



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Taylor
Roux Environmental Eng & Geology DPC
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Generated 12/21/2022 3:12 PM

JOB DESCRIPTION

Inwood - Lot 21

JOB NUMBER

460-270642-1

Eurofins Edison

Job Notes

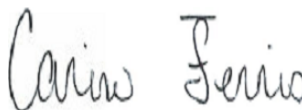
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Authorization



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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Inwood - Lot 21

Report Number: 460-270642-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/2/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

Receipt Exceptions

No TAT recorded on COC.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Samples BCS-21-09_(10-10.5)P (460-270642-1), BCS-21-10_(10-10.5)P (460-270642-2), BCS-21-11_(10-10.5)P (460-270642-3) and BCS-21-12_(10-10.5)P (460-270642-4) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 12/15/2022 and analyzed on 12/16/2022.

d5-NEtFOSAA and M2-8:2 FTS Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for the following samples: (480-204551-A-5-A). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

M2-8:2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: (480-204551-A-5-B MS) and (480-204551-A-5-C MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No other difficulties were encountered during the PFAS analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples BCS-21-09_(10-10.5)P (460-270642-1), BCS-21-10_(10-10.5)P (460-270642-2), BCS-21-11_(10-10.5)P (460-270642-3) and BCS-21-12_(10-10.5)P (460-270642-4) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 12/07/2022.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-270642-1	BCS-21-09_(10-10.5)P	Solid	12/02/22 11:05	12/02/22 18:00
460-270642-2	BCS-21-10_(10-10.5)P	Solid	12/02/22 11:15	12/02/22 18:00
460-270642-3	BCS-21-11_(10-10.5)P	Solid	12/02/22 11:25	12/02/22 18:00
460-270642-4	BCS-21-12_(10-10.5)P	Solid	12/02/22 11:35	12/02/22 18:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-09_(10-10.5)P

Lab Sample ID: 460-270642-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.038	J	0.24	0.034	ug/Kg	1		☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.29		0.24	0.13	ug/Kg	1		☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.056	J	0.24	0.023	ug/Kg	1		☼	537 (modified)	Total/NA

Client Sample ID: BCS-21-10_(10-10.5)P

Lab Sample ID: 460-270642-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.14	J	0.26	0.075	ug/Kg	1		☼	537 (modified)	Total/NA

Client Sample ID: BCS-21-11_(10-10.5)P

Lab Sample ID: 460-270642-3

No Detections.

Client Sample ID: BCS-21-12_(10-10.5)P

Lab Sample ID: 460-270642-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.18	J	0.24	0.071	ug/Kg	1		☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
Moisture	Percent Moisture	EPA	EET BUR
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET 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:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-09_(10-10.5)P

Lab Sample ID: 460-270642-1

Date Collected: 12/02/22 11:05

Matrix: Solid

Date Received: 12/02/22 18:00

Percent Solids: 80.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.61	U	0.61	0.40	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluoropentanoic acid (PFPeA)	0.24	U	0.24	0.067	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.056	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.047	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.070	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.041	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorodecanoic acid (PFDA)	0.038	J	0.24	0.034	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.033	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.030	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.030	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.032	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.040	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.050	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	0.24	0.028	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorooctanesulfonic acid (PFOS)	0.29		0.24	0.13	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorodecanesulfonic acid (PFDS)	0.056	J	0.24	0.023	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Perfluorooctanesulfonamide (FOSA)	0.24	U	0.24	0.041	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.43	U	2.43	0.13	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.43	U	2.43	0.10	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
6:2 FTS	2.43	U	2.43	0.069	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
8:2 FTS	2.43	U	2.43	0.045	ug/Kg	☼	12/15/22 09:16	12/16/22 12:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	91		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C4 PFHpA	96		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C4 PFOA	99		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C4 PFOS	94		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C5 PFNA	98		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C4 PFBA	65		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C2 PFHxA	97		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C2 PFDA	105		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C2 PFUnA	104		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C2 PFDoA	95		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C8 FOSA	87		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C5 PFPeA	87		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C2 PFTeA	91		50 - 150				12/15/22 09:16	12/16/22 12:42	1
d3-NMeFOSAA	95		50 - 150				12/15/22 09:16	12/16/22 12:42	1
d5-NEtFOSAA	94		50 - 150				12/15/22 09:16	12/16/22 12:42	1
M2-6:2 FTS	92		50 - 150				12/15/22 09:16	12/16/22 12:42	1
M2-8:2 FTS	86		50 - 150				12/15/22 09:16	12/16/22 12:42	1
13C3 PFBS	91		50 - 150				12/15/22 09:16	12/16/22 12:42	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-10_(10-10.5)P

Lab Sample ID: 460-270642-2

Date Collected: 12/02/22 11:15

Matrix: Solid

Date Received: 12/02/22 18:00

Percent Solids: 77.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.64	U	0.64	0.42	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.071	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.059	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.050	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorooctanoic acid (PFOA)	0.14	J	0.26	0.075	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.036	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.032	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.032	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.033	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.042	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.053	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.024	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.57	U	2.57	0.14	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.57	U	2.57	0.11	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
6:2 FTS	2.57	U	2.57	0.073	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1
8:2 FTS	2.57	U	2.57	0.048	ug/Kg	☼	12/15/22 09:16	12/16/22 12:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	89		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C4 PFHpA	98		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C4 PFOA	96		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C4 PFOS	88		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C5 PFNA	98		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C4 PFBA	77		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C2 PFHxA	95		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C2 PFDA	103		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C2 PFUnA	98		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C2 PFDoA	95		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C8 FOSA	87		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C5 PFPeA	86		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C2 PFTeA	95		50 - 150	12/15/22 09:16	12/16/22 12:50	1
d3-NMeFOSAA	92		50 - 150	12/15/22 09:16	12/16/22 12:50	1
d5-NEtFOSAA	94		50 - 150	12/15/22 09:16	12/16/22 12:50	1
M2-6:2 FTS	88		50 - 150	12/15/22 09:16	12/16/22 12:50	1
M2-8:2 FTS	92		50 - 150	12/15/22 09:16	12/16/22 12:50	1
13C3 PFBS	85		50 - 150	12/15/22 09:16	12/16/22 12:50	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-11_(10-10.5)P

Lab Sample ID: 460-270642-3

Date Collected: 12/02/22 11:25

Matrix: Solid

Date Received: 12/02/22 18:00

Percent Solids: 79.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.63	U	0.63	0.42	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluoropentanoic acid (PFPeA)	0.25	U	0.25	0.070	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.058	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.049	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.073	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.043	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.035	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.034	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.032	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.032	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.033	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.042	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.052	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluoroheptanesulfonic acid (PFHpS)	0.25	U	0.25	0.029	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorooctanesulfonic acid (PFOS)	0.25	U	0.25	0.14	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorodecanesulfonic acid (PFDS)	0.25	U	0.25	0.024	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
Perfluorooctanesulfonamide (FOSA)	0.25	U	0.25	0.043	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.53	U	2.53	0.14	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.53	U	2.53	0.10	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
6:2 FTS	2.53	U	2.53	0.072	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1
8:2 FTS	2.53	U	2.53	0.047	ug/Kg	☼	12/15/22 09:16	12/16/22 12:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	88		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C4 PFHpA	96		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C4 PFOA	93		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C4 PFOS	90		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C5 PFNA	99		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C4 PFBA	63		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C2 PFHxA	96		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C2 PFDA	101		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C2 PFUnA	102		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C2 PFDoA	99		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C8 FOSA	84		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C5 PFPeA	84		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C2 PFTeA	95		50 - 150	12/15/22 09:16	12/16/22 12:58	1
d3-NMeFOSAA	98		50 - 150	12/15/22 09:16	12/16/22 12:58	1
d5-NEtFOSAA	96		50 - 150	12/15/22 09:16	12/16/22 12:58	1
M2-6:2 FTS	96		50 - 150	12/15/22 09:16	12/16/22 12:58	1
M2-8:2 FTS	92		50 - 150	12/15/22 09:16	12/16/22 12:58	1
13C3 PFBS	89		50 - 150	12/15/22 09:16	12/16/22 12:58	1

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Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-12_(10-10.5)P

Lab Sample ID: 460-270642-4

Date Collected: 12/02/22 11:35

Matrix: Solid

Date Received: 12/02/22 18:00

Percent Solids: 79.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.61	U	0.61	0.40	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluoropentanoic acid (PFPeA)	0.24	U	0.24	0.067	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.056	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.047	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorooctanoic acid (PFOA)	0.18	J	0.24	0.071	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.041	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.034	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.033	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.030	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.030	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.032	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.040	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.050	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	0.24	0.028	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorooctanesulfonic acid (PFOS)	0.24	U	0.24	0.13	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.023	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
Perfluorooctanesulfonamide (FOSA)	0.24	U	0.24	0.041	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.43	U	2.43	0.13	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.43	U	2.43	0.10	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
6:2 FTS	2.43	U	2.43	0.069	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1
8:2 FTS	2.43	U	2.43	0.045	ug/Kg	☼	12/15/22 09:16	12/16/22 13:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	84		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C4 PFHpA	90		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C4 PFOA	95		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C4 PFOS	88		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C5 PFNA	98		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C4 PFBA	76		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C2 PFHxA	90		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C2 PFDA	92		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C2 PFUnA	96		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C2 PFDoA	94		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C8 FOSA	85		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C5 PFPeA	83		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C2 PFTeA	90		50 - 150	12/15/22 09:16	12/16/22 13:06	1
d3-NMeFOSAA	91		50 - 150	12/15/22 09:16	12/16/22 13:06	1
d5-NEtFOSAA	91		50 - 150	12/15/22 09:16	12/16/22 13:06	1
M2-6:2 FTS	85		50 - 150	12/15/22 09:16	12/16/22 13:06	1
M2-8:2 FTS	84		50 - 150	12/15/22 09:16	12/16/22 13:06	1
13C3 PFBS	81		50 - 150	12/15/22 09:16	12/16/22 13:06	1

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Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

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 (50-150)	PFHxA (50-150)	PFDA (50-150)
460-270642-1	BCS-21-09_(10-10.5)P	91	96	99	94	98	65	97	105
460-270642-2	BCS-21-10_(10-10.5)P	89	98	96	88	98	77	95	103
460-270642-3	BCS-21-11_(10-10.5)P	88	96	93	90	99	63	96	101
460-270642-4	BCS-21-12_(10-10.5)P	84	90	95	88	98	76	90	92
480-204551-A-5-B MS	Matrix Spike	85	94	92	84	102	63	93	108
480-204551-A-5-C MSD	Matrix Spike Duplicate	84	92	91	82	99	60	86	105
LCS 200-186742/2-A	Lab Control Sample	90	93	97	93	101	74	96	100
MB 200-186742/1-A	Method Blank	88	94	93	90	101	76	90	105

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFOSA (50-150)	PFPeA (50-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (50-150)
460-270642-1	BCS-21-09_(10-10.5)P	104	95	87	87	91	95	94	92
460-270642-2	BCS-21-10_(10-10.5)P	98	95	87	86	95	92	94	88
460-270642-3	BCS-21-11_(10-10.5)P	102	99	84	84	95	98	96	96
460-270642-4	BCS-21-12_(10-10.5)P	96	94	85	83	90	91	91	85
480-204551-A-5-B MS	Matrix Spike	115	112	81	85	104	127	144	114
480-204551-A-5-C MSD	Matrix Spike Duplicate	110	99	79	82	92	114	133	113
LCS 200-186742/2-A	Lab Control Sample	99	91	87	86	93	96	96	95
MB 200-186742/1-A	Method Blank	96	96	85	81	97	94	93	92

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (50-150)	C3PFBS (50-150)
460-270642-1	BCS-21-09_(10-10.5)P	86	91
460-270642-2	BCS-21-10_(10-10.5)P	92	85
460-270642-3	BCS-21-11_(10-10.5)P	92	89
460-270642-4	BCS-21-12_(10-10.5)P	84	81
480-204551-A-5-B MS	Matrix Spike	162 *	86
480-204551-A-5-C MSD	Matrix Spike Duplicate	152 *	82
LCS 200-186742/2-A	Lab Control Sample	93	90
MB 200-186742/1-A	Method Blank	90	87

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
PFDaA = 13C2 PFDaA
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

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Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC

Job ID: 460-270642-1

Project/Site: Inwood - Lot 21

C3PFBS = 13C3 PFBS

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-186742/1-A

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 186742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
6:2 FTS	2.00	U	2.00	0.057	ug/Kg		12/15/22 09:16	12/16/22 12:26	1
8:2 FTS	2.00	U	2.00	0.037	ug/Kg		12/15/22 09:16	12/16/22 12:26	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	88		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C4 PFHpA	94		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C4 PFOA	93		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C4 PFOS	90		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C5 PFNA	101		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C4 PFBA	76		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C2 PFHxA	90		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C2 PFDA	105		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C2 PFUnA	96		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C2 PFDoA	96		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C8 FOSA	85		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C5 PFPeA	81		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C2 PFTeDA	97		50 - 150	12/15/22 09:16	12/16/22 12:26	1
d3-NMeFOSAA	94		50 - 150	12/15/22 09:16	12/16/22 12:26	1
d5-NEtFOSAA	93		50 - 150	12/15/22 09:16	12/16/22 12:26	1
M2-6:2 FTS	92		50 - 150	12/15/22 09:16	12/16/22 12:26	1
M2-8:2 FTS	90		50 - 150	12/15/22 09:16	12/16/22 12:26	1
13C3 PFBS	87		50 - 150	12/15/22 09:16	12/16/22 12:26	1

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QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

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

Lab Sample ID: LCS 200-186742/2-A

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 186742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	1.944		ug/Kg		97	60 - 140
Perfluoropentanoic acid (PFPeA)	2.00	1.959		ug/Kg		98	60 - 140
Perfluorohexanoic acid (PFHxA)	2.00	1.893		ug/Kg		95	60 - 140
Perfluoroheptanoic acid (PFHpA)	2.00	1.942		ug/Kg		97	60 - 140
Perfluorooctanoic acid (PFOA)	2.00	1.914		ug/Kg		96	60 - 140
Perfluorononanoic acid (PFNA)	2.00	1.975		ug/Kg		99	60 - 140
Perfluorodecanoic acid (PFDA)	2.00	1.925		ug/Kg		96	60 - 140
Perfluoroundecanoic acid (PFUnA)	2.00	1.871		ug/Kg		94	60 - 140
Perfluorododecanoic acid (PFDoA)	2.00	1.900		ug/Kg		95	60 - 140
Perfluorotridecanoic acid (PFTriA)	2.00	2.002		ug/Kg		100	60 - 140
Perfluorotetradecanoic acid (PFTeA)	2.00	1.858		ug/Kg		93	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.77	1.661		ug/Kg		94	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.794		ug/Kg		99	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.899		ug/Kg		100	60 - 140
Perfluorooctanesulfonic acid (PFOS)	1.86	1.725		ug/Kg		93	60 - 140
Perfluorodecanesulfonic acid (PFDS)	1.93	1.775		ug/Kg		92	60 - 140
Perfluorooctanesulfonamide (FOSA)	2.00	1.912		ug/Kg		96	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.035		ug/Kg		102	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.918	J	ug/Kg		96	60 - 140
6:2 FTS	1.90	2.036		ug/Kg		107	50 - 150
8:2 FTS	1.92	1.984	J	ug/Kg		104	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	90		50 - 150
13C4 PFHpA	93		50 - 150
13C4 PFOA	97		50 - 150
13C4 PFOS	93		50 - 150
13C5 PFNA	101		50 - 150
13C4 PFBA	74		50 - 150
13C2 PFHxA	96		50 - 150
13C2 PFDA	100		50 - 150
13C2 PFUnA	99		50 - 150
13C2 PFDoA	91		50 - 150
13C8 FOSA	87		50 - 150
13C5 PFPeA	86		50 - 150
13C2 PFTeDA	93		50 - 150
d3-NMeFOSAA	96		50 - 150
d5-NEtFOSAA	96		50 - 150
M2-6:2 FTS	95		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

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

Lab Sample ID: LCS 200-186742/2-A

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 186742

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
M2-8:2 FTS	93		50 - 150
13C3 PFBS	90		50 - 150

Lab Sample ID: 480-204551-A-5-B MS

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 186742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.52	U	2.06	2.101		ug/Kg	☼	102	60 - 140
Perfluoropentanoic acid (PFPeA)	0.21	U	2.06	2.114		ug/Kg	☼	103	60 - 140
Perfluorohexanoic acid (PFHxA)	0.21	U	2.06	1.953		ug/Kg	☼	95	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.21	U	2.06	1.967		ug/Kg	☼	96	60 - 140
Perfluorooctanoic acid (PFOA)	0.21	U	2.06	2.164		ug/Kg	☼	105	60 - 140
Perfluorononanoic acid (PFNA)	0.21	U	2.06	2.070		ug/Kg	☼	101	60 - 140
Perfluorodecanoic acid (PFDA)	0.21	U	2.06	2.144		ug/Kg	☼	104	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.21	U	2.06	1.885		ug/Kg	☼	92	60 - 140
Perfluorododecanoic acid (PFDoA)	0.21	U	2.06	1.991		ug/Kg	☼	97	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.21	U	2.06	1.946		ug/Kg	☼	94	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.21	U	2.06	2.005		ug/Kg	☼	97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.21	U	1.82	1.753		ug/Kg	☼	96	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	1.87	1.914		ug/Kg	☼	102	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.21	U	1.96	1.996		ug/Kg	☼	102	60 - 140
Perfluorooctanesulfonic acid (PFOS)	0.12	J	1.91	1.960		ug/Kg	☼	103	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.21	U	1.98	1.980		ug/Kg	☼	100	60 - 140
Perfluorooctanesulfonamide (FOSA)	0.21	U	2.06	1.994		ug/Kg	☼	97	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	U	2.06	2.083		ug/Kg	☼	101	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.09	U	2.06	1.938	J	ug/Kg	☼	94	60 - 140
6:2 FTS	2.09	U	1.95	2.105		ug/Kg	☼	108	50 - 150
8:2 FTS	2.09	U	1.97	2.078		ug/Kg	☼	105	60 - 140

	MS	MS	
Isotope Dilution	%Recovery	Qualifier	Limits
18O2 PFHxS	85		50 - 150
13C4 PFHpA	94		50 - 150
13C4 PFOA	92		50 - 150
13C4 PFOS	84		50 - 150
13C5 PFNA	102		50 - 150
13C4 PFBA	63		50 - 150
13C2 PFHxA	93		50 - 150
13C2 PFDA	108		50 - 150
13C2 PFUnA	115		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

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

Lab Sample ID: 480-204551-A-5-B MS

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 186742

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2 PFD _o A	112		50 - 150
13C8 FOSA	81		50 - 150
13C5 PFPeA	85		50 - 150
13C2 PFTeDA	104		50 - 150
d3-NMeFOSAA	127		50 - 150
d5-NEtFOSAA	144		50 - 150
M2-6:2 FTS	114		50 - 150
M2-8:2 FTS	162 *		50 - 150
13C3 PFBS	86		50 - 150

Lab Sample ID: 480-204551-A-5-C MSD

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 186742

<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 Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Perfluorobutanoic acid (PFBA)	0.52	U	2.09	2.090		ug/Kg	☼	100	60 - 140	1	30
Perfluoropentanoic acid (PFPeA)	0.21	U	2.09	2.122		ug/Kg	☼	102	60 - 140	0	30
Perfluorohexanoic acid (PFHxA)	0.21	U	2.09	2.072		ug/Kg	☼	99	60 - 140	6	30
Perfluoroheptanoic acid (PFHpA)	0.21	U	2.09	2.009		ug/Kg	☼	96	60 - 140	2	30
Perfluorooctanoic acid (PFOA)	0.21	U	2.09	2.112		ug/Kg	☼	101	60 - 140	2	30
Perfluorononanoic acid (PFNA)	0.21	U	2.09	2.064		ug/Kg	☼	99	60 - 140	0	30
Perfluorodecanoic acid (PFDA)	0.21	U	2.09	2.048		ug/Kg	☼	98	60 - 140	5	30
Perfluoroundecanoic acid (PFUnA)	0.21	U	2.09	2.034		ug/Kg	☼	97	60 - 140	8	30
Perfluorododecanoic acid (PFDoA)	0.21	U	2.09	2.034		ug/Kg	☼	97	60 - 140	2	30
Perfluorotridecanoic acid (PFTriA)	0.21	U	2.09	1.900		ug/Kg	☼	91	60 - 140	2	30
Perfluorotetradecanoic acid (PFTeA)	0.21	U	2.09	1.994		ug/Kg	☼	96	60 - 140	1	30
Perfluorobutanesulfonic acid (PFBS)	0.21	U	1.85	1.757		ug/Kg	☼	95	60 - 140	0	30
Perfluorohexanesulfonic acid (PFHxS)	0.21	U	1.90	1.903		ug/Kg	☼	100	60 - 140	1	30
Perfluoroheptanesulfonic acid (PFHpS)	0.21	U	1.99	2.003		ug/Kg	☼	101	60 - 140	0	30
Perfluorooctanesulfonic acid (PFOS)	0.12	J	1.94	1.940		ug/Kg	☼	100	60 - 140	1	30
Perfluorodecanesulfonic acid (PFDS)	0.21	U	2.01	1.923		ug/Kg	☼	96	60 - 140	3	30
Perfluorooctanesulfonamide (FOSA)	0.21	U	2.09	2.014		ug/Kg	☼	96	60 - 140	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	U	2.09	2.186		ug/Kg	☼	105	60 - 140	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.09	U	2.09	1.992	J	ug/Kg	☼	95	60 - 140	3	30
6:2 FTS	2.09	U	1.98	2.117		ug/Kg	☼	107	50 - 150	1	30
8:2 FTS	2.09	U	2.00	2.090		ug/Kg	☼	105	60 - 140	1	30

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
18O2 PFHxS	84		50 - 150
13C4 PFHpA	92		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

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

Lab Sample ID: 480-204551-A-5-C MSD

Matrix: Solid

Analysis Batch: 186802

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 186742

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	91		50 - 150
13C4 PFOS	82		50 - 150
13C5 PFNA	99		50 - 150
13C4 PFBA	60		50 - 150
13C2 PFHxA	86		50 - 150
13C2 PFDA	105		50 - 150
13C2 PFUnA	110		50 - 150
13C2 PFDoA	99		50 - 150
13C8 FOSA	79		50 - 150
13C5 PFPeA	82		50 - 150
13C2 PFTeDA	92		50 - 150
d3-NMeFOSAA	114		50 - 150
d5-NEtFOSAA	133		50 - 150
M2-6:2 FTS	113		50 - 150
M2-8:2 FTS	152	*	50 - 150
13C3 PFBS	82		50 - 150

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

LCMS

Prep Batch: 186742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-270642-1	BCS-21-09_(10-10.5)P	Total/NA	Solid	SHAKE	
460-270642-2	BCS-21-10_(10-10.5)P	Total/NA	Solid	SHAKE	
460-270642-3	BCS-21-11_(10-10.5)P	Total/NA	Solid	SHAKE	
460-270642-4	BCS-21-12_(10-10.5)P	Total/NA	Solid	SHAKE	
MB 200-186742/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-186742/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-204551-A-5-B MS	Matrix Spike	Total/NA	Solid	SHAKE	
480-204551-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	SHAKE	

Analysis Batch: 186802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-270642-1	BCS-21-09_(10-10.5)P	Total/NA	Solid	537 (modified)	186742
460-270642-2	BCS-21-10_(10-10.5)P	Total/NA	Solid	537 (modified)	186742
460-270642-3	BCS-21-11_(10-10.5)P	Total/NA	Solid	537 (modified)	186742
460-270642-4	BCS-21-12_(10-10.5)P	Total/NA	Solid	537 (modified)	186742
MB 200-186742/1-A	Method Blank	Total/NA	Solid	537 (modified)	186742
LCS 200-186742/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	186742
480-204551-A-5-B MS	Matrix Spike	Total/NA	Solid	537 (modified)	186742
480-204551-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	537 (modified)	186742

General Chemistry

Analysis Batch: 186481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-270642-1	BCS-21-09_(10-10.5)P	Total/NA	Solid	Moisture	
460-270642-2	BCS-21-10_(10-10.5)P	Total/NA	Solid	Moisture	
460-270642-3	BCS-21-11_(10-10.5)P	Total/NA	Solid	Moisture	
460-270642-4	BCS-21-12_(10-10.5)P	Total/NA	Solid	Moisture	
460-270642-4 DU	BCS-21-12_(10-10.5)P	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-09_(10-10.5)P

Date Collected: 12/02/22 11:05

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	186481	RWM	EET BUR	12/07/22 15:54

Client Sample ID: BCS-21-09_(10-10.5)P

Date Collected: 12/02/22 11:05

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-1

Matrix: Solid

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			186742	KFW	EET BUR	12/15/22 09:16
Total/NA	Analysis	537 (modified)		1	186802	ND	EET BUR	12/16/22 12:42

Client Sample ID: BCS-21-10_(10-10.5)P

Date Collected: 12/02/22 11:15

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	186481	RWM	EET BUR	12/07/22 15:54

Client Sample ID: BCS-21-10_(10-10.5)P

Date Collected: 12/02/22 11:15

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-2

Matrix: Solid

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			186742	KFW	EET BUR	12/15/22 09:16
Total/NA	Analysis	537 (modified)		1	186802	ND	EET BUR	12/16/22 12:50

Client Sample ID: BCS-21-11_(10-10.5)P

Date Collected: 12/02/22 11:25

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	186481	RWM	EET BUR	12/07/22 15:54

Client Sample ID: BCS-21-11_(10-10.5)P

Date Collected: 12/02/22 11:25

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-3

Matrix: Solid

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			186742	KFW	EET BUR	12/15/22 09:16
Total/NA	Analysis	537 (modified)		1	186802	ND	EET BUR	12/16/22 12:58

Client Sample ID: BCS-21-12_(10-10.5)P

Date Collected: 12/02/22 11:35

Date Received: 12/02/22 18:00

Lab Sample ID: 460-270642-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	186481	RWM	EET BUR	12/07/22 15:54

Eurofins Edison

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Client Sample ID: BCS-21-12_(10-10.5)P

Lab Sample ID: 460-270642-4

Date Collected: 12/02/22 11:35

Matrix: Solid

Date Received: 12/02/22 18:00

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			186742	KFW	EET BUR	12/15/22 09:16
Total/NA	Analysis	537 (modified)		1	186802	ND	EET BUR	12/16/22 13:06

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-270642-1

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-23
Wisconsin	State	399133350	08-31-23

Method PFC IDA

Fluorinated Hydrocarbons by Method
PFAS IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Matrix: Solid 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 #
BCS-21-09_(10-10.5) P	460-270642-1	65	87	91	97	91	96	92	99
BCS-21-10_(10-10.5) P	460-270642-2	77	86	85	95	89	98	88	96
BCS-21-11_(10-10.5) P	460-270642-3	63	84	89	96	88	96	96	93
BCS-21-12_(10-10.5) P	460-270642-4	76	83	81	90	84	90	85	95
	MB 200-186742/1-A	76	81	87	90	88	94	92	93
	LCS 200-186742/2-A	74	86	90	96	90	93	95	97
	480-204551-A-5-B MS	63	85	86	93	85	94	114	92
	480-204551-A-5-C MSD	60	82	82	86	84	92	113	91

	<u>QC LIMITS</u>
PFBA = 13C4 PFBA	50-150
PFPeA = 13C5 PFPeA	50-150
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	50-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Matrix: Solid 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 #
BCS-21-09_(10-10.5) P	460-270642-1	94	98	105	86	87	95	104	94
BCS-21-10_(10-10.5) P	460-270642-2	88	98	103	92	87	92	98	94
BCS-21-11_(10-10.5) P	460-270642-3	90	99	101	92	84	98	102	96
BCS-21-12_(10-10.5) P	460-270642-4	88	98	92	84	85	91	96	91
	MB 200-186742/1-A	90	101	105	90	85	94	96	93
	LCS 200-186742/2-A	93	101	100	93	87	96	99	96
	480-204551-A-5-B MS	84	102	108	162 *	81	127	115	144
	480-204551-A-5-C MSD	82	99	105	152 *	79	114	110	133

	<u>QC LIMITS</u>
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	50-150
PFOSA = 13C8 FOSA	50-150
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
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
SDG No.: _____
Matrix: Solid Level: Low
GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFD _o A #	PFTDA #
BCS-21-09_(10-10.5))P	460-270642-1	95	91
BCS-21-10_(10-10.5))P	460-270642-2	95	95
BCS-21-11_(10-10.5))P	460-270642-3	99	95
BCS-21-12_(10-10.5))P	460-270642-4	94	90
	MB 200-186742/1-A	96	97
	LCS 200-186742/2-A	91	93
	480-204551-A-5-B MS	112	104
	480-204551-A-5-C MSD	99	92

PFD_oA = 13C2 PFD_oA
PFTDA = 13C2 PFTeDA

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221216A07.d
 Lab ID: LCS 200-186742/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	1.944	97	60-140	
Perfluoropentanoic acid (PFPeA)	2.00	1.959	98	60-140	
Perfluorohexanoic acid (PFHxA)	2.00	1.893	95	60-140	
Perfluoroheptanoic acid (PFHpA)	2.00	1.942	97	60-140	
Perfluorooctanoic acid (PFOA)	2.00	1.914	96	60-140	
Perfluorononanoic acid (PFNA)	2.00	1.975	99	60-140	
Perfluorodecanoic acid (PFDA)	2.00	1.925	96	60-140	
Perfluoroundecanoic acid (PFUnA)	2.00	1.871	94	60-140	
Perfluorododecanoic acid (PFDoA)	2.00	1.900	95	60-140	
Perfluorotridecanoic acid (PFTriA)	2.00	2.002	100	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.00	1.858	93	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.661	94	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.794	99	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.899	100	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.725	93	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.775	92	60-140	
Perfluorooctanesulfonamide (FOSA)	2.00	1.912	96	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.035	102	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.918 J	96	60-140	
6:2 FTS	1.90	2.036	107	50-150	
8:2 FTS	1.92	1.984 J	104	60-140	
18O2 PFHxS	2.37	2.139	90	50-150	
13C4 PFHpA	2.50	2.335	93	50-150	
13C4 PFOA	2.50	2.430	97	50-150	
13C4 PFOS	2.39	2.222	93	50-150	
13C5 PFNA	2.50	2.536	101	50-150	
13C4 PFBA	2.50	1.848	74	50-150	
13C2 PFHxA	2.50	2.396	96	50-150	
13C2 PFDA	2.50	2.490	100	50-150	
13C2 PFUnA	2.50	2.473	99	50-150	
13C2 PFDoA	2.50	2.269	91	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: PA221216A07.d
Lab ID: LCS 200-186742/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C8 FOSA	2.50	2.171	87	50-150	
13C5 PFPeA	2.50	2.138	86	50-150	
13C2 PFTeDA	2.50	2.324	93	50-150	
d3-NMeFOSAA	2.50	2.407	96	50-150	
d5-NEtFOSAA	2.50	2.396	96	50-150	
M2-6:2 FTS	2.38	2.245	95	50-150	
M2-8:2 FTS	2.40	2.229	93	50-150	
13C3 PFBS	2.33	2.099	90	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221216A15.d
 Lab ID: 480-204551-A-5-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.06	0.52 U	2.101	102	60-140	
Perfluoropentanoic acid (PFPeA)	2.06	0.21 U	2.114	103	60-140	
Perfluorohexanoic acid (PFHxA)	2.06	0.21 U	1.953	95	60-140	
Perfluoroheptanoic acid (PFHpA)	2.06	0.21 U	1.967	96	60-140	
Perfluorooctanoic acid (PFOA)	2.06	0.21 U	2.164	105	60-140	
Perfluorononanoic acid (PFNA)	2.06	0.21 U	2.070	101	60-140	
Perfluorodecanoic acid (PFDA)	2.06	0.21 U	2.144	104	60-140	
Perfluoroundecanoic acid (PFUnA)	2.06	0.21 U	1.885	92	60-140	
Perfluorododecanoic acid (PFDoA)	2.06	0.21 U	1.991	97	60-140	
Perfluorotridecanoic acid (PFTrIA)	2.06	0.21 U	1.946	94	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.06	0.21 U	2.005	97	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.82	0.21 U	1.753	96	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.87	0.21 U	1.914	102	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.96	0.21 U	1.996	102	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.91	0.12 J	1.960	103	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.98	0.21 U	1.980	100	60-140	
Perfluorooctanesulfonamide (FOSA)	2.06	0.21 U	1.994	97	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.06	2.09 U	2.083	101	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.06	2.09 U	1.938 J	94	60-140	
6:2 FTS	1.95	2.09 U	2.105	108	50-150	
8:2 FTS	1.97	2.09 U	2.078	105	60-140	
18O2 PFHxS	2.43	2.09	2.068	85	50-150	
13C4 PFHpA	2.57	2.42	2.412	94	50-150	
13C4 PFOA	2.57	2.37	2.366	92	50-150	
13C4 PFOS	2.46	2.17	2.068	84	50-150	
13C5 PFNA	2.57	2.74	2.625	102	50-150	
13C4 PFBA	2.57	1.73	1.610	63	50-150	
13C2 PFHxA	2.57	2.40	2.397	93	50-150	
13C2 PFDA	2.57	2.84	2.771	108	50-150	
13C2 PFUnA	2.57	3.03	2.957	115	50-150	
13C2 PFDoA	2.57	3.19	2.875	112	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221216A15.d
 Lab ID: 480-204551-A-5-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C8 FOSA	2.57	2.14	2.092	81	50-150	
13C5 PFPeA	2.57	2.24	2.179	85	50-150	
13C2 PFTeDA	2.57	2.78	2.668	104	50-150	
d3-NMeFOSAA	2.57	3.04	3.258	127	50-150	
d5-NEtFOSAA	2.57	4.00	3.714	144	50-150	
M2-6:2 FTS	2.44	3.01	2.783	114	50-150	
M2-8:2 FTS	2.47	4.04	3.988	162	50-150	*
13C3 PFBS	2.39	2.05	2.051	86	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: PA221216A16.d

Lab ID: 480-204551-A-5-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	2.09	2.090	100	1	30	60-140	
Perfluoropentanoic acid (PFPeA)	2.09	2.122	102	0	30	60-140	
Perfluorohexanoic acid (PFHxA)	2.09	2.072	99	6	30	60-140	
Perfluoroheptanoic acid (PFHpA)	2.09	2.009	96	2	30	60-140	
Perfluorooctanoic acid (PFOA)	2.09	2.112	101	2	30	60-140	
Perfluorononanoic acid (PFNA)	2.09	2.064	99	0	30	60-140	
Perfluorodecanoic acid (PFDA)	2.09	2.048	98	5	30	60-140	
Perfluoroundecanoic acid (PFUnA)	2.09	2.034	97	8	30	60-140	
Perfluorododecanoic acid (PFDoA)	2.09	2.034	97	2	30	60-140	
Perfluorotridecanoic acid (PFTrIA)	2.09	1.900	91	2	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.09	1.994	96	1	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.85	1.757	95	0	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.90	1.903	100	1	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.99	2.003	101	0	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.94	1.940	100	1	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.01	1.923	96	3	30	60-140	
Perfluorooctanesulfonamide (FOSA)	2.09	2.014	96	1	30	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.09	2.186	105	5	30	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.09	1.992 J	95	3	30	60-140	
6:2 FTS	1.98	2.117	107	1	30	50-150	
8:2 FTS	2.00	2.090	105	1	30	60-140	
18O2 PFHxS	2.47	2.063	84			50-150	
13C4 PFHpA	2.61	2.388	92			50-150	
13C4 PFOA	2.61	2.382	91			50-150	
13C4 PFOS	2.49	2.055	82			50-150	
13C5 PFNA	2.61	2.576	99			50-150	
13C4 PFBA	2.61	1.557	60			50-150	
13C2 PFHxA	2.61	2.252	86			50-150	
13C2 PFDA	2.61	2.734	105			50-150	
13C2 PFUnA	2.61	2.883	110			50-150	
13C2 PFDoA	2.61	2.576	99			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221216A16.d
 Lab ID: 480-204551-A-5-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C8 FOSA	2.61	2.063	79			50-150	
13C5 PFPeA	2.61	2.130	82			50-150	
13C2 PFTeDA	2.61	2.406	92			50-150	
d3-NMeFOSAA	2.61	2.982	114			50-150	
d5-NEtFOSAA	2.61	3.472	133			50-150	
M2-6:2 FTS	2.48	2.799	113			50-150	
M2-8:2 FTS	2.50	3.800	152			50-150	*
13C3 PFBS	2.43	1.996	82			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Lab File ID: PA221216A06.d Lab Sample ID: MB 200-186742/1-A
 Matrix: Solid Date Extracted: 12/15/2022 09:16
 Instrument ID: LC812 Date Analyzed: 12/16/2022 12:26
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-186742/2-A	PA221216A07 .d	12/16/2022 12:34
BCS-21-09_(10-10.5)P	460-270642-1	PA221216A08 .d	12/16/2022 12:42
BCS-21-10_(10-10.5)P	460-270642-2	PA221216A09 .d	12/16/2022 12:50
BCS-21-11_(10-10.5)P	460-270642-3	PA221216A10 .d	12/16/2022 12:58
BCS-21-12_(10-10.5)P	460-270642-4	PA221216A11 .d	12/16/2022 13:06
	480-204551-A-5-B MS	PA221216A15 .d	12/16/2022 13:39
	480-204551-A-5-C MSD	PA221216A16 .d	12/16/2022 13:47

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Instrument ID: LC812 Calibration Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.6 (mm) Calibration End Date: 11/18/2022 15:10
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		2300897	3.45				
UPPER LIMIT		3451346	3.65				
LOWER LIMIT		1150449	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-185958/11		2270634	3.45				
ICV 200-185958/12		2902090	3.45				
CCB 200-186802/4		2566482	3.46				
CCVLIS 200-186802/5		2744555	3.47				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Sample No.: CCVLIS 200-186802/5 Date Analyzed: 12/16/2022 12:17
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA221216A05.d Heated Purge: (Y/N) N
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		2744555	3.47				
UPPER LIMIT		4116833	3.67				
LOWER LIMIT		1372278	3.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-186742/1-A		2534161	3.46				
LCS 200-186742/2-A		2455815	3.46				
460-270642-1	BCS-21-09_(10-10.5)P	2386783	3.47				
460-270642-2	BCS-21-10_(10-10.5)P	2463055	3.46				
460-270642-3	BCS-21-11_(10-10.5)P	2605734	3.46				
460-270642-4	BCS-21-12_(10-10.5)P	2606436	3.45				
480-204551-A-5-B MS		2602921	3.46				
480-204551-A-5-C MSD		2829660	3.46				
CCV 200-186802/20		2603411	3.46				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: BCS-21-09_(10-10.5)P Lab Sample ID: 460-270642-1

Matrix: Solid Lab File ID: PA221216A08.d

Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:05

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.15(g) Date Analyzed: 12/16/2022 12:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 20.0 % Solids: 80.0 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.61	U	0.61	0.40
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.24	U	0.24	0.067
307-24-4	Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.056
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.070
375-95-1	Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.041
335-76-2	Perfluorodecanoic acid (PFDA)	0.038	J	0.24	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.030
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.032
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.050
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	0.24	0.028
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.29		0.24	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.056	J	0.24	0.023
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.24	U	0.24	0.041
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.43	U	2.43	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.43	U	2.43	0.10
27619-97-2	6:2 FTS	2.43	U	2.43	0.069
39108-34-4	8:2 FTS	2.43	U	2.43	0.045

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>460-270642-1</u>
SDG No.: _____	
Client Sample ID: <u>BCS-21-09_(10-10.5)P</u>	Lab Sample ID: <u>460-270642-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>PA221216A08.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>12/02/2022 11:05</u>
Extraction Method: <u>SHAKE</u>	Date Extracted: <u>12/15/2022 09:16</u>
Sample wt/vol: <u>5.15(g)</u>	Date Analyzed: <u>12/16/2022 12:42</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20(uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: <u>20.0</u> % Solids: <u>80.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>186802</u>	Units: <u>ug/Kg</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	91		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	99		50-150
STL00991	13C4 PFOS	94		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	65		50-150
STL00993	13C2 PFHxA	97		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	104		50-150
STL00998	13C2 PFDoA	95		50-150
STL01056	13C8 FOSA	87		50-150
STL01893	13C5 PFPeA	87		50-150
STL02116	13C2 PFTeDA	91		50-150
STL02118	d3-NMeFOSAA	95		50-150
STL02117	d5-NEtFOSAA	94		50-150
STL02279	M2-6:2 FTS	92		50-150
STL02280	M2-8:2 FTS	86		50-150
STL02337	13C3 PFBS	91		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
 Lims ID: 460-270642-A-1-A
 Client ID: BCS-21-09_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Dec-2022 12:42:21 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-270642-A-1-A
 Misc. Info.: 200-0053717-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 09:33:40

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	2.085	2.076	0.009	0.602	1739068	0.8120		65.0	6142	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.004	61555	0.0429			5.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.387	0.013	0.693	1767335	1.08		86.7	2463	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.387	0.013	1.000	35947	0.0233			0.8	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.400	0.013	0.696	1864865	1.05		90.5	212936	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.000	4051	0.002207	Target=2.09		5.3	M
298.90 > 99.00	2.427	2.400	0.027	1.006	1504		2.69(1.04-3.13)		0.7	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.790	2069280	1.21		96.9	4238	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	31089	0.0172	Target=14.25		5.7	M
313.00 > 119.00	2.738	2.725	0.013	1.000	1831		16.98(7.12-21.37)		4.5	
D 11 18O2 PFHxS										M
403.00 > 84.00	3.110	3.088	0.022	0.897	1395480	1.08		91.4	2501	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.110	3.088	0.022	1.000	7362	0.005527	Target=3.66		22.7	M
399.00 > 99.00	3.132	3.088	0.044	1.007	2379		3.09(1.83-5.49)		3.1	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.110	3.099	0.011	0.897	2119386	1.21		96.5	3806	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.110	3.099	0.011	1.000	14881	0.008061	Target=3.97		3.2	M
363.00 > 169.00	3.110	3.099	0.011	1.000	4549		3.27(1.98-5.95)		11.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.448	3.439	0.009	0.995	235612	1.09		91.6	552	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.448	3.439	0.009	1.000	1397	-0.008540			4.6	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.448	3.439	0.009	0.914	807	0.000705	Target=5.14		4.1	M
449.00 > 99.00	3.439	3.439	0.0	0.911	243		3.32(2.57-7.72)		1.5	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.465	3.448	0.017	1.000	2439898	1.23		98.8	2732	M
* 62 13C2 PFOA										
415.00 > 370.00	3.465	3.448	0.017		2386783	1.25			5684	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.465	3.448	0.017	1.000	59428	0.0285	Target=2.79		4.2	M
413.00 > 169.00	3.465	3.448	0.017	1.000	18982		3.13(1.40-4.19)		37.6	M
D 18 13C4 PFOS										
503.00 > 80.00	3.773	3.764	0.009	1.089	979048	1.12		93.5	2757	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.773	3.764	0.009	1.000	120664	0.1211	Target=5.11		172	M
499.00 > 99.00	3.773	3.764	0.009	1.000	26316		4.59(2.55-7.66)		68.6	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.792	3.783	0.009	1.000	22374	0.0115	Target=8.55		5.2	M
463.00 > 169.00	3.783	3.783	0.0	0.997	2440		9.17(4.28-12.83)		22.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.792	3.783	0.009	1.094	2350533	1.22		97.9	3950	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.178	2565519	1.31		105	3613	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.081	4.081	0.0	1.000	34635	0.0156	Target=10.26		13.0	M
513.00 > 169.00	4.081	4.081	0.0	1.000	2869		12.07(5.13-15.38)		10.8	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.181	272810	1.03		86.0	706	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	0.997	410	0.001113			5.9	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.150	0.0	1.003	2137	0.001460			9.7	M
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.194	1751569	1.09		87.3	2080	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.220	472241	1.19		94.8	1856	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	730	-0.009381			3.6	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.319	4.331	-0.012	1.145	13758	0.0232	Target=2.51		13.3	M
599.00 > 99.00	4.319	4.331	-0.012	1.145	6136		2.24(1.25-3.76)		20.0	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.256	2321340	1.30		104	3679	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	7140	0.003815	Target=9.88		3.0	M
563.00 > 169.00	4.342	4.353	-0.011	0.997	646		11.05(4.94-14.82)		7.8	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	1282	0.003891			12.9	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.260	460000	1.17		93.8	974	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	4328	0.002367	Target=7.77		0.5	M
613.00 > 169.00	4.591	4.591	0.0	1.000	676		6.40(3.89-11.66)		7.6	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.325	2157475	1.18		94.5	4051	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.804	4.804	0.0	1.046	4092	0.002340	Target=5.21		0.5	M
663.00 > 169.00	4.804	4.804	0.0	1.046	635		6.44(2.60-7.81)		4.5	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	520	0.002655	Target=0.89		3.9	M
713.00 > 219.00	5.012	5.012	0.0	1.000	618		0.84(0.44-1.33)		9.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.446	1788067	1.13		90.6	5063	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d

Injection Date: 16-Dec-2022 12:42:21

Instrument ID: LC812

Lims ID: 460-270642-A-1-A

Lab Sample ID: 200-270642-1

Client ID: BCS-21-09_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

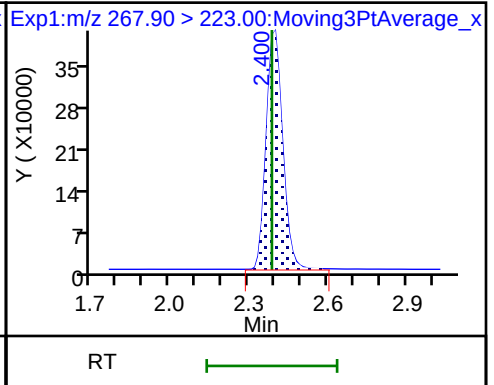
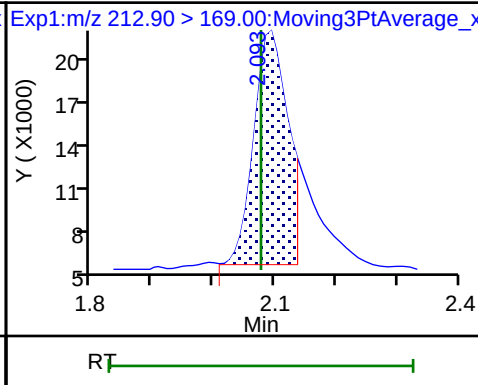
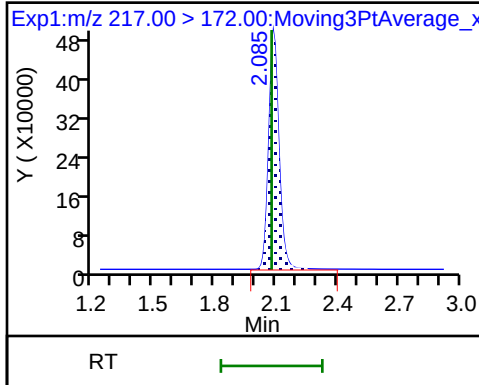
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

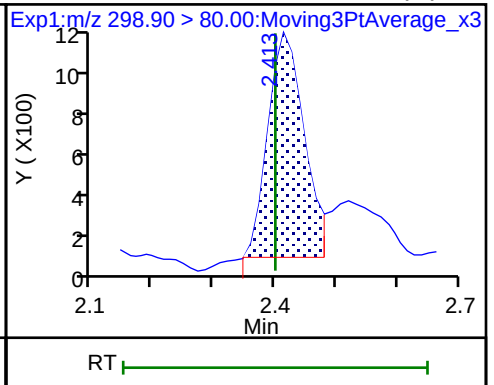
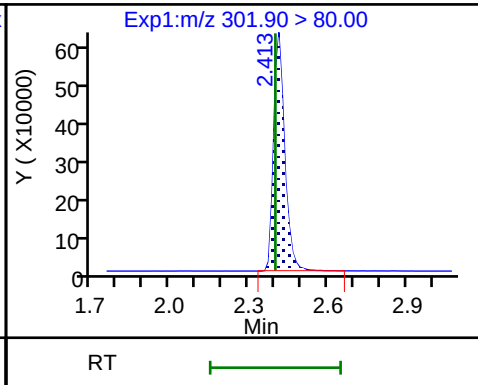
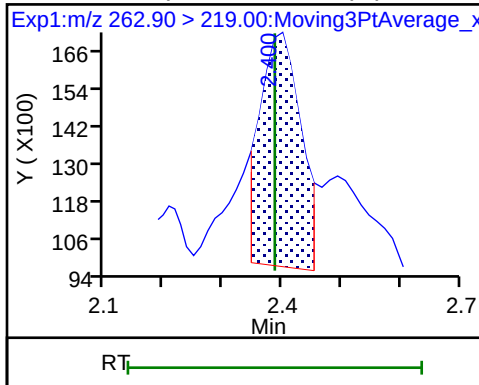
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

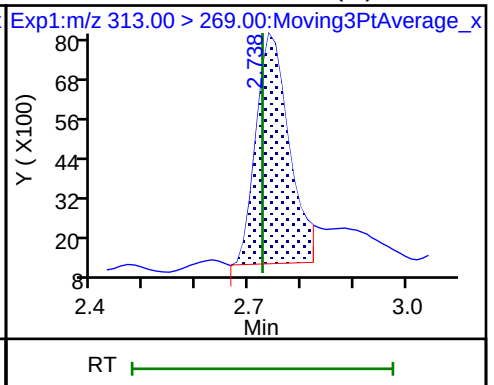
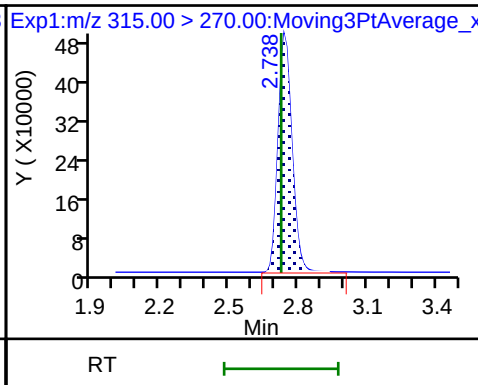
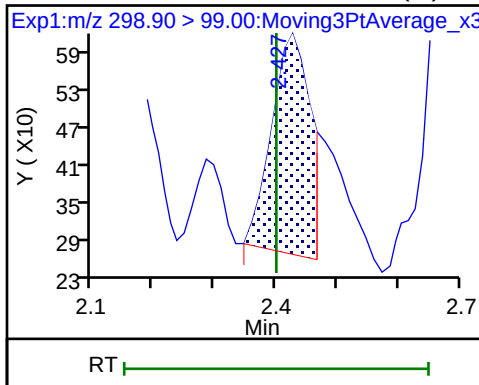
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

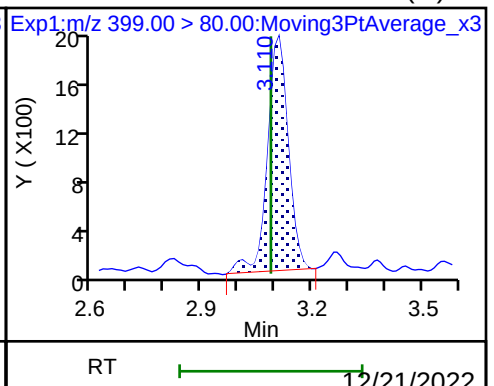
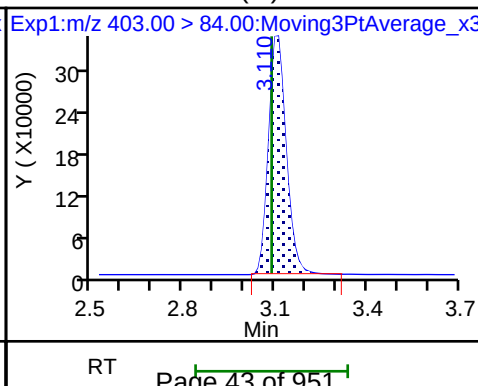
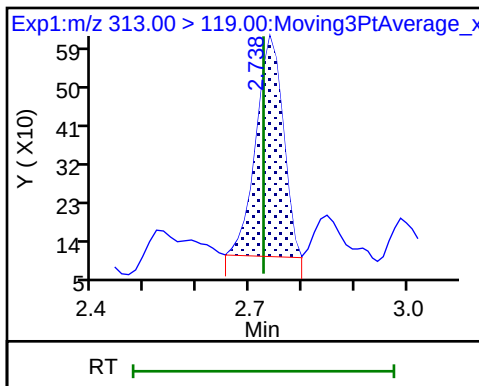
6 Perfluorohexanoic acid (M)

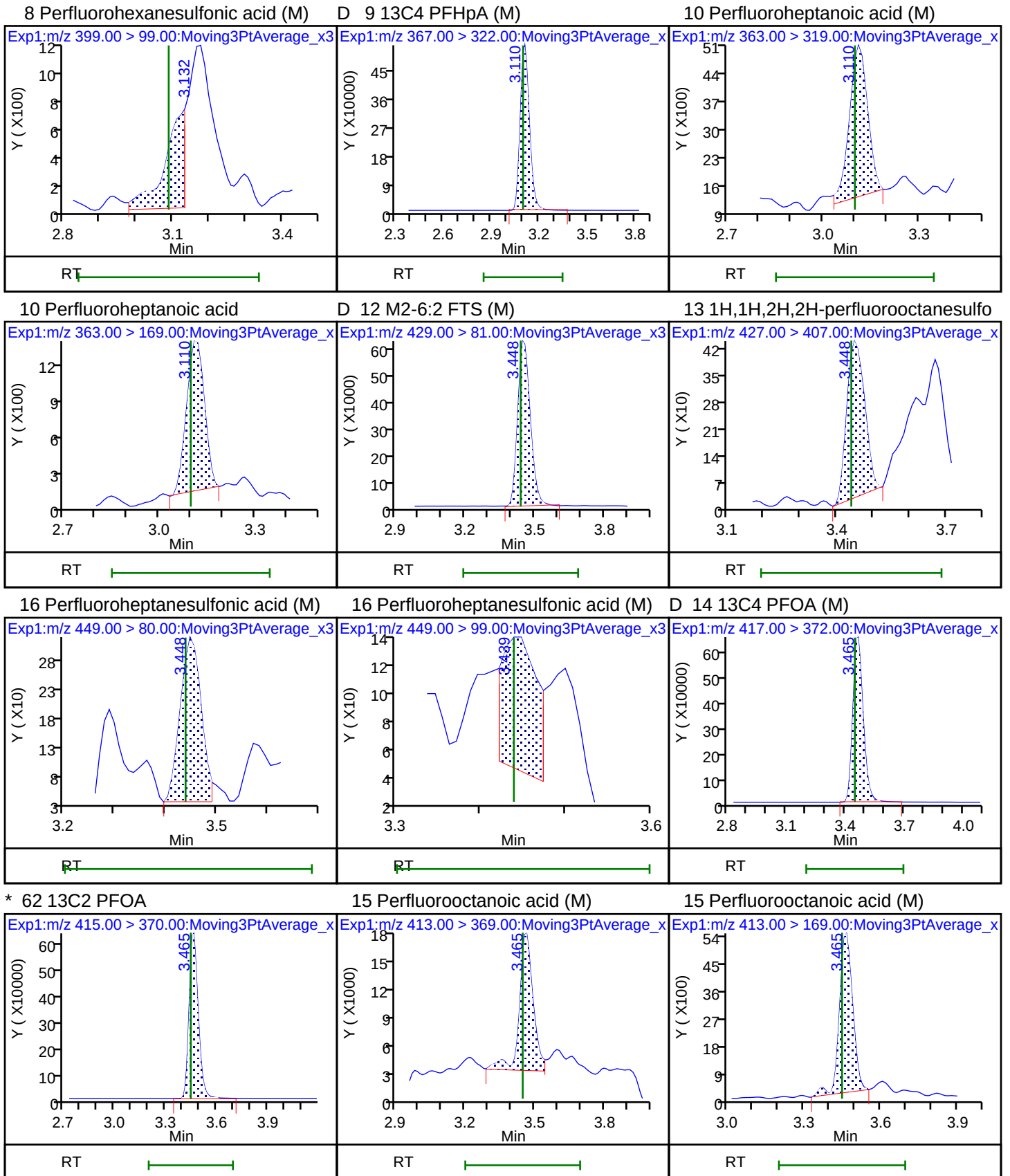


6 Perfluorohexanoic acid

D 11 18O2 PFHxS (M)

8 Perfluorohexanesulfonic acid (M)

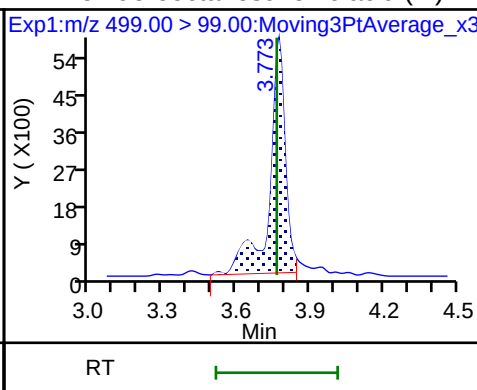
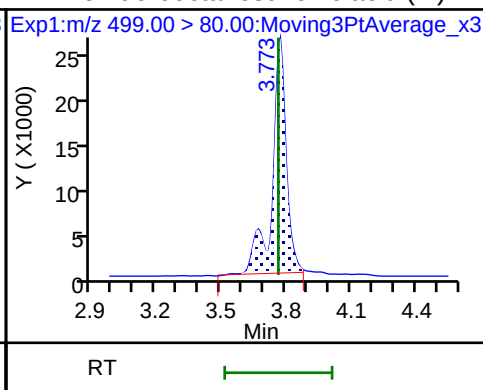
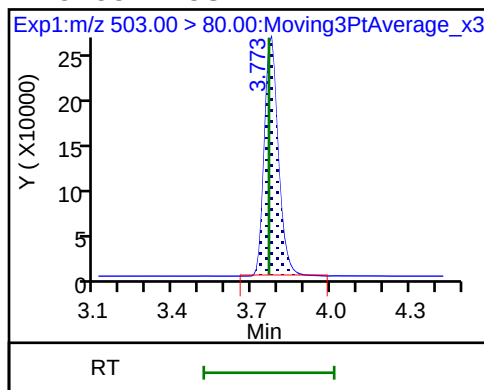




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

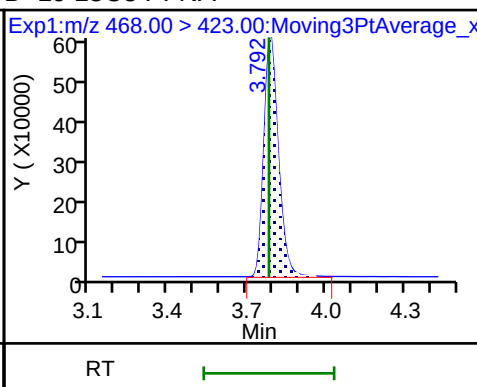
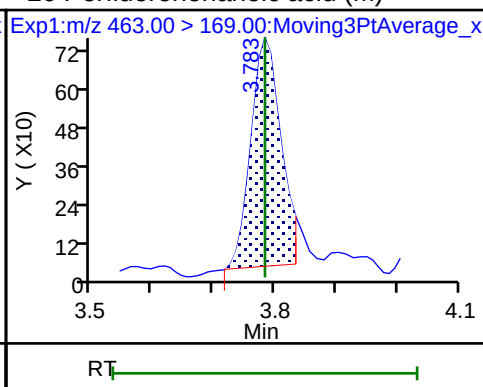
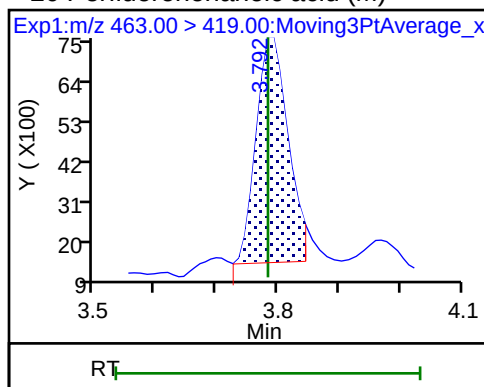
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

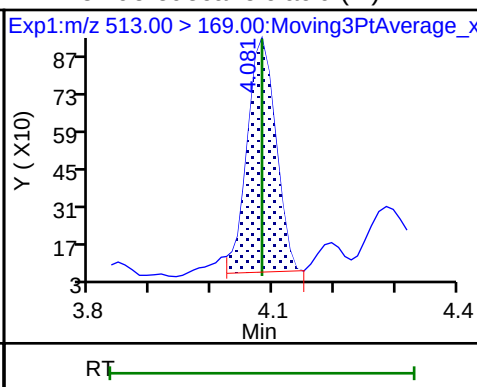
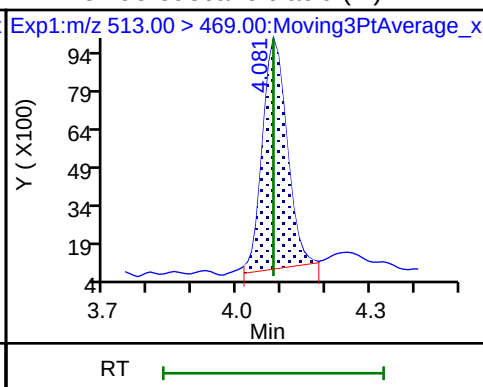
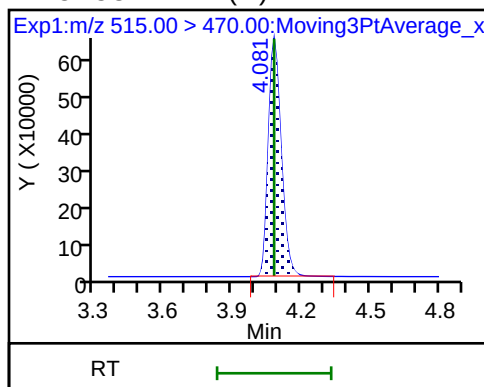
D 19 13C5 PFNA



D 23 13C2 PFDA (M)

24 Perfluorodecanoic acid (M)

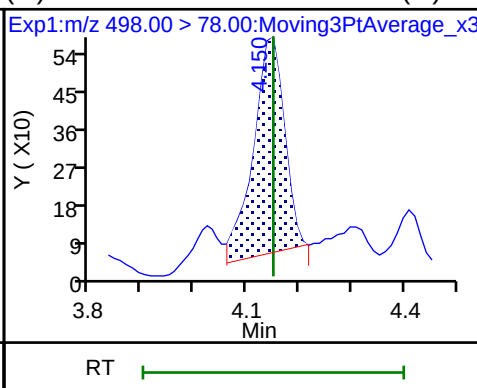
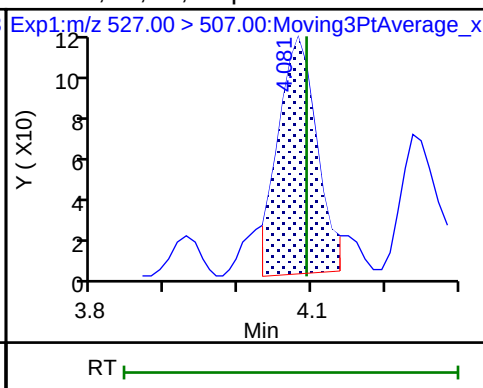
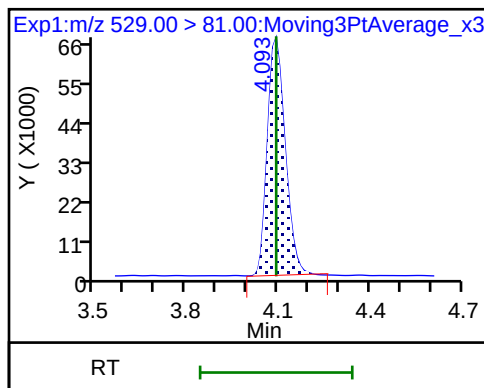
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

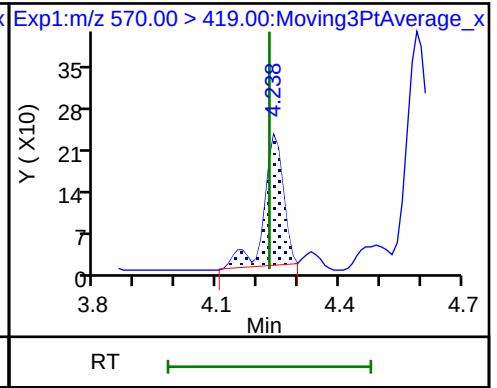
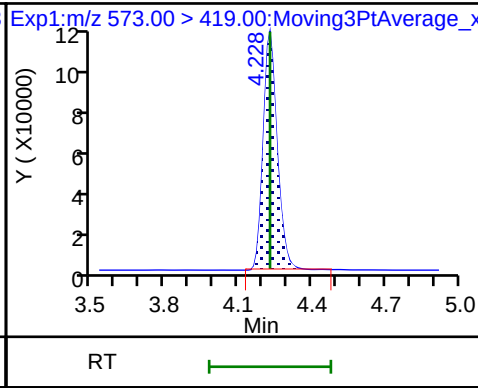
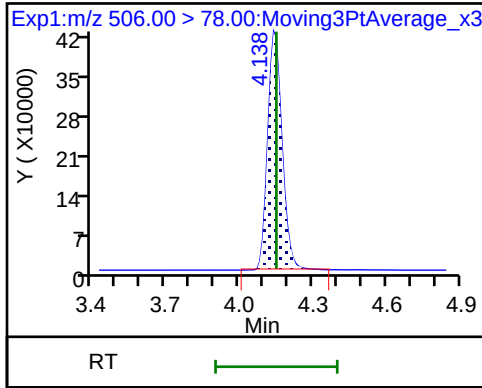
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

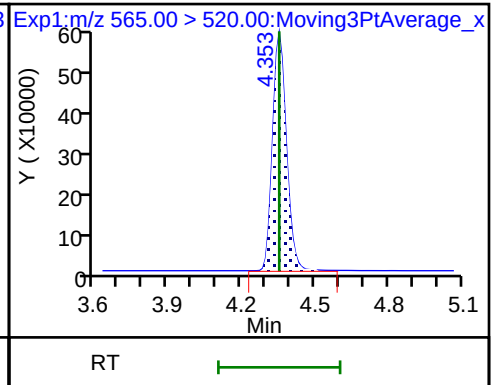
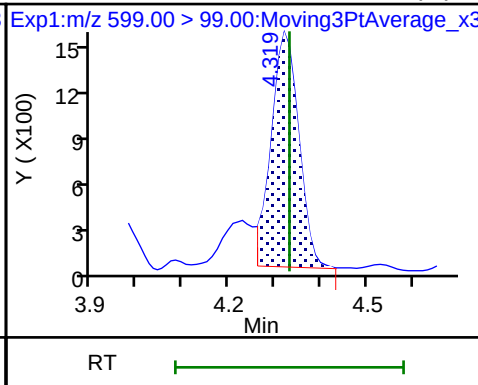
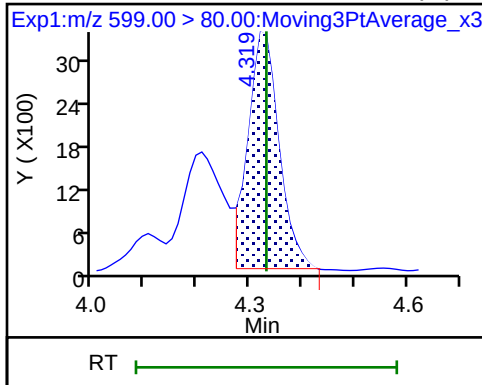
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

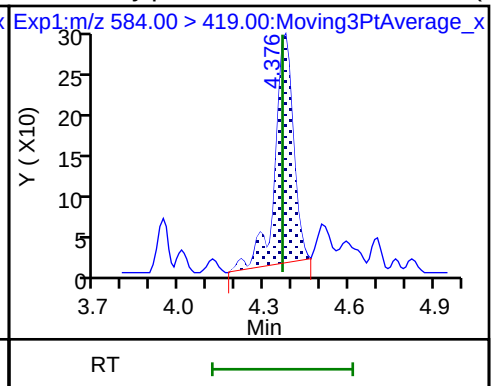
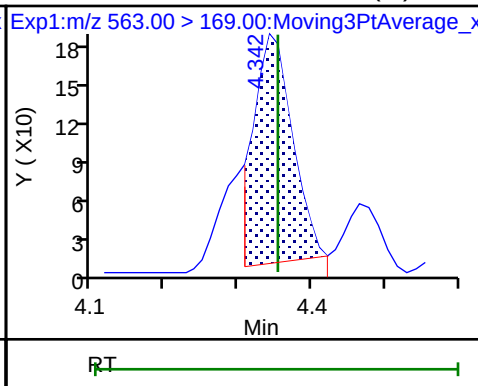
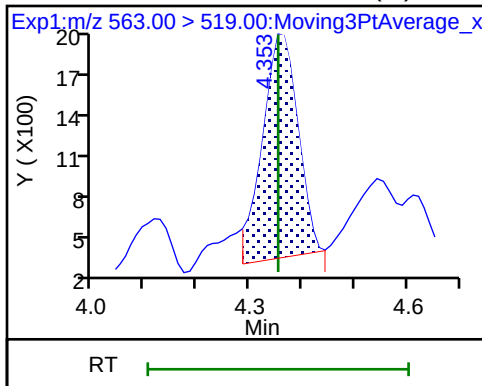
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

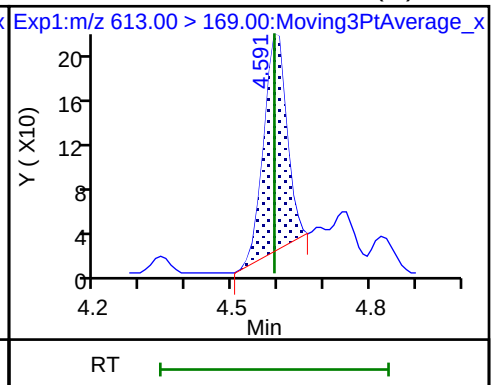
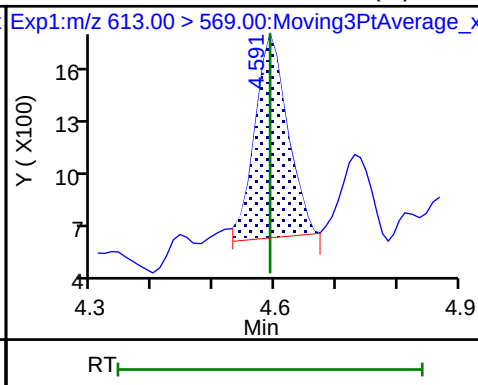
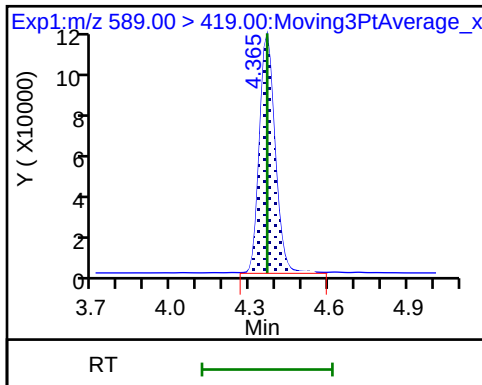
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

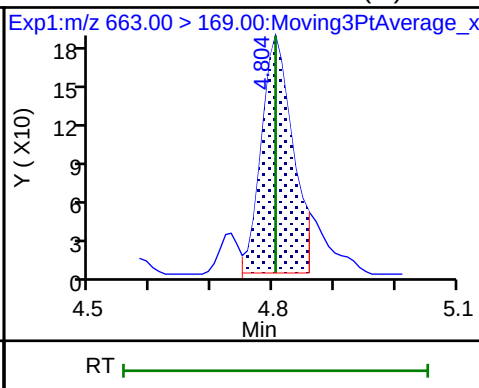
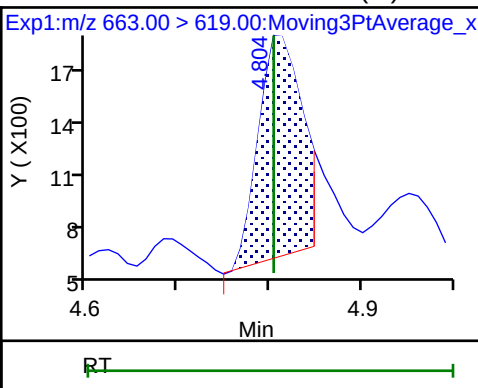
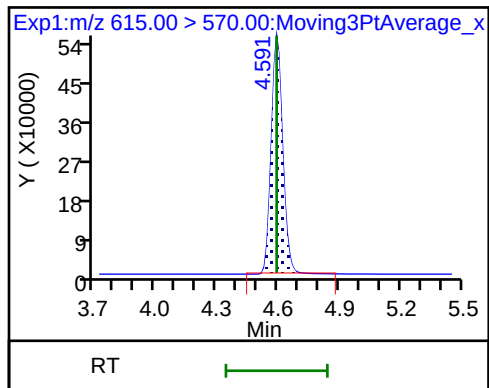
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

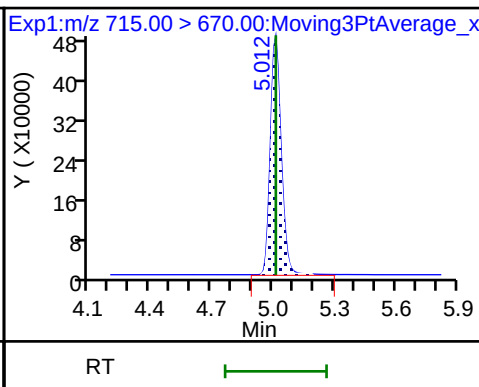
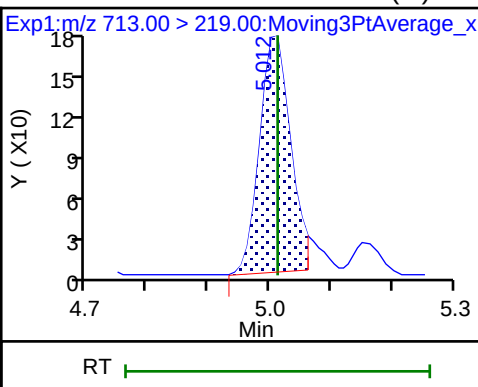
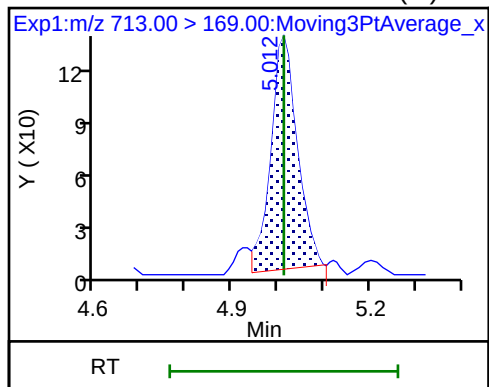
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



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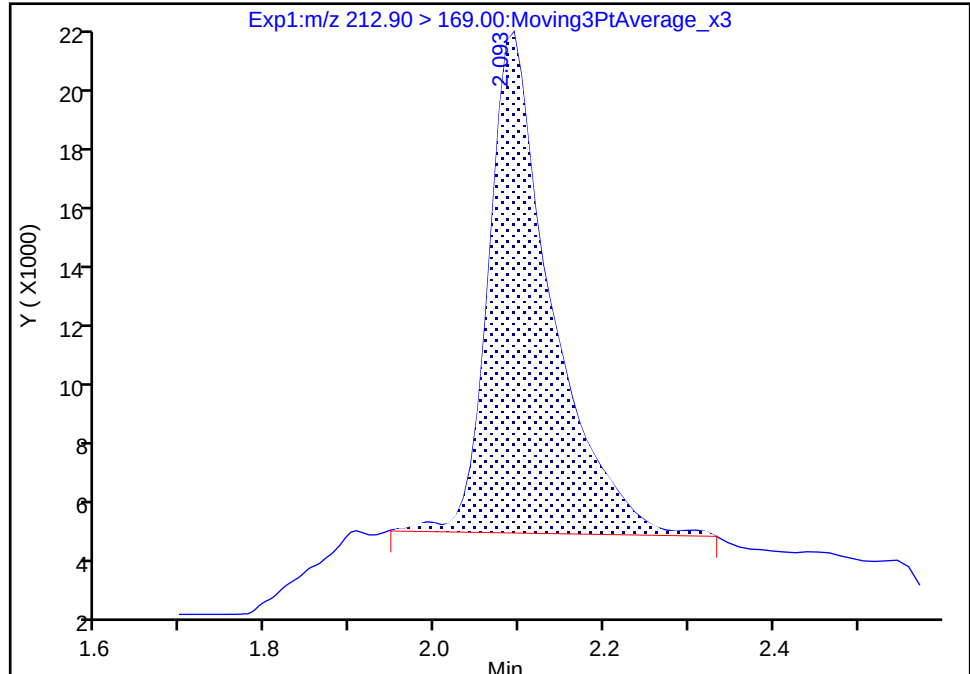
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Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

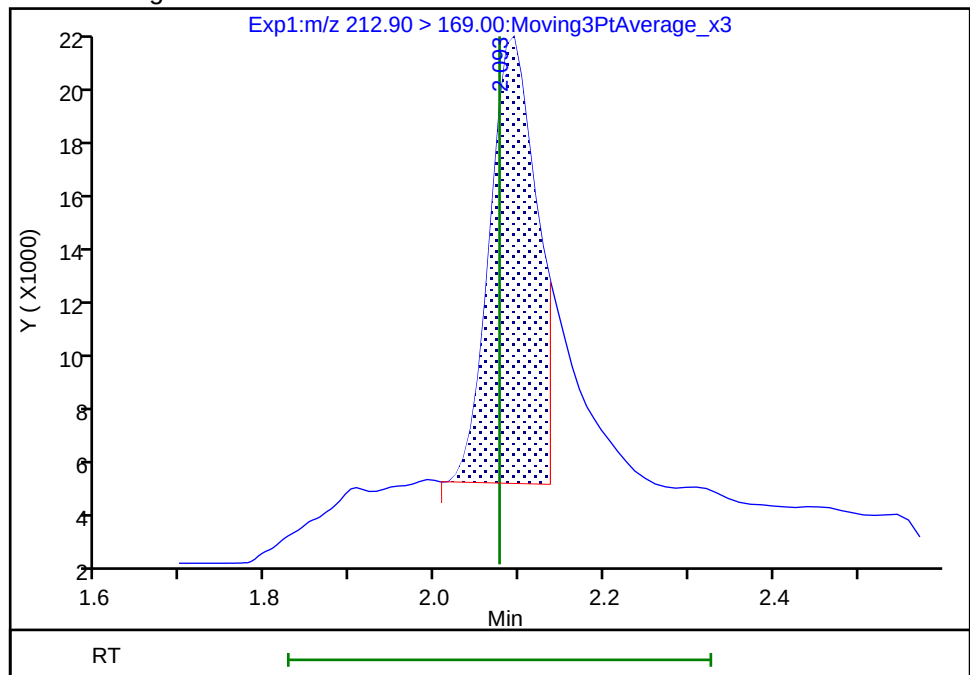
RT: 2.09
Area: 84430
Amount: 0.058850
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 61555
Amount: 0.042906
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:27:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 48 of 951

12/21/2022
3:12 PM

Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
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		

Signal: 1

Exp1:m/z 262.90 > 219.00:Moving3PtAverage_x3

Y (X100)

2.400

2400

Min

Exp1:m/z 262.90 > 219.00:Moving3PtAverage_x3

Y (X100)

Min

RT

Eurofins Burlington

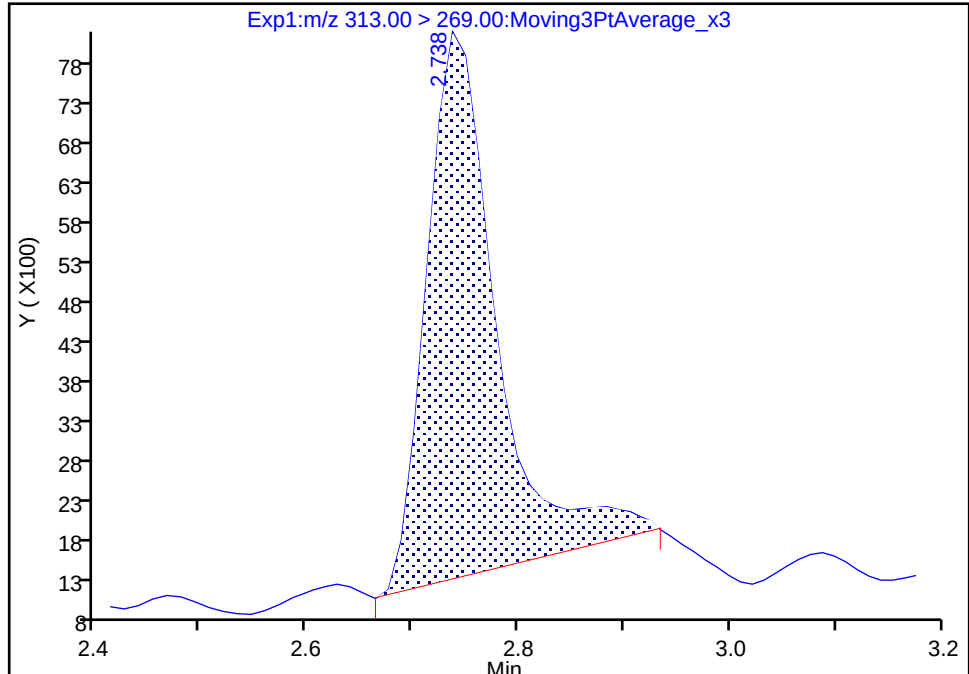
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Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

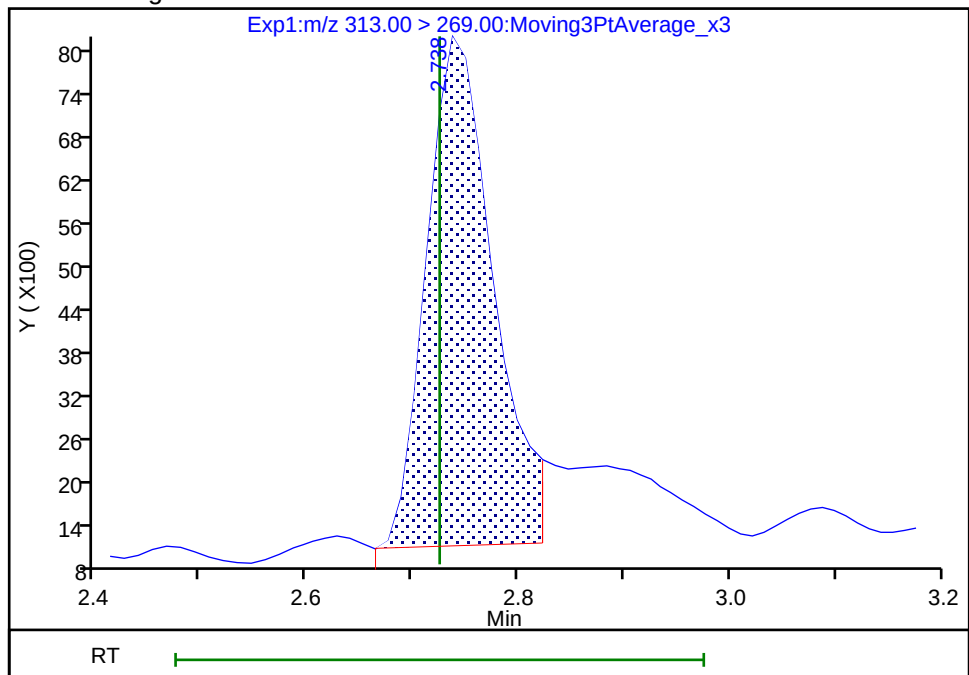
RT: 2.74
Area: 31918
Amount: 0.017695
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 31089
Amount: 0.017236
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:28:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 50 of 951

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3:12 PM

Eurofins Burlington

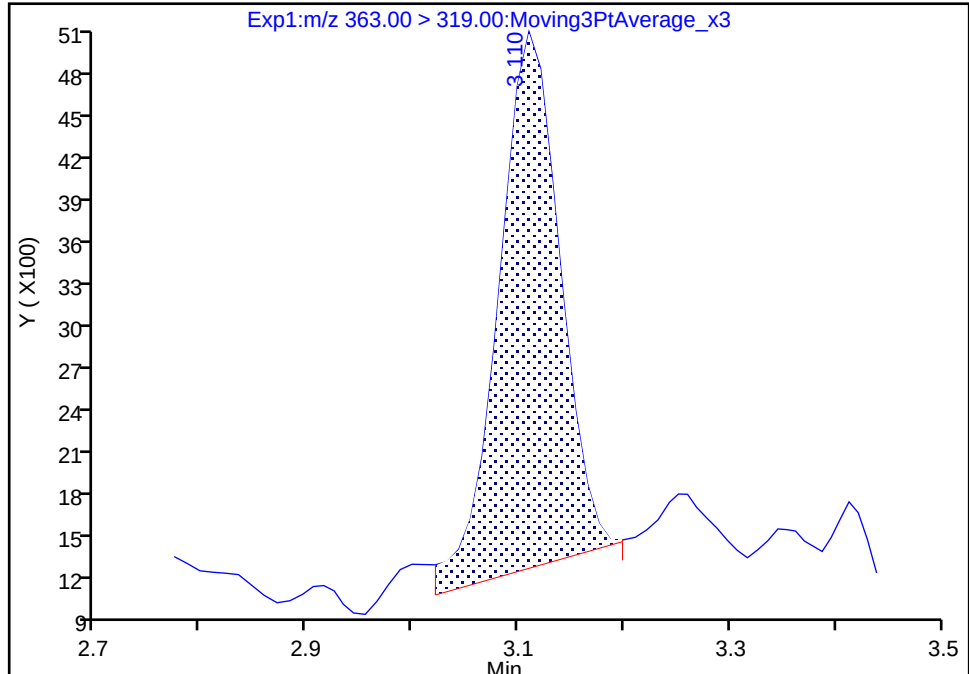
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Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

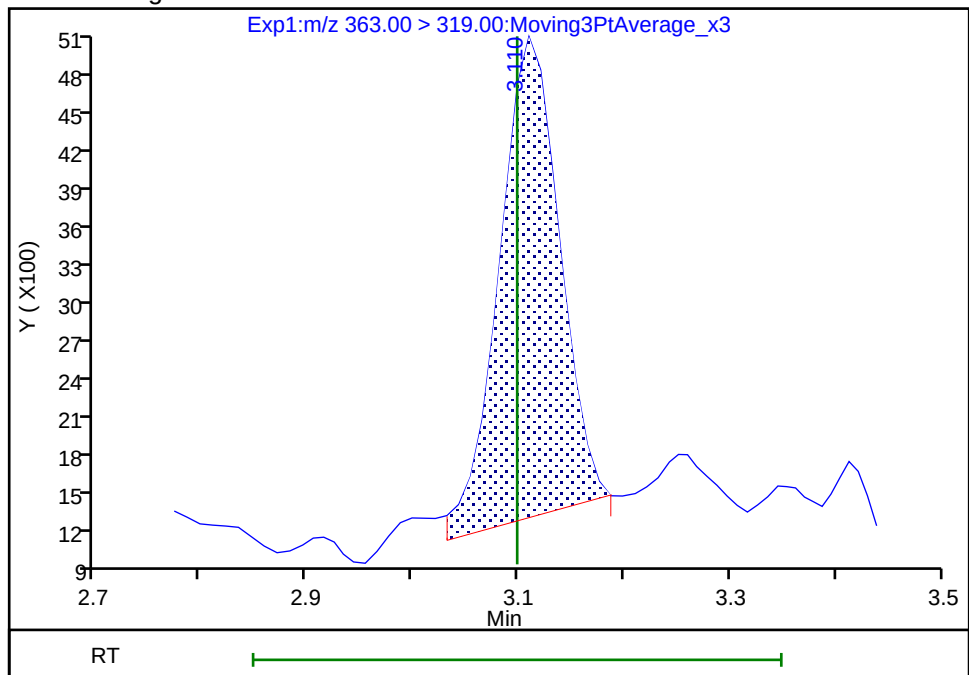
RT: 3.11
Area: 15294
Amount: 0.008285
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 14881
Amount: 0.008061
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:29:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 51 of 951

12/21/2022
3:12 PM

Eurofins Burlington

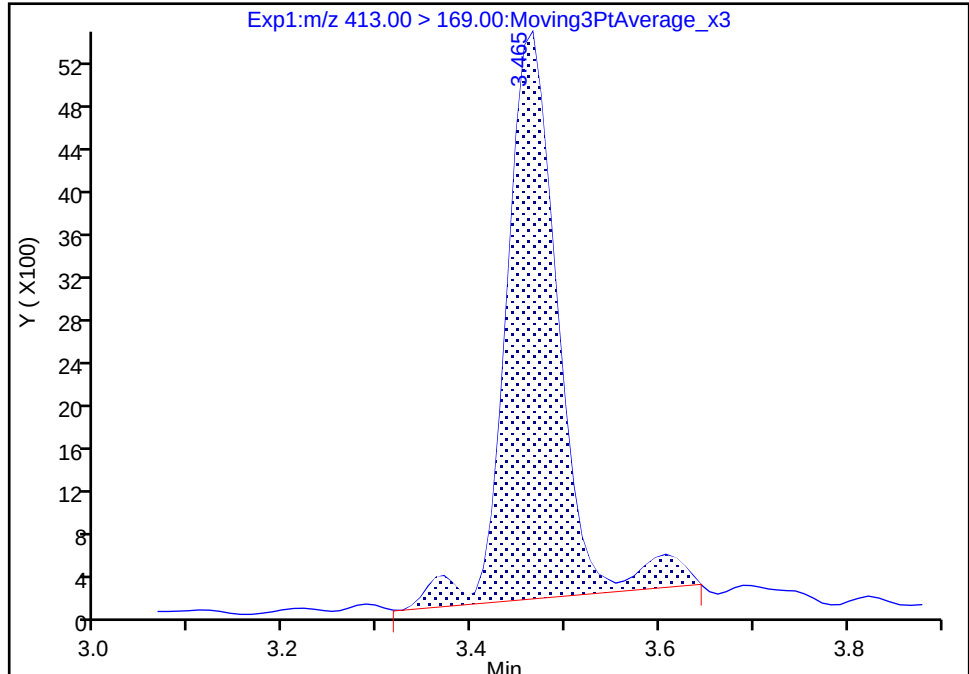
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Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

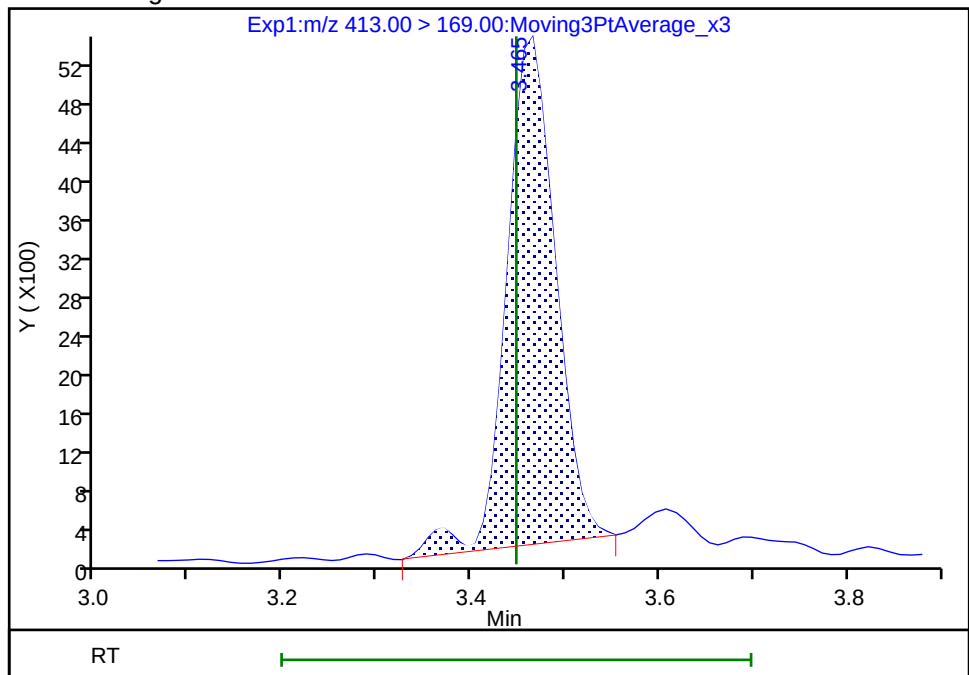
RT: 3.47
Area: 20604
Amount: 0.023874
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 18982
Amount: 0.028480
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:29:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

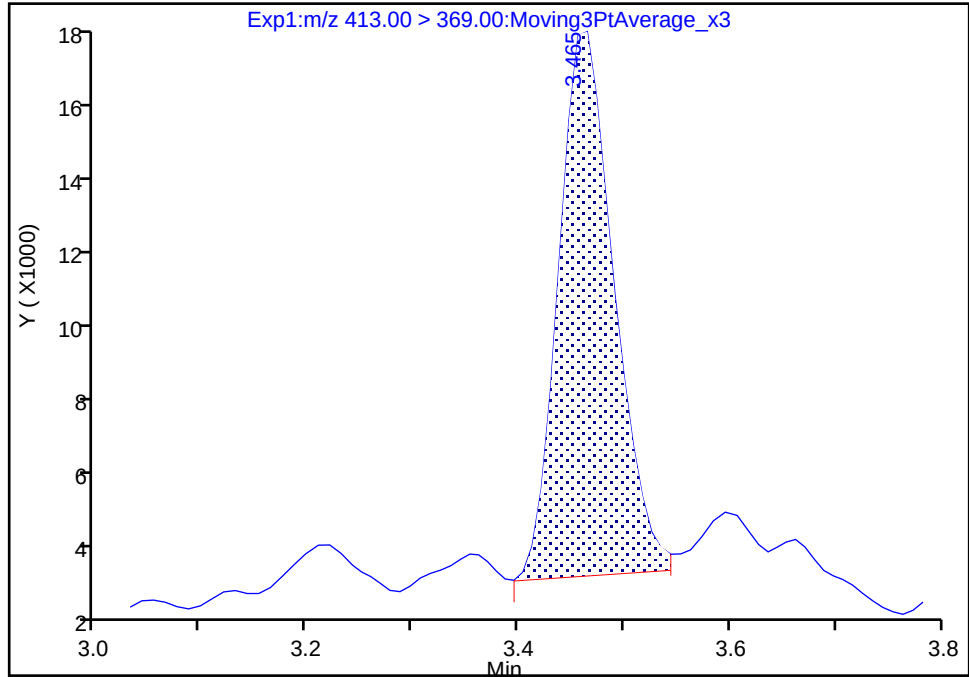
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

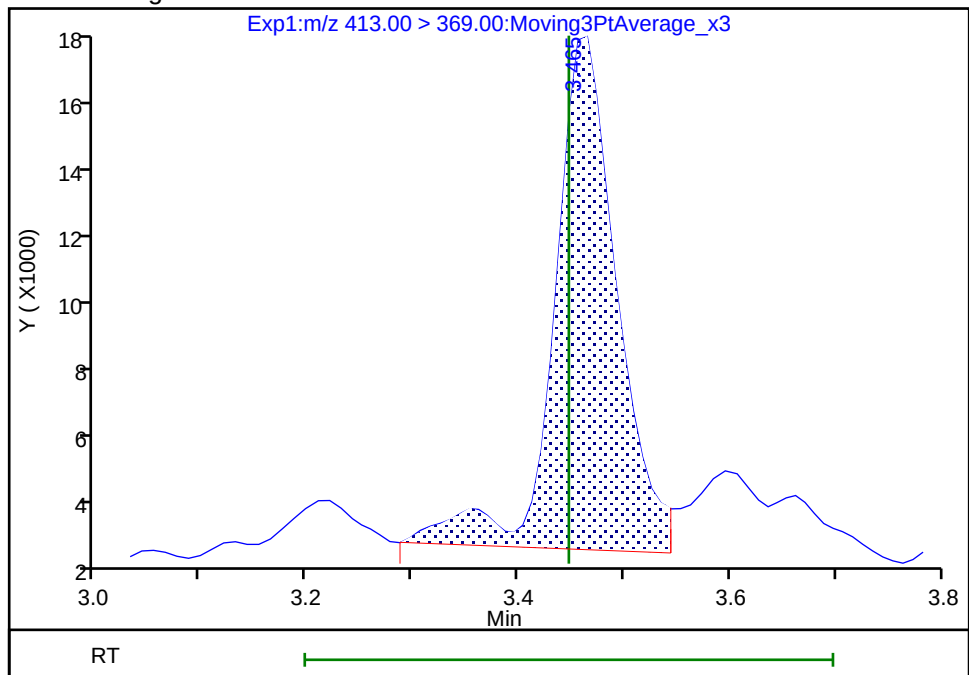
RT: 3.47
Area: 49817
Amount: 0.023874
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 59428
Amount: 0.028480
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:29:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

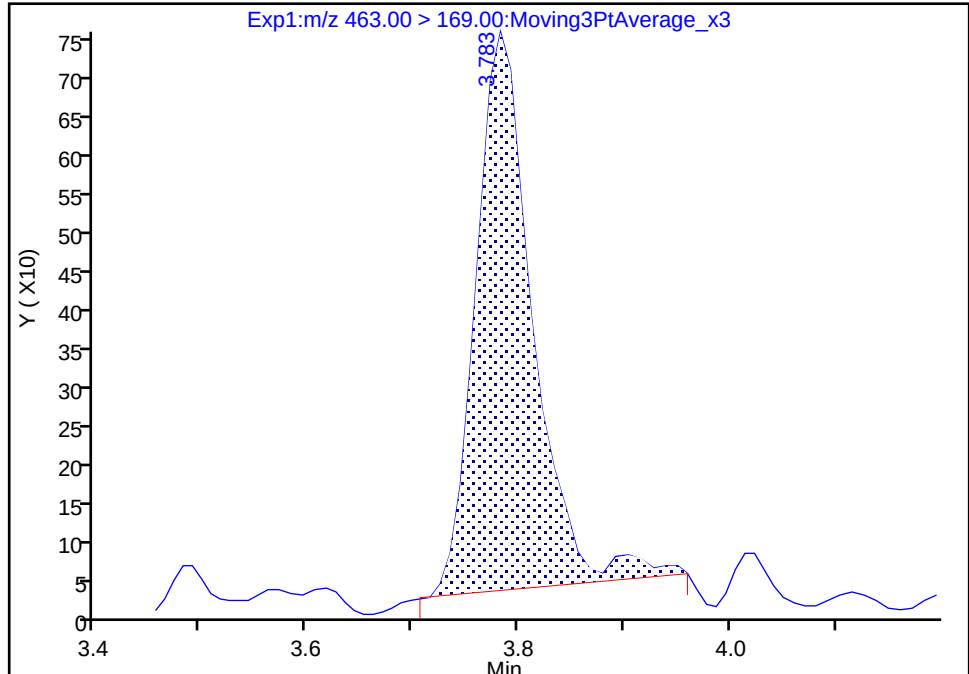
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

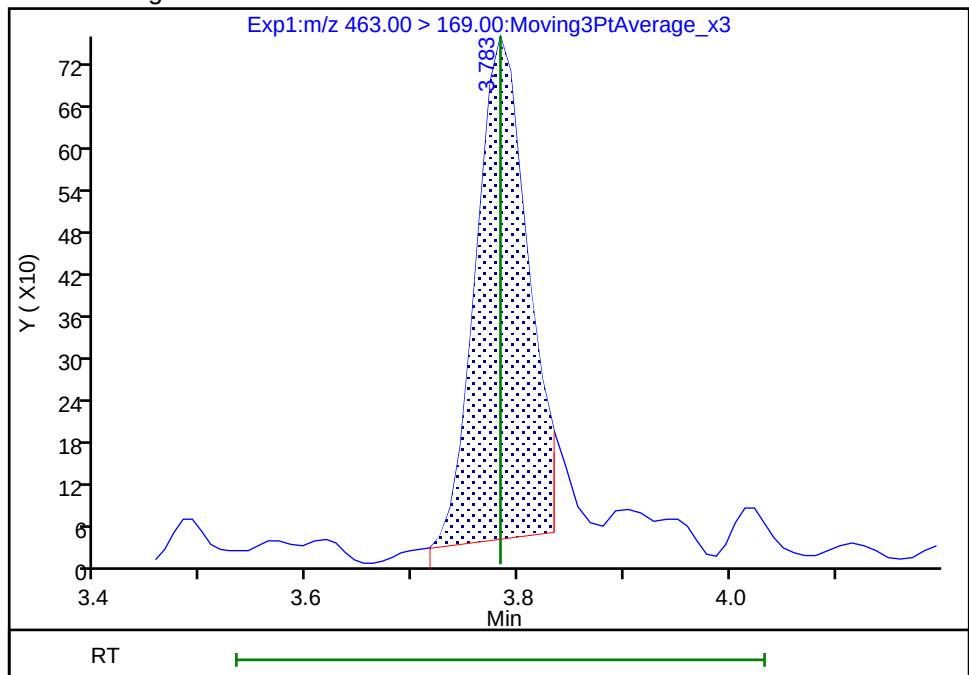
RT: 3.78
Area: 2719
Amount: 0.011930
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2440
Amount: 0.011470
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:30:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

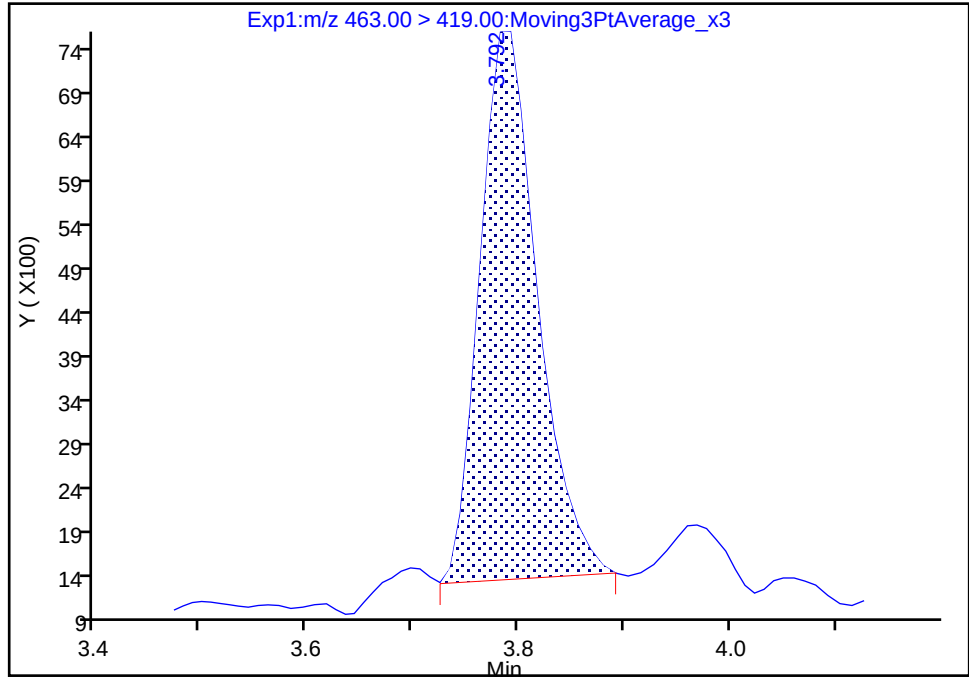
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

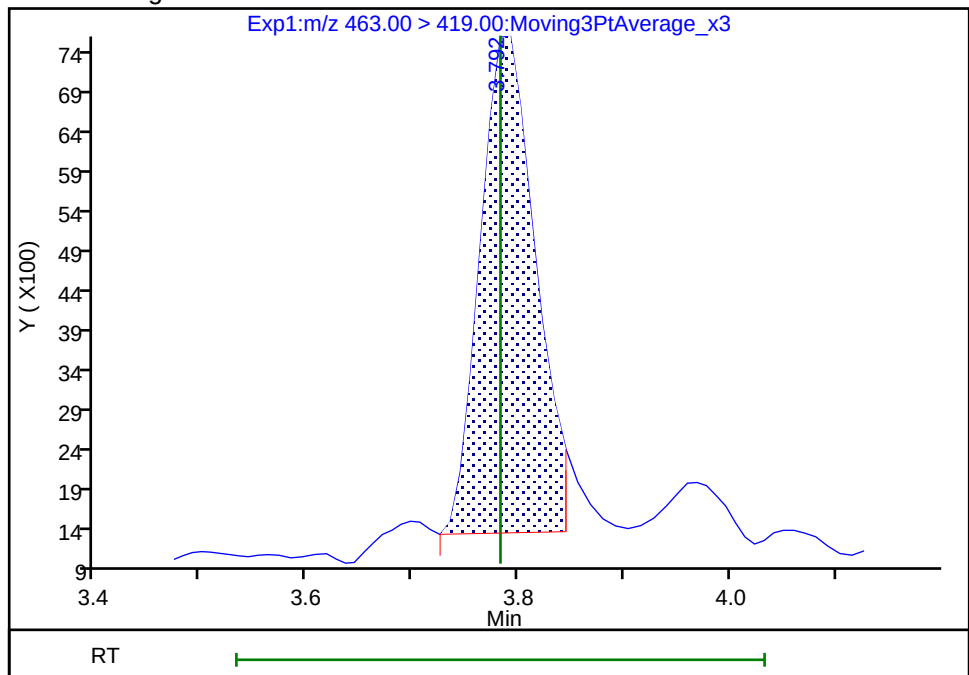
RT: 3.79
Area: 23271
Amount: 0.011930
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 22374
Amount: 0.011470
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:30:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

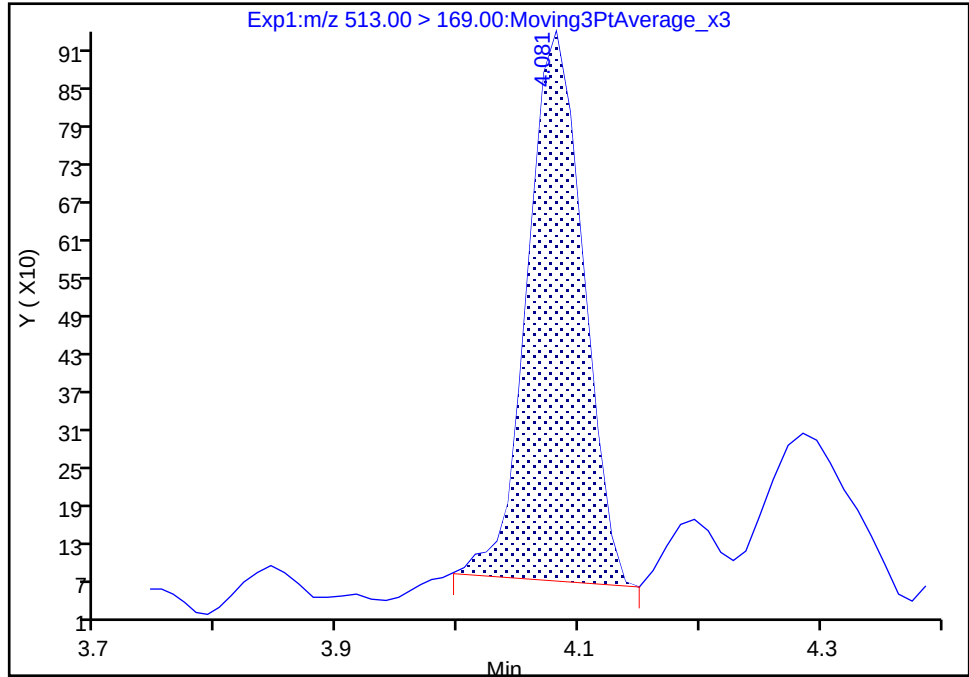
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

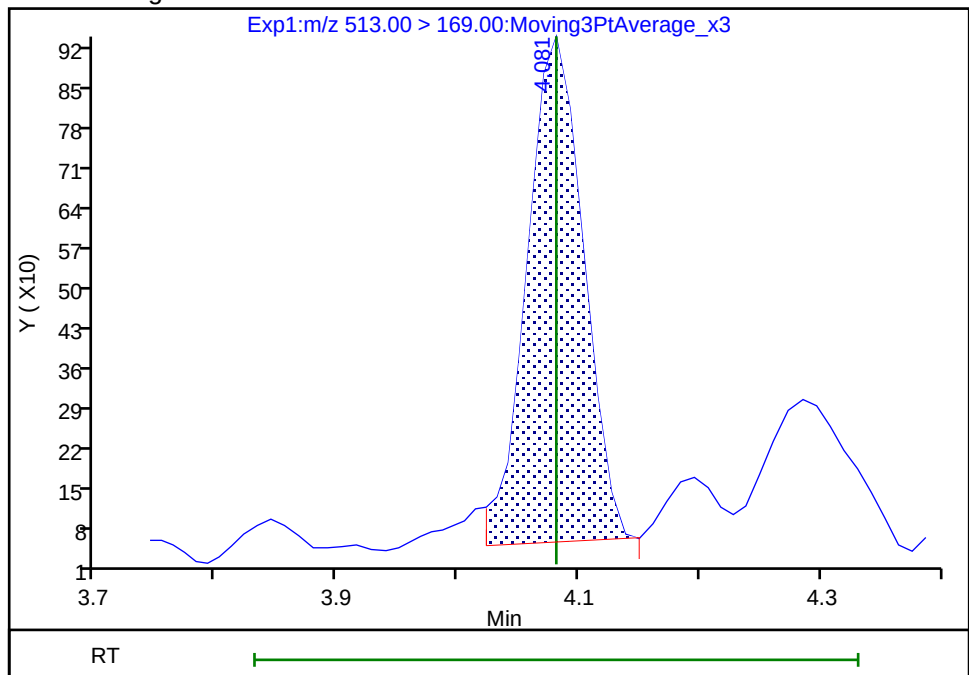
RT: 4.08
Area: 2780
Amount: 0.015461
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2869
Amount: 0.015561
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:31:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

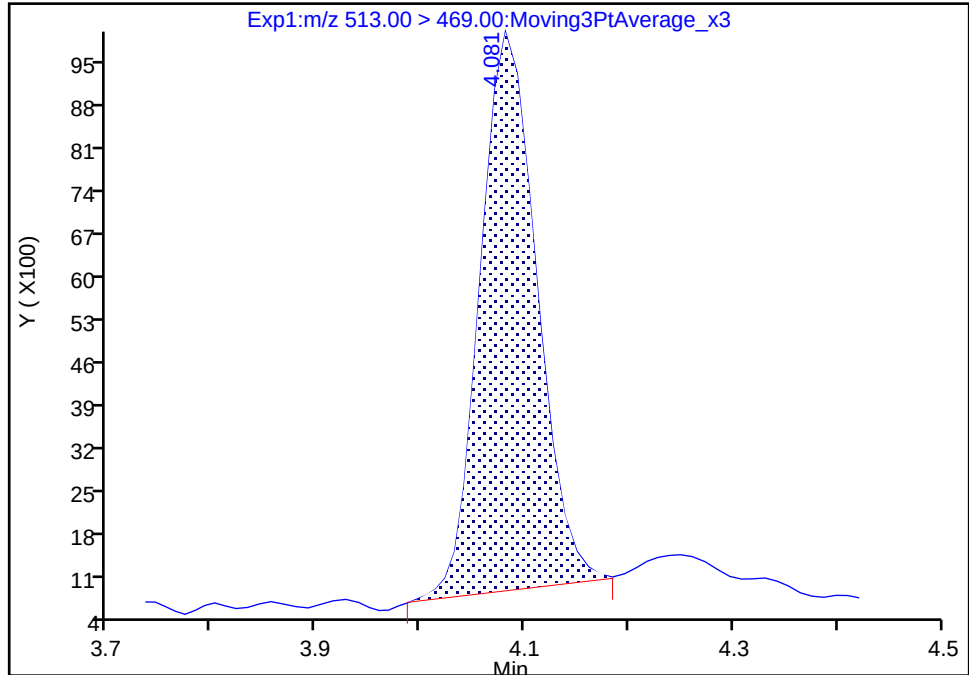
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

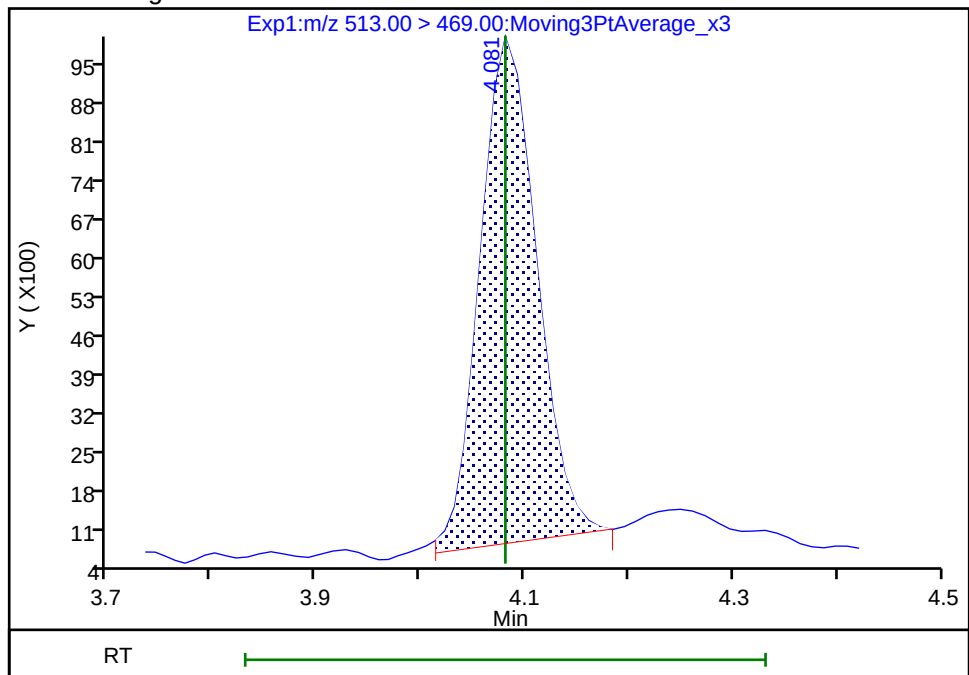
RT: 4.08
Area: 34413
Amount: 0.015461
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 34635
Amount: 0.015561
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:31:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

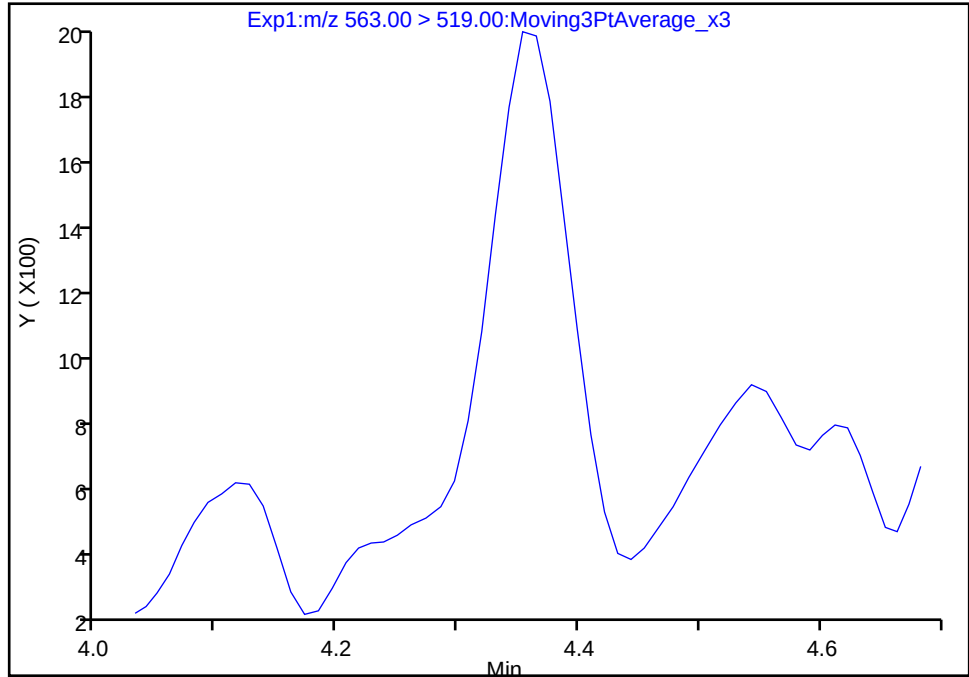
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

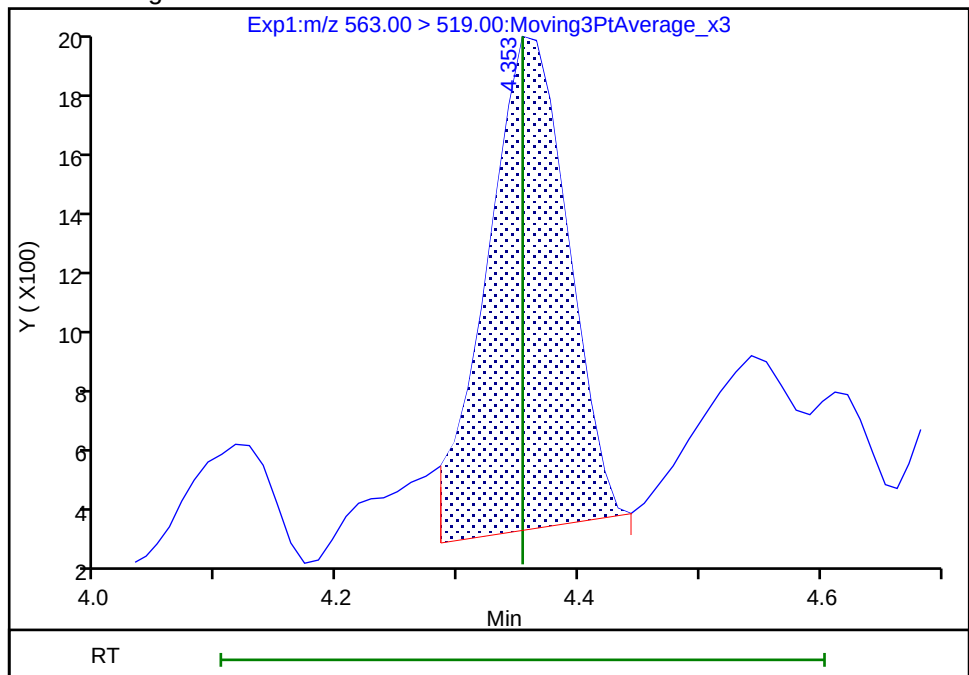
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.35
Area: 7140
Amount: 0.003815
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:32:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

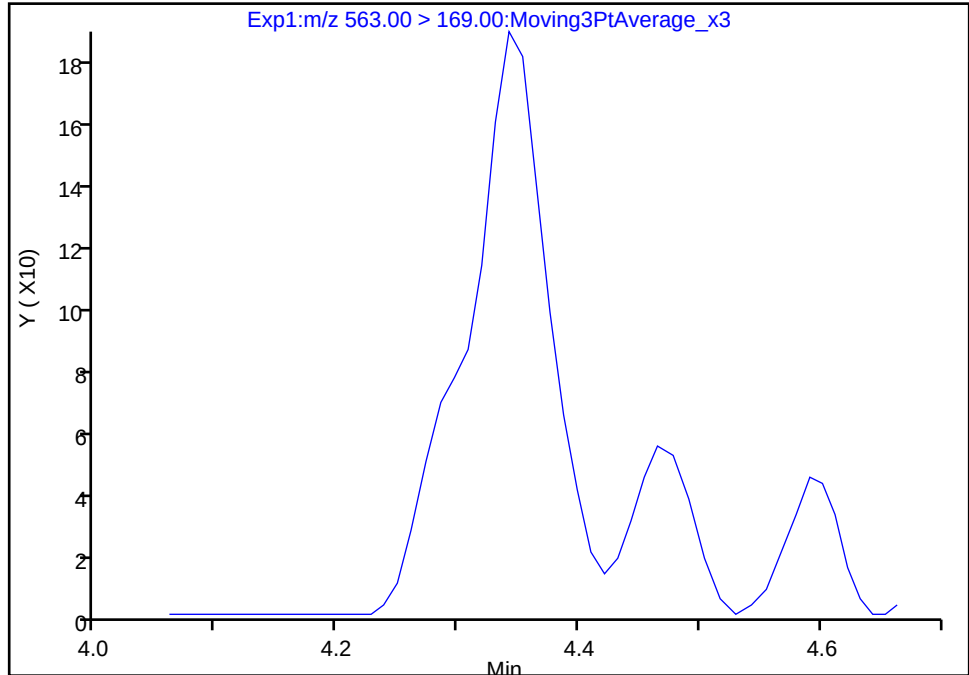
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

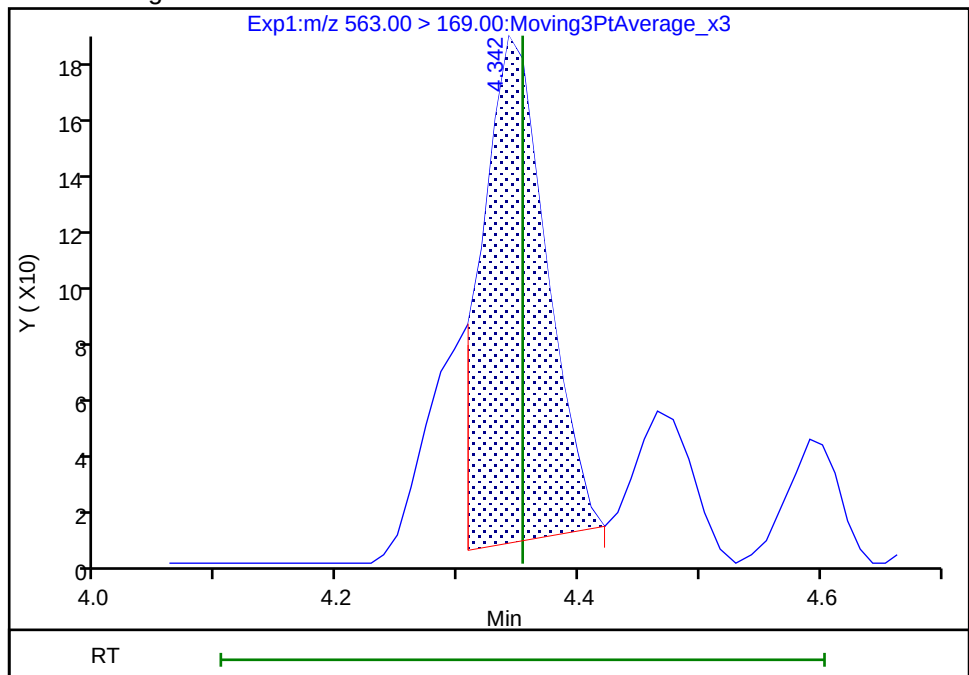
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 646
Amount: 0.003815
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:32:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

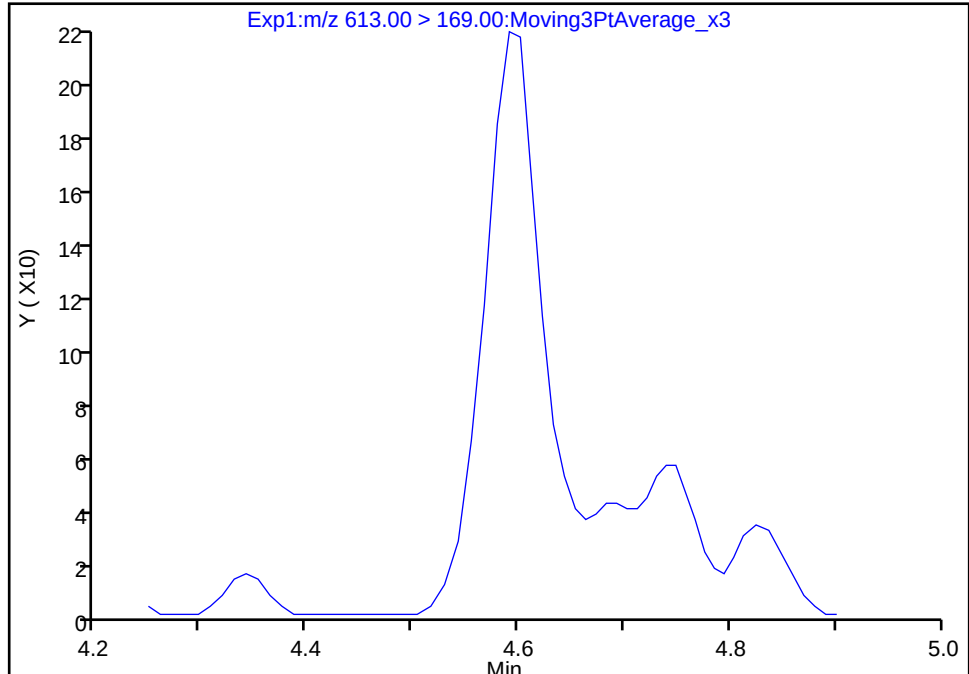
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

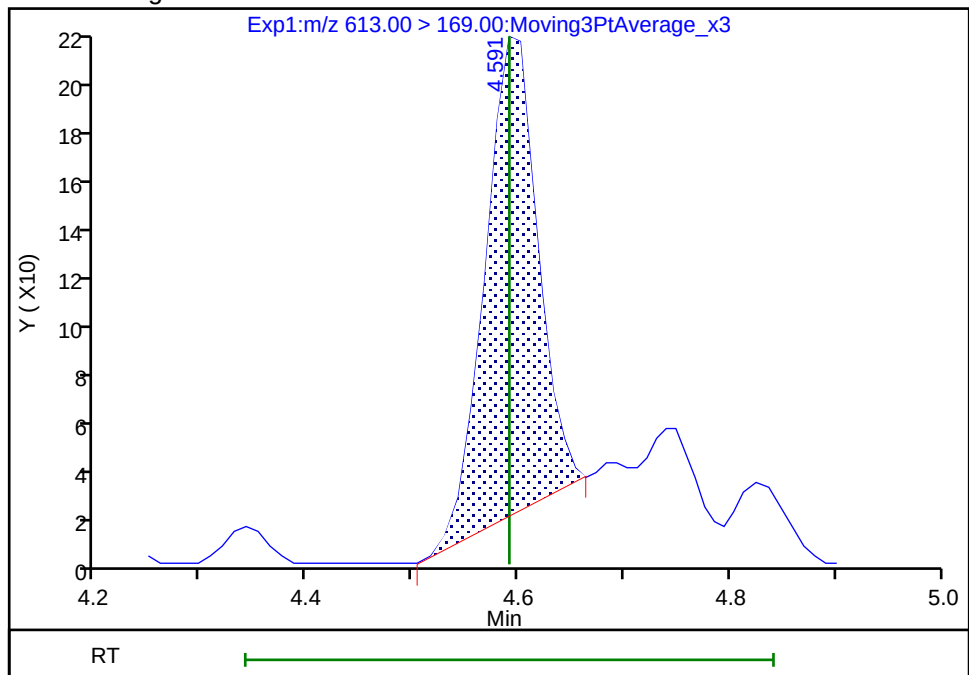
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 676
Amount: 0.002367
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:32:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

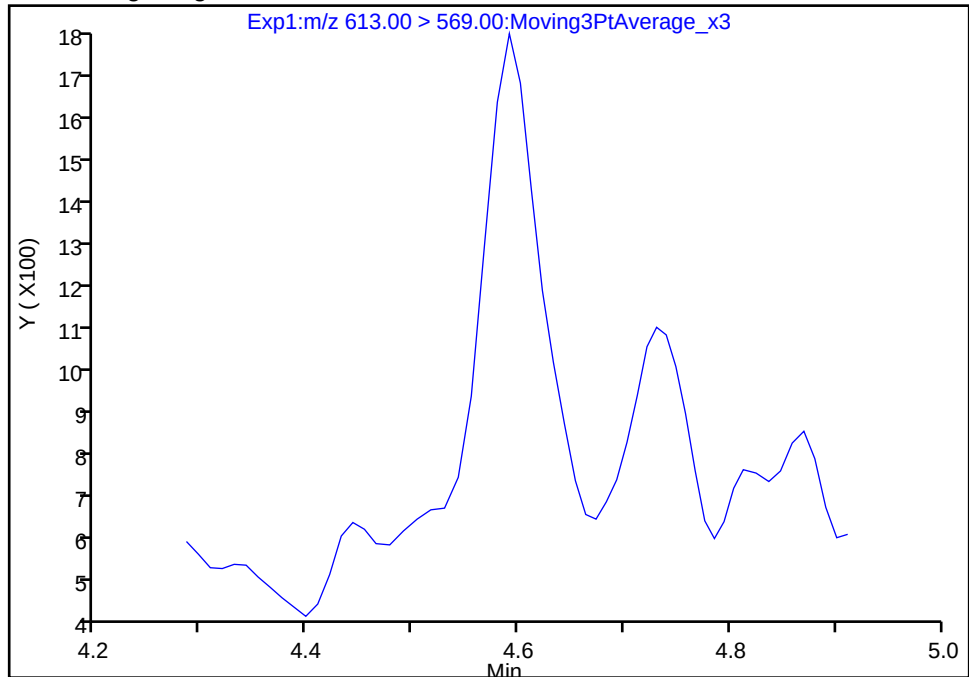
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

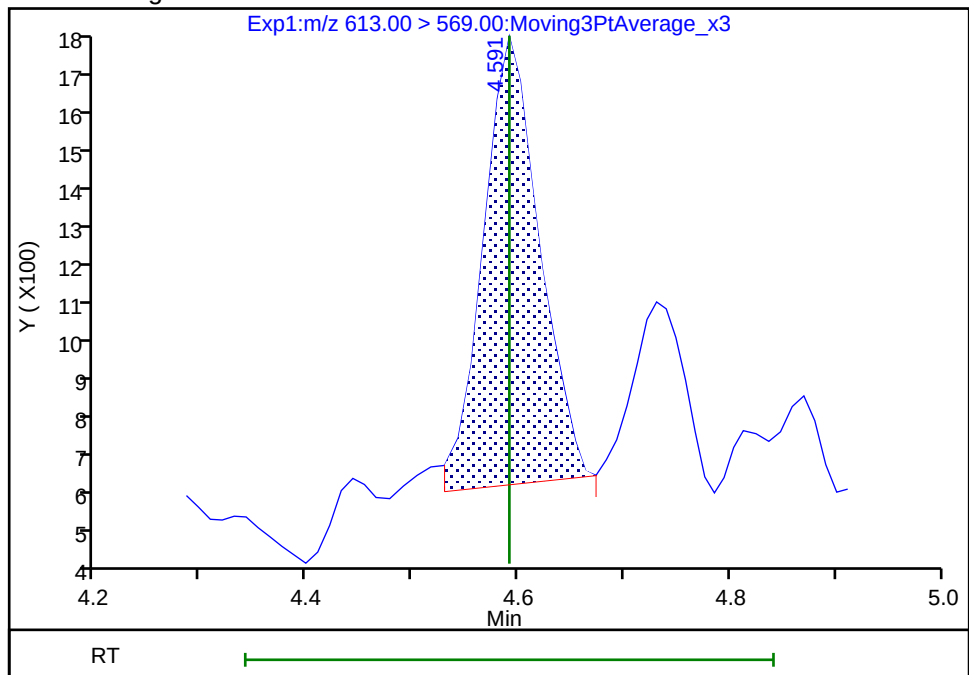
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 4328
Amount: 0.002367
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:32:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

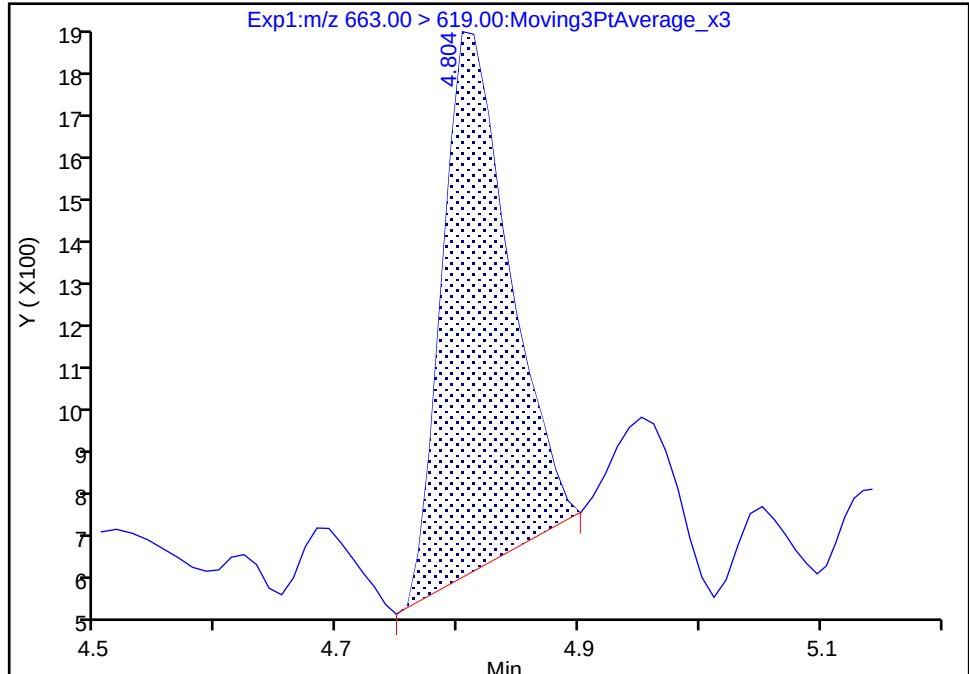
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

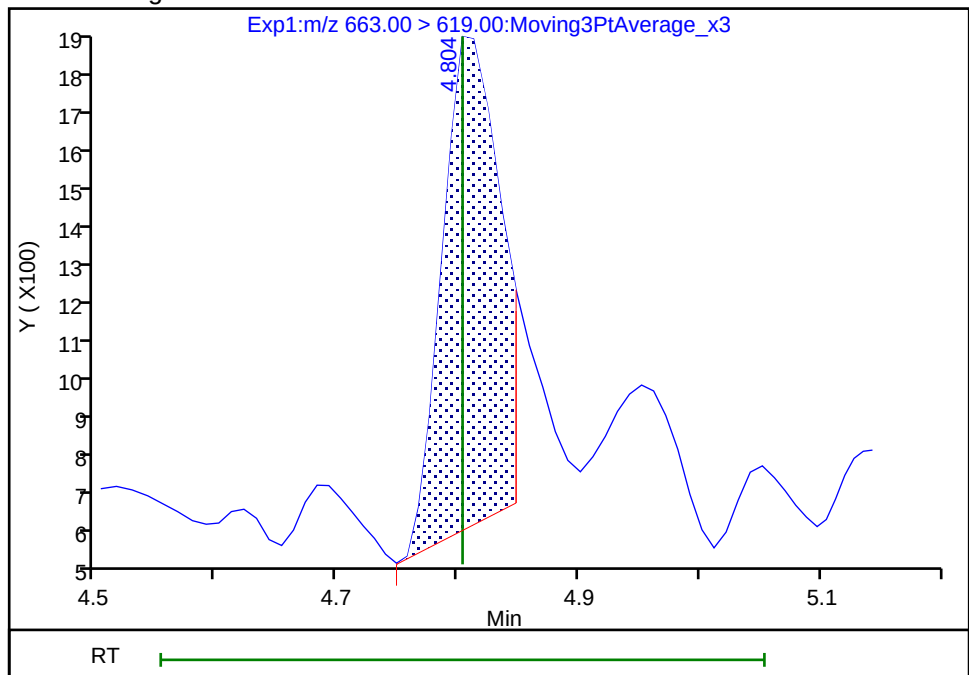
RT: 4.80
Area: 4807
Amount: 0.002749
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 4092
Amount: 0.002340
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:33:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

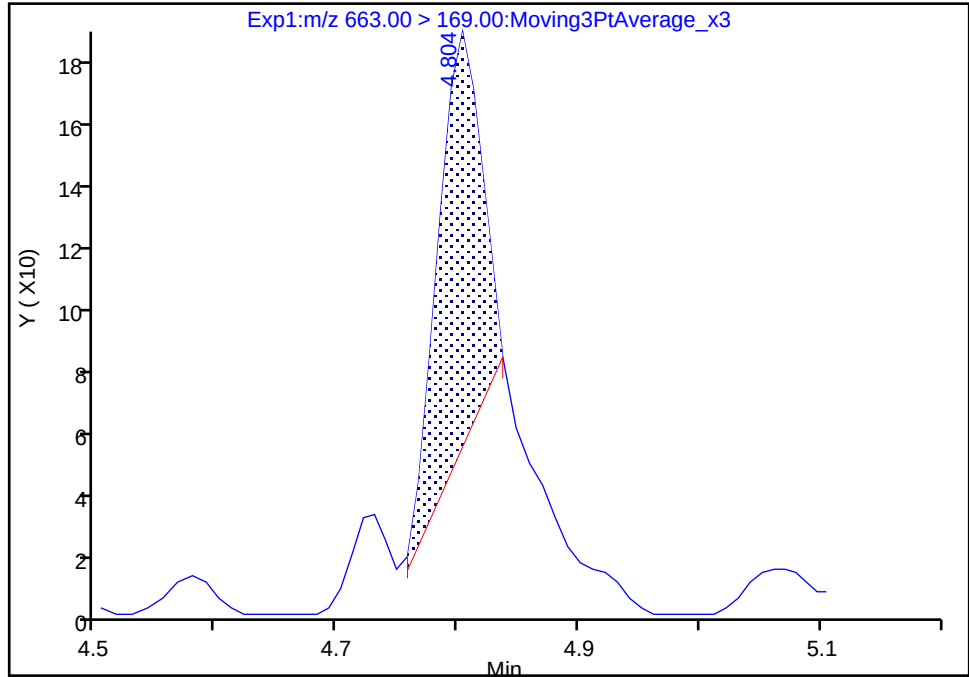
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

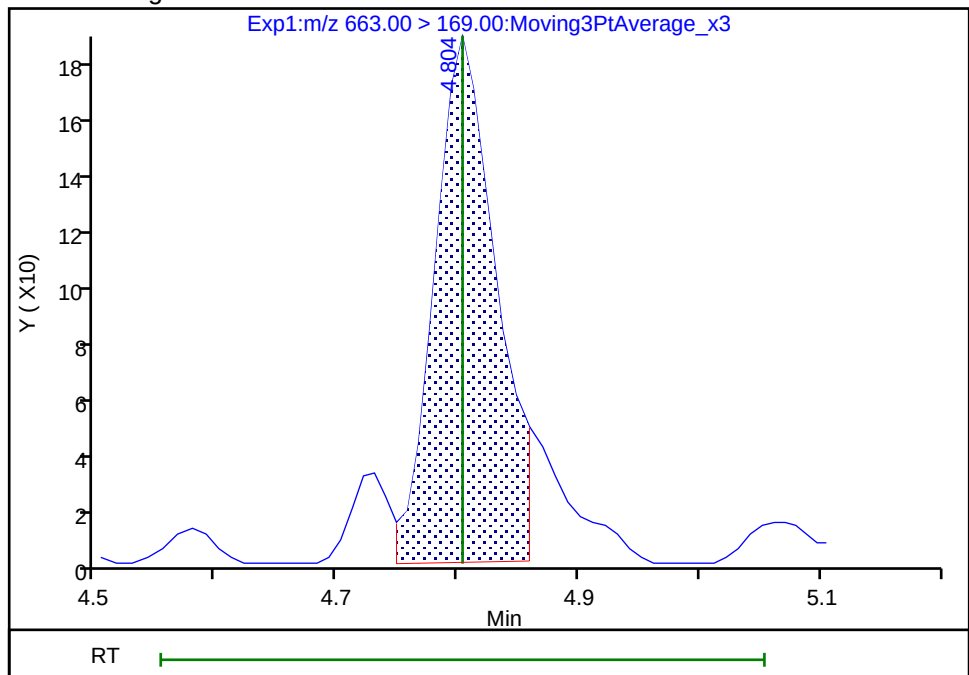
RT: 4.80
Area: 326
Amount: 0.002749
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 635
Amount: 0.002340
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:33:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

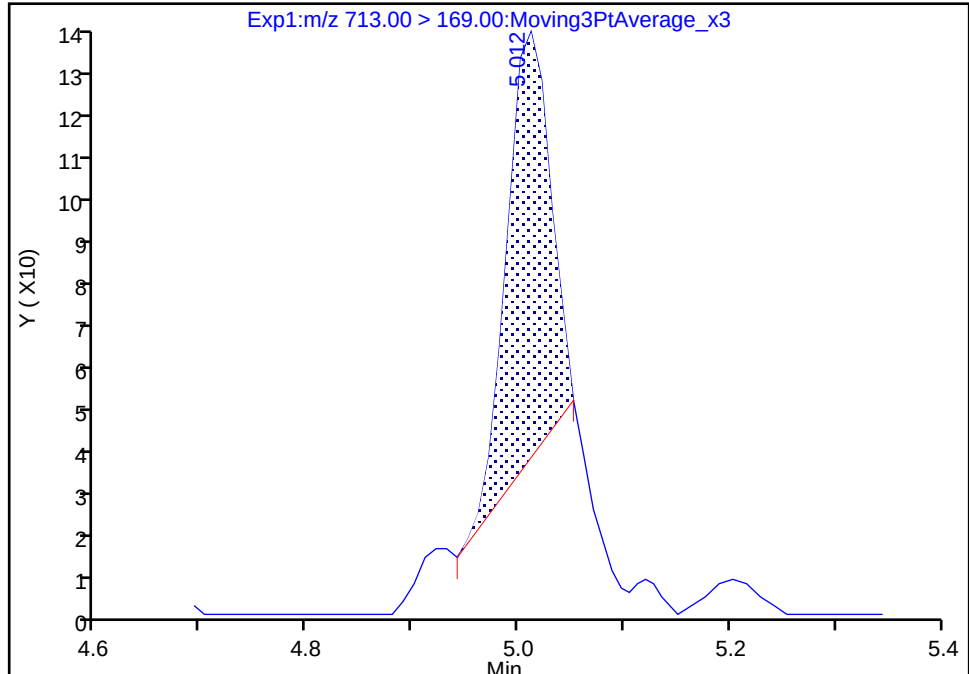
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

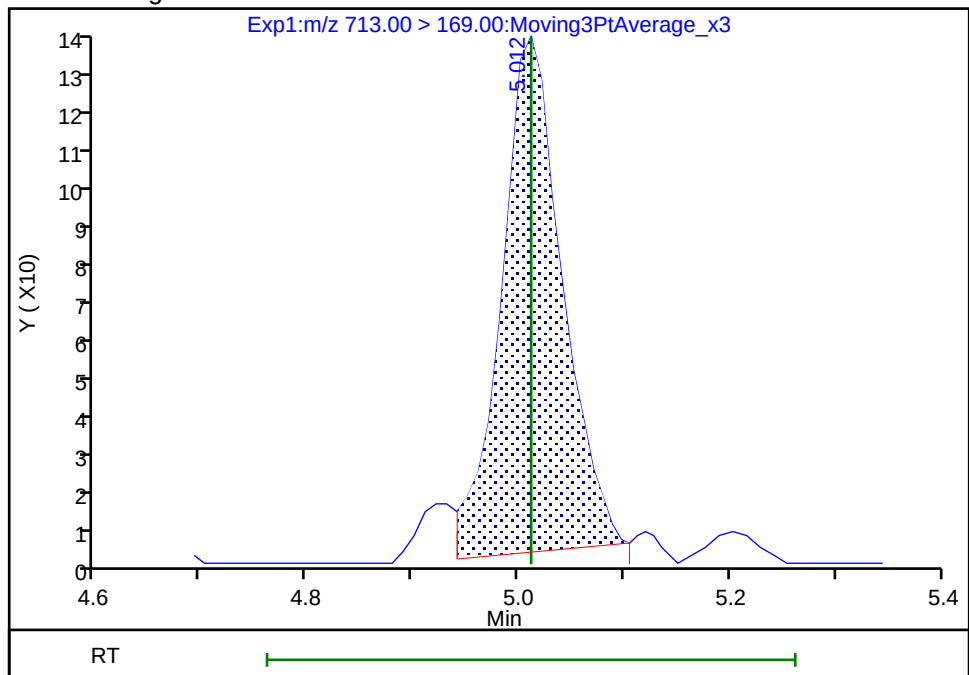
RT: 5.01
Area: 279
Amount: 0.001425
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 520
Amount: 0.002655
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:33:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

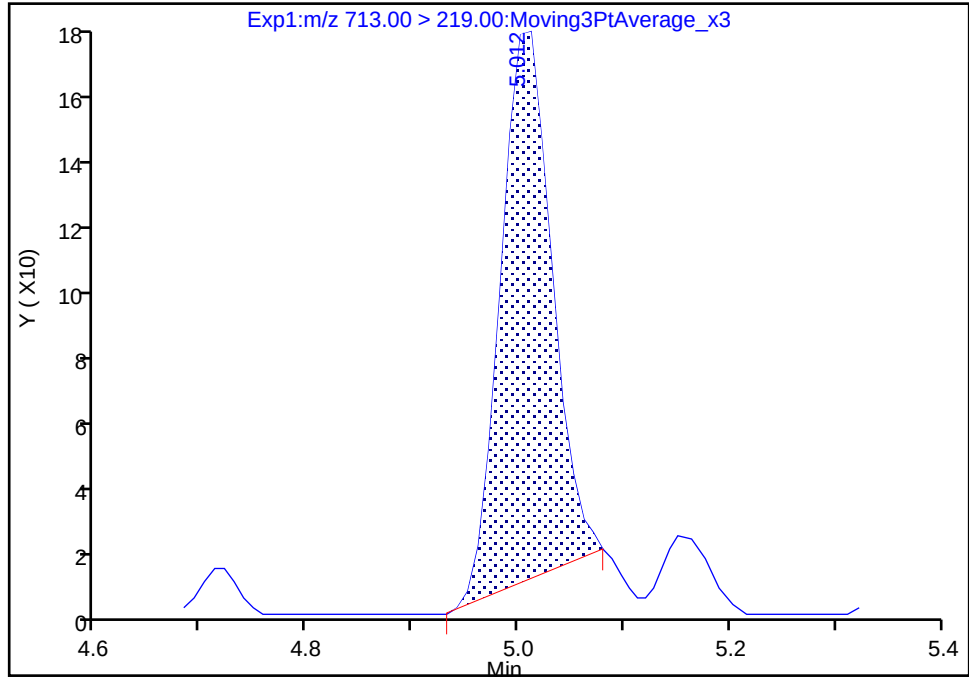
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

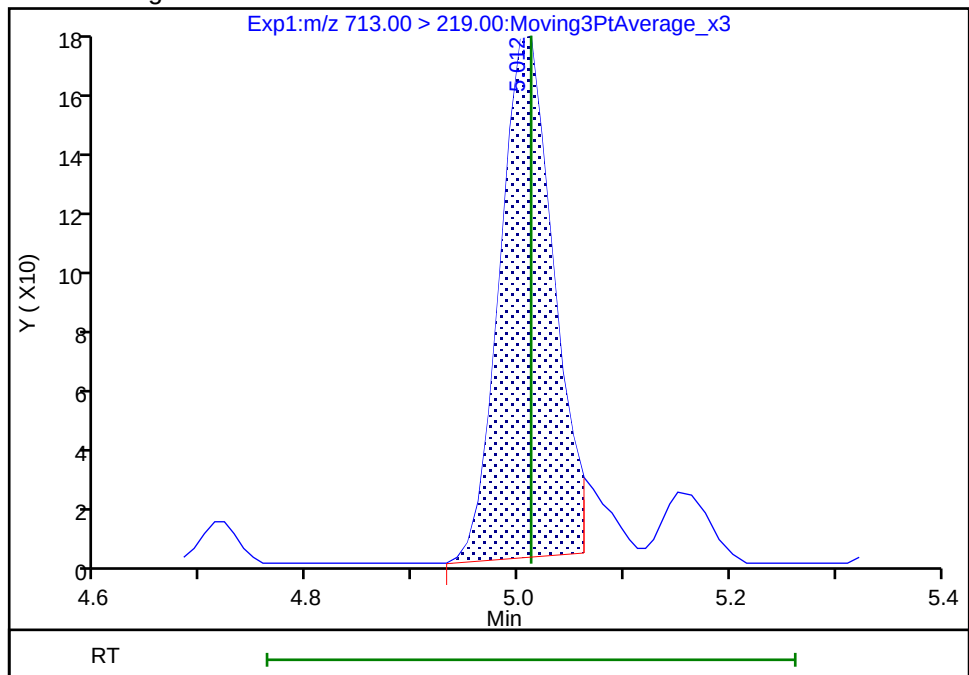
RT: 5.01
Area: 568
Amount: 0.001425
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 618
Amount: 0.002655
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:33:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

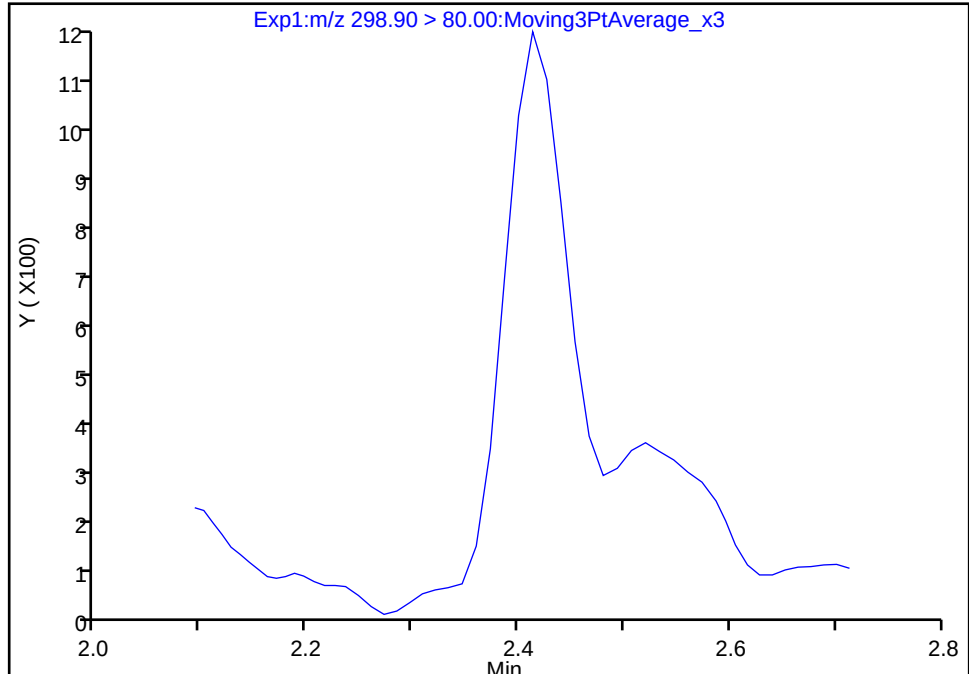
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

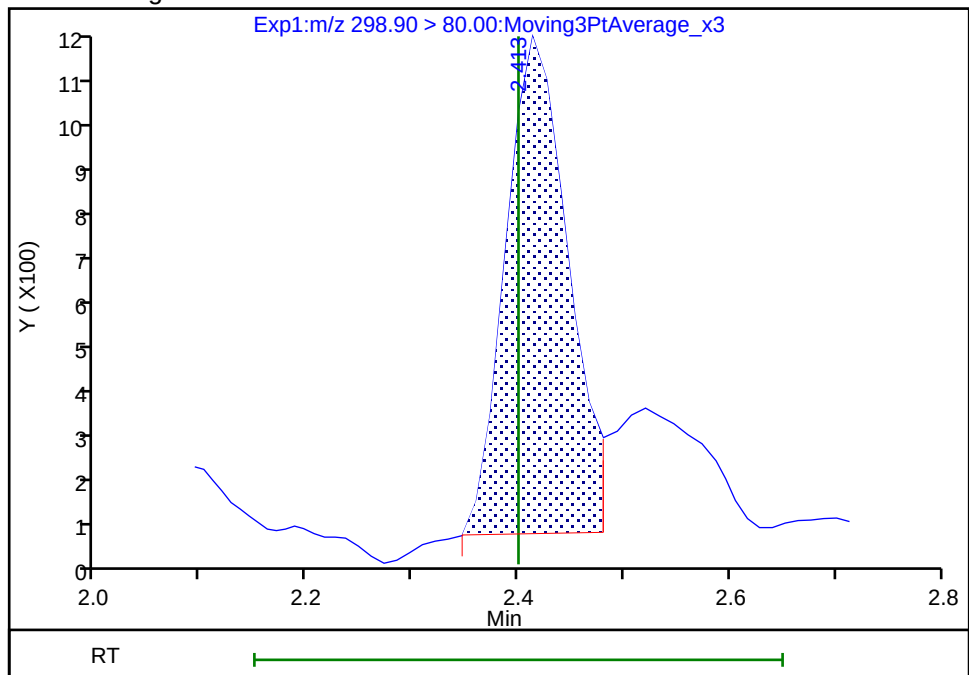
Signal: 1

Not Detected
Expected RT: 2.40

Processing Integration Results

RT: 2.41
Area: 4051
Amount: 0.002207
Amount Units: ng/ml

Manual Integration Results

Reviewer: nampitakw, 19-Dec-2022 09:28:25
Audit Action: Manually IntegratedAudit Reason: Incomplete Integration
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Eurofins Burlington

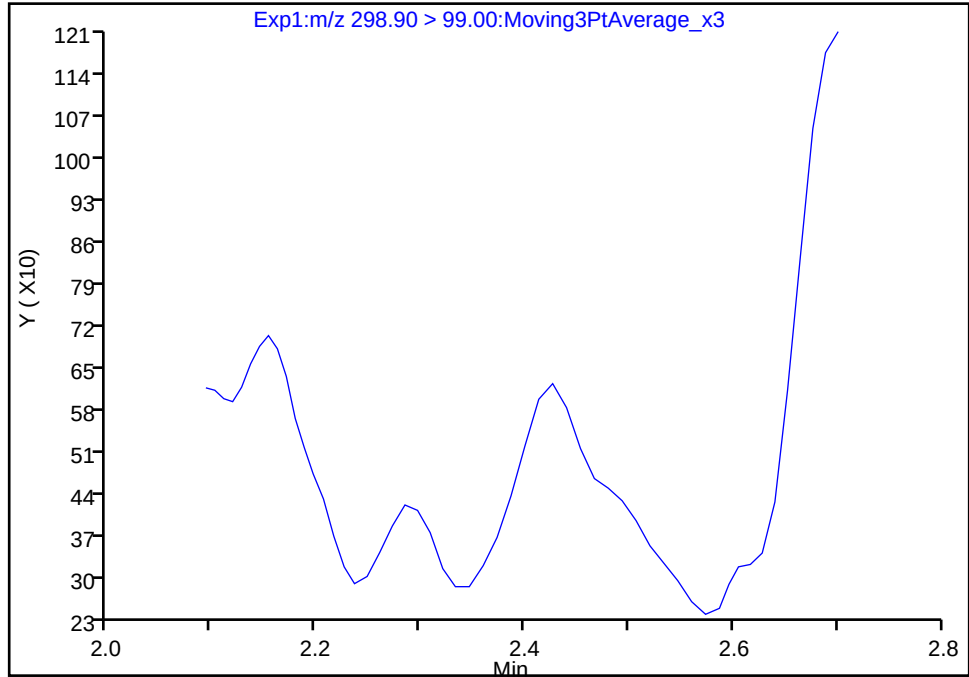
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

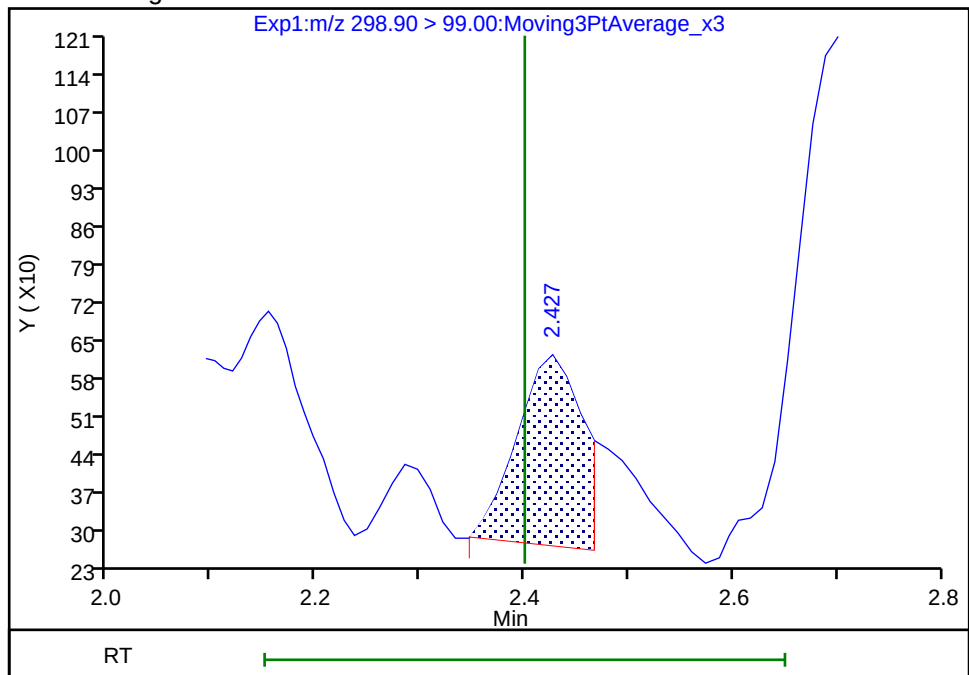
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 1504
Amount: 0.002207
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:28:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

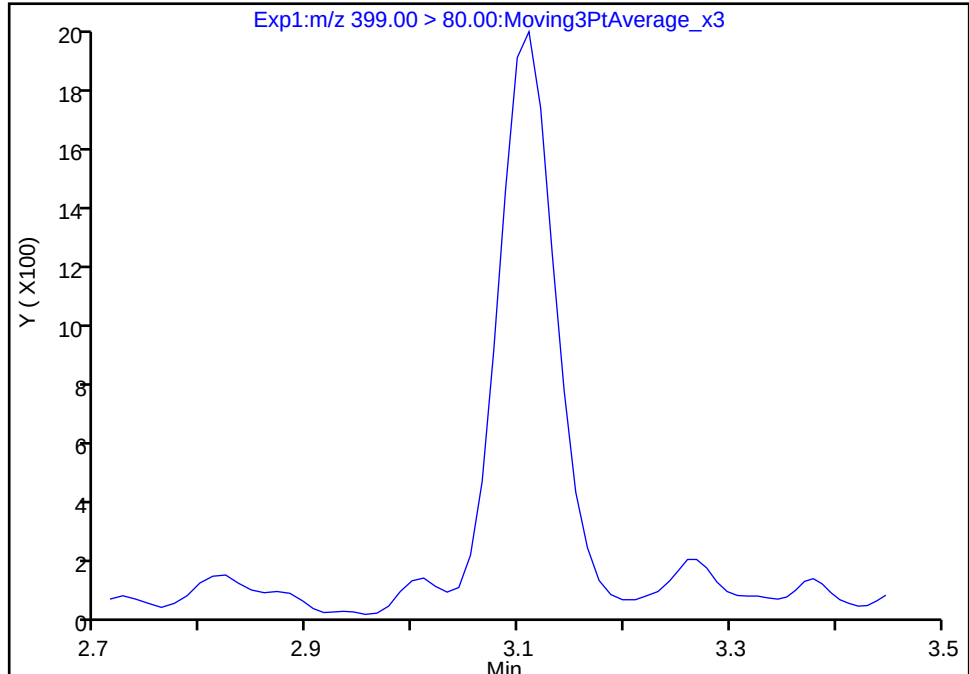
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	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

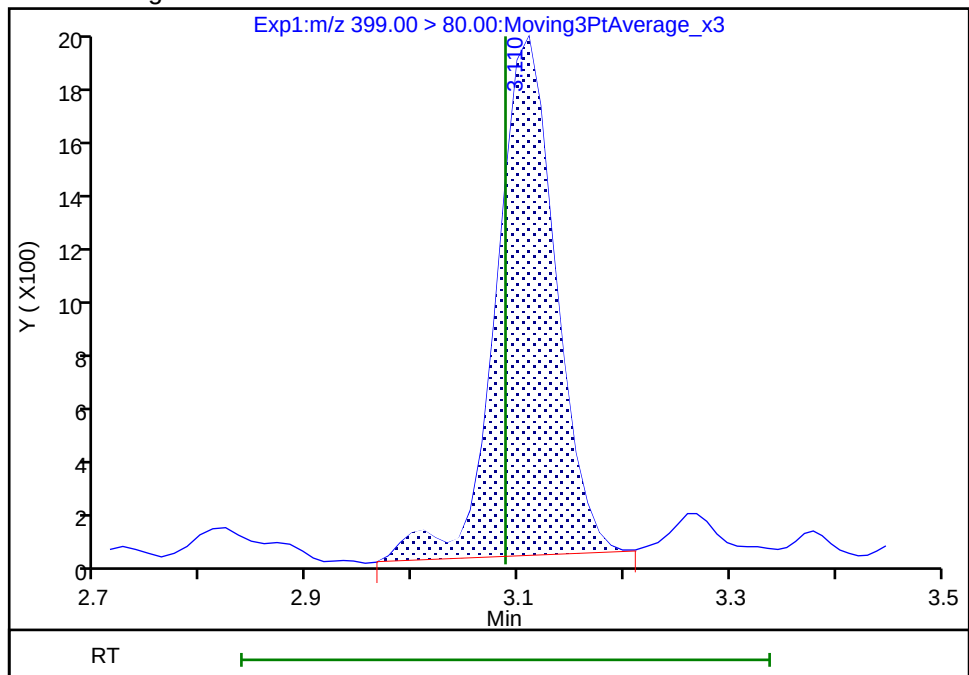
Signal: 1

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 7362
Amount: 0.005527
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:28:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

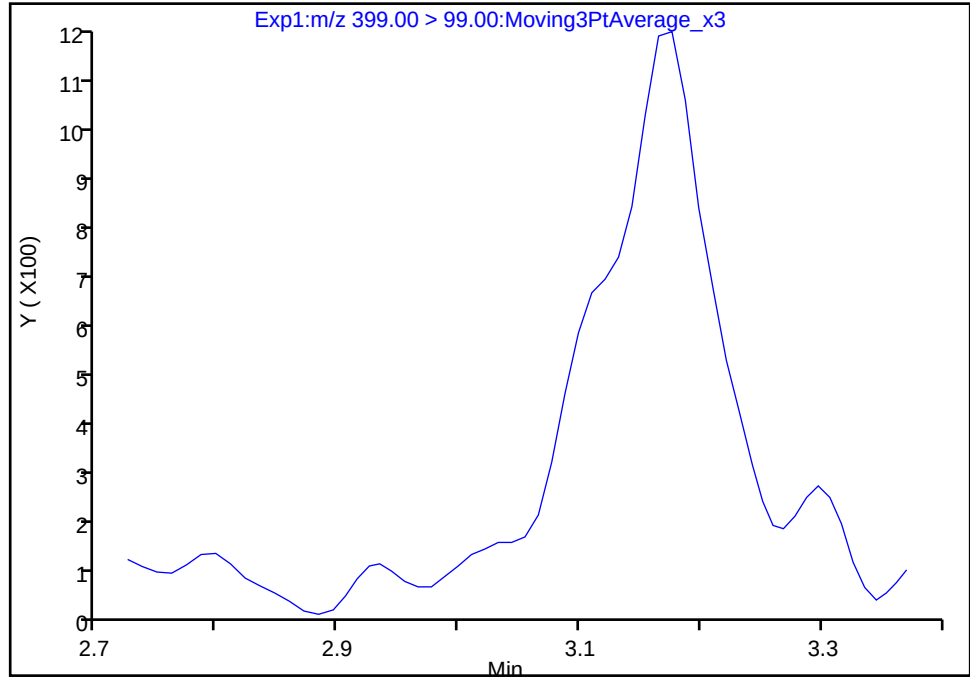
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

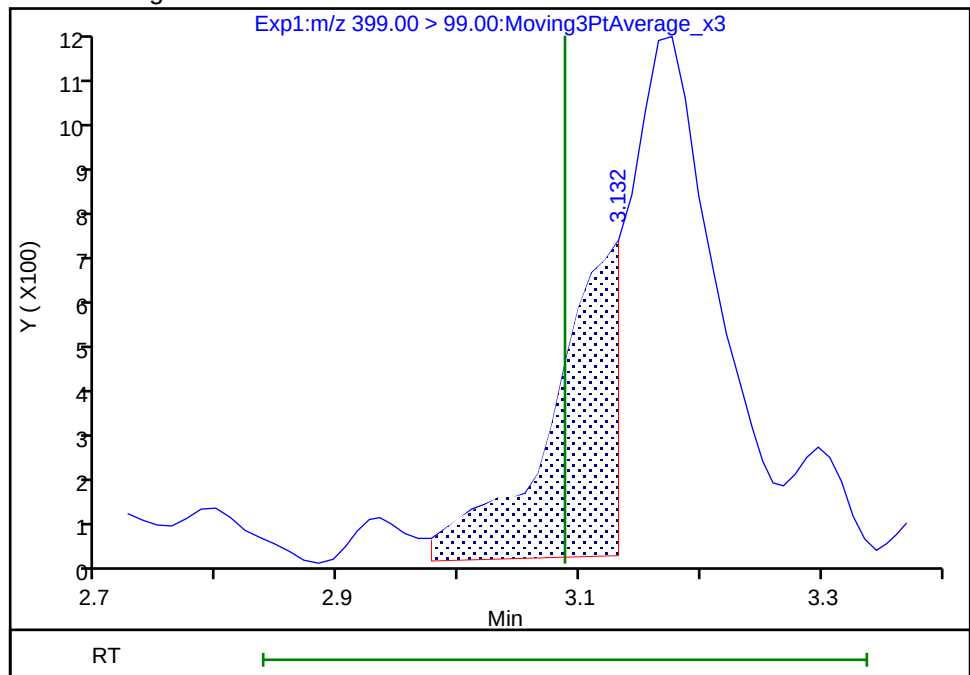
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 2379
Amount: 0.005527
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:29:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

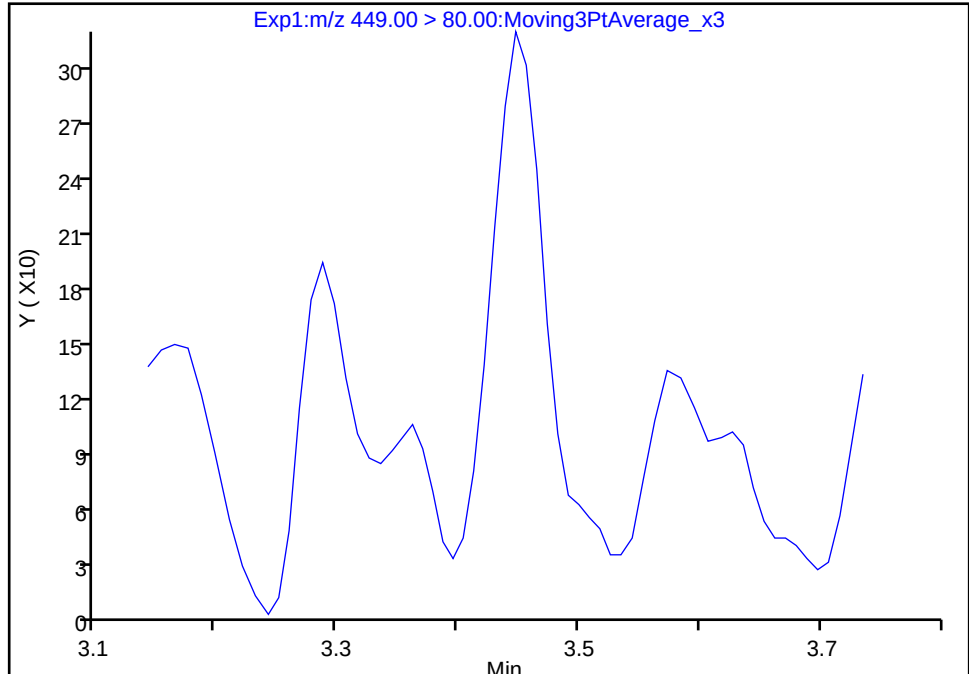
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

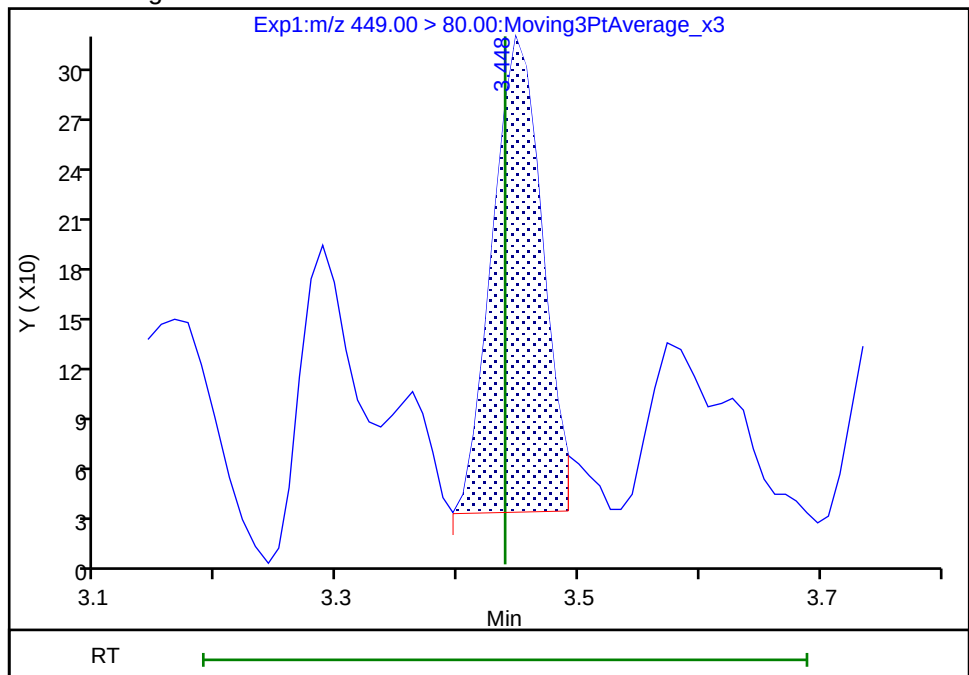
Signal: 1

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.45
Area: 807
Amount: 0.000705
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:29:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

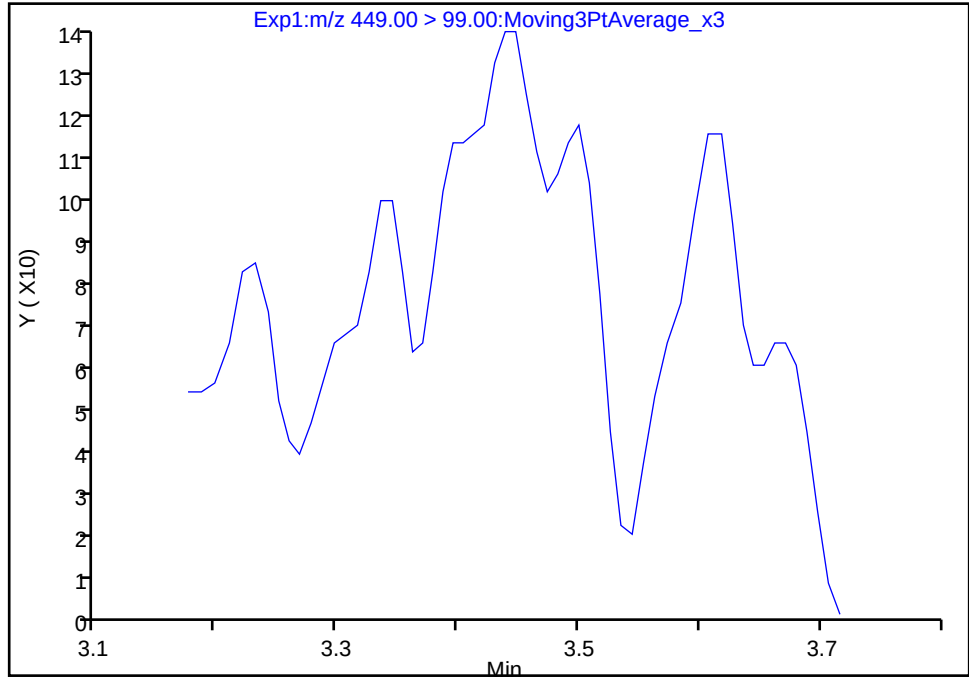
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

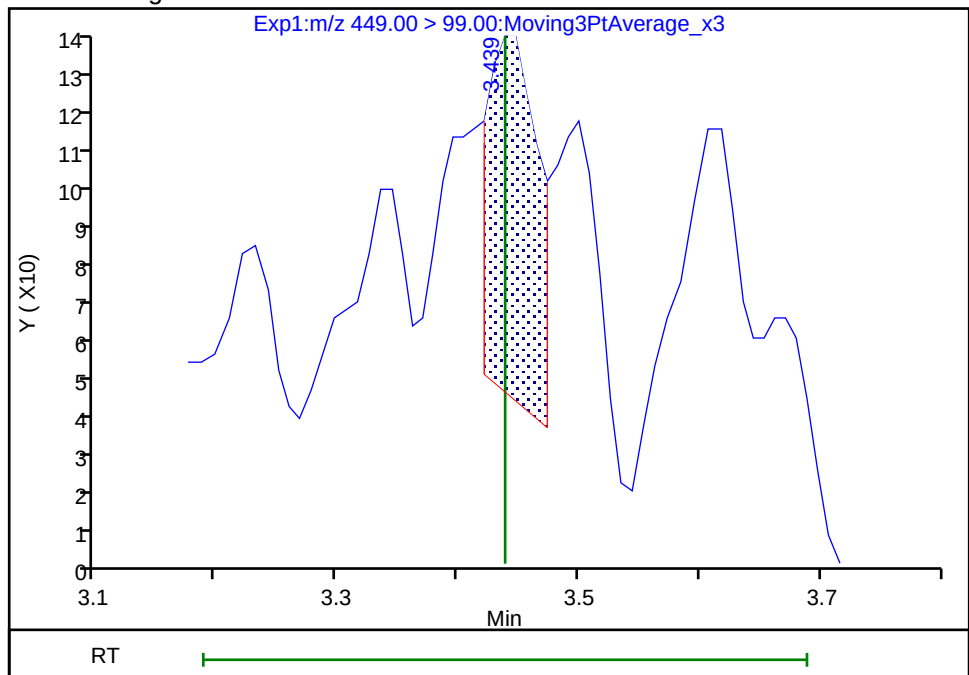
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 243
Amount: 0.000705
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:29:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

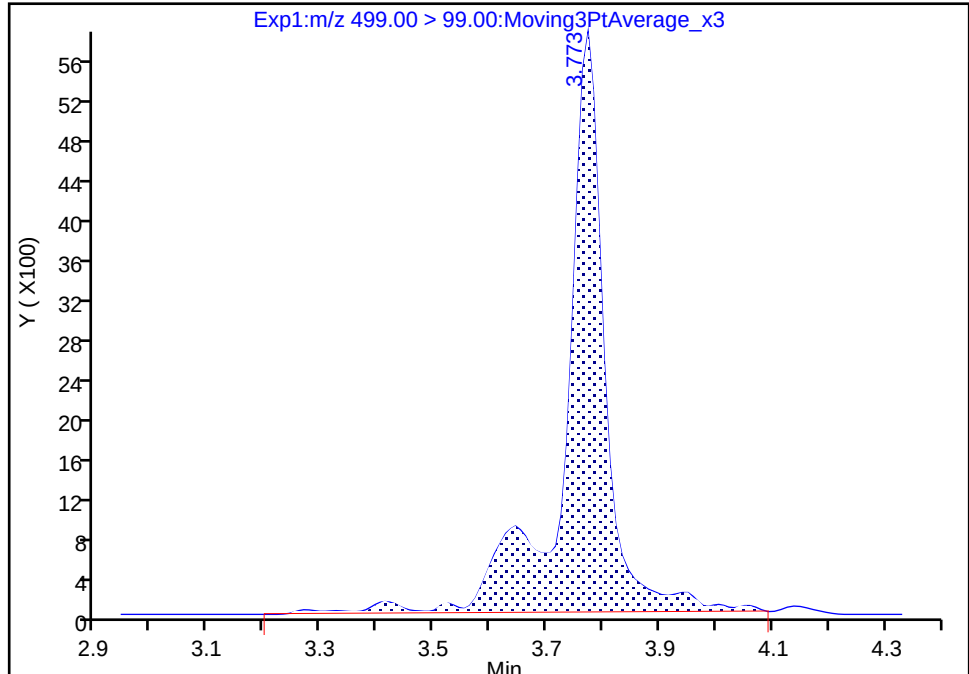
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	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

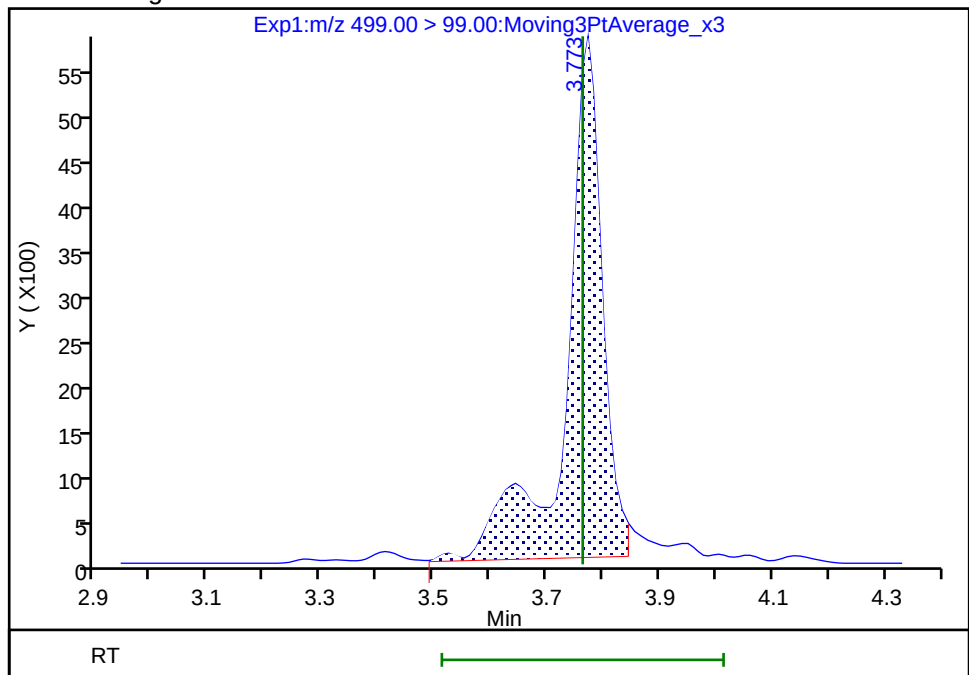
RT: 3.77
Area: 29773
Amount: 0.132392
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 26316
Amount: 0.121104
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:30:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

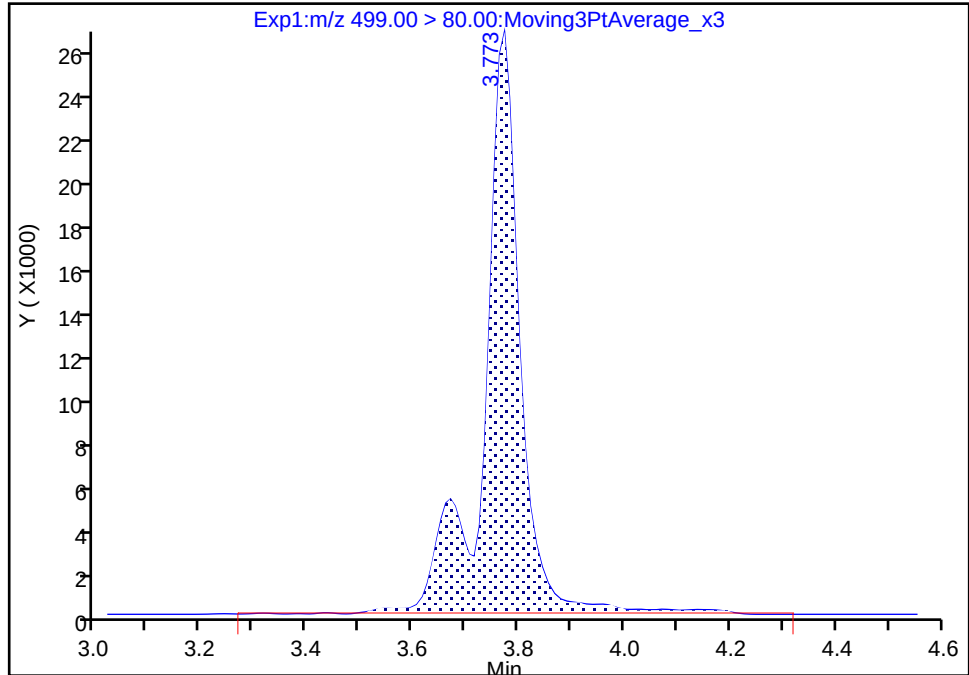
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

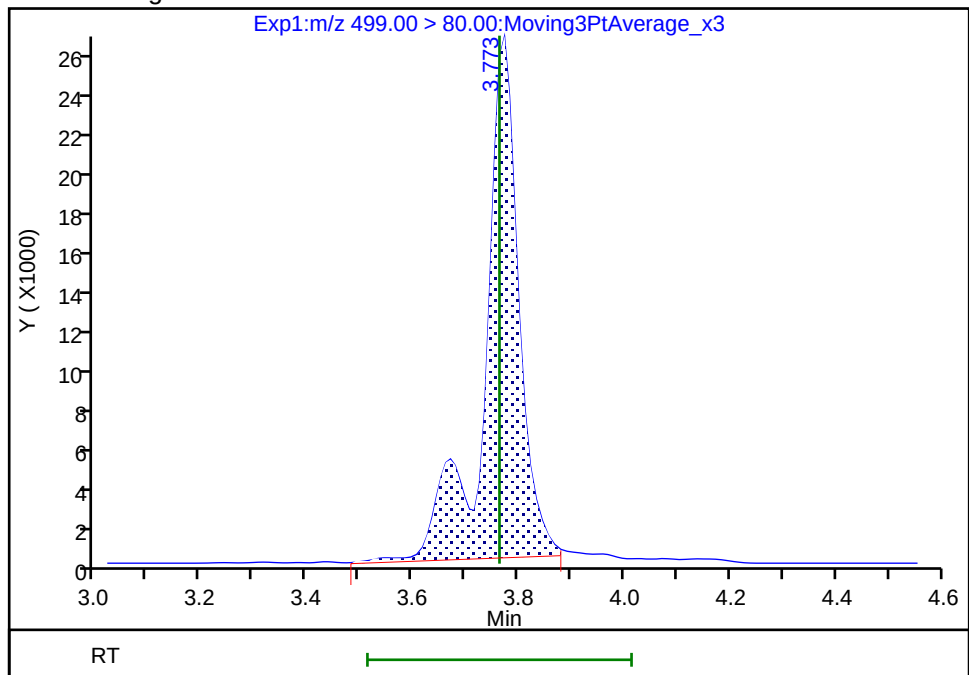
RT: 3.77
Area: 131911
Amount: 0.132392
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 120664
Amount: 0.121104
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:30:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

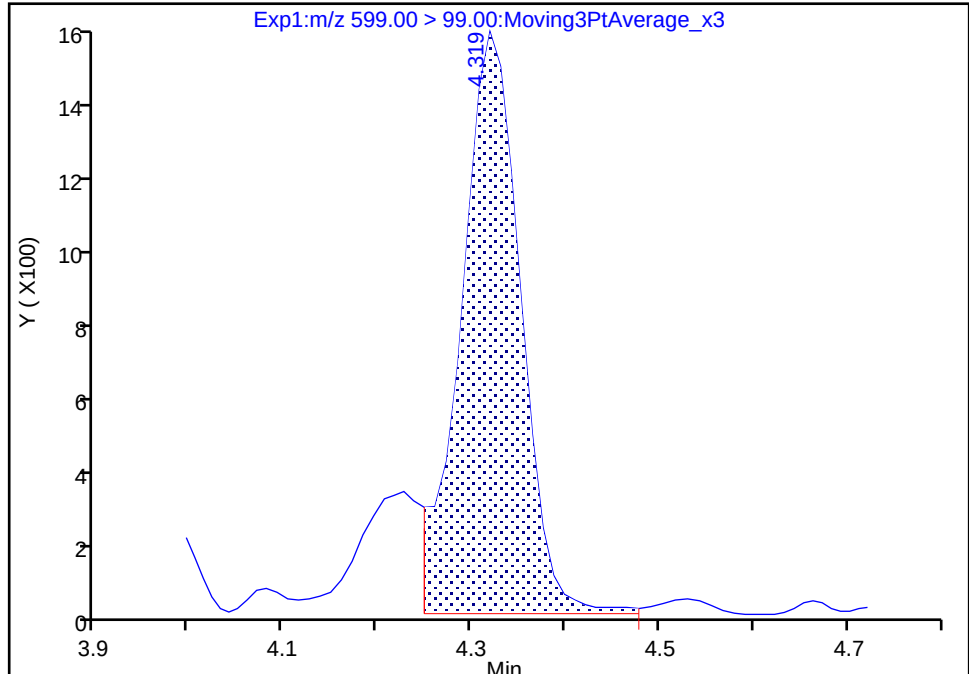
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

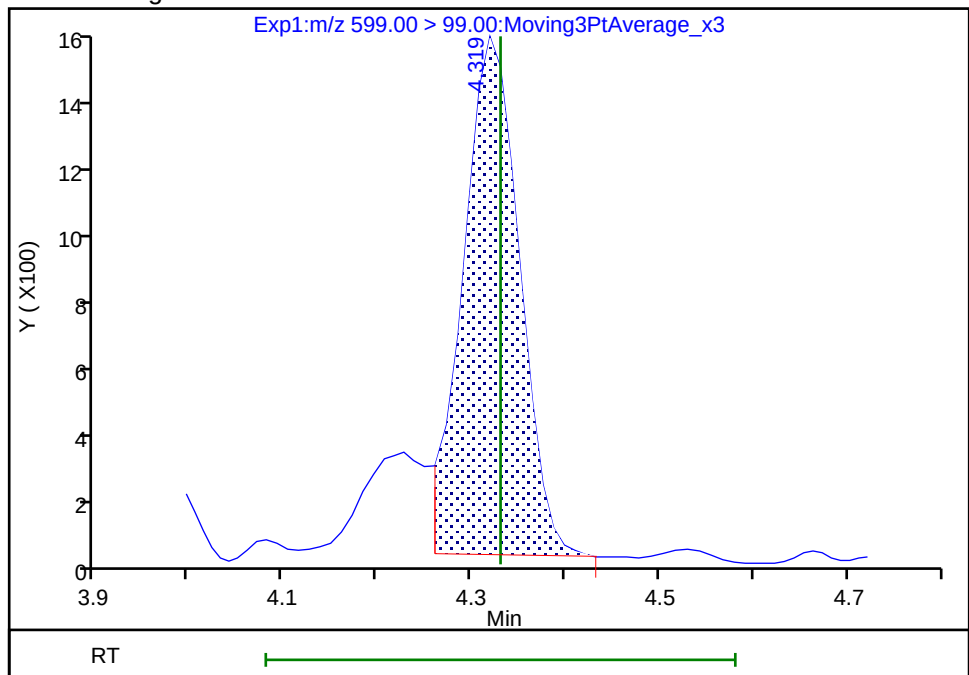
RT: 4.32
Area: 6618
Amount: 0.024005
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 6136
Amount: 0.023170
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:32:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

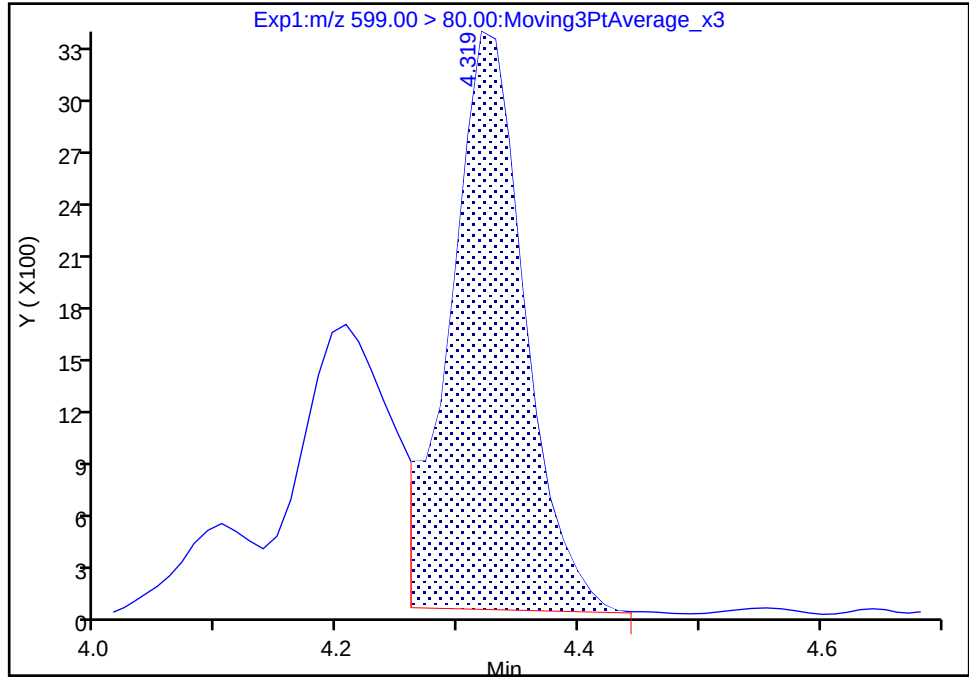
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

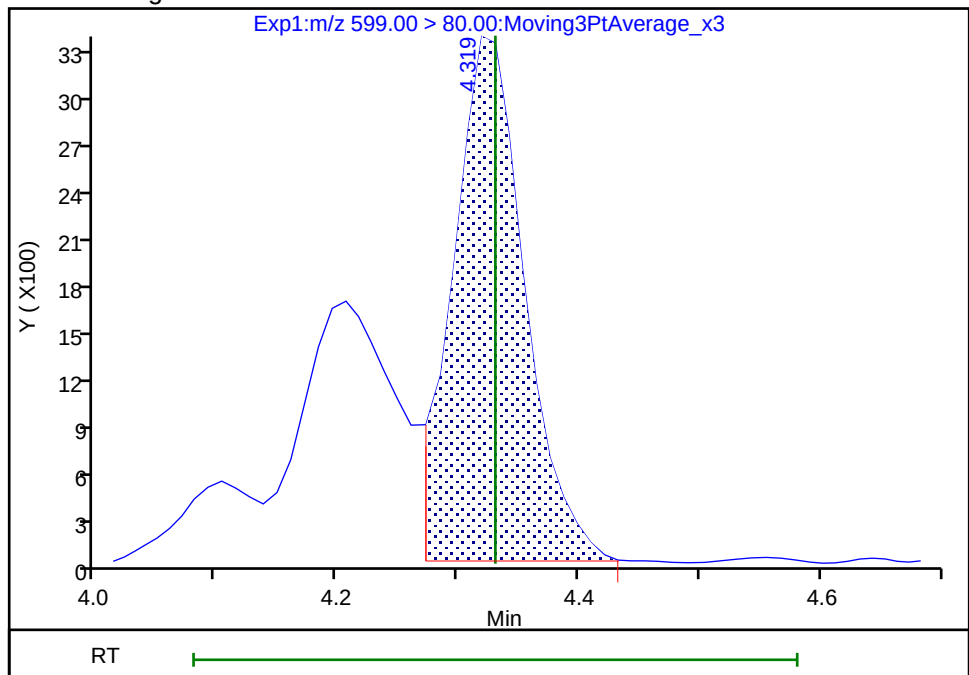
RT: 4.32
Area: 14254
Amount: 0.024005
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 13758
Amount: 0.023170
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:32:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

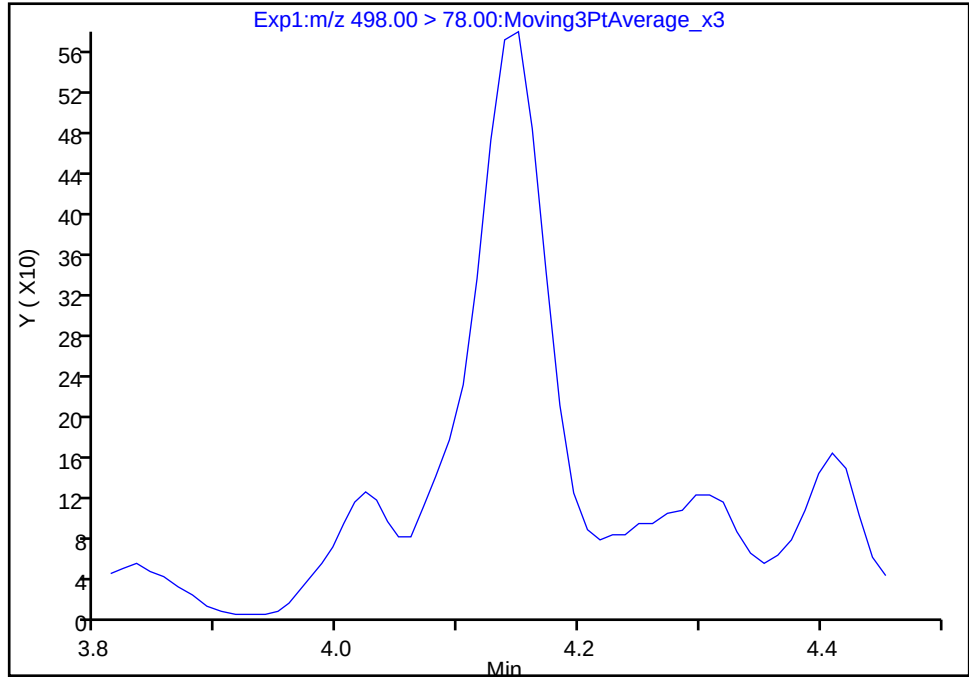
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

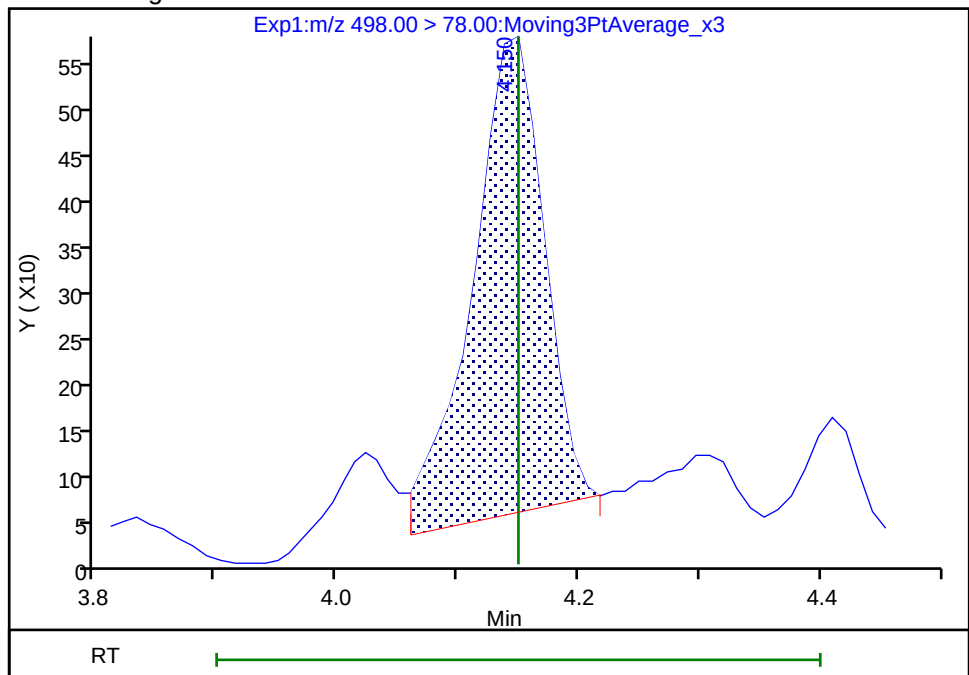
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.15
Area: 2137
Amount: 0.001460
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:31:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

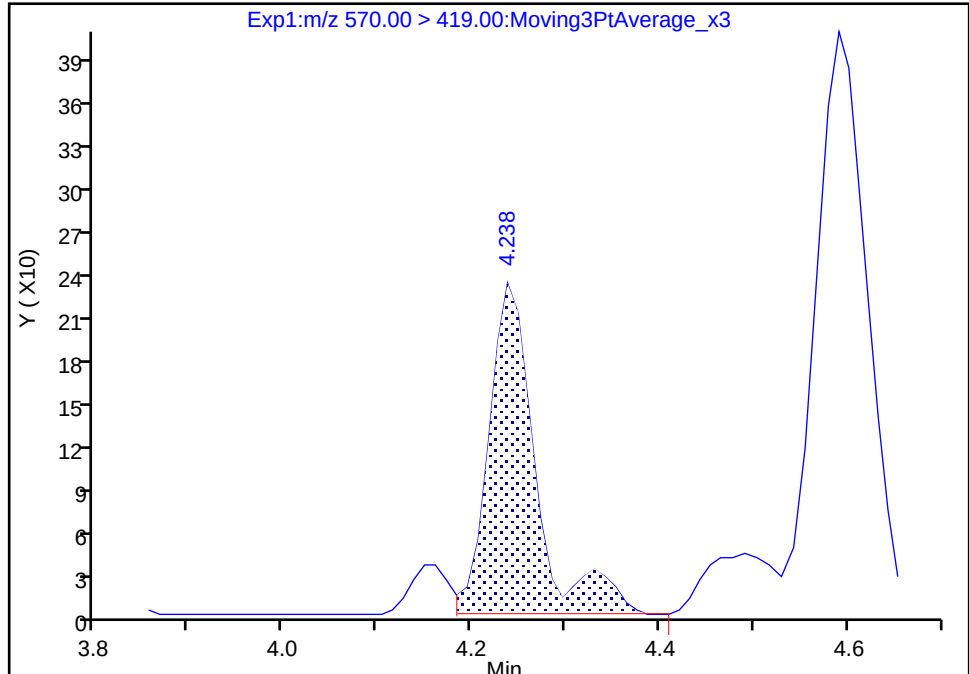
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	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

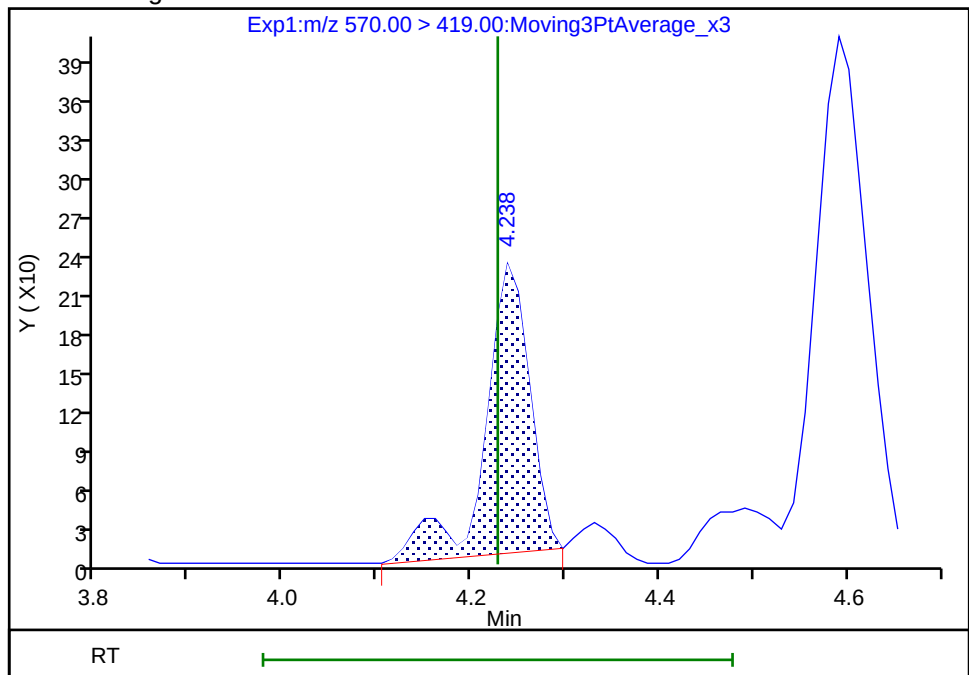
RT: 4.24
Area: 793
Amount: -0.009187
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 730
Amount: -0.009381
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:31:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

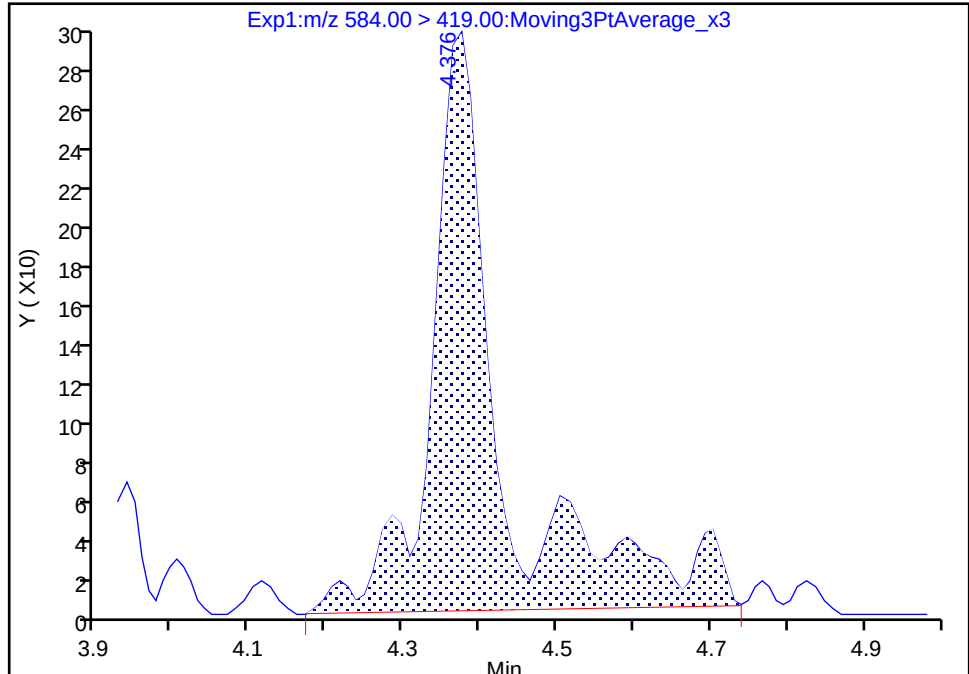
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	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

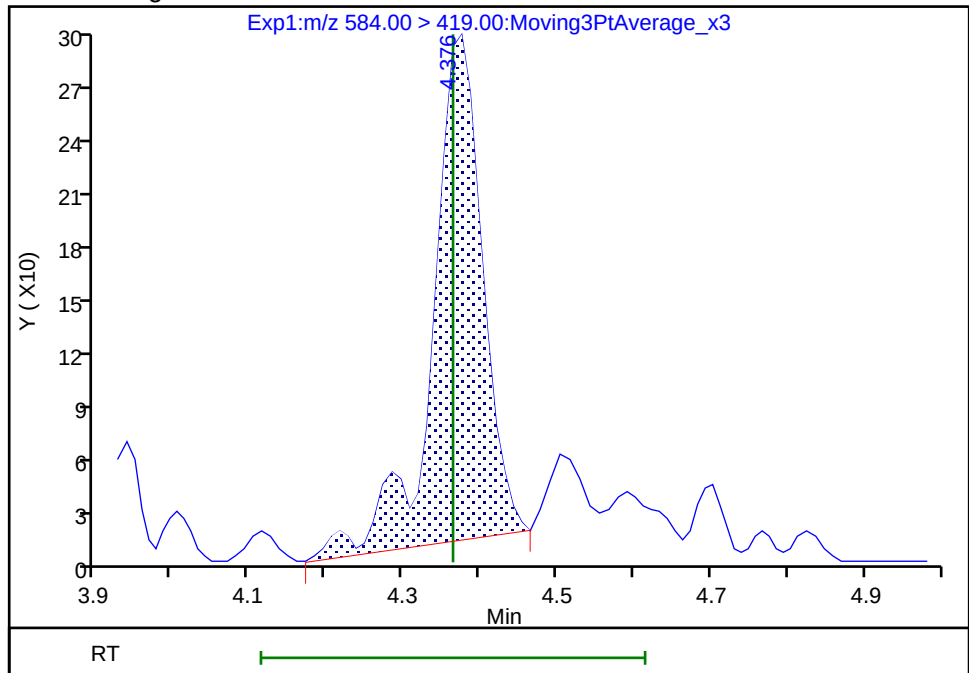
RT: 4.38
Area: 1874
Amount: 0.005688
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 1282
Amount: 0.003891
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:32:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

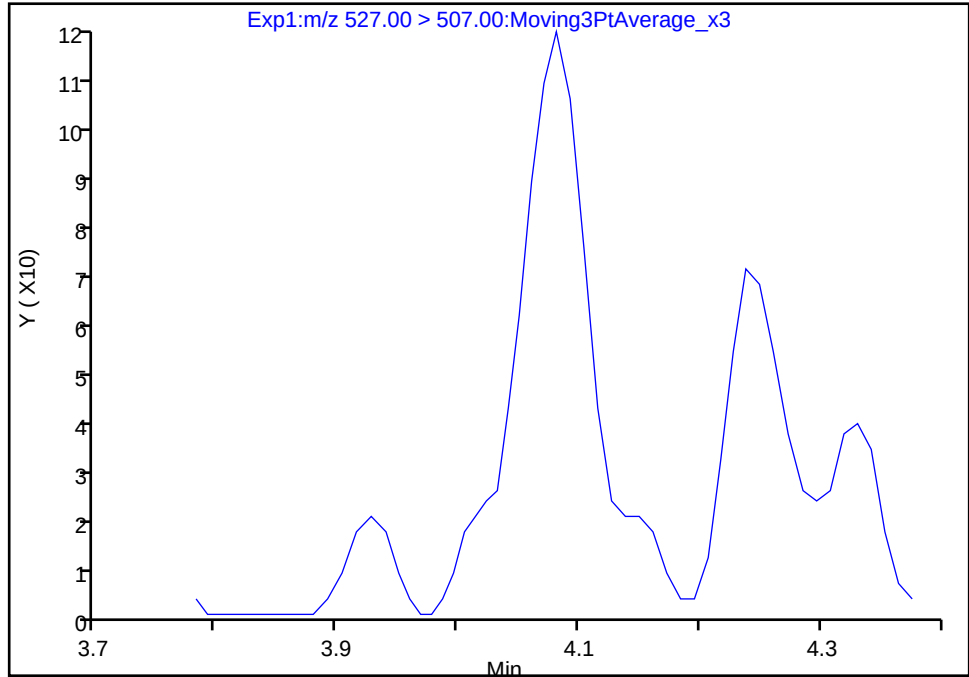
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

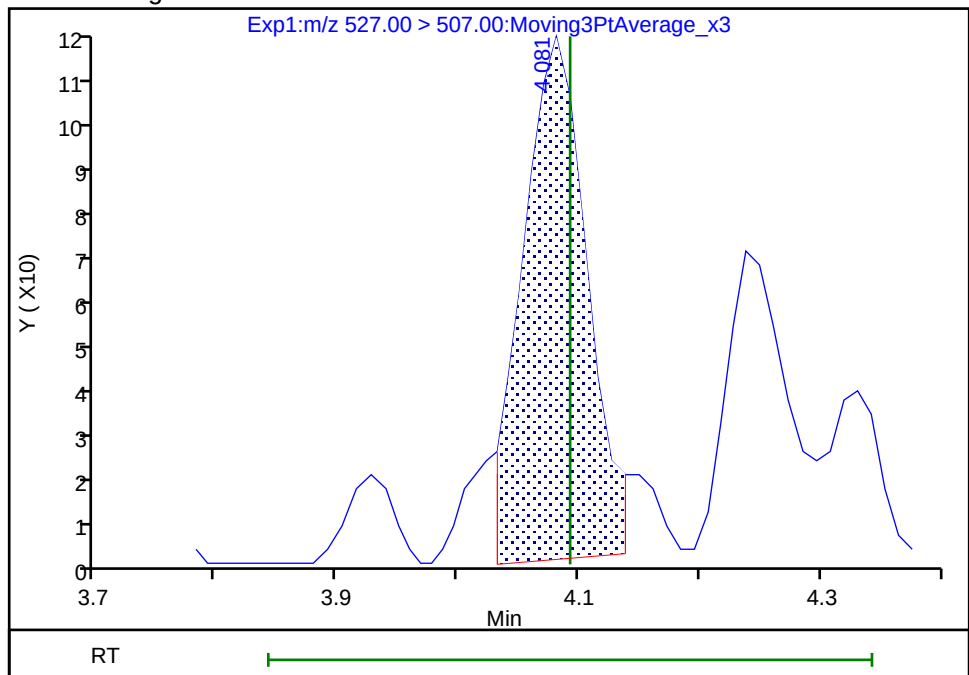
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.08
Area: 410
Amount: 0.001113
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:31:21
Audit Action: Manually IntegratedAudit Reason: Incomplete Integration
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Eurofins Burlington

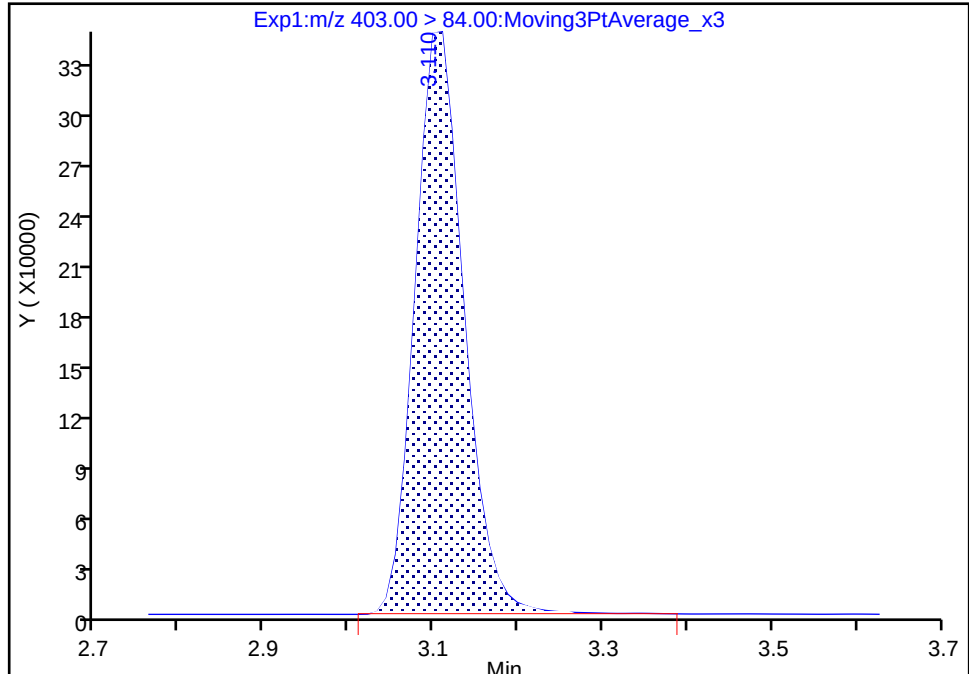
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

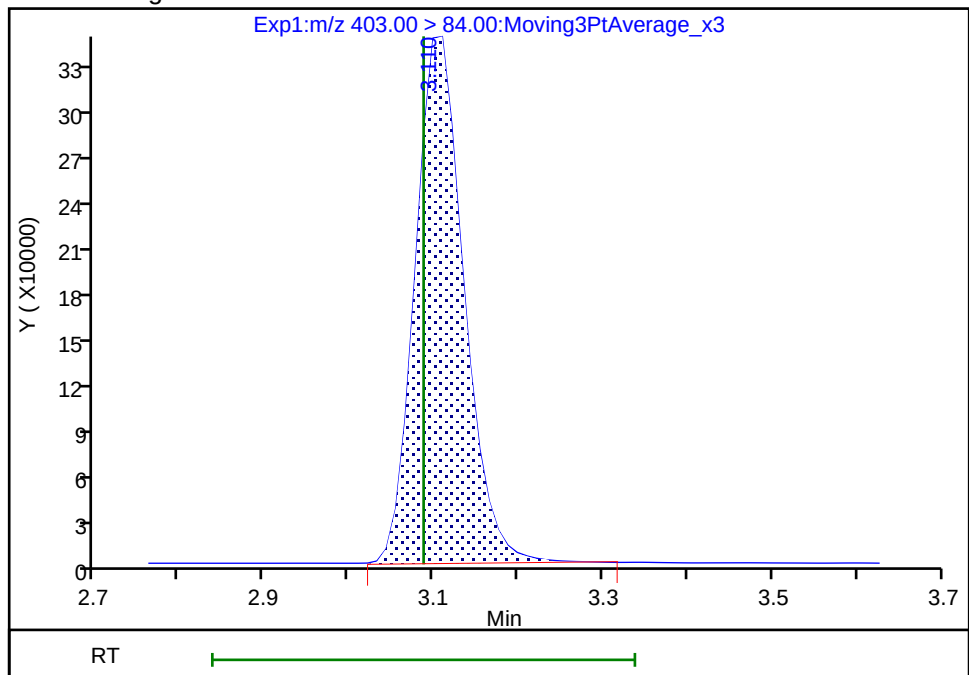
RT: 3.11
Area: 1400207
Amount: 1.084547
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 1395480
Amount: 1.080886
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:26:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

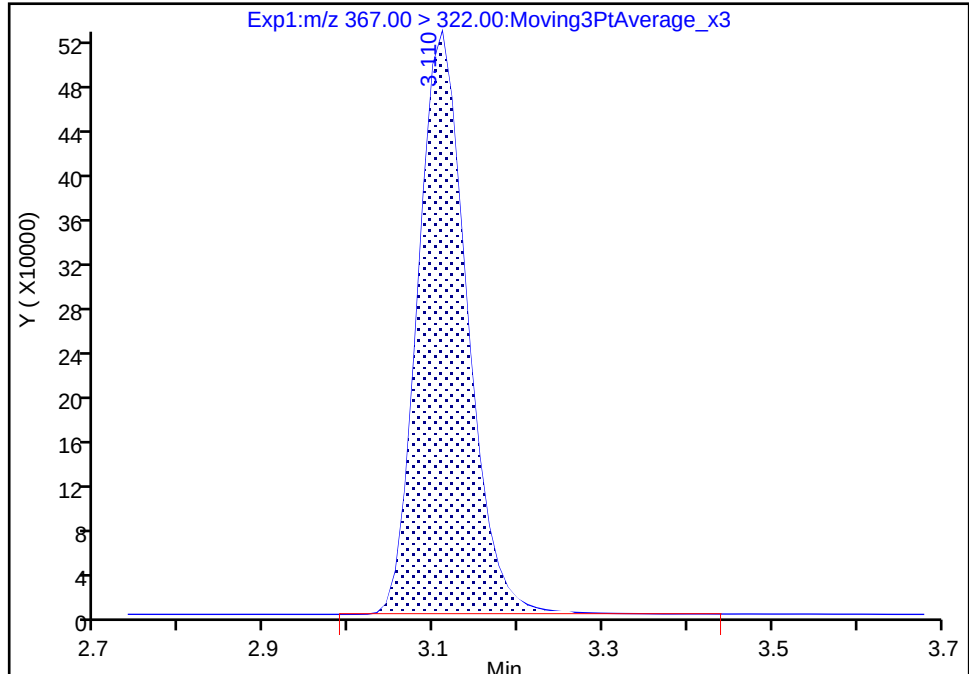
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

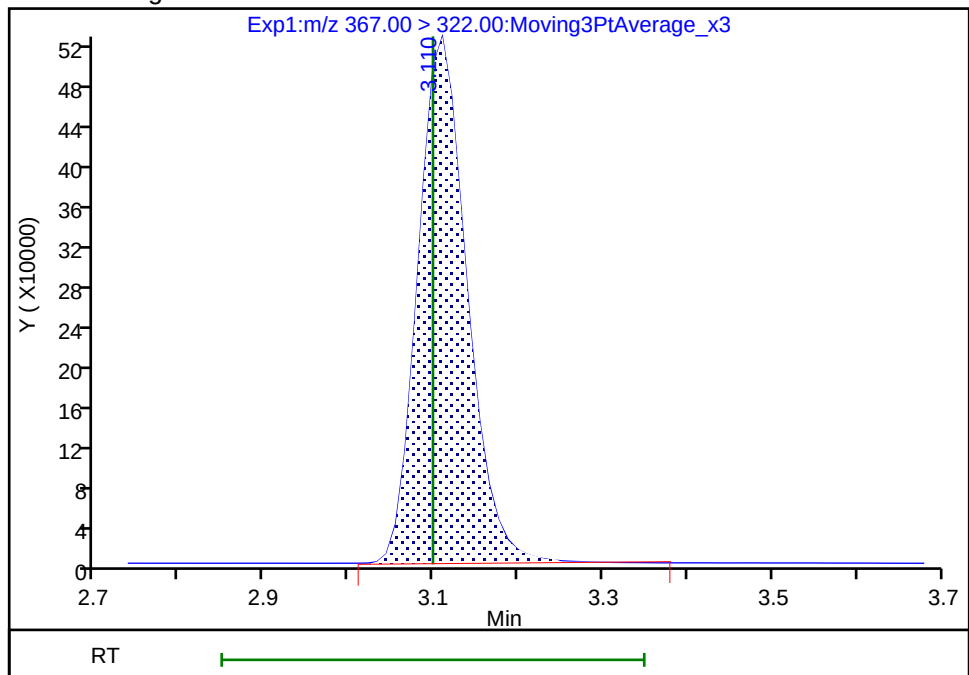
RT: 3.11
Area: 2121492
Amount: 1.206918
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 2119386
Amount: 1.205720
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:26:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

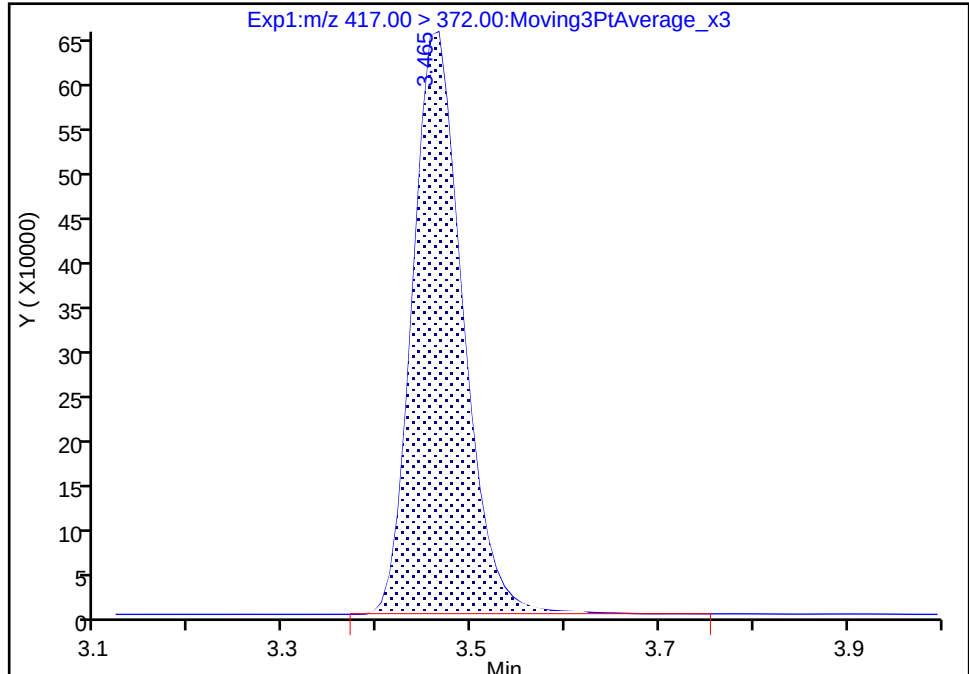
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

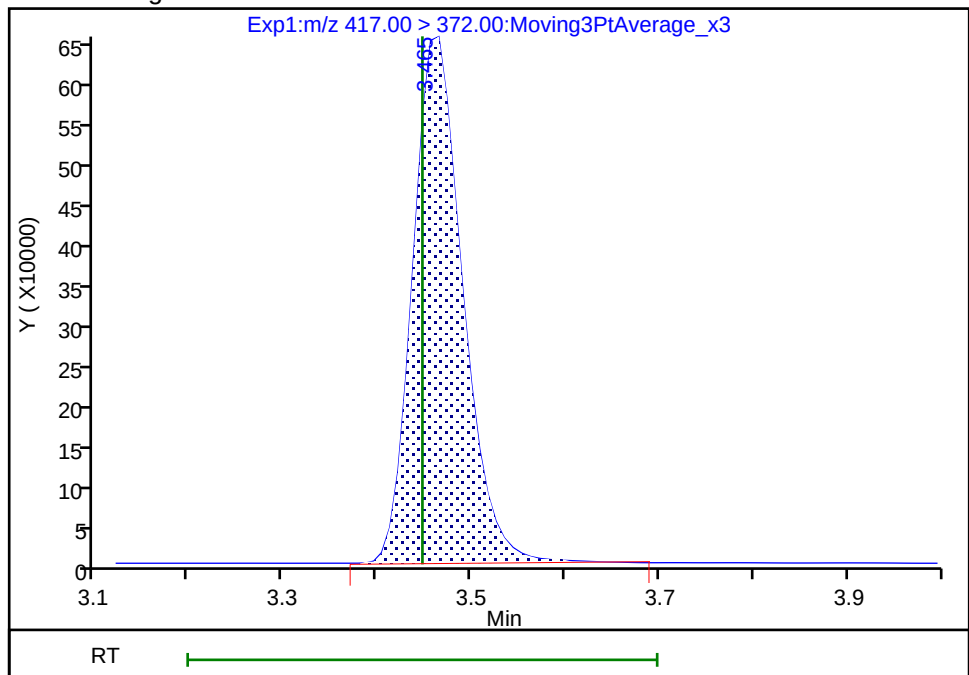
RT: 3.47
Area: 2441859
Amount: 1.235567
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 2439898
Amount: 1.234575
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:27:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

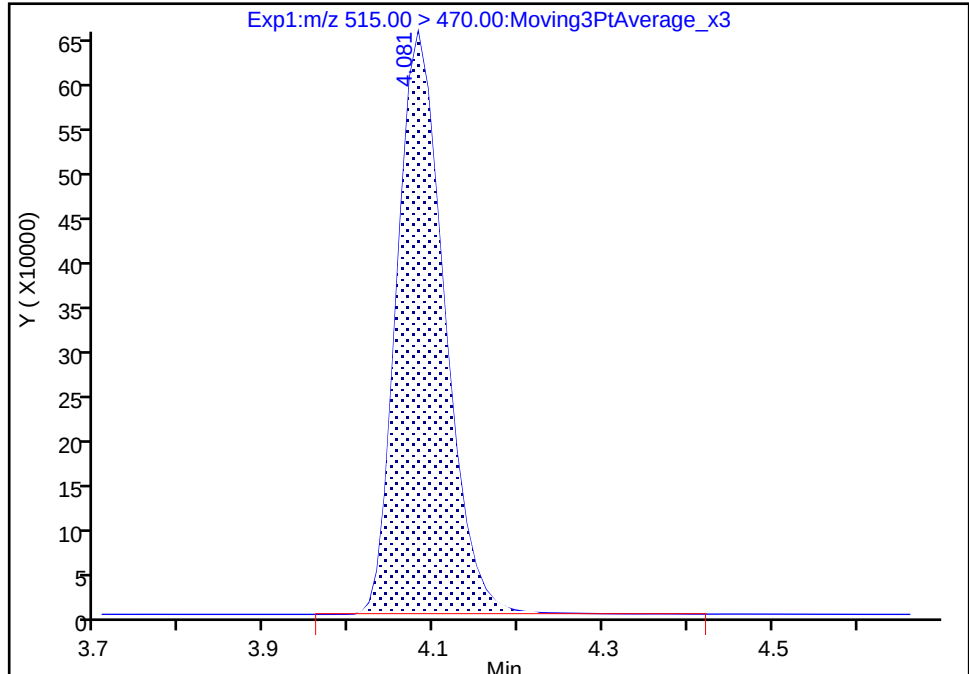
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d				
Injection Date:	16-Dec-2022 12:42:21	Instrument ID:	LC812		
Lims ID:	460-270642-A-1-A	Lab Sample ID:	200-270642-1		
Client ID:	BCS-21-09_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

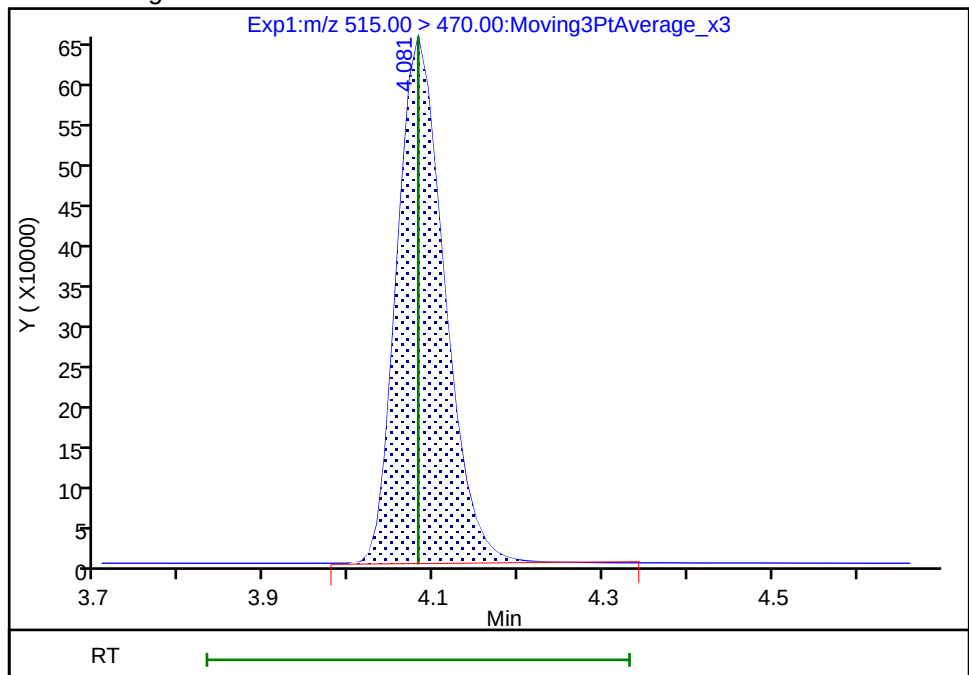
RT: 4.08
Area: 2569708
Amount: 1.313047
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2565519
Amount: 1.310906
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:27:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

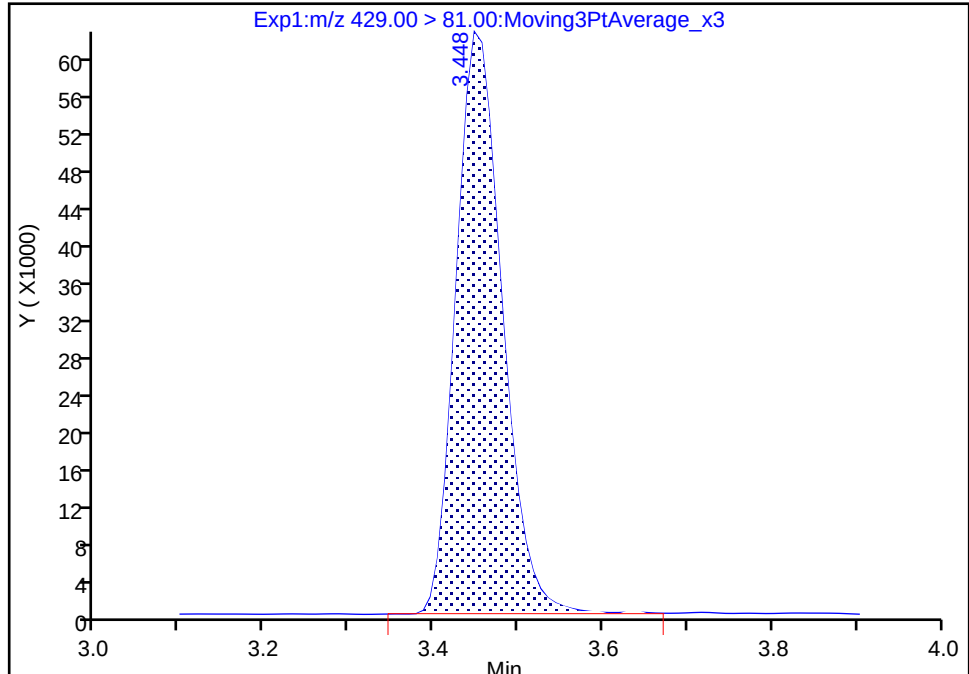
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A08.d
Injection Date: 16-Dec-2022 12:42:21 Instrument ID: LC812
Lims ID: 460-270642-A-1-A Lab Sample ID: 200-270642-1
Client ID: BCS-21-09_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

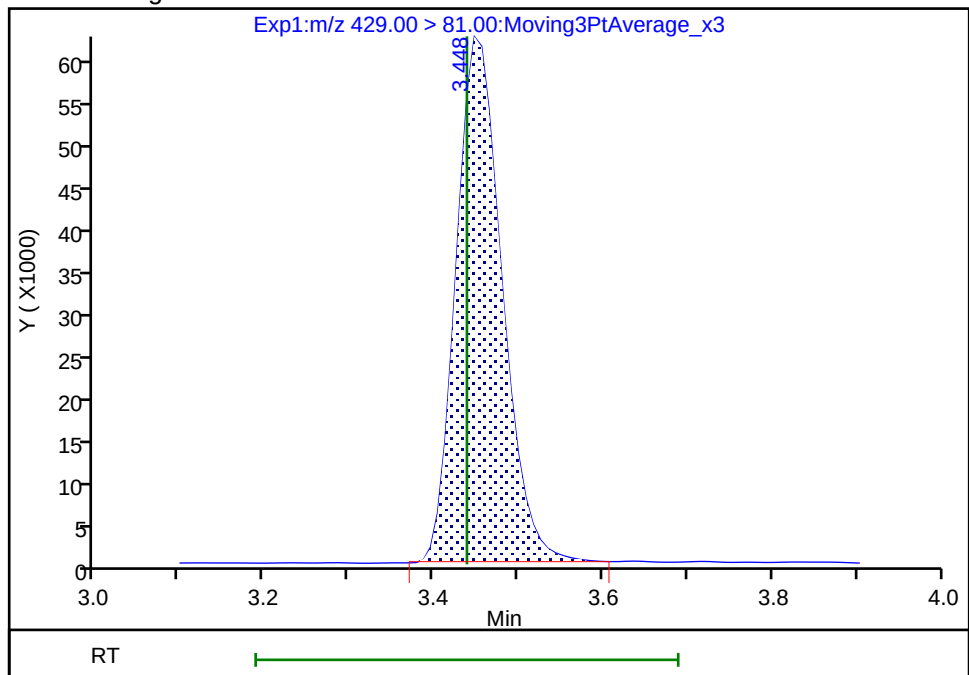
RT: 3.45
Area: 236586
Amount: 1.092804
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 235612
Amount: 1.088305
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:27:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: BCS-21-10_(10-10.5)P Lab Sample ID: 460-270642-2

Matrix: Solid Lab File ID: PA221216A09.d

Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:15

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.02(g) Date Analyzed: 12/16/2022 12:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 22.6 % Solids: 77.4 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.64	U	0.64	0.42
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.071
307-24-4	Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.059
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.050
335-67-1	Perfluorooctanoic acid (PFOA)	0.14	J	0.26	0.075
375-95-1	Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044
335-76-2	Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035
307-55-1	Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.032
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.032
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.033
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.042
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.053
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.024
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.57	U	2.57	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.57	U	2.57	0.11
27619-97-2	6:2 FTS	2.57	U	2.57	0.073
39108-34-4	8:2 FTS	2.57	U	2.57	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: BCS-21-10_(10-10.5)P Lab Sample ID: 460-270642-2
 Matrix: Solid Lab File ID: PA221216A09.d
 Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:15
 Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16
 Sample wt/vol: 5.02(g) Date Analyzed: 12/16/2022 12:50
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 22.6 % Solids: 77.4 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	89		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	96		50-150
STL00991	13C4 PFOS	88		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	77		50-150
STL00993	13C2 PFHxA	95		50-150
STL00996	13C2 PFDA	103		50-150
STL00997	13C2 PFUnA	98		50-150
STL00998	13C2 PFDoA	95		50-150
STL01056	13C8 FOSA	87		50-150
STL01893	13C5 PFPeA	86		50-150
STL02116	13C2 PFTeDA	95		50-150
STL02118	d3-NMeFOSAA	92		50-150
STL02117	d5-NEtFOSAA	94		50-150
STL02279	M2-6:2 FTS	88		50-150
STL02280	M2-8:2 FTS	92		50-150
STL02337	13C3 PFBS	85		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
 Lims ID: 460-270642-A-2-A
 Client ID: BCS-21-10_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Dec-2022 12:50:31 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-270642-A-2-A
 Misc. Info.: 200-0053717-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw Date: 19-Dec-2022 09:39:56

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	2.086	2.076	0.010	0.603	2125046	0.9615		76.9	8139	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.076	0.010	1.000	75615	0.0431			6.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.389	2.387	0.002	0.690	1804053	1.07		85.7	2652	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.389	2.387	0.002	1.000	21146	0.0134			0.6	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.402	2.400	0.002	0.694	1813659	0.99		85.3	205182	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.415	2.400	0.015	1.006	4124	0.002310	Target=2.09		5.8	M
298.90 > 99.00	2.402	2.400	0.002	1.000	1328		3.11(1.04-3.13)		0.7	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.740	2.725	0.015	0.792	2090992	1.19		94.8	5200	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.740	2.725	0.015	1.000	17560	0.009634	Target=14.25		3.5	M
313.00 > 119.00	2.728	2.725	0.003	0.996	1253		14.01(7.12-21.37)		2.6	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.103	3.088	0.015	0.897	1401372	1.05		89.0	2046	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.103	3.088	0.015	1.000	7643	0.005714	Target=3.66		24.5	
399.00 > 99.00	3.092	3.088	0.004	0.996	2414		3.17(1.83-5.49)		2.8	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.103	3.099	0.004	0.897	2218904	1.22		97.9	2866	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.103	3.099	0.004	1.000	13707	0.007092	Target=3.97		3.1	M
363.00 > 169.00	3.114	3.099	0.015	1.004	4295		3.19(1.98-5.95)		10.9	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.443	3.439	0.004	0.995	234692	1.05		88.5	591	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.443	3.439	0.004	1.000	1067	-0.009317			3.3	M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.460	3.439	0.021	0.918	994	0.000892	Target=5.14		3.6	RM
449.00 > 99.00	3.452	3.439	0.013	0.916	470		2.11(2.57-7.72)		2.1	M
D 14 13C4 PFOA										
417.00 > 372.00	3.460	3.448	0.012	1.000	2448583	1.20		96.0	3373	
* 62 13C2 PFOA										
415.00 > 370.00	3.460	3.448	0.012		2463055	1.25			2499	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.460	3.448	0.012	1.000	114639	0.0547	Target=2.79		9.0	M
413.00 > 169.00	3.460	3.448	0.012	1.000	43012		2.67(1.40-4.19)		81.2	M
D 18 13C4 PFOS										
503.00 > 80.00	3.767	3.764	0.003	1.089	953718	1.06		88.3	2419	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.777	3.764	0.013	1.003	31335	0.0323	Target=5.11		24.1	M
499.00 > 99.00	3.767	3.764	0.003	1.000	8710		3.60(2.55-7.66)		17.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.783	0.003	1.094	2420612	1.22		97.7	3820	
D 23 13C2 PFDA										
515.00 > 470.00	4.096	4.081	0.015	1.184	2607877	1.29		103	5347	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.084	4.081	0.003	0.997	4479	0.001980	Target=10.26		1.6	M
513.00 > 169.00	4.074	4.081	-0.007	0.995	789		5.68(5.13-15.38)		2.3	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.096	4.093	0.003	1.184	302187	1.11		92.3	1181	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.141	4.150	-0.009	0.997	673	0.000445			4.1	M
D 21 13C8 FOSA										
506.00 > 78.00	4.153	4.150	0.003	1.200	1809257	1.09		87.4	2059	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.231	4.228	0.003	1.223	474913	1.15		92.4	2055	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.231	4.228	0.003	1.000	270	-0.0108			0.9	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.335	4.331	0.004	1.151	862	0.001490	Target=2.51		12.2	M
599.00 > 99.00	4.346	4.331	0.015	1.154	295		2.92(1.25-3.76)		2.1	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.357	4.353	0.004	1.259	2275166	1.23		98.4	2457	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.368	4.353	0.015	1.003	1791	0.000976	Target=9.88		1.0	RM
563.00 > 169.00	4.368	4.353	0.015	1.003	412		4.35(4.94-14.82)		5.2	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.231	4.365	-0.134	0.968	185	0.000545			1.2	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	4.368	4.365	0.003	1.262	473874	1.17		93.6	928	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.603	4.591	0.012	1.002	3681	0.001948	Target=7.77		0.4	M
613.00 > 169.00	4.614	4.591	0.023	1.005	493		7.47(3.89-11.66)		4.9	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.593	4.591	0.002	1.327	2229115	1.18		94.6	2810	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.814	4.804	0.010	1.048	2241	0.001240	Target=5.21		0.3	M
663.00 > 169.00	4.814	4.804	0.010	1.048	289		7.75(2.60-7.81)		2.4	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.013	5.012	0.001	1.000	536	0.002541	Target=0.89		6.7	M
713.00 > 219.00	5.013	5.012	0.001	1.000	419		1.28(0.44-1.33)		6.4	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.013	5.012	0.001	1.449	1926122	1.18		94.6	5096	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d

Injection Date: 16-Dec-2022 12:50:31

Instrument ID: LC812

Lims ID: 460-270642-A-2-A

Lab Sample ID: 200-270642-2

Client ID: BCS-21-10_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

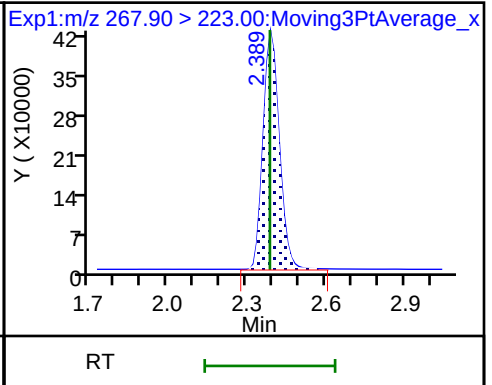
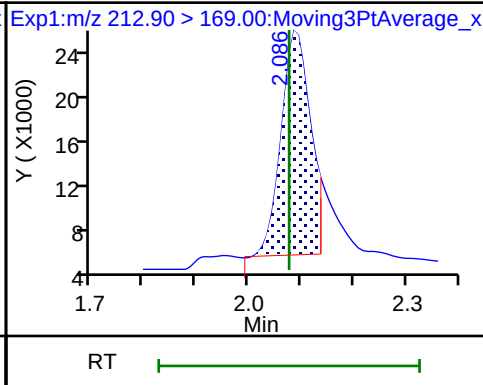
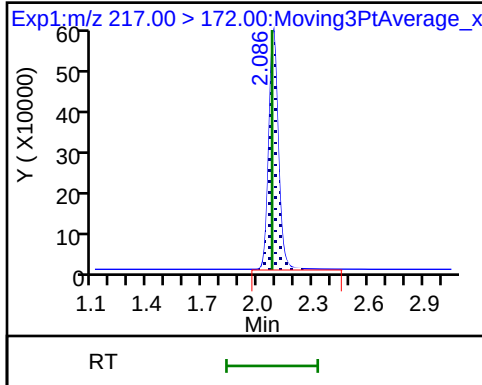
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

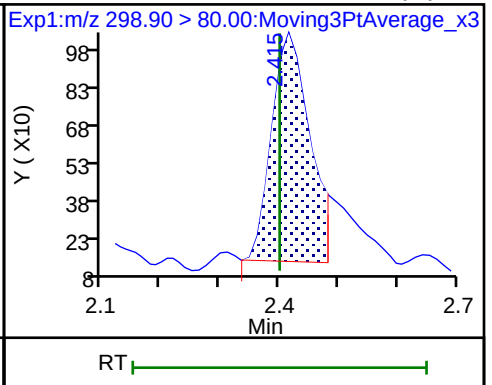
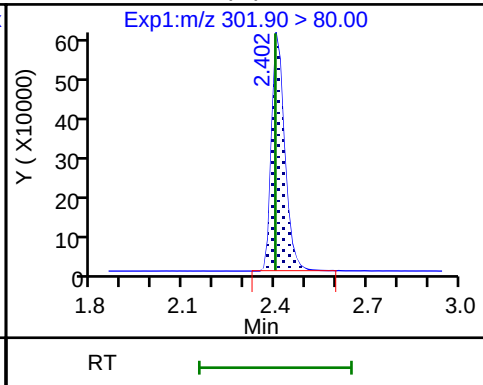
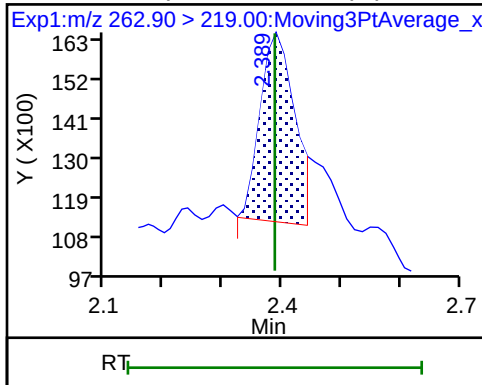
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

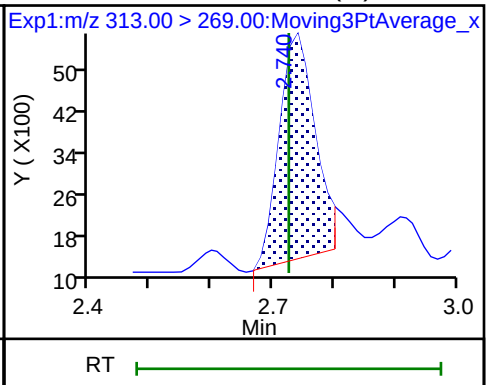
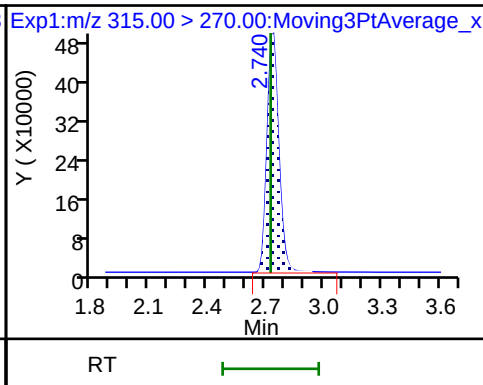
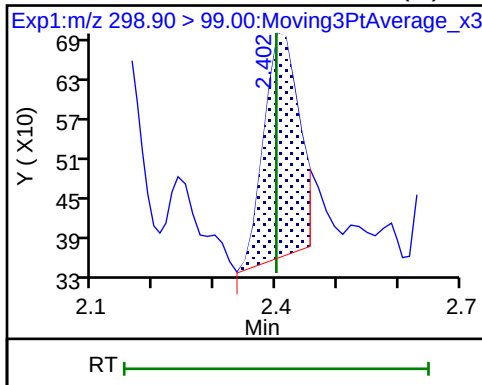
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

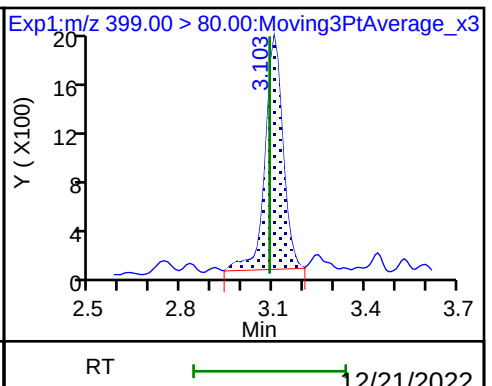
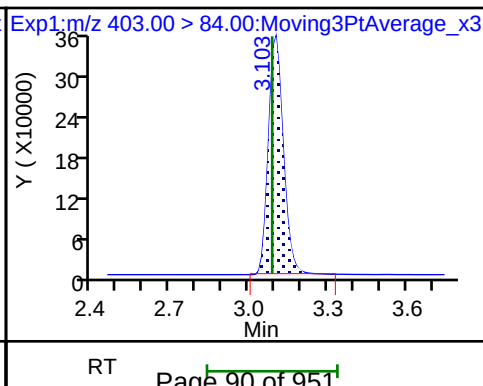
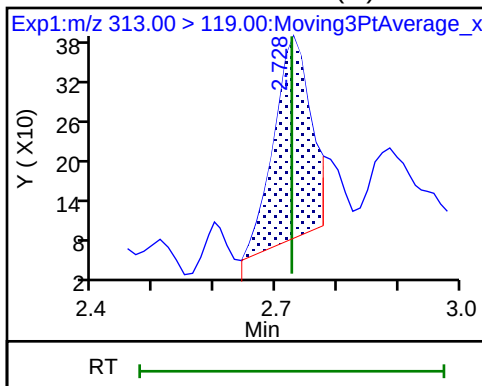
6 Perfluorohexanoic acid (M)

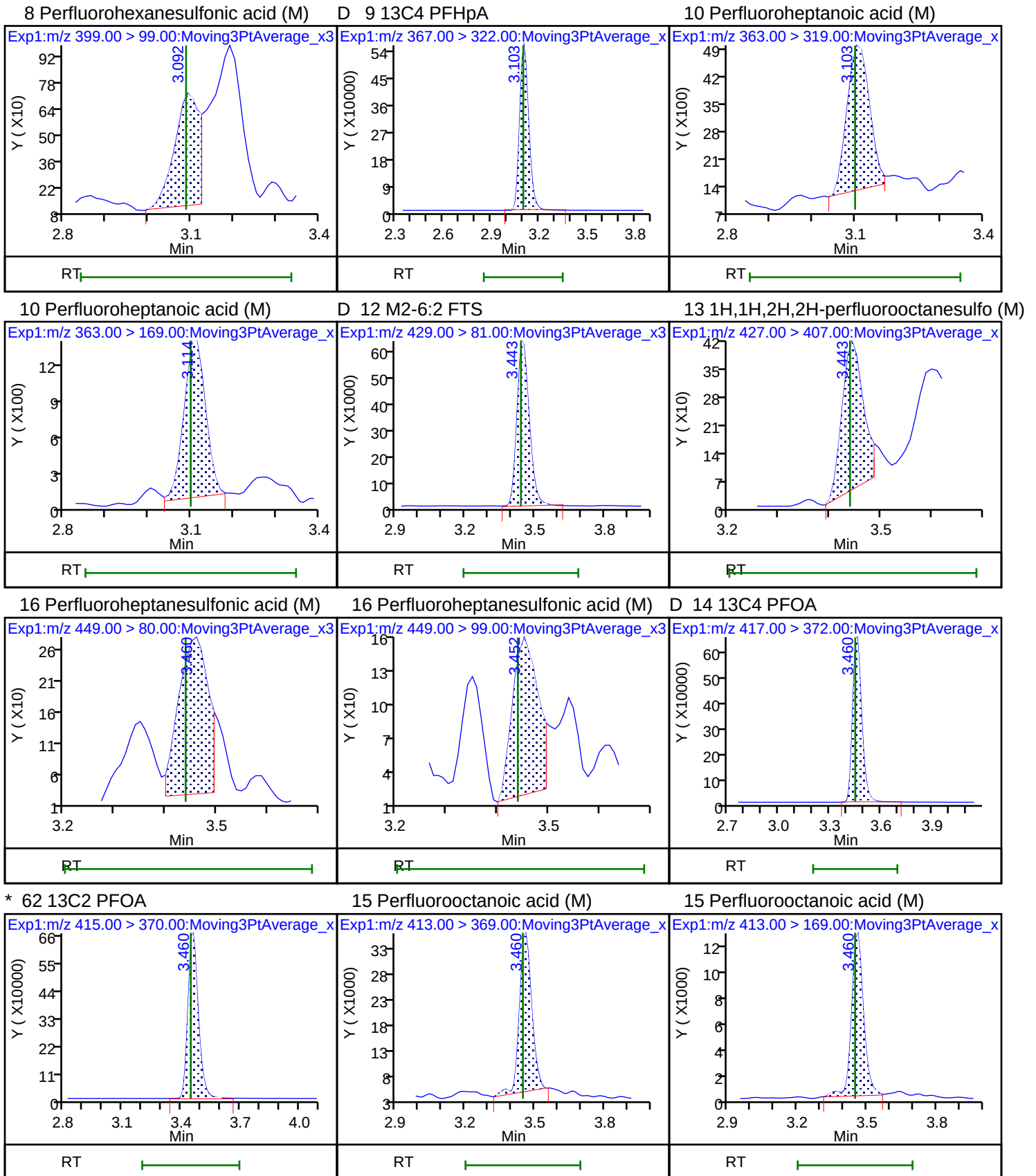


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid

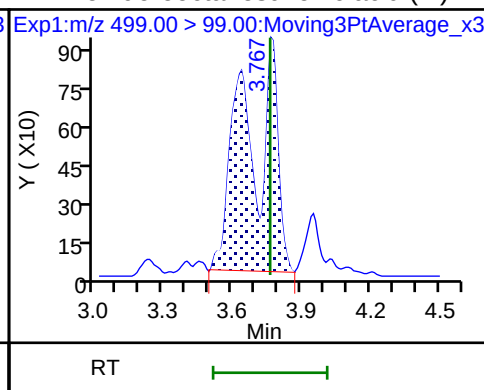
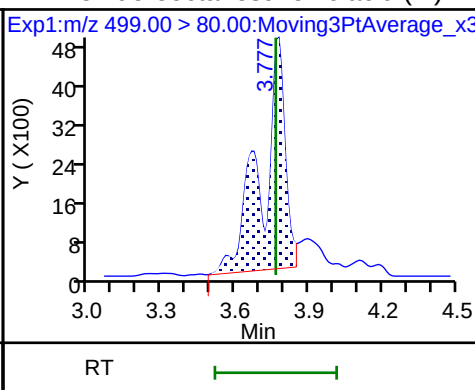
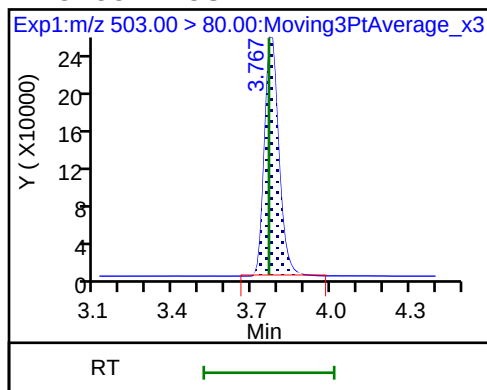




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

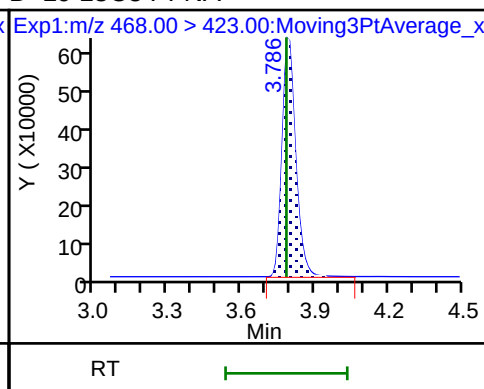
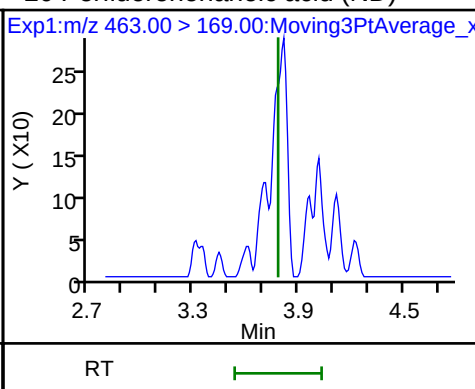
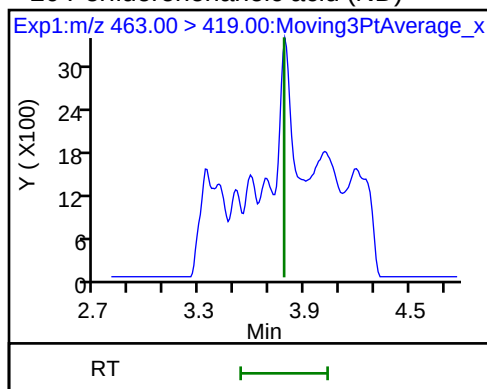
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

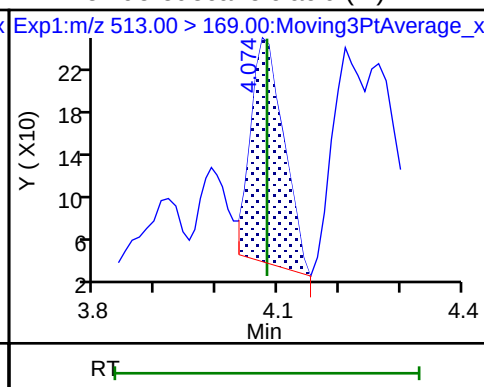
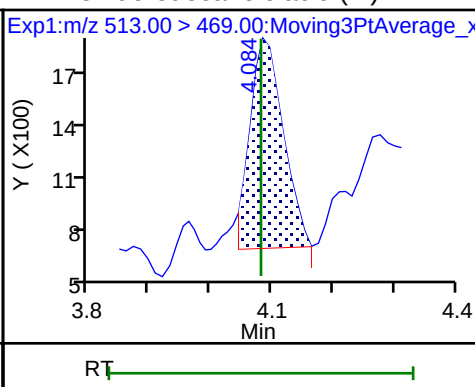
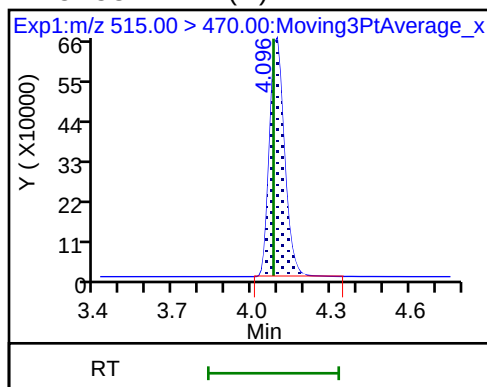
D 19 13C5 PFNA



D 23 13C2 PFDA (M)

24 Perfluorodecanoic acid (M)

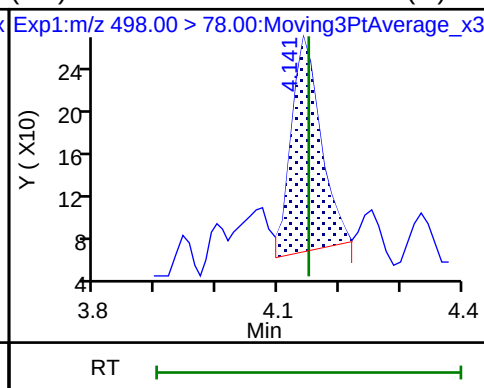
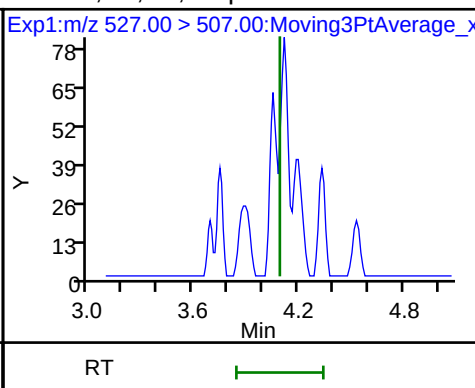
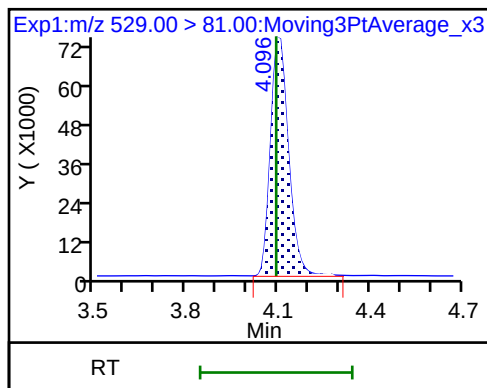
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

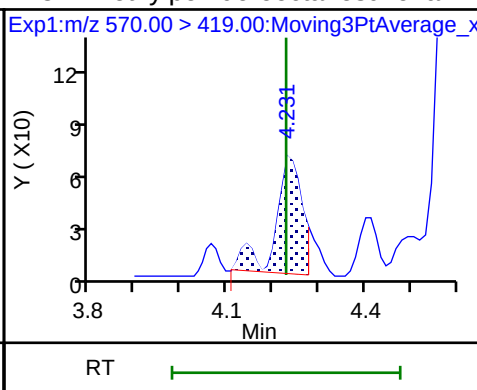
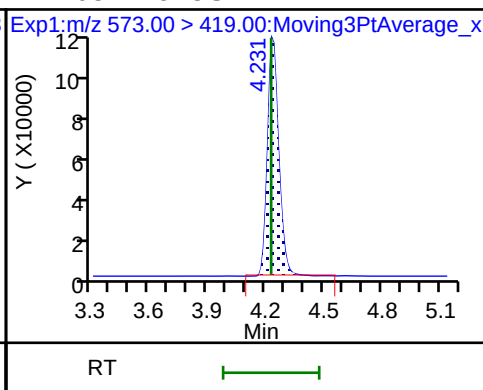
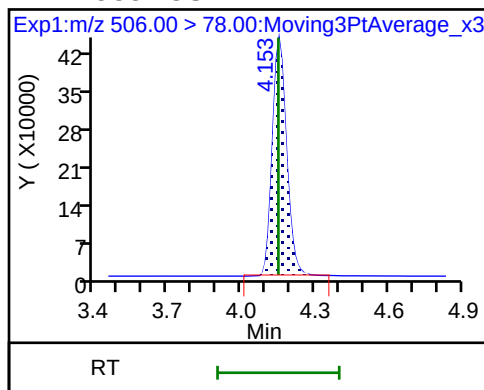
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

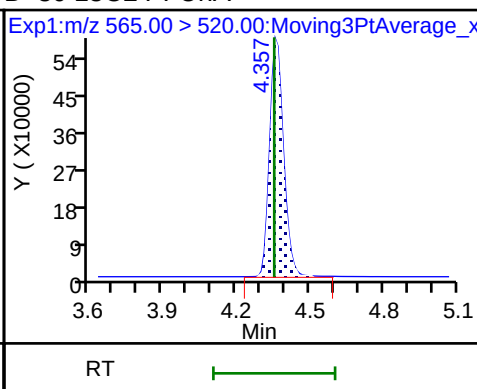
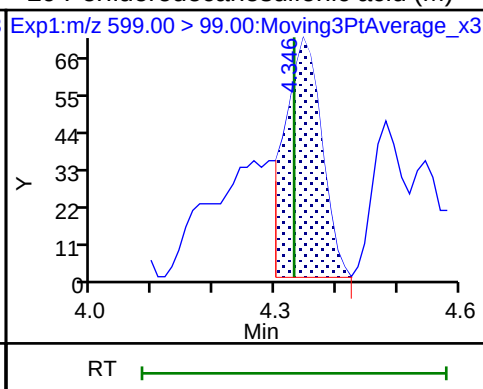
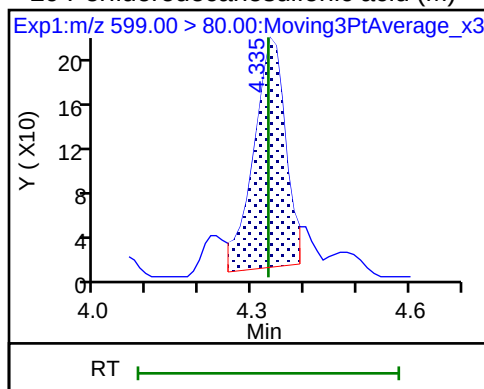
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

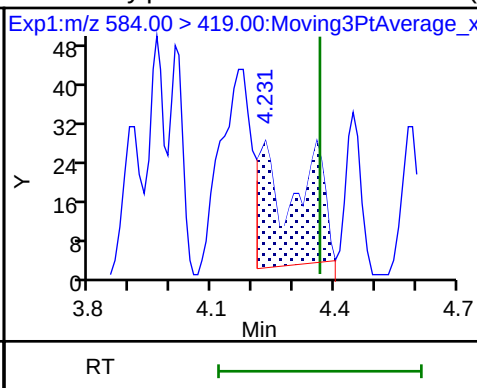
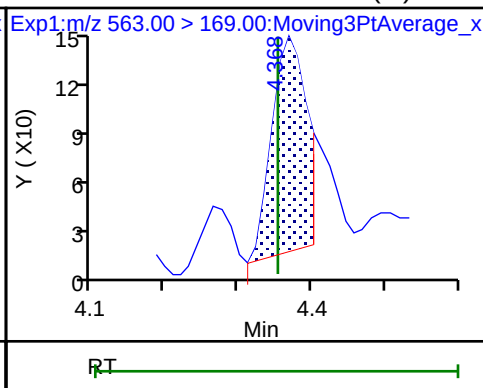
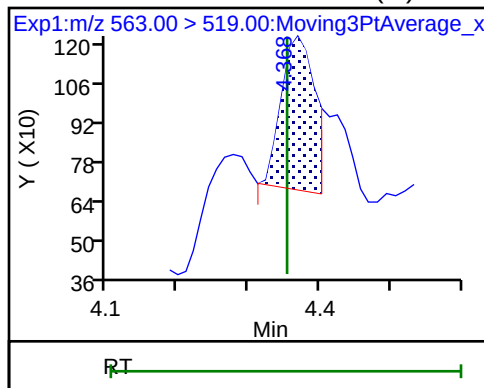
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

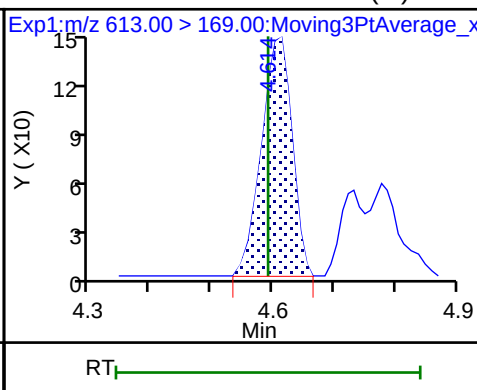
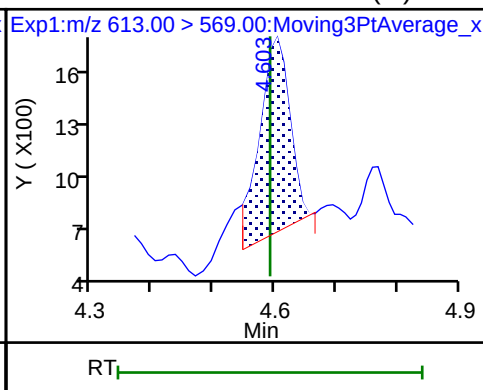
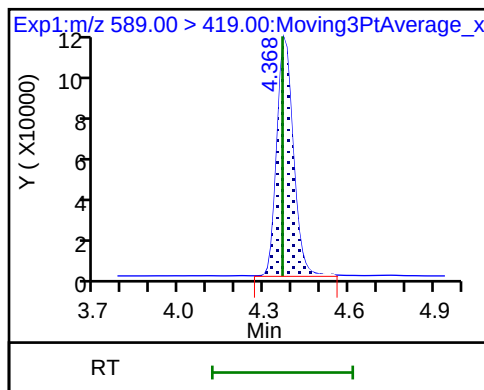
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

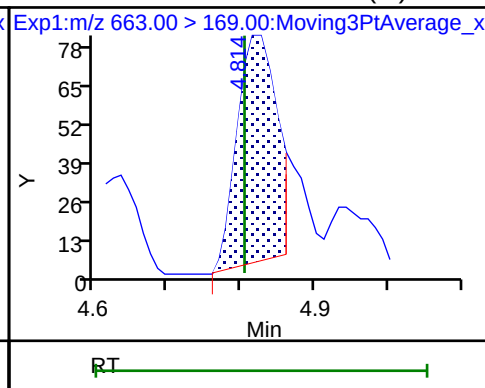
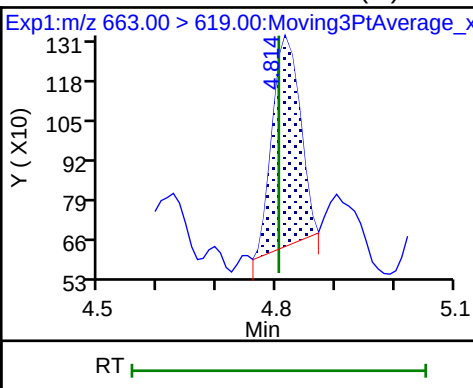
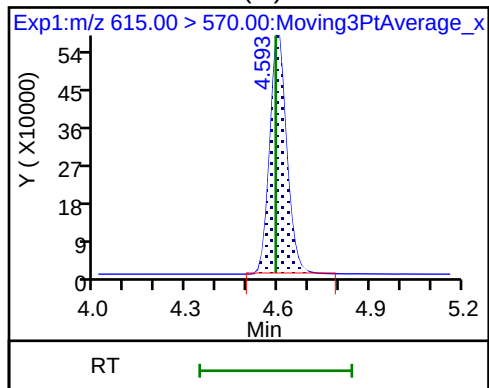
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDa (M)

41 Perfluorotridecanoic acid (M)

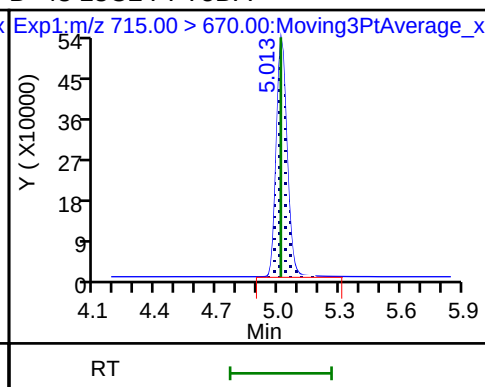
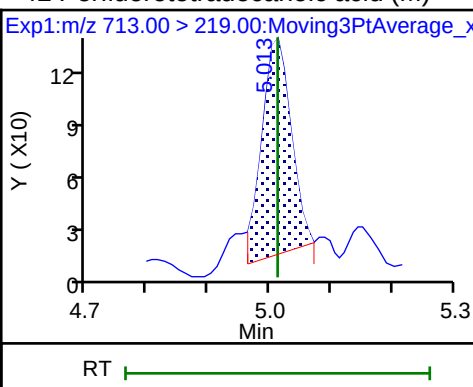
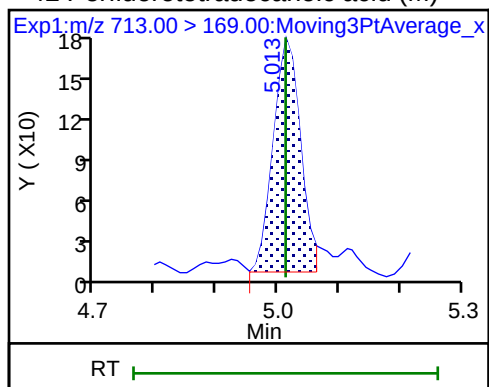
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



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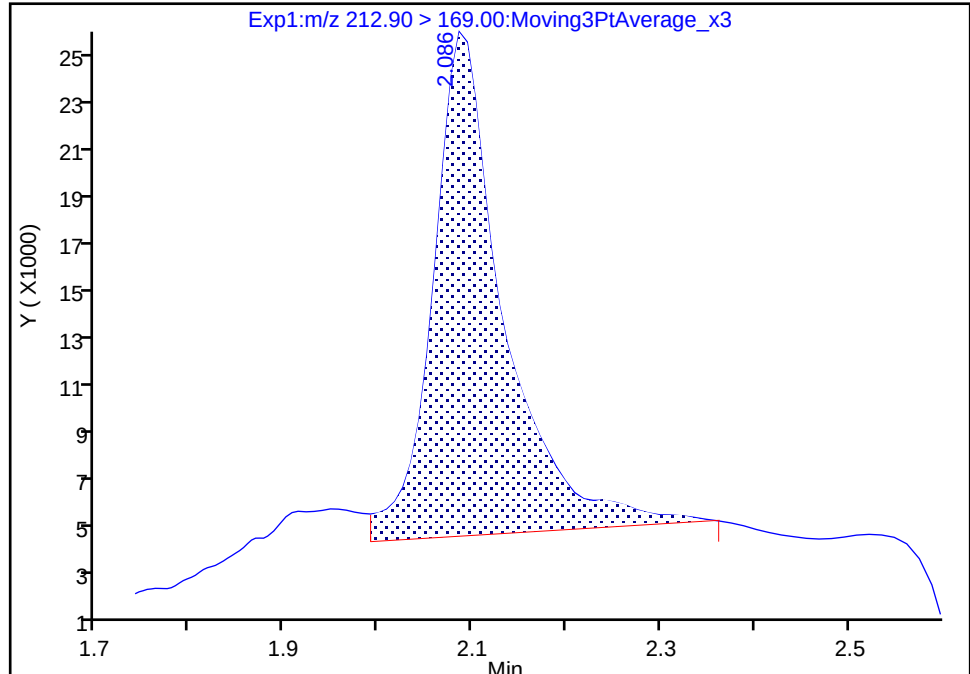
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

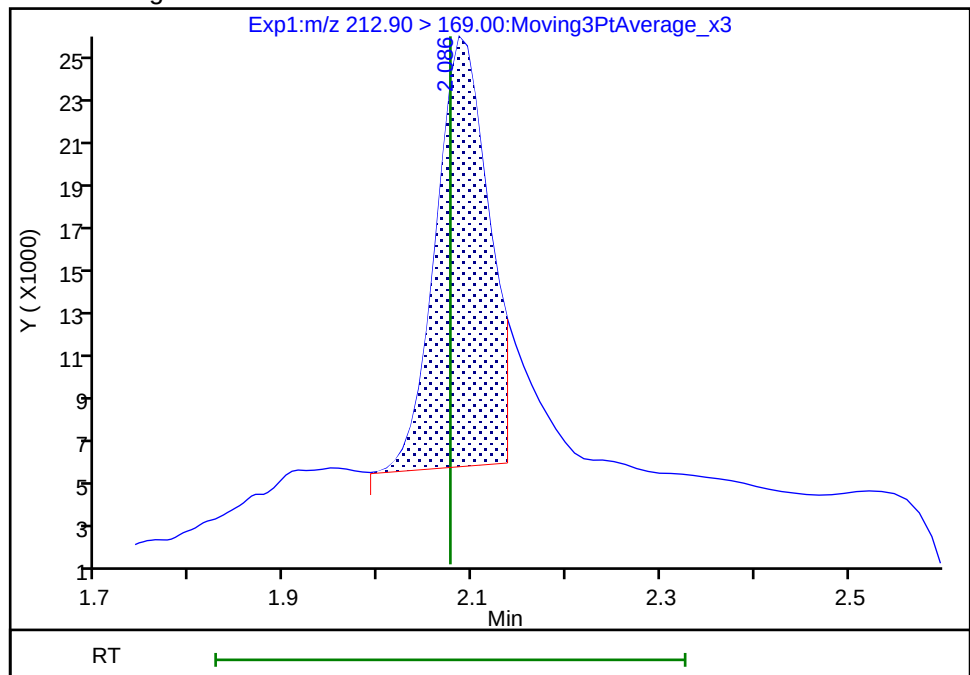
RT: 2.09
Area: 109741
Amount: 0.062599
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 75615
Amount: 0.043133
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:34:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

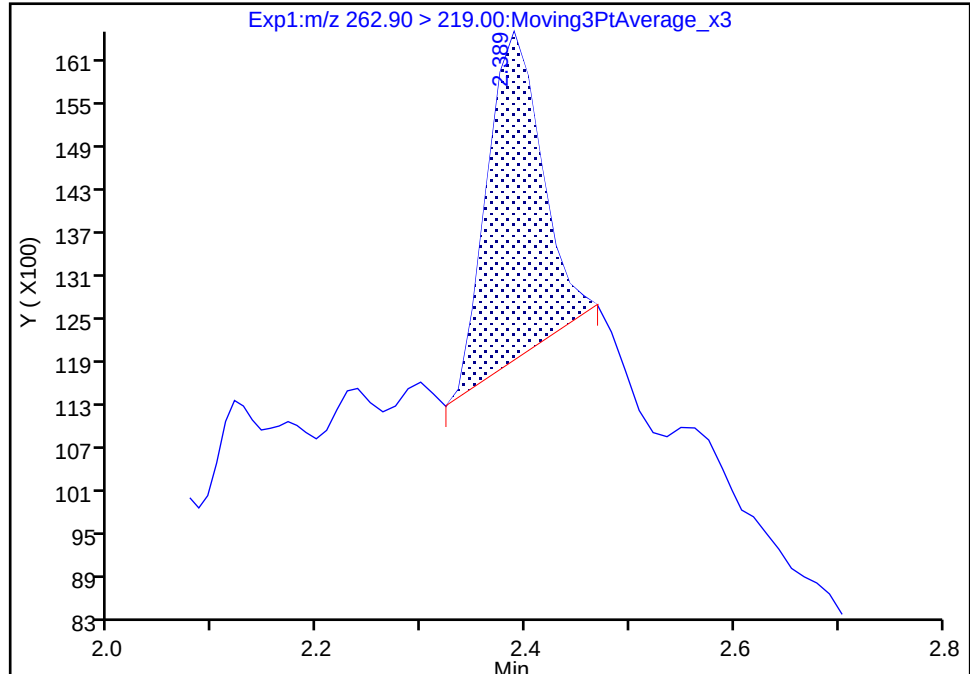
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

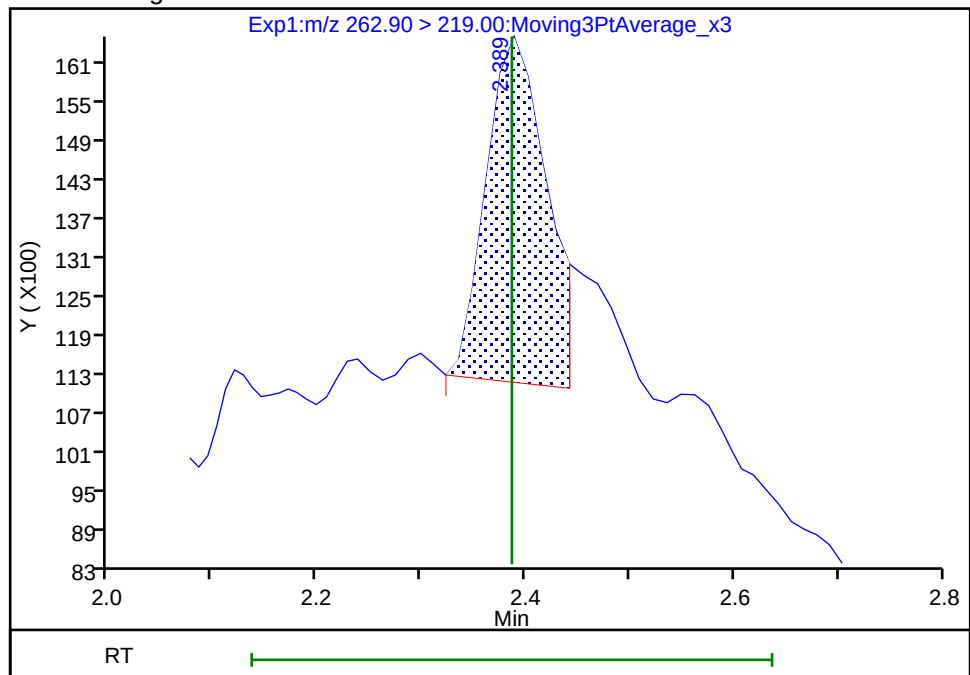
RT: 2.39
Area: 16713
Amount: 0.010626
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 21146
Amount: 0.013444
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:34:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

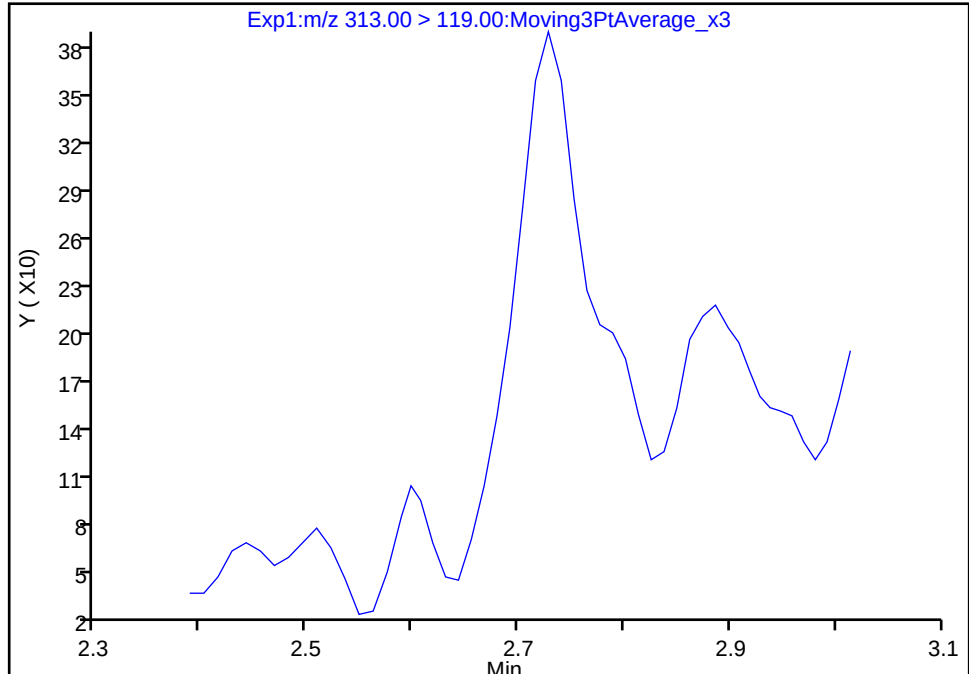
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

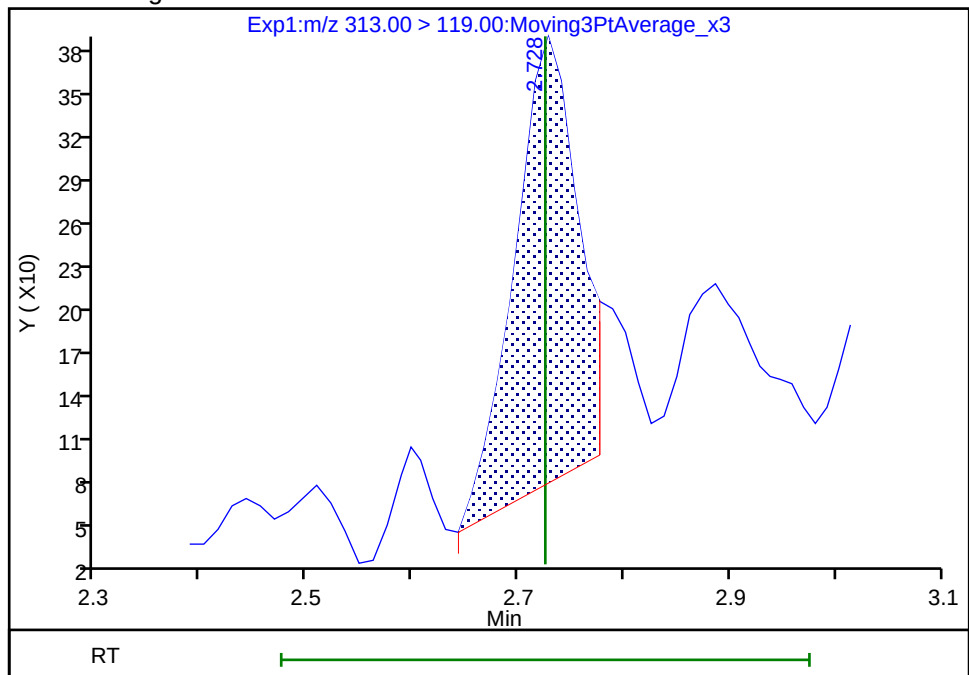
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 1253
Amount: 0.009634
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:35:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

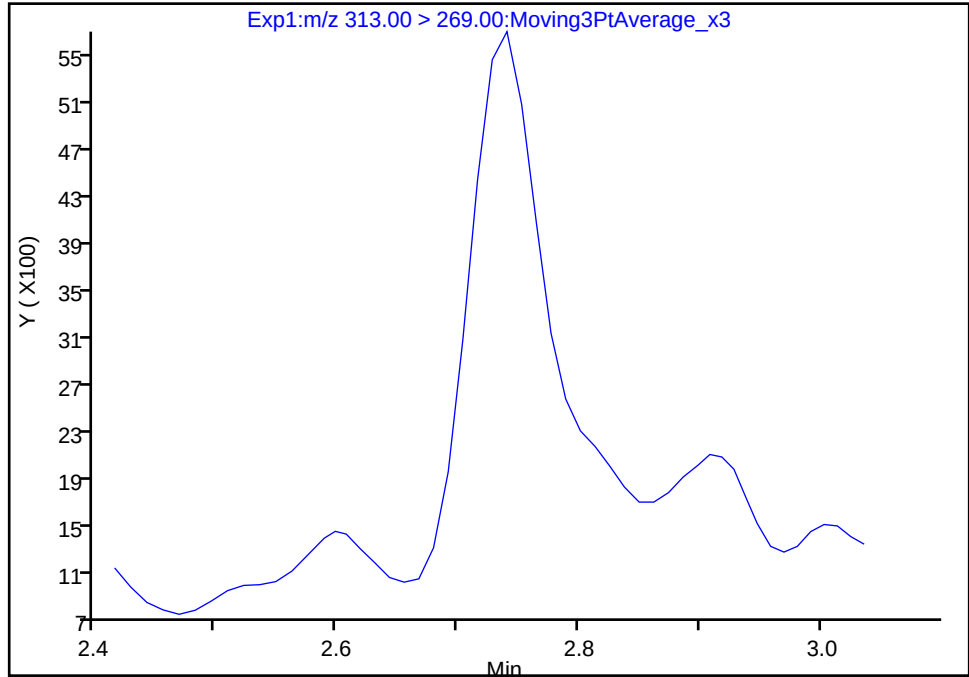
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

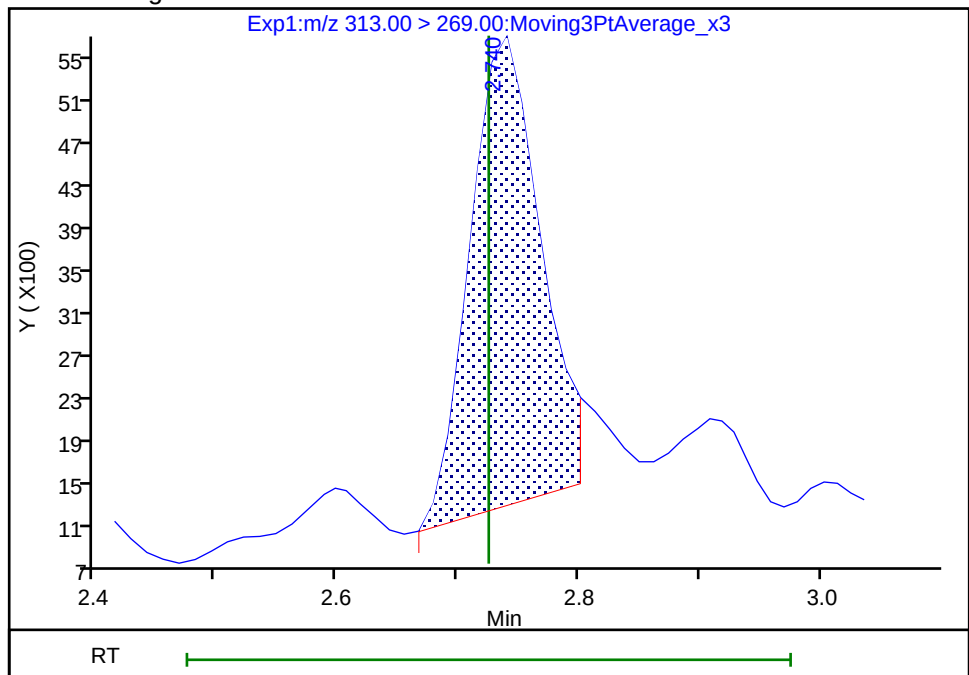
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 17560
Amount: 0.009634
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:35:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

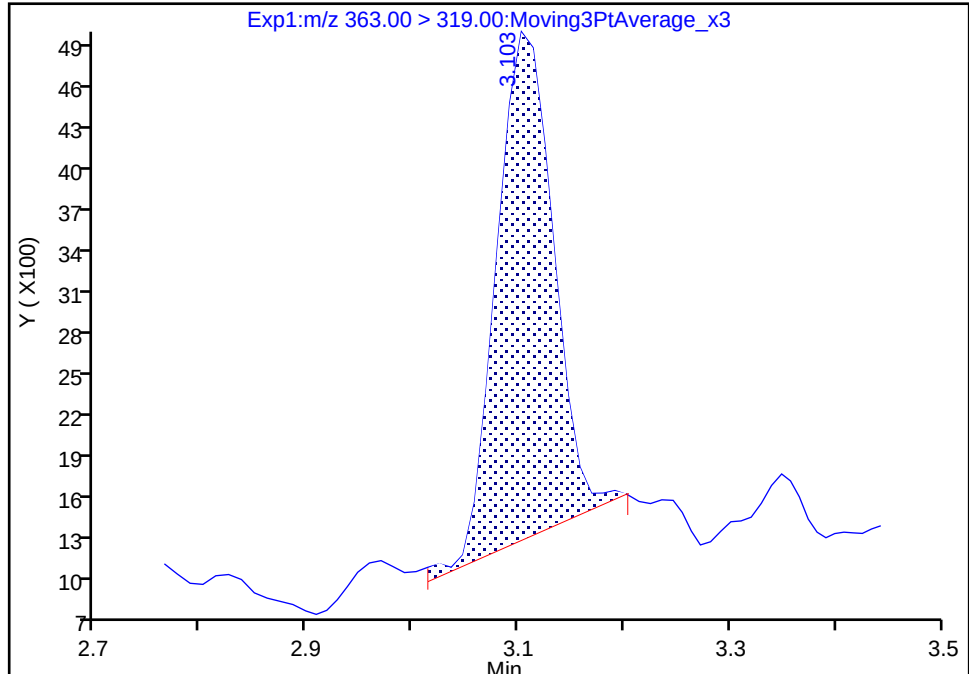
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

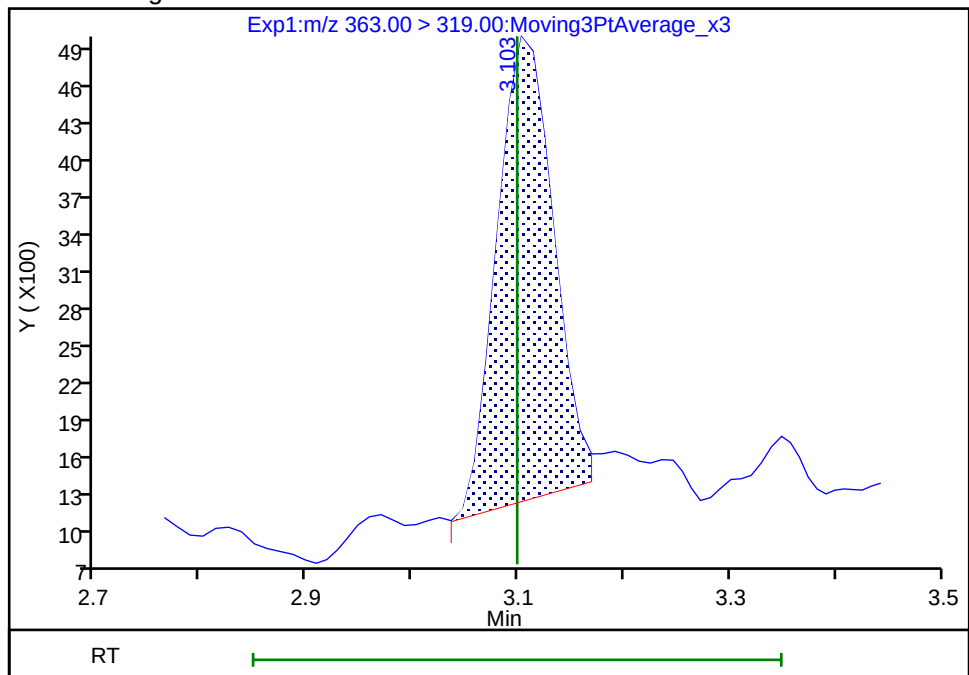
RT: 3.10
Area: 13683
Amount: 0.007080
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 13707
Amount: 0.007092
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:35:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

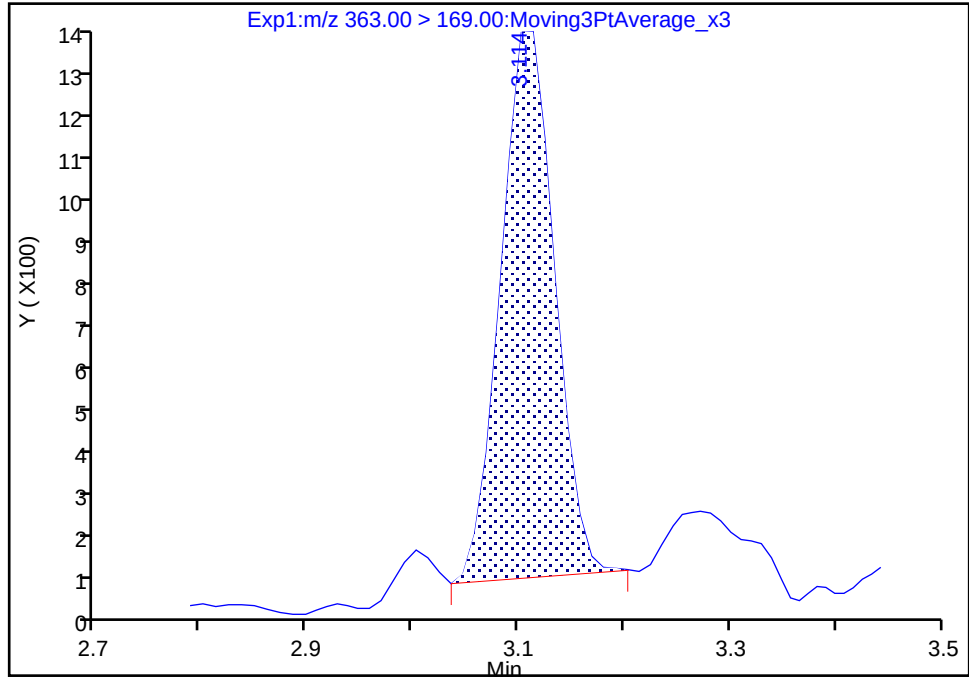
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

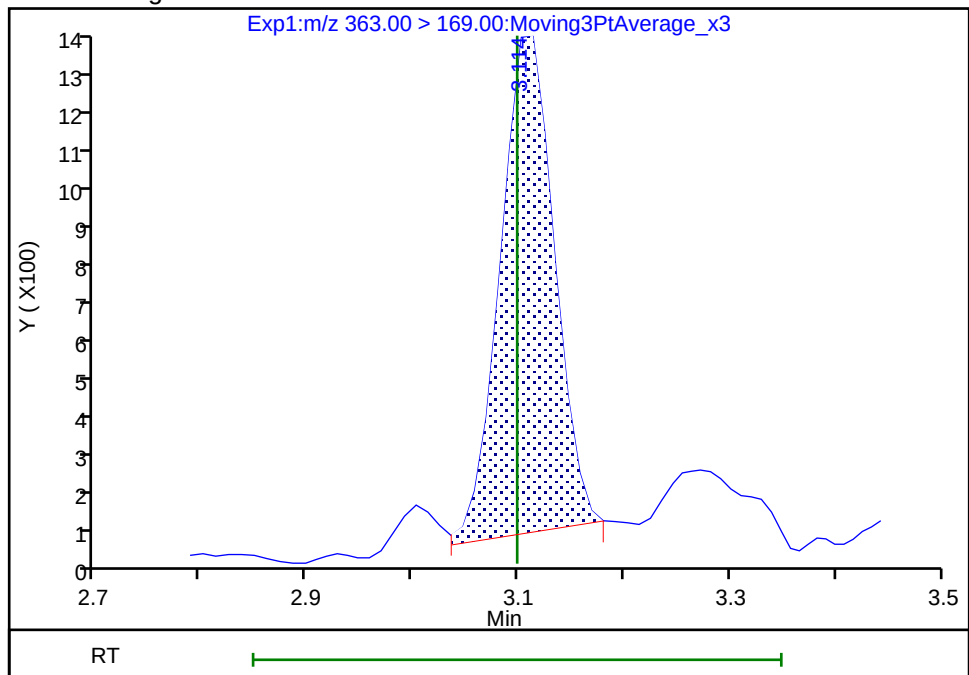
RT: 3.11
Area: 4243
Amount: 0.007080
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 4295
Amount: 0.007092
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:35:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

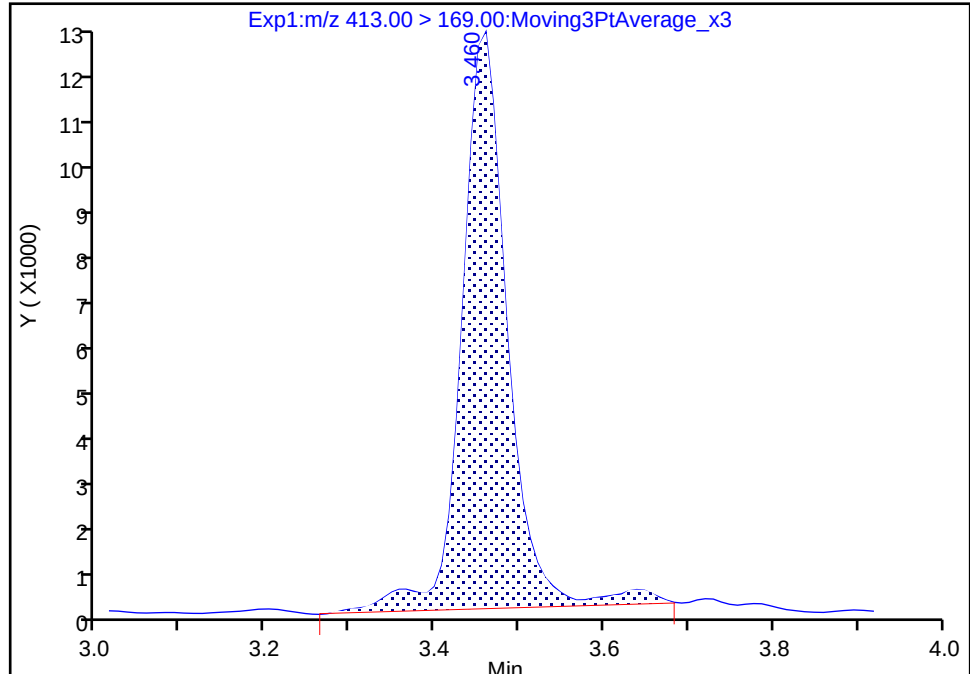
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

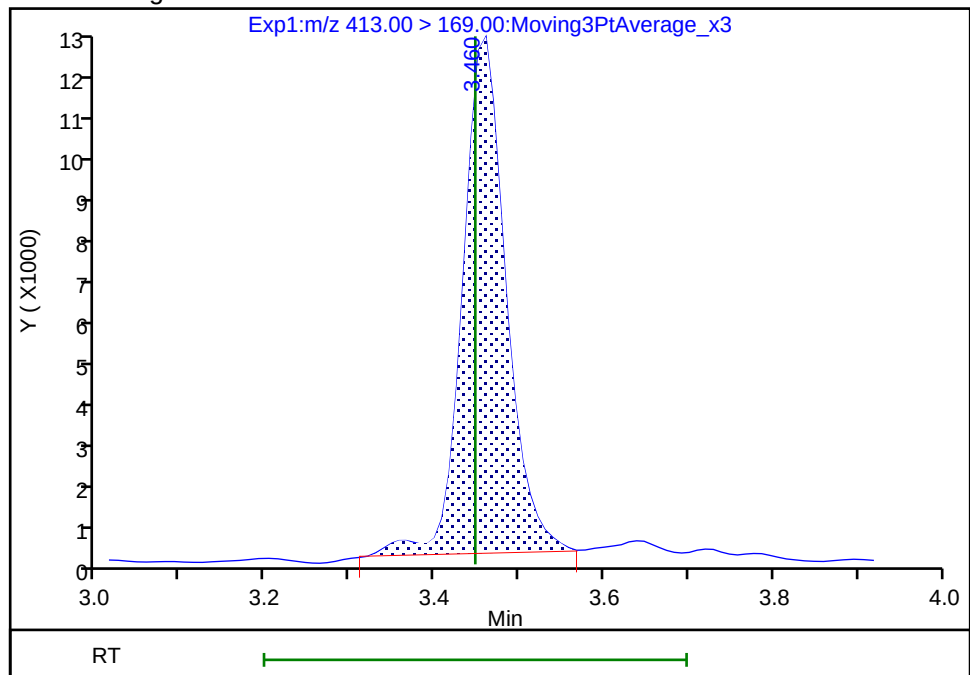
RT: 3.46
Area: 46117
Amount: 0.055025
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 43012
Amount: 0.054744
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:36:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

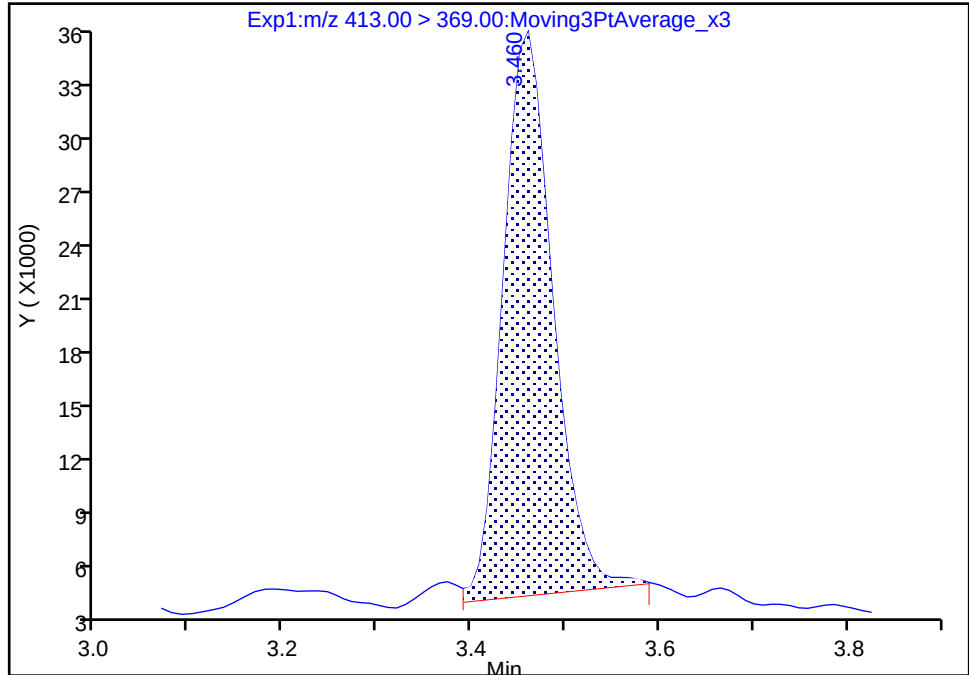
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

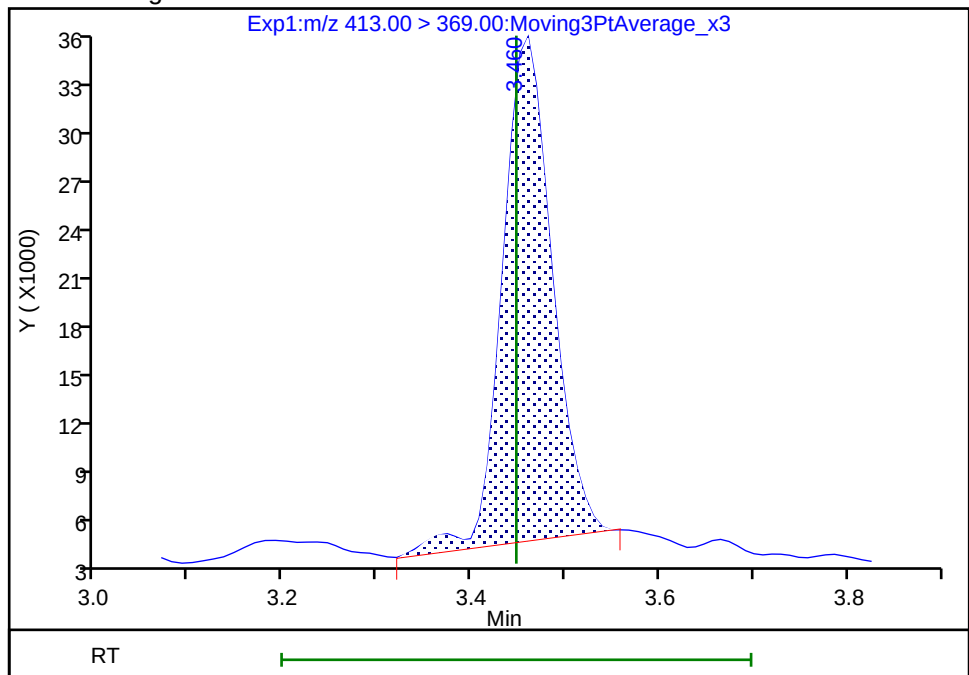
RT: 3.46
Area: 115227
Amount: 0.055025
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 114639
Amount: 0.054744
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:36:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

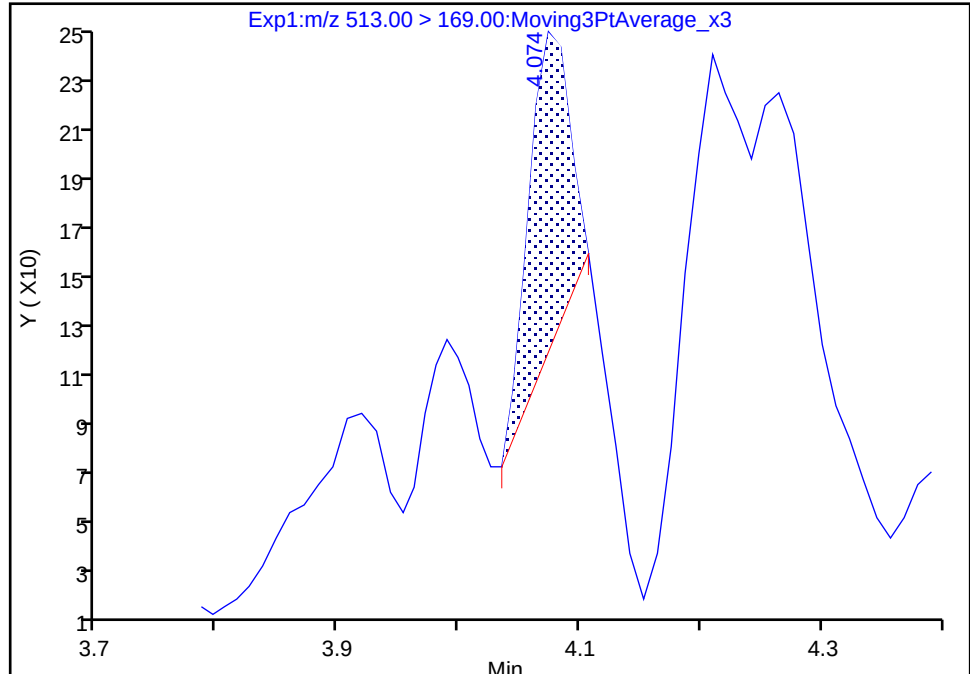
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

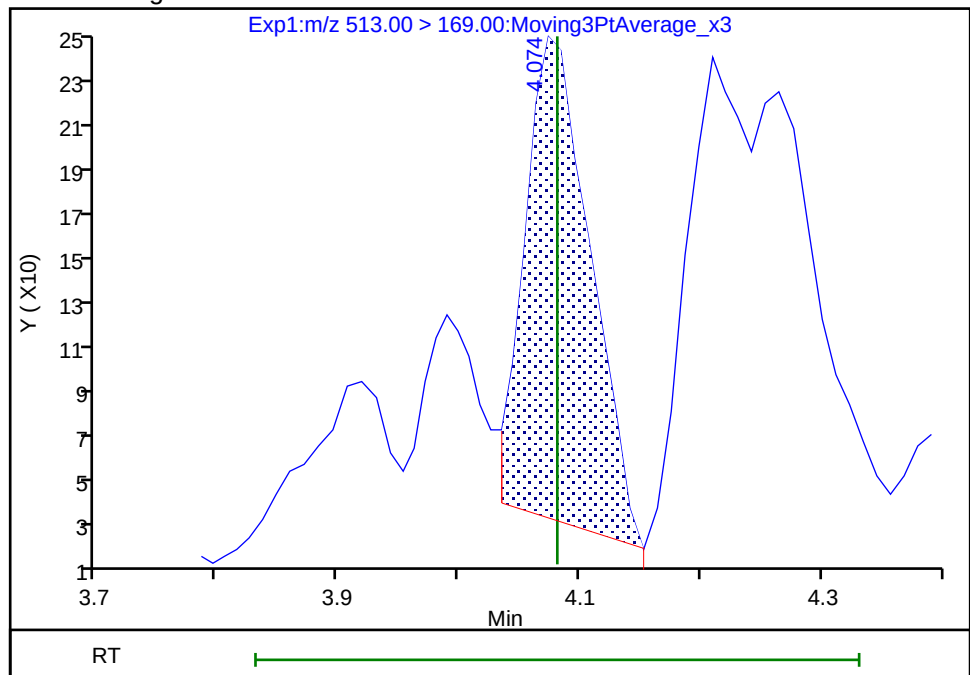
RT: 4.07
Area: 288
Amount: 0.001750
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 789
Amount: 0.001980
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:37:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

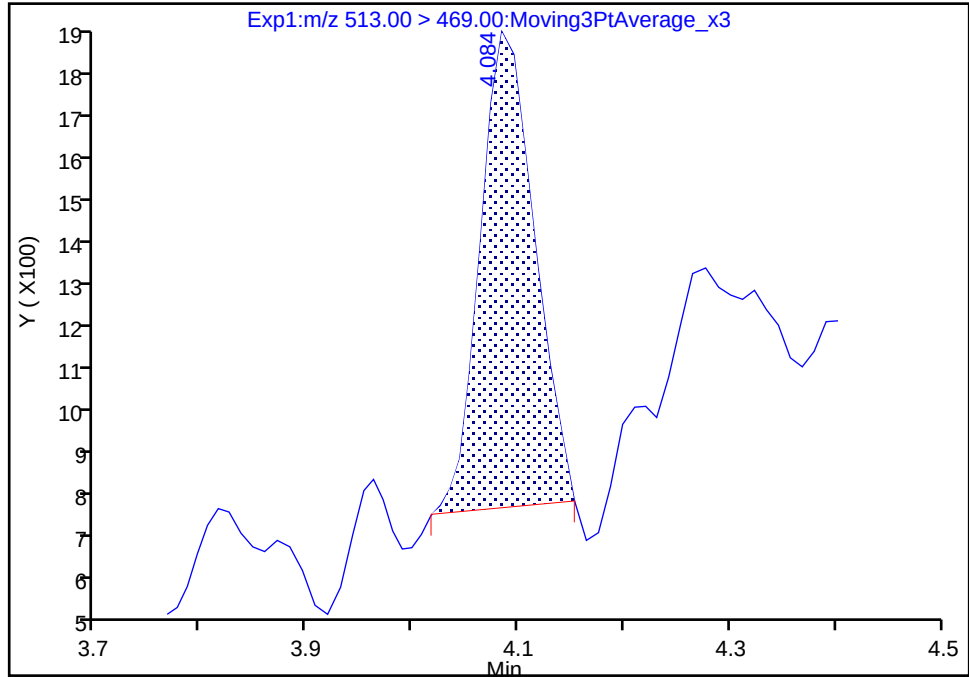
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

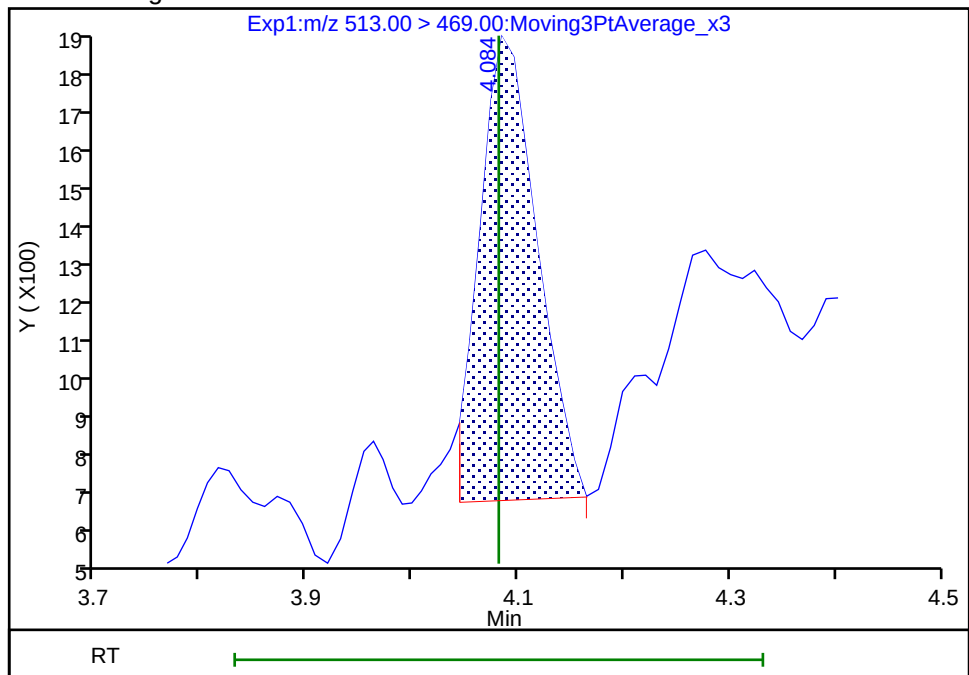
RT: 4.08
Area: 3959
Amount: 0.001750
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 4479
Amount: 0.001980
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:37:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

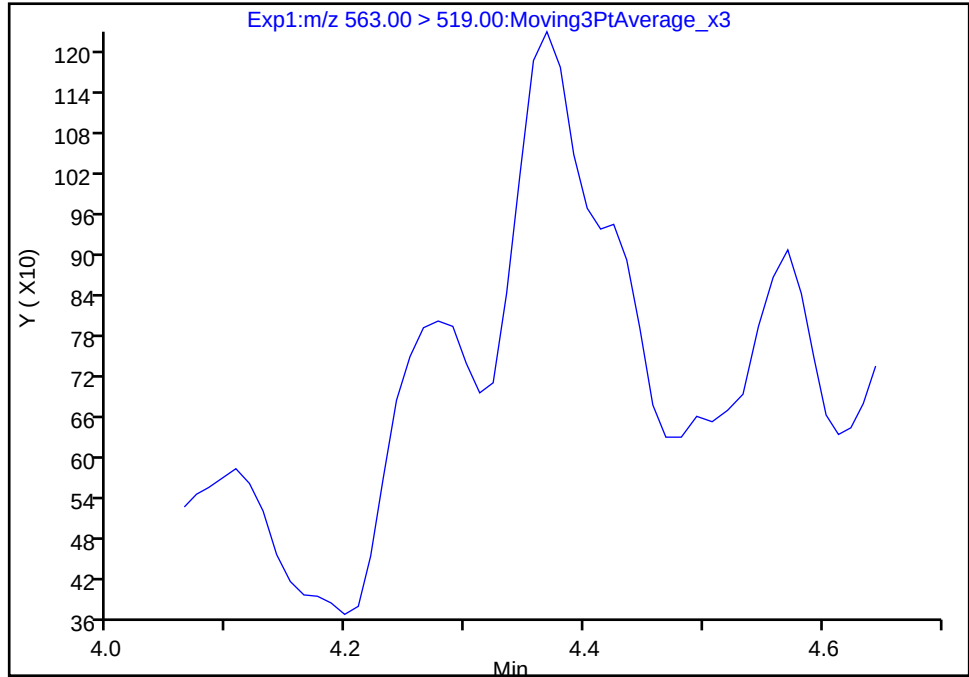
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

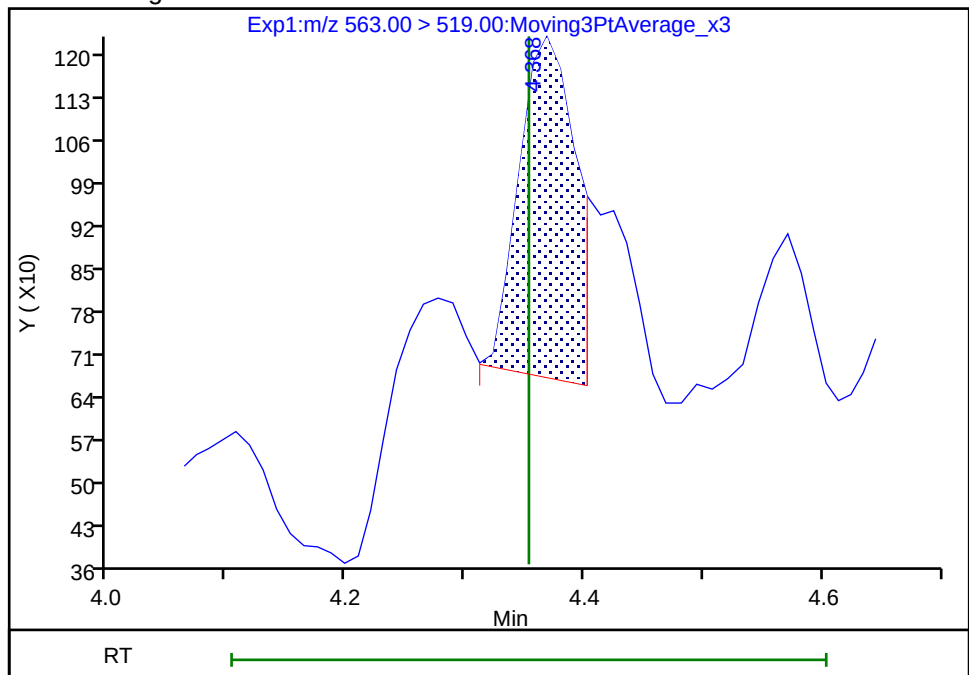
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.37
Area: 1791
Amount: 0.000976
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:38:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

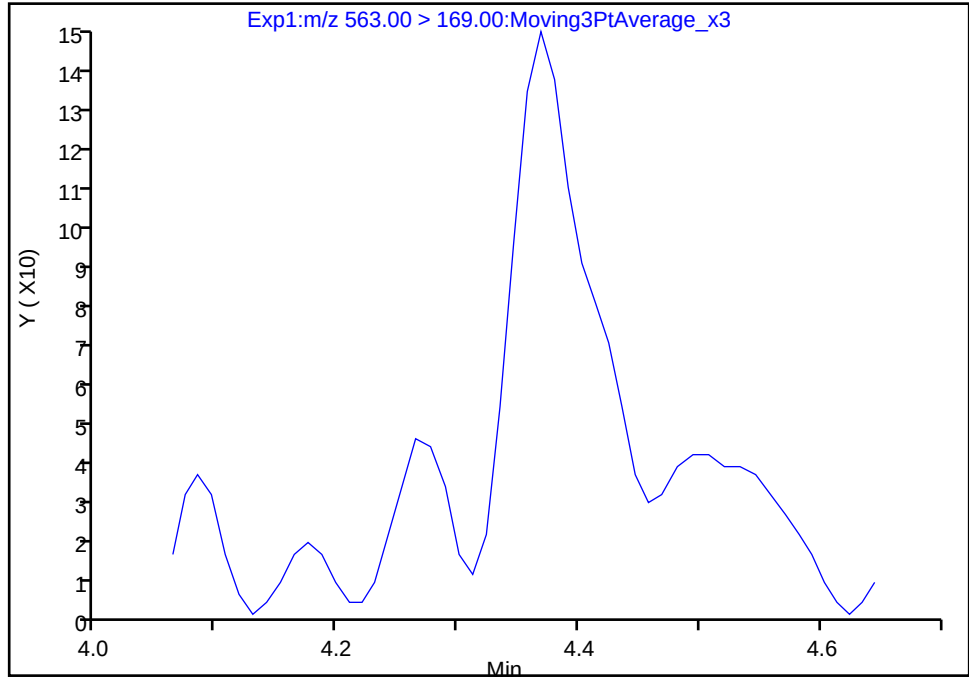
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

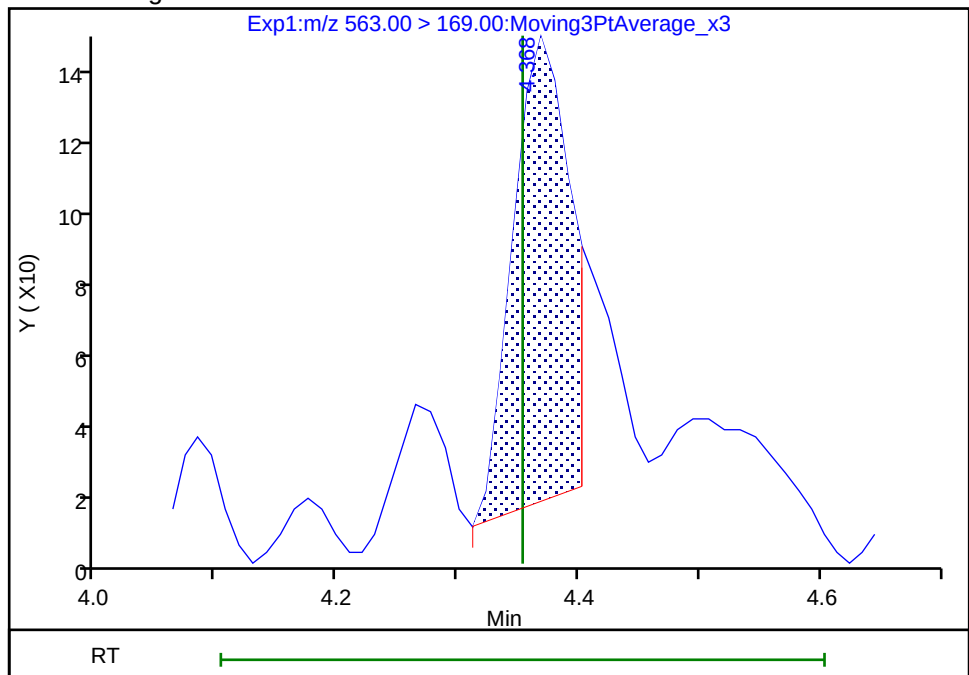
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 412
Amount: 0.000976
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:38:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

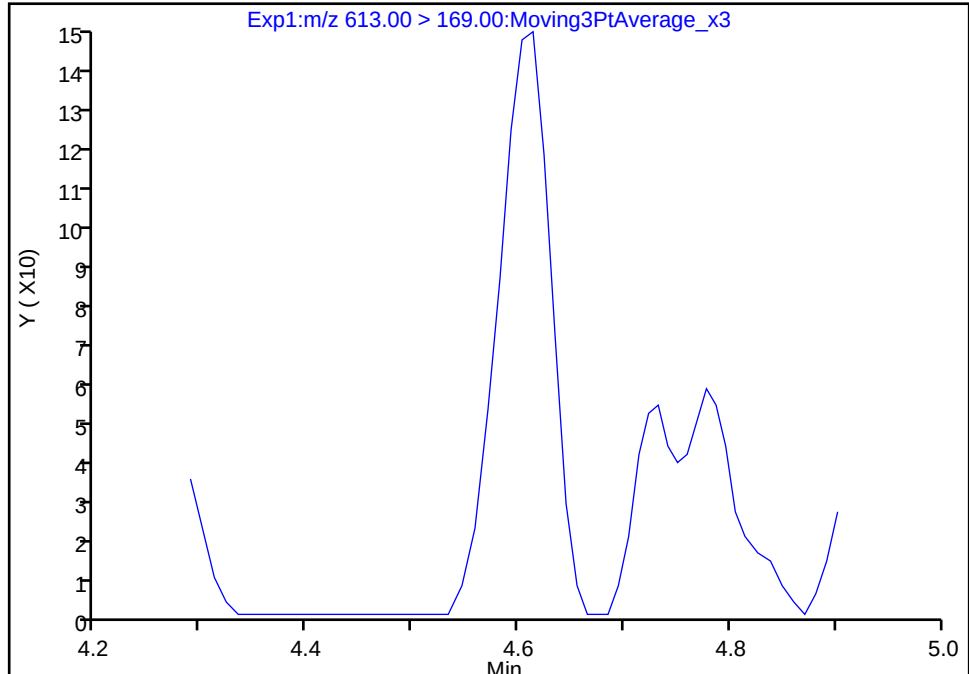
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

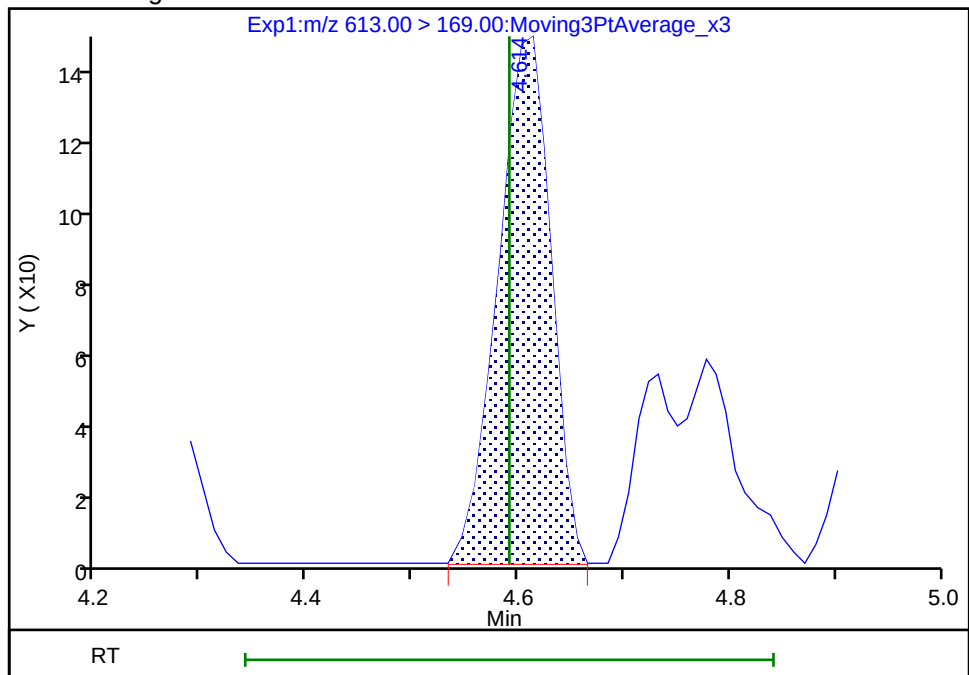
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.61
Area: 493
Amount: 0.001948
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:39:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

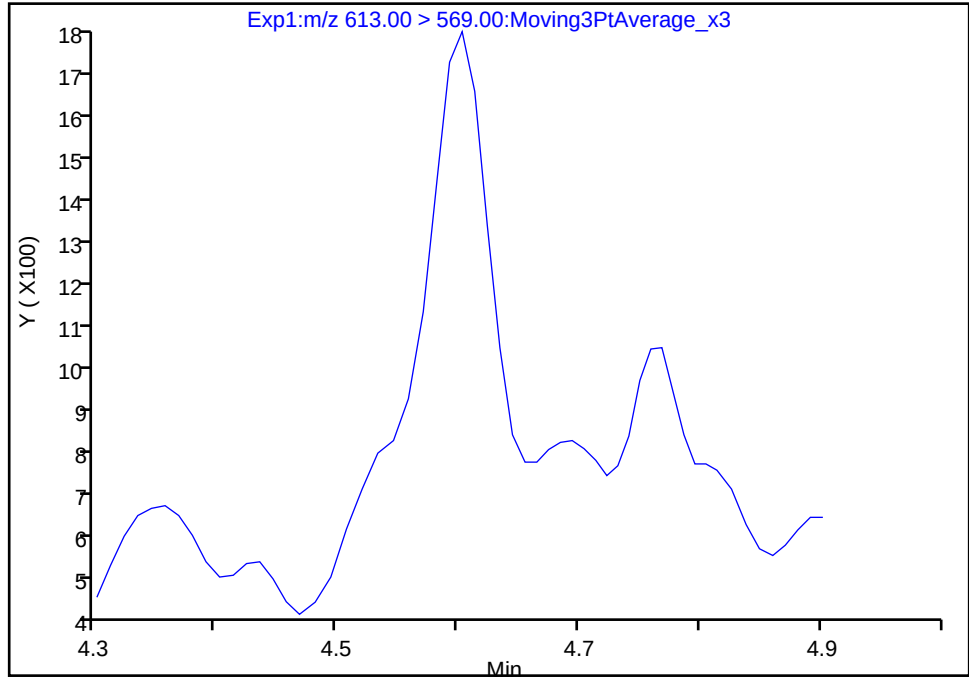
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

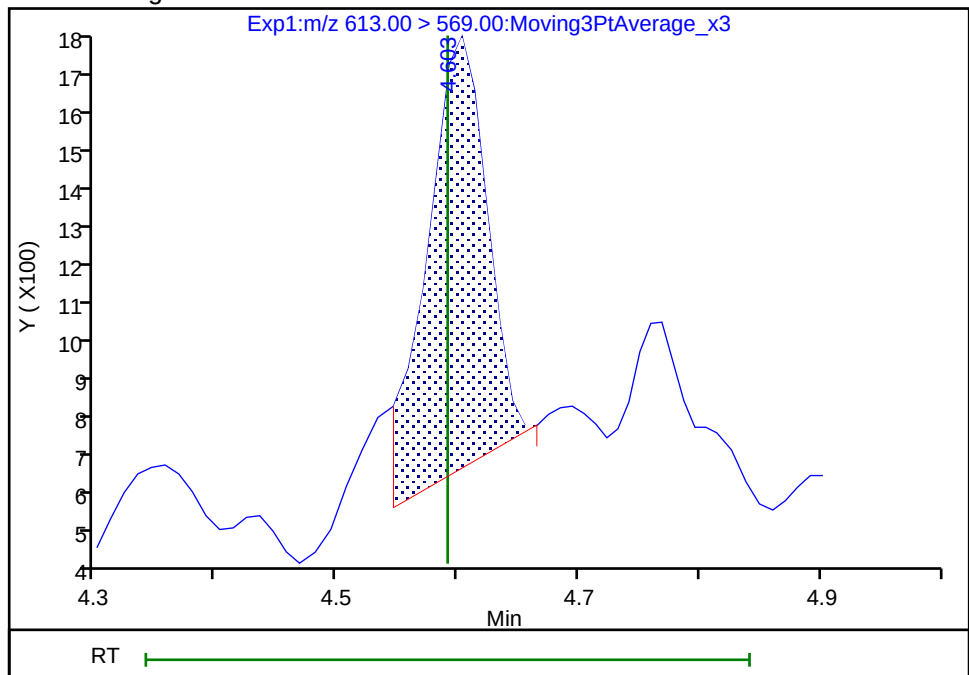
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 3681
Amount: 0.001948
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:39:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

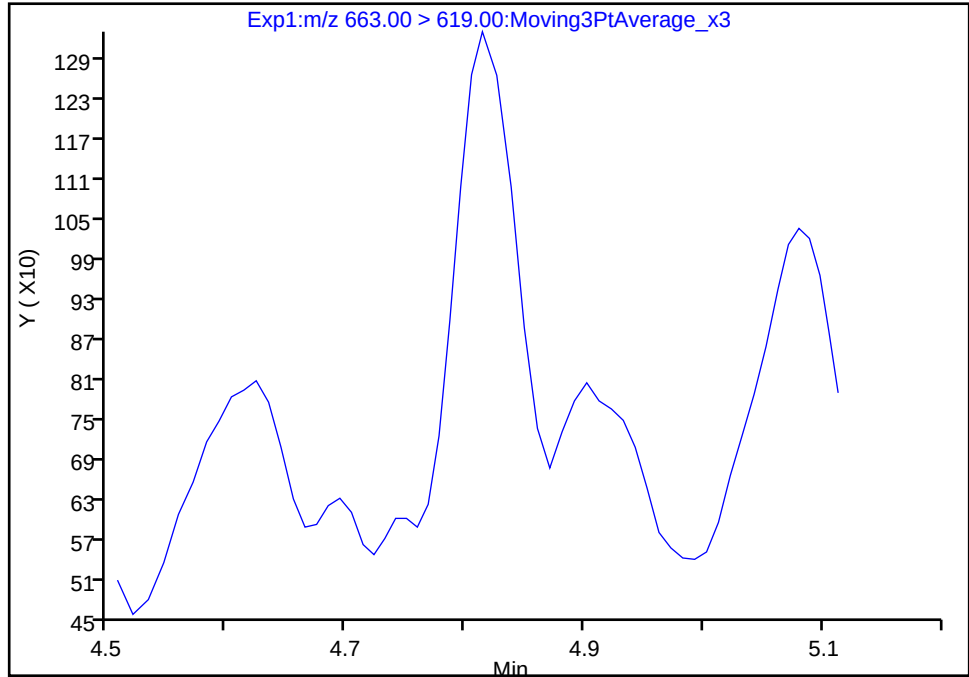
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

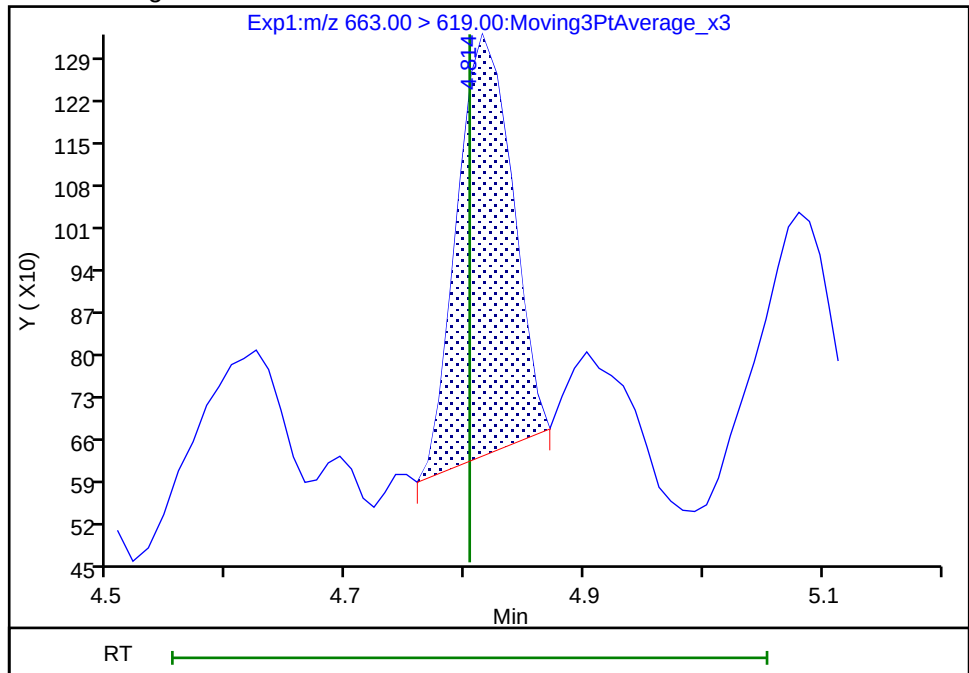
Signal: 1

Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results



RT: 4.81
Area: 2241
Amount: 0.001240
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:39:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

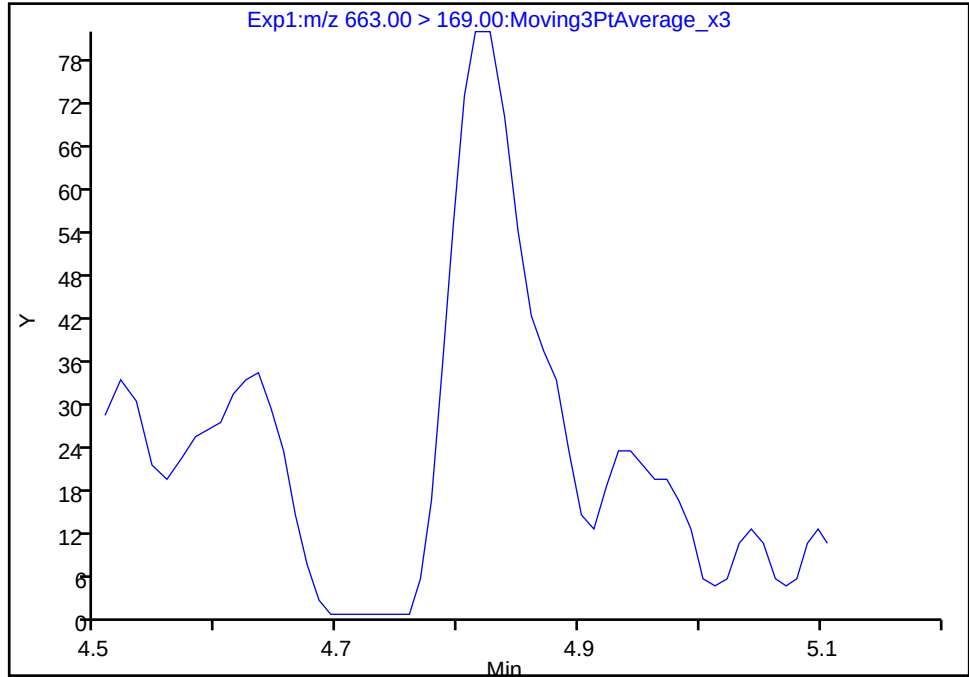
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

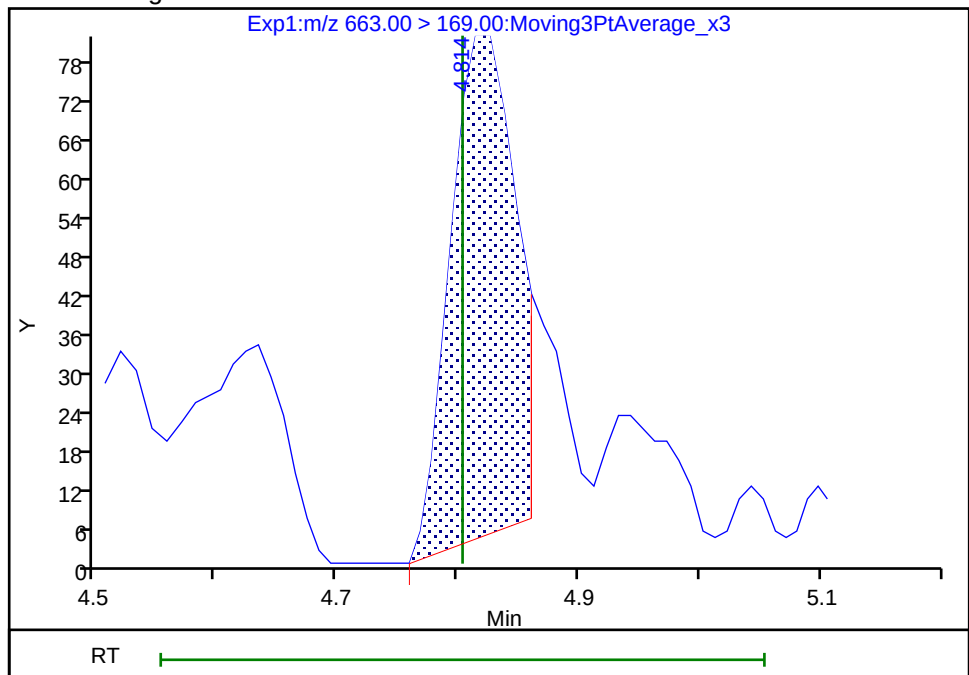
Not Detected
Expected RT: 4.80

Processing Integration Results



RT: 4.81
Area: 289
Amount: 0.001240
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:39:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

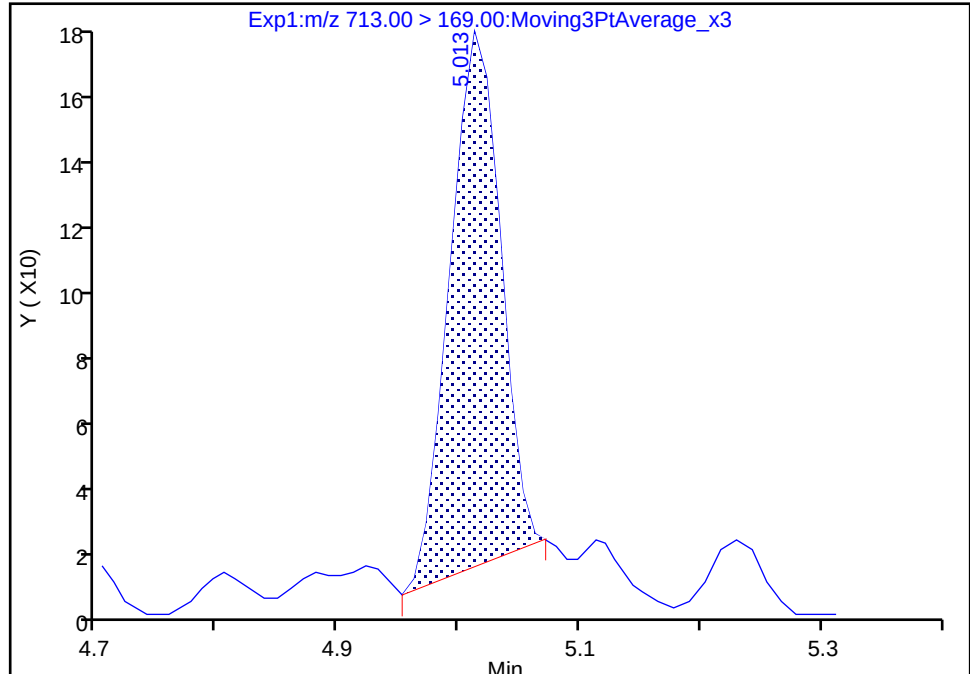
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

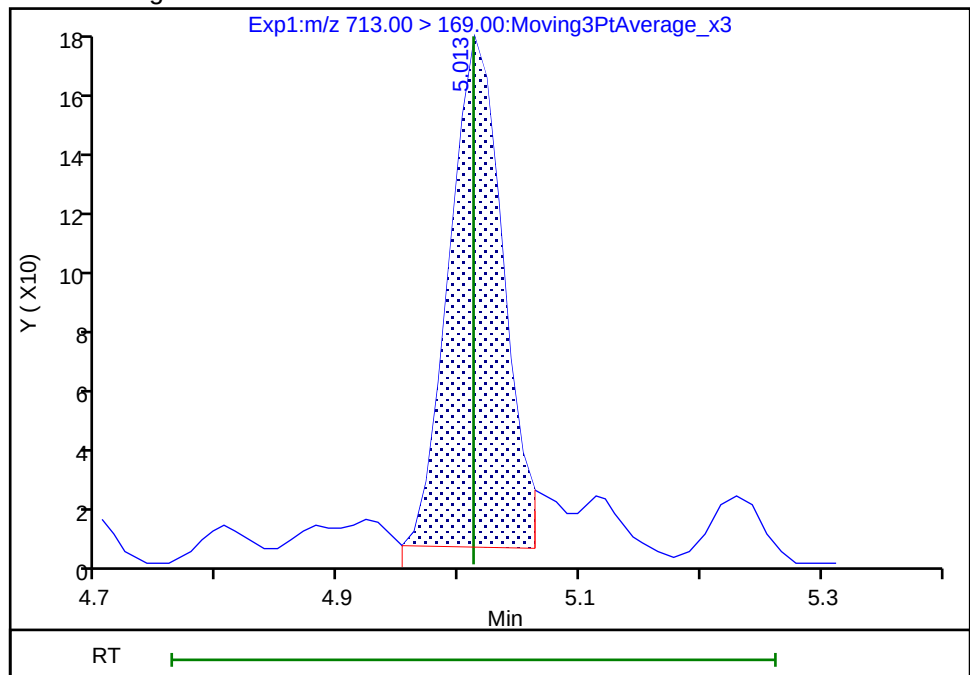
RT: 5.01
Area: 482
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 536
Amount: 0.002541
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:39:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

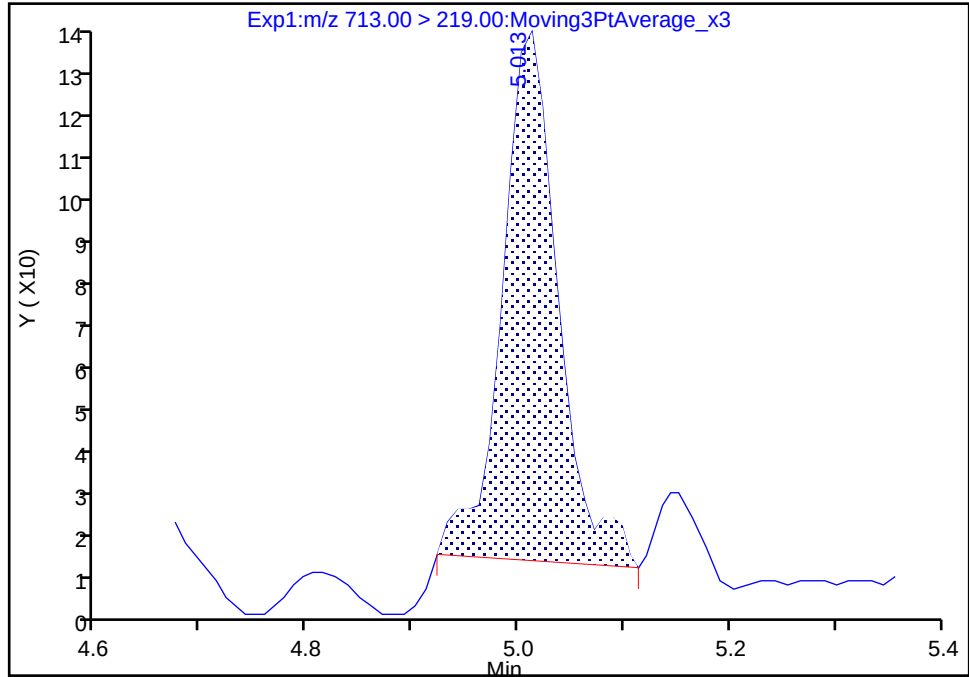
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

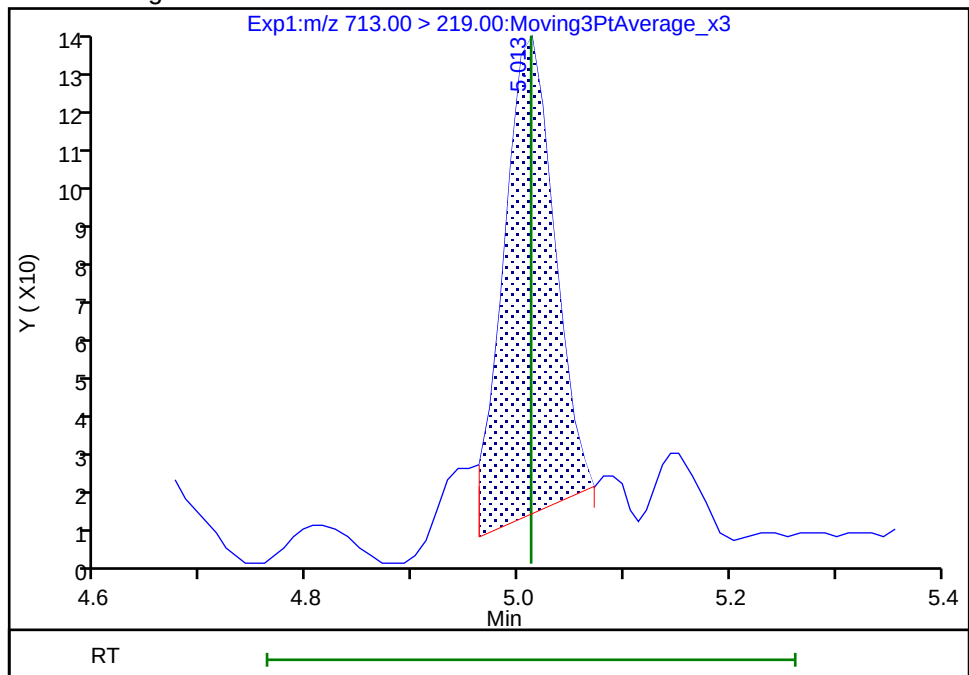
RT: 5.01
Area: 468
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 419
Amount: 0.002541
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:39:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

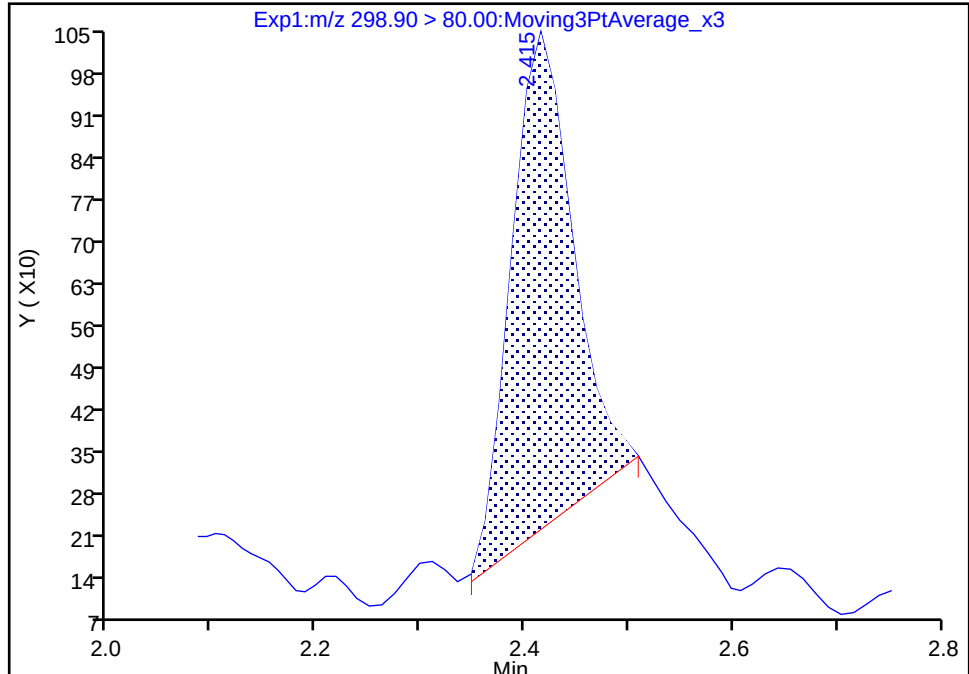
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

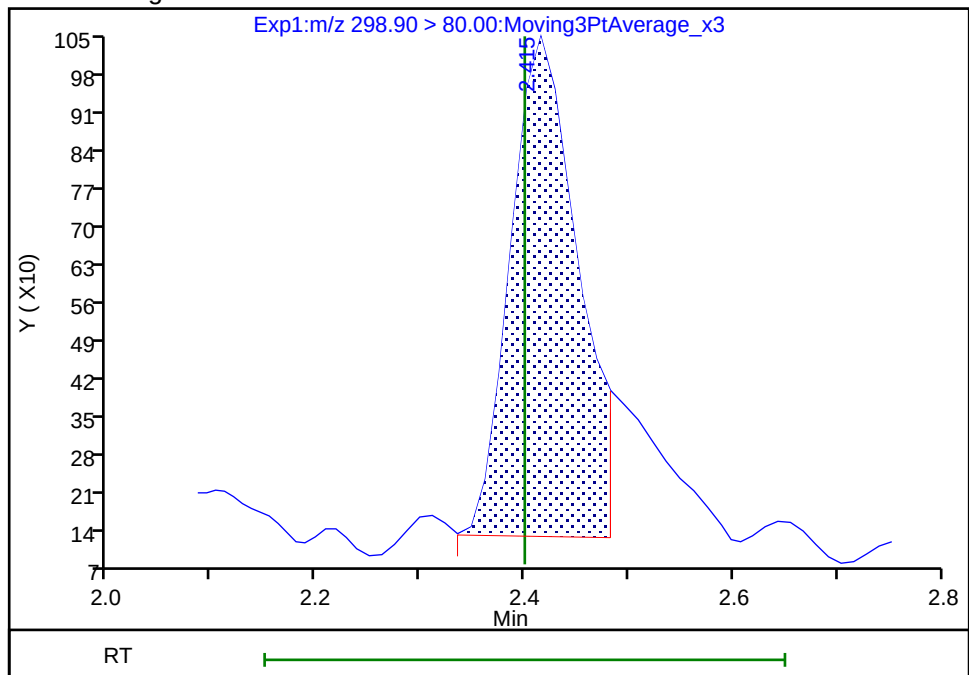
RT: 2.42
Area: 3458
Amount: 0.001937
Amount Units: ng/ml

Processing Integration Results



RT: 2.42
Area: 4124
Amount: 0.002310
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:35:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

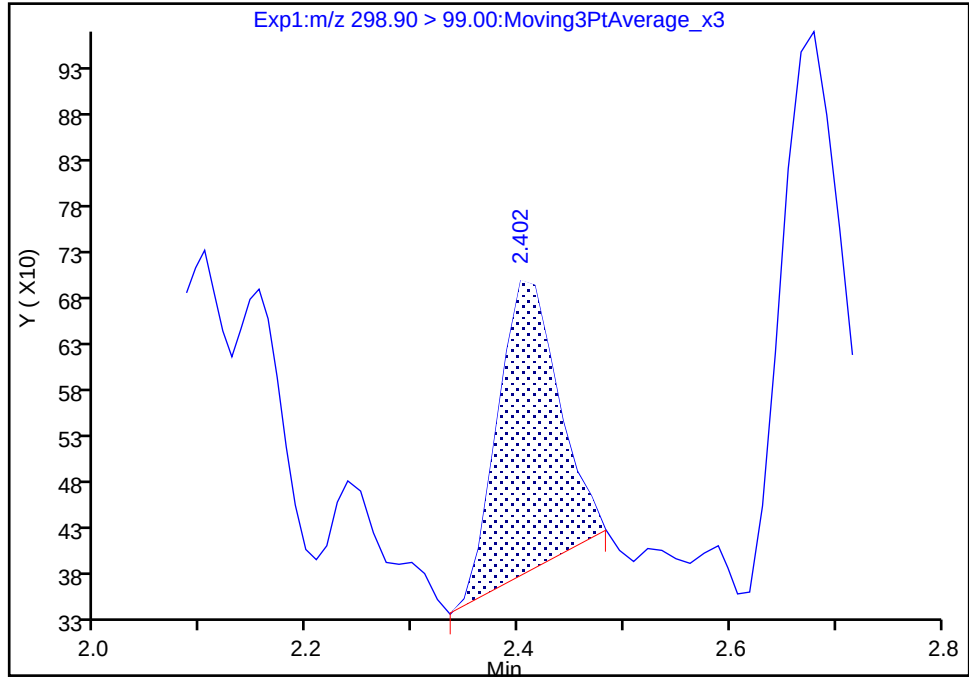
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

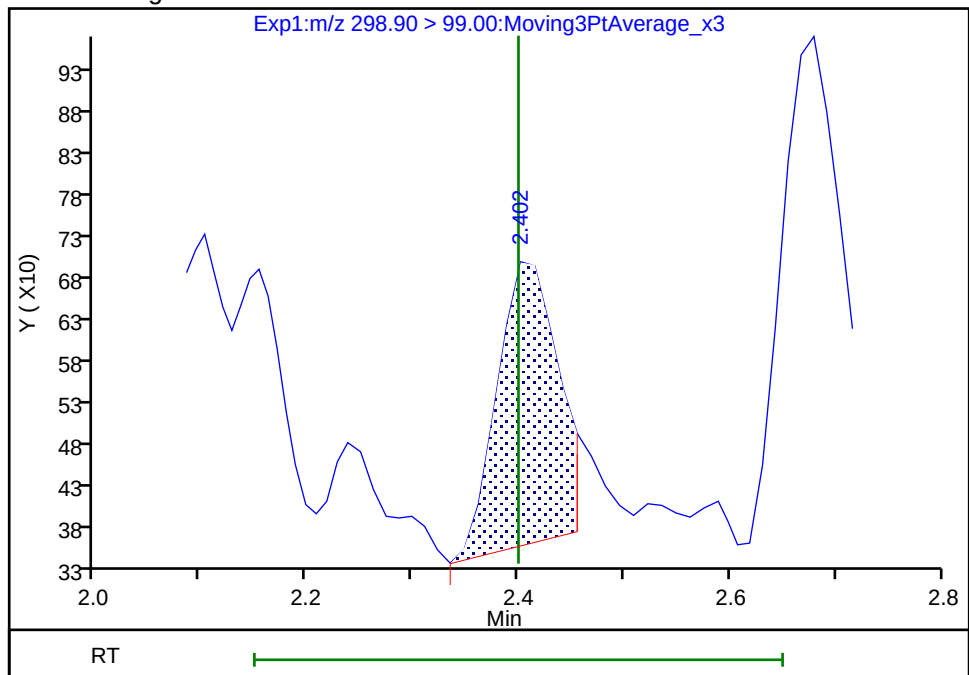
RT: 2.40
Area: 1265
Amount: 0.001937
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1328
Amount: 0.002310
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:35:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

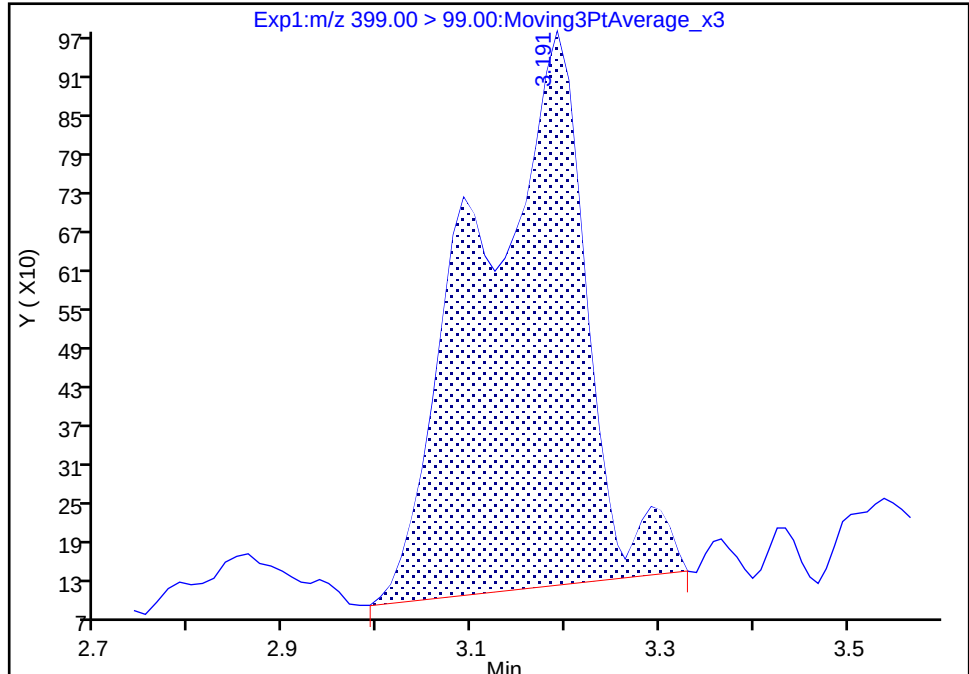
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

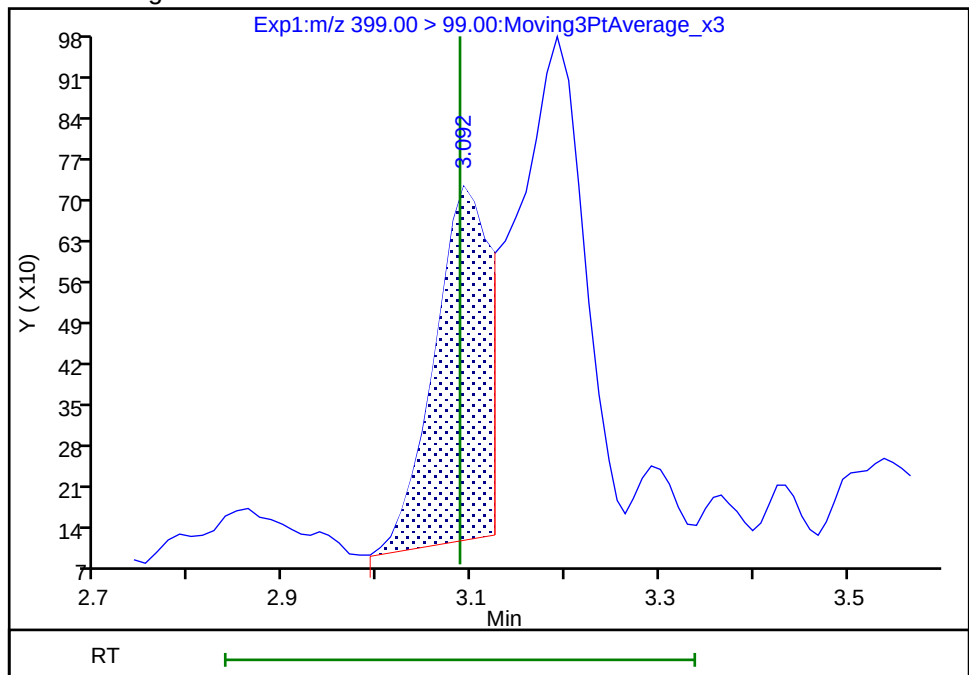
RT: 3.19
Area: 7026
Amount: 0.005714
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2414
Amount: 0.005714
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:35:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

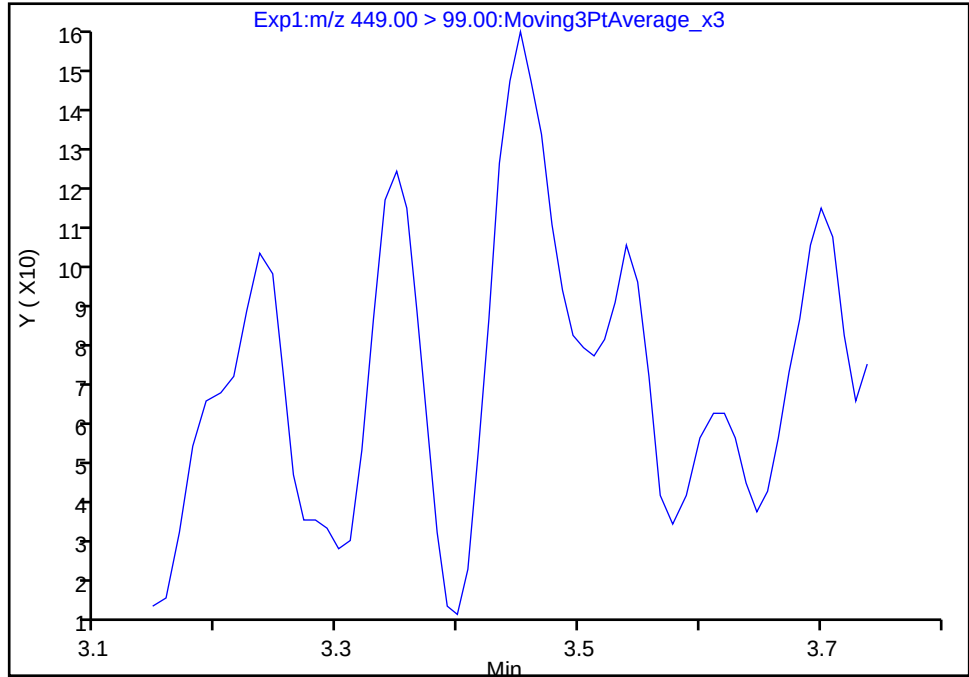
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

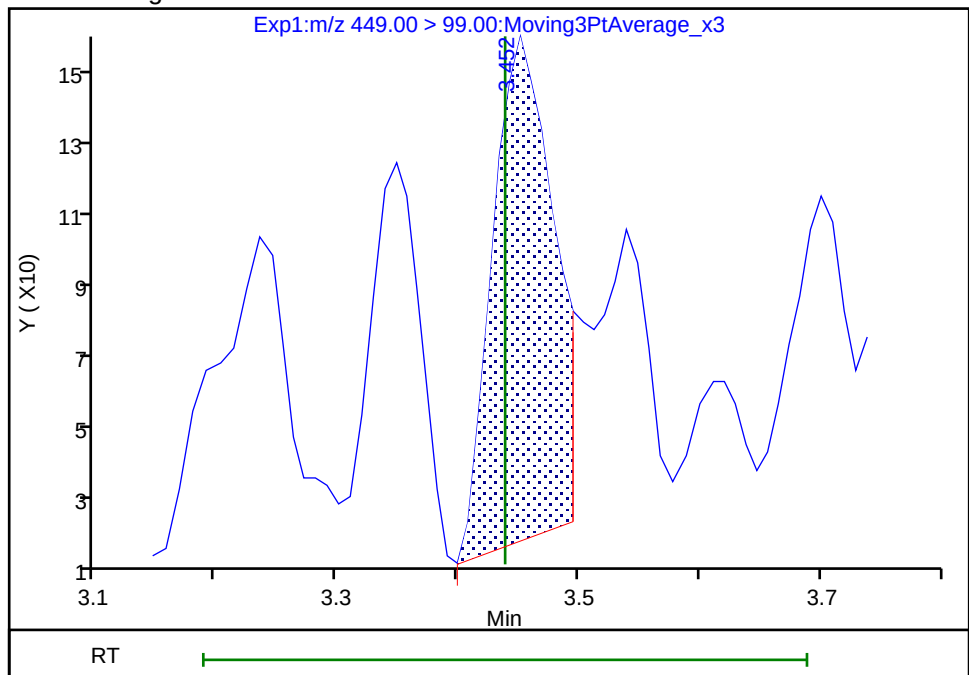
Signal: 2

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 470
Amount: 0.000892
Amount Units: ng/mlReviewer: nampitakw, 19-Dec-2022 09:36:33
Audit Action: Manually IntegratedAudit Reason: Incomplete Integration
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Eurofins Burlington

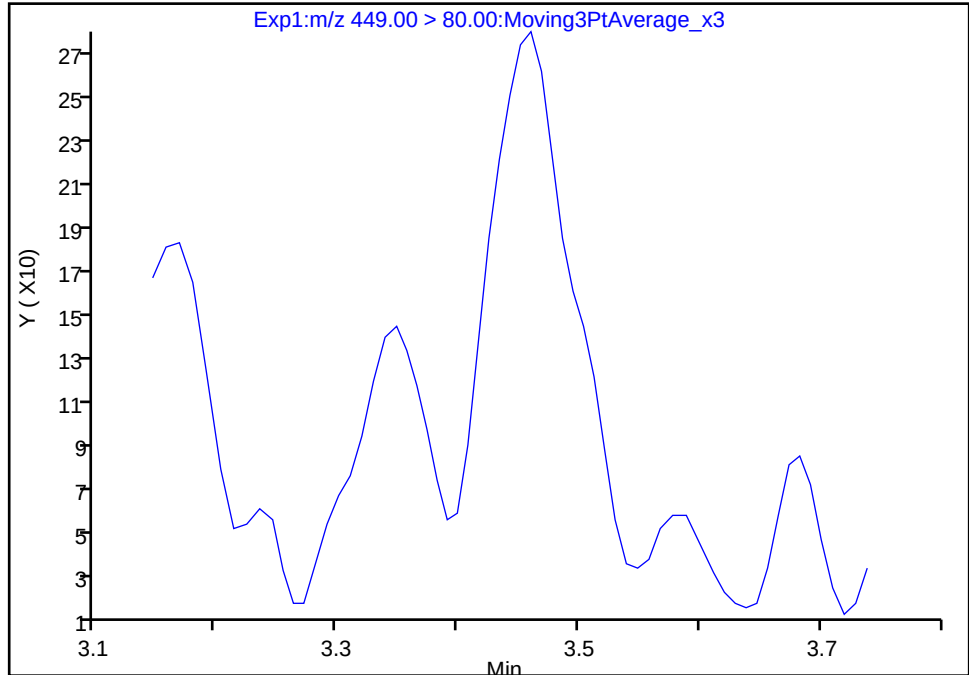
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

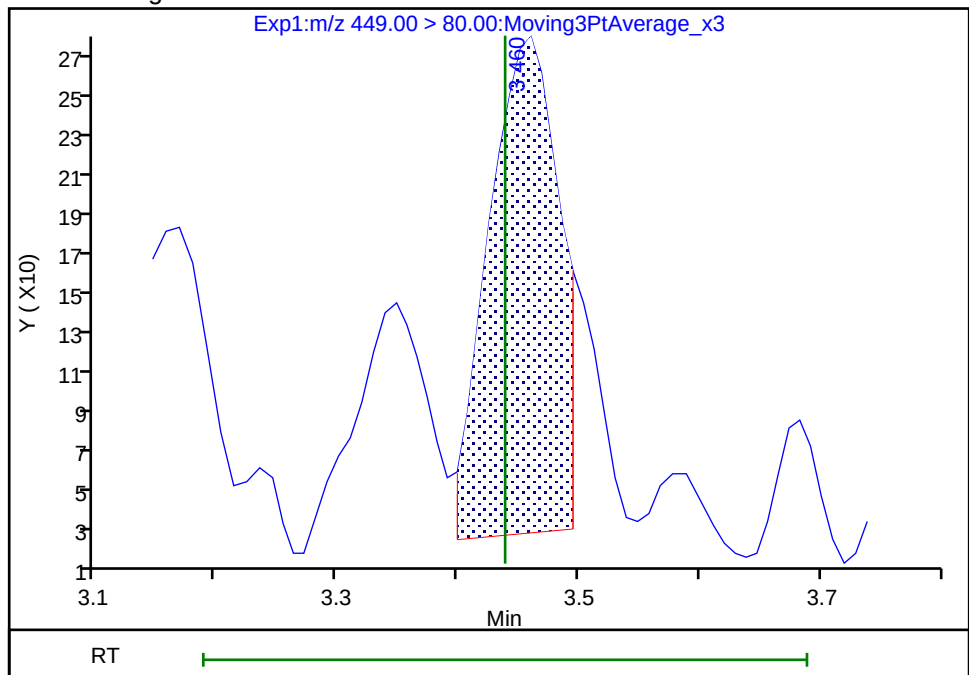
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 994
Amount: 0.000892
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:36:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

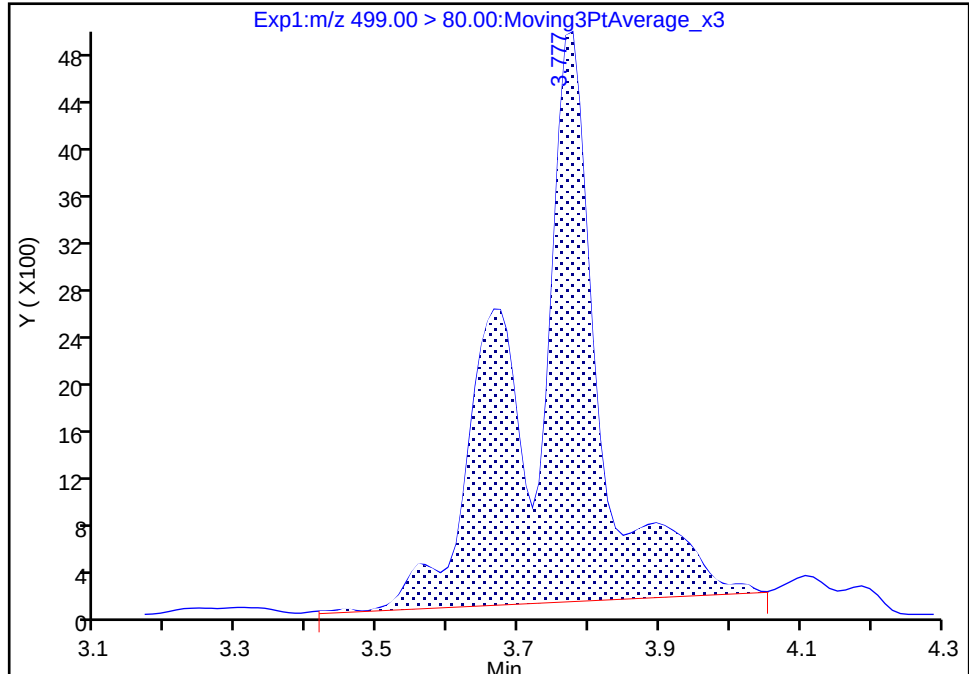
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul 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

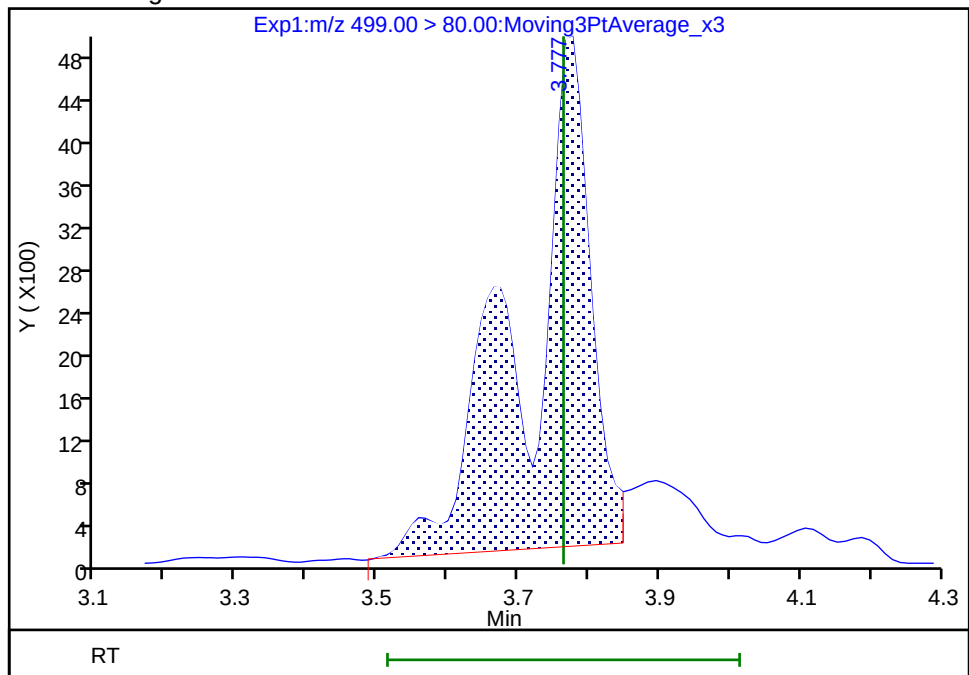
RT: 3.78
Area: 36047
Amount: 0.037139
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 31335
Amount: 0.032284
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:37:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

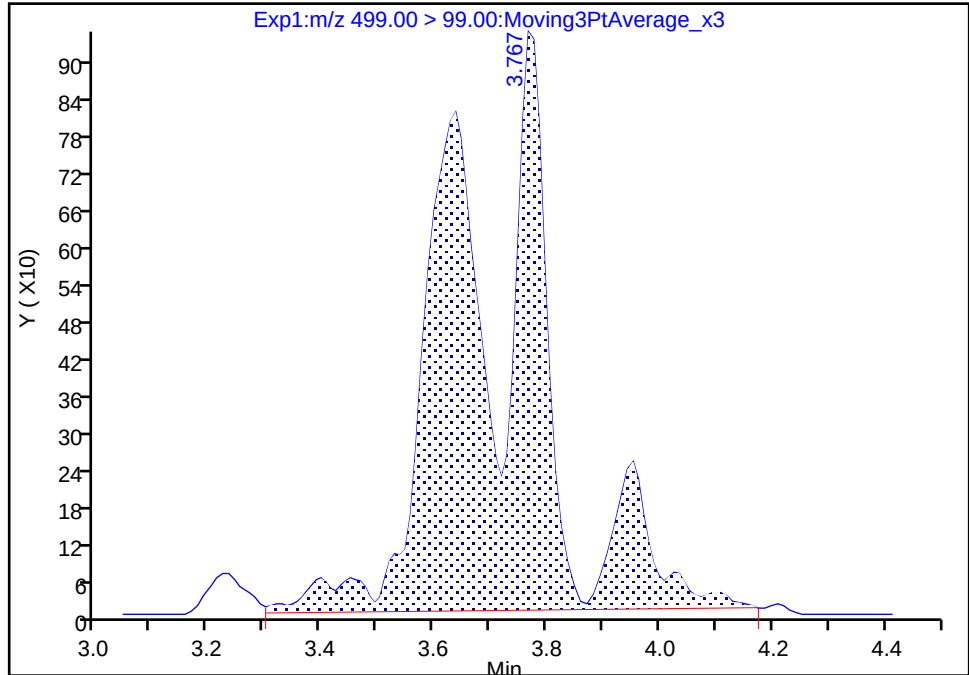
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul 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

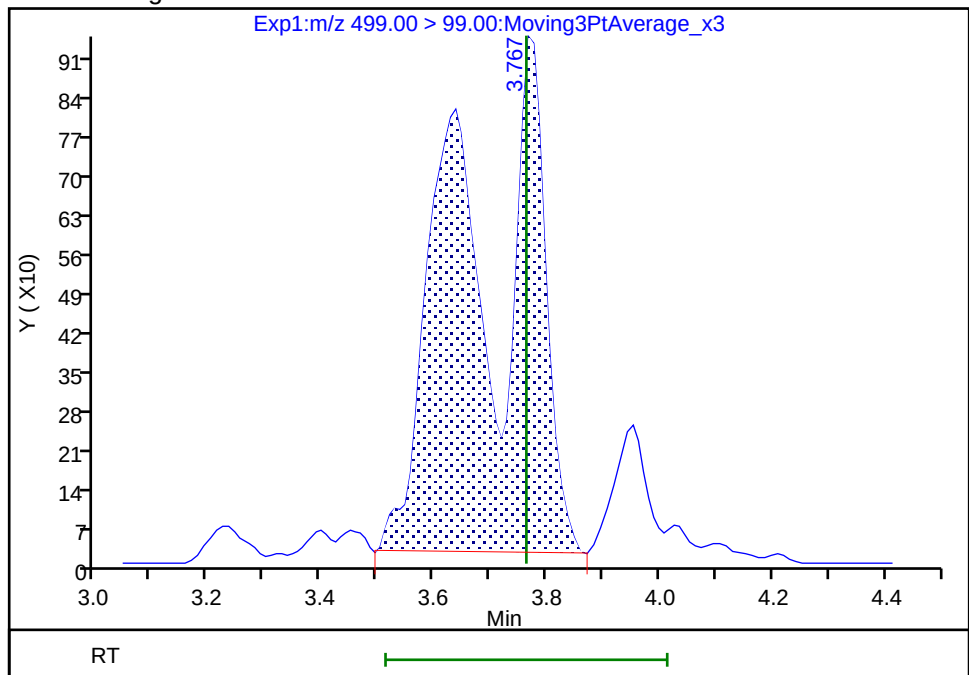
RT: 3.77
Area: 10686
Amount: 0.037139
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 8710
Amount: 0.032284
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 12:47:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

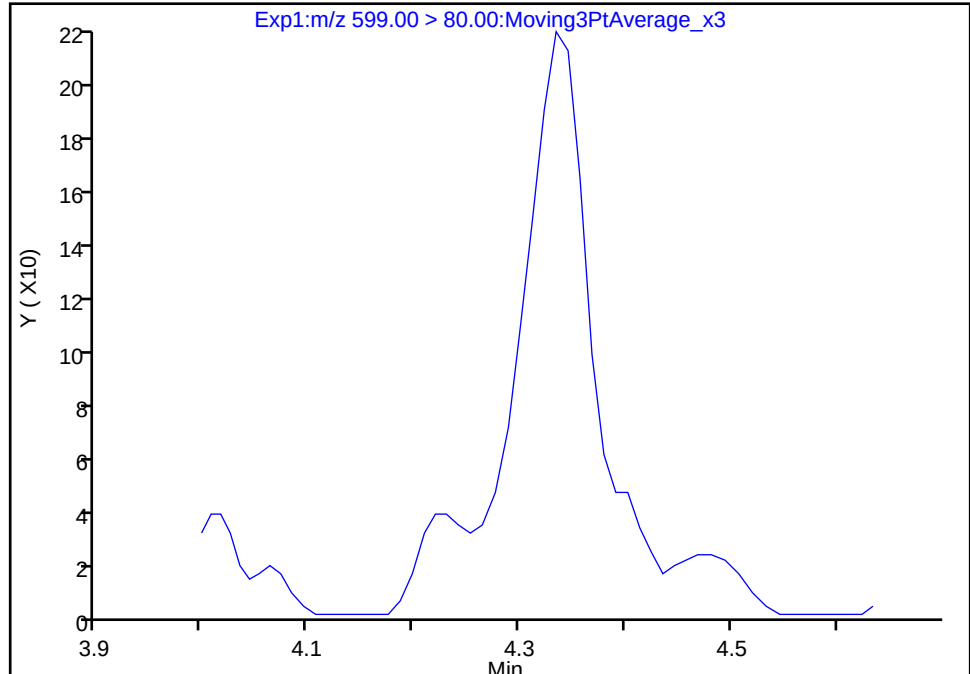
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

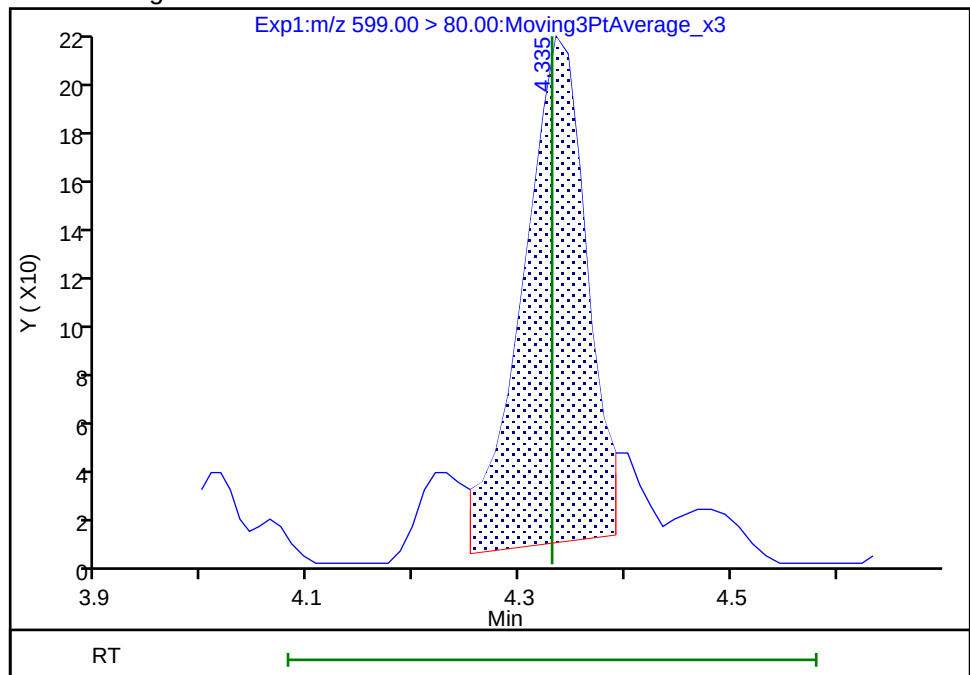
Signal: 1

Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:38:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

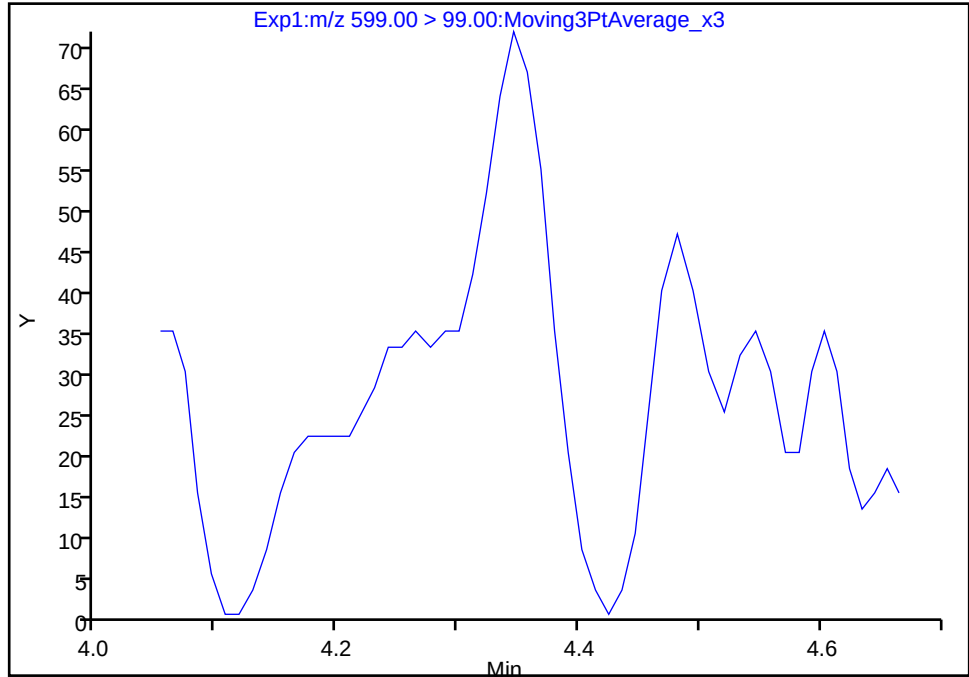
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d
Injection Date: 16-Dec-2022 12:50:31 Instrument ID: LC812
Lims ID: 460-270642-A-2-A Lab Sample ID: 200-270642-2
Client ID: BCS-21-10_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

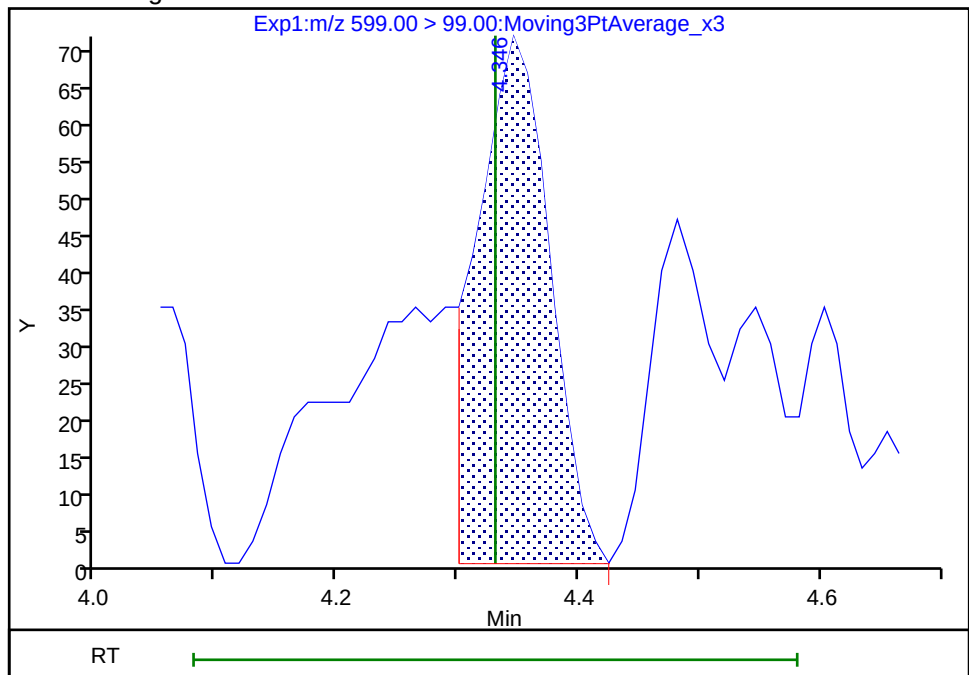
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 295
Amount: 0.001490
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:38:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

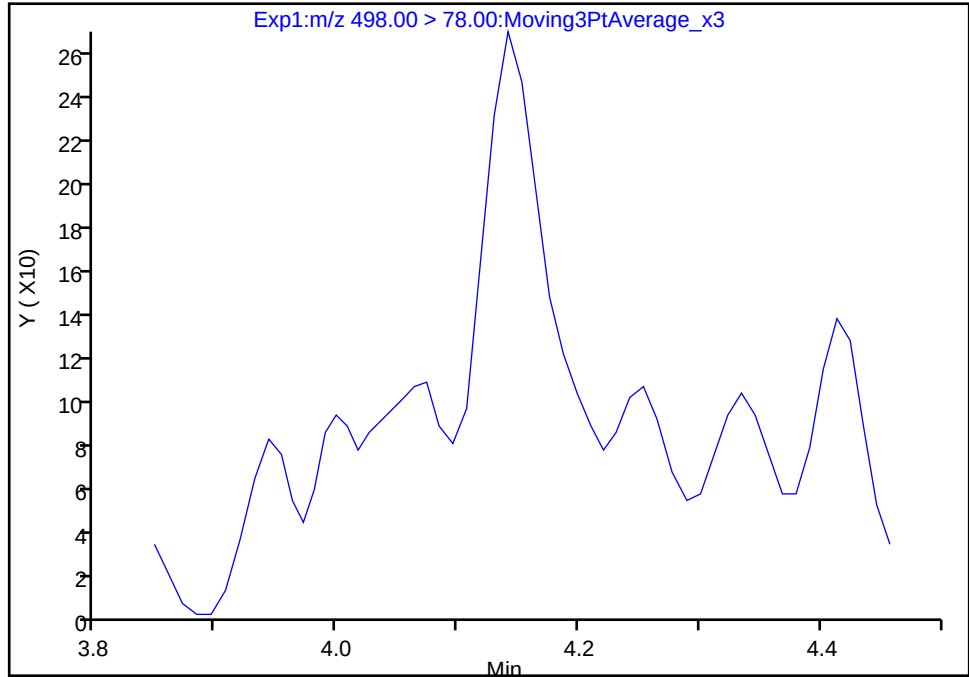
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

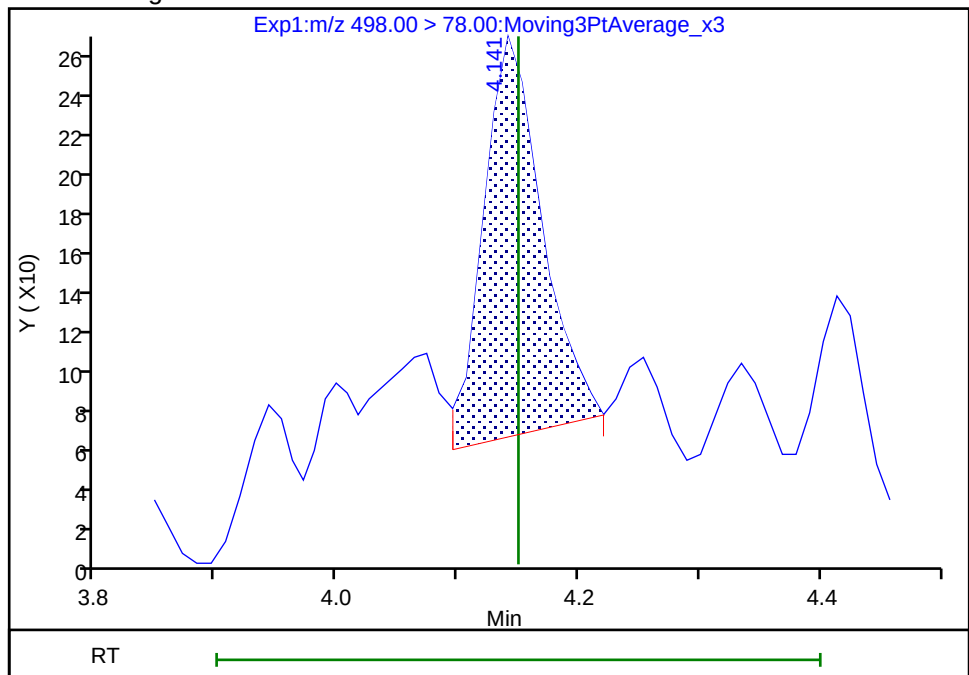
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 673
Amount: 0.000445
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:38:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

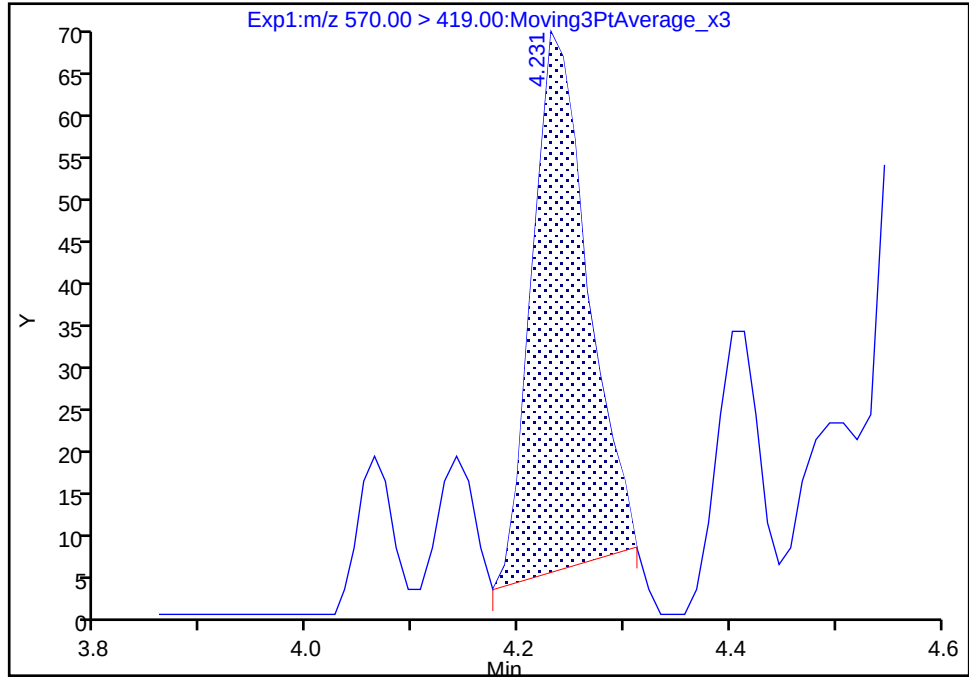
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	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

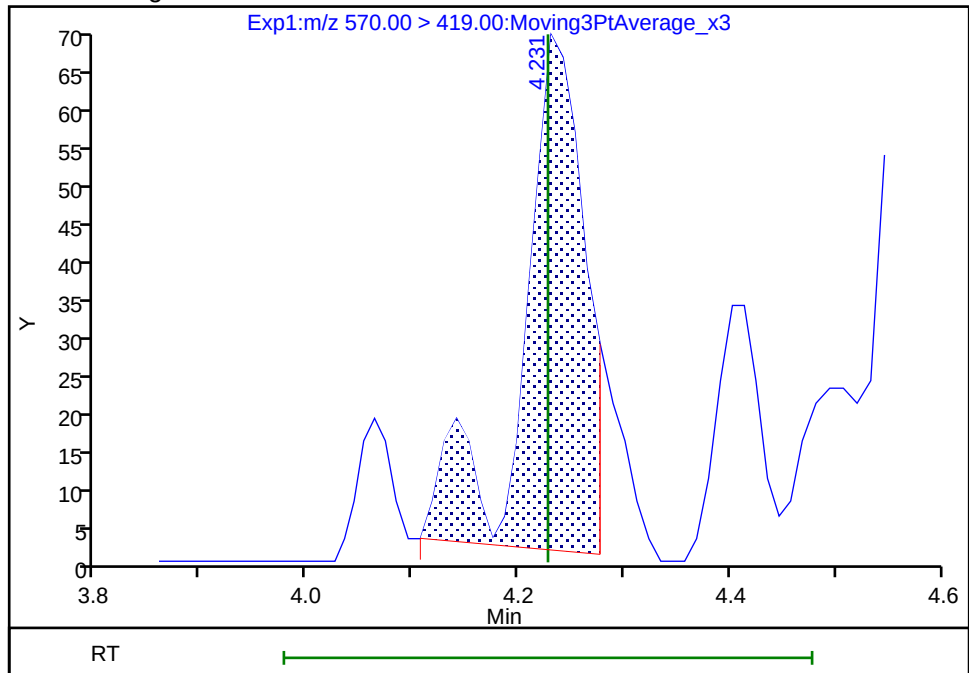
RT: 4.23
Area: 236
Amount: -0.010905
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 270
Amount: -0.010801
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:38:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d

Injection Date: 16-Dec-2022 12:50:31

Instrument ID: LC812

Lims ID: 460-270642-A-2-A

Lab Sample ID: 200-270642-2

Client ID: BCS-21-10_(10-10.5)P

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)

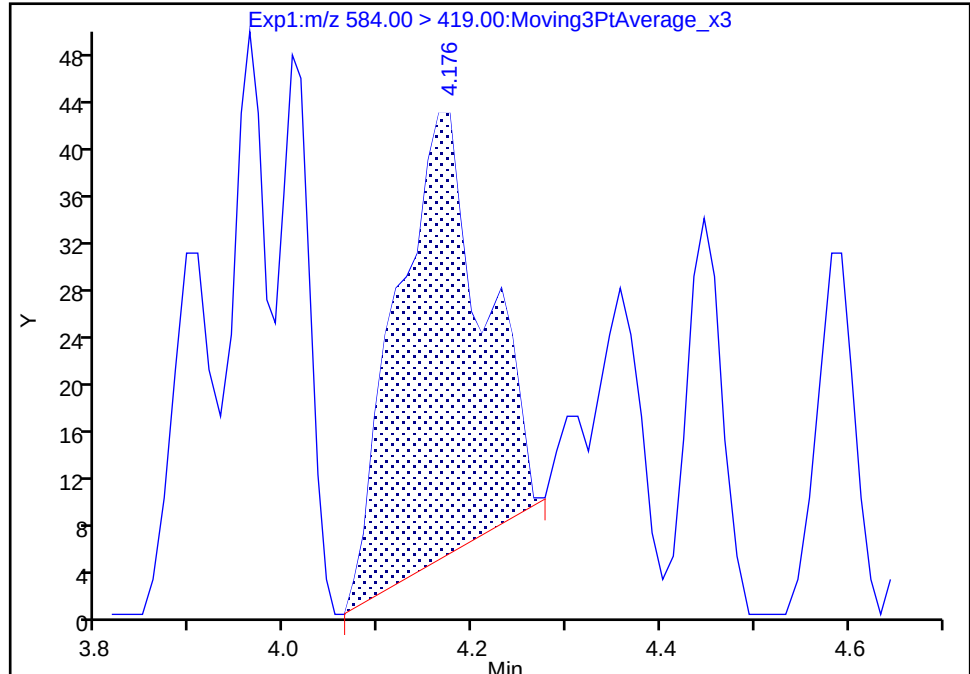
Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

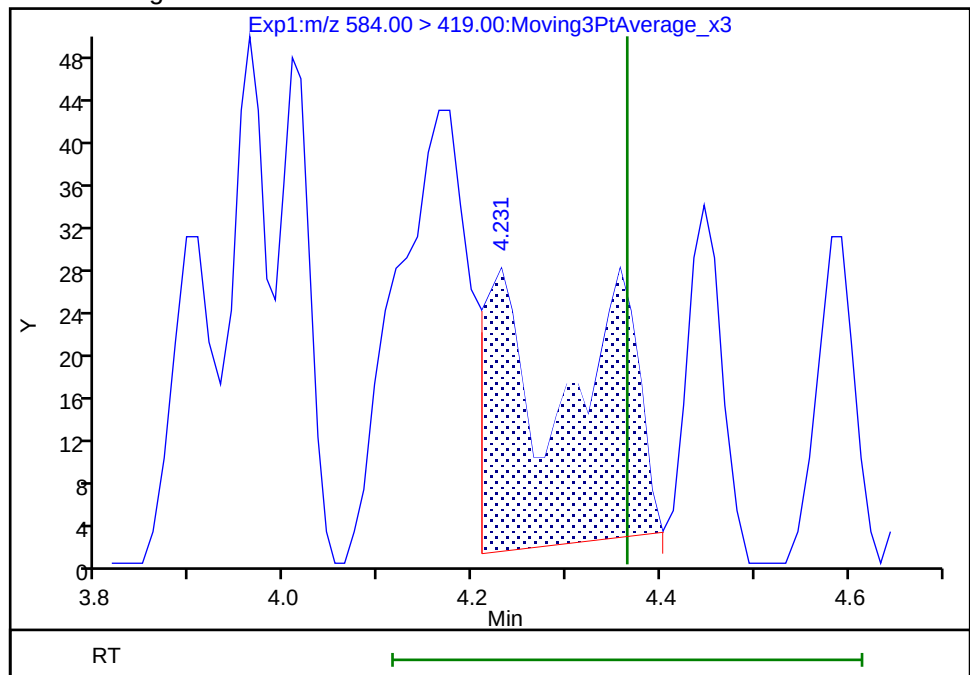
RT: 4.18
Area: 246
Amount: 0.000725
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 185
Amount: 0.000545
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:38:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

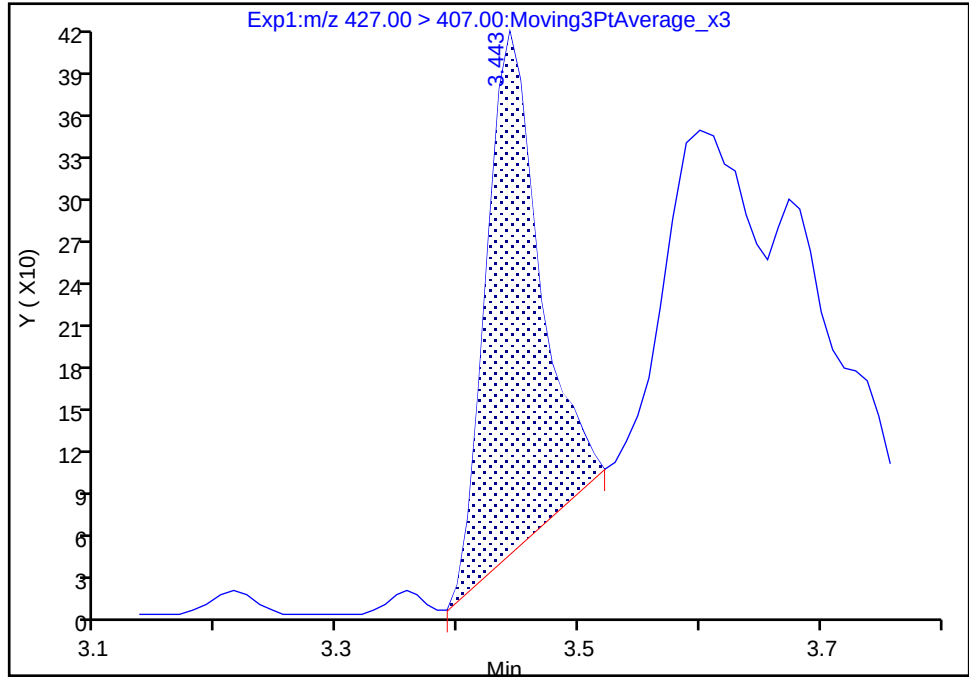
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

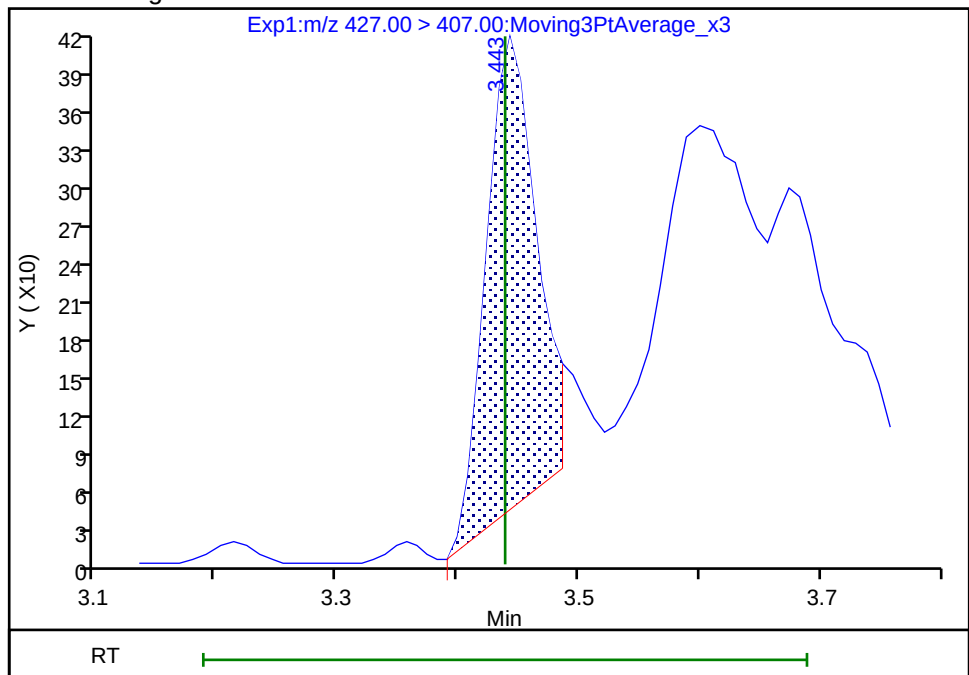
RT: 3.44
Area: 1149
Amount: -0.009121
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1067
Amount: -0.009317
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:36:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

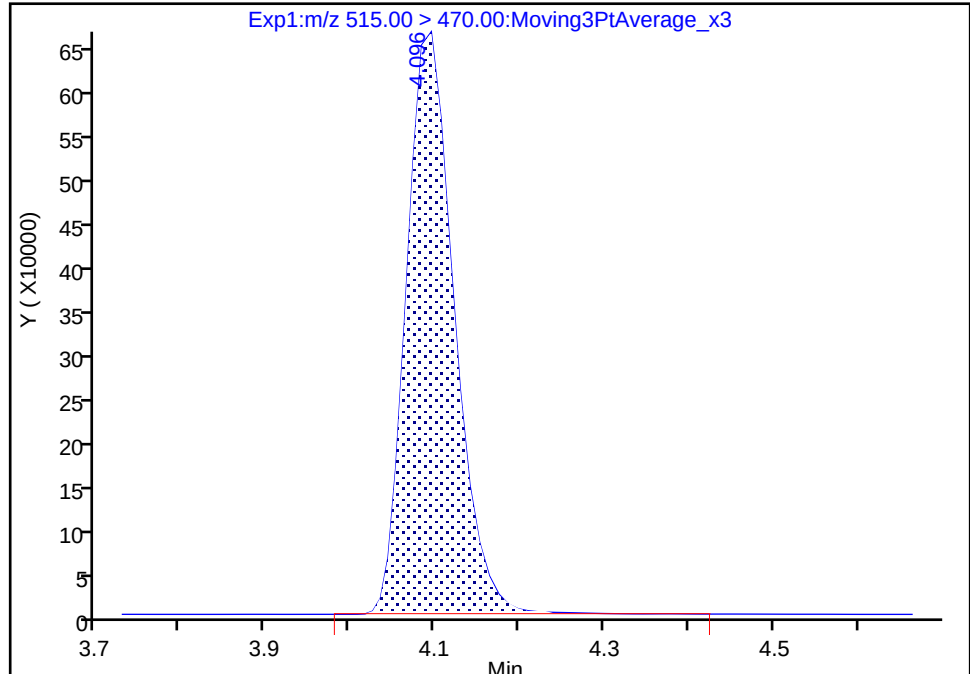
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

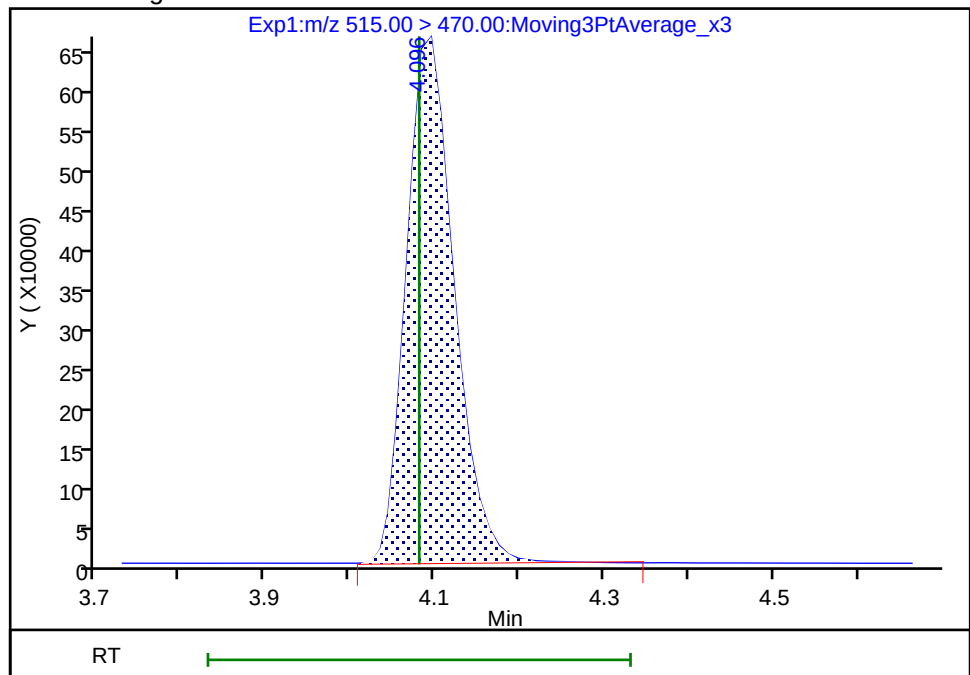
RT: 4.10
Area: 2611698
Amount: 1.293178
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 2607877
Amount: 1.291286
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:34:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

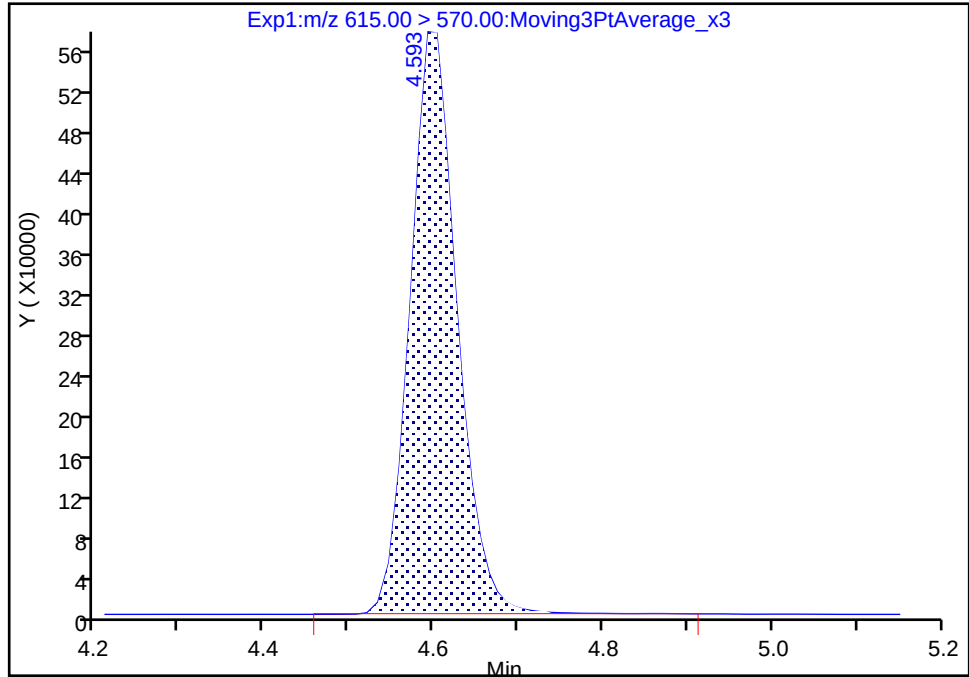
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

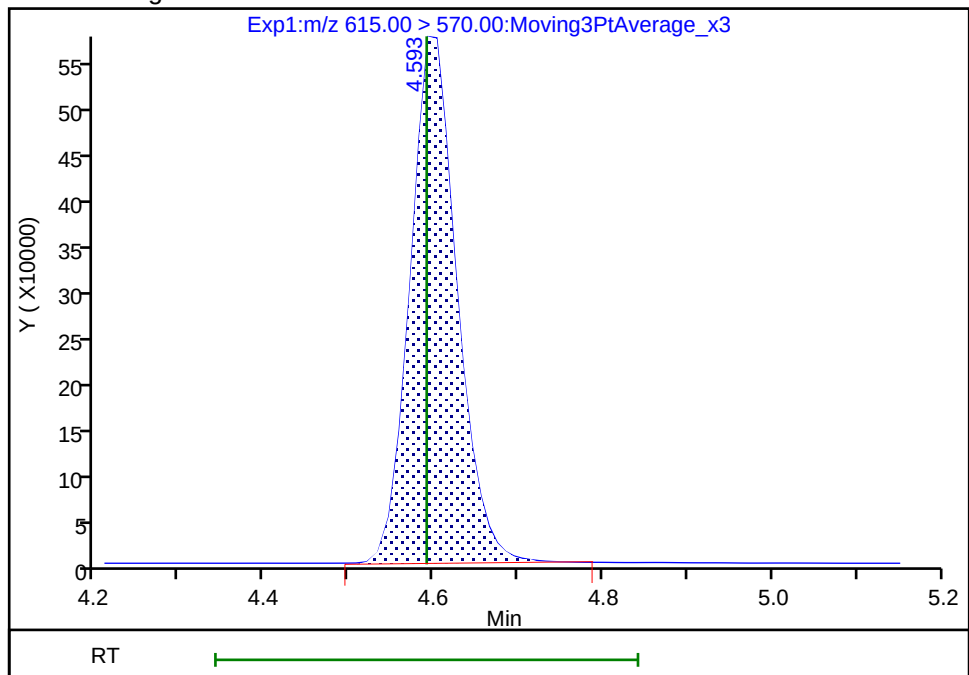
RT: 4.59
Area: 2238032
Amount: 1.187816
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2229115
Amount: 1.183083
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:34:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

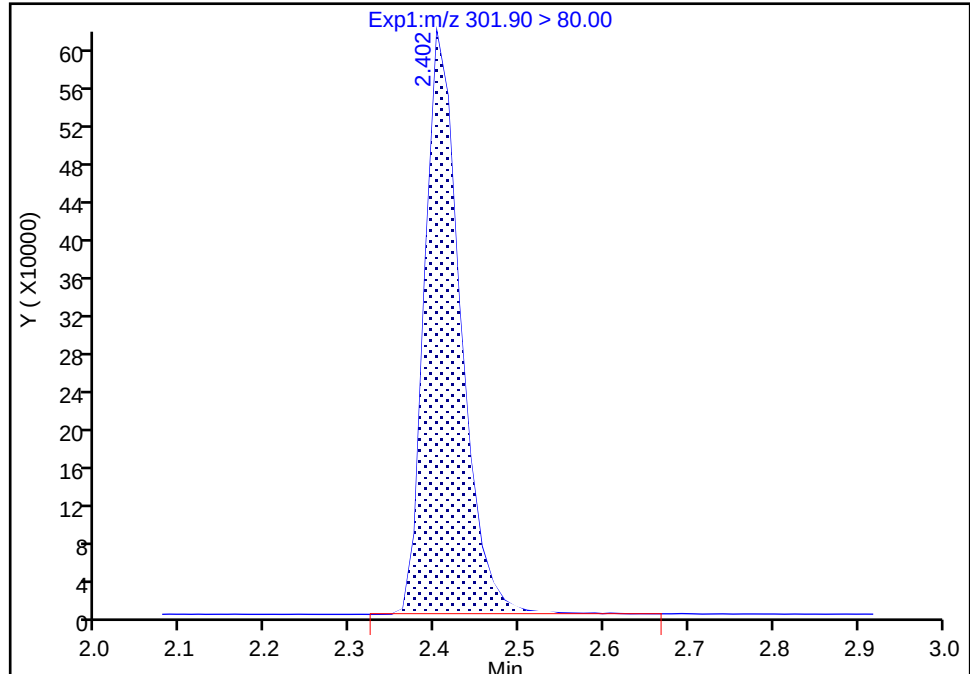
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A09.d				
Injection Date:	16-Dec-2022 12:50:31	Instrument ID:	LC812		
Lims ID:	460-270642-A-2-A	Lab Sample ID:	200-270642-2		
Client ID:	BCS-21-10_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

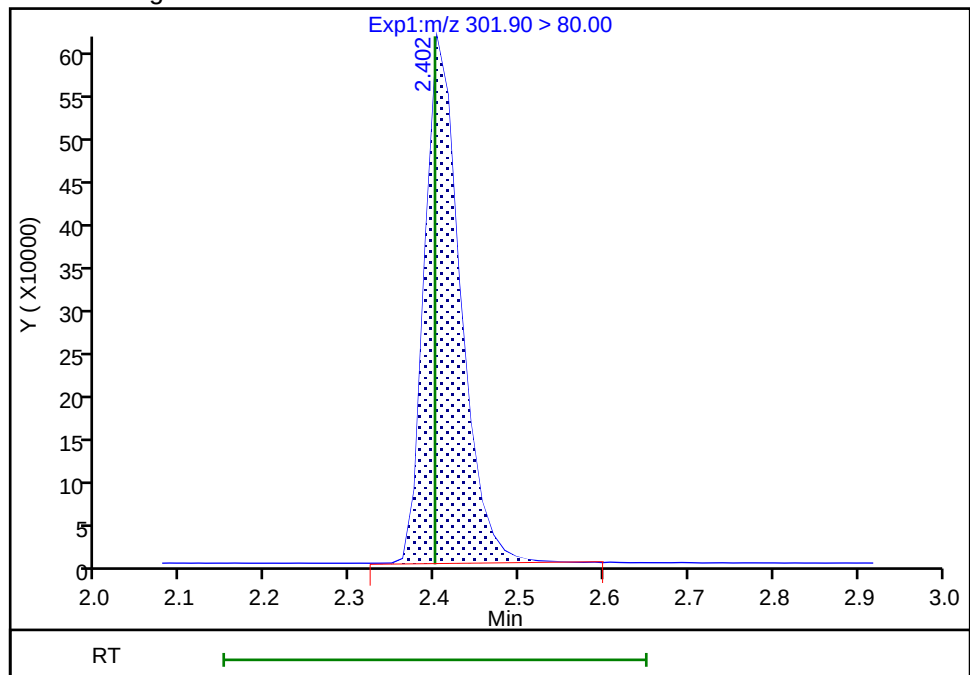
RT: 2.40
Area: 1816774
Amount: 0.993400
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1813659
Amount: 0.991697
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:34:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: BCS-21-11_(10-10.5)P Lab Sample ID: 460-270642-3

Matrix: Solid Lab File ID: PA221216A10.d

Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:25

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.00 (g) Date Analyzed: 12/16/2022 12:58

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 20.9 % Solids: 79.1 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.63	U	0.63	0.42
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.25	U	0.25	0.070
307-24-4	Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.058
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.073
375-95-1	Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.032
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.032
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.033
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.042
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.052
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.25	U	0.25	0.029
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.25	U	0.25	0.14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.25	U	0.25	0.024
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.25	U	0.25	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.53	U	2.53	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.53	U	2.53	0.10
27619-97-2	6:2 FTS	2.53	U	2.53	0.072
39108-34-4	8:2 FTS	2.53	U	2.53	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: BCS-21-11_(10-10.5)P Lab Sample ID: 460-270642-3
 Matrix: Solid Lab File ID: PA221216A10.d
 Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:25
 Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16
 Sample wt/vol: 5.00(g) Date Analyzed: 12/16/2022 12:58
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 20.9 % Solids: 79.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	88		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	93		50-150
STL00991	13C4 PFOS	90		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	63		50-150
STL00993	13C2 PFHxA	96		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	102		50-150
STL00998	13C2 PFDoA	99		50-150
STL01056	13C8 FOSA	84		50-150
STL01893	13C5 PFPeA	84		50-150
STL02116	13C2 PFTeDA	95		50-150
STL02118	d3-NMeFOSAA	98		50-150
STL02117	d5-NEtFOSAA	96		50-150
STL02279	M2-6:2 FTS	96		50-150
STL02280	M2-8:2 FTS	92		50-150
STL02337	13C3 PFBS	89		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
 Lims ID: 460-270642-A-3-A
 Client ID: BCS-21-11_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Dec-2022 12:58:41 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-270642-A-3-A
 Misc. Info.: 200-0053717-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 09:46:25

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	2.085	2.076	0.009	0.603	1834919	0.7847		62.8	5829	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	74492	0.0492		6.6		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.690	1863783	1.05		83.7	2315	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	35171	0.0216		0.8		M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.694	2002083	1.03		89.0	333643	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	3986	0.002023	Target=2.09	4.8		M
298.90 > 99.00	2.413	2.400	0.013	1.006	2237		1.78(1.04-3.13)	0.8		M
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.792	2246823	1.20		96.3	4444	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	32841	0.0168	Target=14.25	6.0		M
313.00 > 119.00	2.738	2.725	0.013	1.000	2428		13.53(7.12-21.37)	5.2		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.897	1467083	1.04		88.0	2974	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.000	6874	0.004909	Target=3.66	17.0		M
399.00 > 99.00	3.121	3.088	0.033	1.007	1961		3.51(1.83-5.49)	1.9		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.897	2300139	1.20		95.9	2738	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.110	3.099	0.011	1.004	17183	0.008577	Target=3.97	3.6		M
363.00 > 169.00	3.099	3.099	0.0	1.000	3775		4.55(1.98-5.95)	9.2		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.448	3.439	0.009	0.997	268359	1.14		95.6	547	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.456	3.439	0.017	1.003	1828	-0.008044			5.7	M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.439	3.439	0.0	0.911	458	0.000381	Target=5.14		2.4	RM
449.00 > 99.00	3.430	3.439	-0.009	0.909	220		2.08(2.57-7.72)		1.3	M
D 14 13C4 PFOA										
417.00 > 372.00	3.456	3.448	0.008	1.000	2520742	1.17		93.5	3509	
* 62 13C2 PFOA										
415.00 > 370.00	3.456	3.448	0.008		2605734	1.25			5057	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.456	3.448	0.008	1.000	47751	0.0221	Target=2.79		3.8	M
413.00 > 169.00	3.456	3.448	0.008	1.000	14657		3.26(1.40-4.19)		31.3	M
D 18 13C4 PFOS										
503.00 > 80.00	3.773	3.764	0.009	1.092	1027212	1.07		89.9	2699	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.773	3.764	0.009	1.000	17546	0.0168	Target=5.11		20.3	RM
499.00 > 99.00	3.618	3.764	-0.146	0.959	9989		1.76(2.55-7.66)		20.5	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.792	3.783	0.009	1.000	8937	0.004169	Target=8.55		1.8	M
463.00 > 169.00	3.783	3.783	0.0	0.997	929		9.62(4.28-12.83)		7.3	M
D 19 13C5 PFNA										
468.00 > 423.00	3.792	3.783	0.009	1.097	2583394	1.23		98.6	6696	M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.184	2704429	1.27		101	2658	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.093	4.081	0.012	1.000	6909	0.002945	Target=10.26		2.7	M
513.00 > 169.00	4.093	4.081	0.012	1.000	460		15.02(5.13-15.38)		1.9	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.093	0.011	1.187	319813	1.11		92.4	940	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	0.997	514	0.001190			5.9	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.150	0.0	1.000	4507	0.002918			18.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.201	1848164	1.06		84.4	2274	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.238	4.228	0.010	1.226	532957	1.23		98.0	1872	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.000	795	-0.009459			3.9	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.342	4.331	0.011	1.151	1708	0.002742	Target=2.51		6.9	M
599.00 > 99.00	4.331	4.331	0.0	1.148	834		2.05(1.25-3.76)		4.8	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.365	4.353	0.012	1.263	2500706	1.28		102	3581	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	0.997	4447	0.002206	Target=9.88	1.9		M
563.00 > 169.00	4.365	4.353	0.012	1.000	394		11.29(4.94-14.82)	7.0		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	734	0.002001		6.1		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.263	512209	1.20		95.7	969	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.591	0.010	1.000	4692	0.002246	Target=7.77	0.5		M
613.00 > 169.00	4.591	4.591	0.0	0.998	659		7.12(3.89-11.66)	4.2		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.591	0.010	1.331	2464685	1.24		98.9	4691	
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.803	4.804	-0.001	1.044	3068	0.001536	Target=5.21	0.3		RM
663.00 > 169.00	4.803	4.804	-0.001	1.044	321		9.56(2.60-7.81)	2.4		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.022	5.012	0.010	1.002	375	0.001669	Target=0.89	4.6		M
713.00 > 219.00	5.002	5.012	-0.010	0.998	426		0.88(0.44-1.33)	7.0		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.450	2052128	1.19		95.2	4784	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d

Injection Date: 16-Dec-2022 12:58:41

Instrument ID: LC812

Lims ID: 460-270642-A-3-A

Lab Sample ID: 200-270642-3

Client ID: BCS-21-11_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

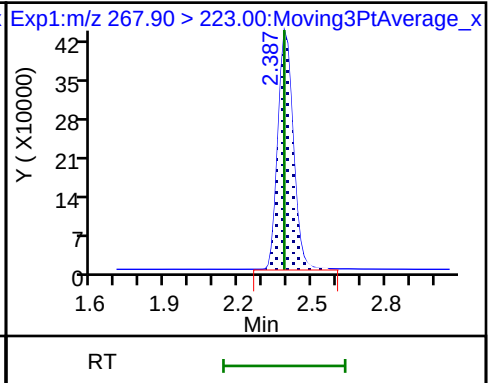
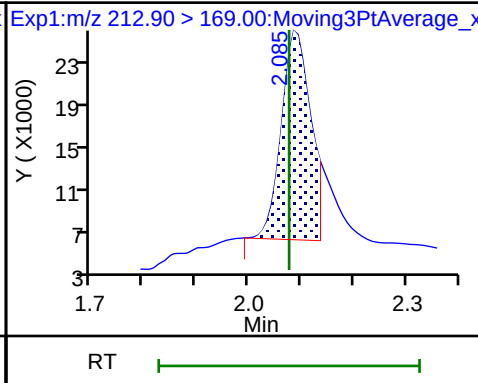
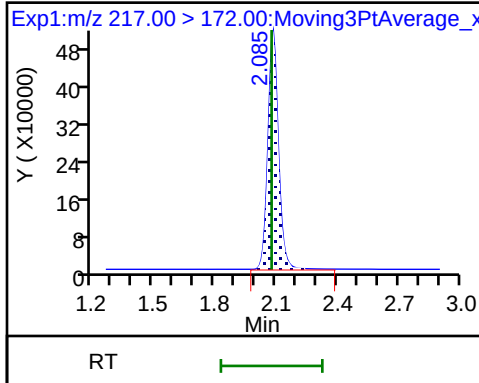
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

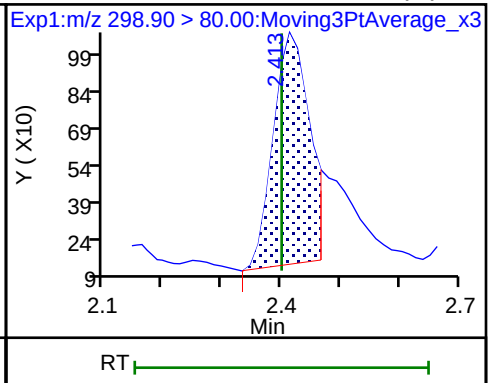
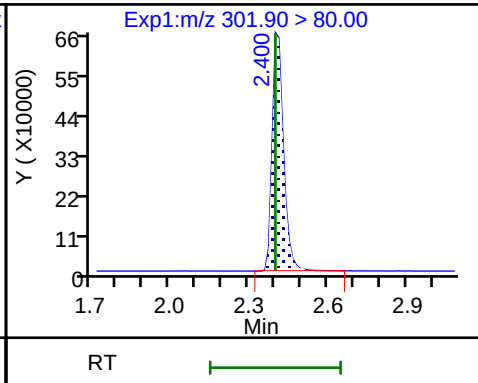
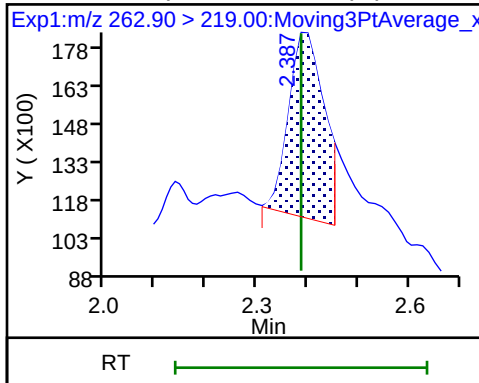
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

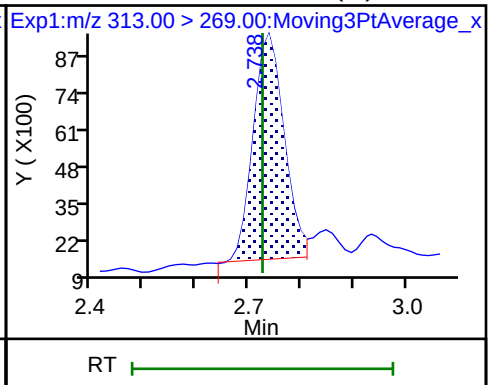
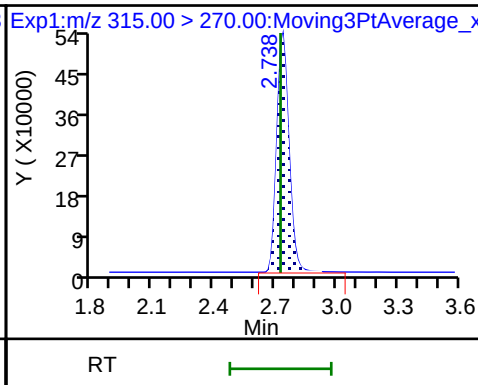
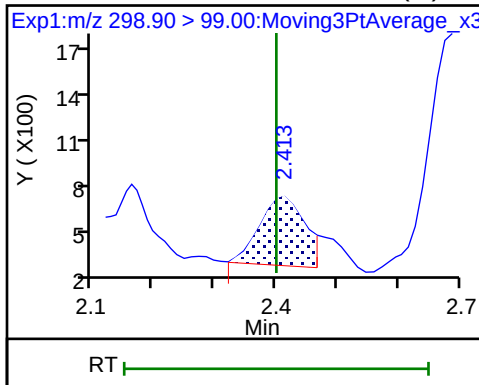
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

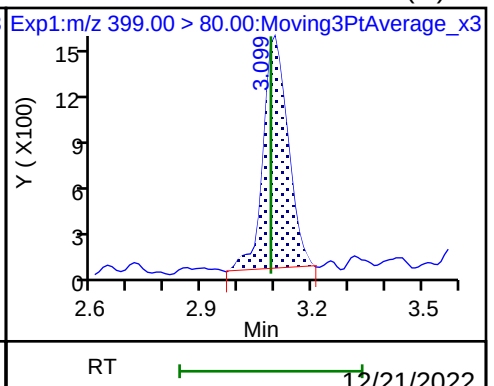
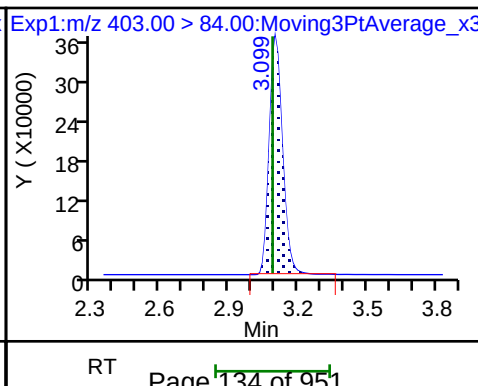
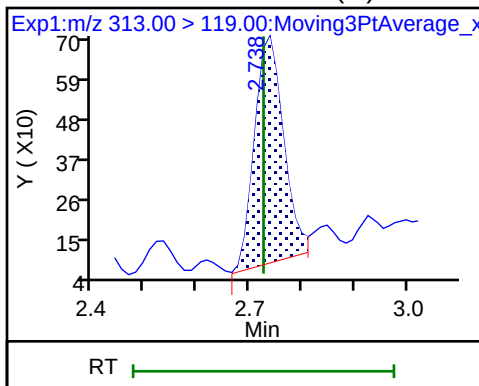
6 Perfluorohexanoic acid (M)

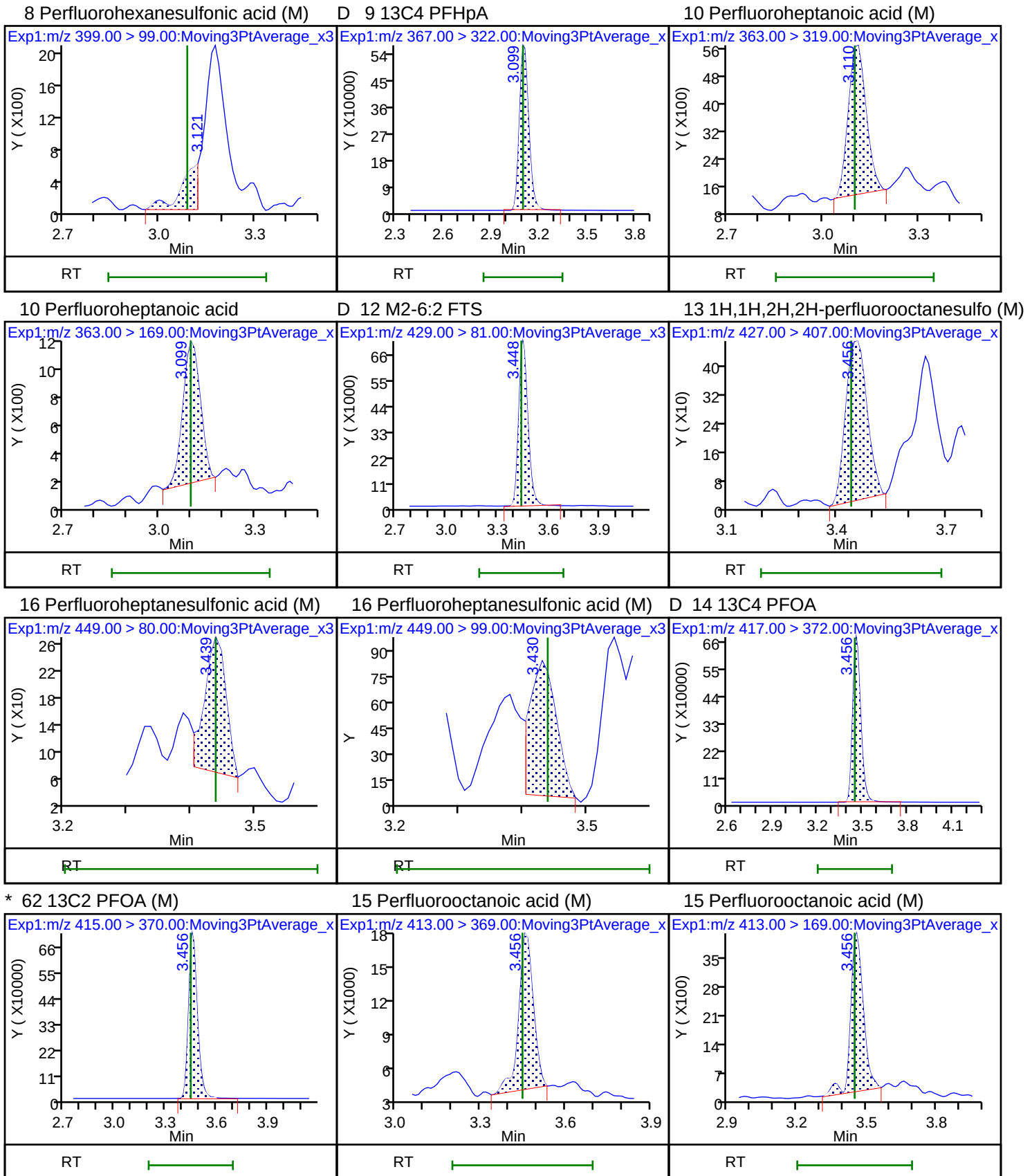


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

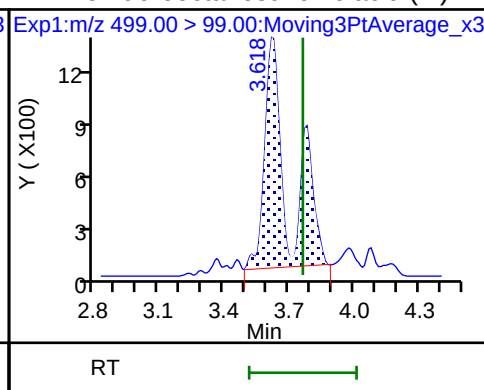
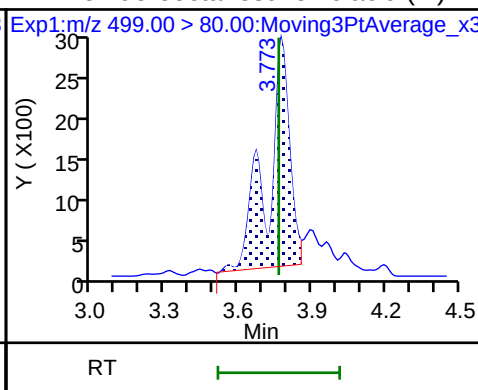
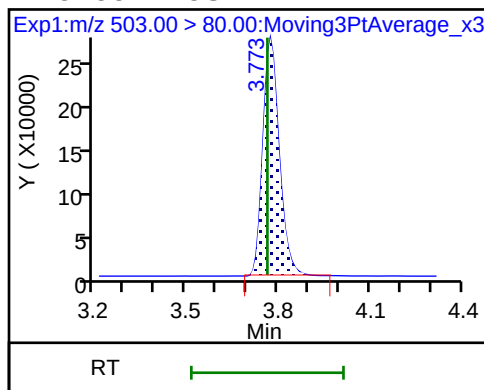




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

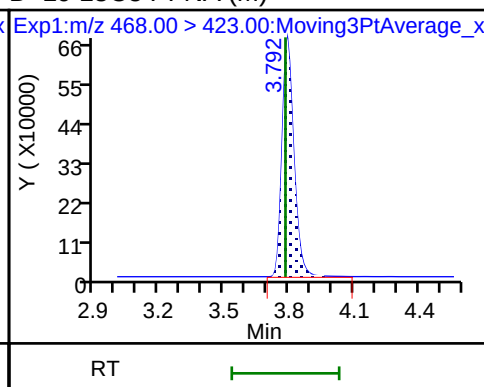
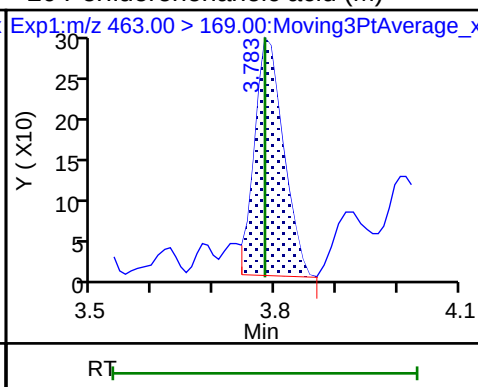
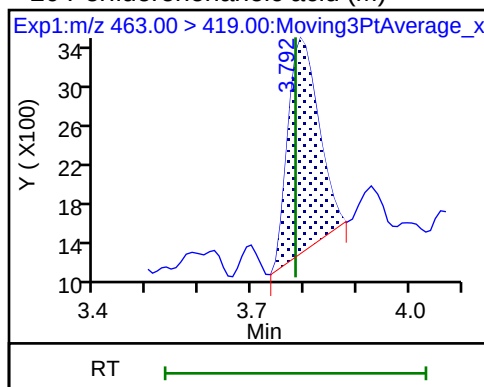
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

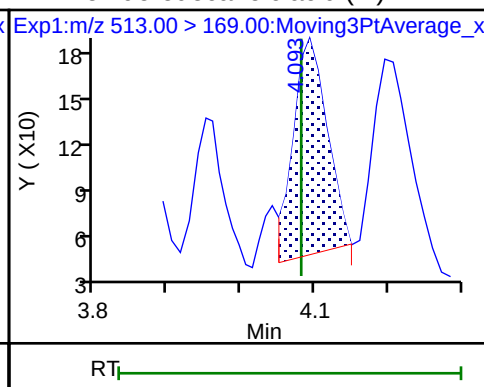
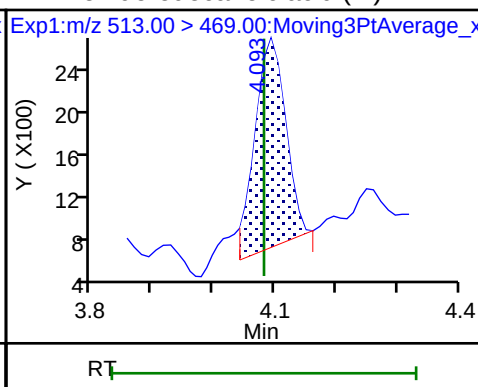
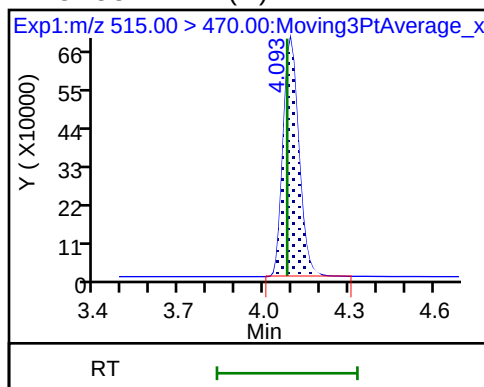
D 19 13C5 PFNA (M)



D 23 13C2 PFDA (M)

24 Perfluorodecanoic acid (M)

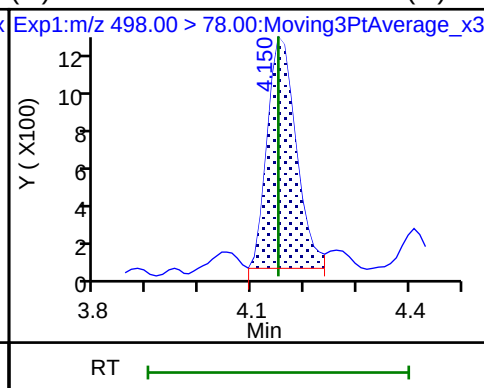
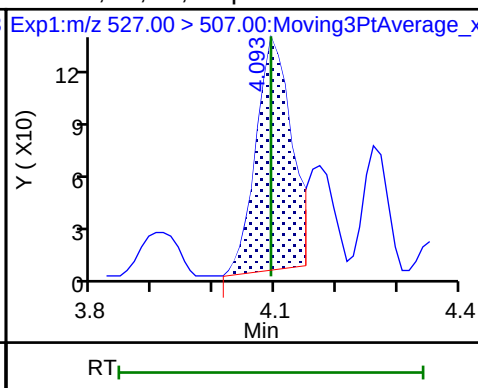
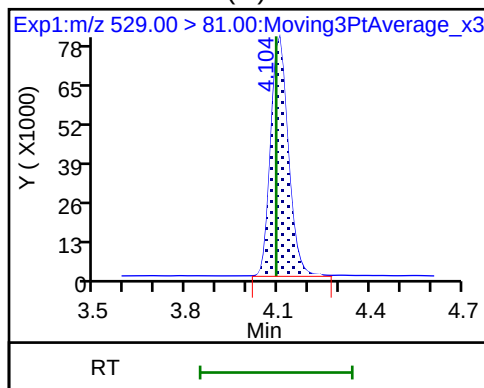
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS (M)

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

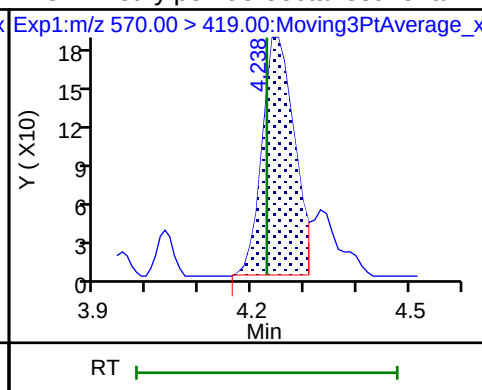
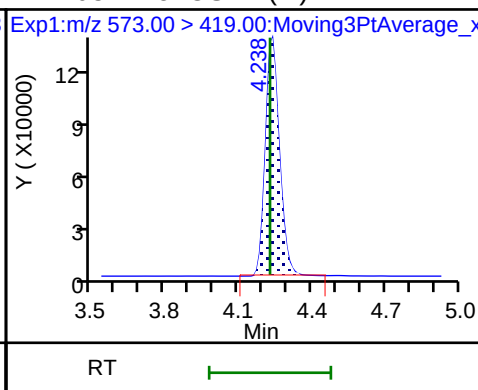
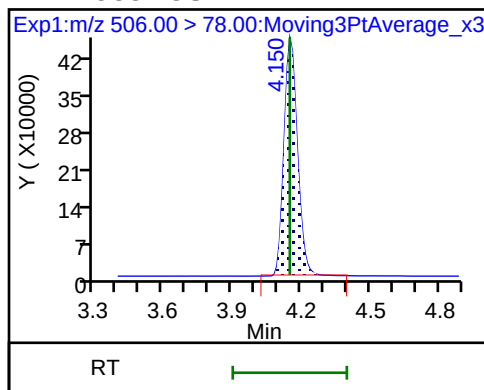
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA (M)

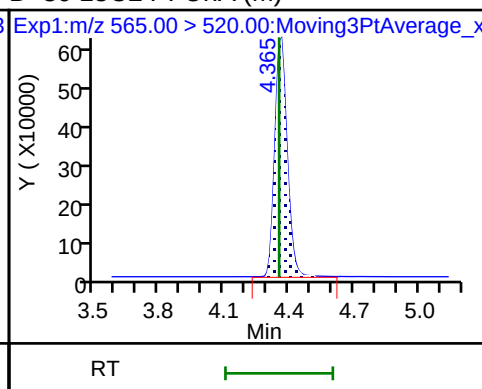
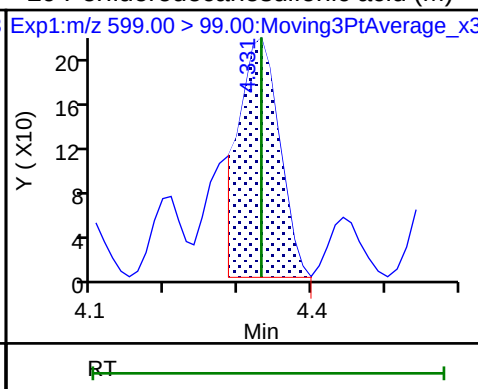
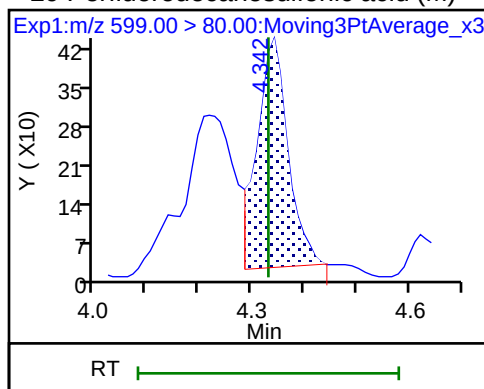
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

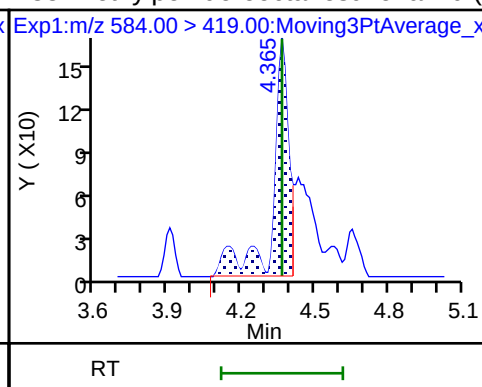
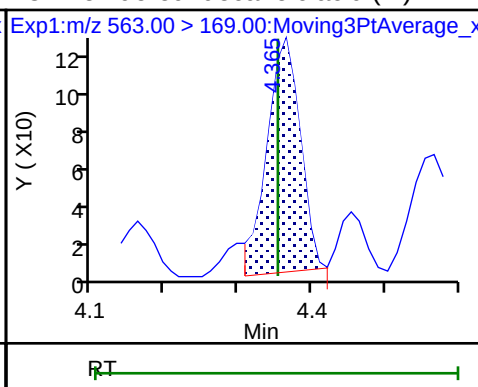
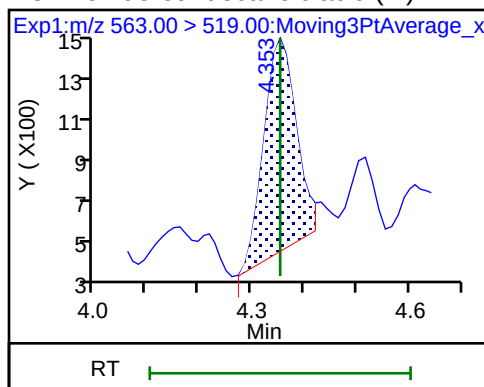
D 30 13C2 PFUnA (M)



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

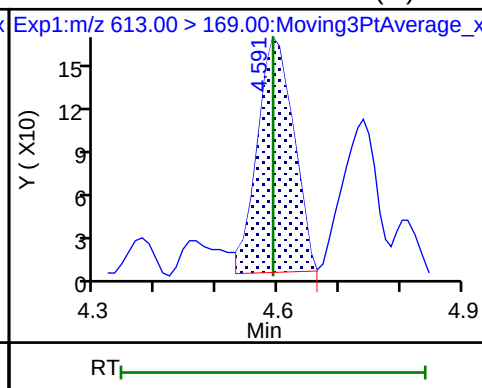
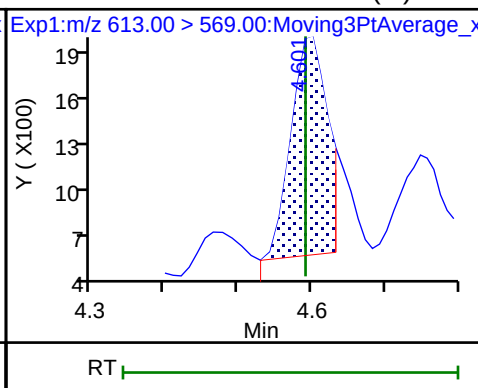
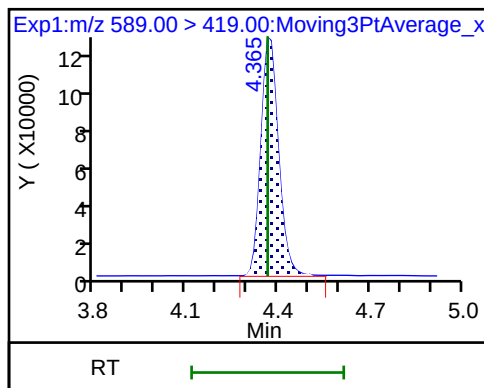
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

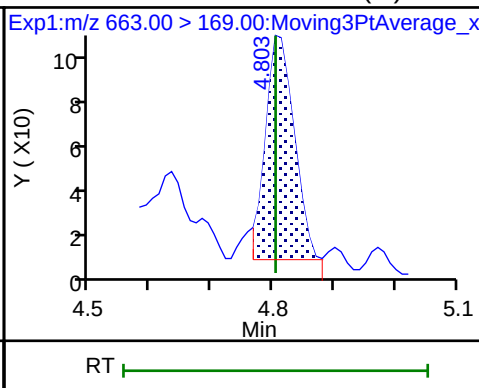
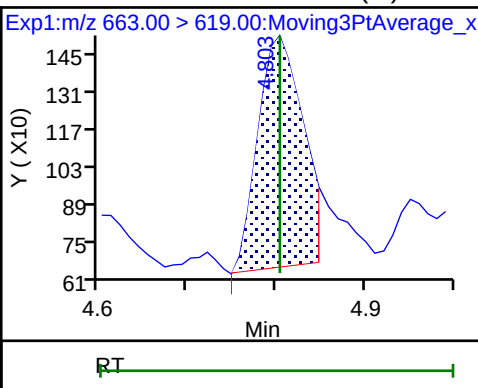
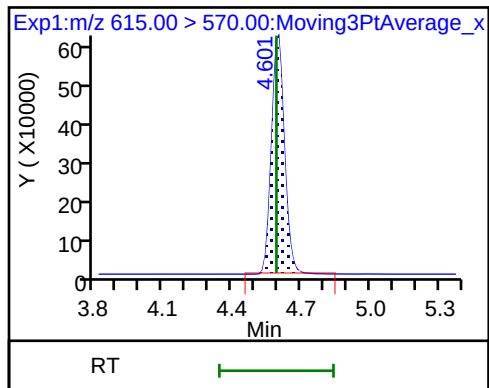
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

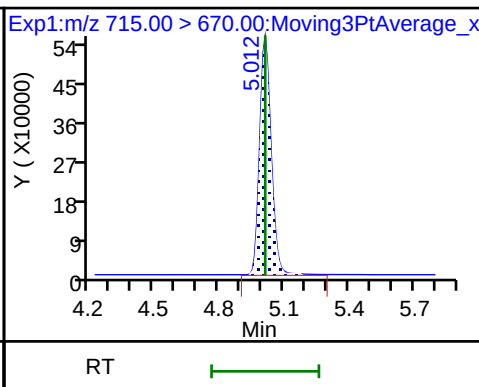
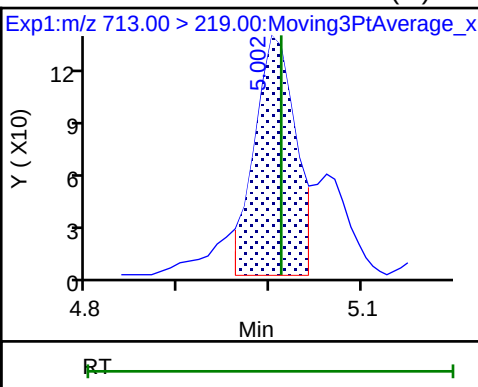
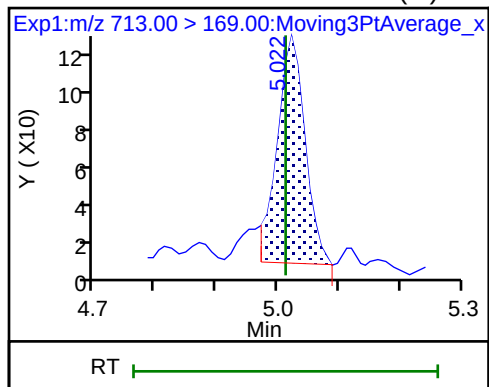
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



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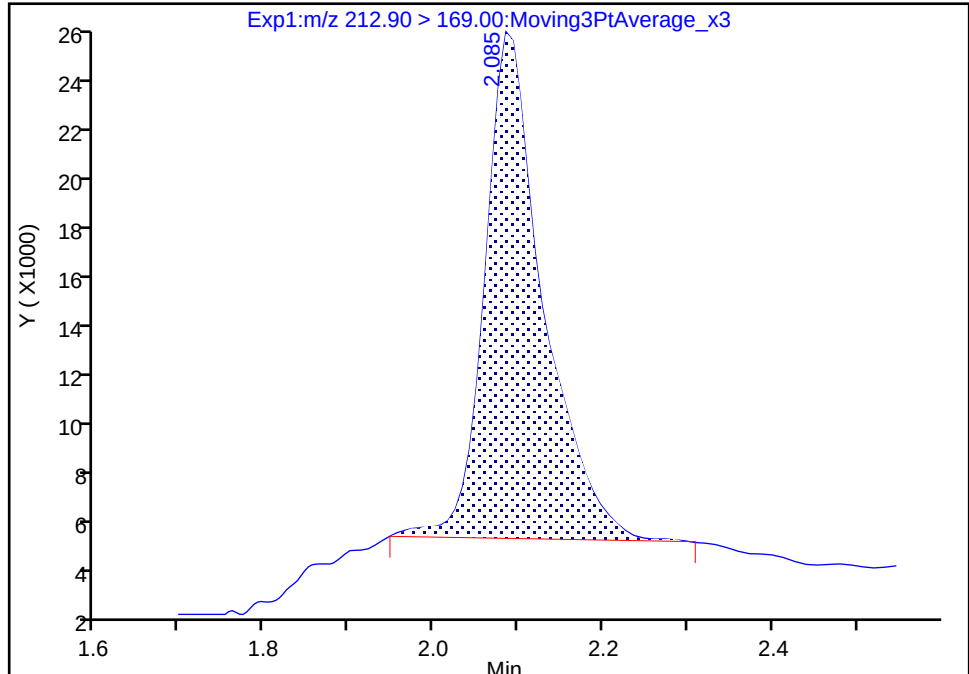
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Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

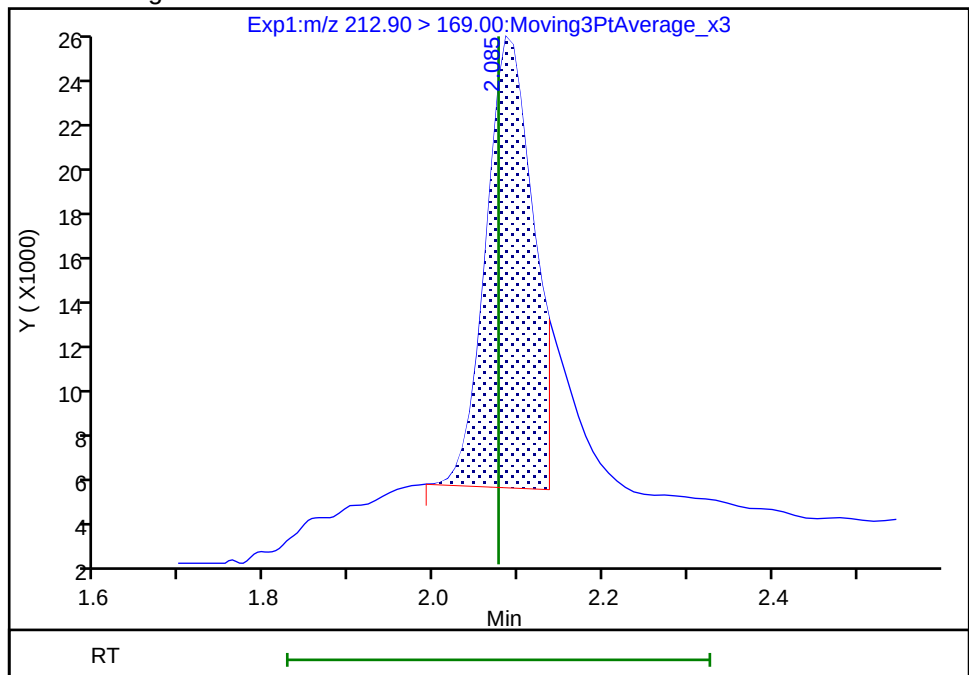
RT: 2.08
Area: 94974
Amount: 0.062742
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 74492
Amount: 0.049211
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:41:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

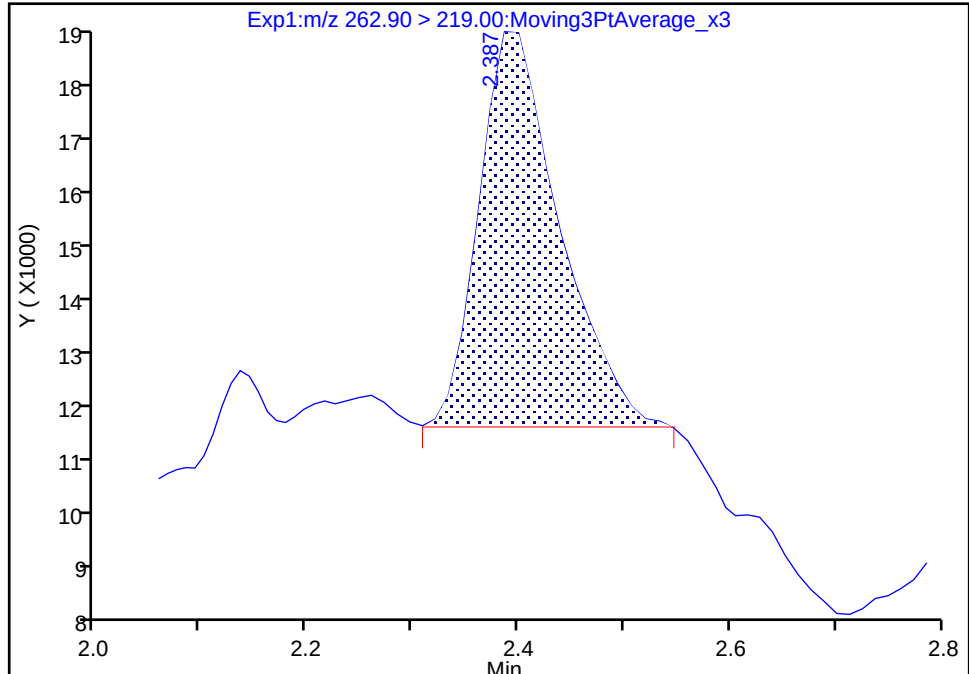
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Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

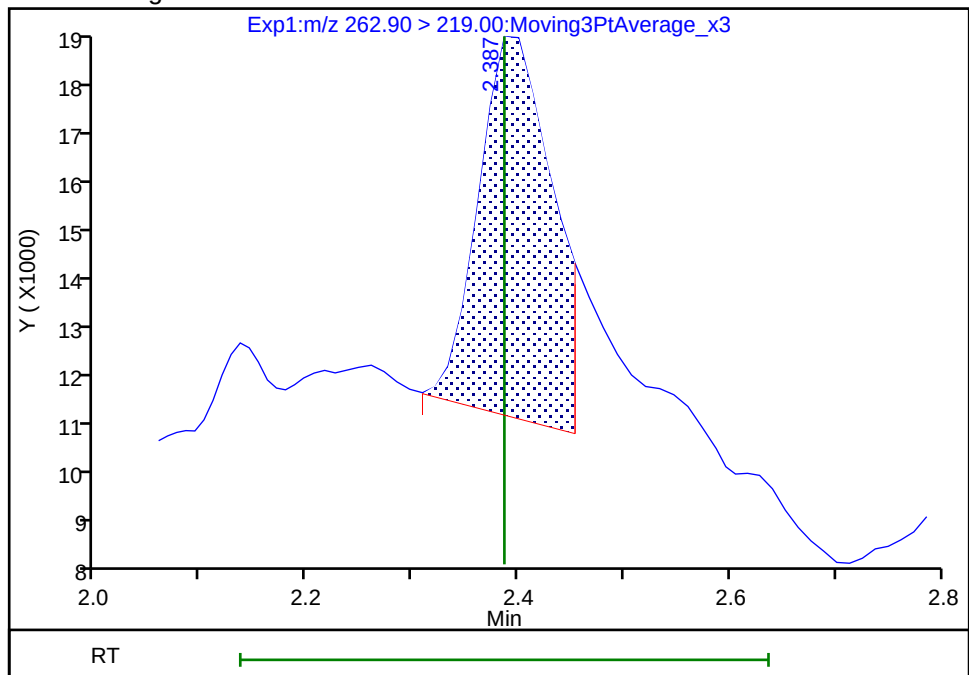
RT: 2.39
Area: 36605
Amount: 0.022527
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 35171
Amount: 0.021644
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:41:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

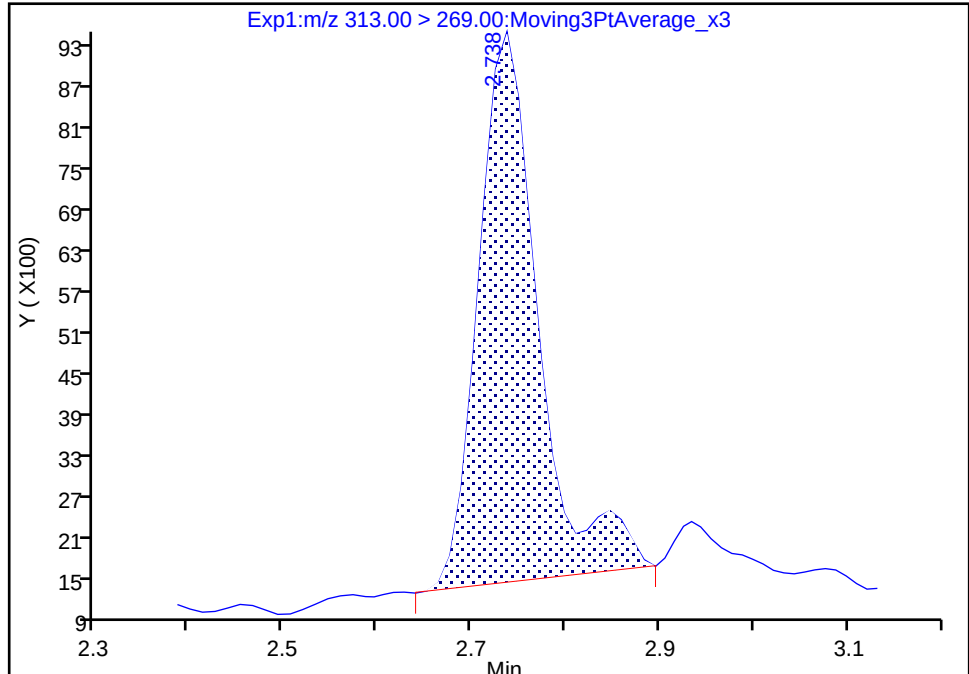
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Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

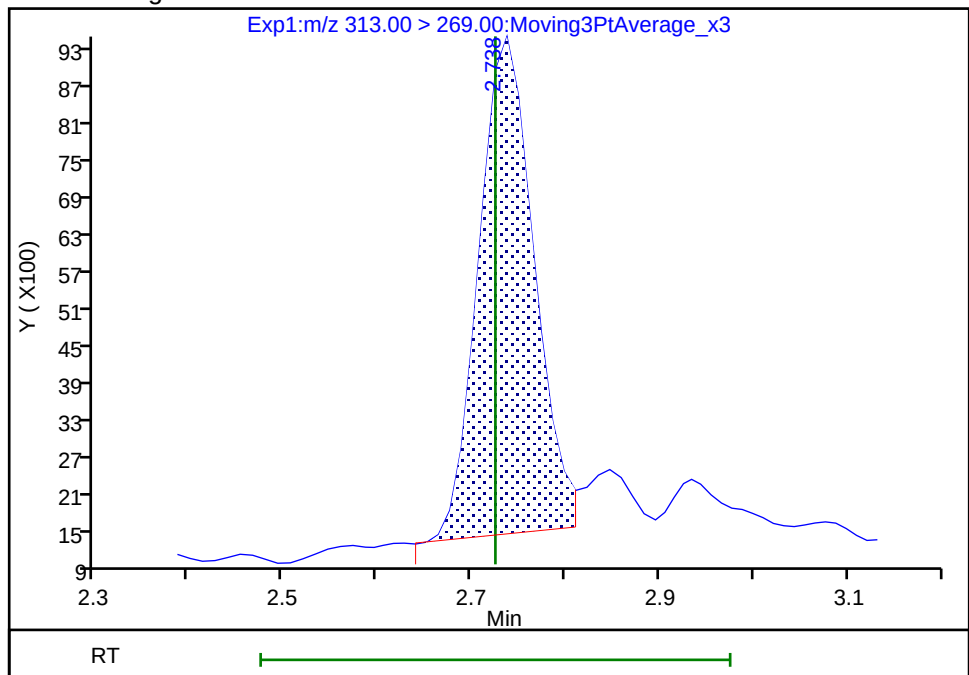
RT: 2.74
Area: 35701
Amount: 0.018228
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 32841
Amount: 0.016768
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:42:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

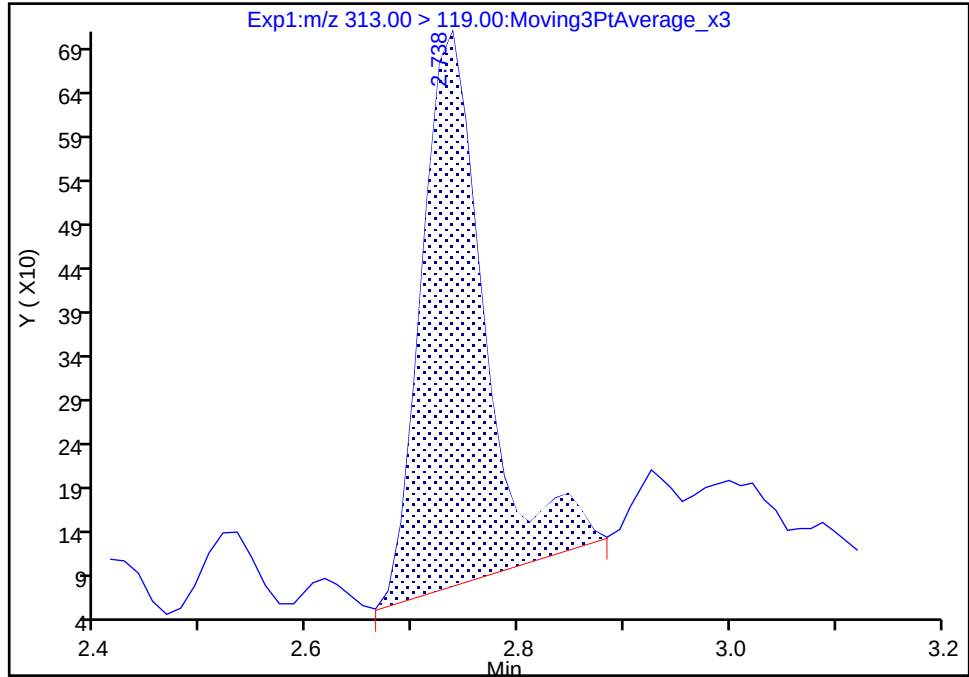
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

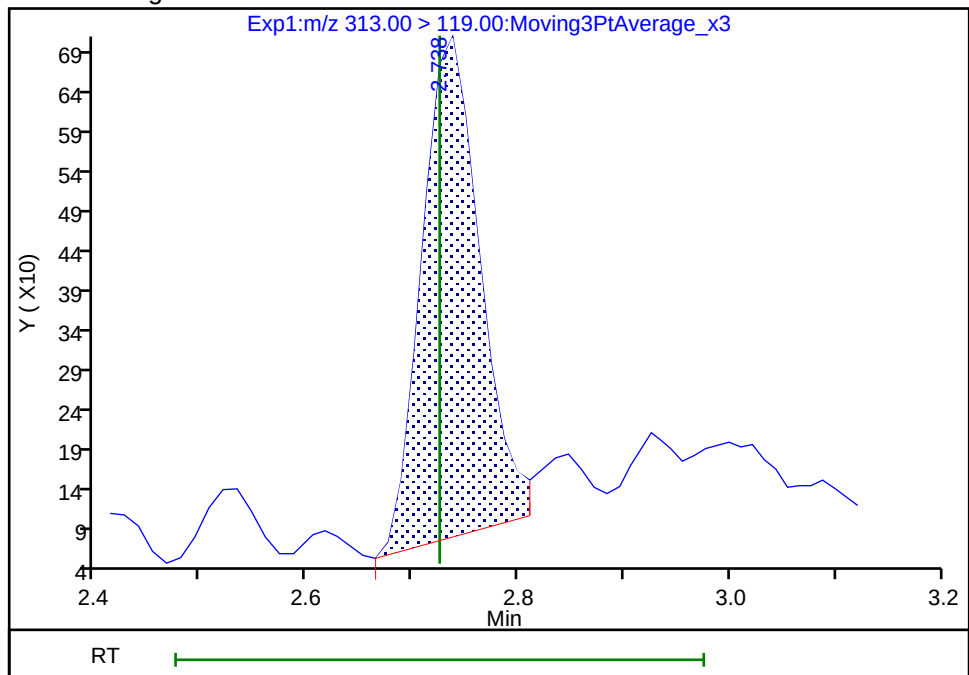
RT: 2.74
Area: 2611
Amount: 0.018228
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 2428
Amount: 0.016768
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:42:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

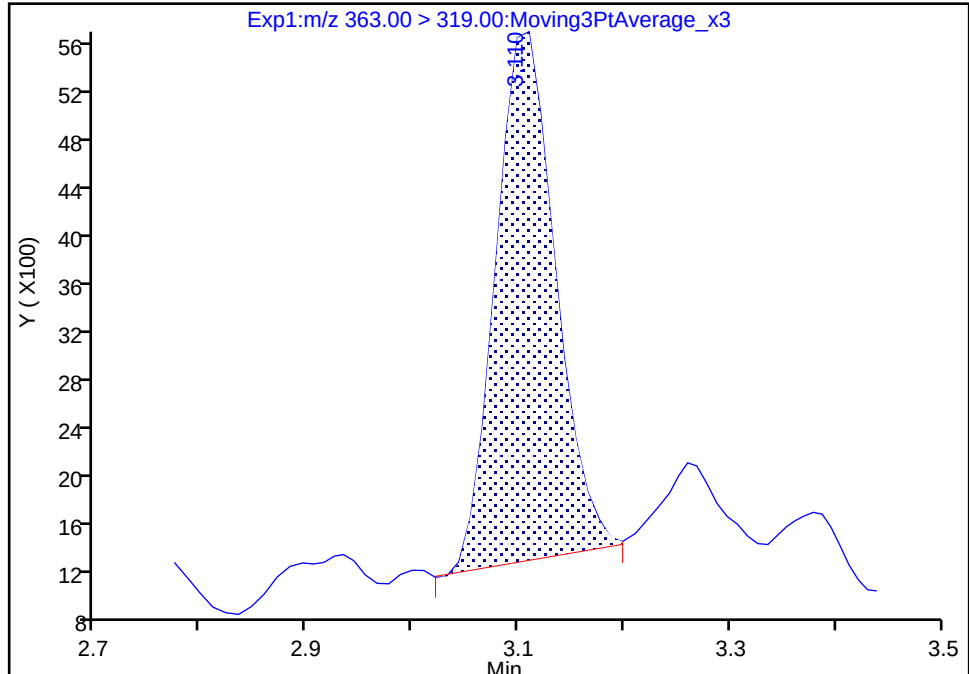
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Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

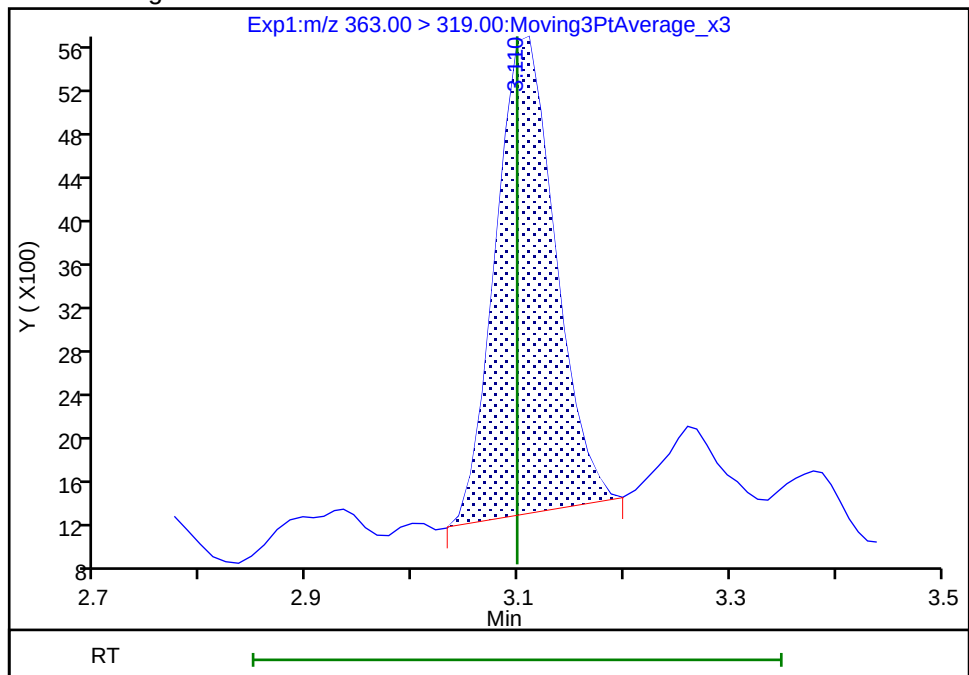
RT: 3.11
Area: 17303
Amount: 0.008636
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 17183
Amount: 0.008577
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:42:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

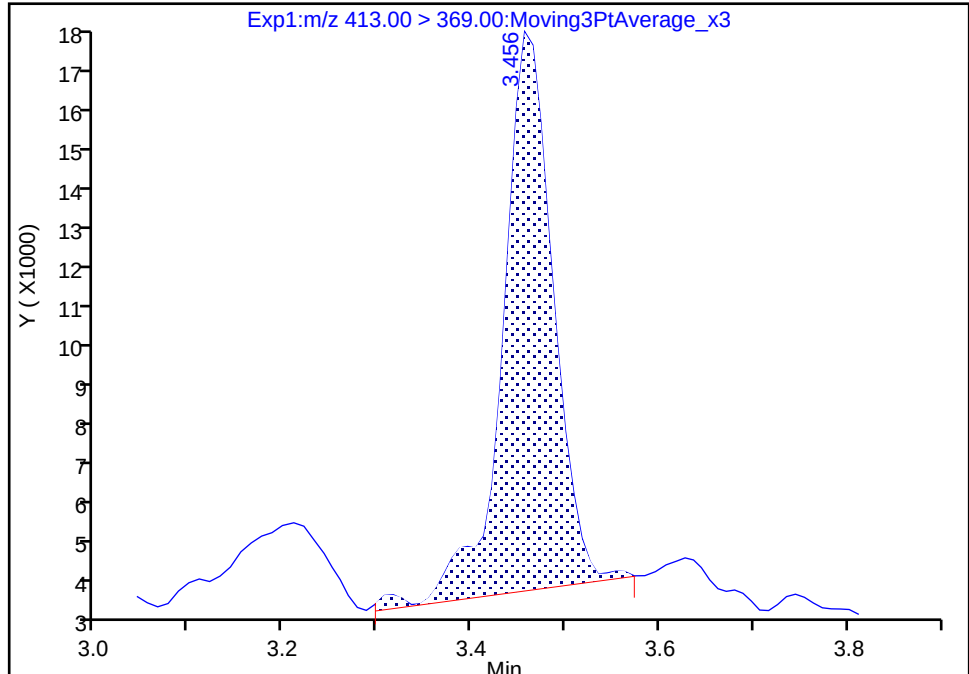
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Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

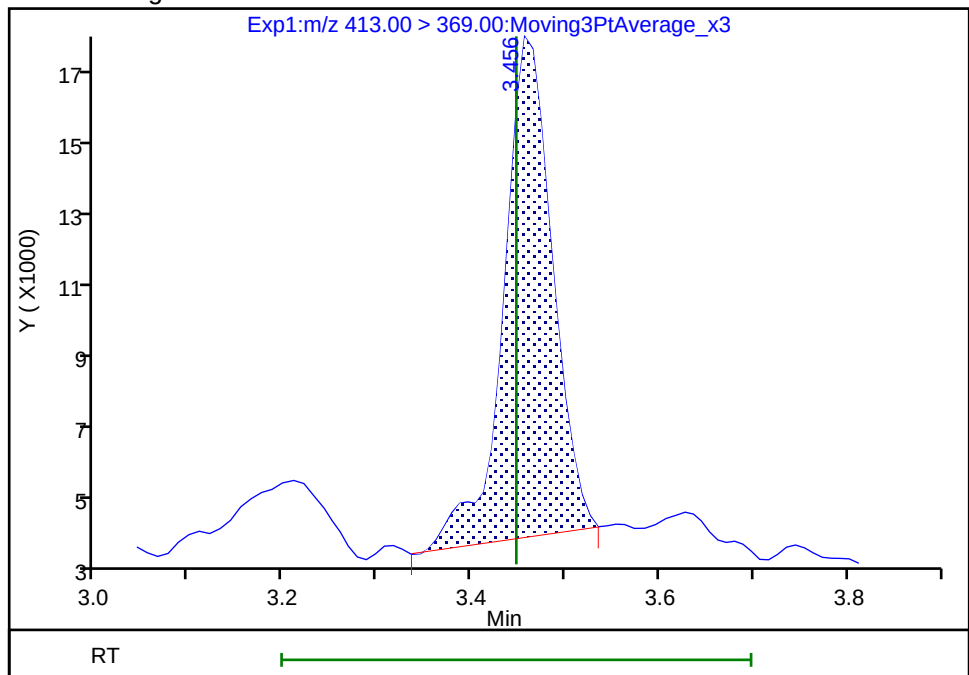
RT: 3.46
Area: 49669
Amount: 0.023040
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 47751
Amount: 0.022150
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:43:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

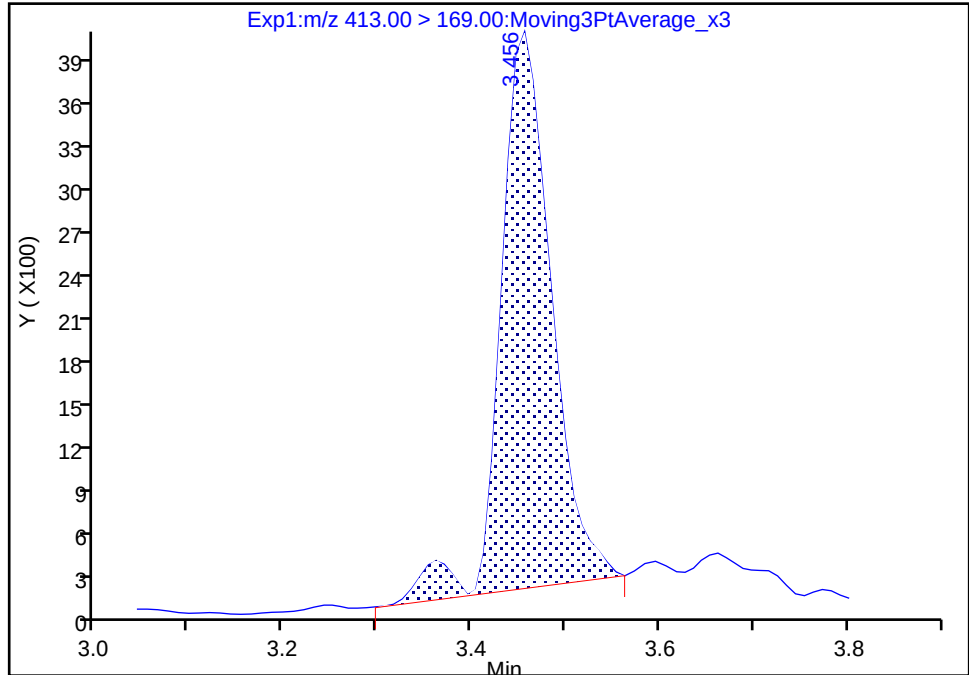
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

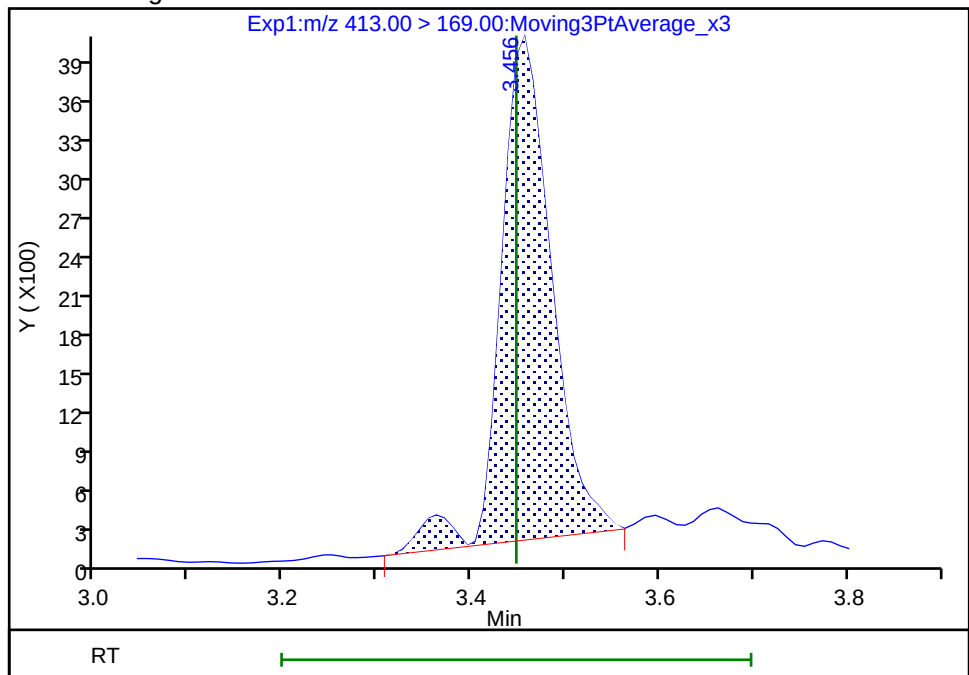
RT: 3.46
Area: 14706
Amount: 0.023040
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
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Amount: 0.022150
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:43:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

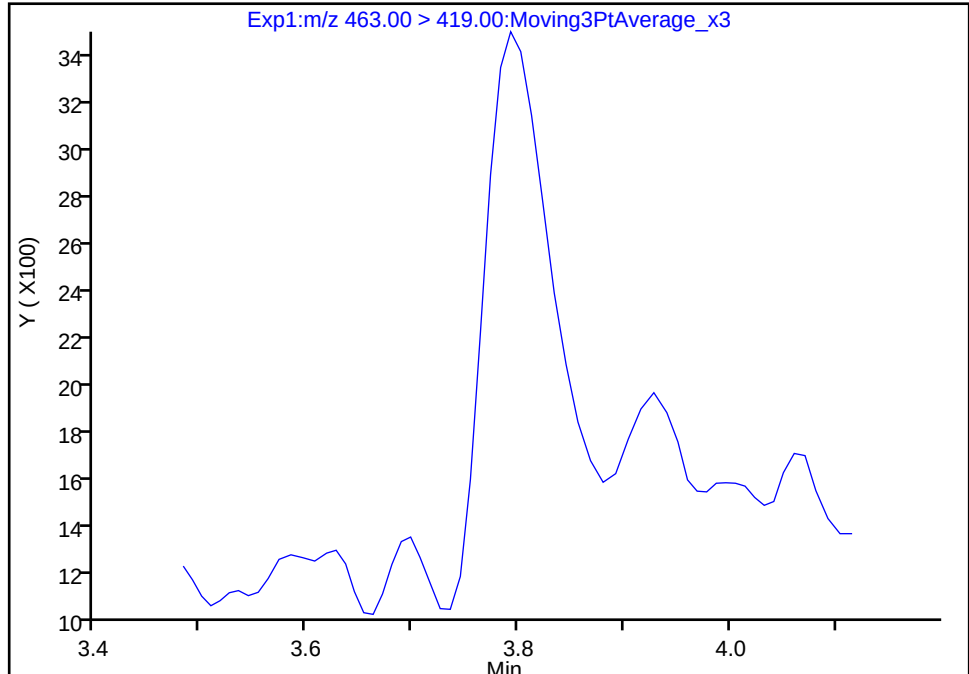
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Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

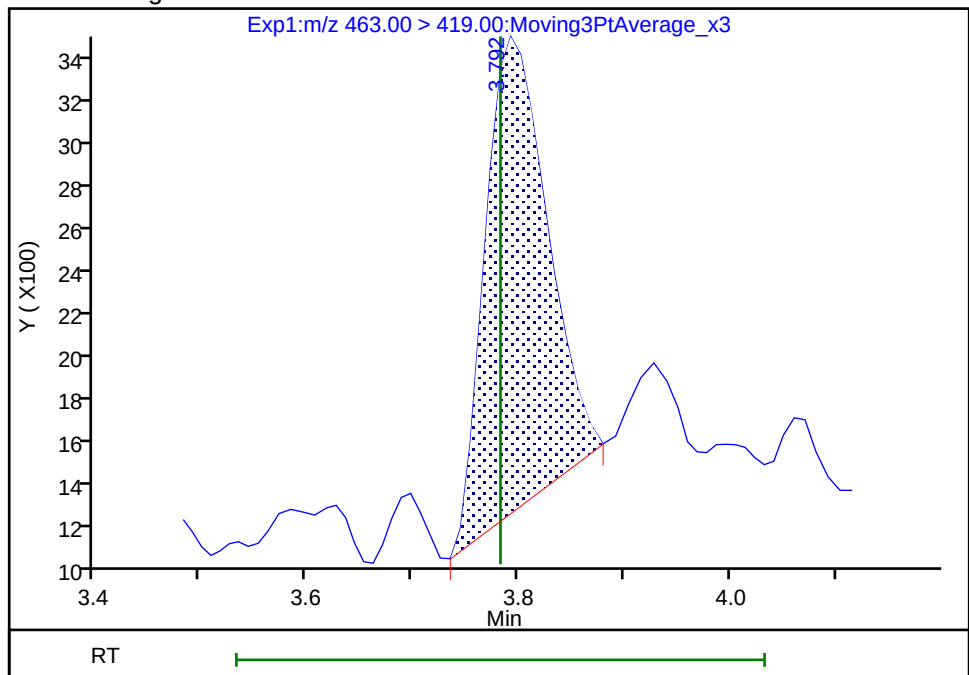
Not Detected
Expected RT: 3.78

Processing Integration Results



RT: 3.79
Area: 8937
Amount: 0.004169
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:44:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

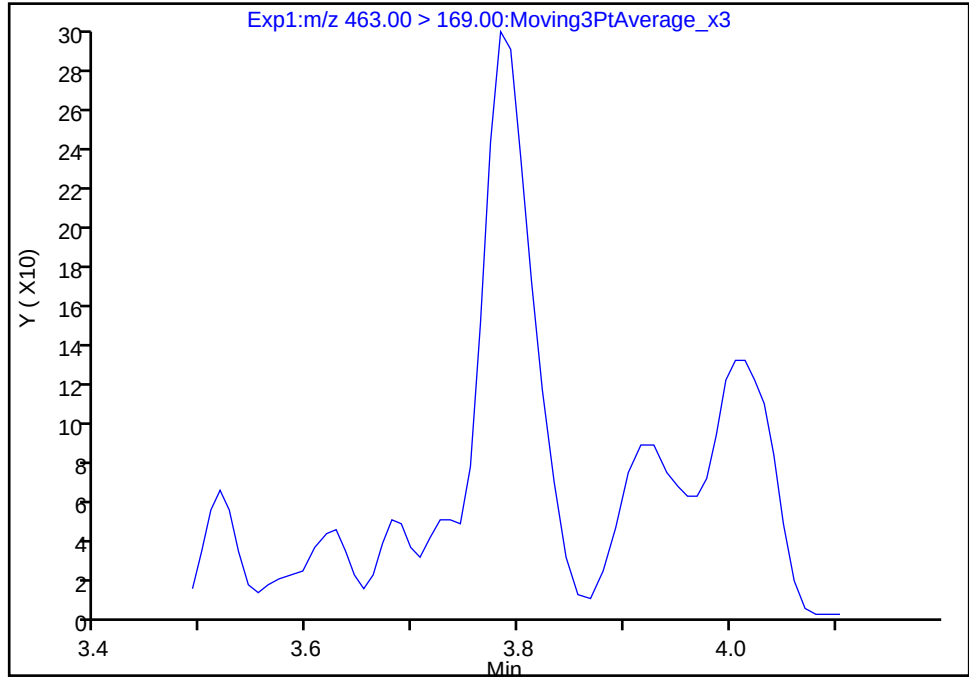
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Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

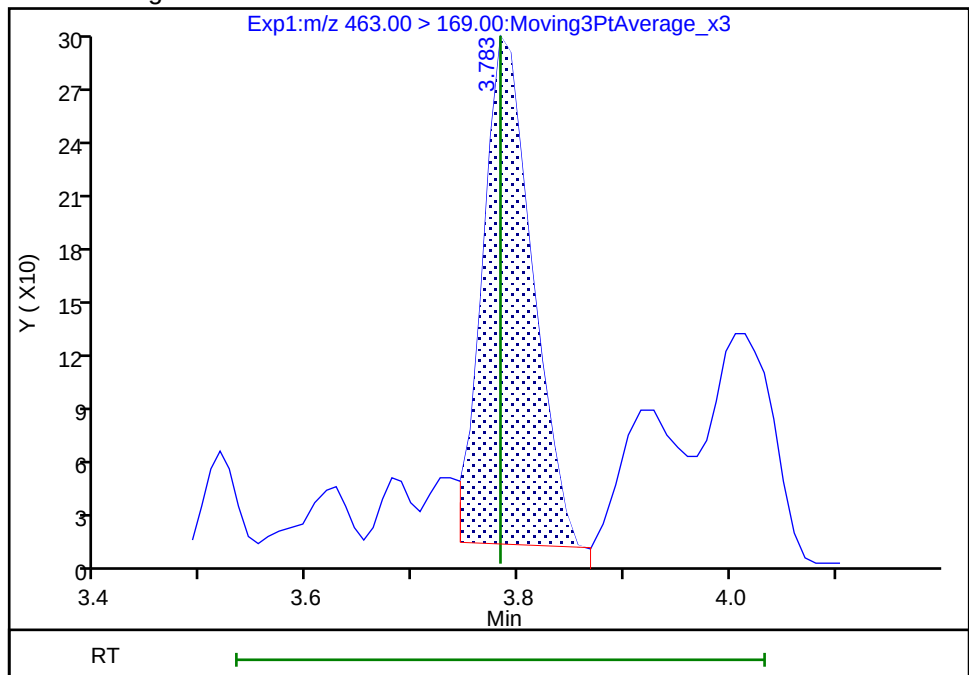
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 929
Amount: 0.004169
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:44:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

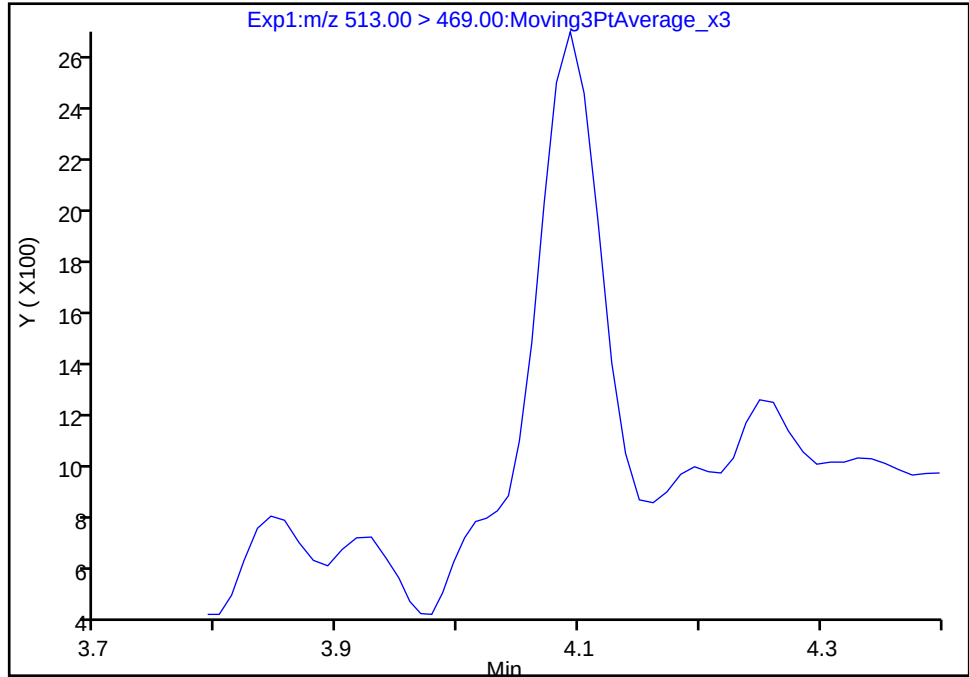
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Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

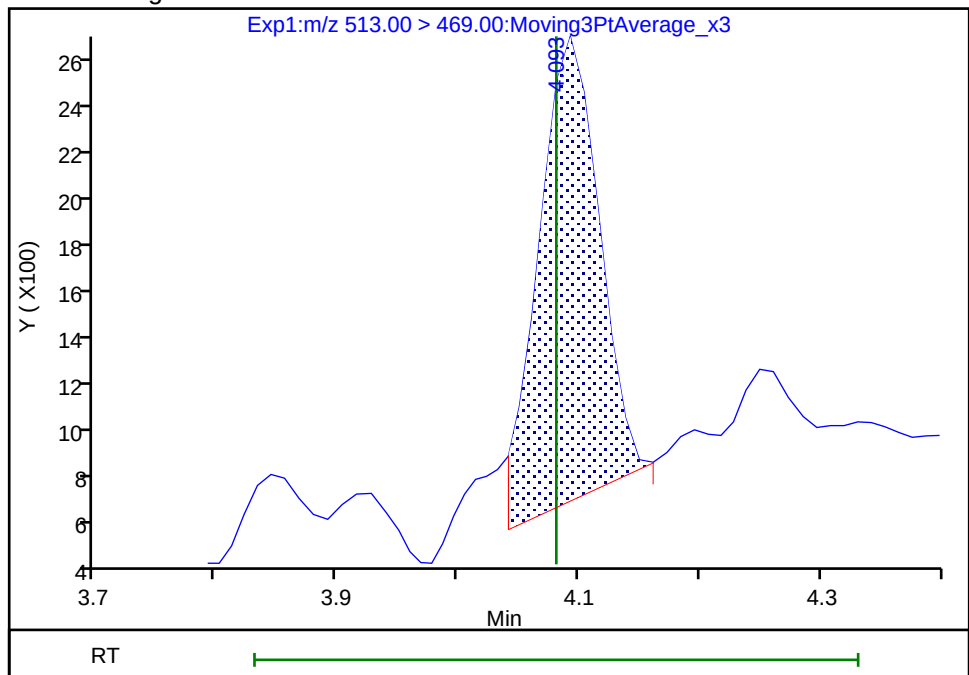
Not Detected
Expected RT: 4.08

Processing Integration Results



RT: 4.09
Area: 6909
Amount: 0.002945
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:44:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

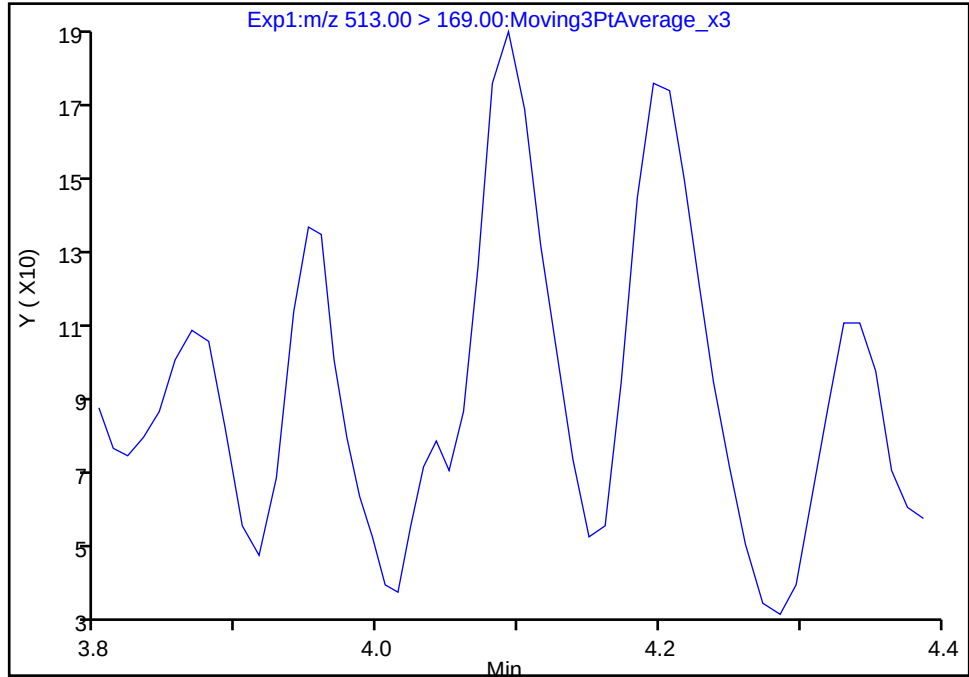
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

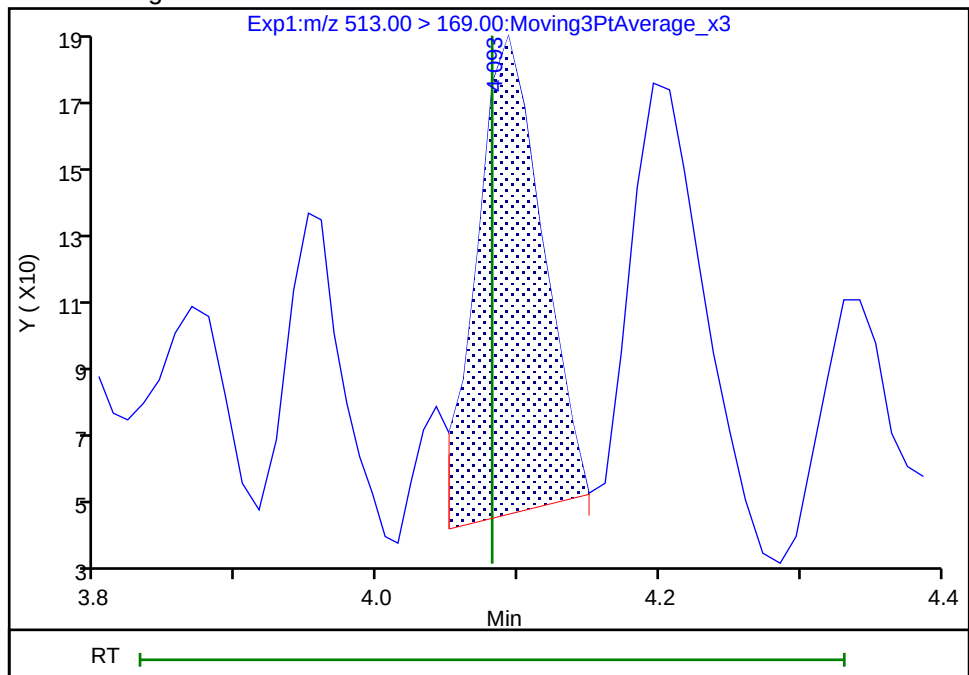
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 460
Amount: 0.002945
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:44:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

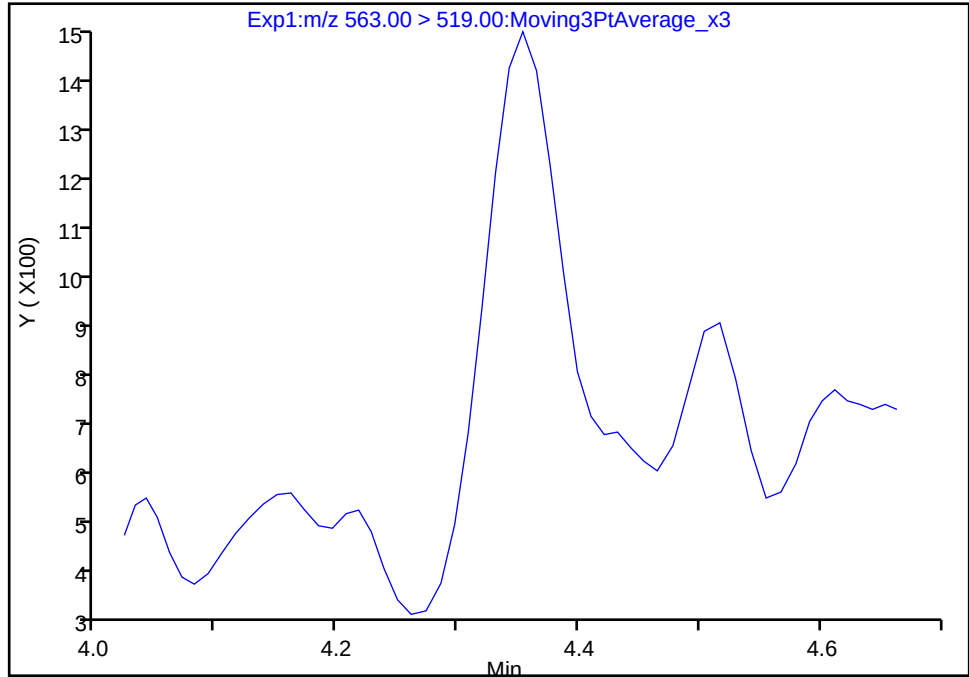
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

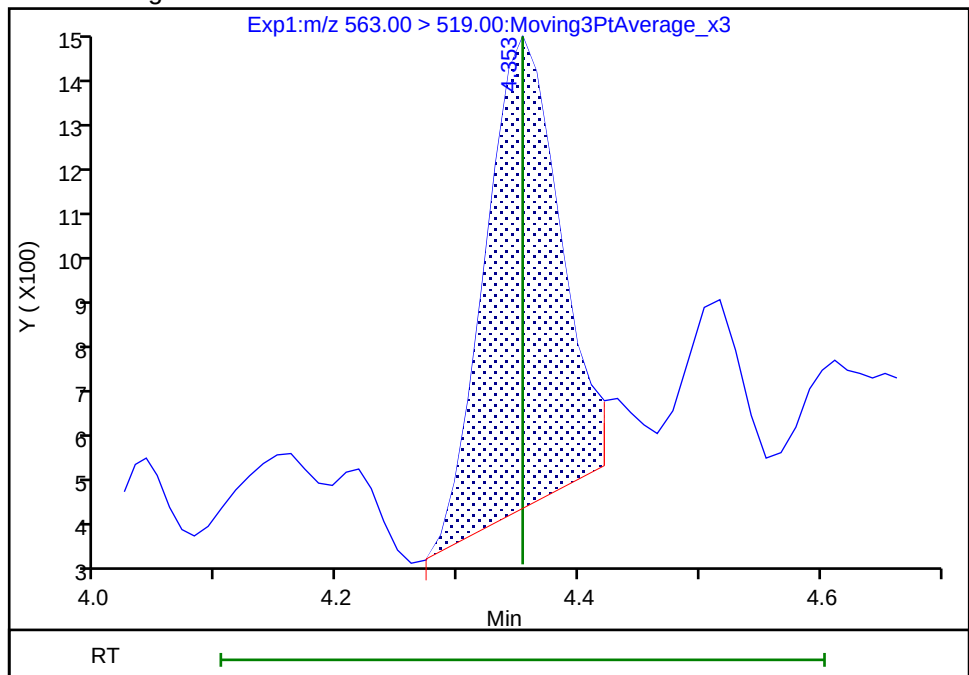
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:45:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

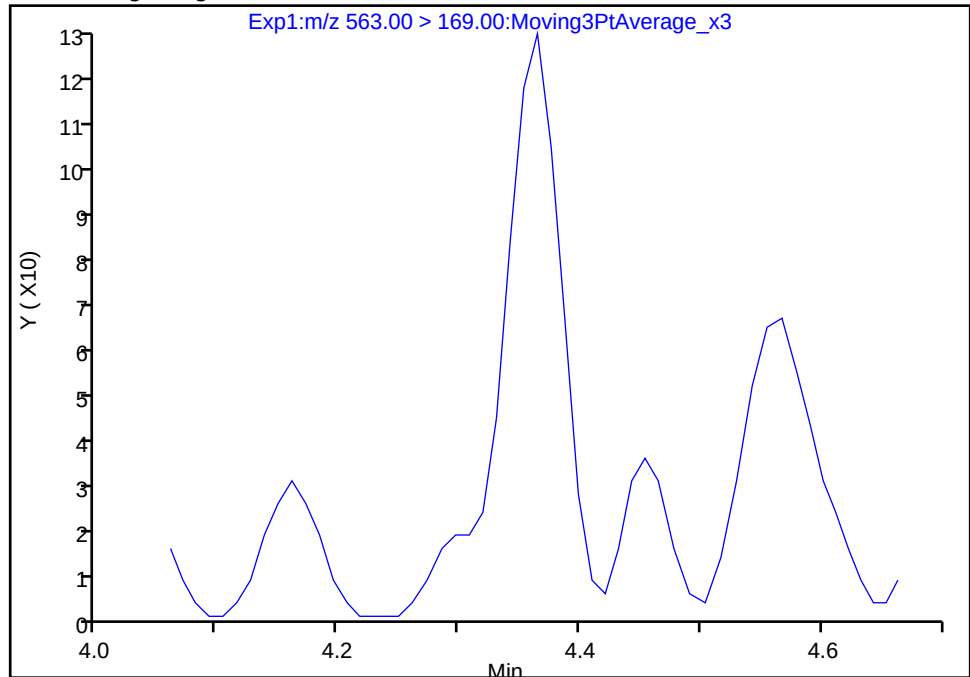
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

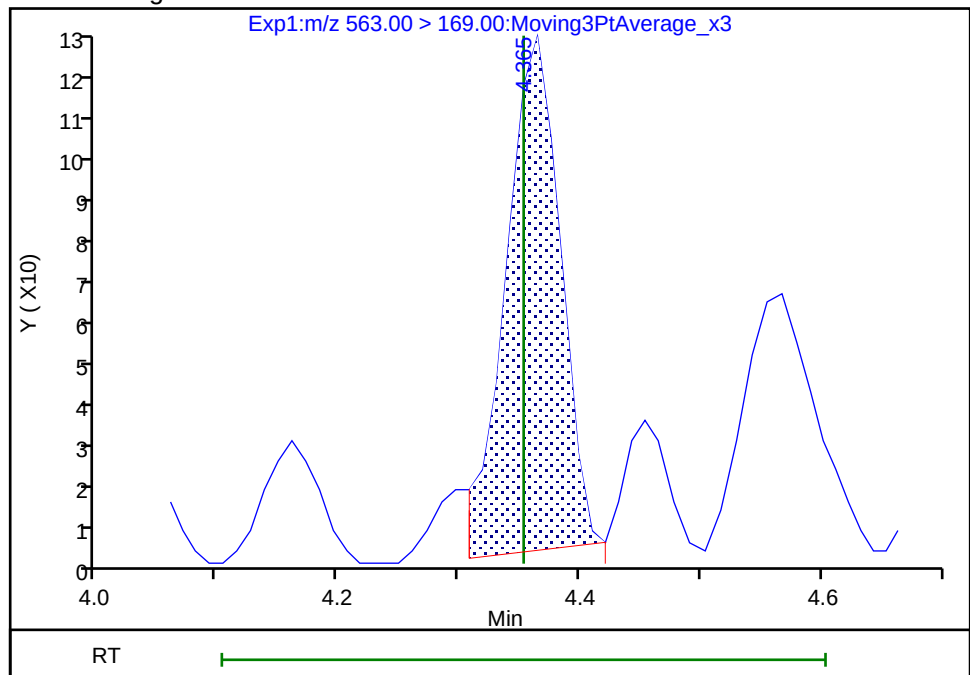
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 394
Amount: 0.002206
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:45:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

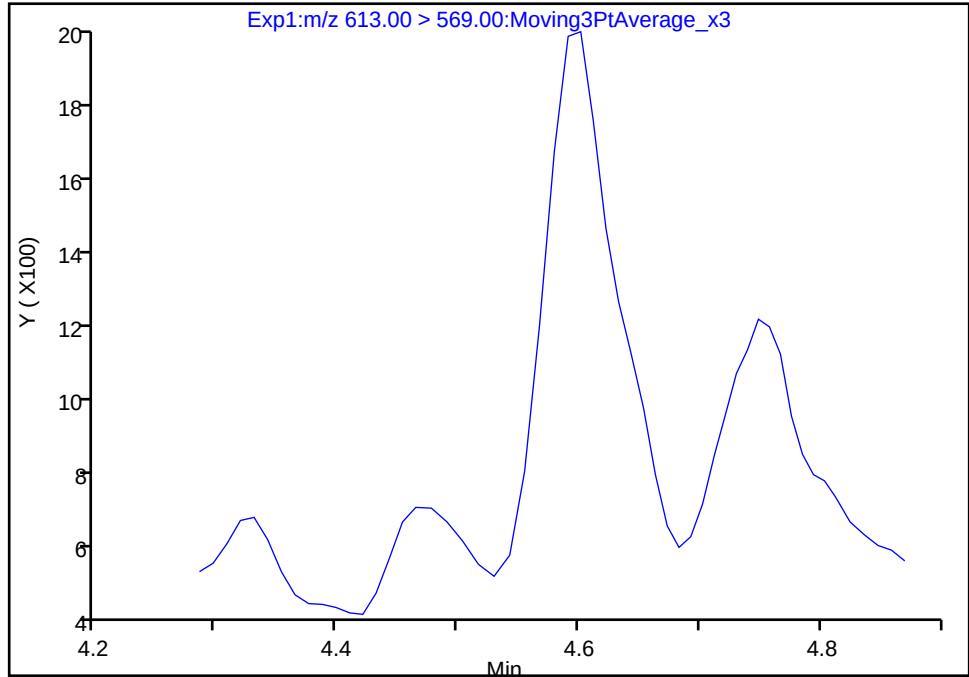
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

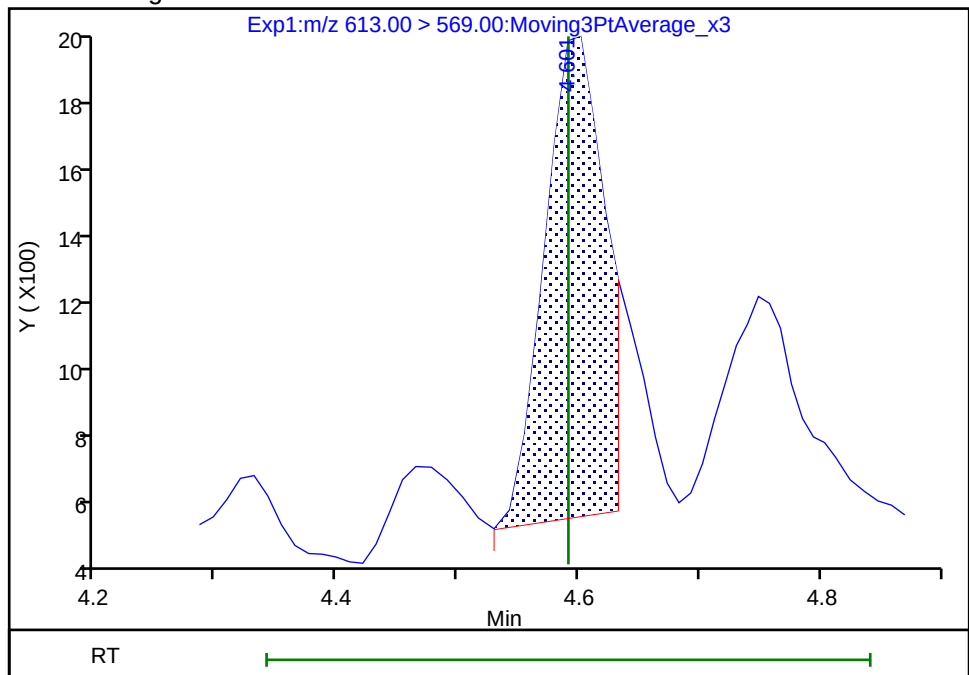
Signal: 1

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 4692
Amount: 0.002246
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:45:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

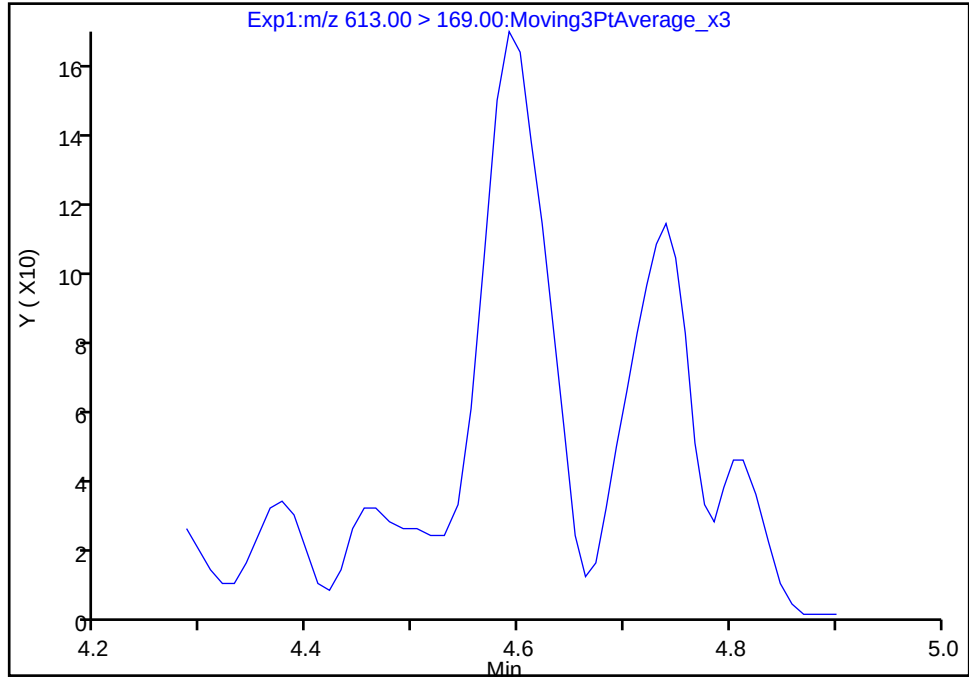
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

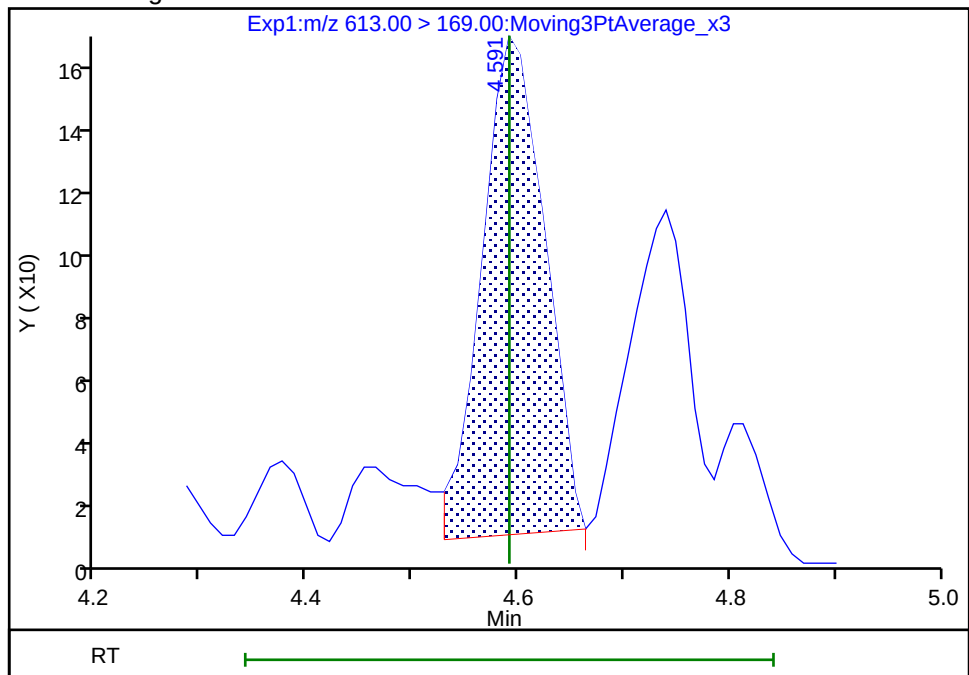
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 659
Amount: 0.002246
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:45:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

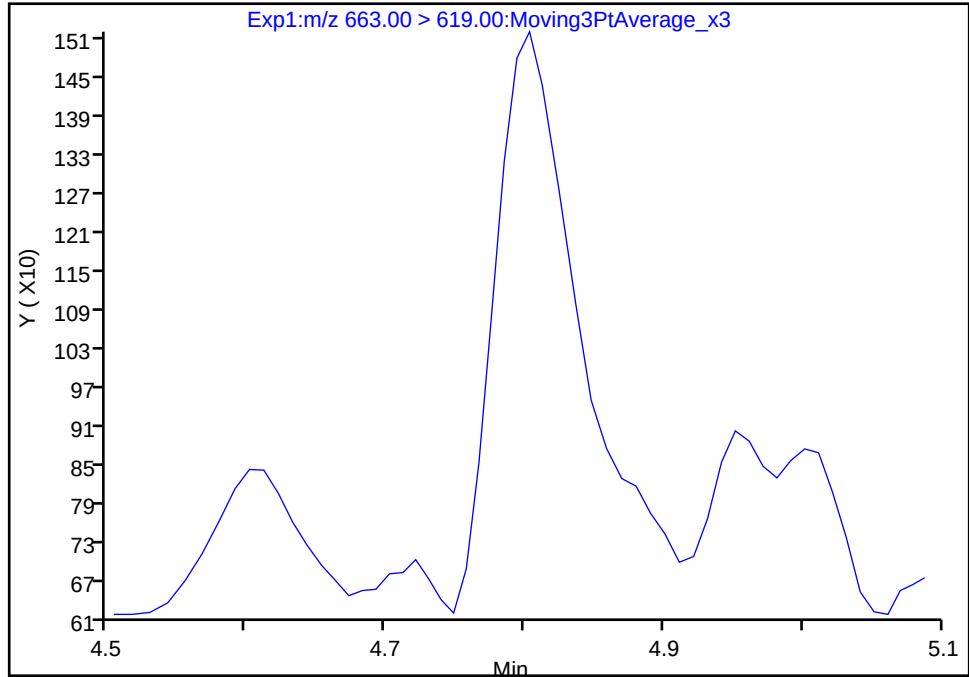
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

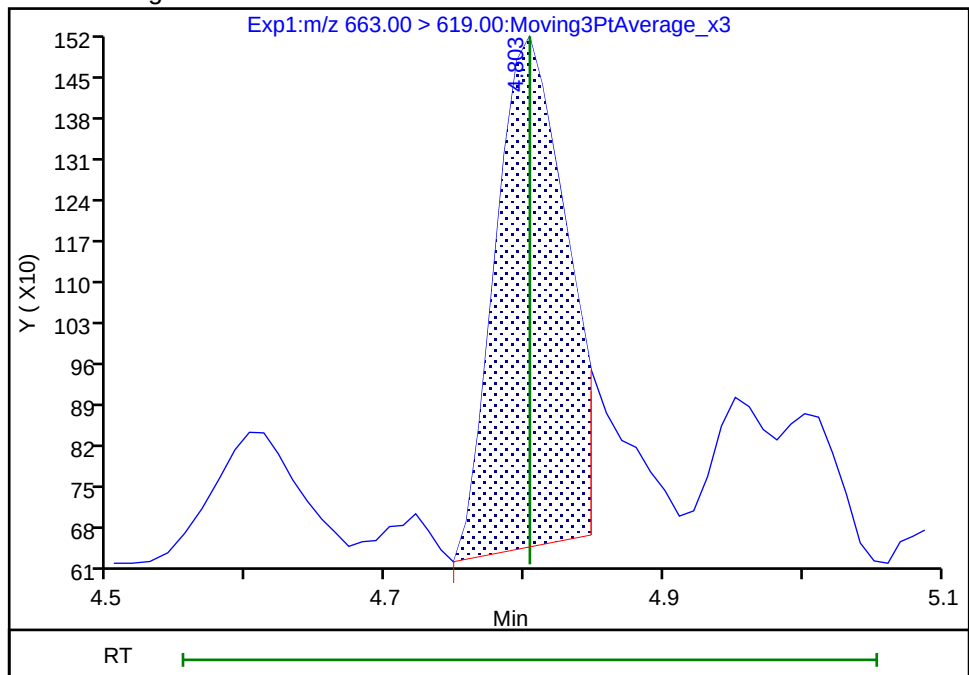
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.80
Area: 3068
Amount: 0.001536
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:46:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

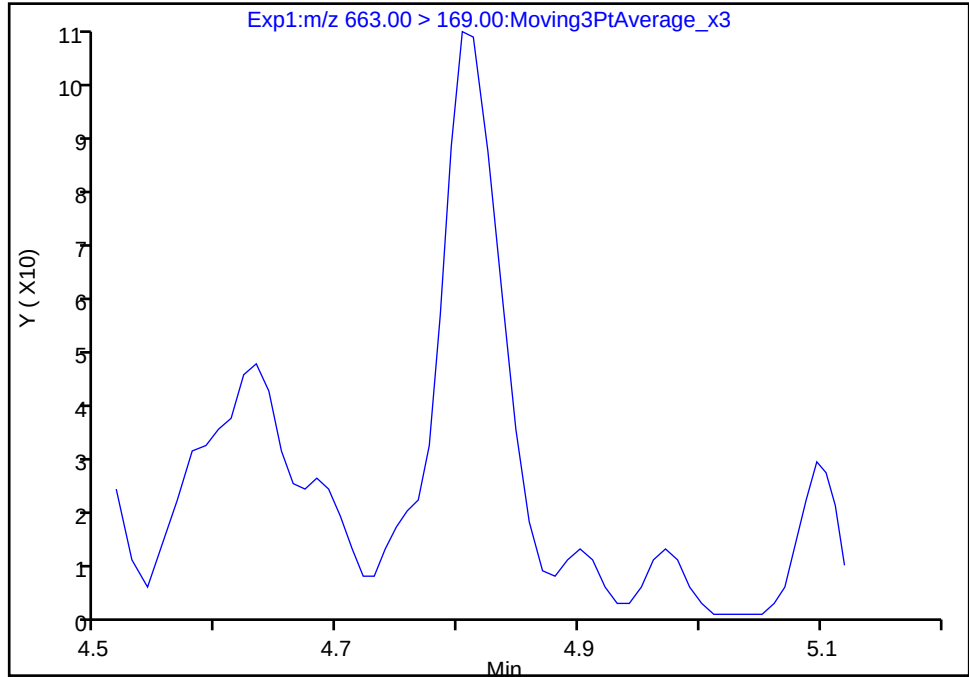
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

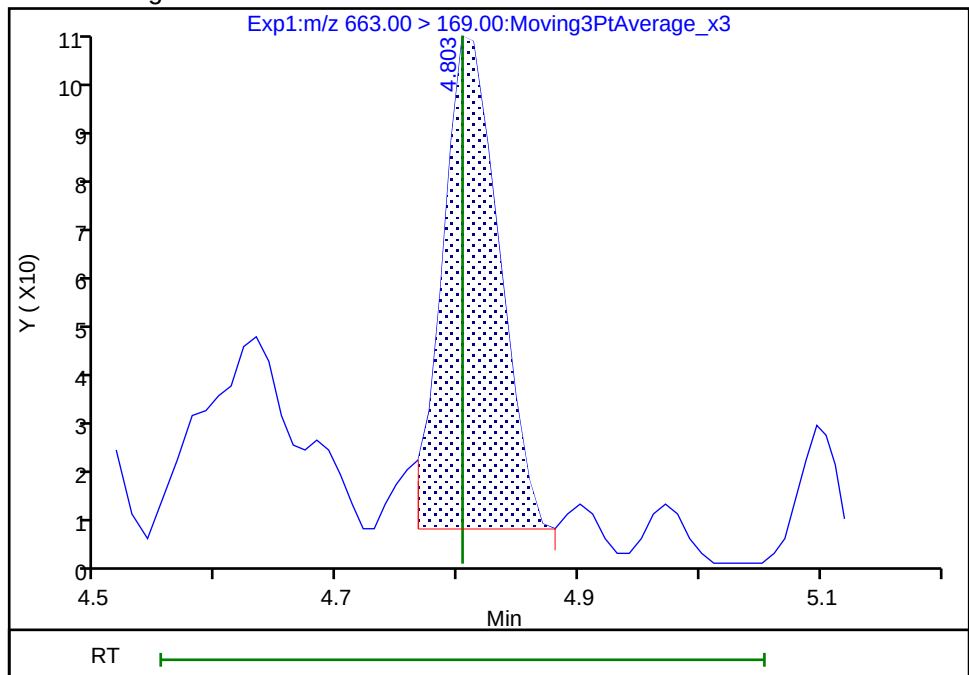
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.80
Area: 321
Amount: 0.001536
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:46:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

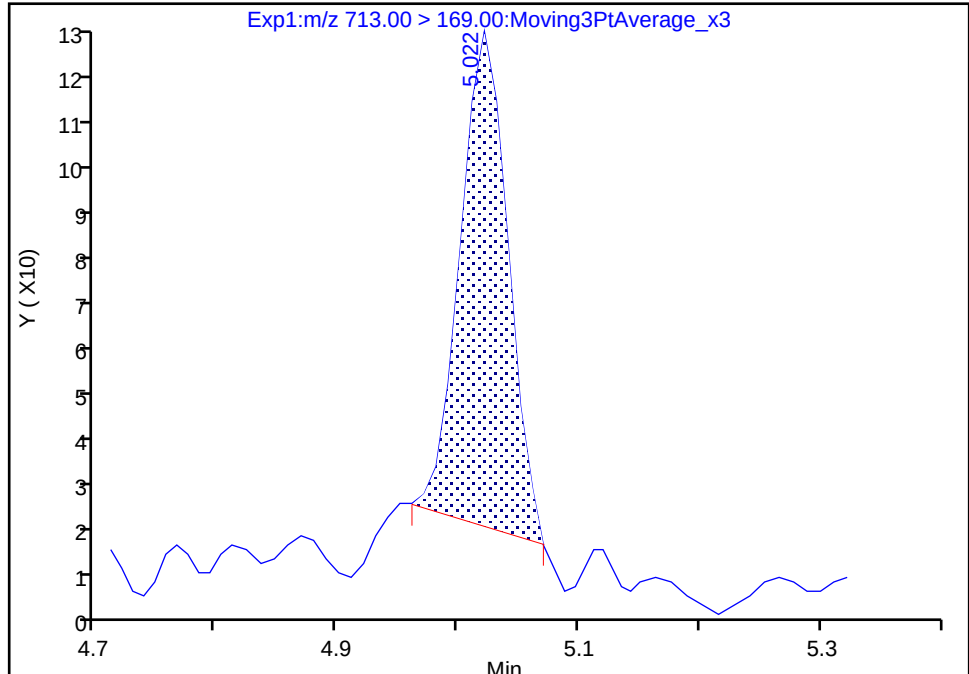
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

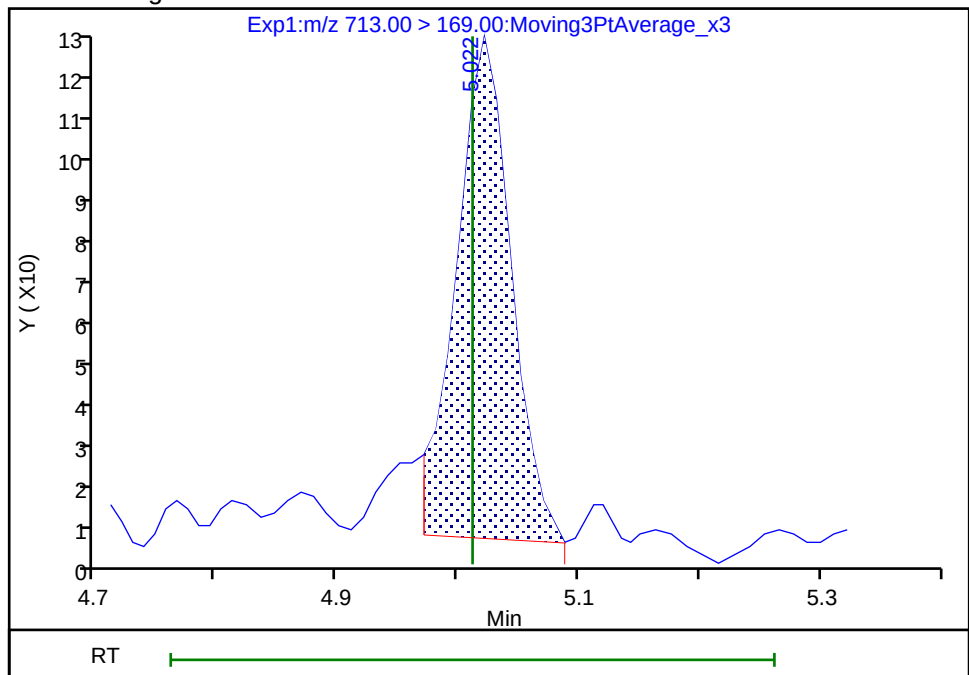
RT: 5.02
Area: 294
Amount: 0.001308
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 375
Amount: 0.001669
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:46:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

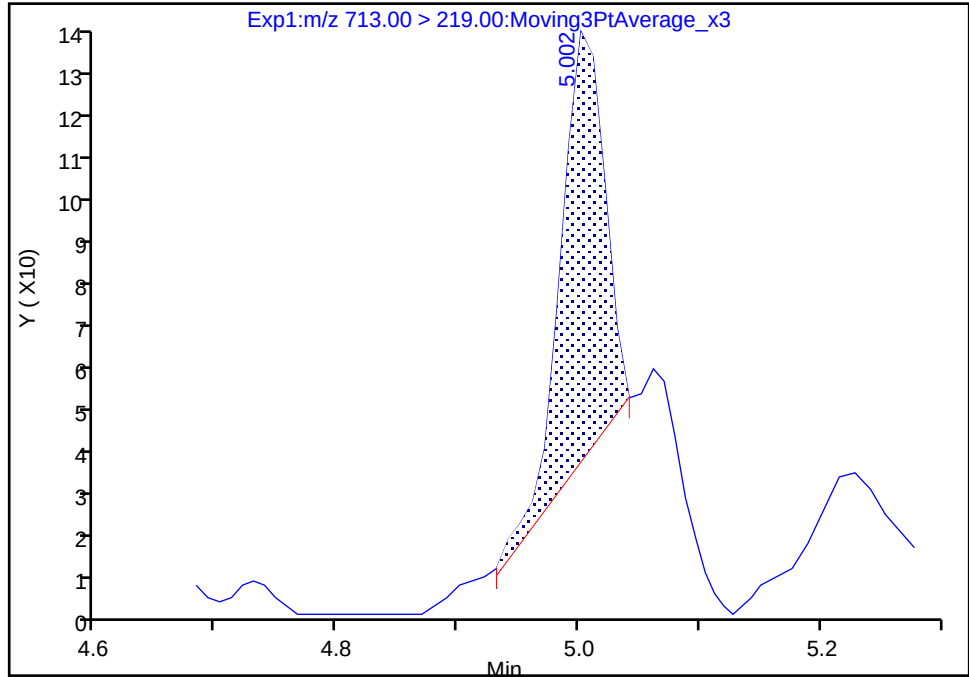
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

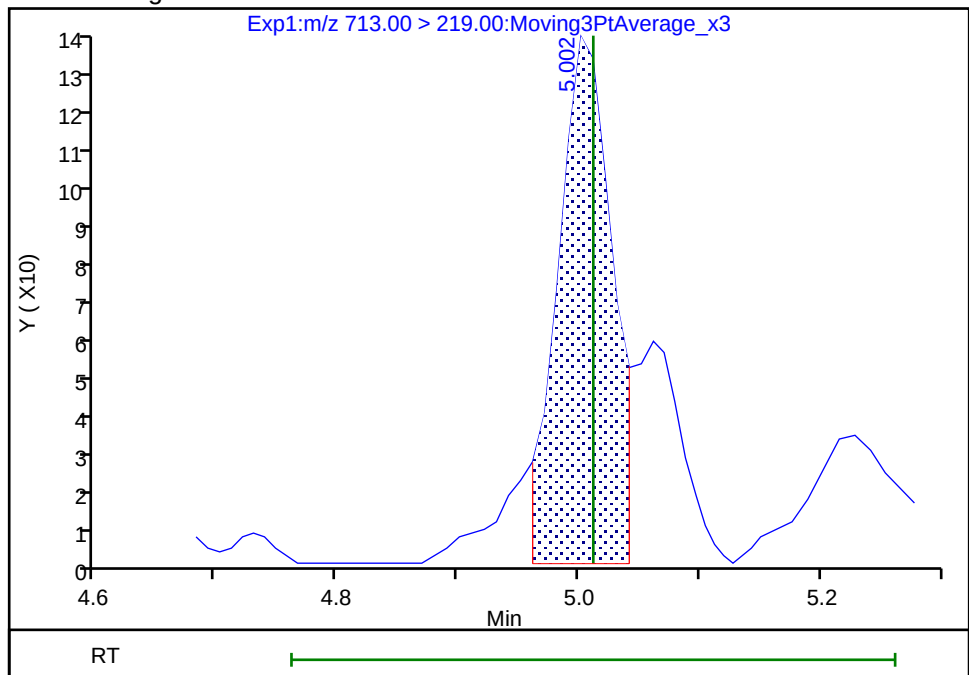
RT: 5.00
Area: 261
Amount: 0.001308
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 426
Amount: 0.001669
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:46:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

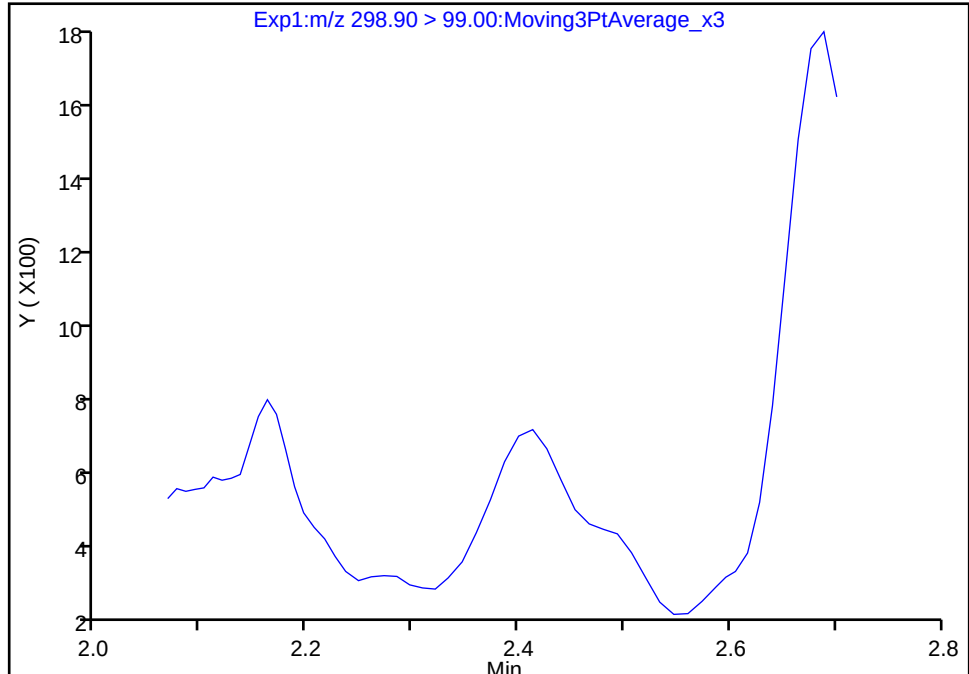
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

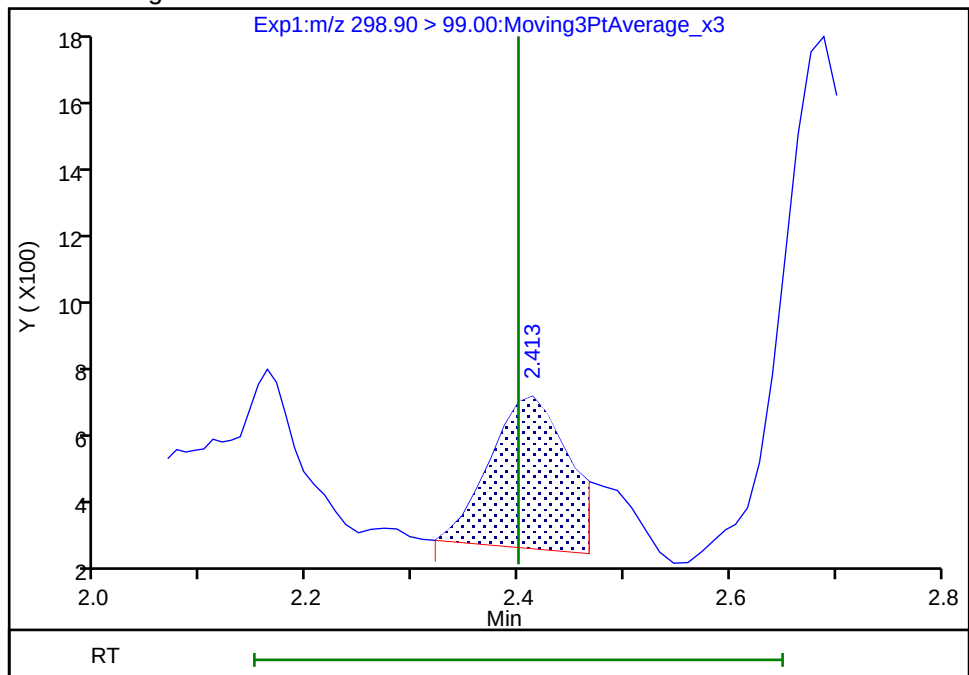
Signal: 2

Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

Reviewer: nampitakw, 19-Dec-2022 09:42:03
Audit Action: Manually IntegratedAudit Reason: Incomplete Integration
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Eurofins Burlington

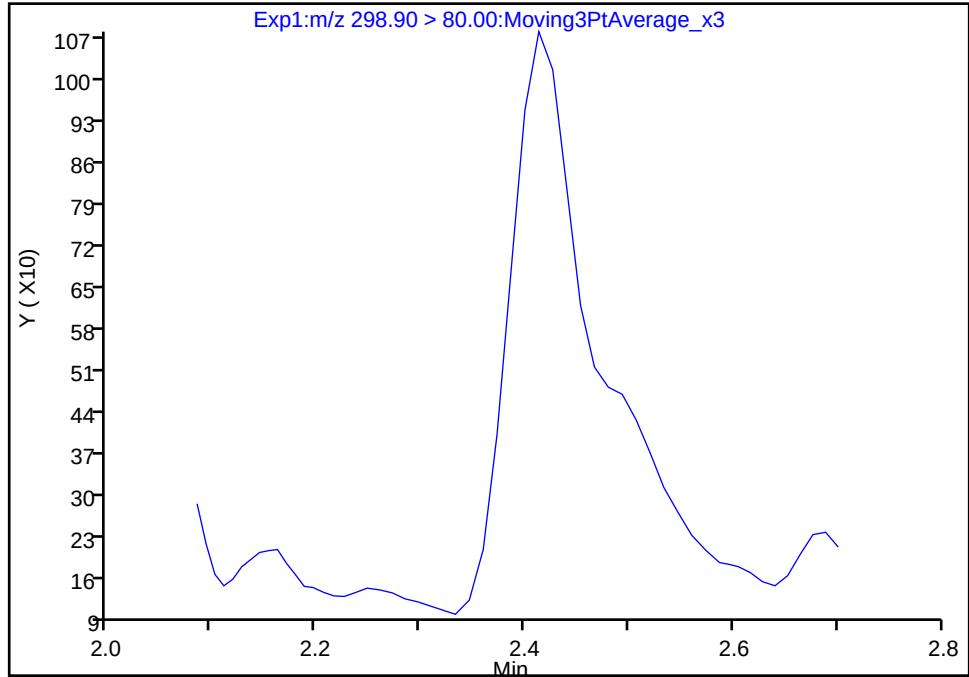
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

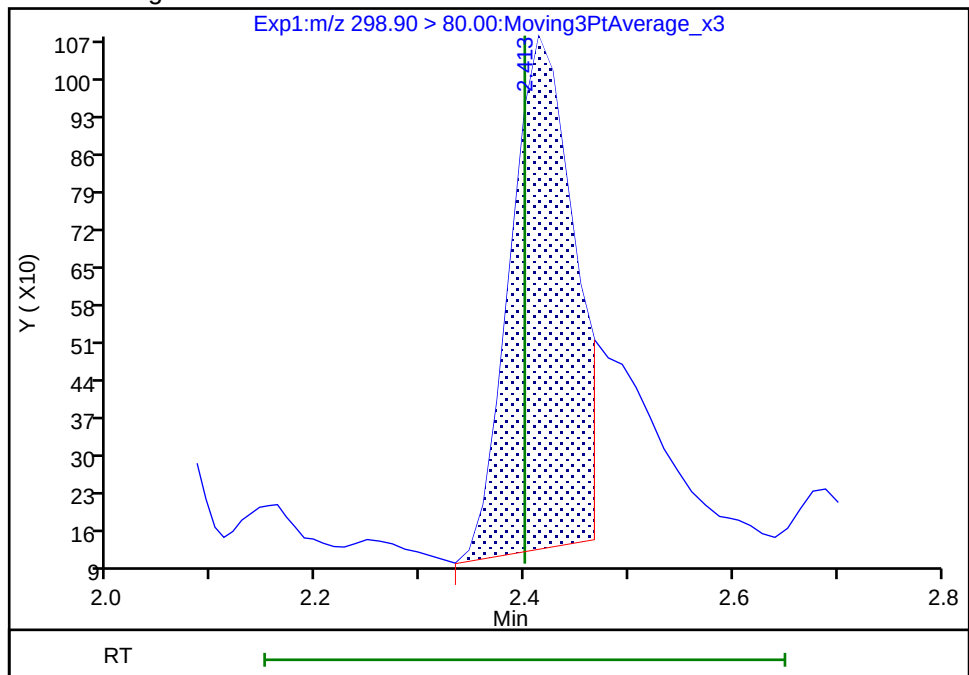
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 3986
Amount: 0.002023
Amount Units: ng/ml



Reviewer: nampitkw, 19-Dec-2022 09:42:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

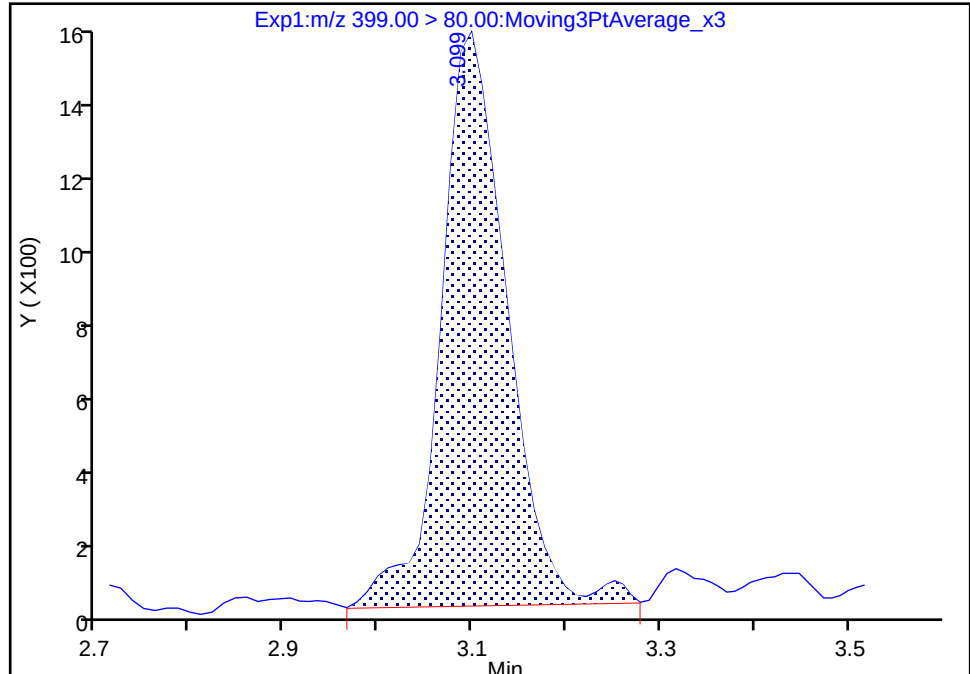
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

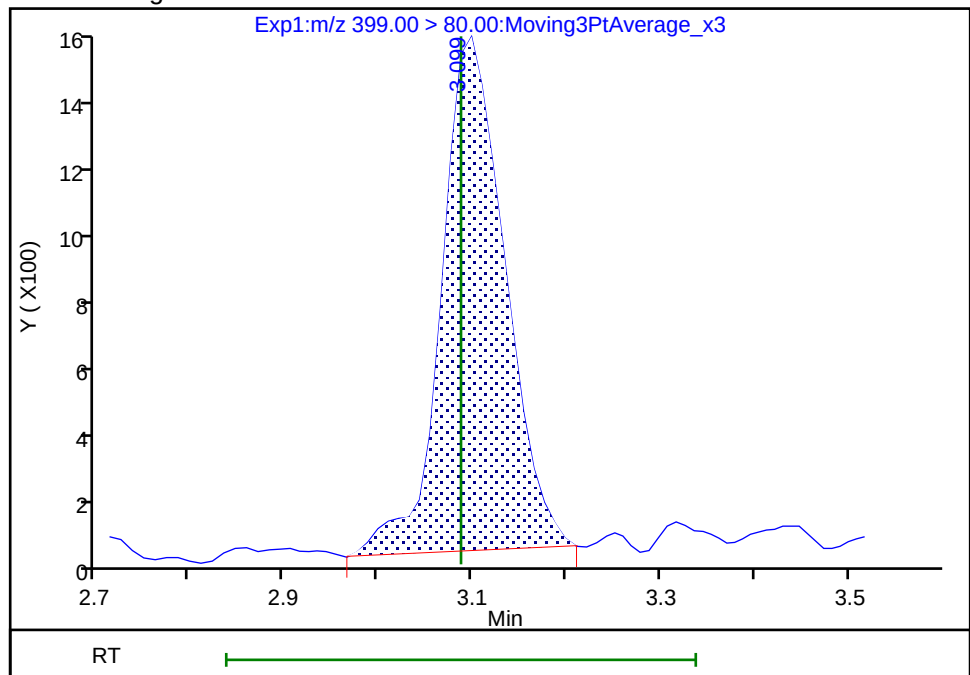
RT: 3.10
Area: 7149
Amount: 0.005105
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 6874
Amount: 0.004909
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:42:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

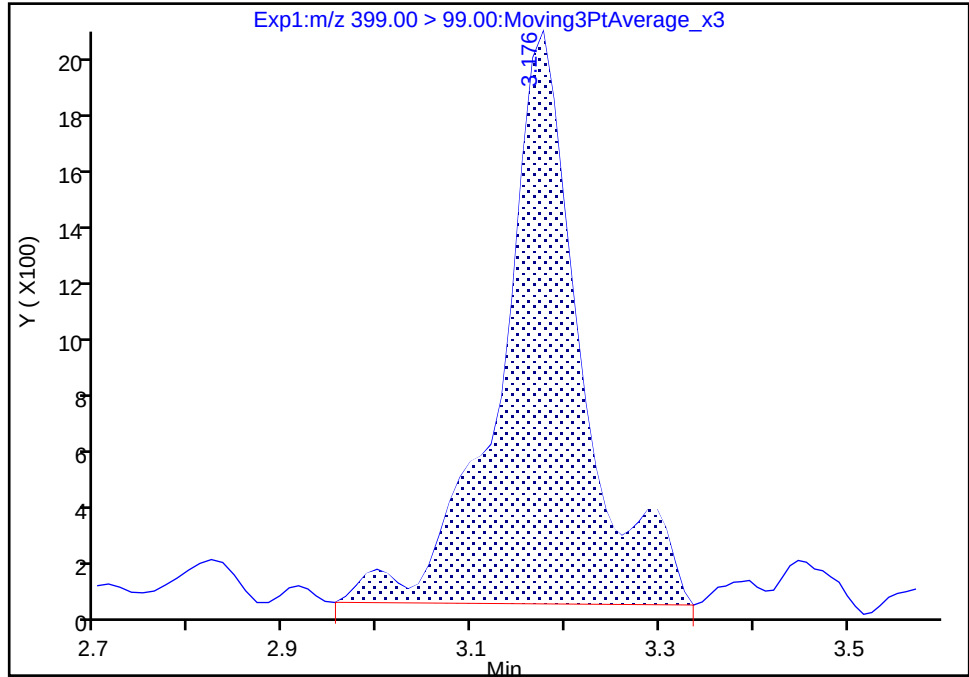
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

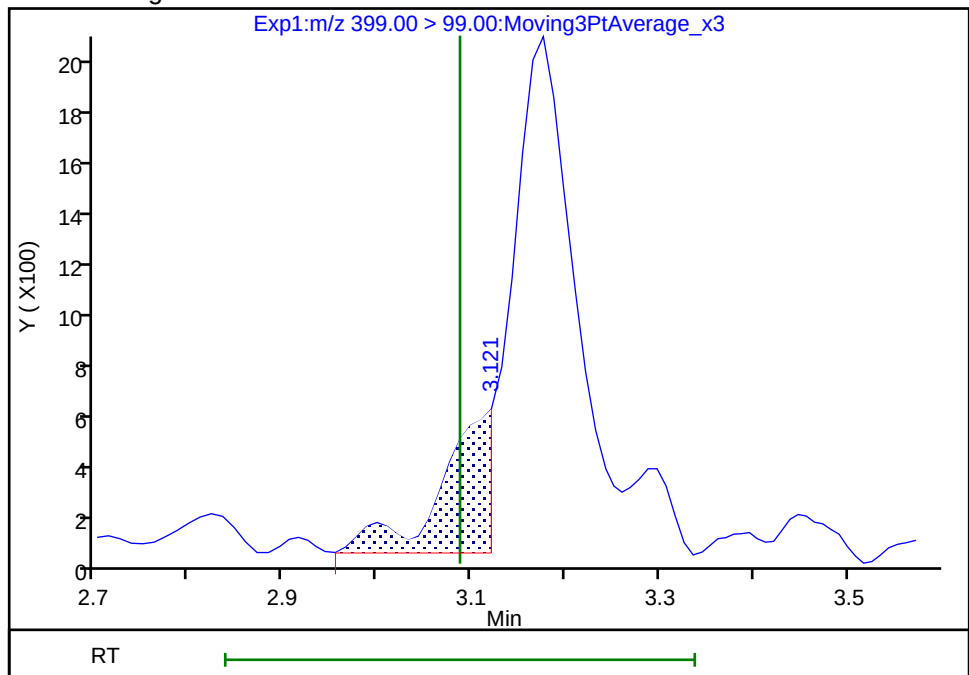
RT: 3.18
Area: 11704
Amount: 0.005105
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 1961
Amount: 0.004909
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:42:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

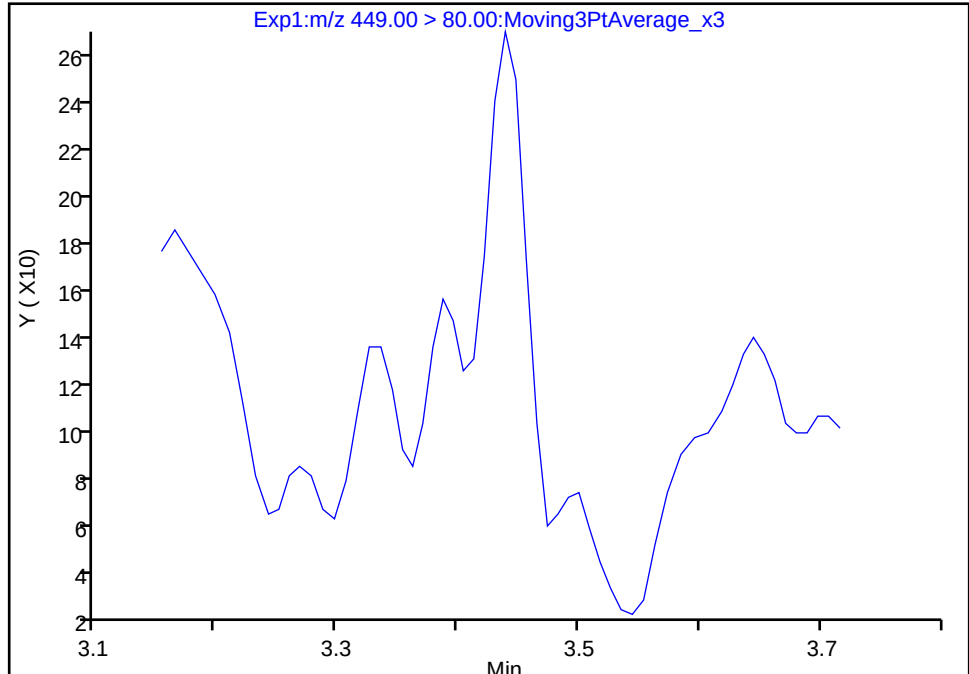
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

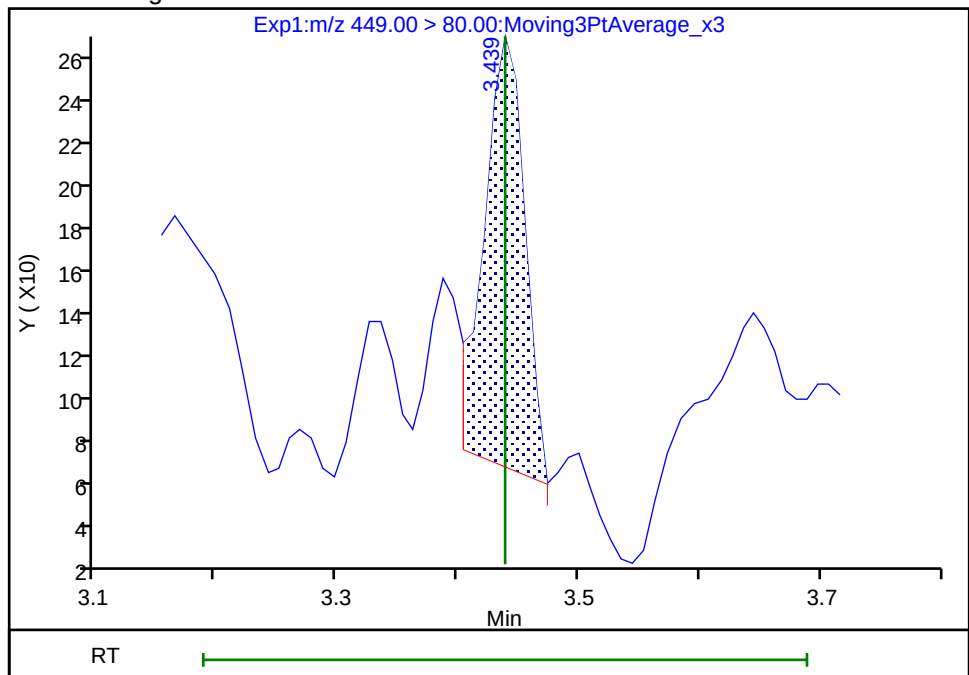
Signal: 1

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.44
Area: 458
Amount: 0.000381
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:42:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

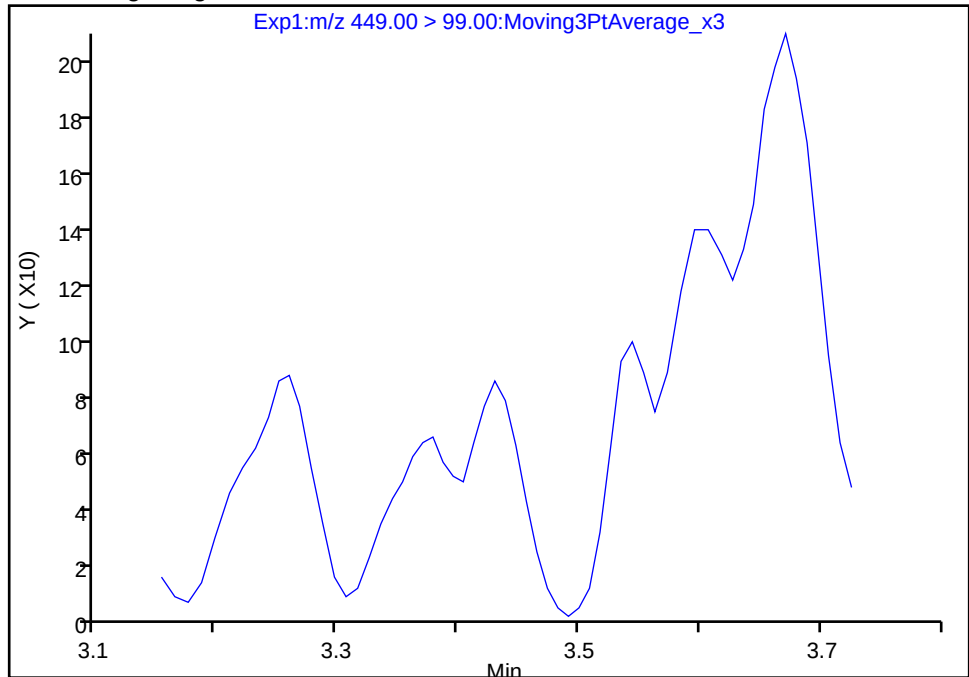
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

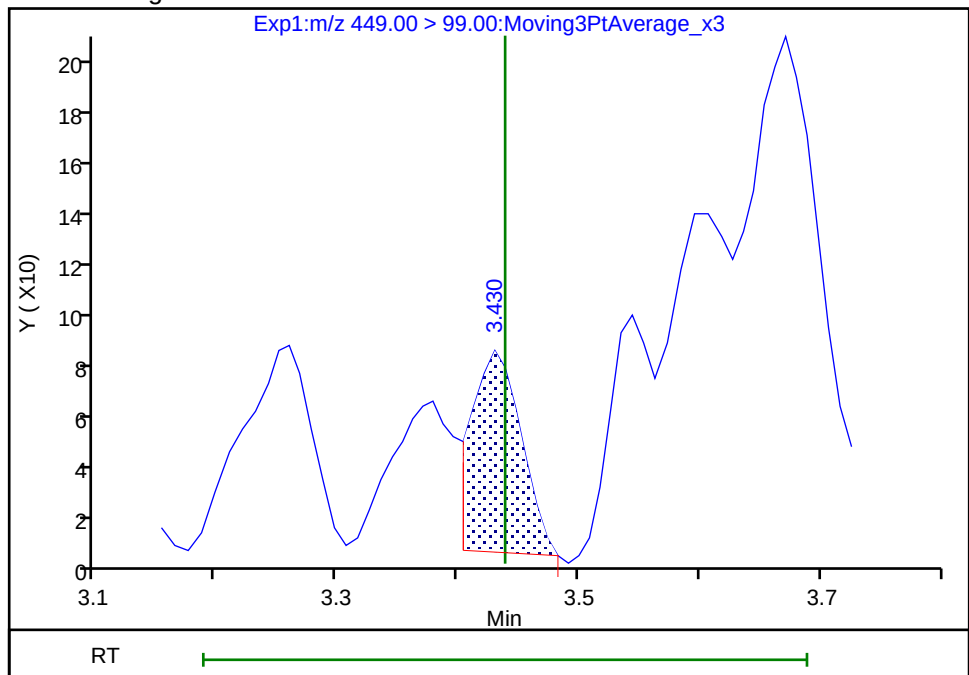
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 220
Amount: 0.000381
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:42:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

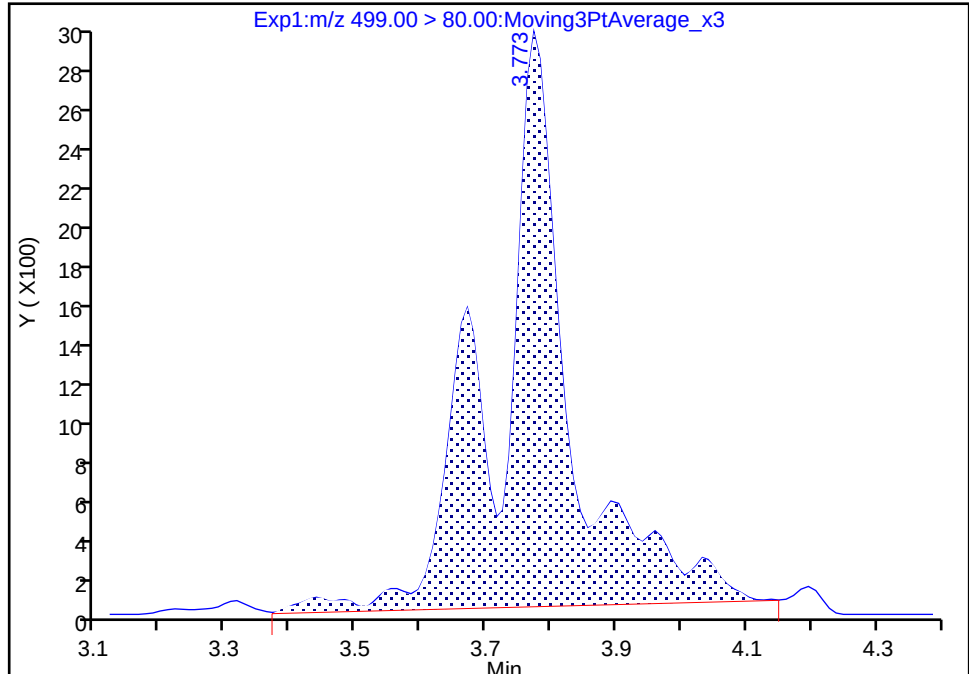
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection 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

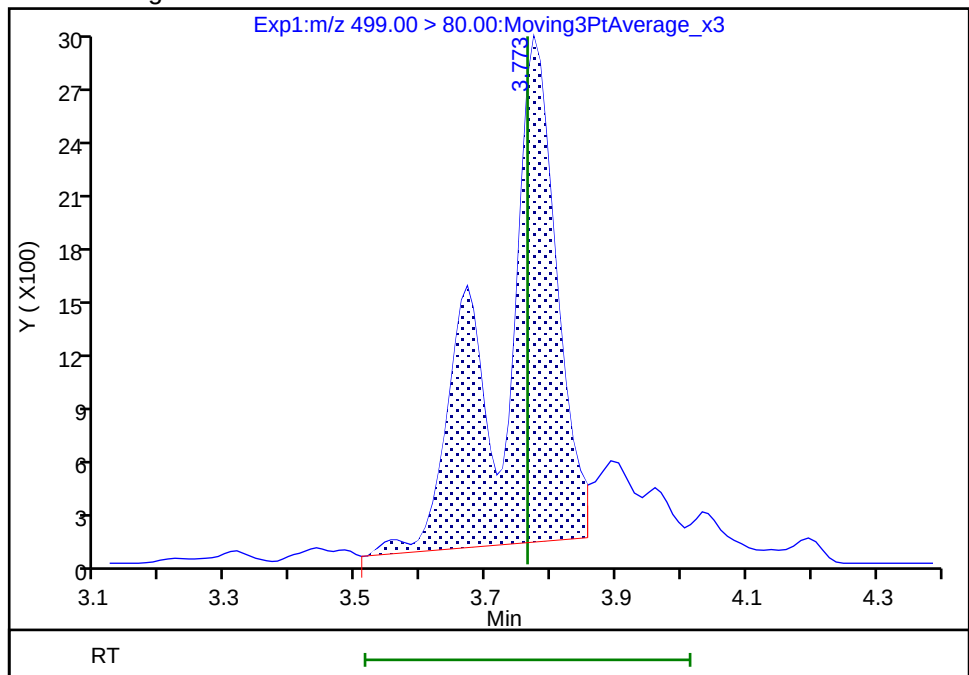
RT: 3.77
Area: 23179
Amount: 0.022173
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 17546
Amount: 0.016784
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:43:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

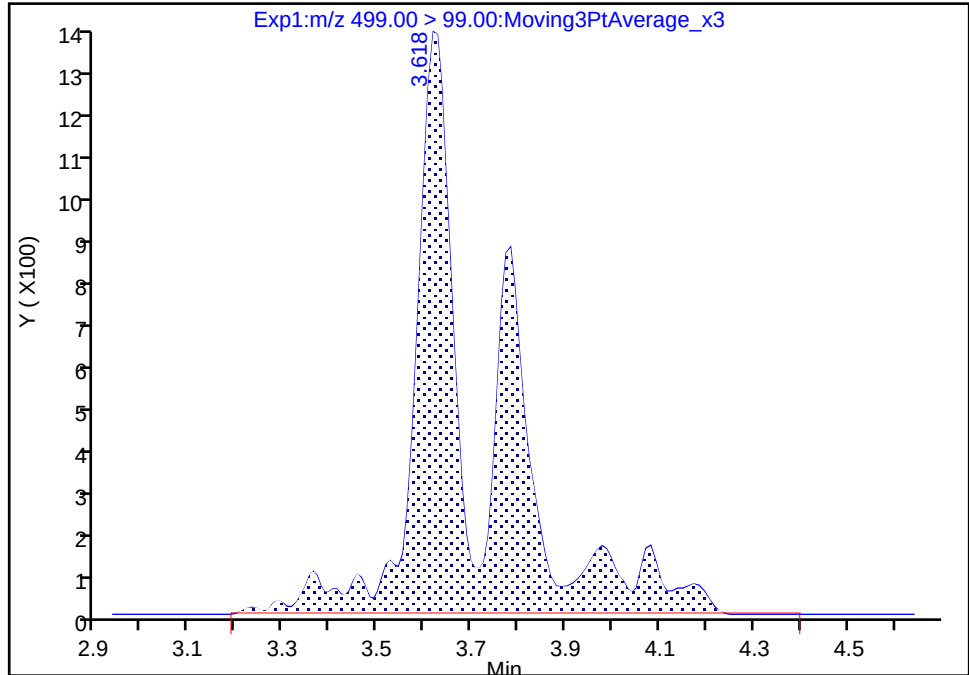
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul 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

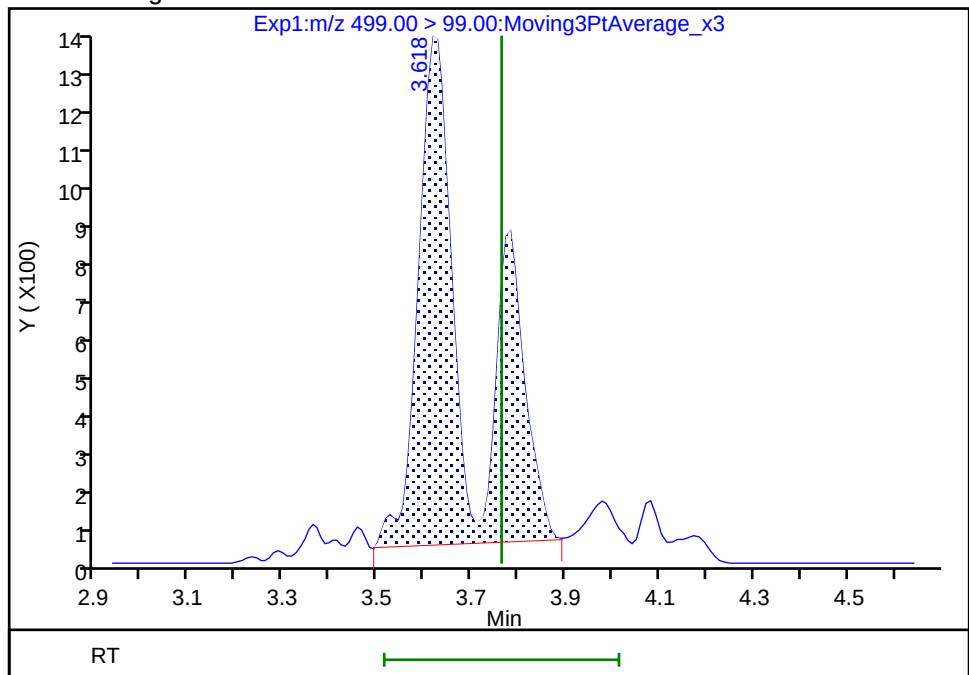
RT: 3.62
Area: 13821
Amount: 0.022173
Amount Units: ng/ml

Processing Integration Results



RT: 3.62
Area: 9989
Amount: 0.016784
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 12:48:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

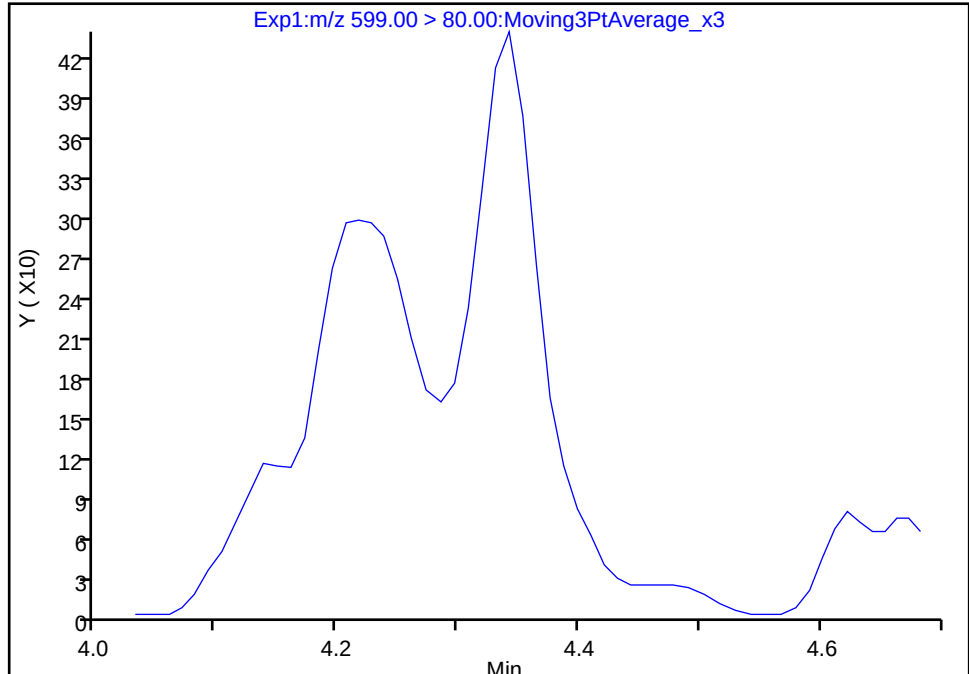
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

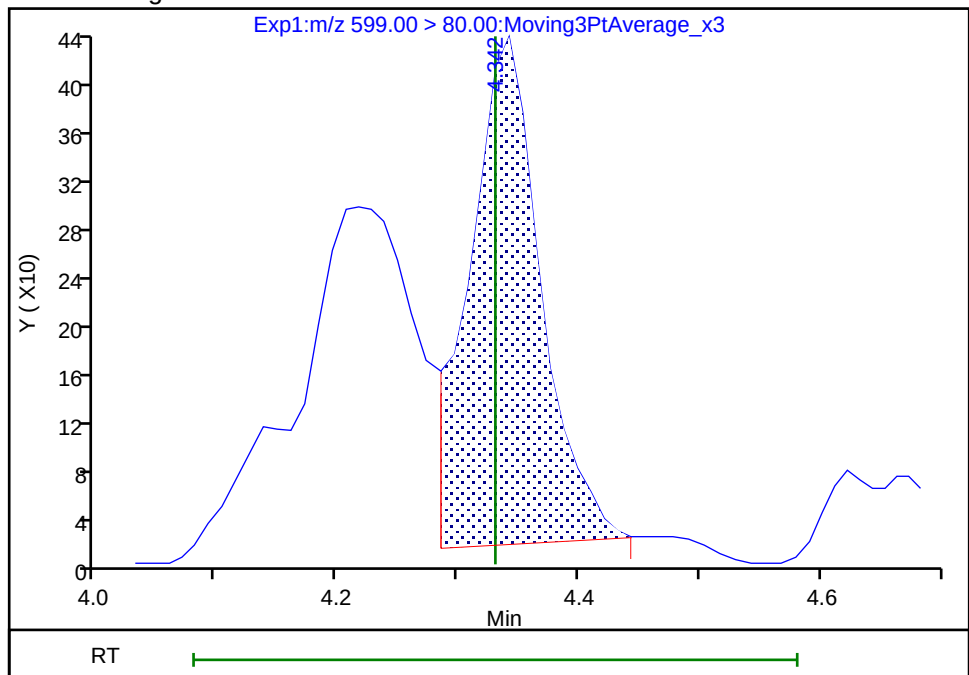
Signal: 1

Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:44:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

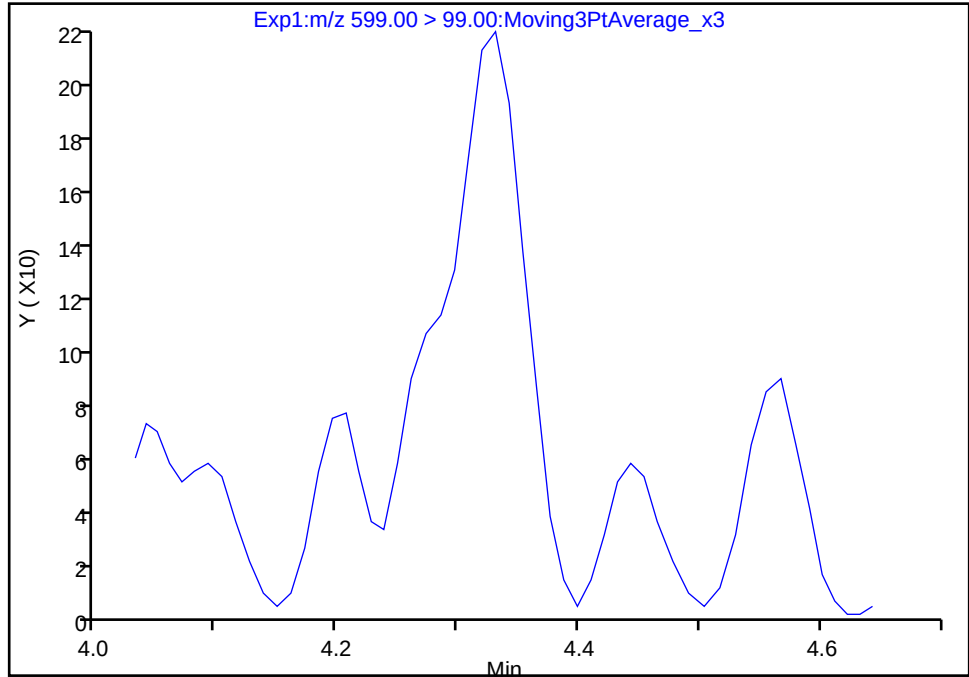
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

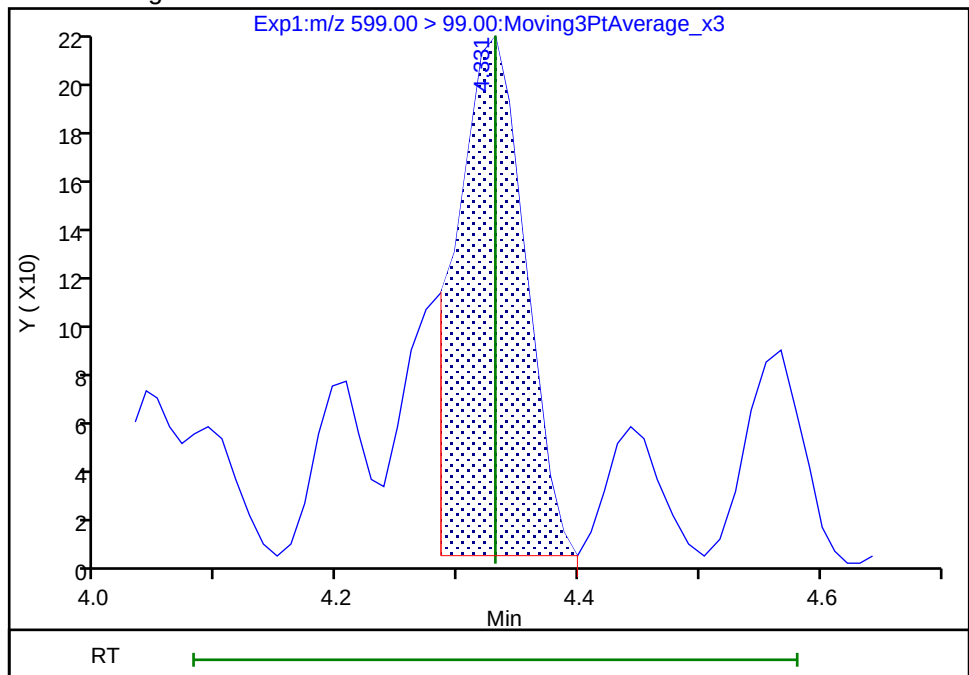
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 834
Amount: 0.002742
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:45:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

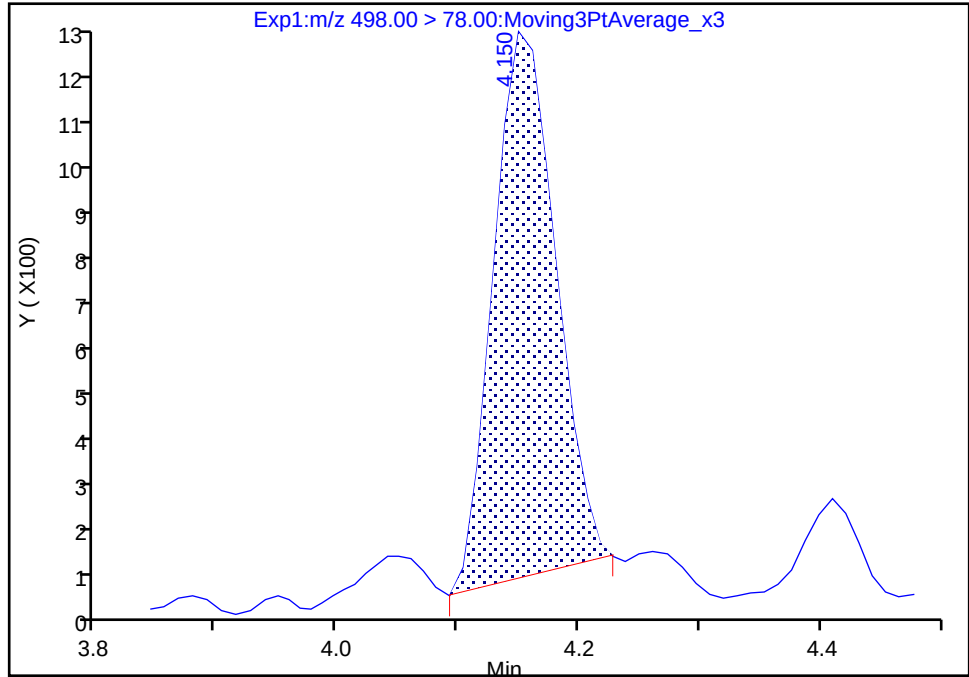
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

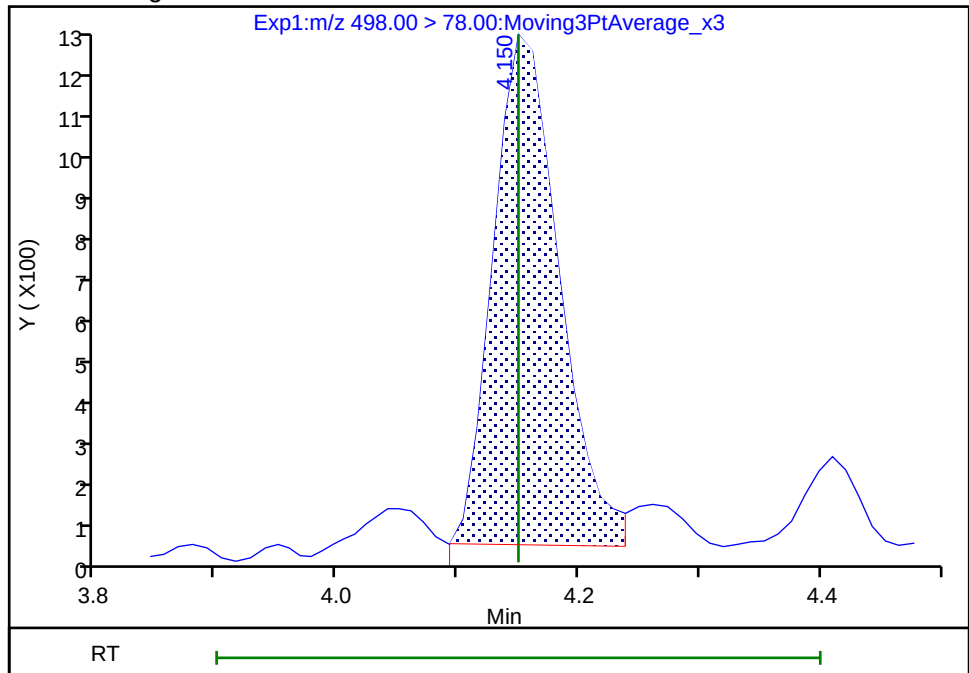
RT: 4.15
Area: 4108
Amount: 0.002659
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 4507
Amount: 0.002918
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:44:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

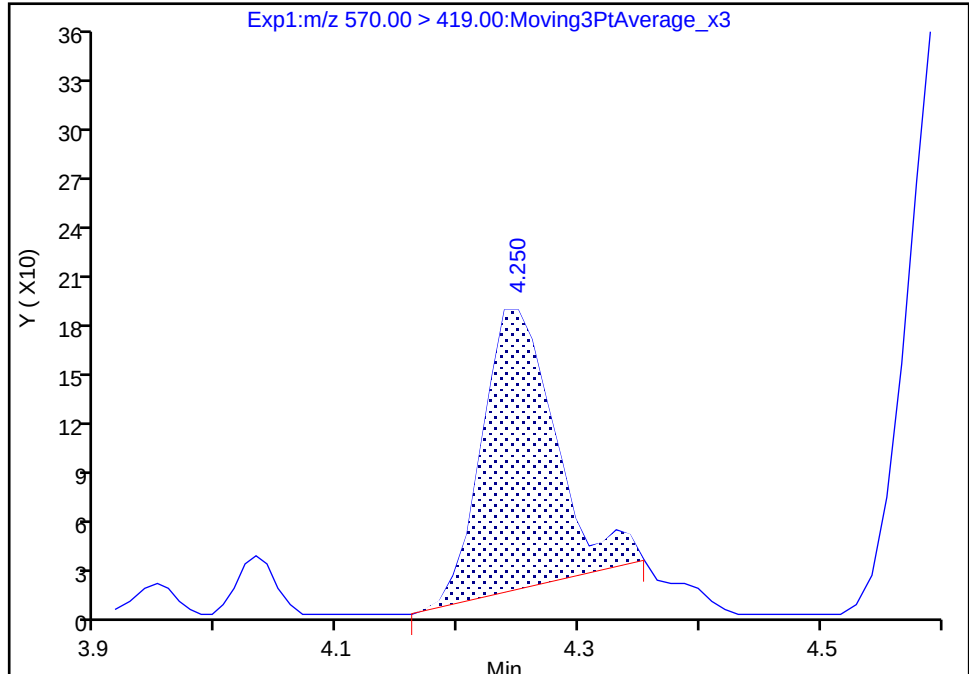
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul 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

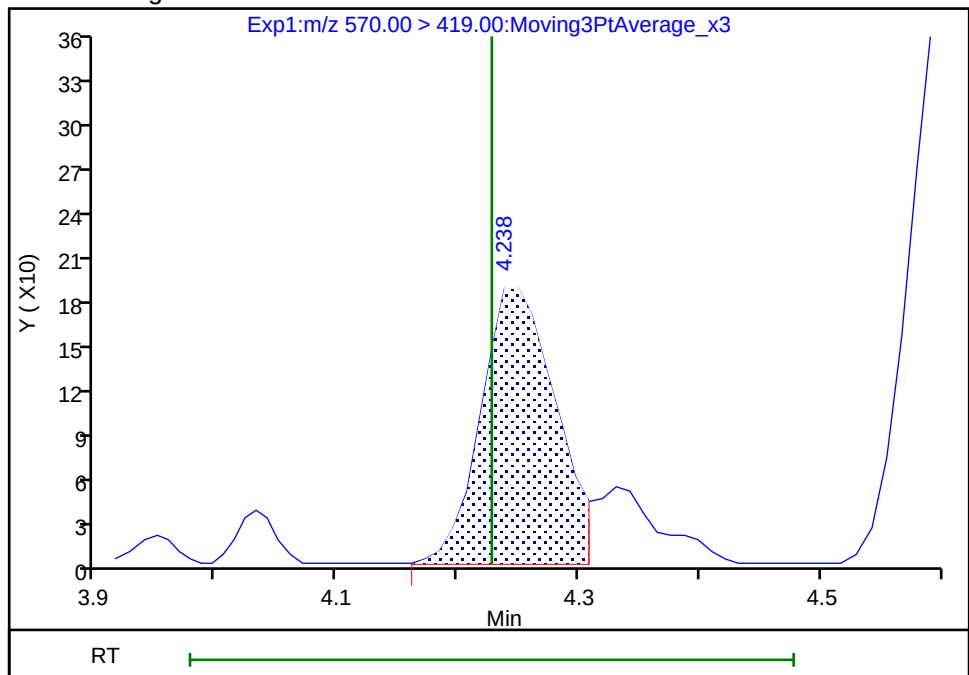
RT: 4.25
Area: 724
Amount: -0.009653
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 795
Amount: -0.009459
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:44:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

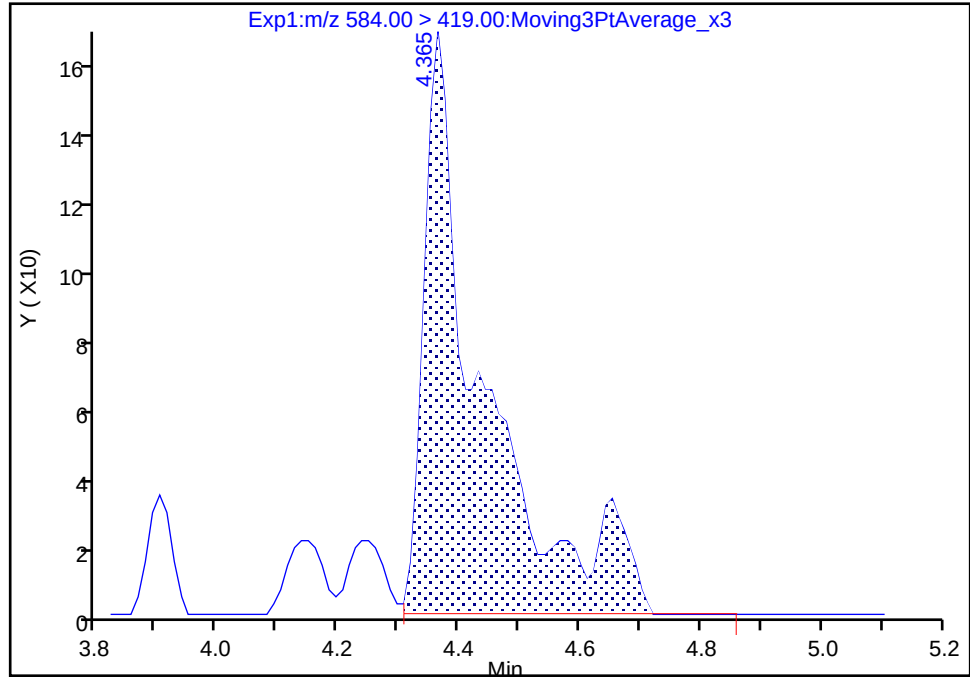
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul 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

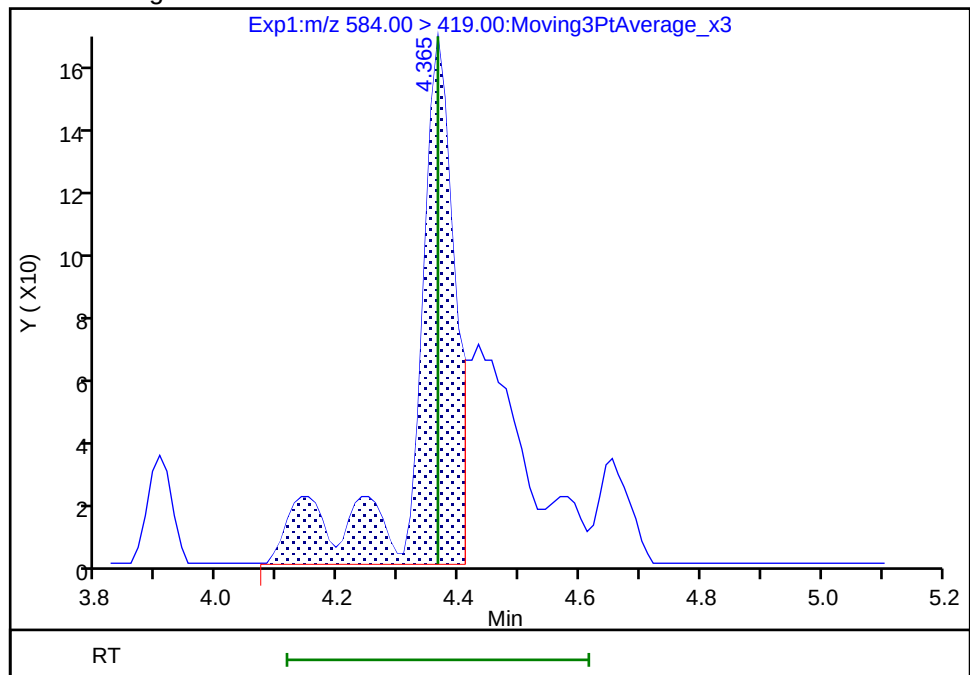
RT: 4.36
Area: 1132
Amount: 0.003086
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 734
Amount: 0.002001
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:45:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

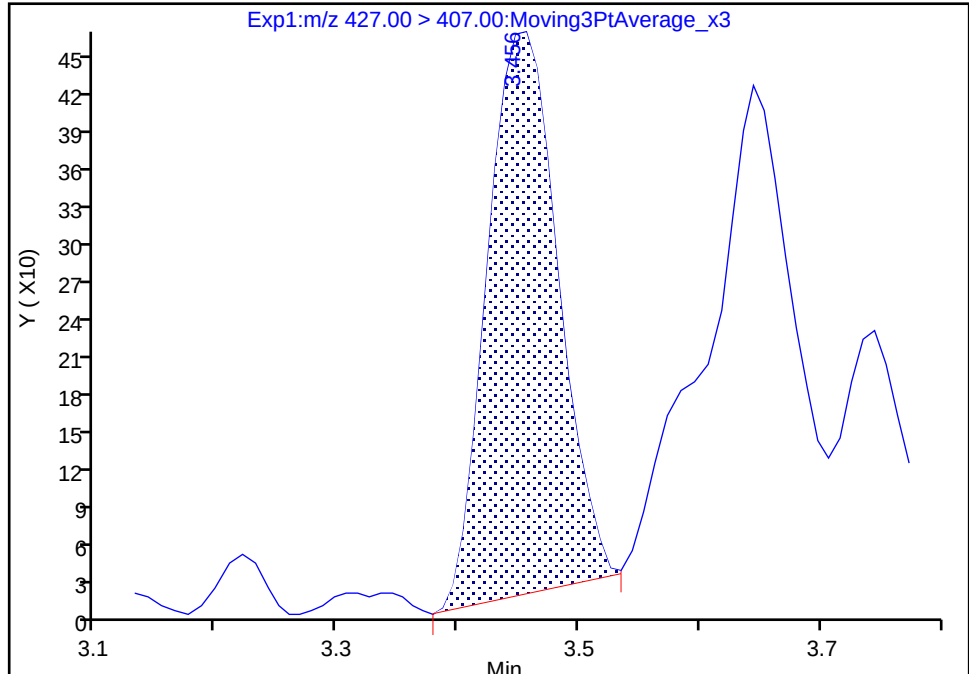
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d
Injection Date: 16-Dec-2022 12:58:41 Instrument ID: LC812
Lims ID: 460-270642-A-3-A Lab Sample ID: 200-270642-3
Client ID: BCS-21-11_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

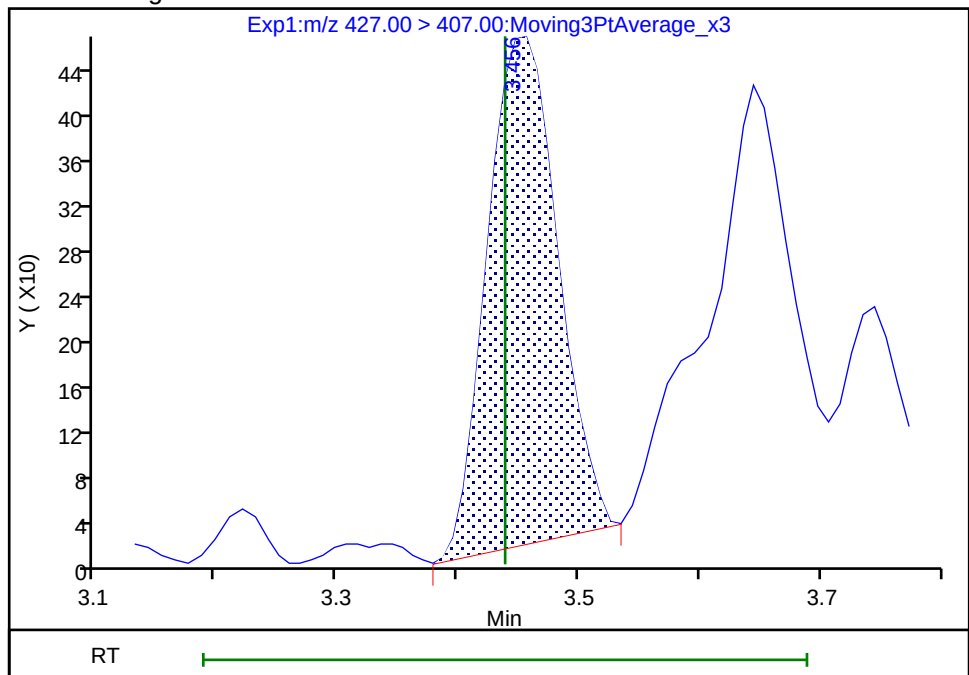
RT: 3.46
Area: 1842
Amount: -0.008014
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 1828
Amount: -0.008044
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:42:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d

Injection Date: 16-Dec-2022 12:58:41

Instrument ID: LC812

Lims ID: 460-270642-A-3-A

Lab Sample ID: 200-270642-3

Client ID: BCS-21-11_(10-10.5)P

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)

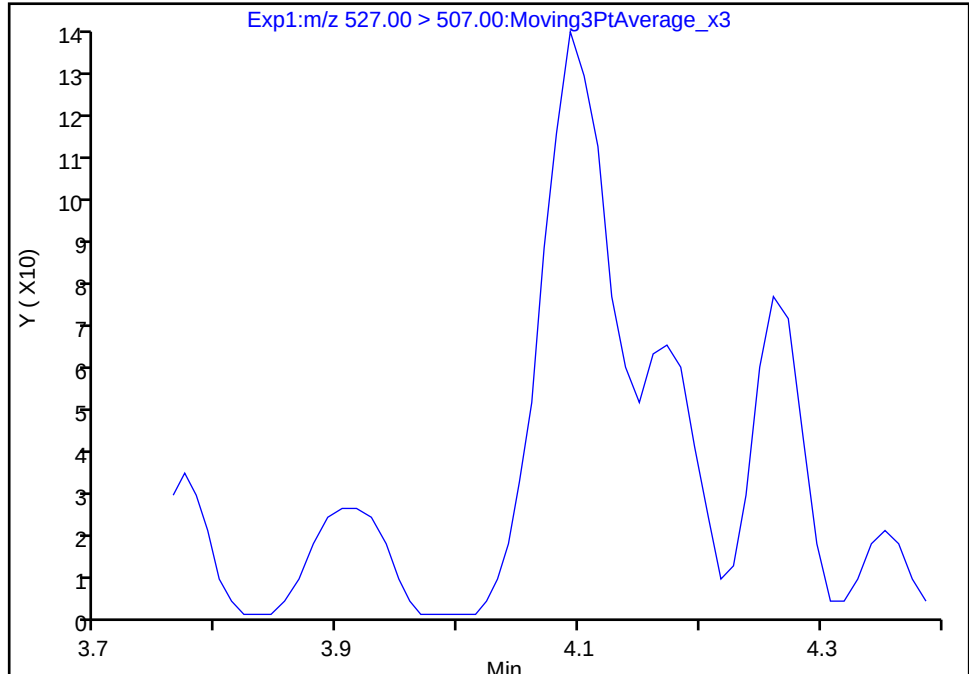
Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

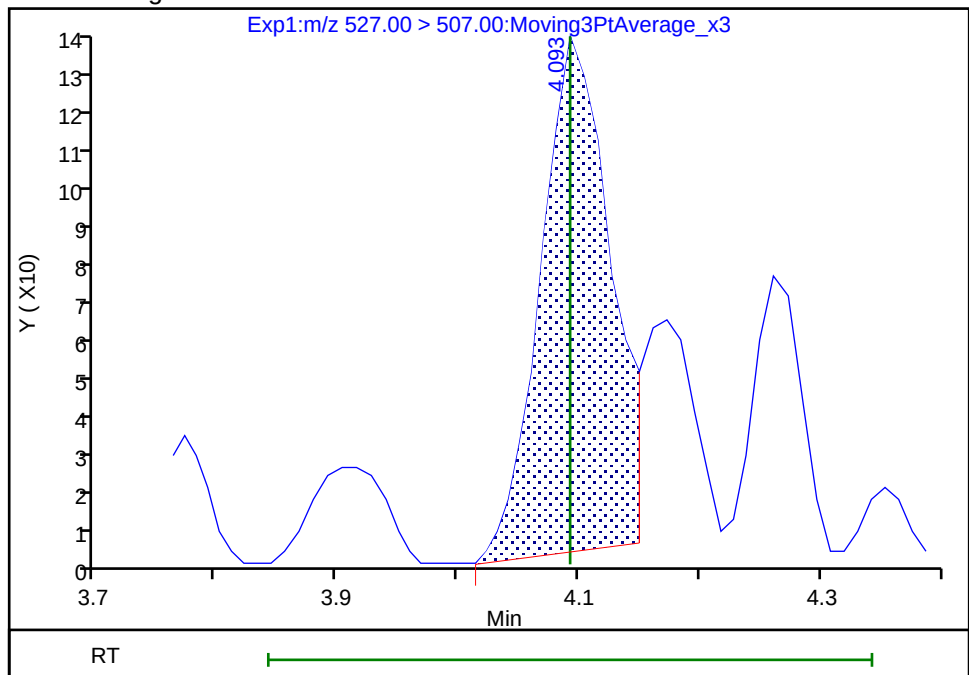
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 514
Amount: 0.001190
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:44:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

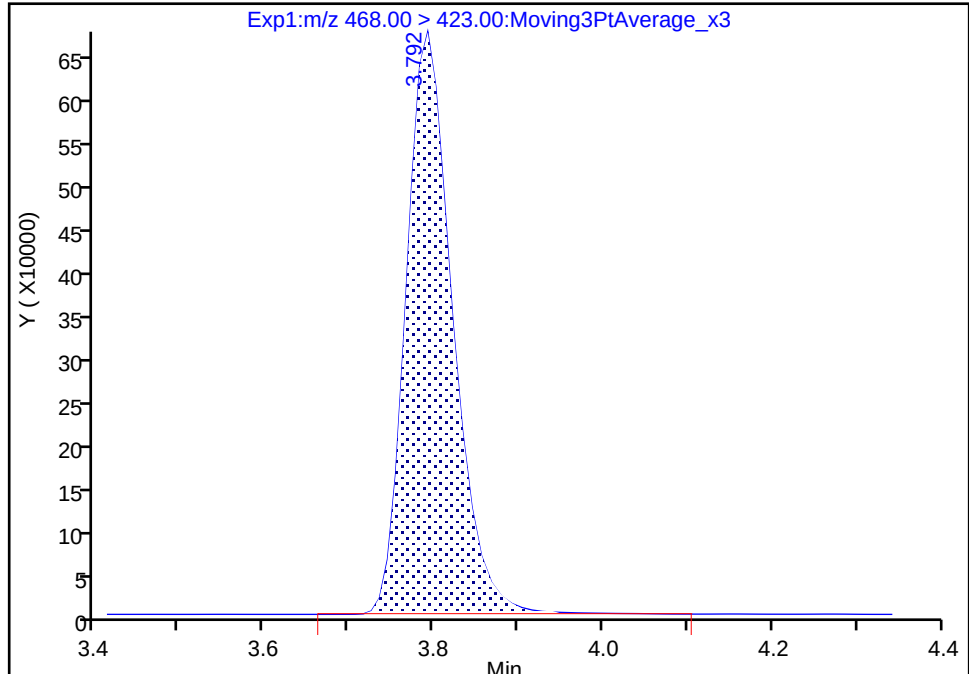
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection 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 19 13C5 PFNA, CAS: STL00995

Signal: 1

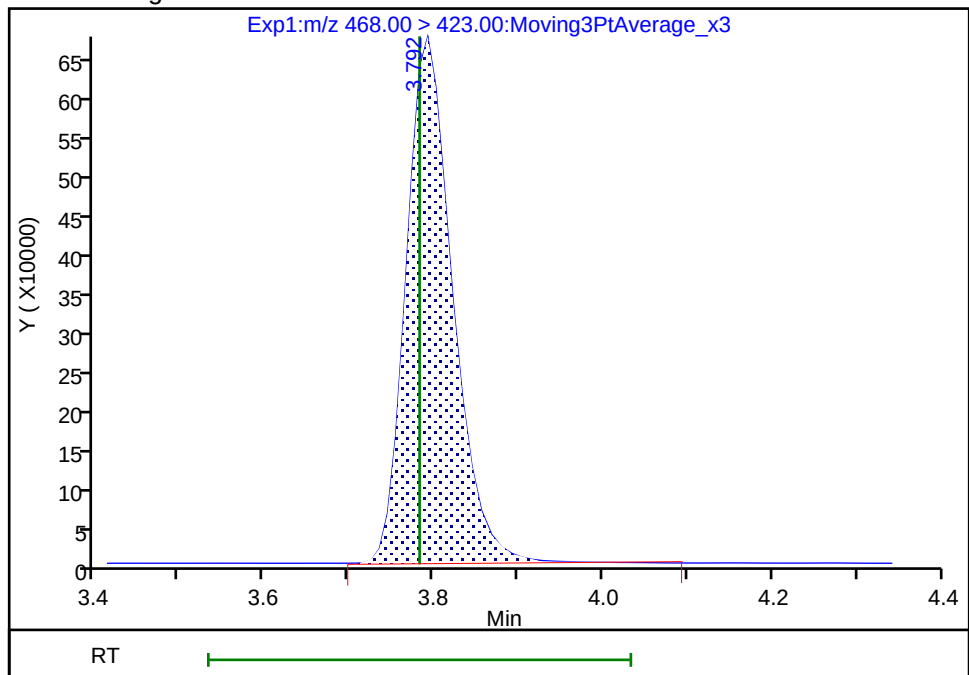
RT: 3.79
Area: 2586283
Amount: 1.231982
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 2583394
Amount: 1.232126
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:40:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

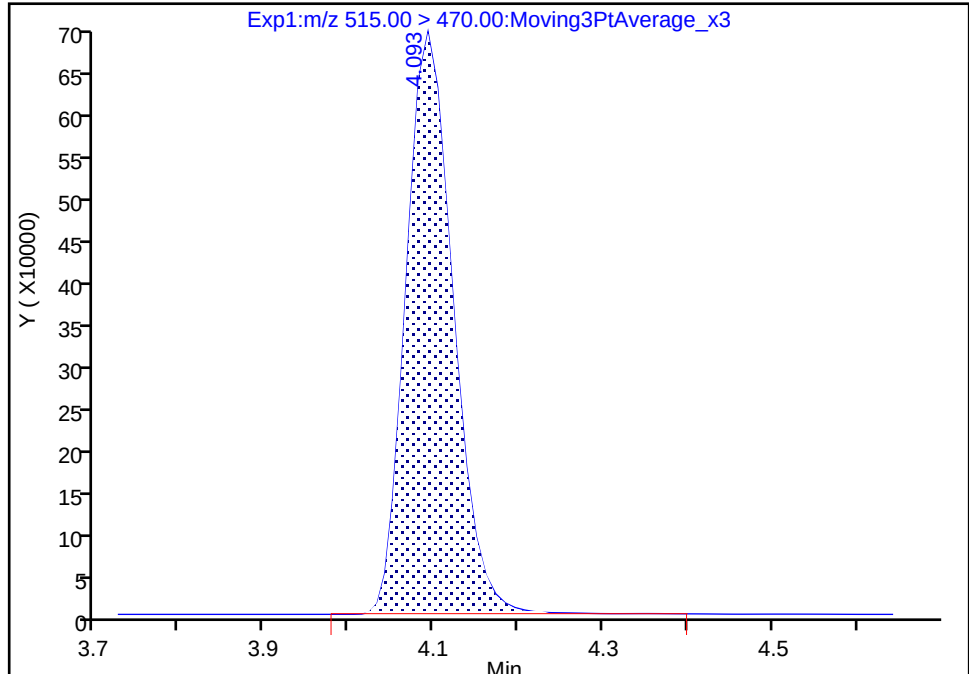
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection 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 23 13C2 PFDA, CAS: STL00996

Signal: 1

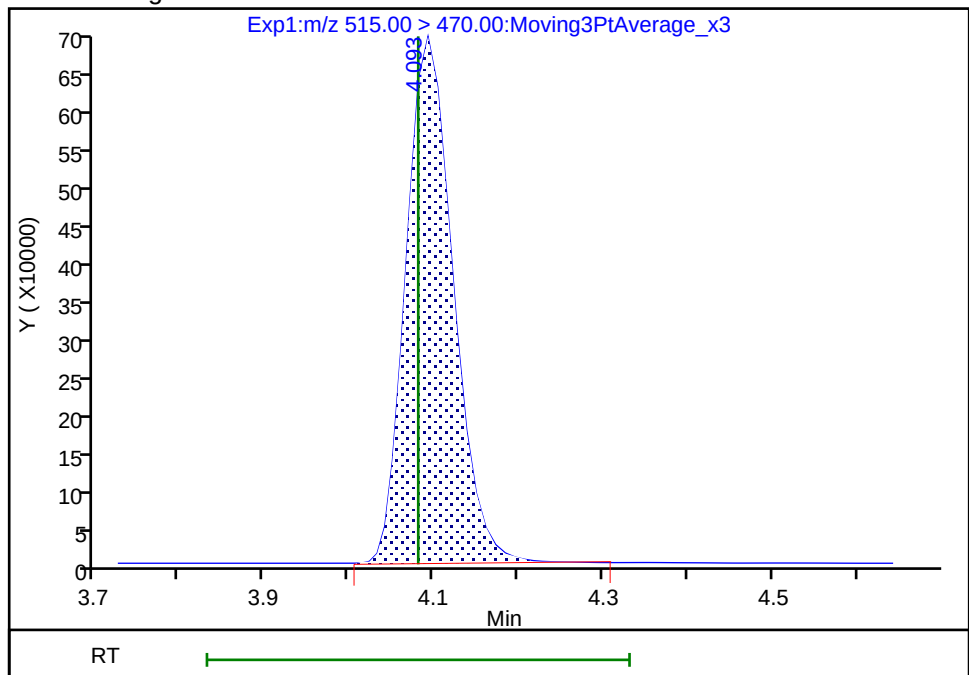
RT: 4.09
Area: 2709212
Amount: 1.266444
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 2704429
Amount: 1.265770
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:40:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

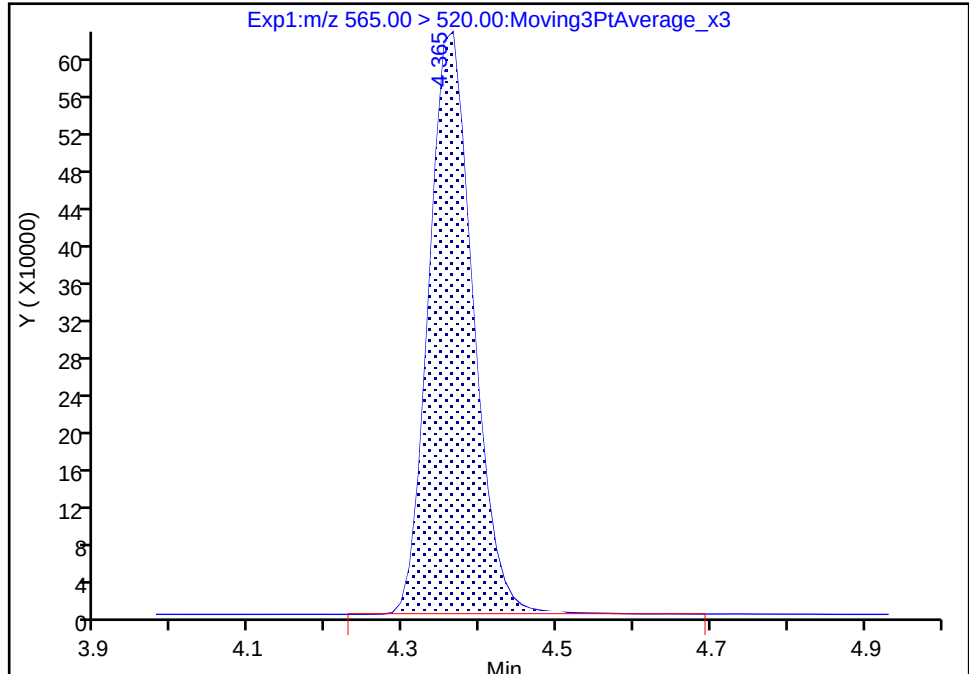
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection 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 30 13C2 PFUnA, CAS: STL00997

Signal: 1

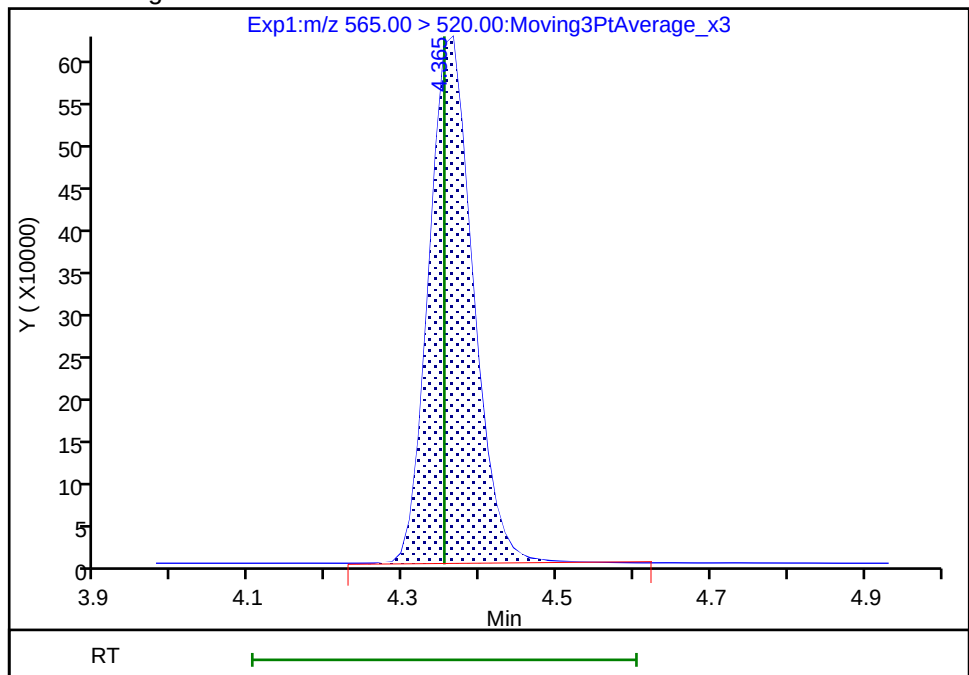
RT: 4.36
Area: 2501262
Amount: 1.276879
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 2500706
Amount: 1.278173
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:41:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

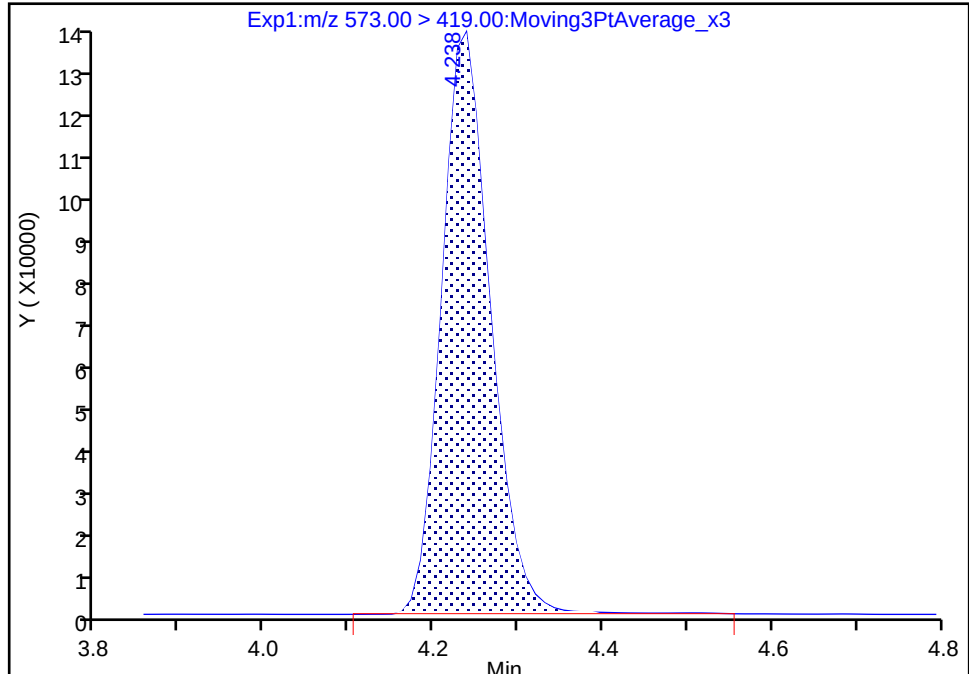
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection 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 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

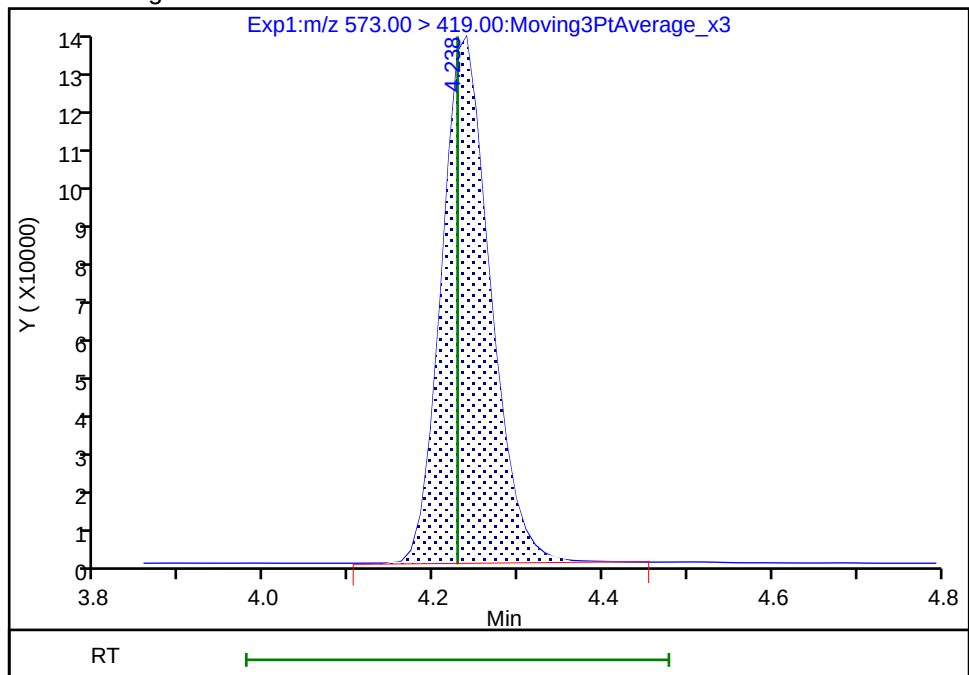
RT: 4.24
Area: 533873
Amount: 1.225696
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 532957
Amount: 1.225104
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:41:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

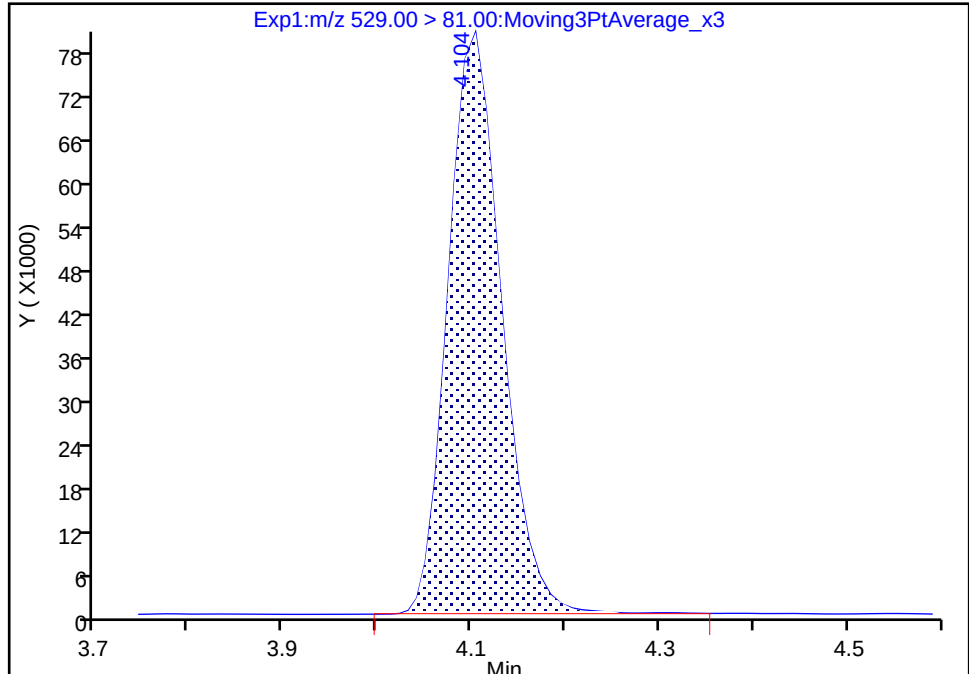
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection 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 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

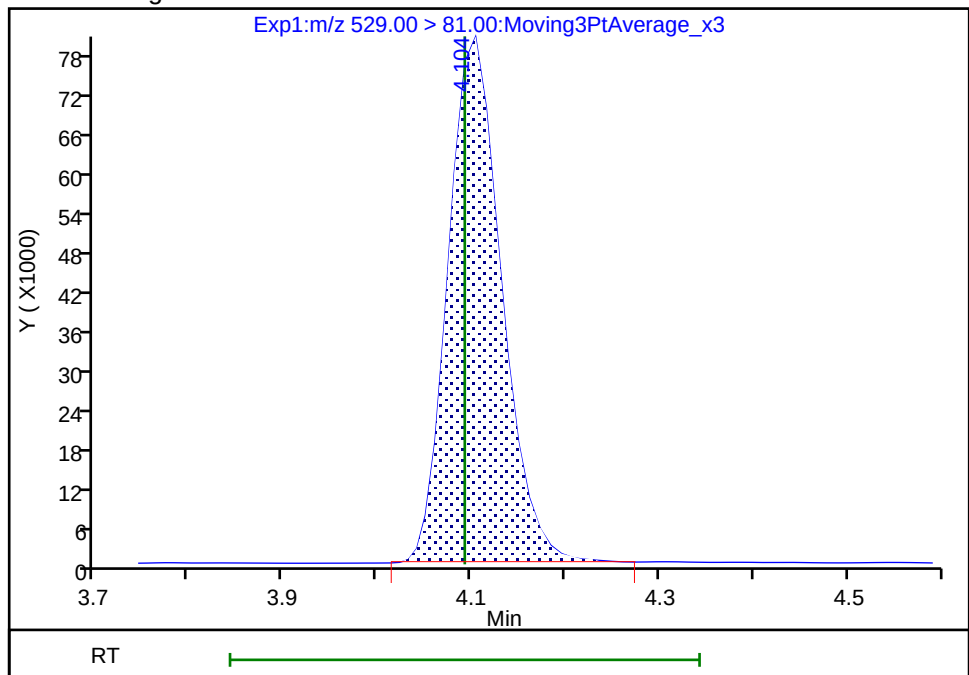
RT: 4.10
Area: 320837
Amount: 1.108446
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 319813
Amount: 1.106273
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:40:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

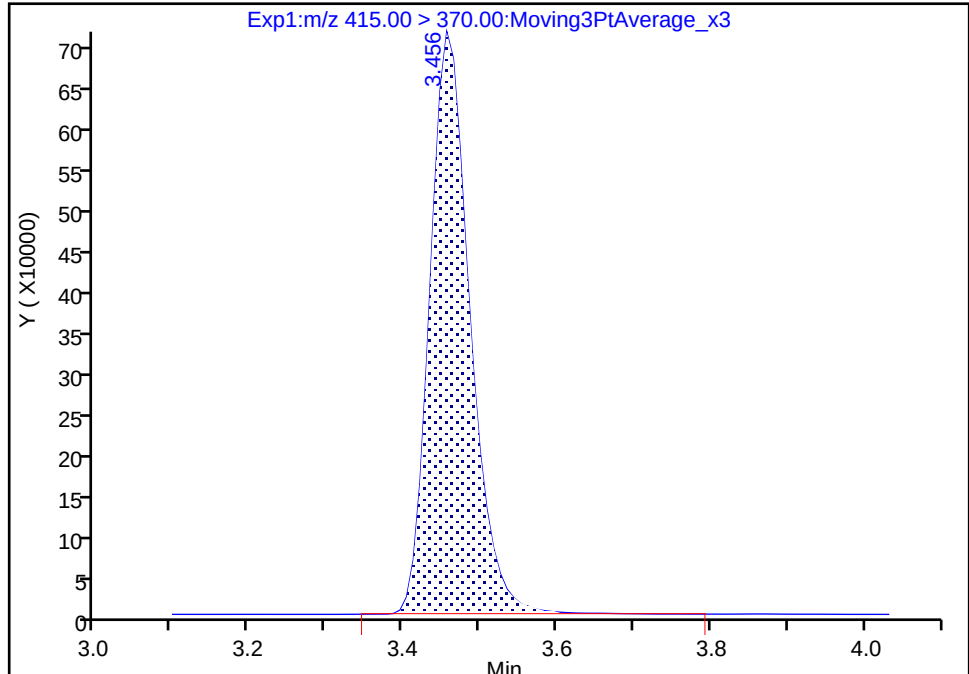
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A10.d				
Injection Date:	16-Dec-2022 12:58:41	Instrument ID:	LC812		
Lims ID:	460-270642-A-3-A	Lab Sample ID:	200-270642-3		
Client ID:	BCS-21-11_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

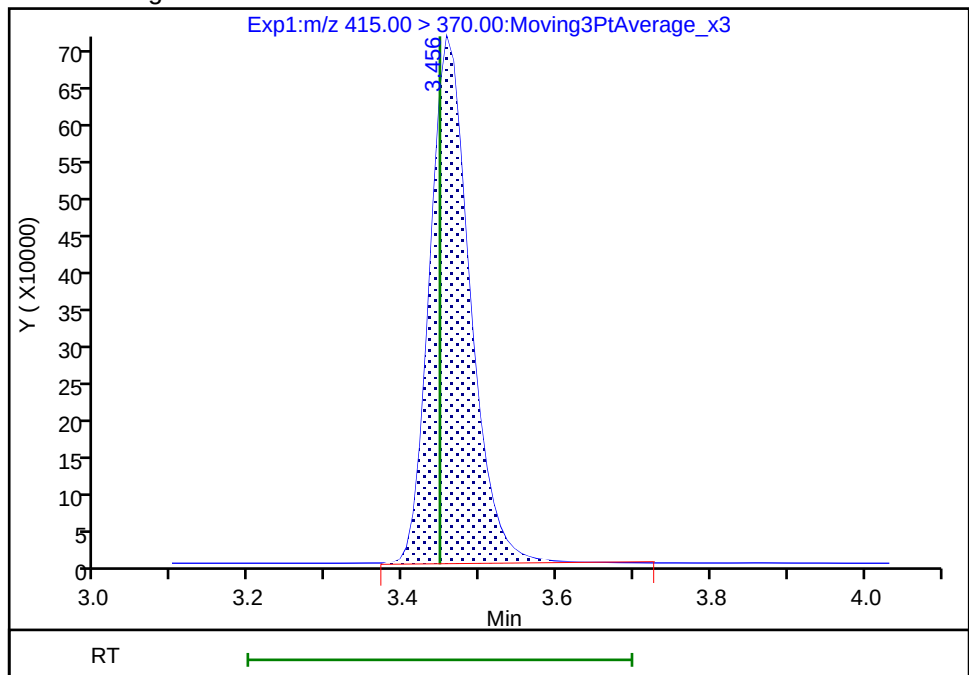
RT: 3.46
Area: 2608953
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 2605734
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:41:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: BCS-21-12_(10-10.5)P Lab Sample ID: 460-270642-4

Matrix: Solid Lab File ID: PA221216A11.d

Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:35

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.18(g) Date Analyzed: 12/16/2022 13:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 20.6 % Solids: 79.4 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.61	U	0.61	0.40
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.24	U	0.24	0.067
307-24-4	Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.056
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	J	0.24	0.071
375-95-1	Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.041
335-76-2	Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.030
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.032
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.050
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	0.24	0.028
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.24	U	0.24	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.023
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.24	U	0.24	0.041
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.43	U	2.43	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.43	U	2.43	0.10
27619-97-2	6:2 FTS	2.43	U	2.43	0.069
39108-34-4	8:2 FTS	2.43	U	2.43	0.045

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: BCS-21-12_(10-10.5)P Lab Sample ID: 460-270642-4

Matrix: Solid Lab File ID: PA221216A11.d

Analysis Method: 537 (modified) Date Collected: 12/02/2022 11:35

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.18(g) Date Analyzed: 12/16/2022 13:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 20.6 % Solids: 79.4 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	84		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	95		50-150
STL00991	13C4 PFOS	88		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	76		50-150
STL00993	13C2 PFHxA	90		50-150
STL00996	13C2 PFDA	92		50-150
STL00997	13C2 PFUnA	96		50-150
STL00998	13C2 PFDoA	94		50-150
STL01056	13C8 FOSA	85		50-150
STL01893	13C5 PFPeA	83		50-150
STL02116	13C2 PFTeDA	90		50-150
STL02118	d3-NMeFOSAA	91		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	85		50-150
STL02280	M2-8:2 FTS	84		50-150
STL02337	13C3 PFBS	81		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
 Lims ID: 460-270642-A-4-A
 Client ID: BCS-21-12_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Dec-2022 13:06:50 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-270642-A-4-A
 Misc. Info.: 200-0053717-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 09:52:27

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	2.086	2.076	0.010	0.604	2223485	0.9507		76.1	7586	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.076	0.018	1.004	83860	0.0457		7.0		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.391	2.387	0.004	0.692	1847548	1.04		83.0	2562	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.391	2.387	0.004	1.000	35381	0.0220		0.8		M
D 47 13C3 PFBS										
301.90 > 80.00	2.404	2.400	0.004	0.696	1825164	0.9431		81.1	319629	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.418	2.400	0.018	1.006	2997	0.001668	Target=2.09	4.4		M
298.90 > 99.00	2.418	2.400	0.018	1.006	2058		1.46(1.04-3.13)	0.6		M
D 7 13C2 PFHxA										
315.00 > 270.00	2.733	2.725	0.008	0.791	2104548	1.13		90.2	3820	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.733	2.725	0.008	1.000	28706	0.0156	Target=14.25	5.7		M
313.00 > 119.00	2.733	2.725	0.008	1.000	1596		17.99(7.12-21.37)	3.1		
D 11 18O2 PFHxS										
403.00 > 84.00	3.094	3.088	0.006	0.896	1401391	0.99		84.1	1567	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.094	3.088	0.006	1.000	15332	0.0115	Target=3.66	52.1		
399.00 > 99.00	3.094	3.088	0.006	1.000	3497		4.38(1.83-5.49)	2.6		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.094	3.099	-0.005	0.896	2165400	1.13		90.2	1982	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.105	3.099	0.006	1.004	33954	0.0180	Target=3.97	6.7		M
363.00 > 169.00	3.105	3.099	0.006	1.004	9094		3.73(1.98-5.95)	28.2		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.444	3.439	0.005	0.997	237290	1.00		84.5	552	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.435	3.439	-0.004	0.997	1520	-0.008272			7.0	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.453	3.448	0.005	1.000	2549582	1.18		94.5	4128	M
* 62 13C2 PFOA										
415.00 > 370.00	3.453	3.448	0.005		2606436	1.25			3710	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.453	3.448	0.005	1.000	159367	0.0731	Target=2.79		12.0	M
413.00 > 169.00	3.461	3.448	0.013	1.003	59290		2.69(1.40-4.19)		100	M
D 18 13C4 PFOS										
503.00 > 80.00	3.770	3.764	0.006	1.092	1009742	1.06		88.3	4019	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.779	3.764	0.015	1.003	13162	0.0128	Target=5.11		10.4	RM
499.00 > 99.00	3.614	3.764	-0.150	0.959	14977		0.88(2.55-7.66)		43.4	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.789	3.783	0.006	1.000	5074	0.002378	Target=8.55		1.3	M
463.00 > 169.00	3.789	3.783	0.006	1.000	762		6.66(4.28-12.83)		9.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.789	3.783	0.006	1.097	2571263	1.23		98.1	4120	
D 23 13C2 PFDA										
515.00 > 470.00	4.091	4.081	0.010	1.185	2468734	1.16		92.4	6317	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.091	4.081	0.010	1.000	5399	0.002521	Target=10.26		2.2	M
513.00 > 169.00	4.091	4.081	0.010	1.000	595		9.07(5.13-15.38)		2.5	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.093	0.010	1.188	290996	1.01		84.0	940	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.103	4.093	0.010	1.000	381	0.000970			7.2	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.160	4.150	0.010	1.003	1124	0.000719			4.0	M
D 21 13C8 FOSA										
506.00 > 78.00	4.149	4.150	-0.001	1.202	1869313	1.07		85.4	4262	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.237	4.228	0.009	1.227	496321	1.14		91.2	1684	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.248	4.228	0.020	1.003	474	-0.0102			1.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.363	4.353	0.010	1.264	2344167	1.20		95.8	6101	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.363	4.353	0.010	1.000	3729	0.001973	Target=9.88		1.8	R
563.00 > 169.00	4.352	4.353	-0.001	0.997	189		19.73(4.94-14.82)		2.8	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.375	4.365	0.010	1.000	306	0.000881			3.2	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.375	4.365	0.010	1.267	484806	1.13		90.5	1026	

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	4.600	4.591	0.009	1.000	1914	0.000965	Target=7.77	0.2		M
613.00 > 169.00	4.600	4.591	0.009	1.000	261		7.33(3.89-11.66)	2.0		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.600	4.591	0.009	1.332	2339015	1.17		93.8	4202	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.836	4.804	0.032	1.051	1996	0.001053	Target=5.21	0.3		M
663.00 > 169.00	4.836	4.804	0.032	1.051	539		3.70(2.60-7.81)	3.5		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.011	5.012	-0.001	1.000	547	0.002571	Target=0.89	6.7		M
713.00 > 219.00	5.011	5.012	-0.001	1.000	445		1.23(0.44-1.33)	4.5		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.011	5.012	-0.001	1.451	1942862	1.13		90.1	5629	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d

Injection Date: 16-Dec-2022 13:06:50

Instrument ID: LC812

Lims ID: 460-270642-A-4-A

Lab Sample ID: 200-270642-4

Client ID: BCS-21-12_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

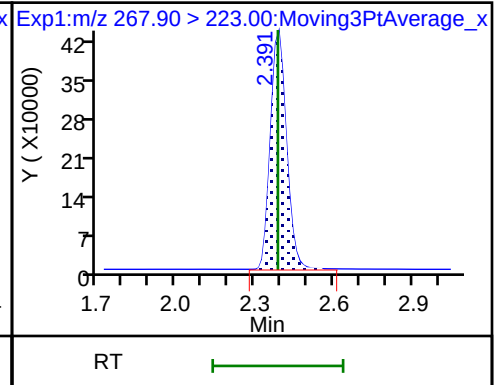
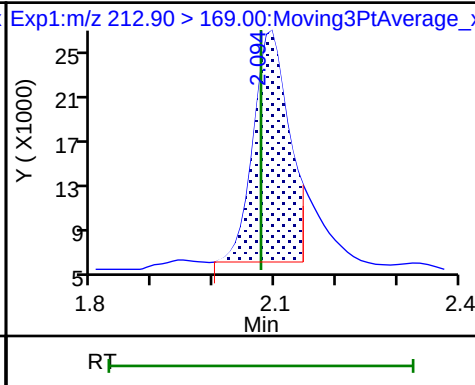
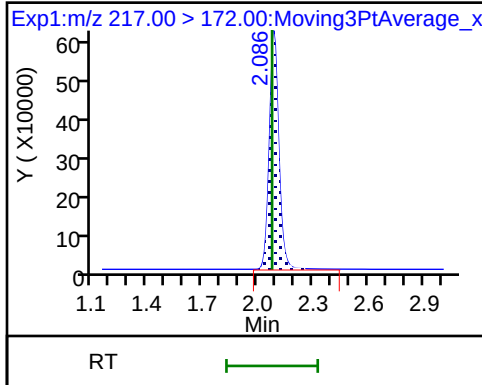
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

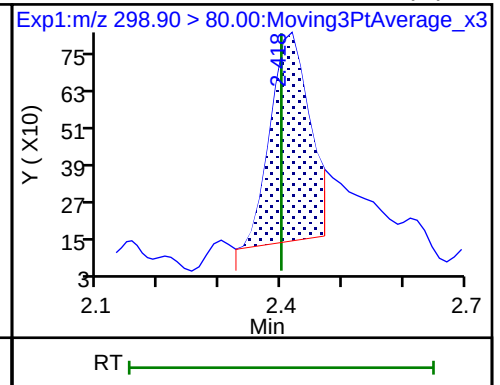
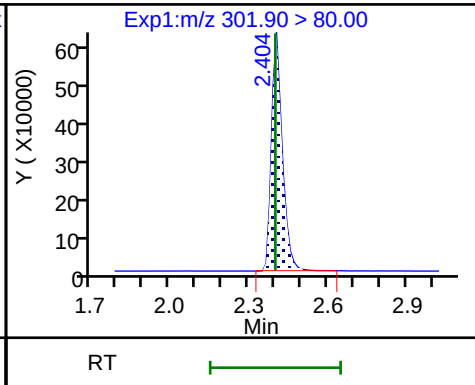
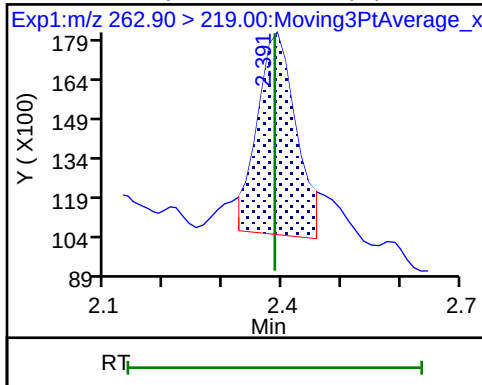
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

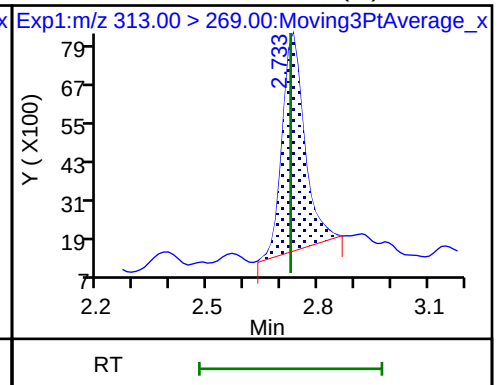
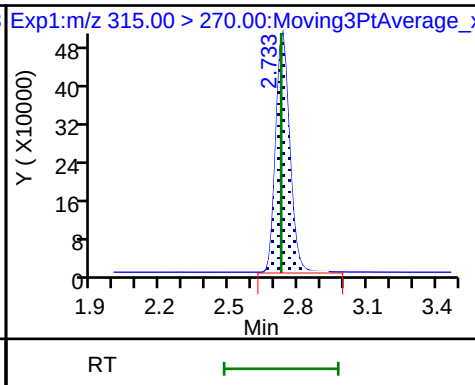
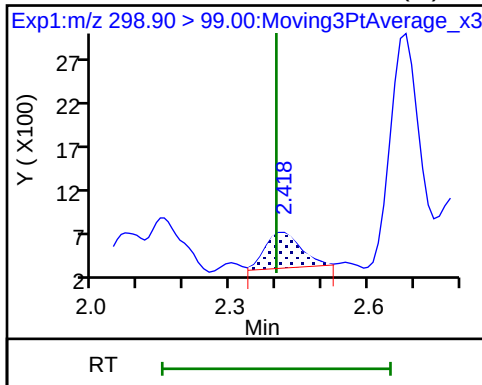
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

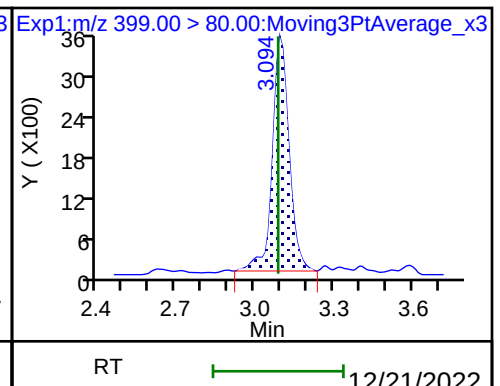
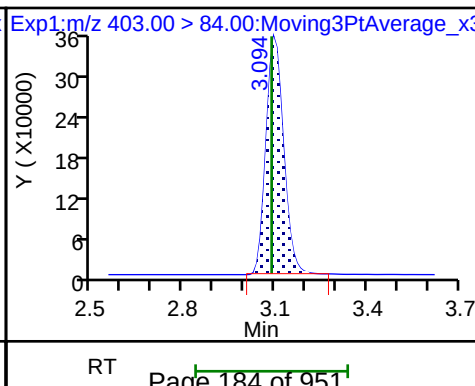
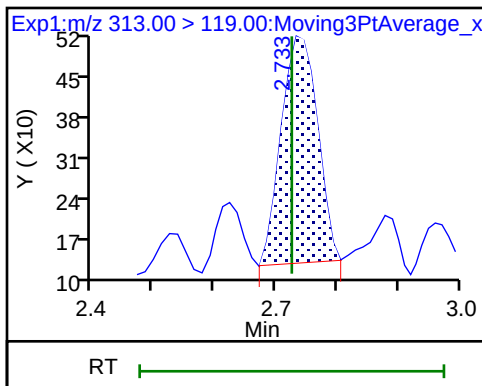
6 Perfluorohexanoic acid (M)

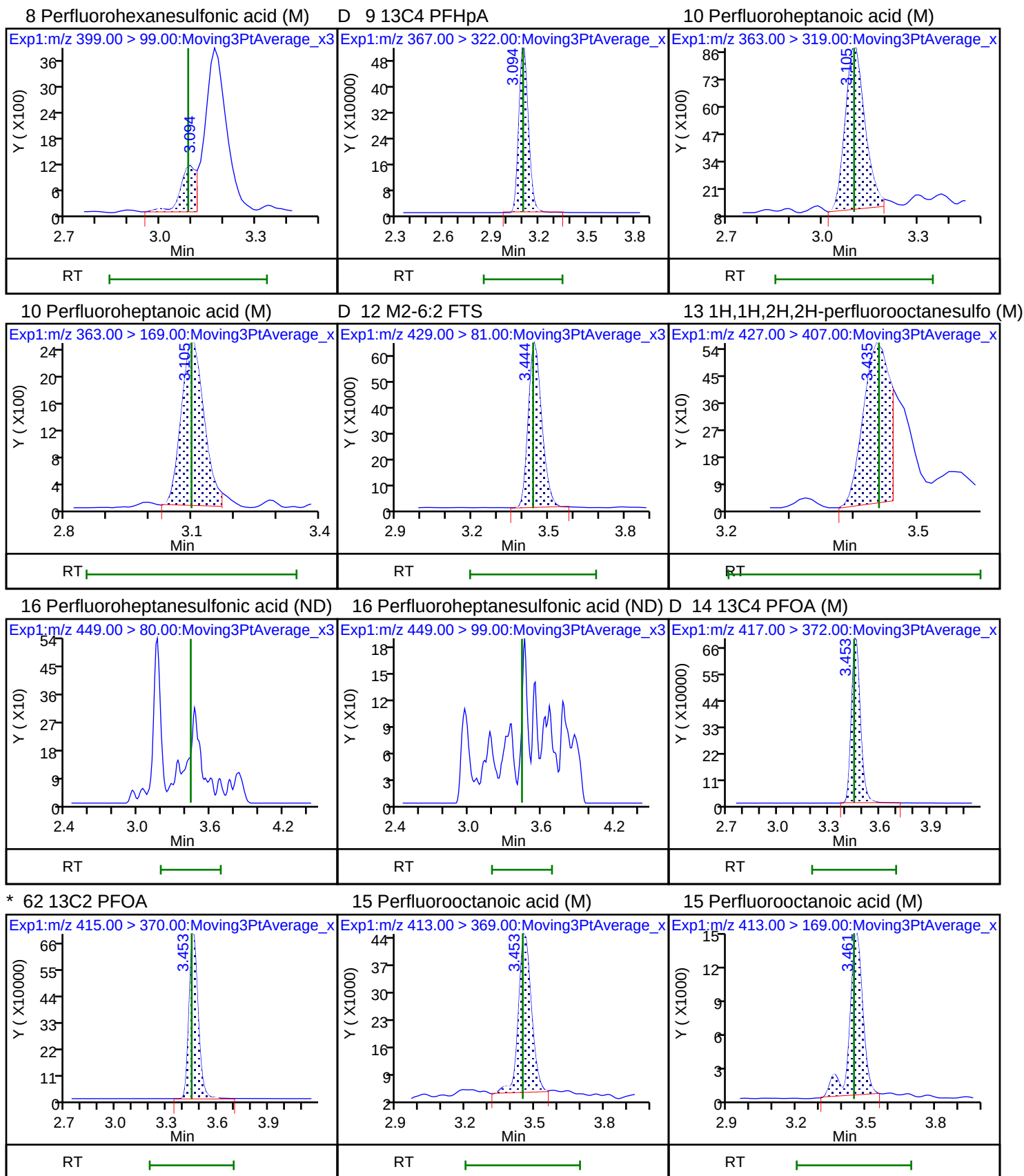


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid

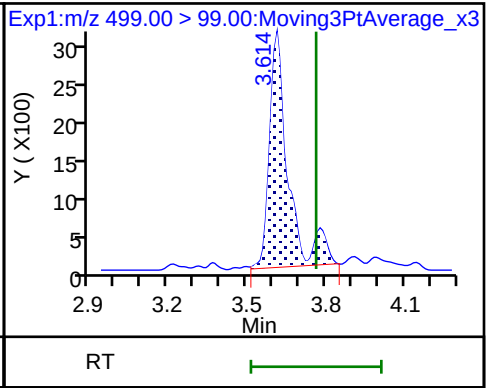
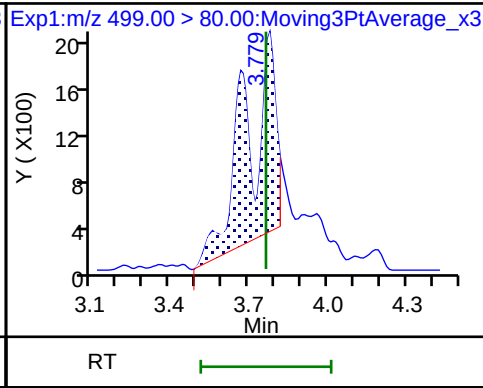
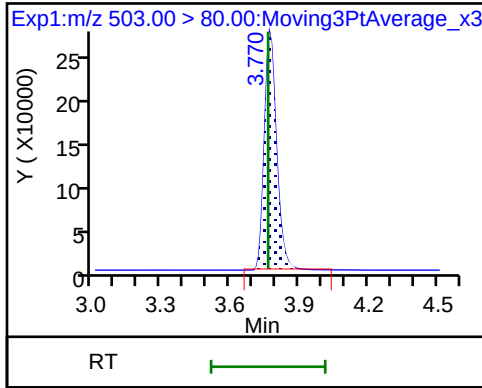




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

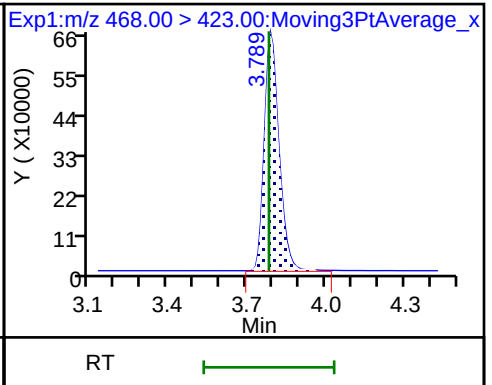
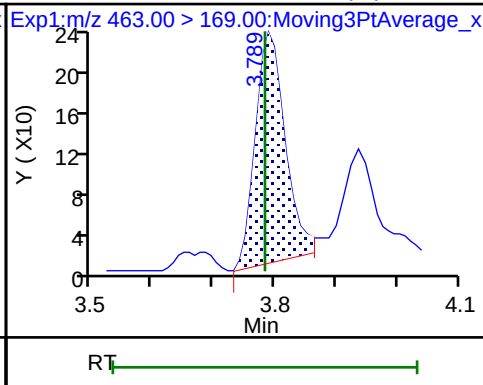
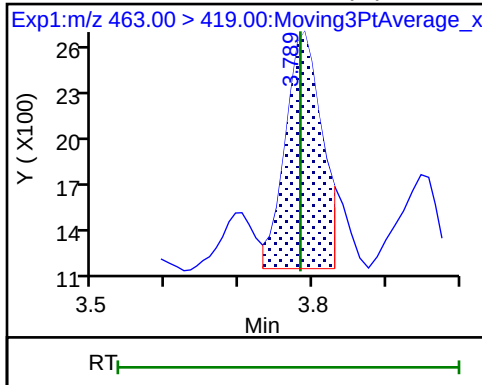
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

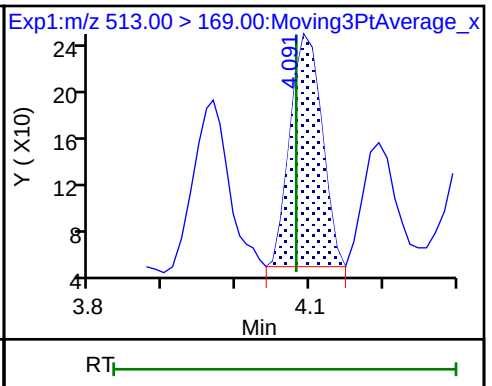
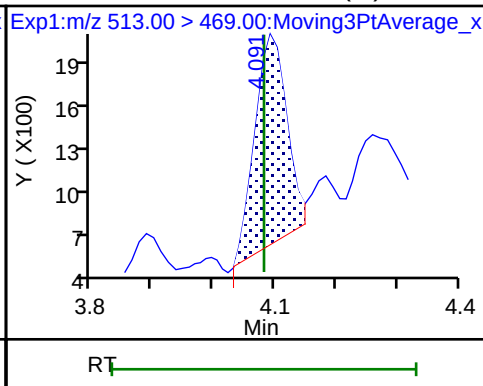
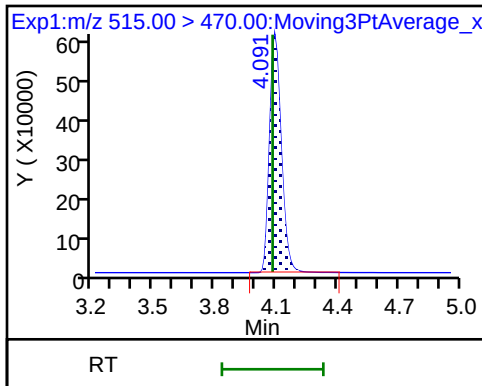
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

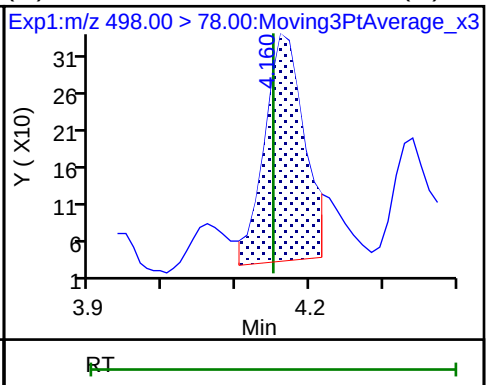
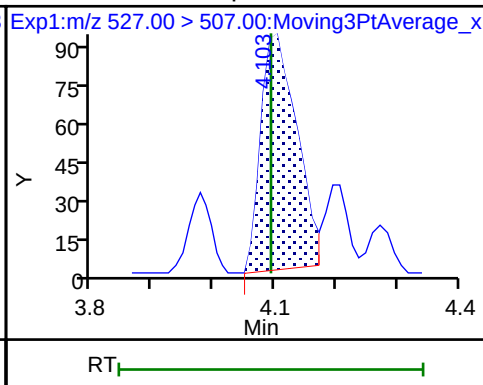
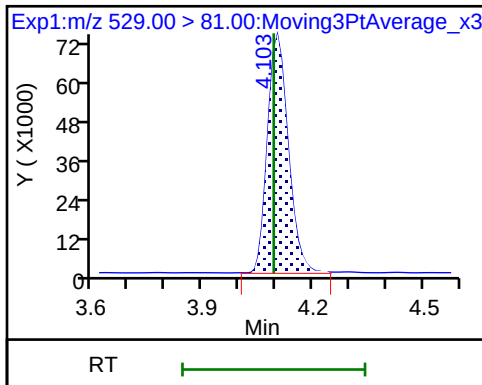
24 Perfluorodecanoic acid



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

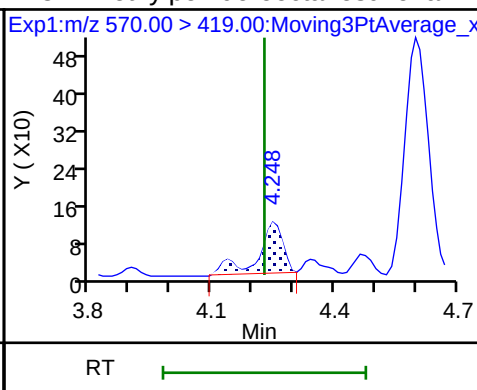
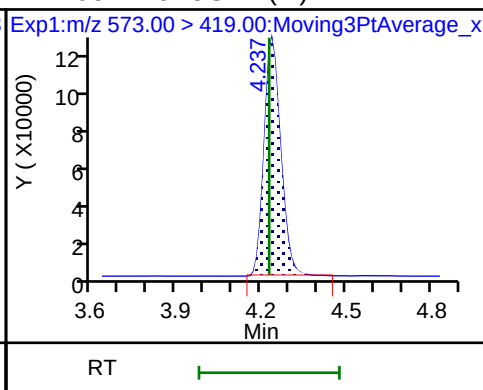
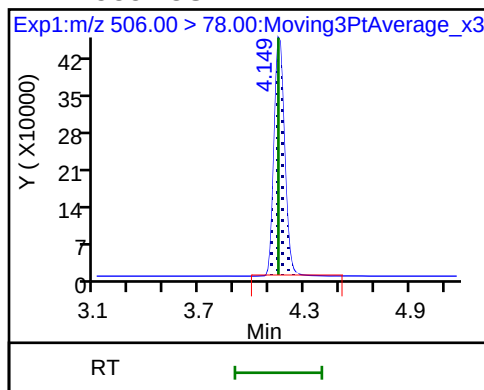
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA (M)

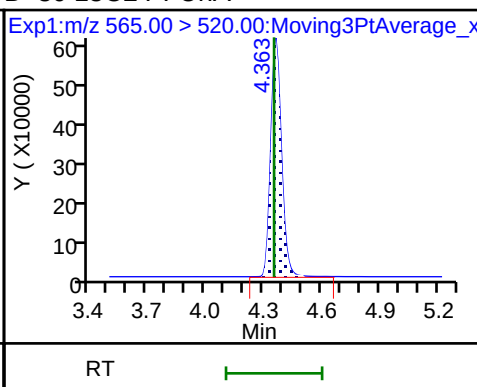
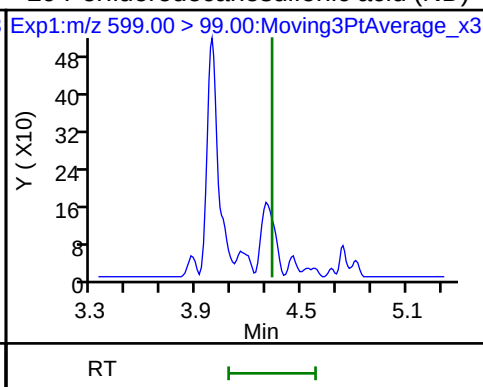
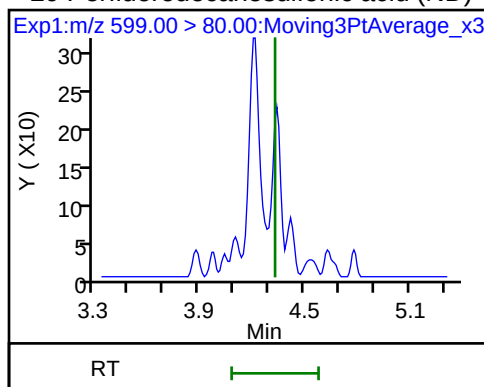
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

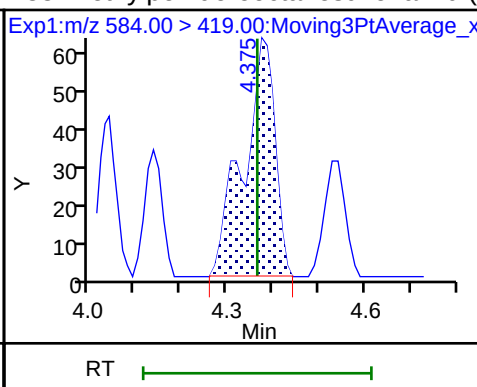
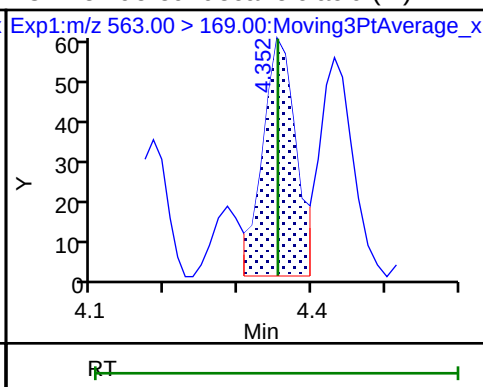
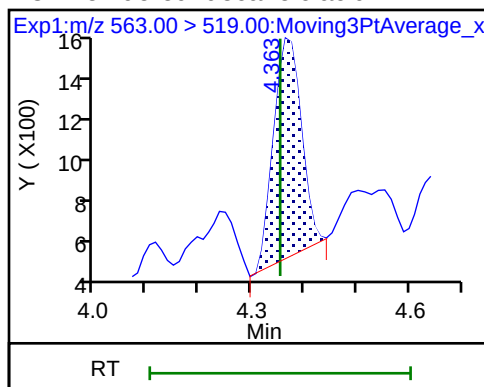
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

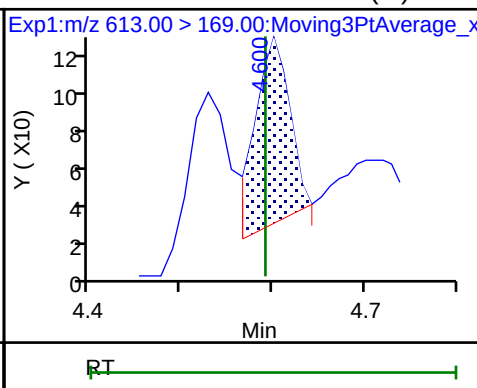
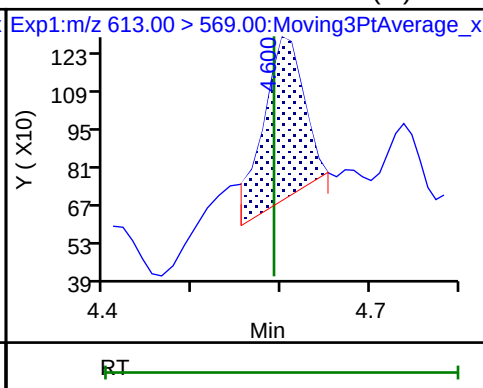
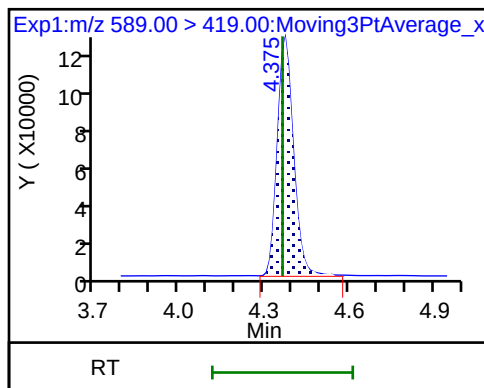
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

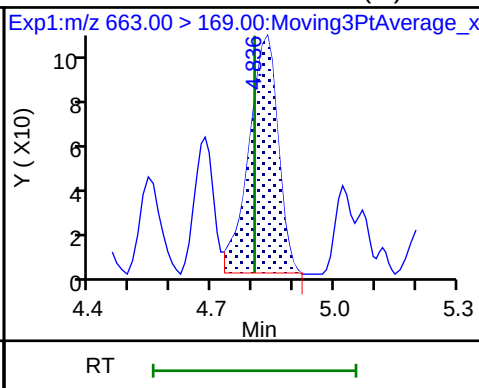
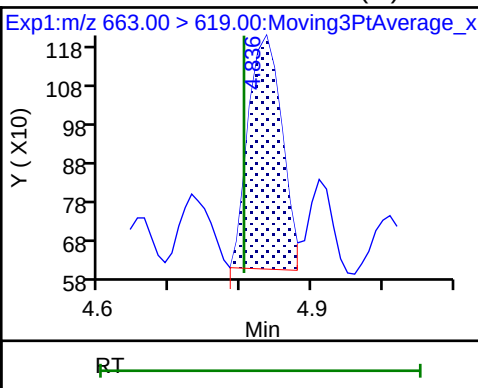
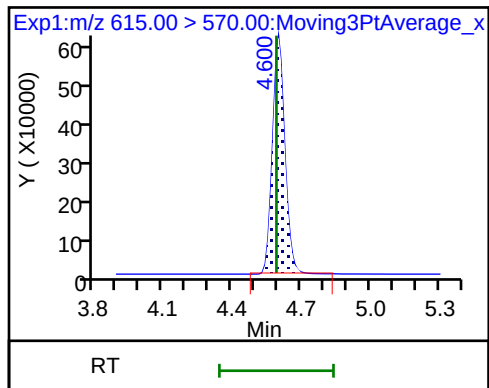
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

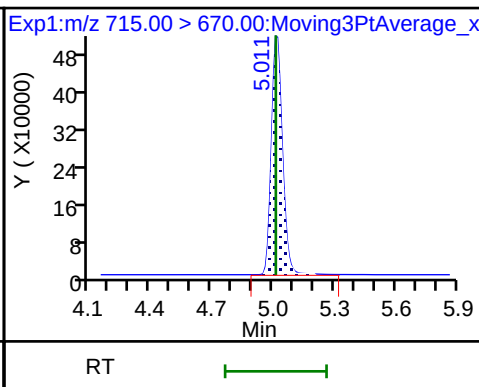
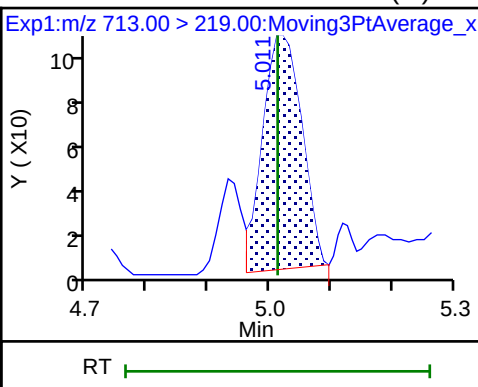
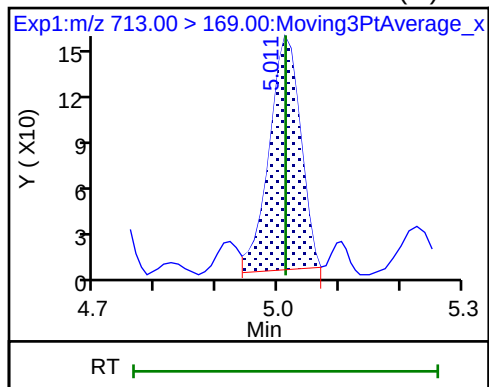
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

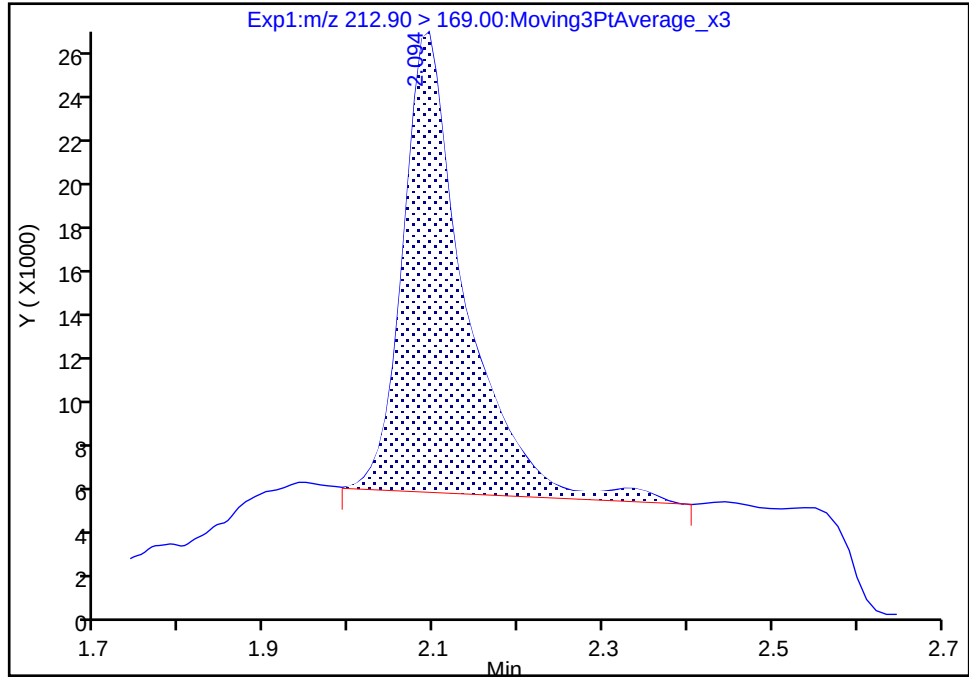
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Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

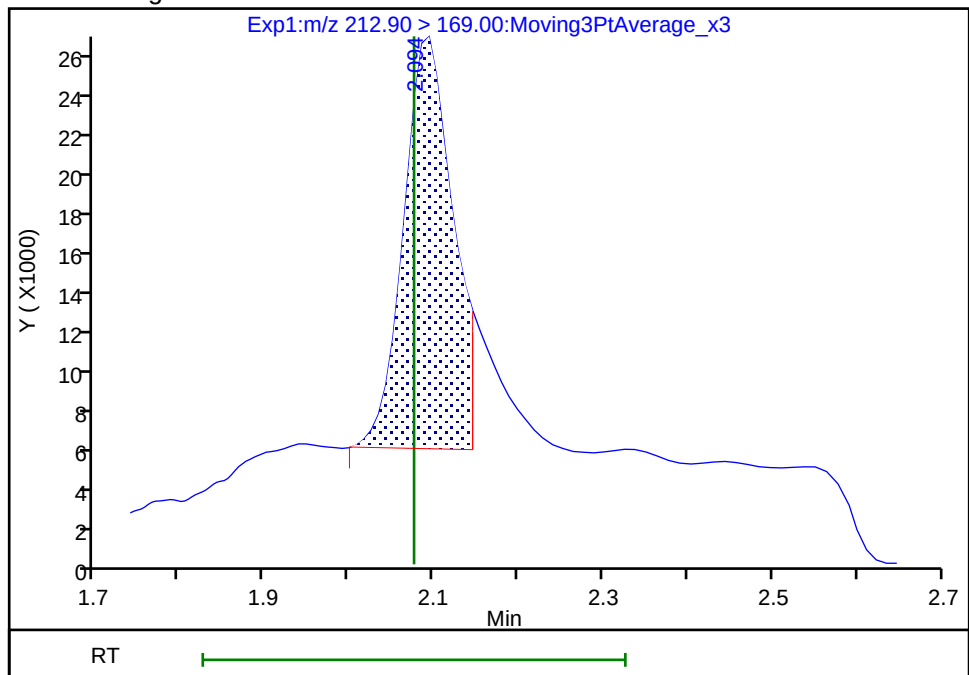
RT: 2.09
Area: 107067
Amount: 0.058370
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 83860
Amount: 0.045718
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:47:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

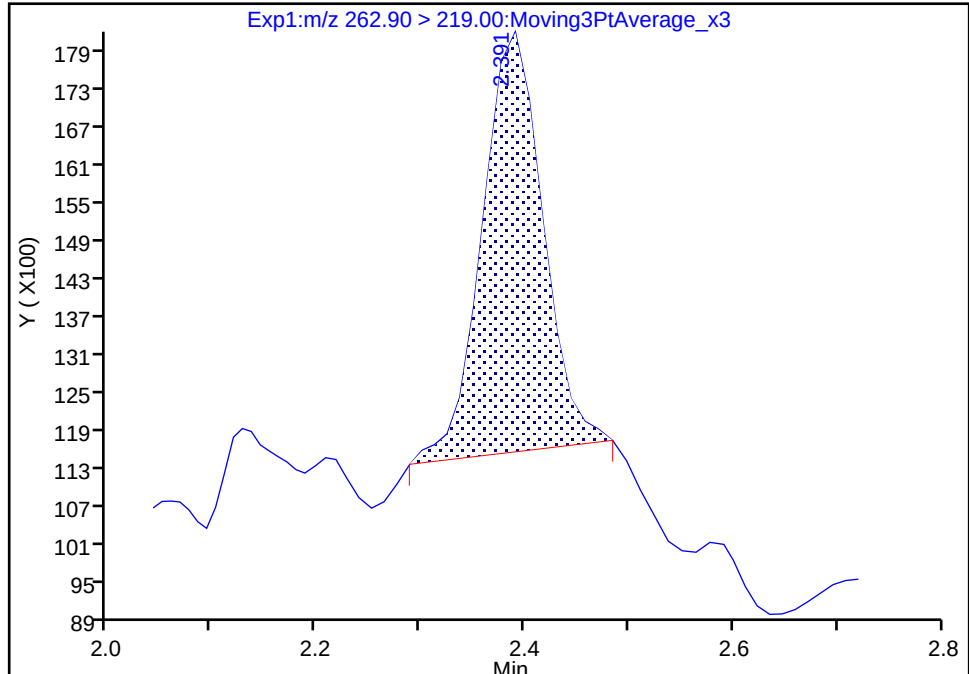
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

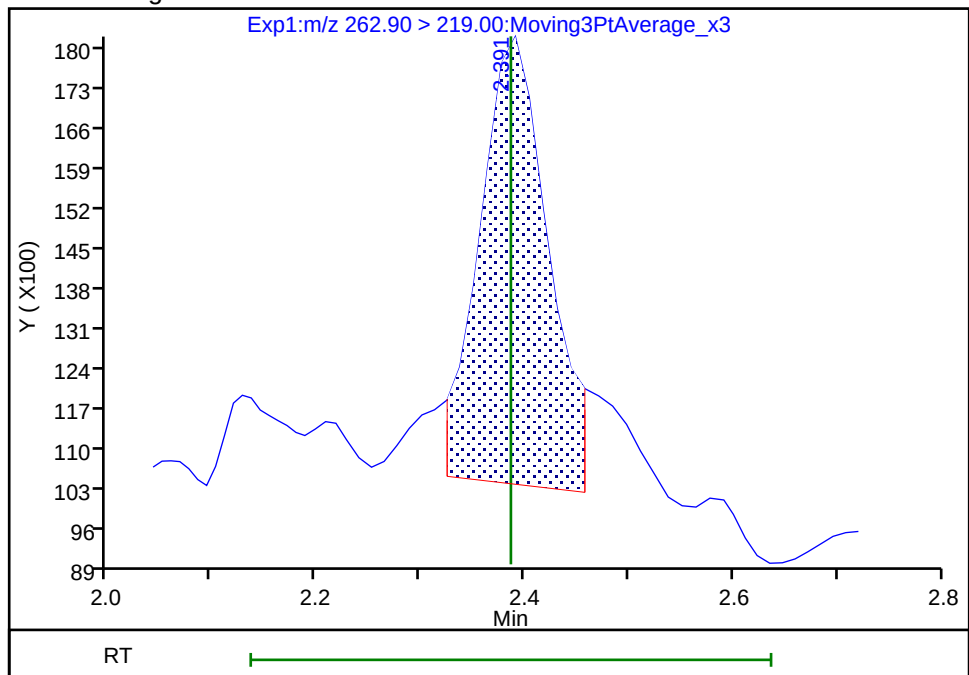
RT: 2.39
Area: 26783
Amount: 0.016627
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 35381
Amount: 0.021965
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:48:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

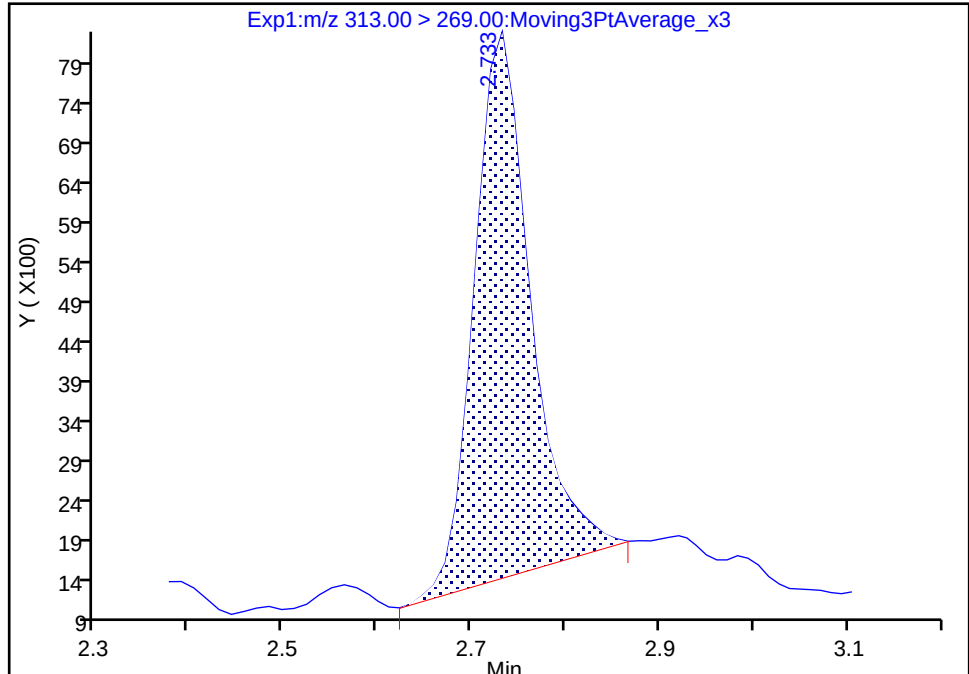
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

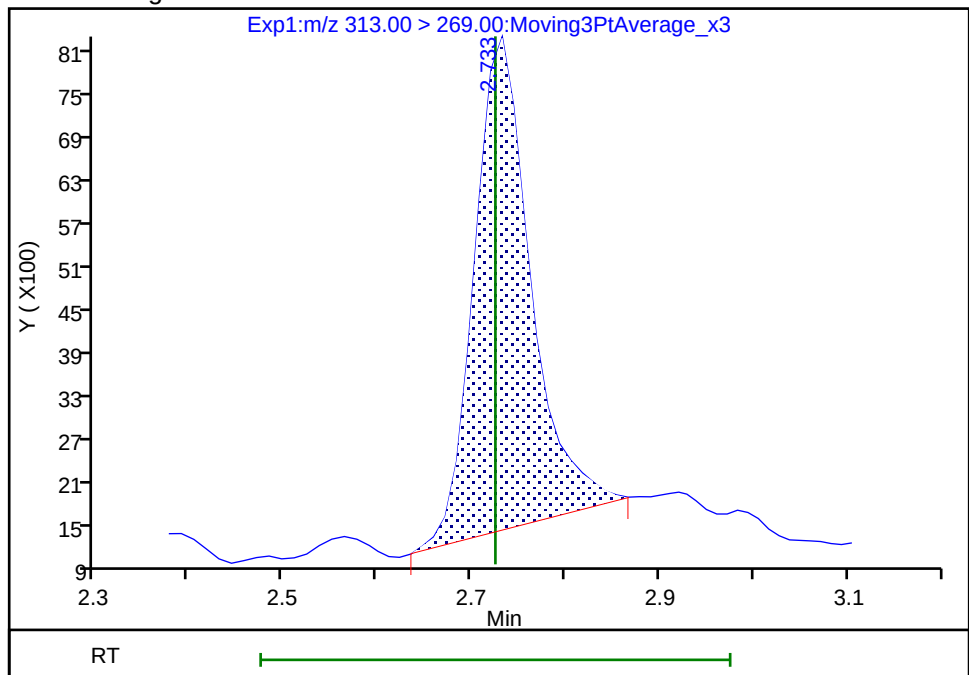
RT: 2.73
Area: 28736
Amount: 0.015664
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 28706
Amount: 0.015648
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:48:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

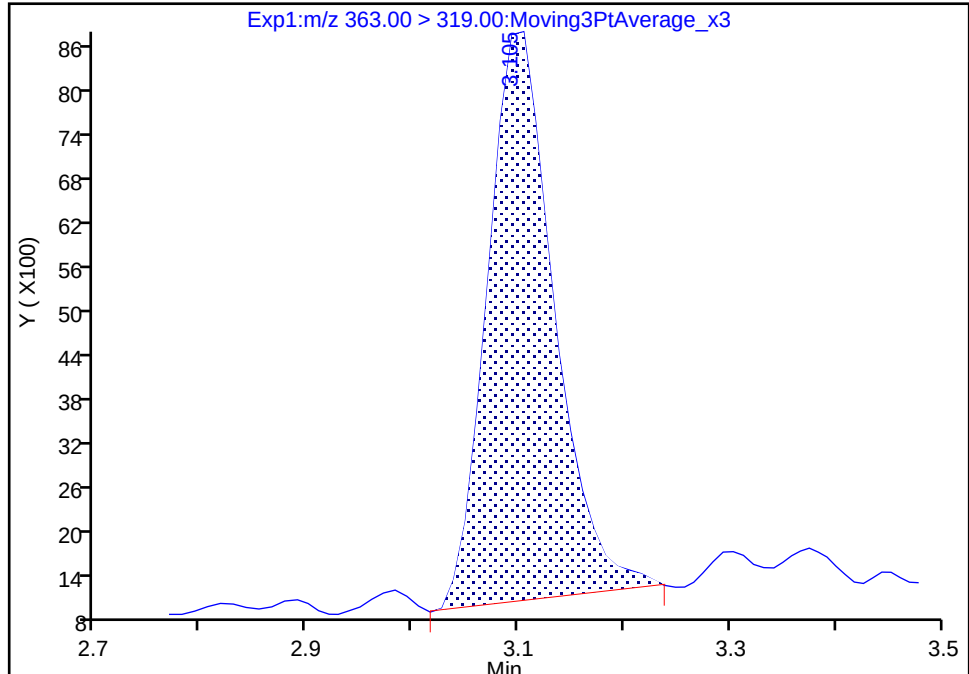
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

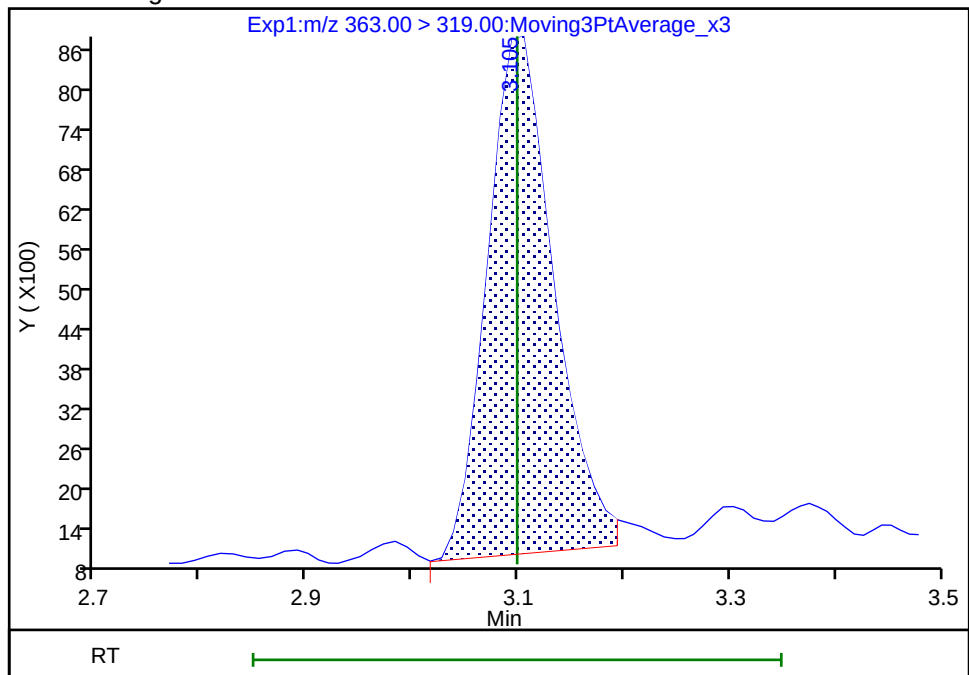
RT: 3.10
Area: 34212
Amount: 0.018139
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 33954
Amount: 0.018002
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:49:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

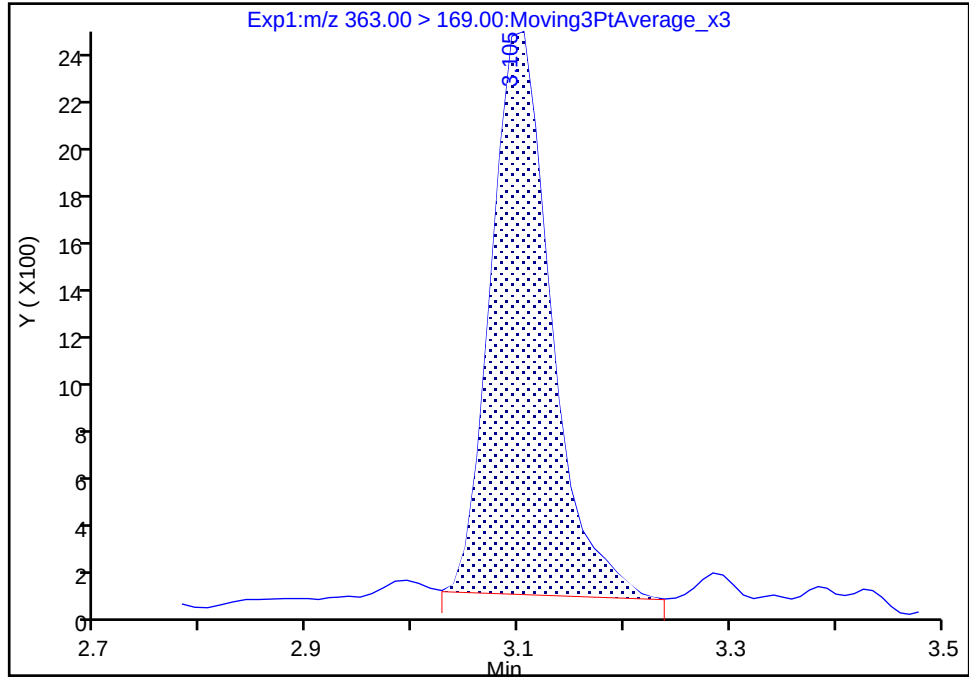
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

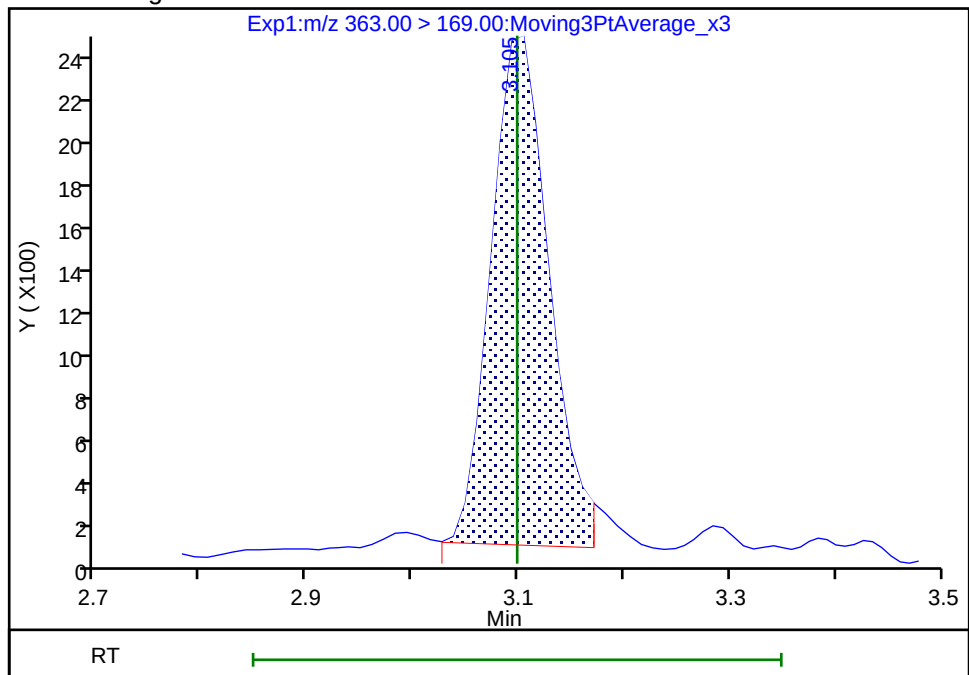
RT: 3.10
Area: 9401
Amount: 0.018139
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 9094
Amount: 0.018002
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:49:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

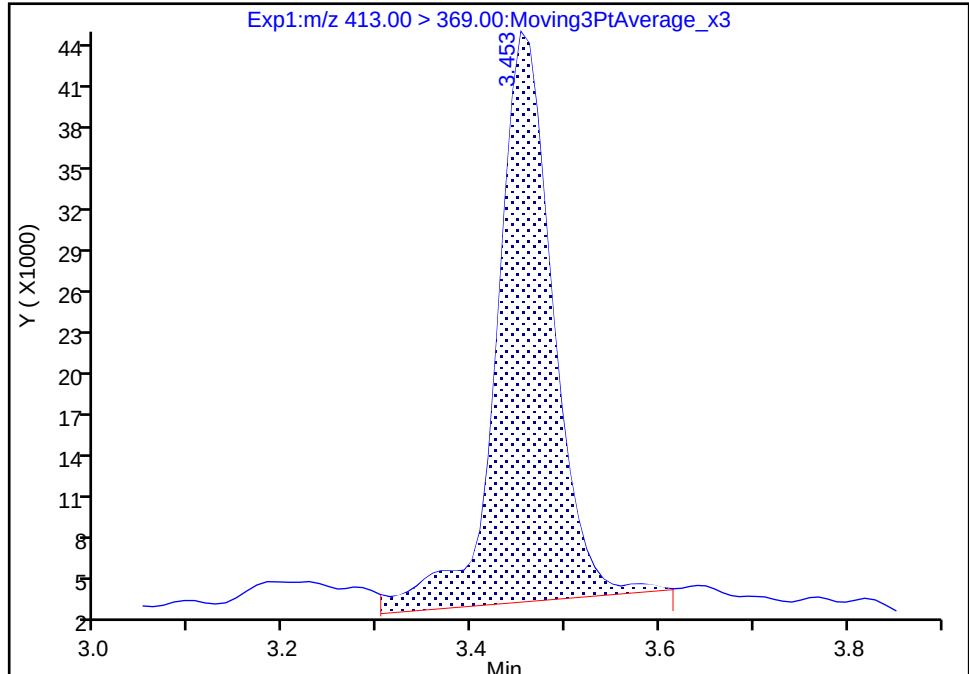
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

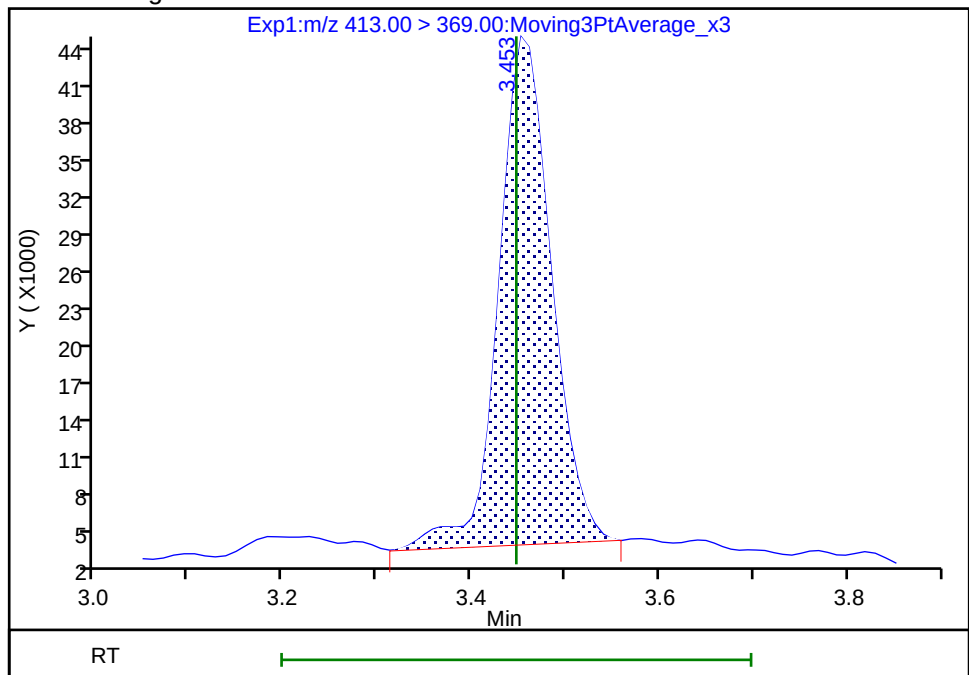
RT: 3.45
Area: 174515
Amount: 0.080035
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 159367
Amount: 0.073088
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:49:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

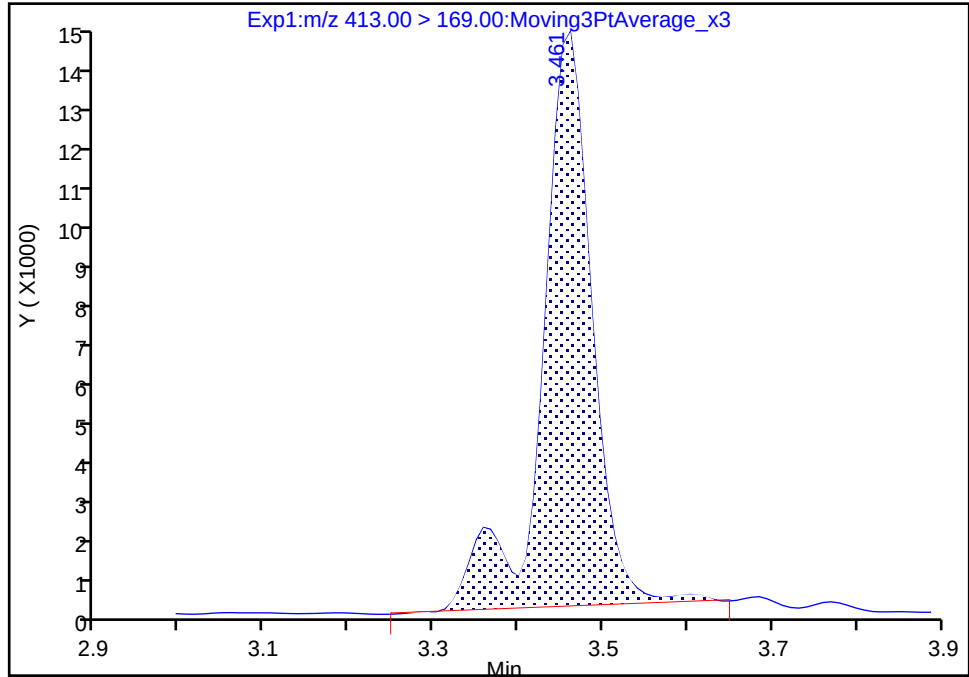
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

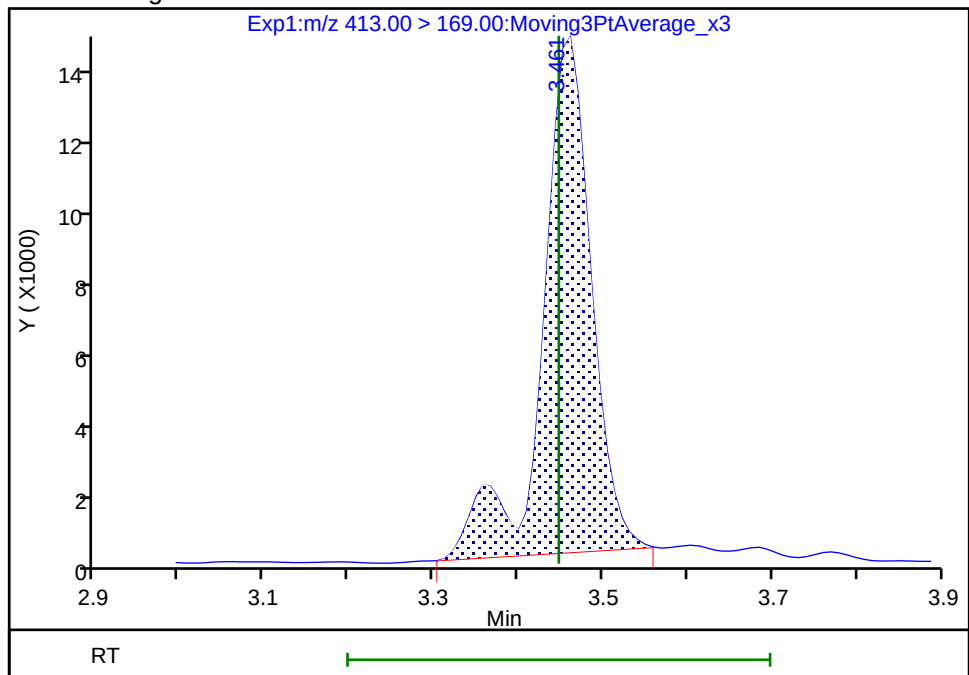
RT: 3.46
Area: 61770
Amount: 0.080035
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 59290
Amount: 0.073088
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:49:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d

Injection Date: 16-Dec-2022 13:06:50

Instrument ID: LC812

Lims ID: 460-270642-A-4-A

Lab Sample ID: 200-270642-4

Client ID: BCS-21-12_(10-10.5)P

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

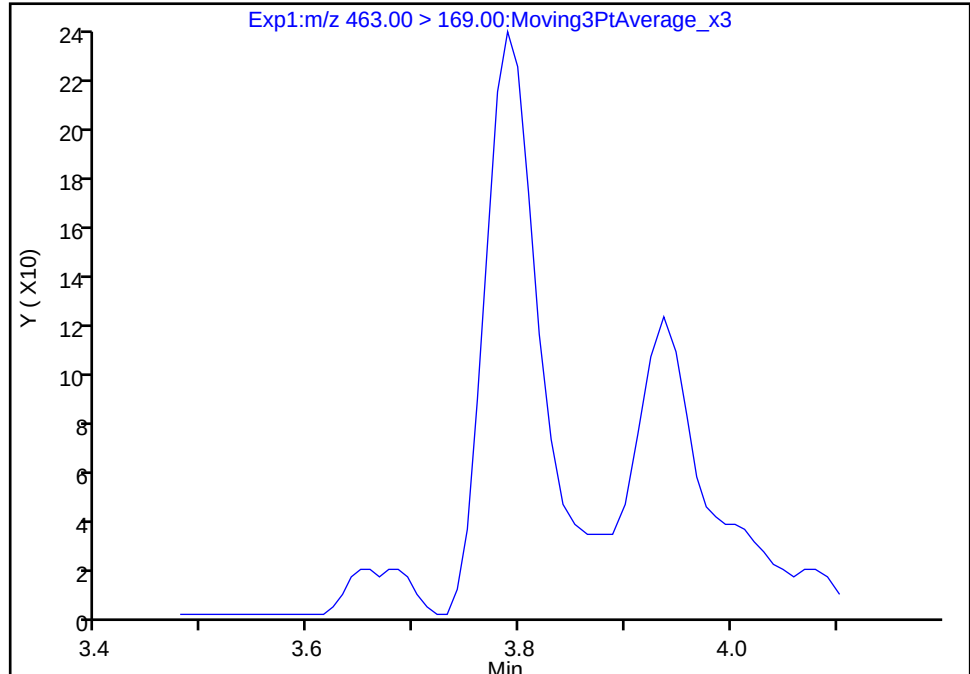
20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

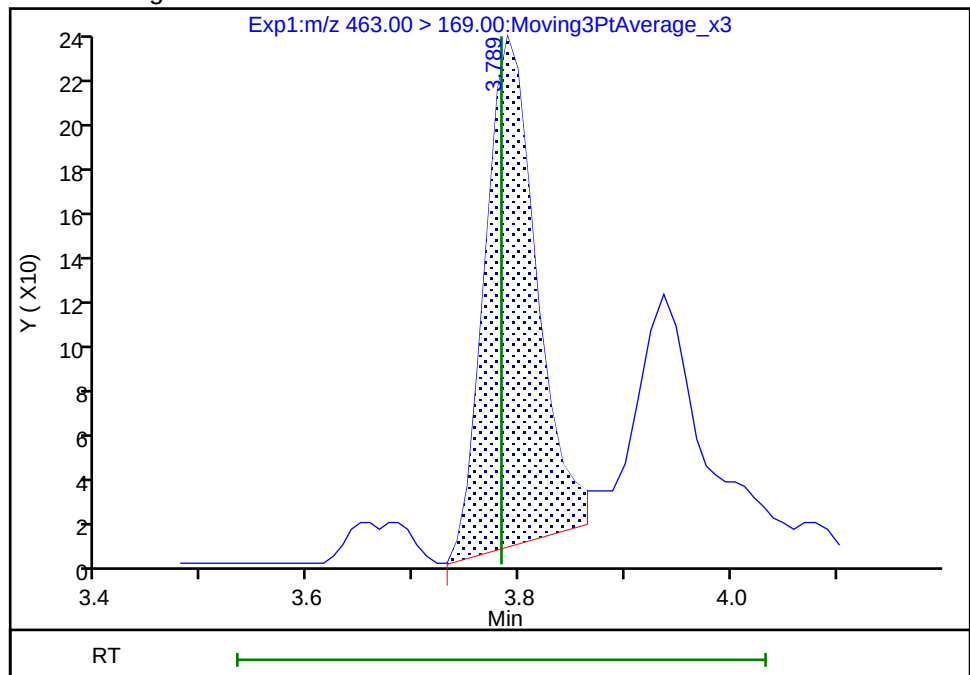
Not Detected

Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.79

Area: 762

Amount: 0.002378

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:50:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

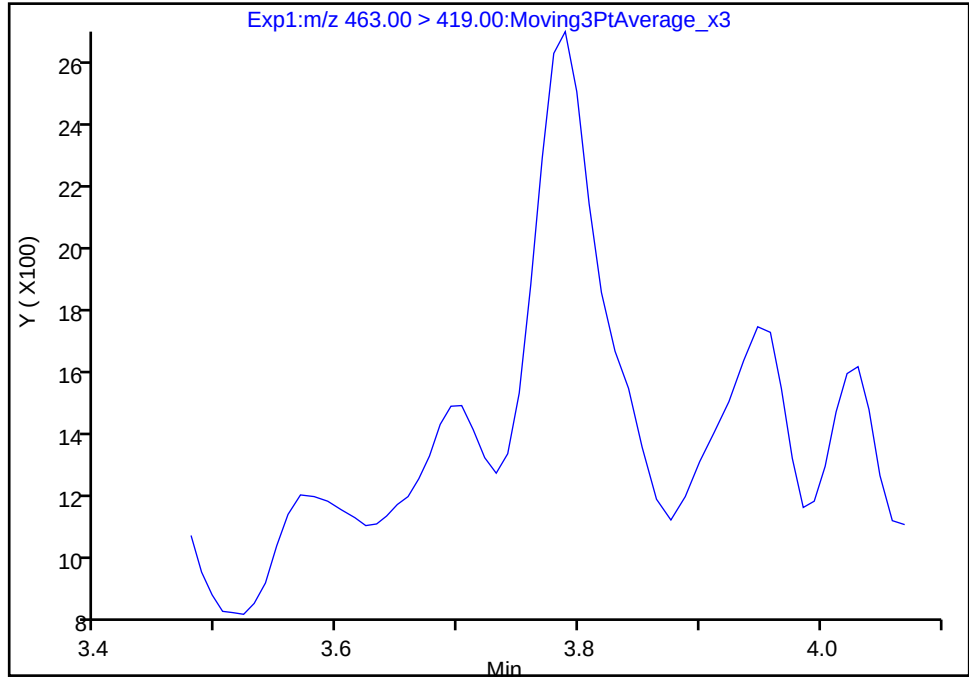
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

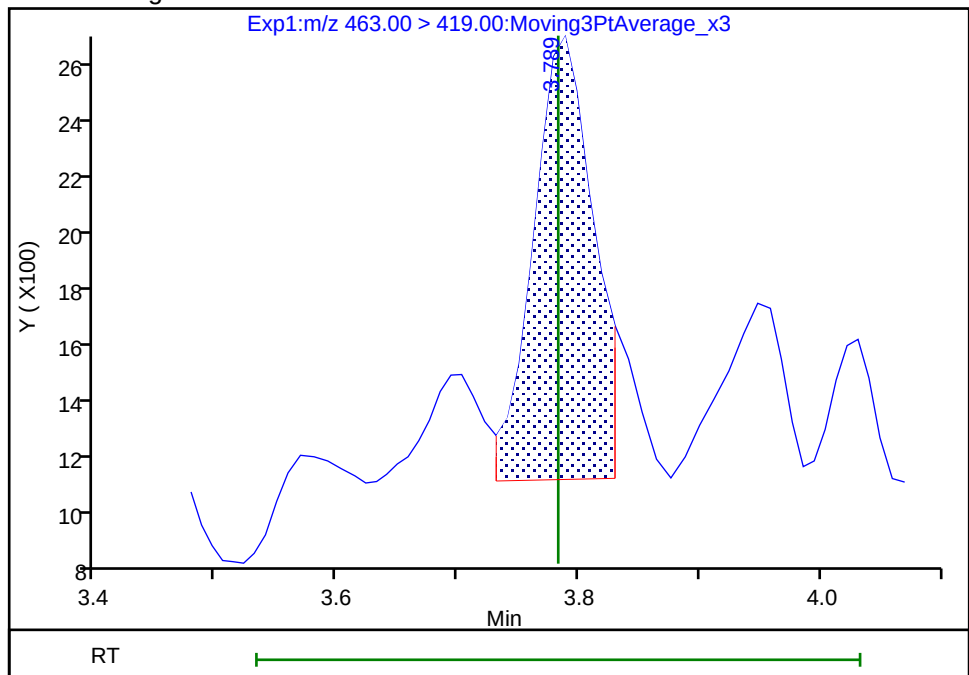
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.79
Area: 5074
Amount: 0.002378
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:50:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

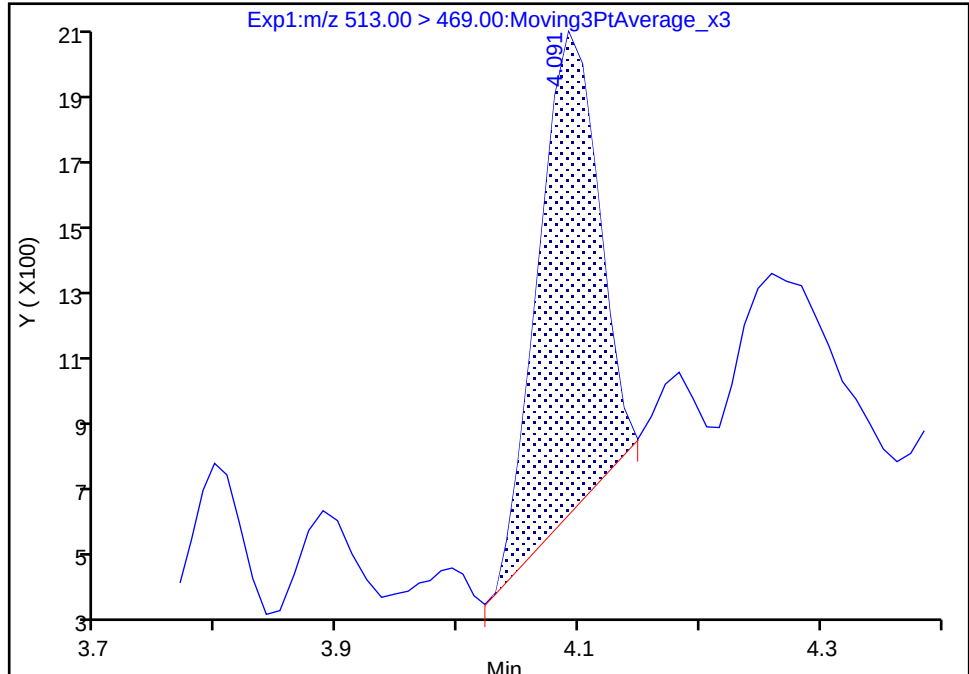
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

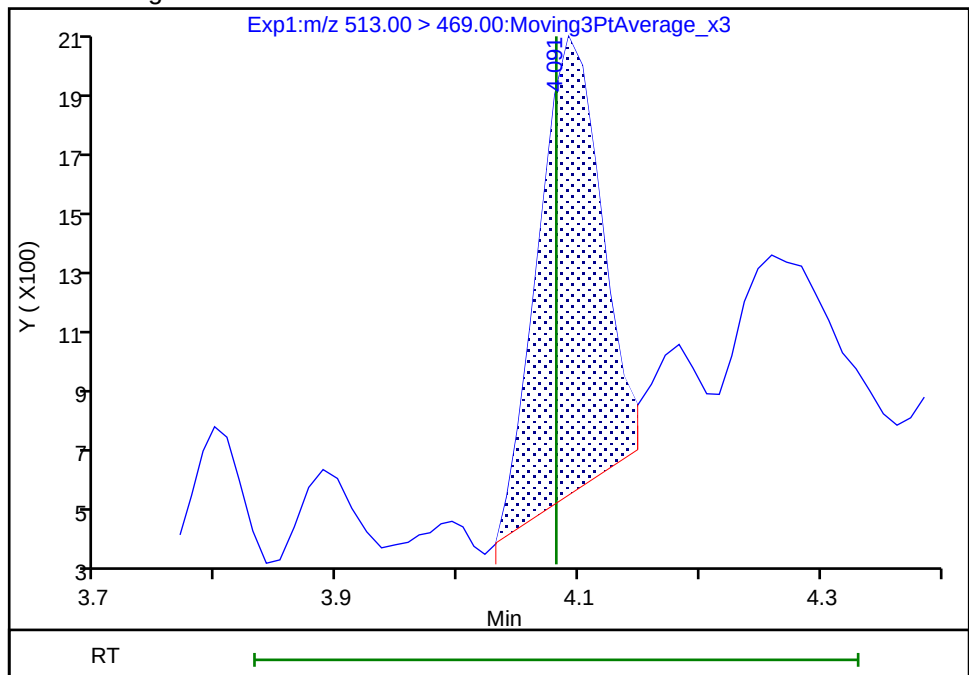
RT: 4.09
Area: 4882
Amount: 0.002279
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 5399
Amount: 0.002521
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:50:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

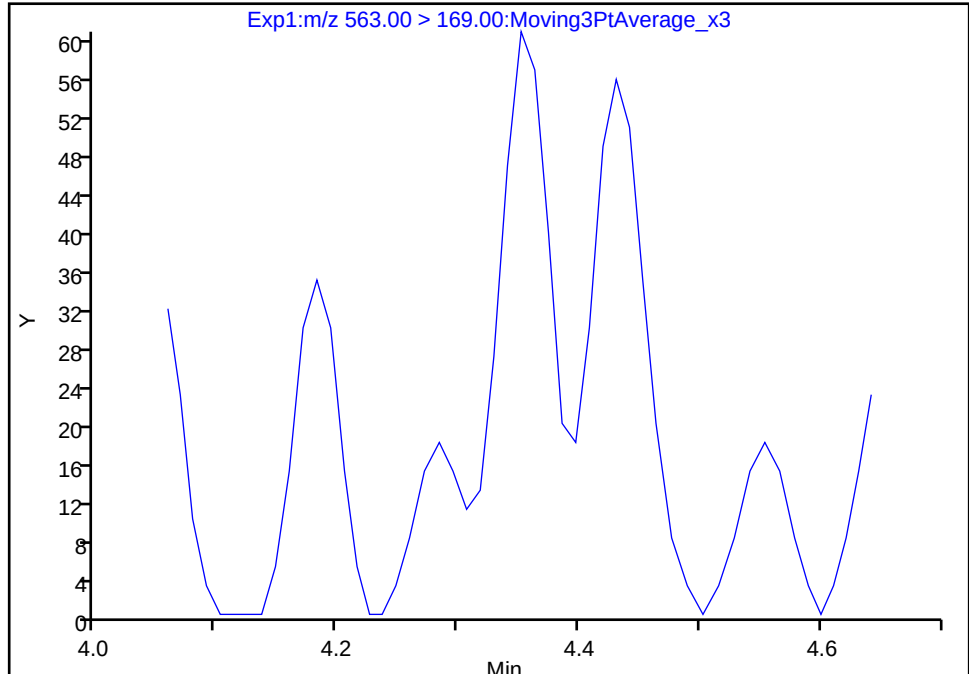
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

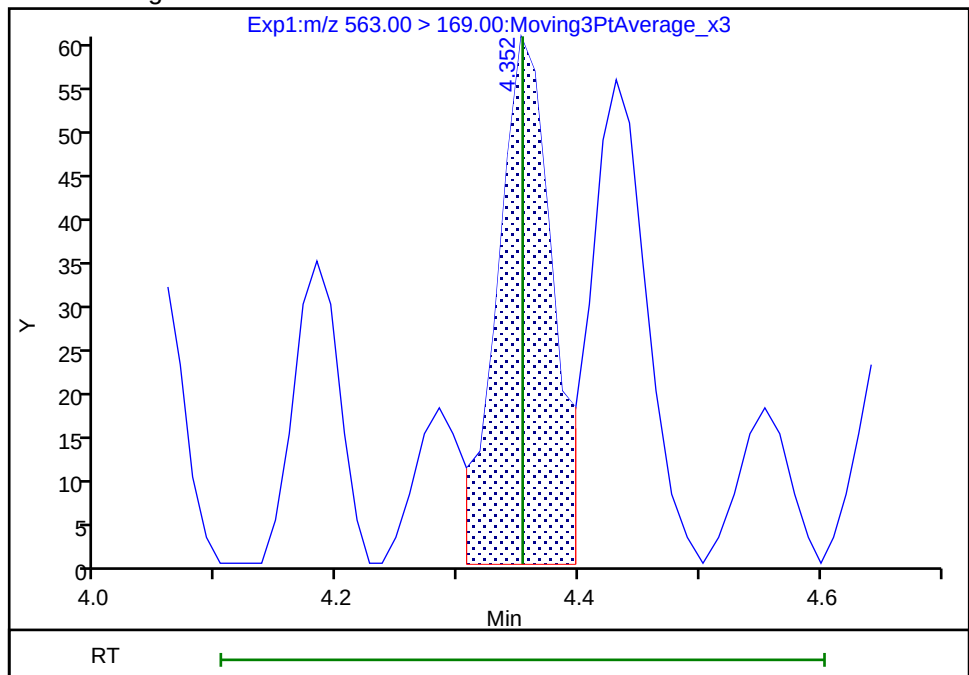
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 189
Amount: 0.001973
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:51:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

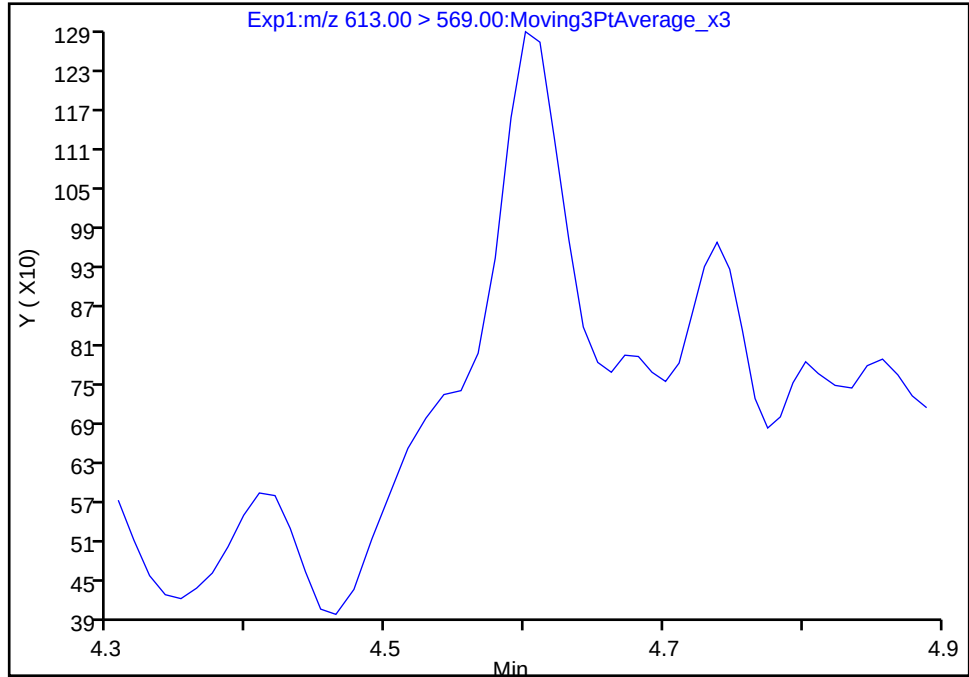
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

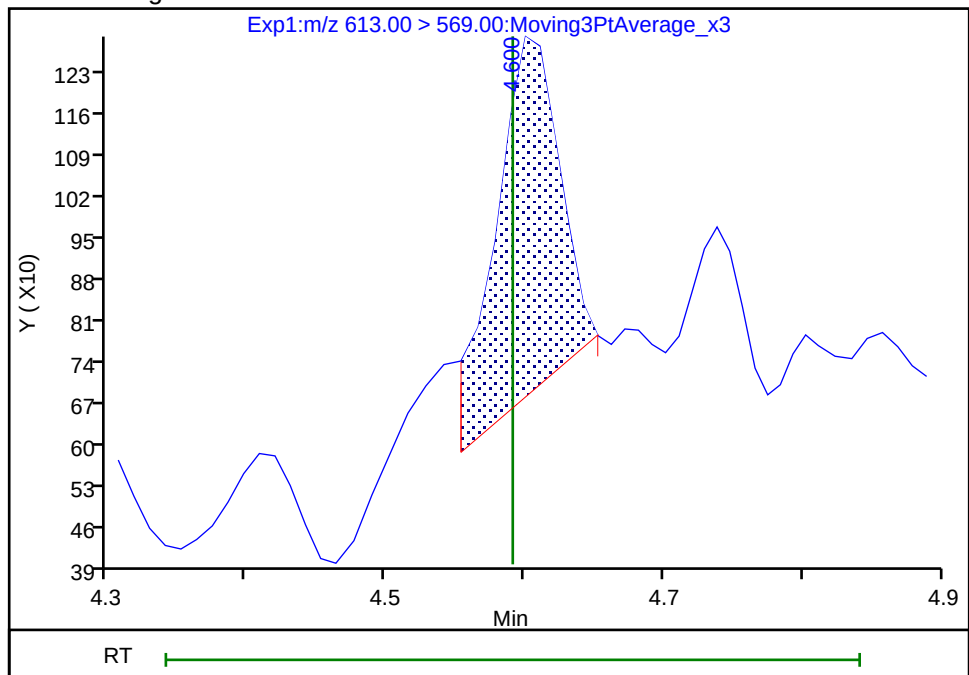
Signal: 1

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.60
Area: 1914
Amount: 0.000965
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:51:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

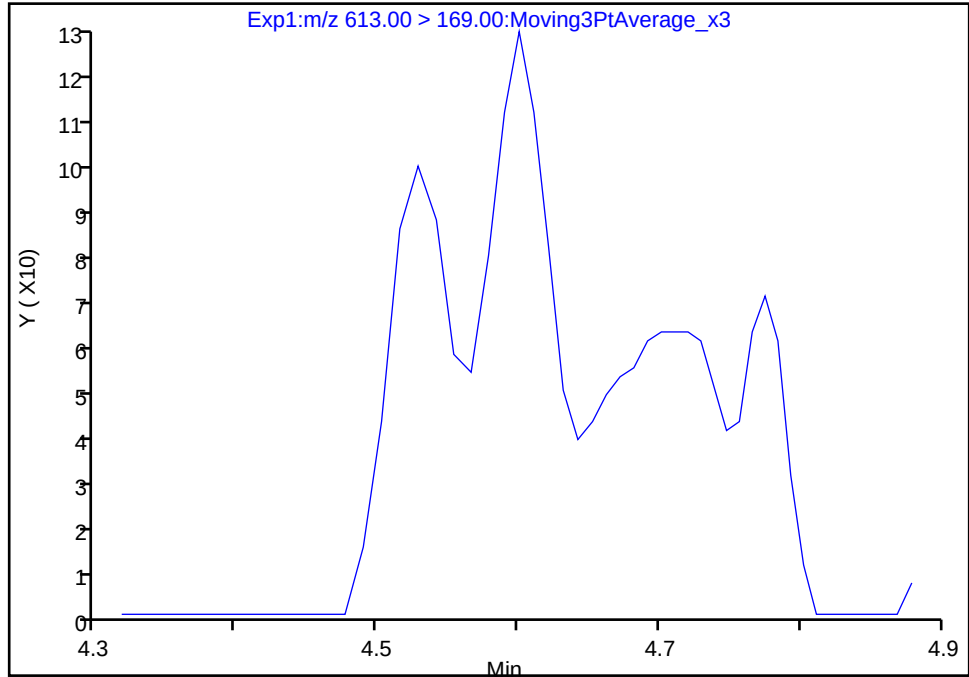
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

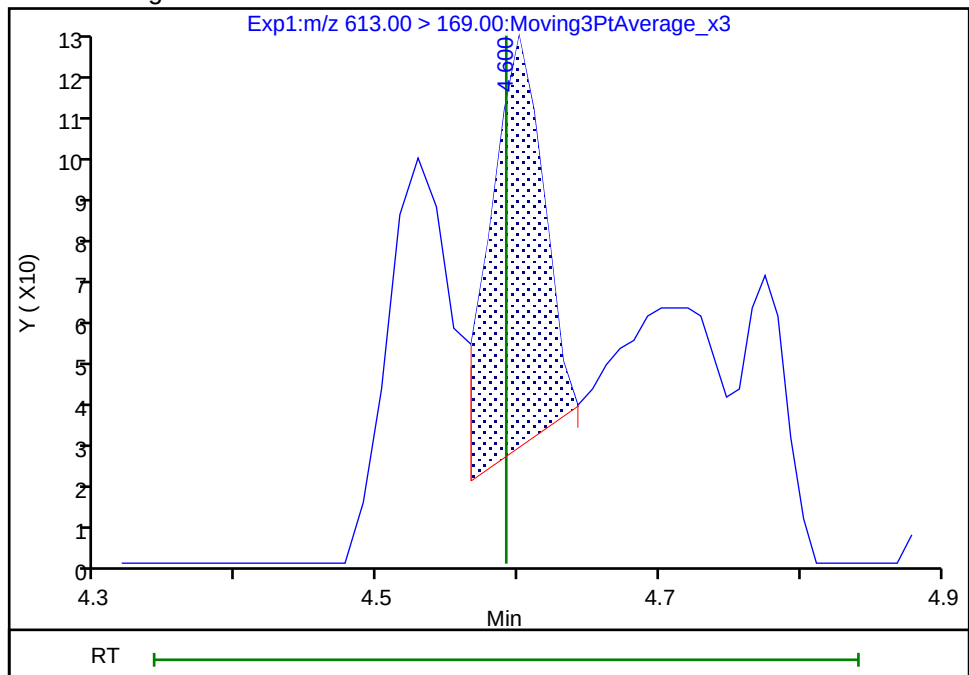
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 261
Amount: 0.000965
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:51:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

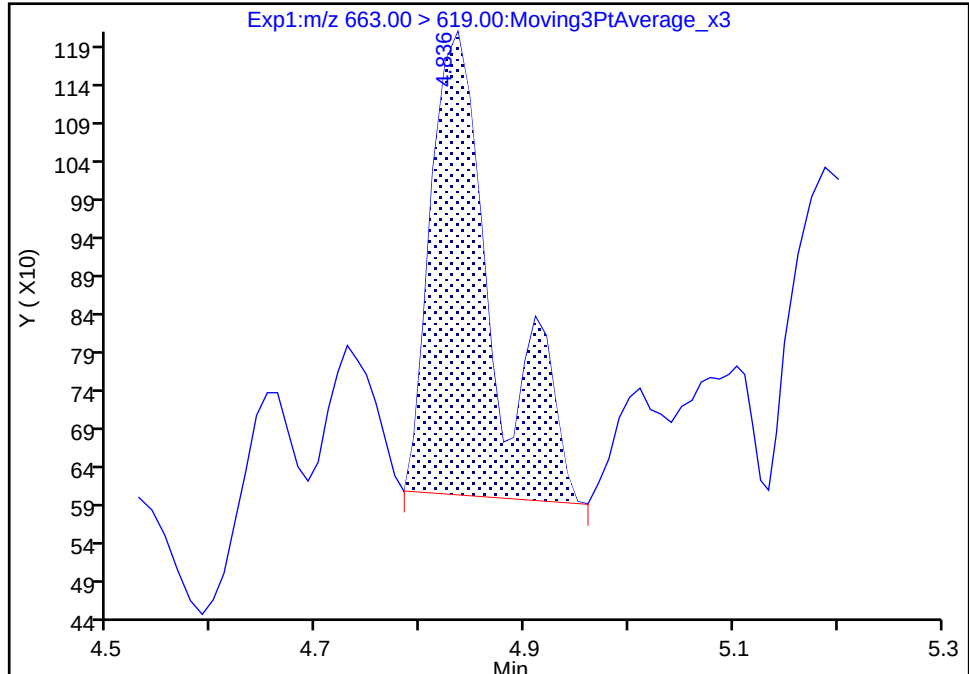
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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: 1

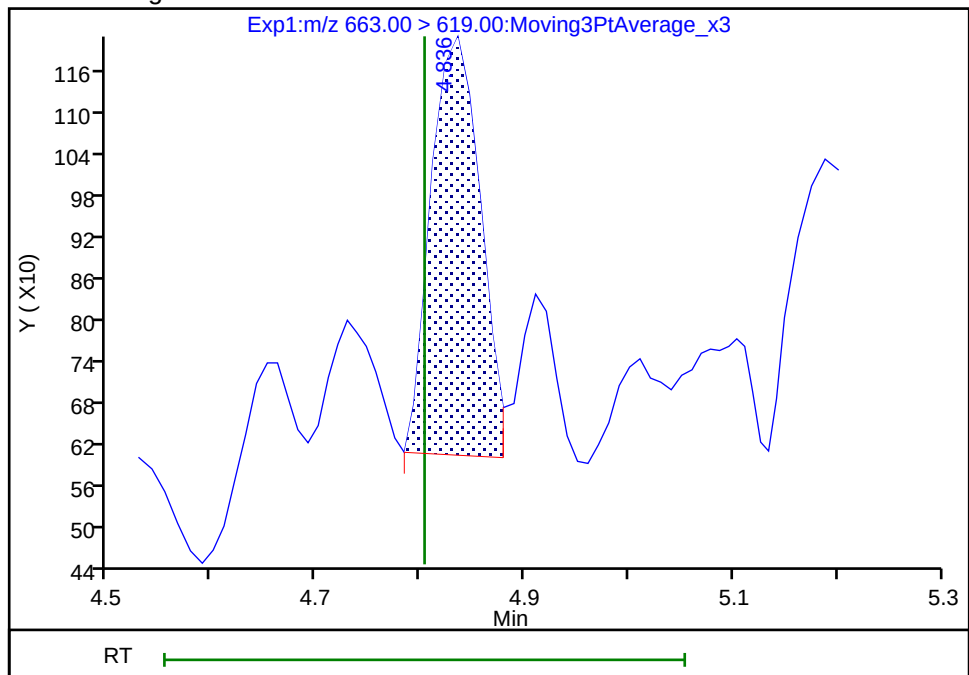
RT: 4.84
Area: 2562
Amount: 0.001351
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 1996
Amount: 0.001053
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:52:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

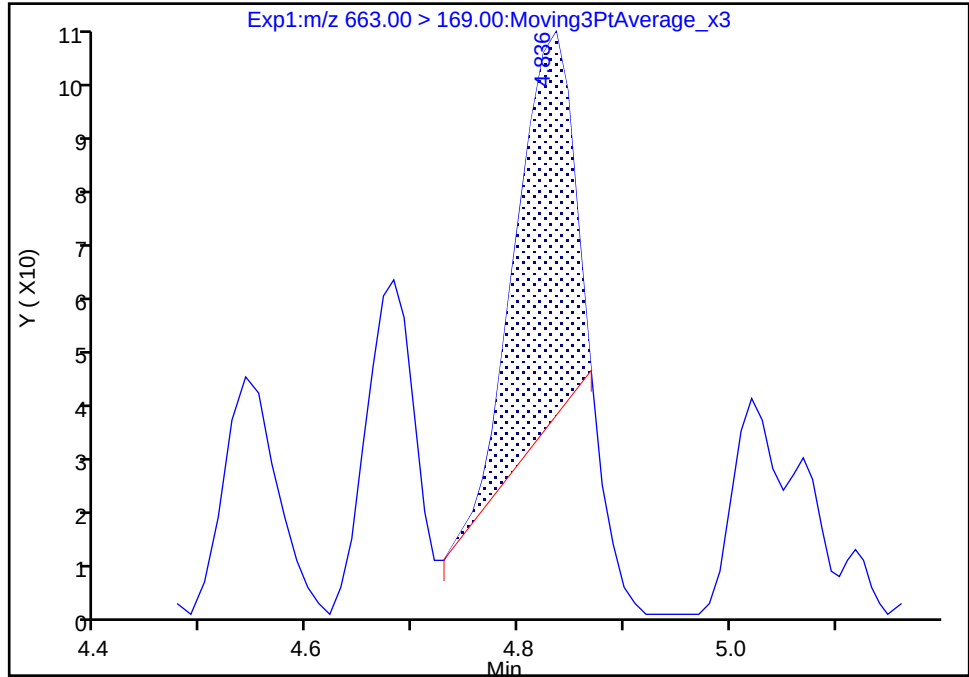
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

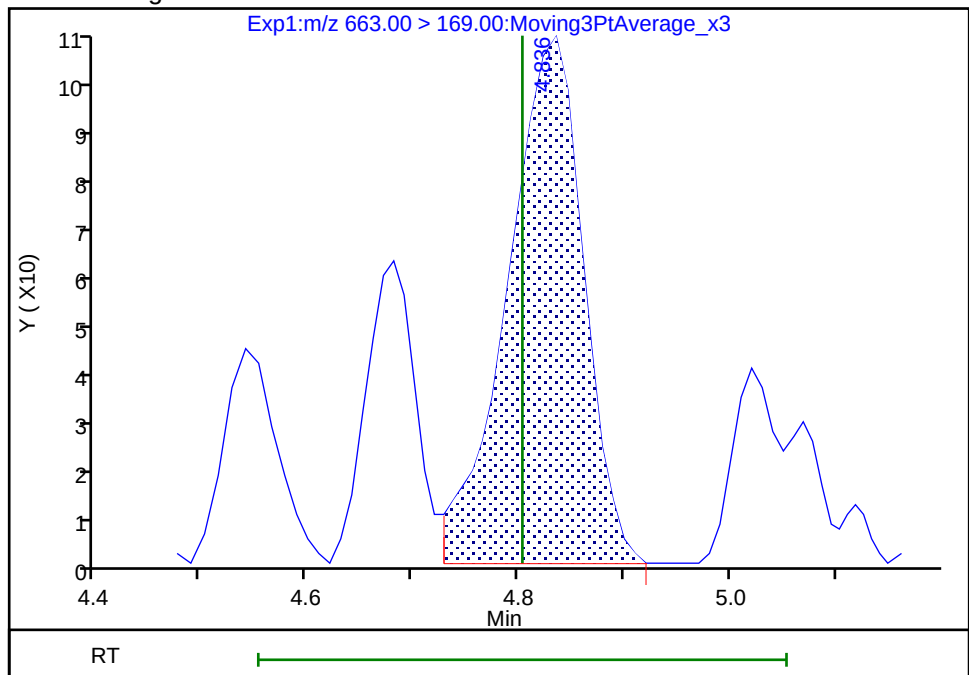
RT: 4.84
Area: 268
Amount: 0.001351
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 539
Amount: 0.001053
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:52:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

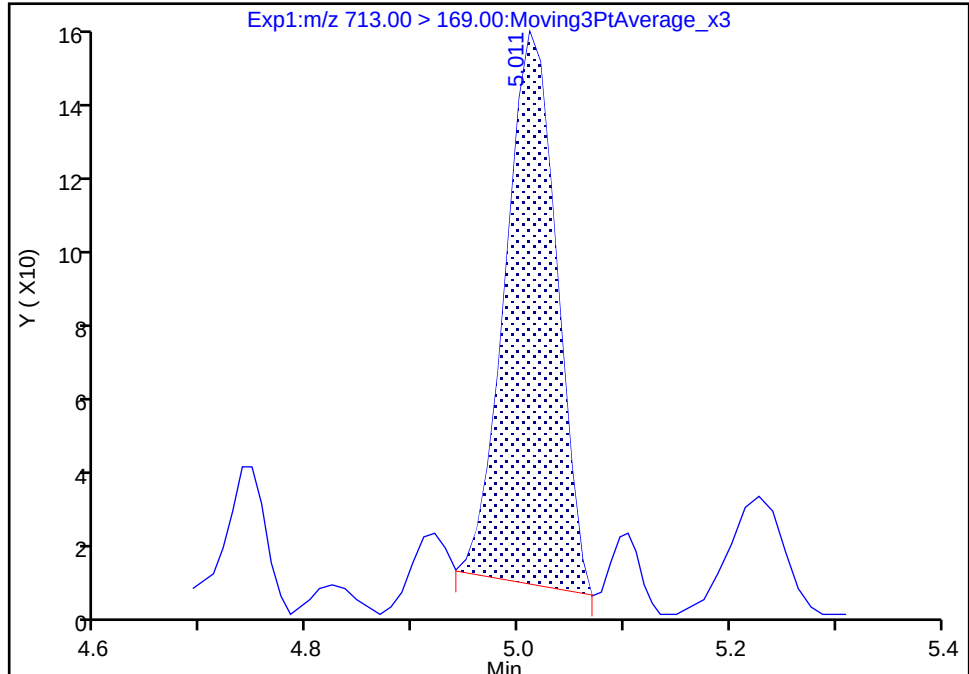
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

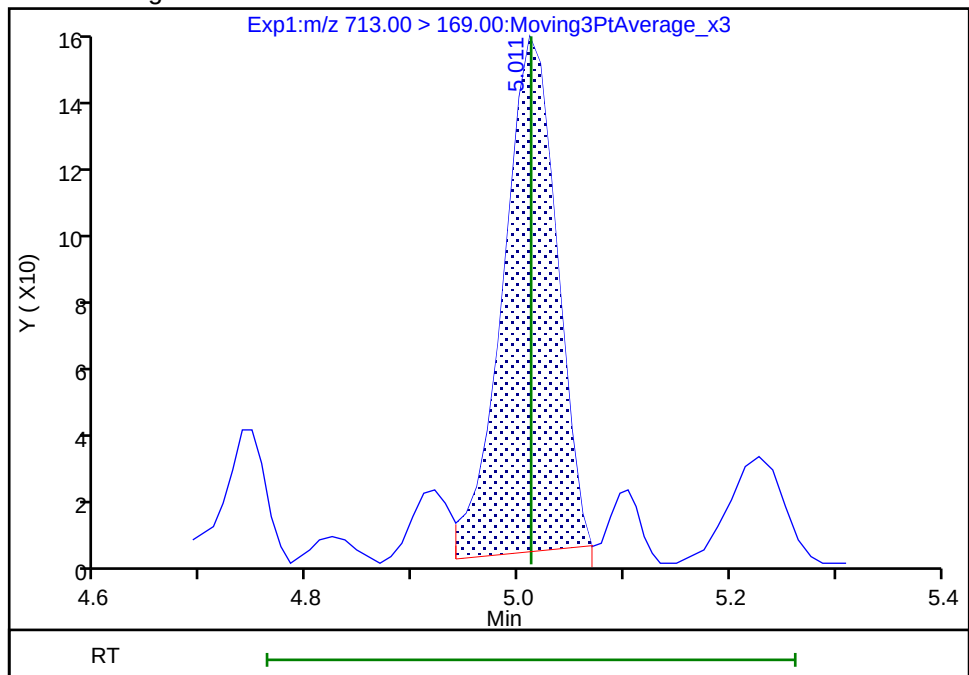
RT: 5.01
Area: 505
Amount: 0.002373
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 547
Amount: 0.002571
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:52:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

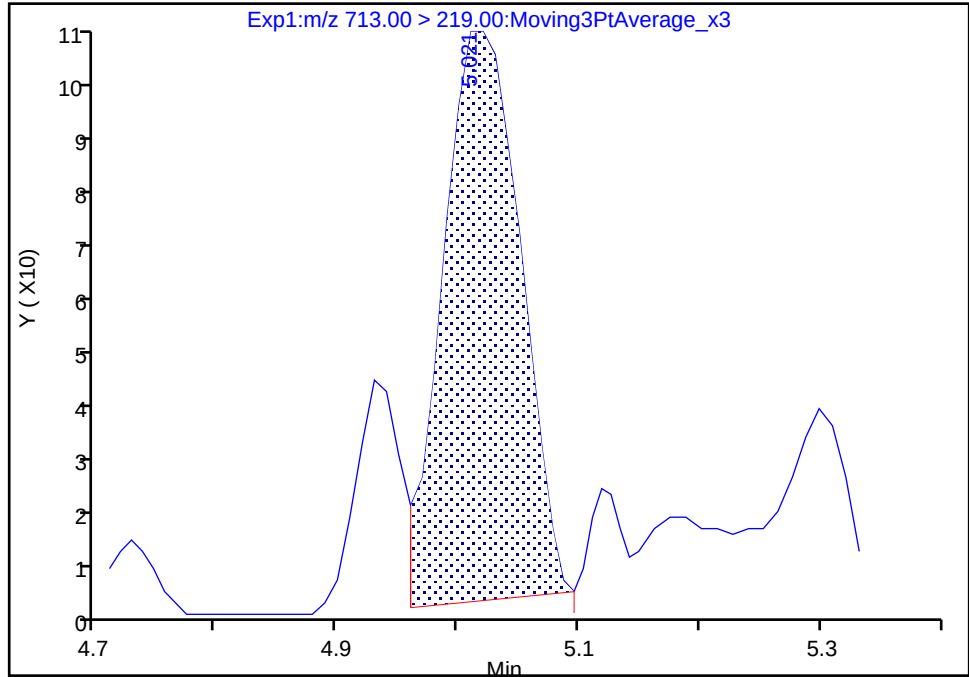
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

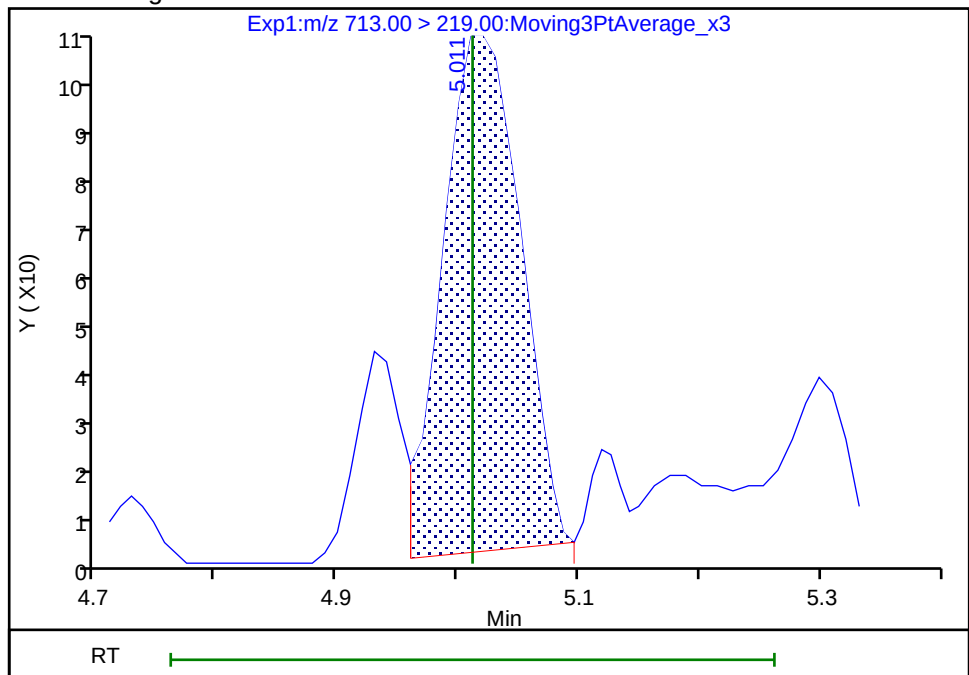
RT: 5.02
Area: 445
Amount: 0.002373
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 445
Amount: 0.002571
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:52:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

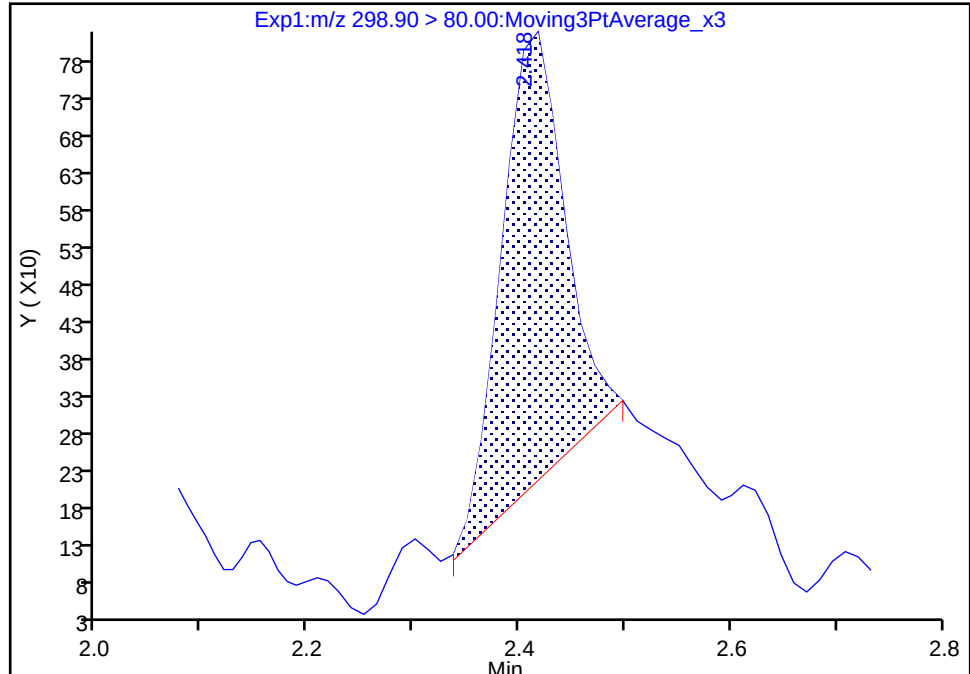
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

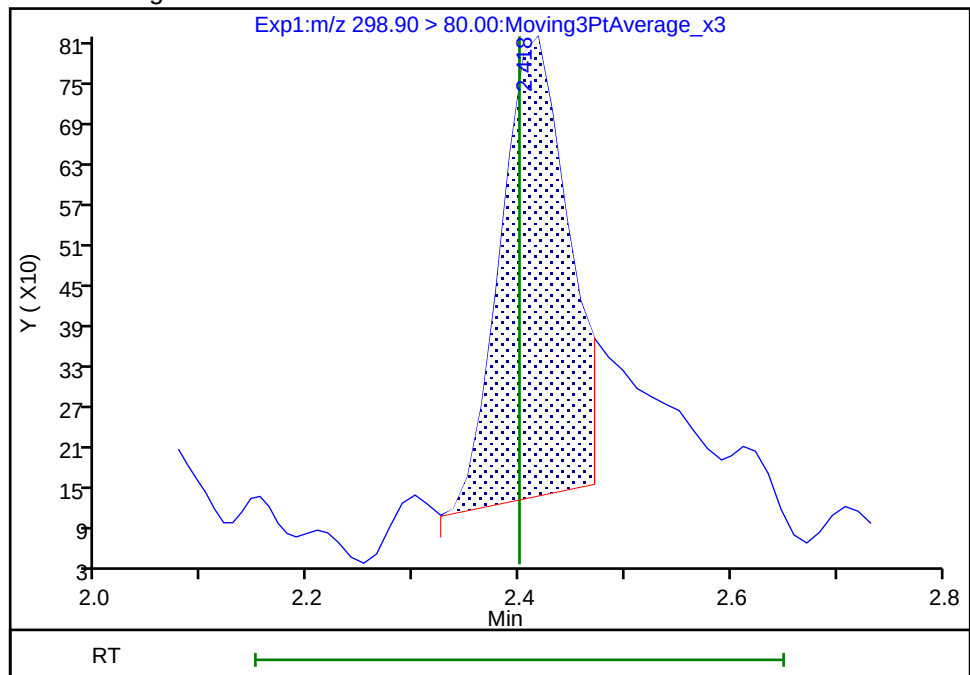
RT: 2.42
Area: 2535
Amount: 0.001411
Amount Units: ng/ml

Processing Integration Results



RT: 2.42
Area: 2997
Amount: 0.001668
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:48:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

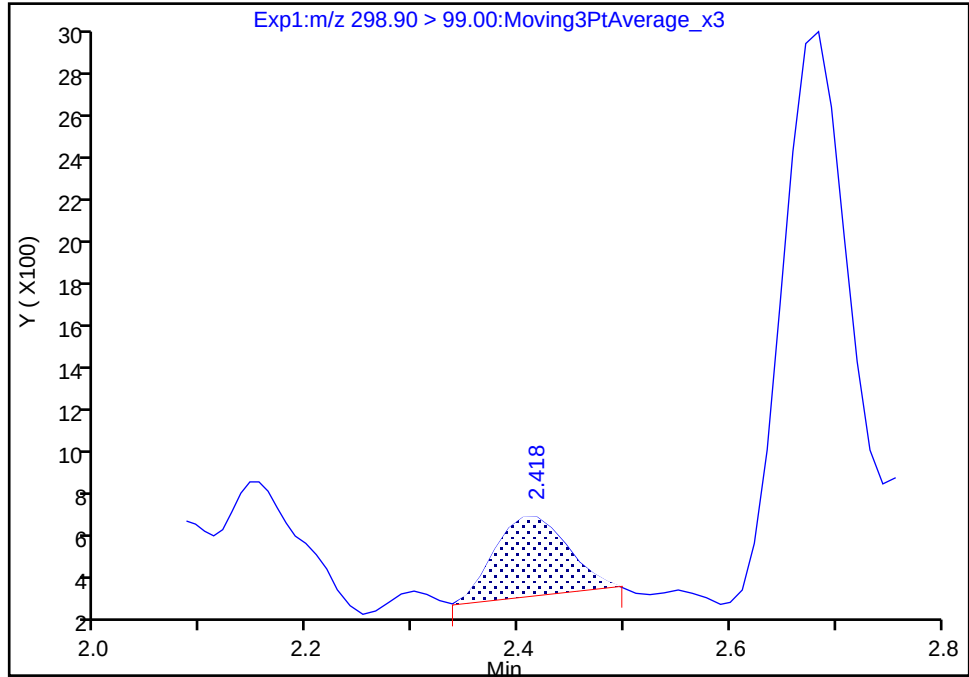
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

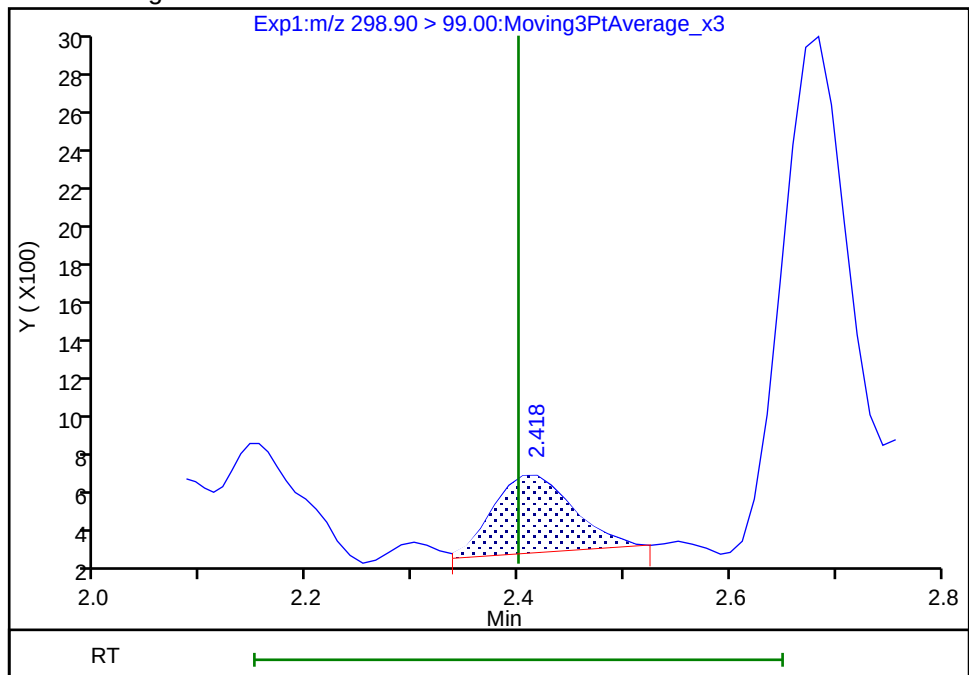
RT: 2.42
Area: 1736
Amount: 0.001411
Amount Units: ng/ml

Processing Integration Results



RT: 2.42
Area: 2058
Amount: 0.001668
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:48:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

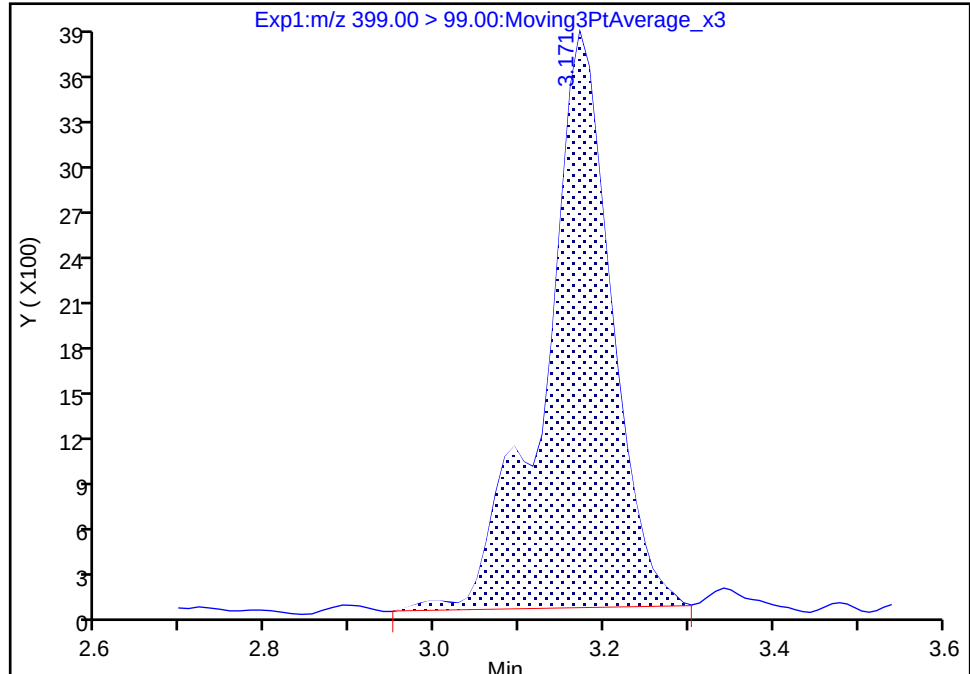
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

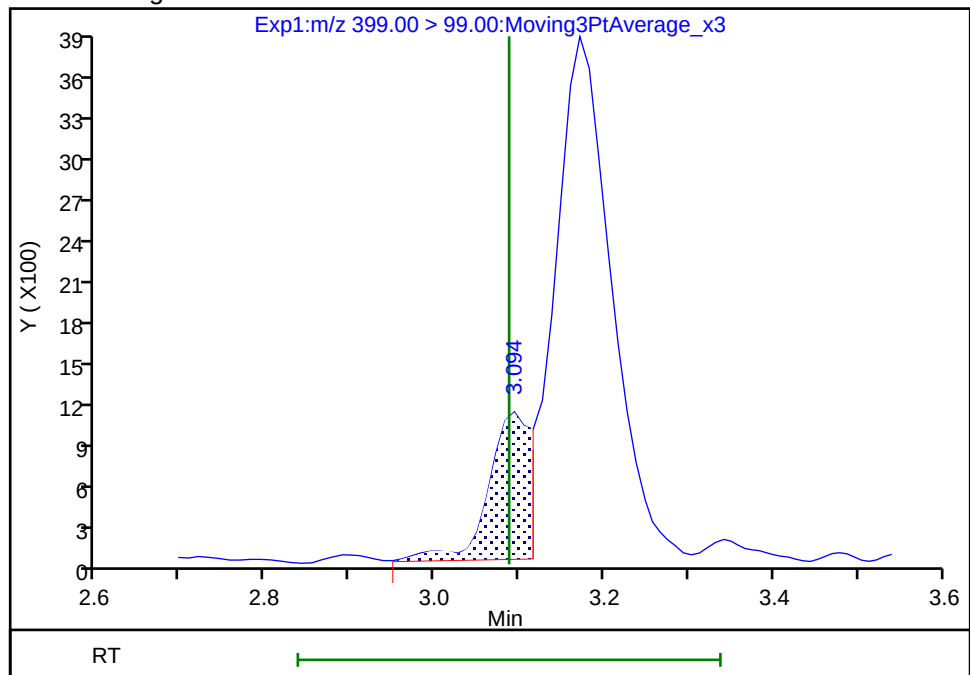
RT: 3.17
Area: 20734
Amount: 0.011462
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3497
Amount: 0.011462
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:48:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

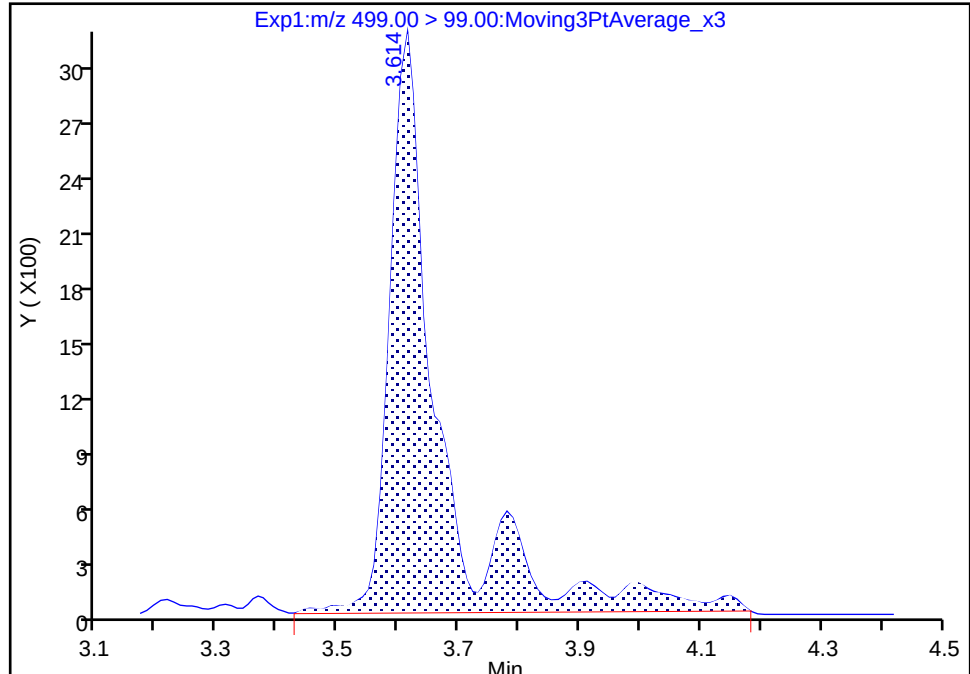
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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: 2

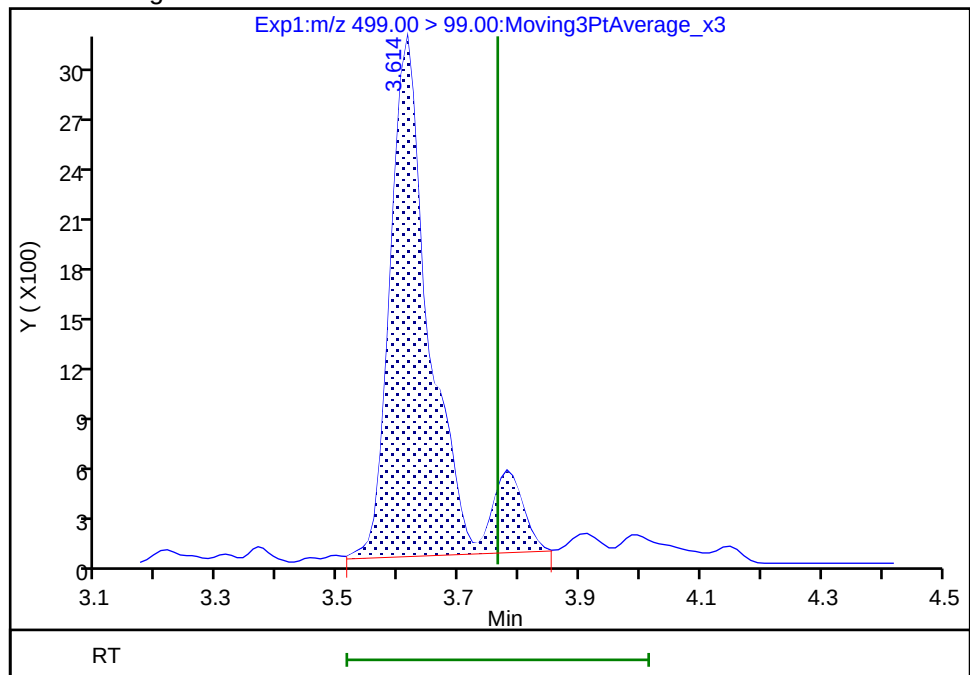
RT: 3.61
Area: 17773
Amount: 0.020981
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 14977
Amount: 0.012808
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:50:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

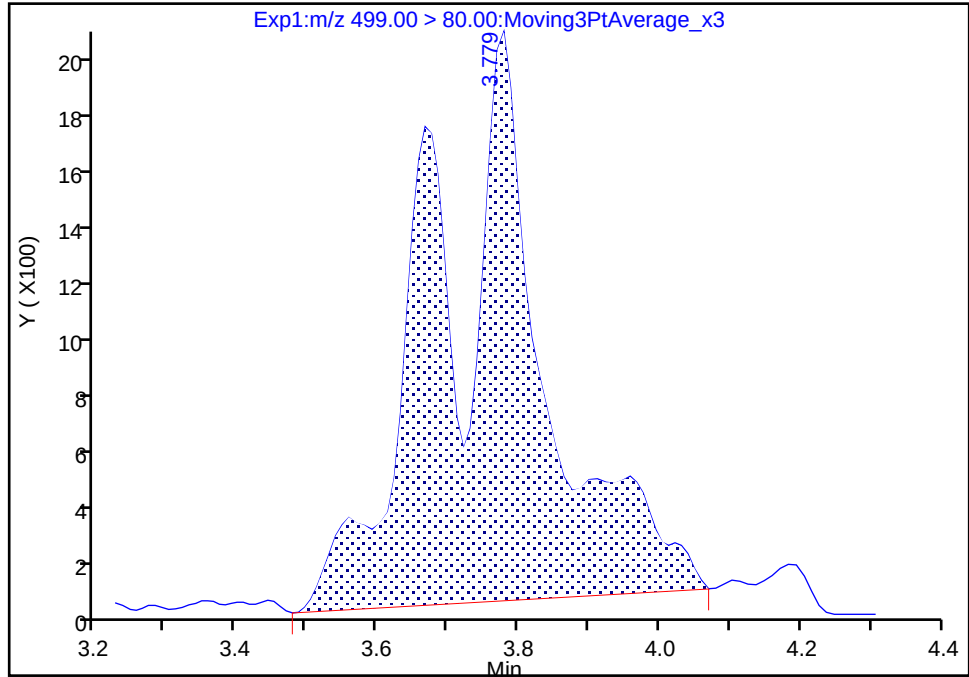
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

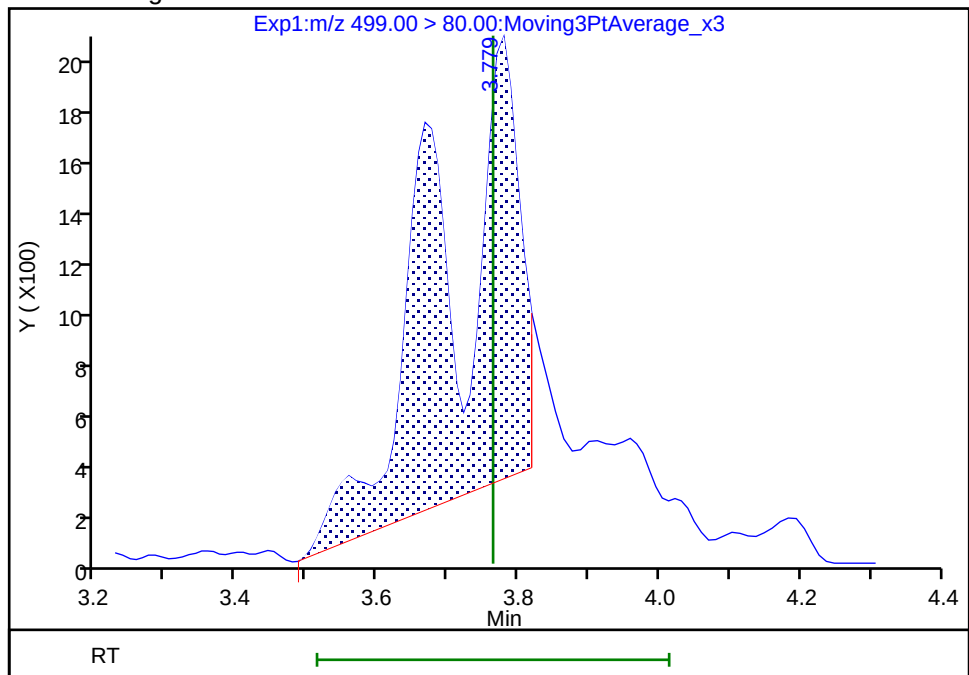
RT: 3.78
Area: 21560
Amount: 0.020981
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 13162
Amount: 0.012808
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:50:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

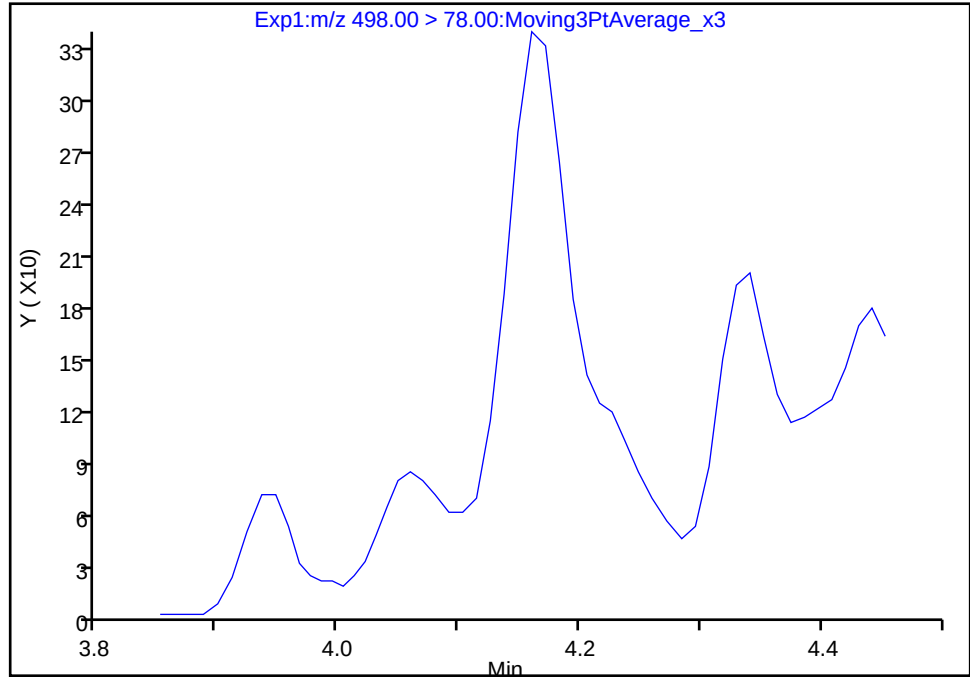
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

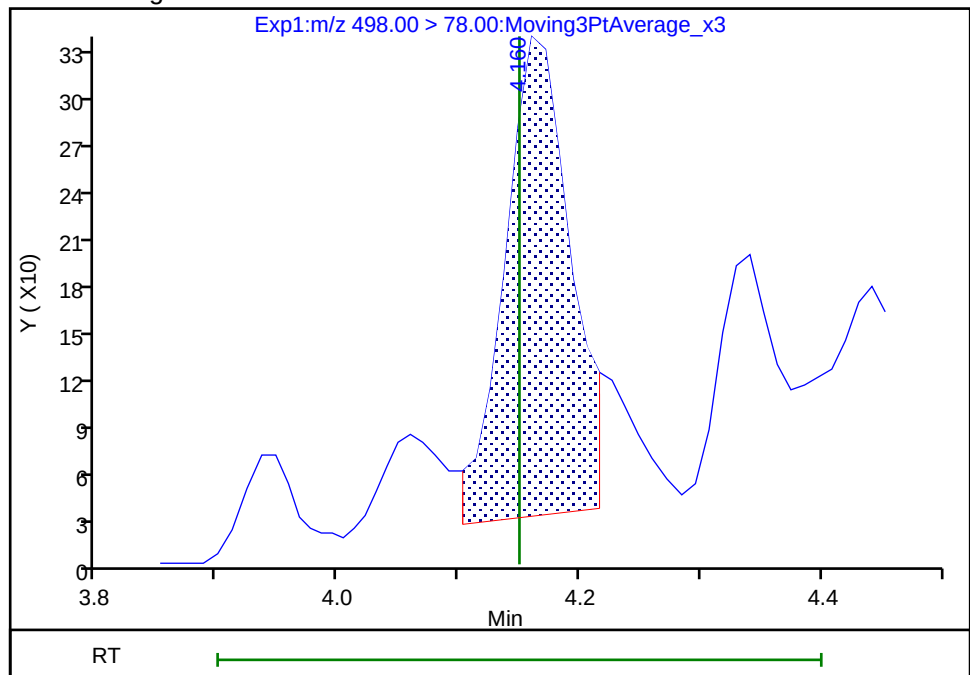
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 1124
Amount: 0.000719
Amount Units: ng/mlReviewer: nampitakw, 19-Dec-2022 09:51:14
Audit Action: Manually IntegratedAudit Reason: Incomplete Integration
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Eurofins Burlington

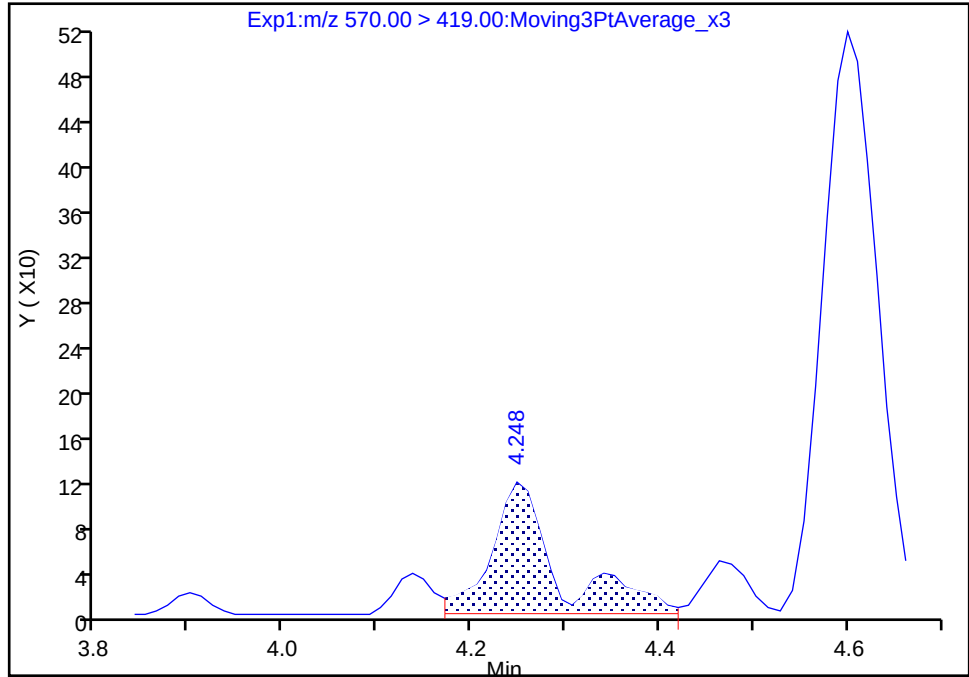
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

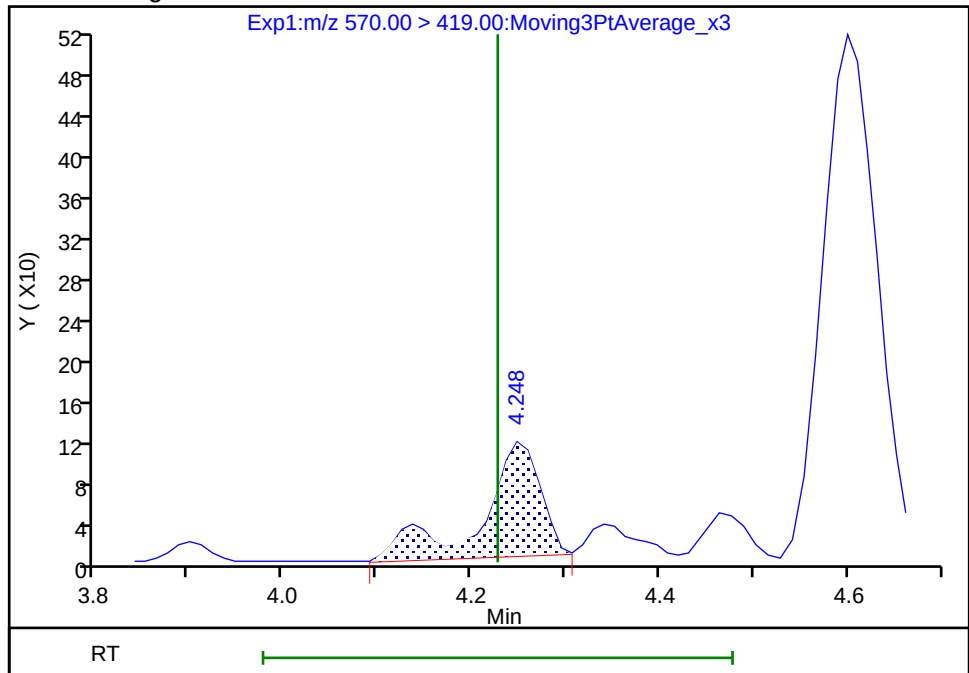
RT: 4.25
Area: 569
Amount: -0.009961
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 474
Amount: -0.010239
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:51:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

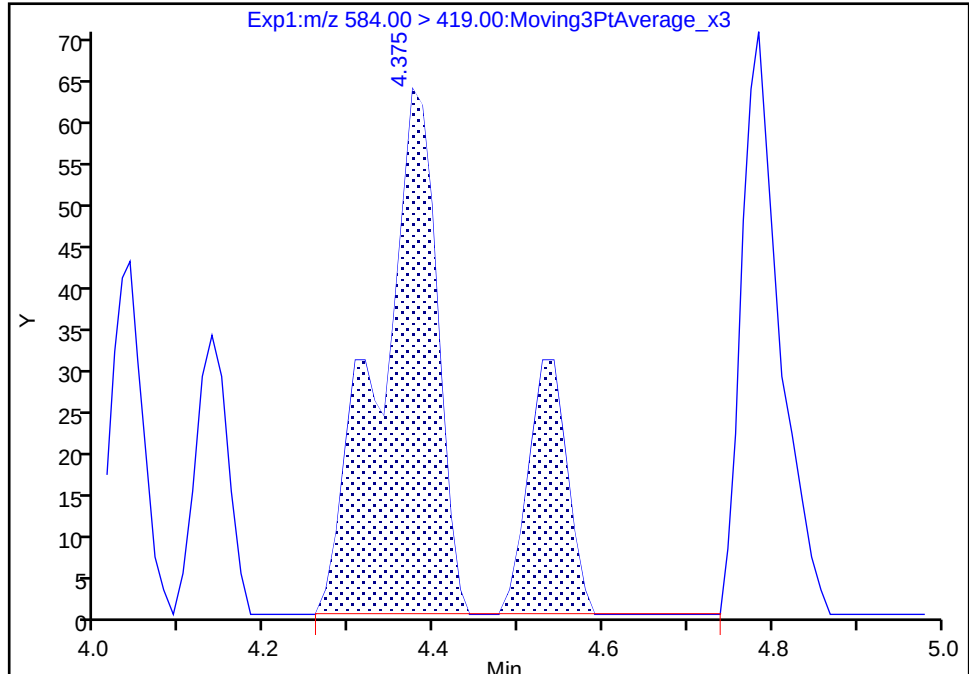
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection 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

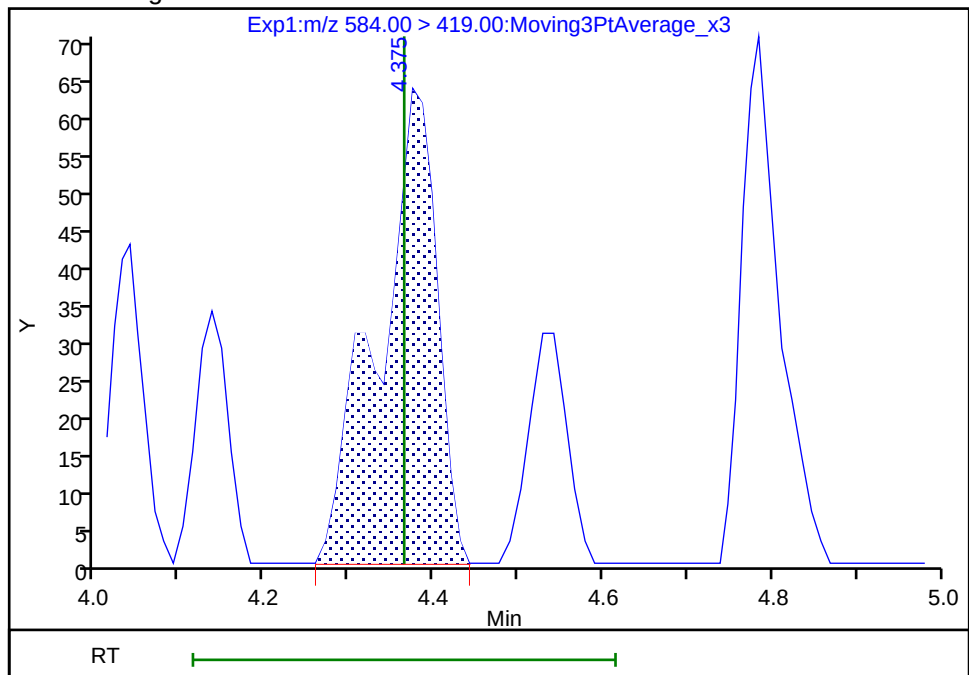
RT: 4.37
Area: 405
Amount: 0.001166
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 306
Amount: 0.000881
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:51:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d

Injection Date: 16-Dec-2022 13:06:50

Instrument ID: LC812

Lims ID: 460-270642-A-4-A

Lab Sample ID: 200-270642-4

Client ID: BCS-21-12_(10-10.5)P

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)

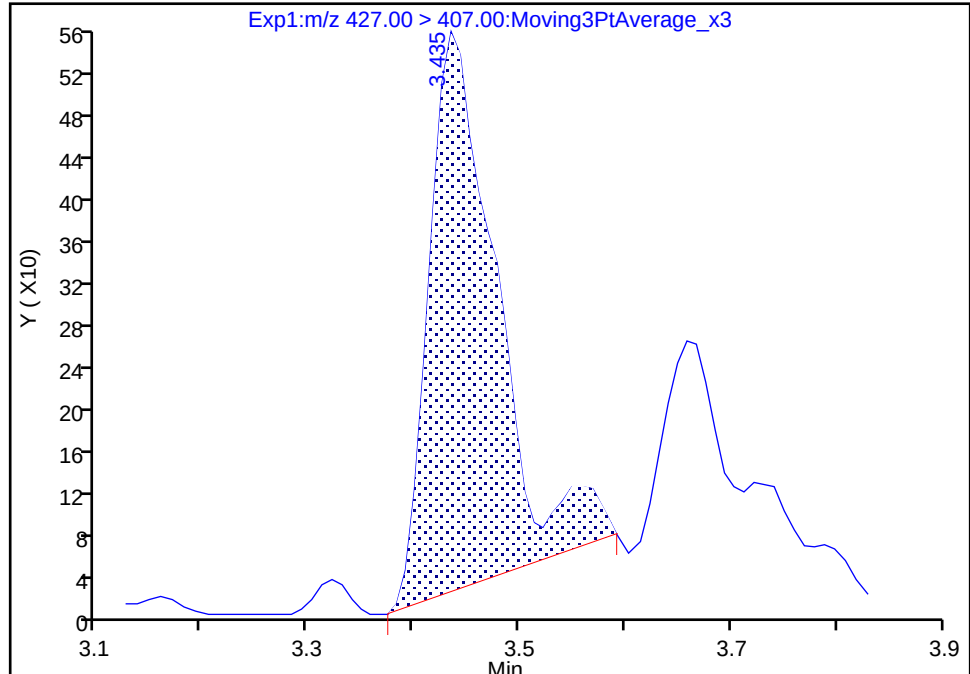
Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

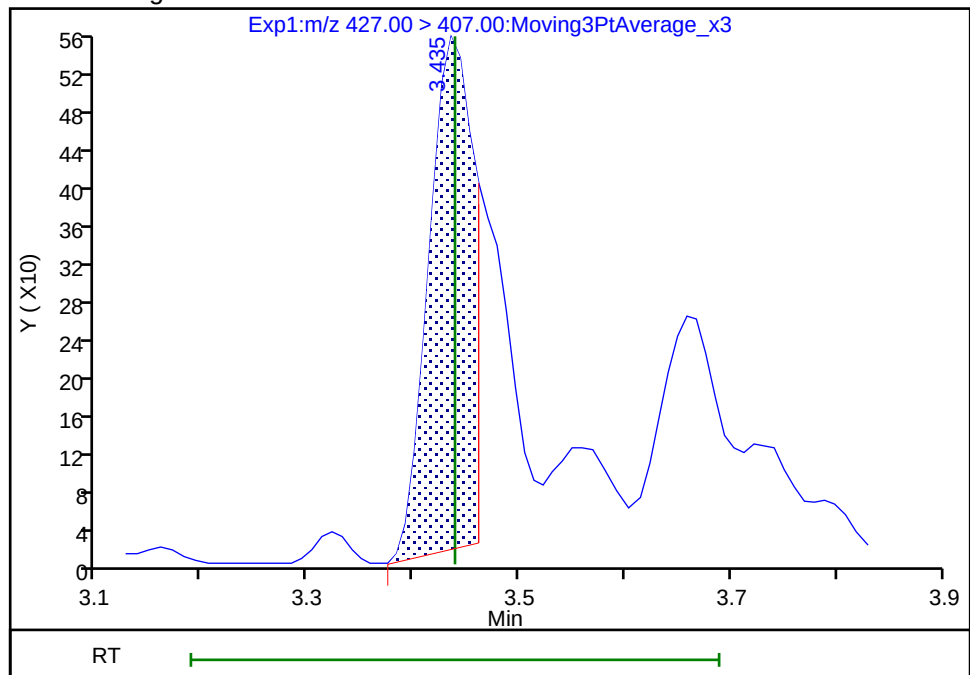
RT: 3.44
Area: 2354
Amount: -0.006296
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1520
Amount: -0.008272
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:49:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

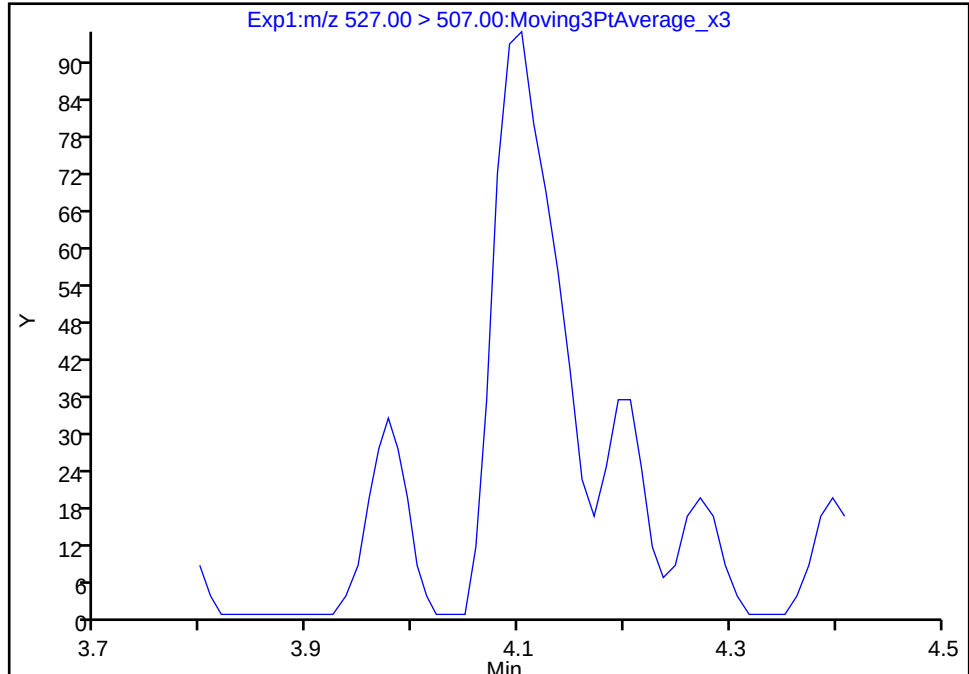
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d
Injection Date: 16-Dec-2022 13:06:50 Instrument ID: LC812
Lims ID: 460-270642-A-4-A Lab Sample ID: 200-270642-4
Client ID: BCS-21-12_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

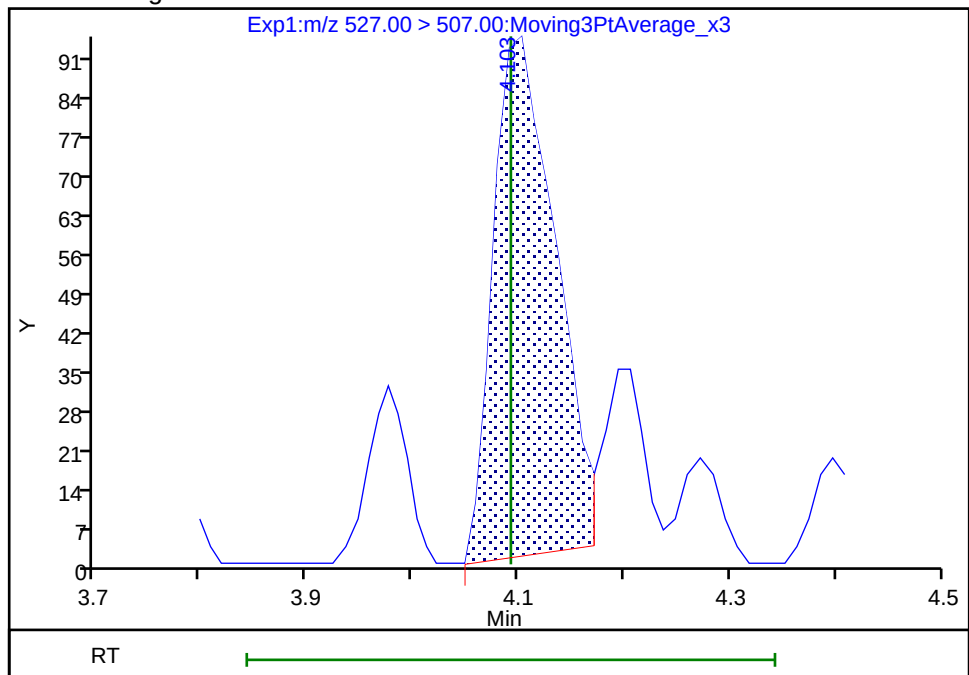
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.10
Area: 381
Amount: 0.000970
Amount Units: ng/ml

Eurofins Burlington

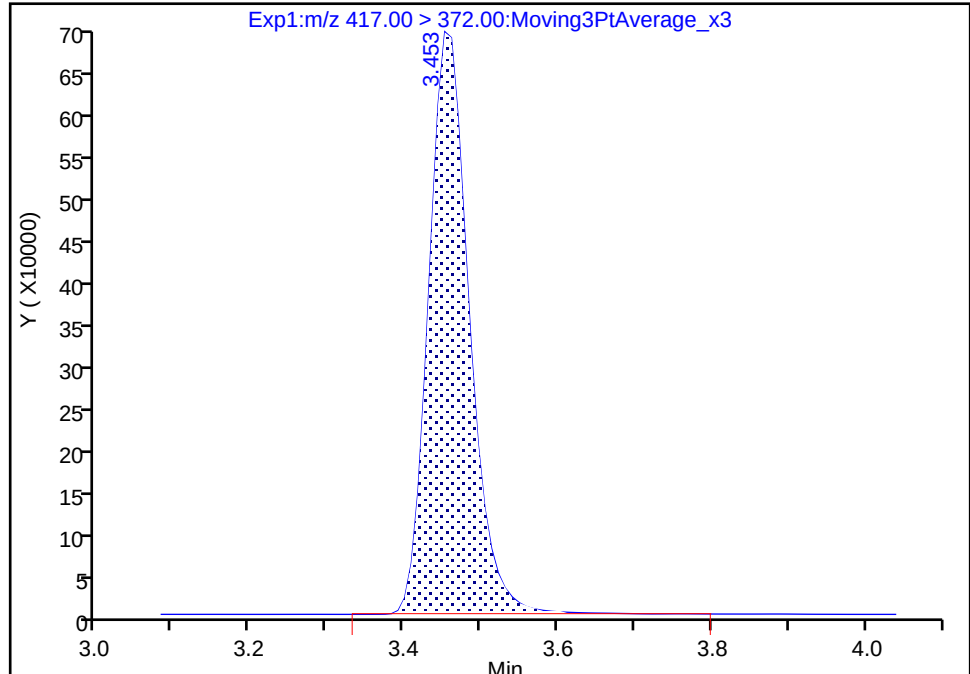
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

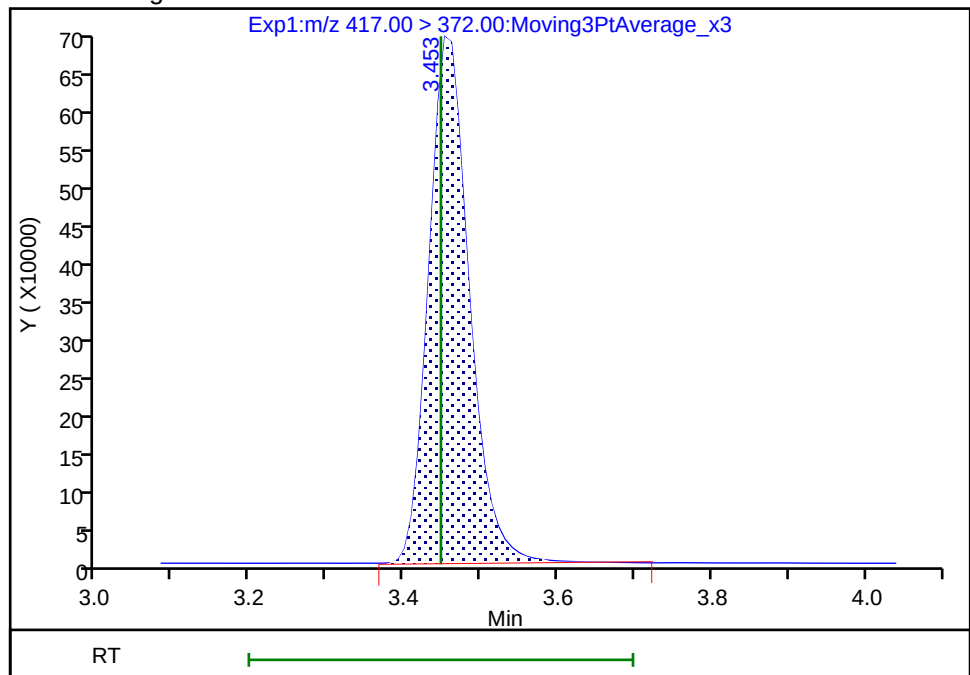
RT: 3.45
Area: 2552891
Amount: 1.182889
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2549582
Amount: 1.181355
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:47:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

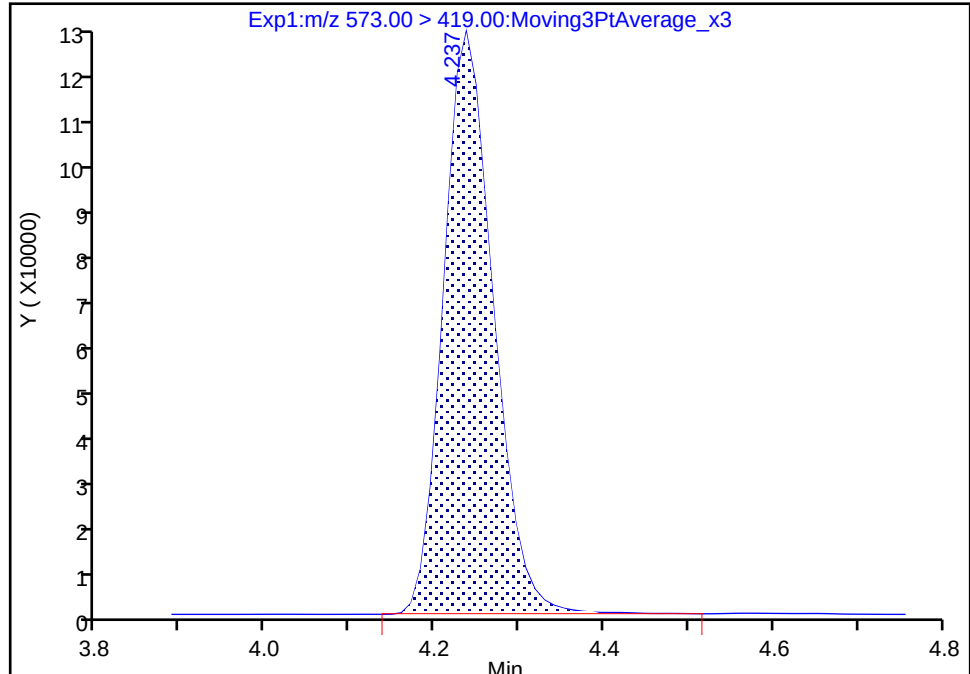
Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A11.d				
Injection Date:	16-Dec-2022 13:06:50	Instrument ID:	LC812		
Lims ID:	460-270642-A-4-A	Lab Sample ID:	200-270642-4		
Client ID:	BCS-21-12_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

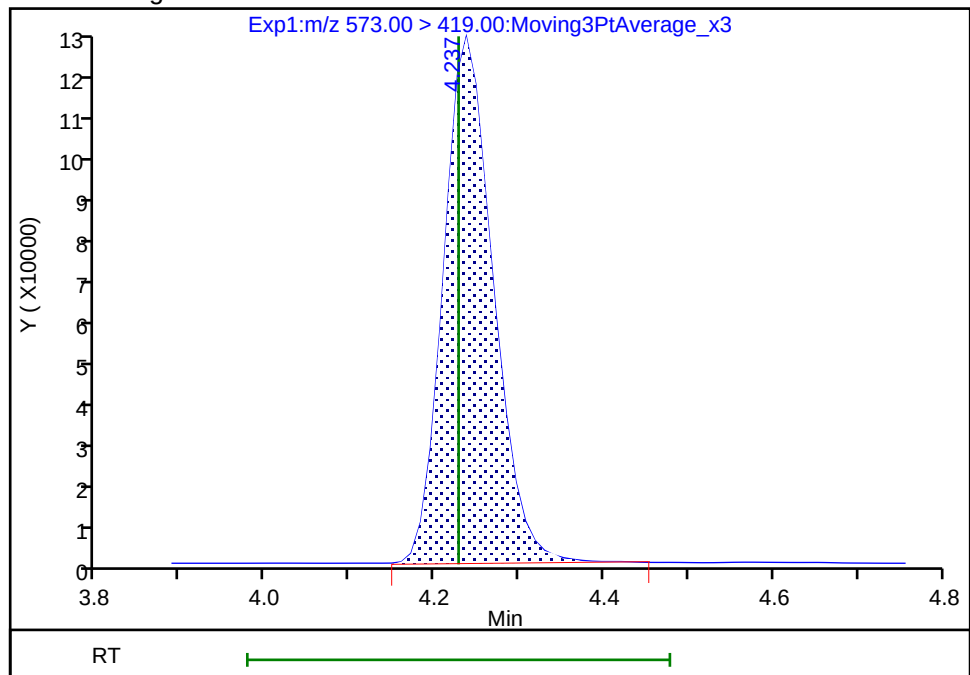
RT: 4.24
Area: 497553
Amount: 1.143413
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 496321
Amount: 1.140582
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:47:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958
SDG No.: _____
Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-185958/5	PA221118ICAL05.d
Level 2	IC 200-185958/6	PA221118ICAL06.d
Level 3	IC 200-185958/7	PA221118ICAL07.d
Level 4	ICISAV 200-185958/8	PA221118ICAL08.d
Level 5	IC 200-185958/9	PA221118ICAL09.d
Level 6	IC 200-185958/10	PA221118ICAL10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.1445 0.9264	1.1425	1.0785	0.9425	0.9528	AveI D		1.031 2				9.9		20.0			
Perfluoropentanoic acid (PFPeA)	1.1767 0.9853	1.2150	1.1316	1.0126	1.0178	AveI D		1.089 8				8.9		20.0			
Perfluorobutanesulfonic acid (PFBS)	1.2615 1.0797	1.2216	1.1599	1.0279	1.1141	AveI D		1.144 1				7.7		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.3006 2.8195	3.2444	3.2078	2.8919	3.0206	AveI D		3.080 8				6.5		20.0			
Perfluorohexanoic acid (PFHxA)	1.1712 0.9795	1.1611	1.1391	1.0360	1.0508	AveI D		1.089 6				7.2		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.4060 1.2589	1.3701	1.4318	1.2217	1.3242	AveI D		1.335 4				6.2		20.0			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.0956 0.9993	1.1493	1.1537	0.9619	0.9757	AveI D		1.055 9				8.3		20.0			
Perfluorohexanesulfonic acid (PFHxS)	1.2166 1.0489	1.1225	1.1993	1.0590	1.1257	AveI D		1.128 7				6.1		20.0			
Perfluoroheptanoic acid (PFHpA)	1.1962 0.9763	1.1664	1.1666	1.0118	1.0154	AveI D		1.088 8				9.0		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.8732 4.4581	6.0703	5.9049	5.5037	5.2323	AveI D		5.507 1				10.9		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.4534 1.2848	1.5083	1.4953	1.3259	1.3126	AveI D		1.396 7				7.2		20.0			
6:2 FTS	2.6430 2.1137	2.2601	2.3824	2.0273	2.1346	L1ID	0.025 1	2.112 5							0.9990		0.9900
Perfluorooctanoic acid (PFOA)	1.1586 0.9630	1.0893	1.1217	1.0385	1.0432	AveI D		1.069 0				6.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958
SDG No.: _____
Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorooctanesulfonic acid (PFOS)	1.3844 1.1060	1.3450	1.1741	1.1401	1.1472	AveI n		1.216 1				9.7		20.0			
Perfluorononanoic acid (PFNA)	1.0746 0.9714	1.0661	1.1036	0.9819	1.0265	AveI n		1.037 4				5.1		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	2.9573 2.5142	2.9305	2.9507	2.7009	2.6934	AveI n		2.791 2				6.5		20.0			
Perfluorononanesulfonic acid (PFNS)	0.9829 0.8558	0.9757	0.9391	0.8663	0.8876	AveI n		0.917 9				6.1		20.0			
Perfluorodecanoic acid (PFDA)	1.1661 0.9356	1.1171	1.2688	1.0261	0.9931	AveI n		1.084 5				11.3		20.0			
8:2 FTS	1.6292 1.5472	1.6701	1.7320	1.5441	1.5795	AveI n		1.617 0				4.6		20.0			
Perfluorooctanesulfonamide (FOSA)	1.0869 0.9680	1.1382	1.0618	0.9865	1.0270	AveI n		1.044 7				6.1		20.0			
N-methylperfluorooctanesulfonamido acetic acid (NMeFOSAA)	1.0455 0.8611	0.8925	0.9842	0.8638	0.8494	LIID	0.010 0	0.860 2							0.9990		0.9900
Perfluorodecanesulfonic acid (PFDS)	0.7474 0.6922	0.7456	0.7794	0.6770	0.7070	AveI n		0.724 8				5.4		20.0			
Perfluoroundecanoic acid (PFUnA)	1.0465 0.9002	1.0407	1.1264	0.9789	0.9541	AveI n		1.007 8				7.9		20.0			
N-ethylperfluorooctanesulfonamido acetic acid (NEtFOSAA)	0.9658 0.8407	0.9508	0.9147	0.8447	0.8547	AveI n		0.895 3				6.2		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	4.6158 3.6495	4.6481	4.4955	4.2280	4.1787	AveI n		4.302 6				8.7		20.0			
Perfluorododecanoic acid (PFDoA)	1.1560 0.9277	1.1325	1.1436	1.0327	0.9642	AveI n		1.059 5				9.3		20.0			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	1.0867 0.9589	0.9706	0.9716	0.9361	0.9064	AveI n		0.971 7				6.3		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3227 0.2805	0.3244	0.3236	0.2924	0.2963	AveI n		0.306 7				6.3		20.0			
Perfluorotridecanoic acid (PFTriA)	1.0848 0.8766	1.0990	1.0994	0.9438	0.9757	AveI n		1.013 2				9.3		20.0			
Perfluorotetradecanoic acid (PFTeA)	0.1527 0.1272	0.1391	0.1459	0.1277	0.1289	AveI n		0.136 9				7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.1897 0.9218	1.0727	1.0421	0.8953	0.9216	L1ID	0.015 7	0.919 5							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.8440 0.7765	0.8293	0.9071	0.8076	0.7770	AveI n		0.823 6				6.0	20.0				
13C4 PFBA	1.1404 1.1799	1.0866	1.1024	1.0894	1.1315	Ave		1.121 7				3.2	50.0				
13C5 PFPeA	0.8620 0.8893	0.8105	0.8579	0.8500	0.8561	Ave		0.854 3				3.0	50.0				
13C3 PFBS	0.9374 0.9873	0.8930	0.9171	0.9137	0.9204	Ave		0.928 1				3.5	50.0				
M2-4:2 FTS	0.0877 0.0861	0.0797	0.0800	0.0778	0.0808	Ave		0.082 0				4.8	50.0				
13C2 PFHxA	0.8868 0.9110	0.8654	0.9101	0.8833	0.9139	Ave		0.895 1				2.2	50.0				
13C3 HFPO-DA	0.1502 0.1669	0.1484	0.1584	0.1602	0.1638	Ave		0.158 0				4.7	50.0				
18O2 PFHxS	0.6970 0.7163	0.6705	0.6515	0.6583	0.6633	Ave		0.676 1				3.7	50.0				
13C4 PFHpA	0.9332 0.9419	0.8781	0.8987	0.9124	0.9591	Ave		0.920 6				3.2	50.0				
M2-6:2 FTS	0.1194 0.1117	0.1128	0.1090	0.1129	0.1146	Ave		0.113 4				3.1	50.0				
13C4 PFOA	1.0534 1.0538	0.9967	1.0342	1.0066	1.0654	Ave		1.035 0				2.7	50.0				
13C4 PFOS	0.4599 0.4970	0.4445	0.4526	0.4349	0.4638	Ave		0.458 8				4.7	50.0				
13C5 PFNA	1.0139 1.0056	0.9936	0.9947	1.0127	1.0144	Ave		1.005 8				1.0	50.0				
13C2 PFDA	1.0047 1.0662	1.0261	0.9756	1.0248	1.0523	Ave		1.024 9				3.2	50.0				
M2-8:2 FTS	0.1424 0.1384	0.1349	0.1401	0.1347	0.1416	Ave		0.138 7				2.4	50.0				
13C8 FOSA	0.8552 0.9157	0.7991	0.8222	0.8078	0.8419	Ave		0.840 3				5.0	50.0				
d3-NMeFOSAA	0.2080 0.2288	0.2012	0.1948	0.2020	0.2172	Ave		0.208 7				6.0	50.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFUnA	0.9739 0.9407	0.8915	0.9322	0.9386	0.9543	Ave		0.938 5				2.9		50.0			
d5-NETfOSAA	0.2016 0.2128	0.2027	0.2082	0.1978	0.2098	Ave		0.205 5				2.8		50.0			
13C2 PFDoA	0.9692 1.0059	0.9046	0.9388	0.9287	0.9901	Ave		0.956 2				4.1		50.0			
13C2 PFTeDA	0.8372 0.8524	0.8152	0.8139	0.7926	0.8509	Ave		0.827 0				2.9		50.0			
13C2 PFHxDA	1.0582 1.0482	1.0104	0.9816	0.9803	1.0561	Ave		1.022 5				3.6		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-185958/5	PA221118ICAL05.d
Level 2	IC 200-185958/6	PA221118ICAL06.d
Level 3	IC 200-185958/7	PA221118ICAL07.d
Level 4	ICISAV 200-185958/8	PA221118ICAL08.d
Level 5	IC 200-185958/9	PA221118ICAL09.d
Level 6	IC 200-185958/10	PA221118ICAL10.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)		AveI D	117447 18287579	236091	1137760	1911392	5105461	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveI D	91274 14659532	187282	929016	1602160	4126130	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveI D	94070 15764131	183390	899900	1545417	4292437	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveI D	24335 3793564	45908	229433	391113	1079231	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveI D	93459 14928997	191103	992048	1703495	4547952	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveI D	82717 14151584	163879	837304	1404230	3901605	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveI D	14811 2790710	32429	174879	286947	756781	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveI D	69439 11438488	130263	680406	1180858	3217665	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveI D	100453 15384783	194803	1003322	1718424	4611900	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveI D	228953 34921387	483450	2408962	4197219	10824421	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic acid (PFHpS)		AveI D	57260 10171074	121399	616490	1021904	2744265	0.0476 9.52	0.0952	0.476	0.952	2.38
6:2 FTS		L1ID	26914 3743844	45963	235479	404018	1097897	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveI D	109826 16977289	206480	1110144	1946044	5263268	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	53166 8534676	105528	471879	856526	2338057	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	98046 16342622	201460	1050495	1851038	4930997	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanona ne-1-sulfonic acid (9Cl-PF3O		AveI D	114059 19485090	230911	1190983	2037918	5512960	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid (PFNS)		AveI D	39049 6831873	79193	390435	673297	1871298	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	105421 16688874	217999	1184639	1957474	4948756	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveI D	20003 3431863	41049	222425	370895	1014644	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveI D	83641 14828965	172977	835408	1483356	4094524	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonami doacetic acid (NMeFOSAA)		L1ID	19570 3297027	34156	183478	324897	873622	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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
Perfluorodecanesulfonic acid (PFDS)		AveI D	29817 5548668	60768	325384	528363	1496790	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveI D	91713 14168517	176444	1004863	1710346	4311823	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamid oacetic acid (NEtFOSAA)		AveI D	17526 2992748	36650	182262	311108	848987	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafuoro-3-oxaundec ane-1-sulfonic acid (11Cl-PF		AveI D	179935 28587798	370183	1834007	3224328	8644779	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveI D	100823 15612916	194829	1027352	1785384	4520955	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveI D	13425 2140218	24005	125547	226266	585886	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveI D	12927 2258006	26552	135657	229113	629893	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveI D	94610 14753486	189059	987678	1631703	4574880	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveI D	11500 1813608	21567	113607	188468	519386	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L1ID	113285 16164958	206119	978907	1633724	4609177	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	80369 13617092	159361	852104	1473641	3885994	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PF OA	Ave	2565506 2467565	2583086	2637410	2534911	2679202	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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
13C5 PFPeA	13PF OA	Ave	1939262 1859782	1926794	2052396	1977830	2026955	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1961265 1920108	1974243	2040575	1977208	2026741	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	184320 168186	176875	178810	169056	178646	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1995025 1905245	2057289	2177304	2055340	2164012	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	337960 349067	352715	378942	372889	387831	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	1483321 1417084	1507942	1474490	1449028	1485775	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	2099356 1969787	2087570	2150118	2123066	2271049	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	255115 221871	254748	247623	249636	257709	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	2369880 2203793	2369406	2474245	2342274	2522753	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	989045 993714	1010315	1035061	967441	1049764	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	2280957 2102974	2362013	2379680	2356501	2401890	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	2260154 2229691	2439344	2334094	2384612	2491665	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-270642-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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
M2-8:2 FTS	13PF OA	Ave	306939 277266	307241	321045	300249	321188	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	1923900 1914897	1899612	1967036	1879604	1993351	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	467975 478582	478399	466044	470154	514239	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	2191050 1967361	2119319	2230172	2183949	2259671	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	453643 444955	481823	498173	460360	496655	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	2180352 2103698	2150435	2245926	2161023	2344331	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	1883348 1782548	1938056	1947280	1844360	2014799	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	2380608 2191999	2401907	2348434	2280992	2500657	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution
L1ID = Linear 1/conc IsoDil

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Nov-2022 14:29:54 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:20 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 14:49:08

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 2.076 2.076 0.0 0.602 2565506 1.27 102 10150

2 Perfluorobutanoic acid

212.90 > 169.00 2.085 2.076 0.009 1.004 117447 0.0555 111 11.2 M

D 3 13C5 PFPeA

267.90 > 223.00 2.386 2.387 -0.001 0.692 1939262 1.26 101 4262

4 Perfluoropentanoic acid

262.90 > 219.00 2.386 2.387 -0.001 1.000 91274 0.0540 108 2.4 M

D 47 13C3 PFBS

301.90 > 80.00 2.400 2.400 0.0 0.696 1961265 1.17 101 318346

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.413 2.400 0.013 1.006 94070 0.0487 Target=2.14 110 139 M

298.90 > 99.00 2.400 2.400 0.0 1.000 40889 2.30(1.07-3.21) 110 29.8 M

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.701 2.689 0.012 1.005 24335 0.0500 107 375

D 60 M2-4:2 FTS

329.00 > 81.00 2.689 2.689 0.0 0.780 184320 1.25 107 185

D 7 13C2 PFHxA

315.00 > 270.00 2.725 2.725 0.0 0.790 1995025 1.24 99.1 4548

6 Perfluorohexanoic acid

313.00 > 269.00 2.737 2.725 0.012 1.004 93459 0.0537 Target=13.44 107 17.7 M

313.00 > 119.00 2.725 2.725 0.0 1.000 7632 12.25(6.72-20.15) 107 13.3 M

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.737 2.737 0.0 0.887 82717 0.0494 Target=2.98 105 219

349.00 > 99.00 2.737 2.737 0.0 0.887 28613 2.89(1.49-4.47) 105 68.8

D 64 13C3 HFPO-DA

287.00 > 169.00 2.835 2.835 0.0 0.822 337960 1.19 95.1 3479

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	14811	0.0519		104	87.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1483321	1.22		103	2964	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.004	69439	0.0490	Target=3.57	108	101	
399.00 > 99.00	3.088	3.088	0.0	1.000	19455		3.57(1.78-5.35)	108	25.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2099356	1.27		101	5220	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	100453	0.0549	Target=3.93	110	21.8	M
363.00 > 169.00	3.099	3.099	0.0	1.000	25626		3.92(1.96-5.89)	110	58.2	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	228953	0.0502	Target=3.08	107	363	
377.00 > 85.00	3.132	3.132	0.0	0.832	75160		3.05(1.54-4.62)	107	131	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	255115	1.25		105	800	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	26914	0.0474		100	78.5	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	57260	0.0495	Target=5.16	104	228	M
449.00 > 99.00	3.439	3.439	0.0	0.914	10494		5.46(2.58-7.74)	104	48.9	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2369880	1.27		102	7932	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2249687	1.25			7146	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	109826	0.0542	Target=2.82	108	8.5	
413.00 > 169.00	3.448	3.448	0.0	1.000	38701		2.84(1.41-4.23)	108	61.5	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	989045	1.20		100	2554	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	53166	0.0528	Target=5.01	114	12.5	M
499.00 > 99.00	3.764	3.764	0.0	1.000	9421		5.64(2.50-7.51)	114	10.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2280957	1.26		101	2314	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	98046	0.0518	Target=8.49	104	21.5	M
463.00 > 169.00	3.783	3.783	0.0	1.000	12273		7.99(4.25-12.74)	104	132	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	114059	0.0494		106	734	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	39049	0.0514	Target=2.60	107	385	
549.00 > 99.00	4.061	4.050	0.011	1.079	14345		2.72(1.30-3.90)	107	108	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2260154	1.23		98.0	9579	

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	4.081	4.081	0.0	1.000	105421	0.0538	Target=10.03	108	53.0	M
513.00 > 169.00	4.081	4.081	0.0	1.000	10453		10.09(5.02-15.05)	108	18.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	306939	1.23		103	1357	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	20003	0.0483		101	186	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	83641	0.0520		104	226	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1923900	1.27		102	2597	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	467975	1.25		99.7	1170	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.000	19570	0.0491		98.3	48.2	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	29817	0.0497	Target=2.58	103	240	M
599.00 > 99.00	4.331	4.331	0.0	1.151	11494		2.59(1.29-3.86)	103	114	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	91713	0.0519	Target=10.10	104	46.8	
563.00 > 169.00	4.365	4.353	0.012	1.003	8638		10.62(5.05-15.15)	104	80.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2191050	1.30		104	5521	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	17526	0.0539		108	235	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	453643	1.23		98.1	938	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	179935	0.0505		107	957	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	100823	0.0546	Target=7.41	109	7.8	
613.00 > 169.00	4.591	4.591	0.0	1.000	13273		7.60(3.70-11.11)	109	184	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2180352	1.27		101	3632	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	13425	0.0539		112	191	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	12927	0.0509	Target=0.51	105	191	
699.00 > 99.00	4.776	4.776	0.0	1.269	25803		0.50(0.25-0.76)	105	442	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	94610	0.0535	Target=5.40	107	8.2	M
663.00 > 169.00	4.813	4.804	0.009	1.048	16297		5.81(2.70-8.10)	107	99.4	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	11500	0.0558	Target=0.90	112	101	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	12127		0.95(0.45-1.35)	112	152	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.454	1883348	1.27		101	2254	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	5.367	5.367	0.0	1.557	2380608	1.29		103	5199	

45 Perfluorohexadecanoic acid

813.00 > 769.00	5.378	5.367	0.011	1.002	113285	0.0476	Target=5.85	95.2	11.0	

813.00 > 169.00	5.367	5.367	0.0	1.000	19229		5.89(2.93-8.78)	95.2	167	

46 Perfluorooctadecanoic acid

913.00 > 869.00	5.722	5.722	0.0	1.066	80369	0.0512	Target=6.30	102	9.4	

913.00 > 169.00	5.722	5.722	0.0	1.066	12582		6.39(3.15-9.46)	102	148	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00014

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d

Injection Date: 18-Nov-2022 14:29:54

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

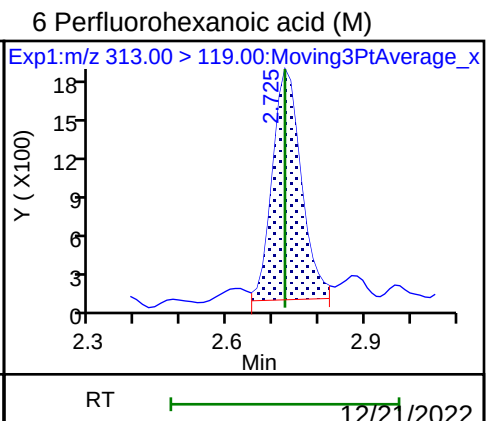
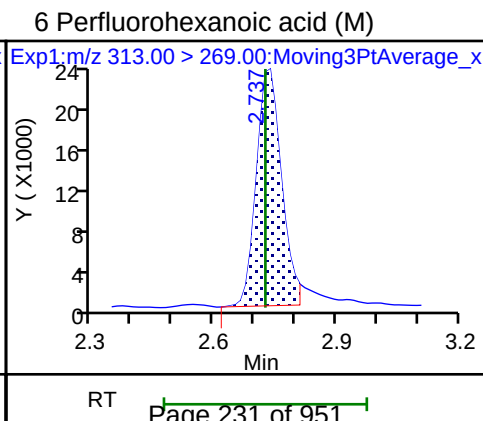
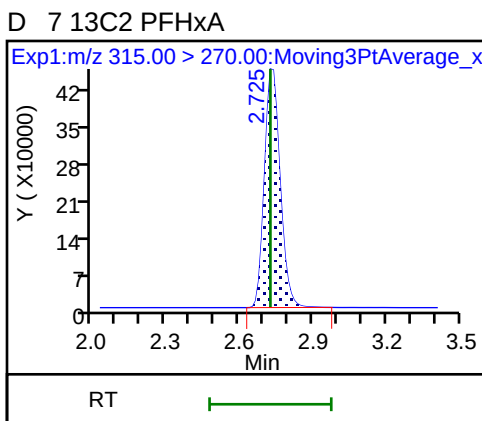
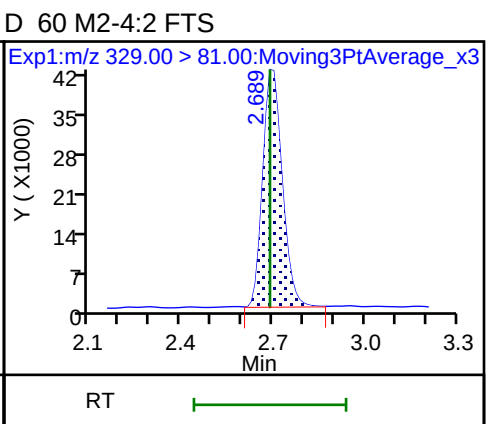
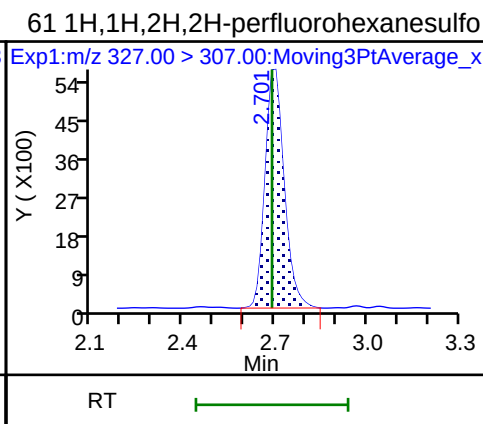
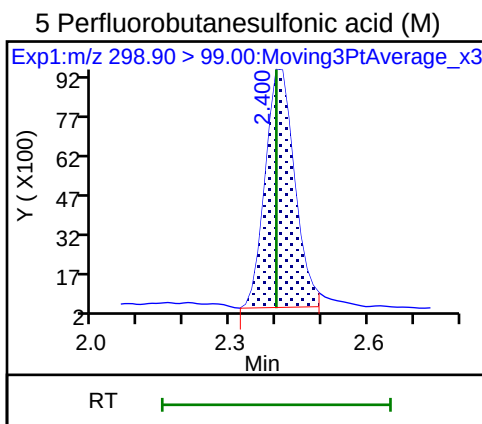
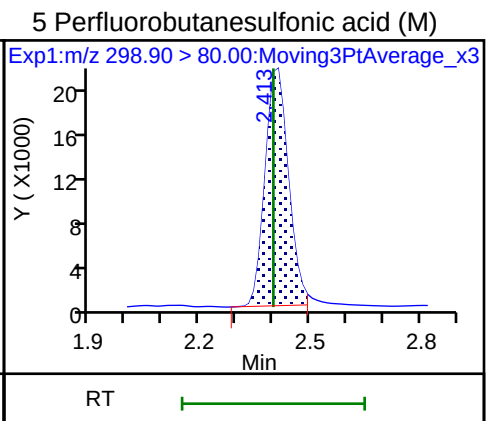
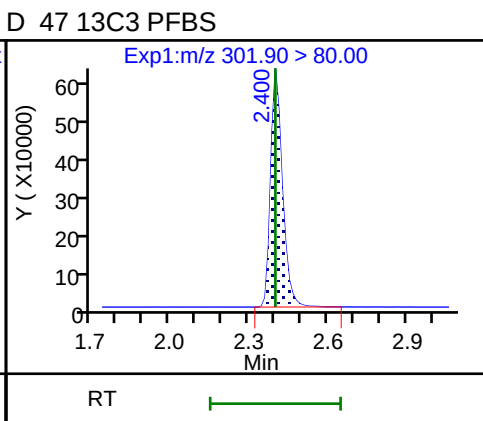
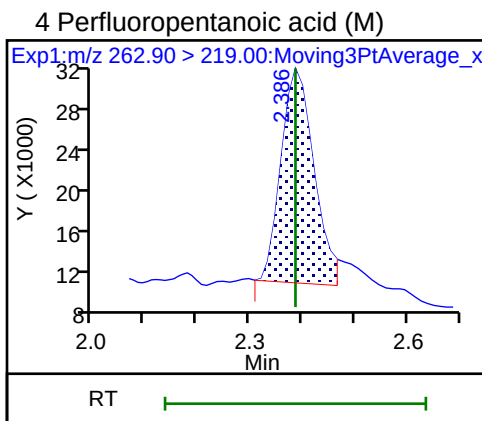
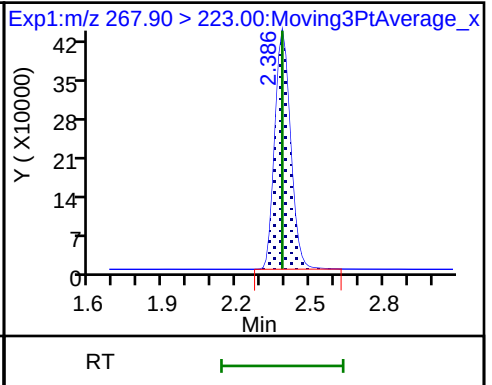
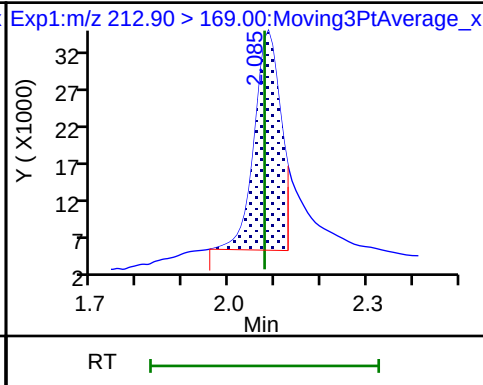
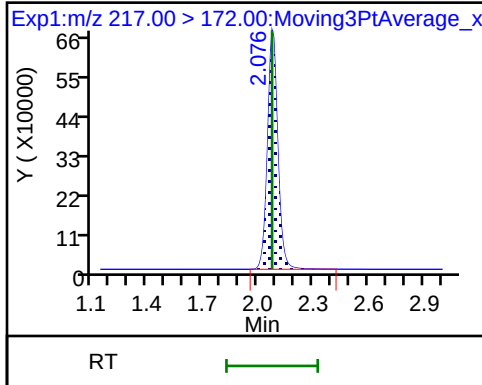
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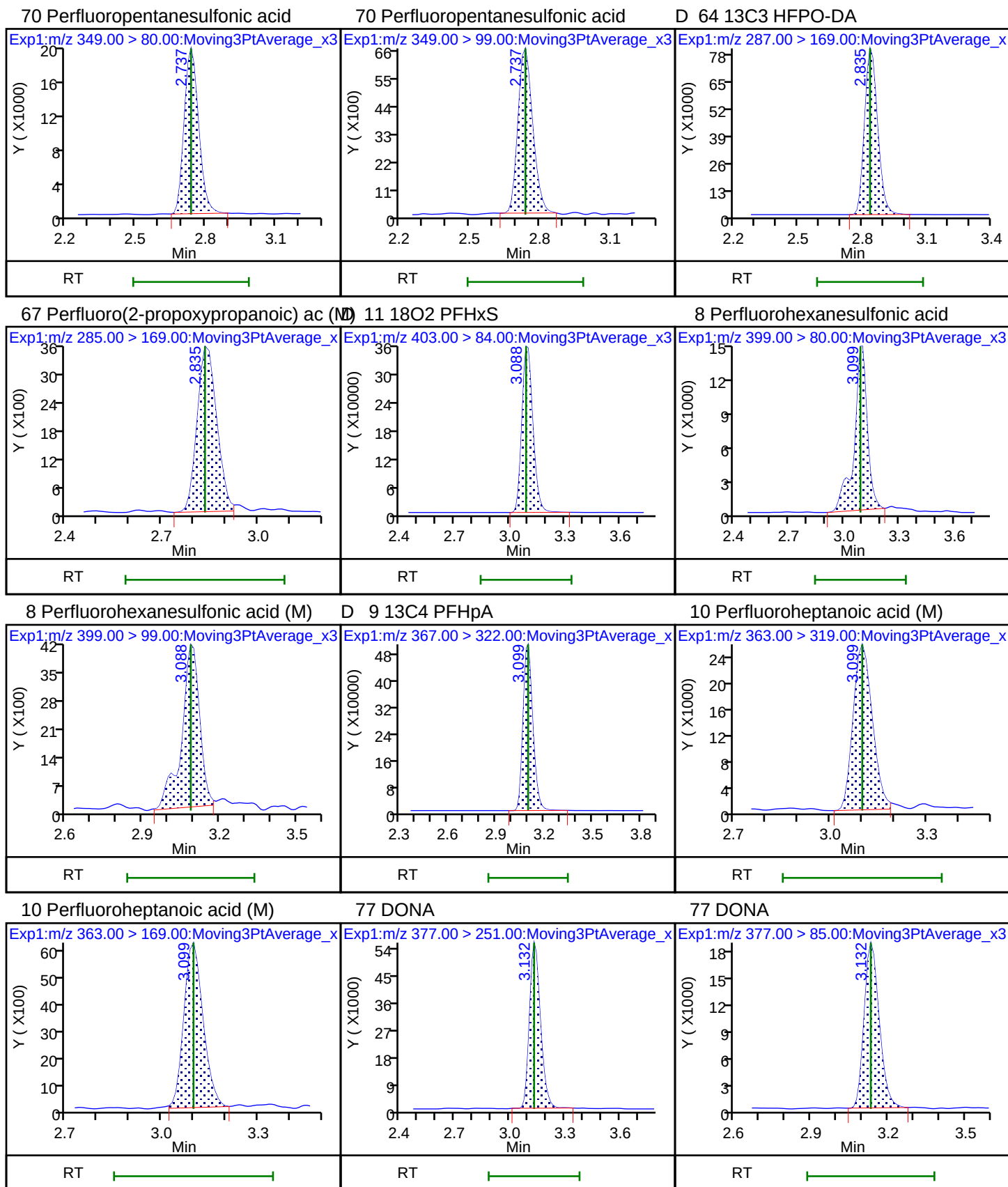
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D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

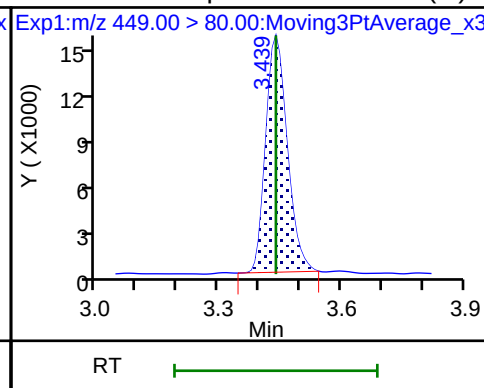
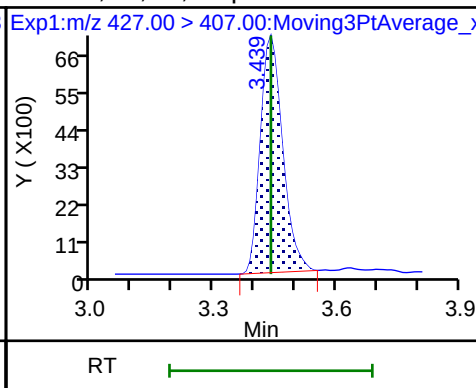
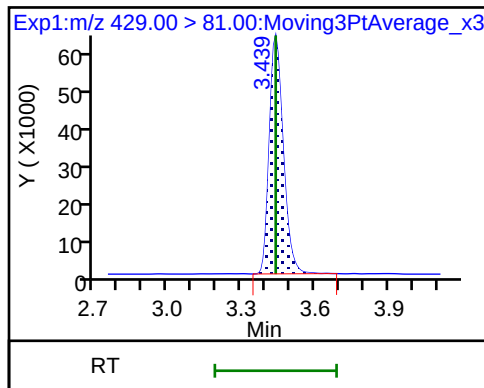




D 12 M2-6:2 FTS

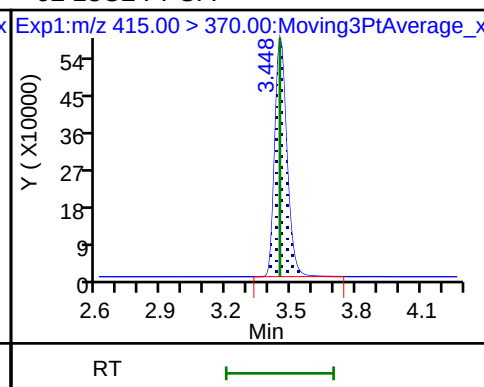
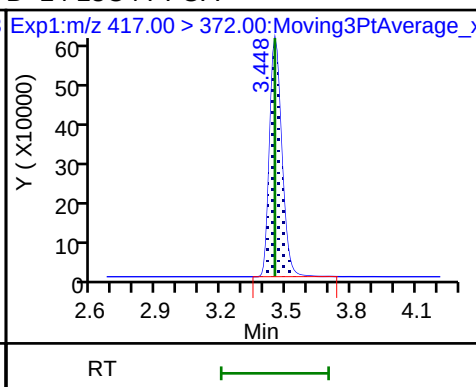
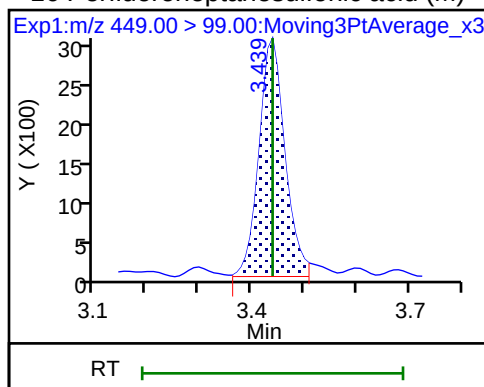
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

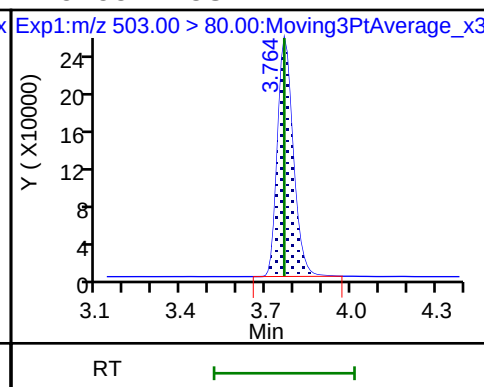
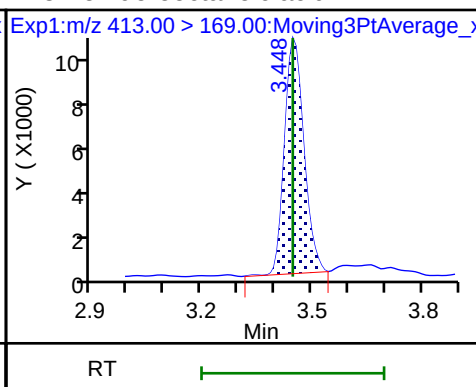
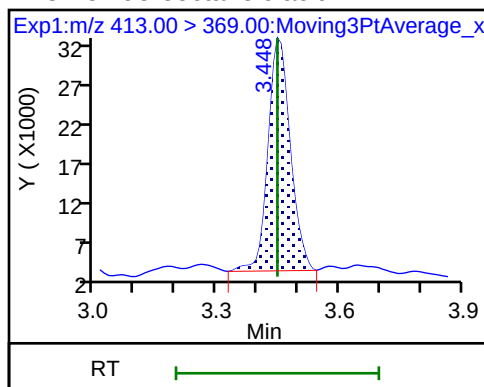
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

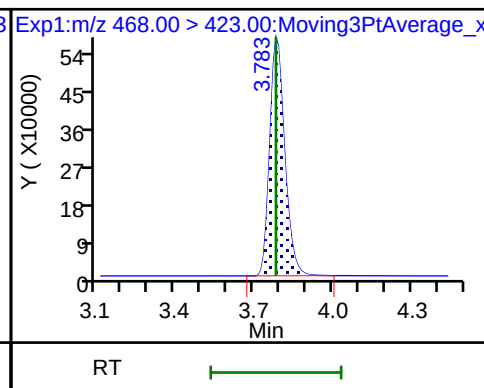
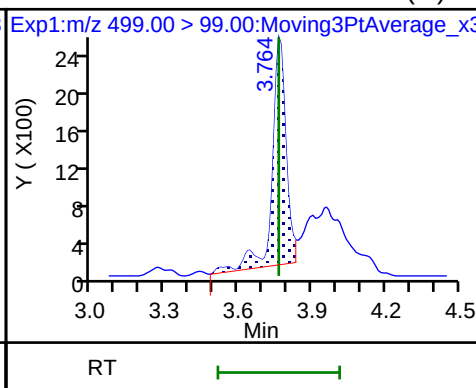
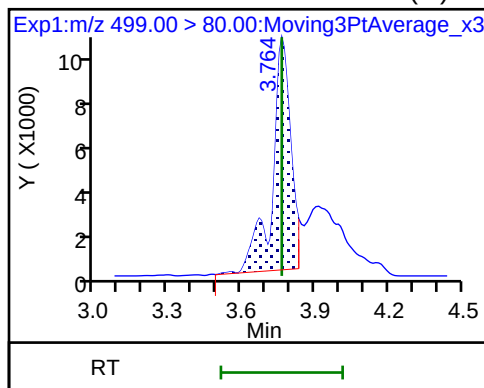
D 18 13C4 PFOS

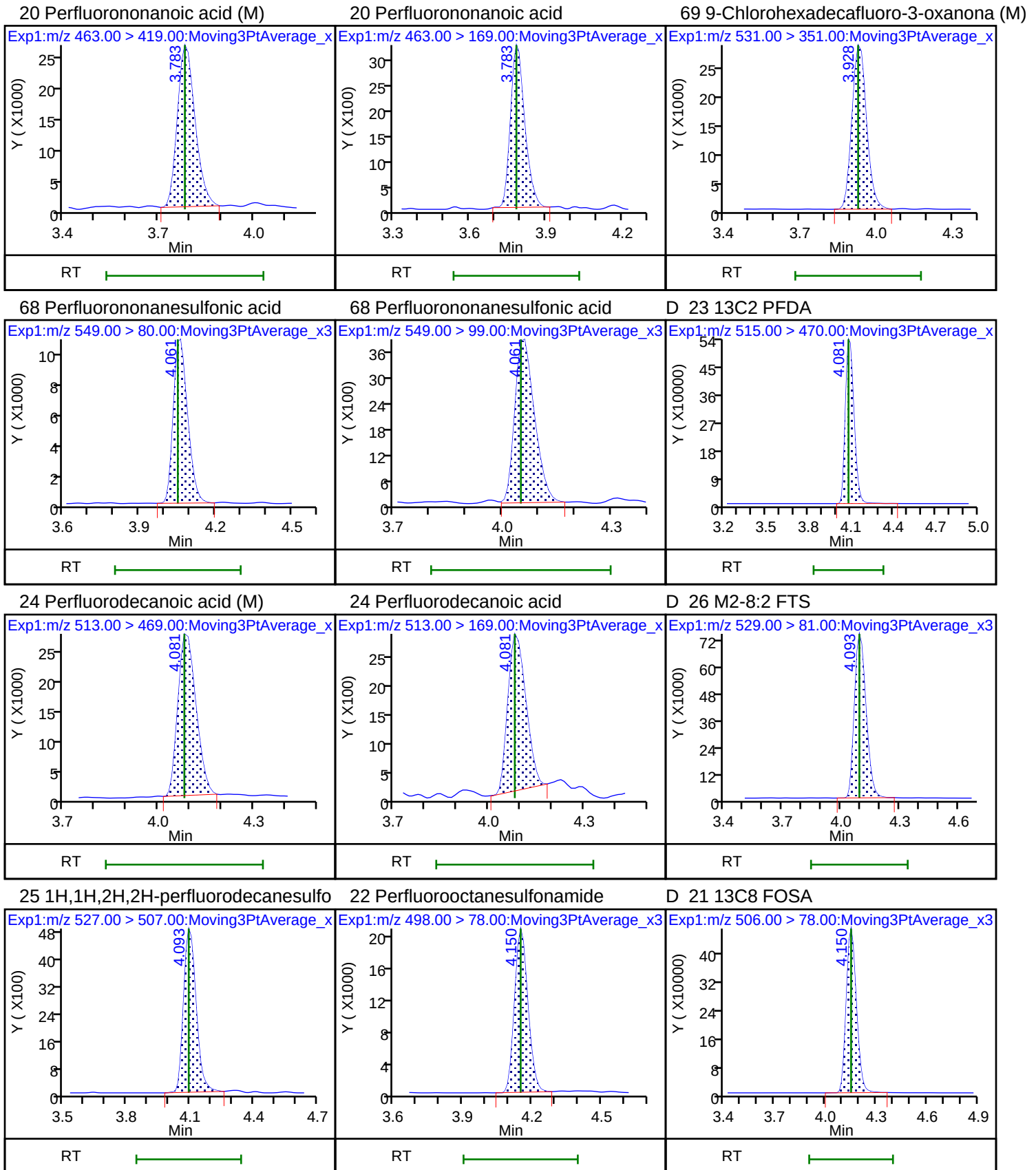


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

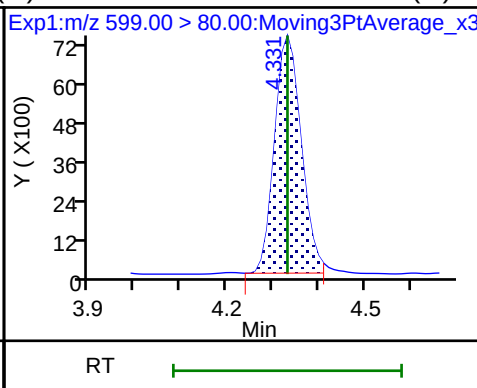
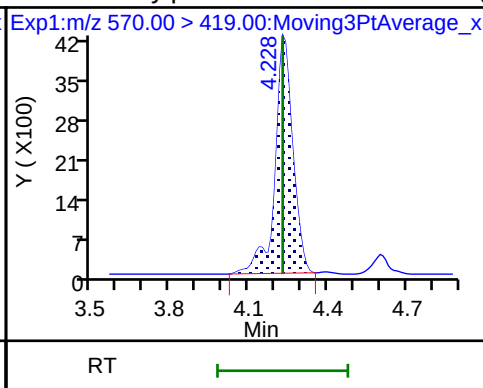
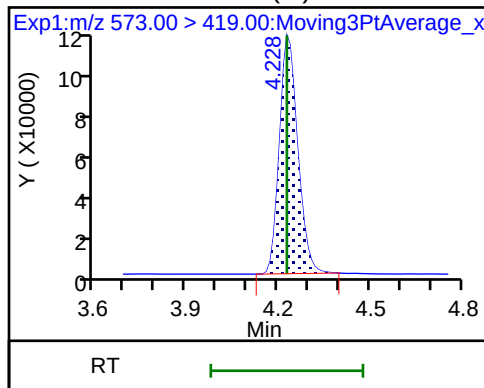




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

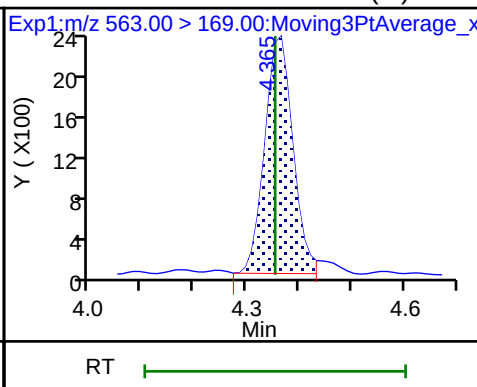
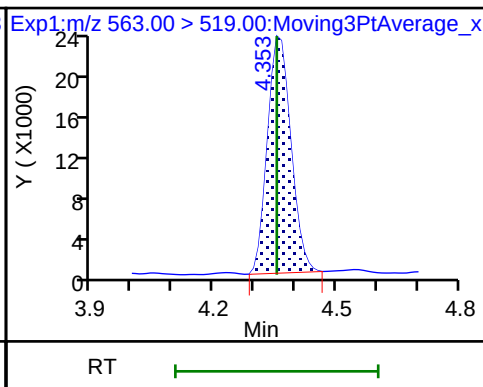
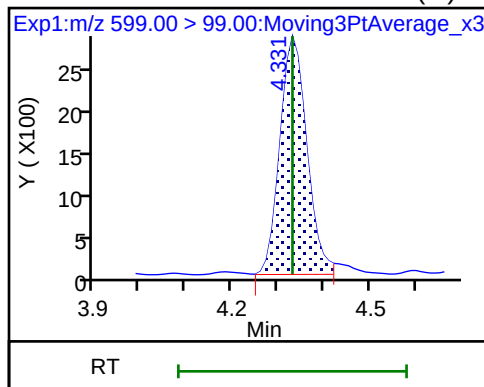
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

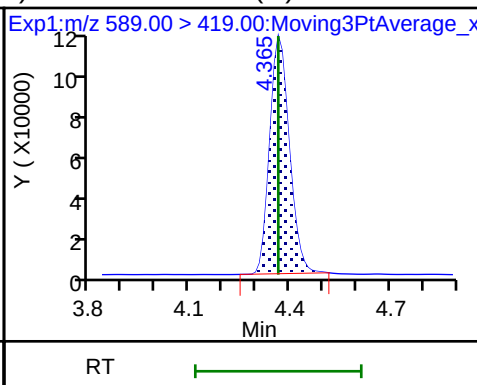
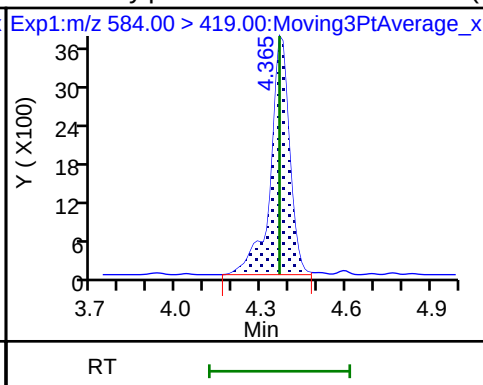
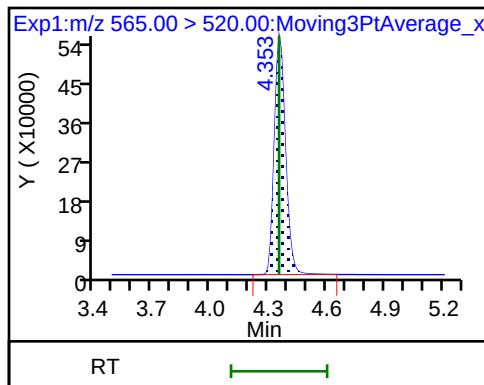
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)

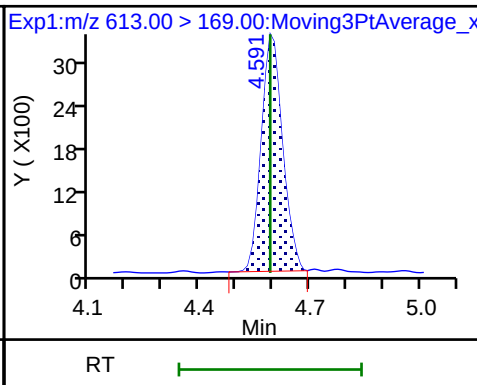
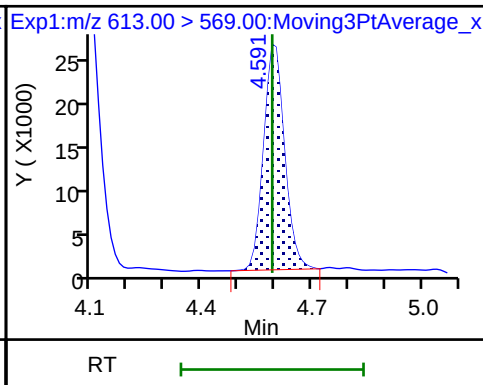
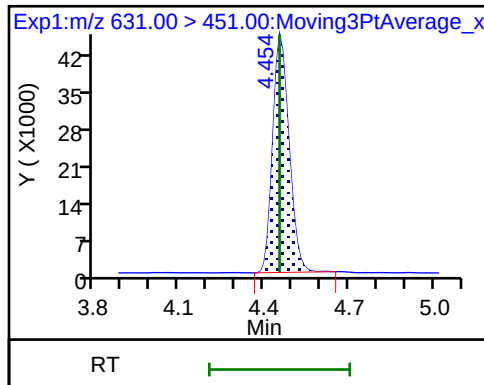
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

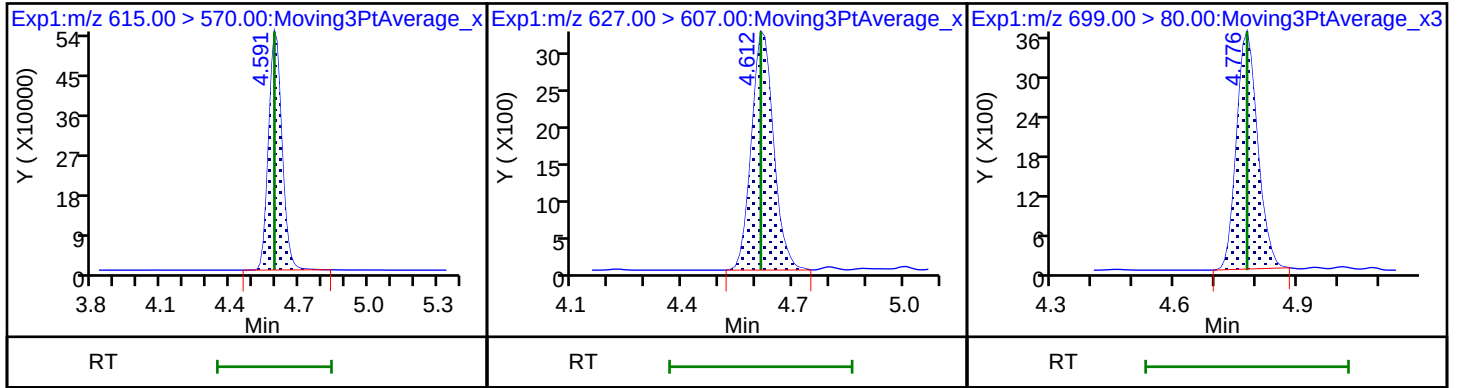
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

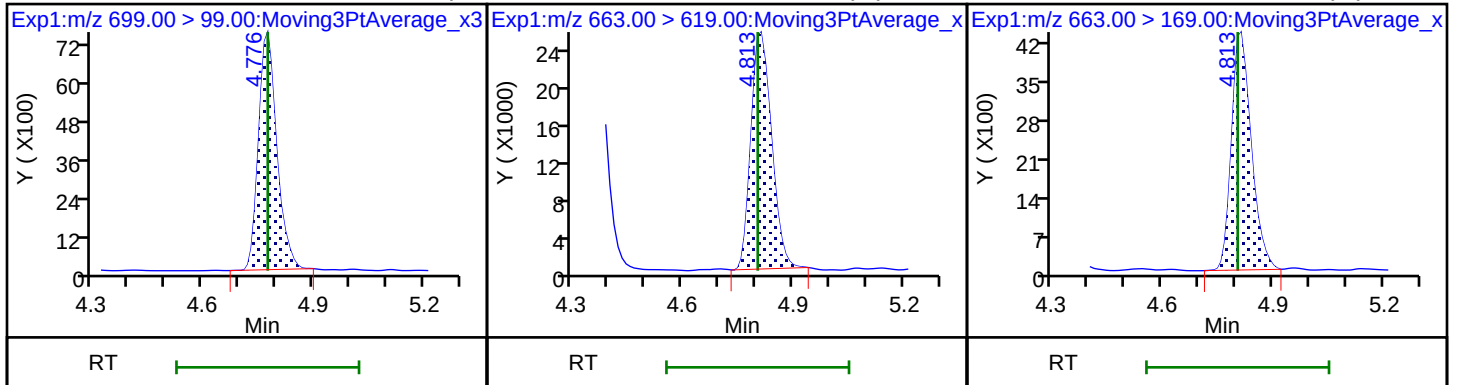
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75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

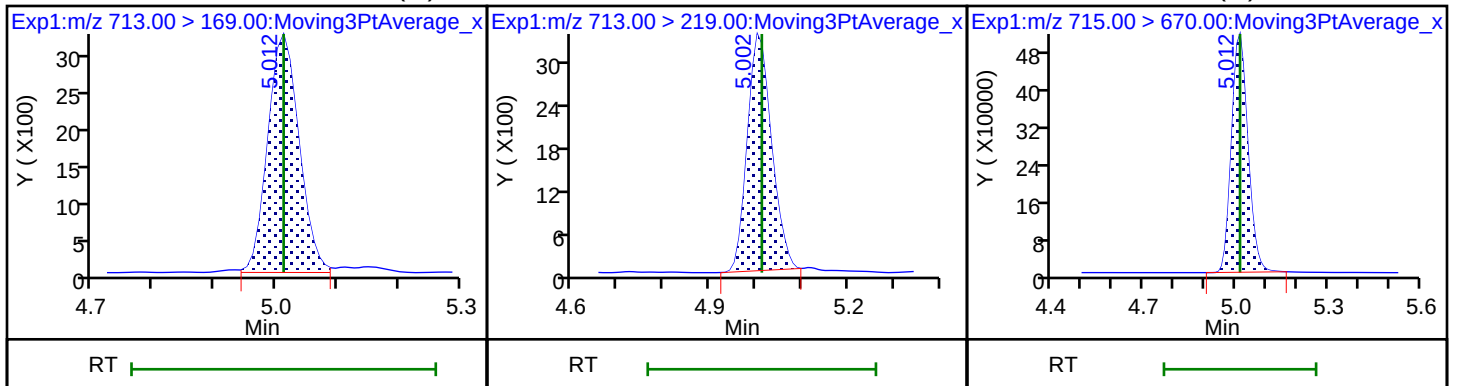
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

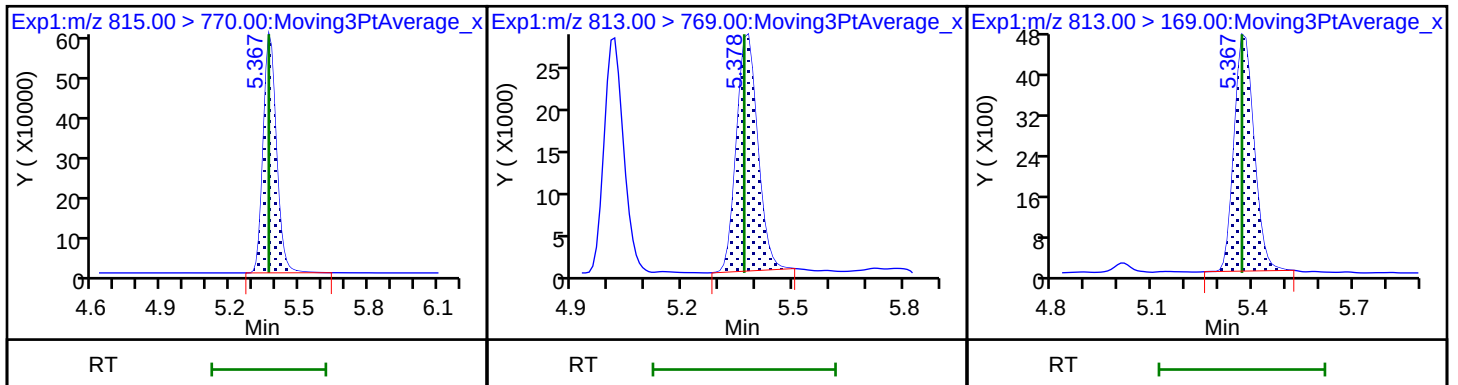
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D 44 13C2 PFHxDA

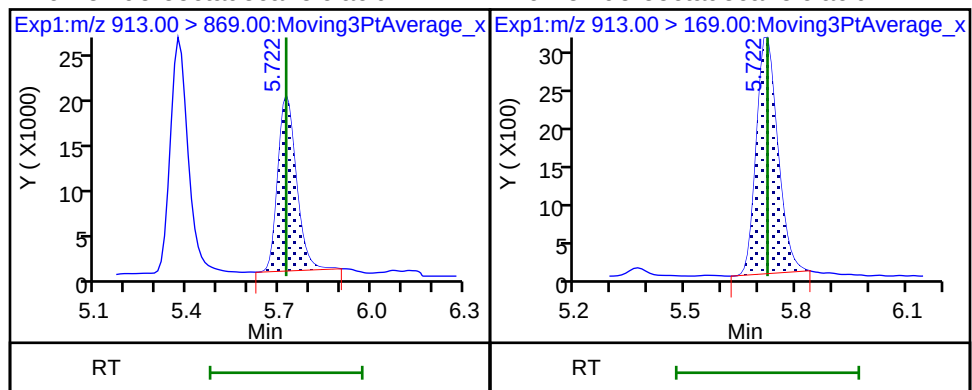
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

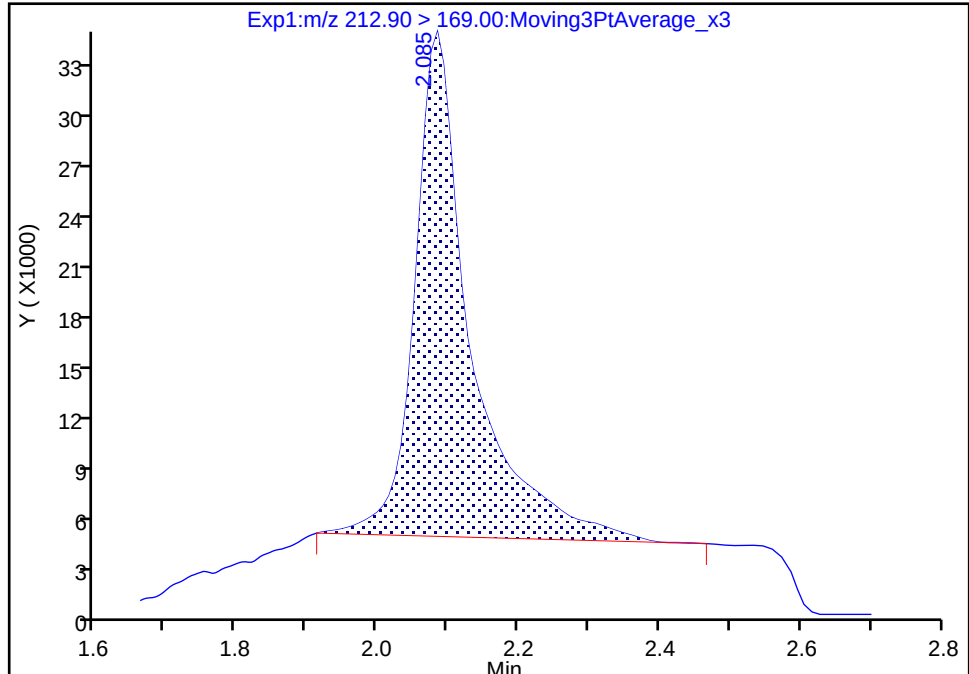
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Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

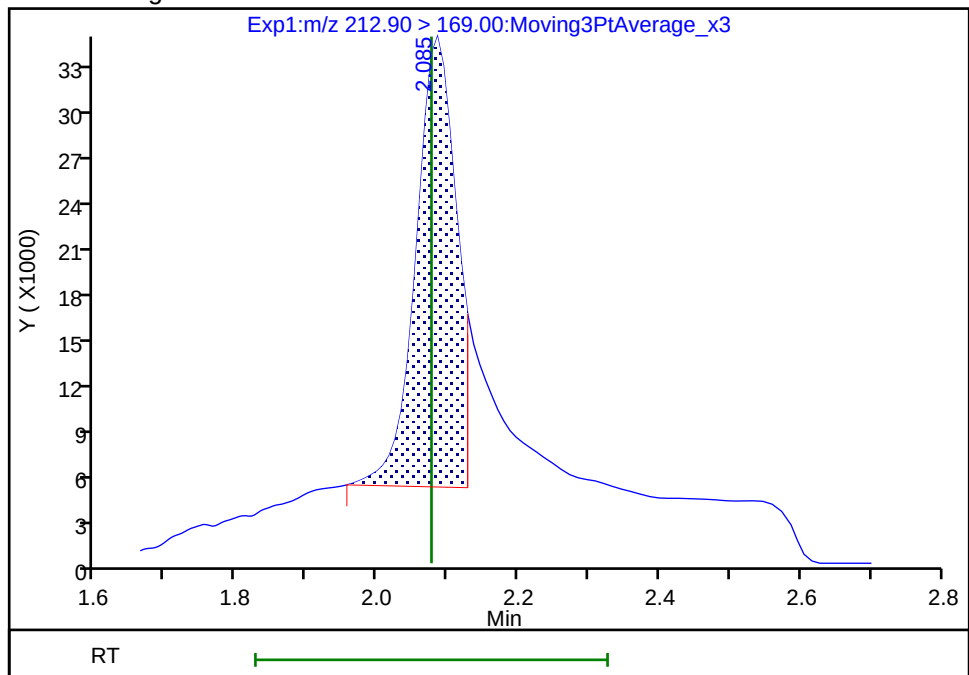
RT: 2.08
Area: 167014
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 117447
Amount: 0.055493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:43:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

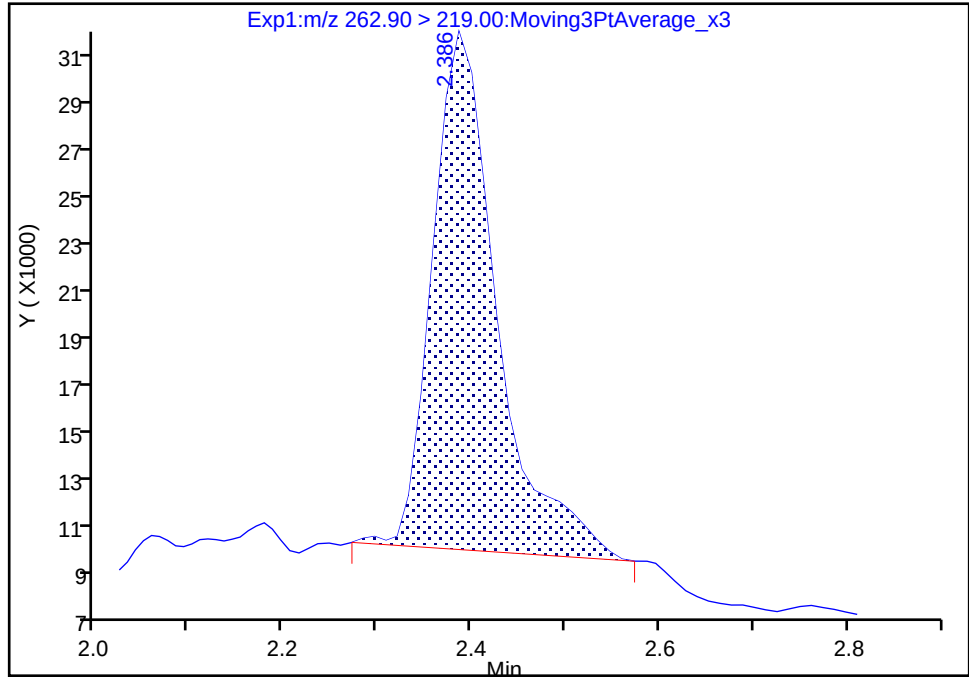
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

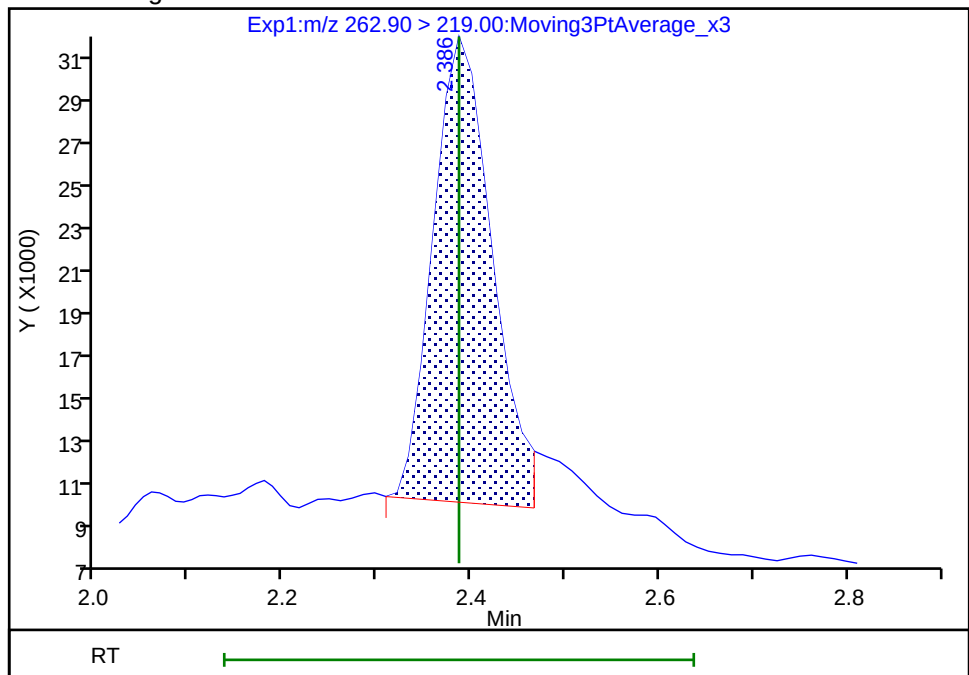
RT: 2.39
Area: 100957
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 91274
Amount: 0.053984
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

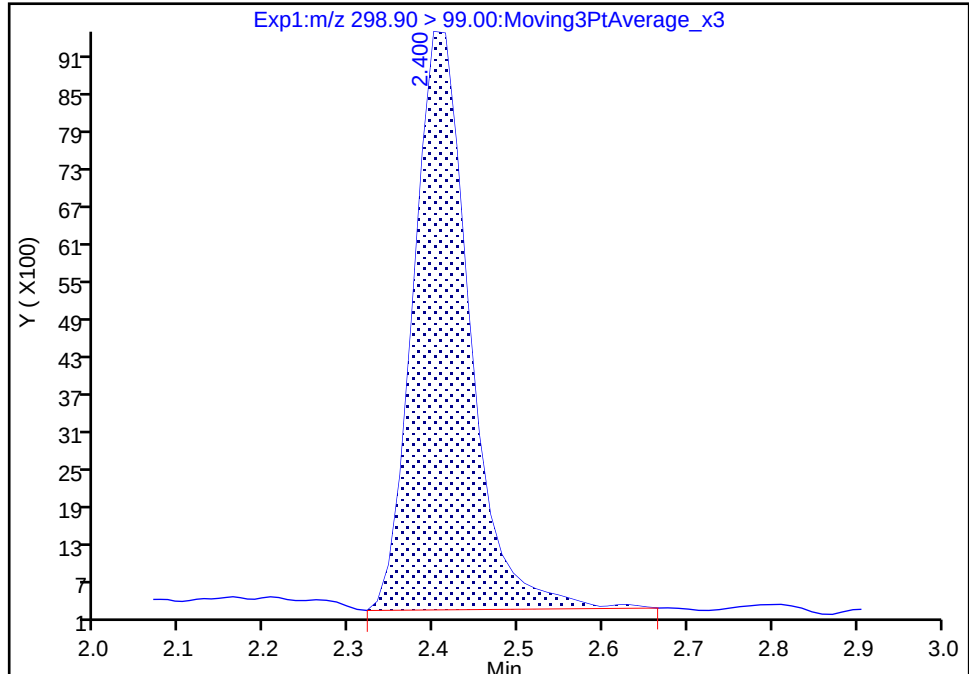
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

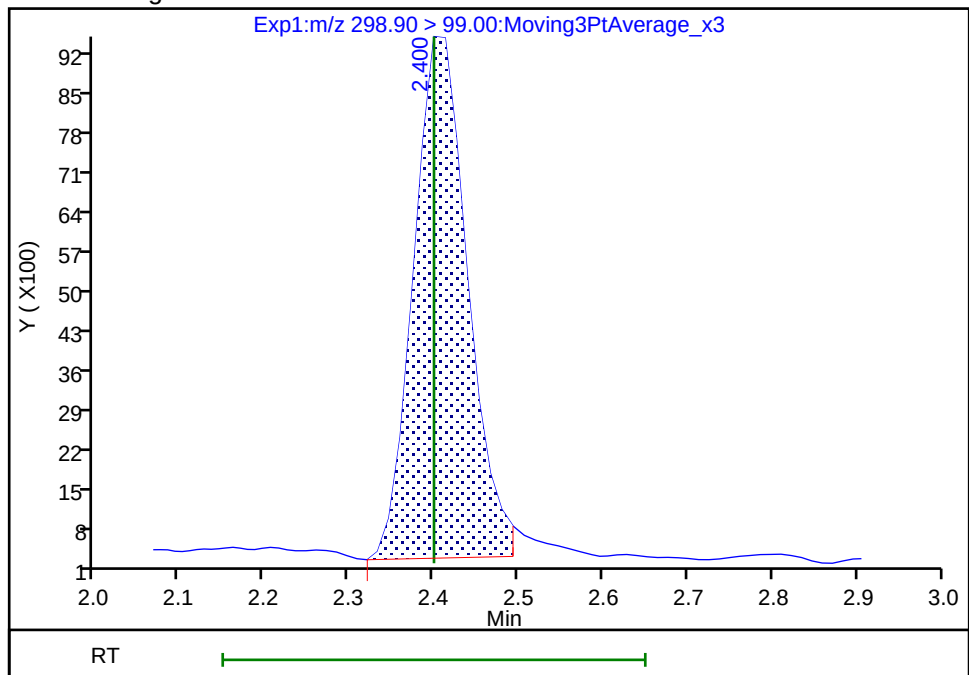
RT: 2.40
Area: 42716
Amount: 0.044200
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 40889
Amount: 0.048736
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

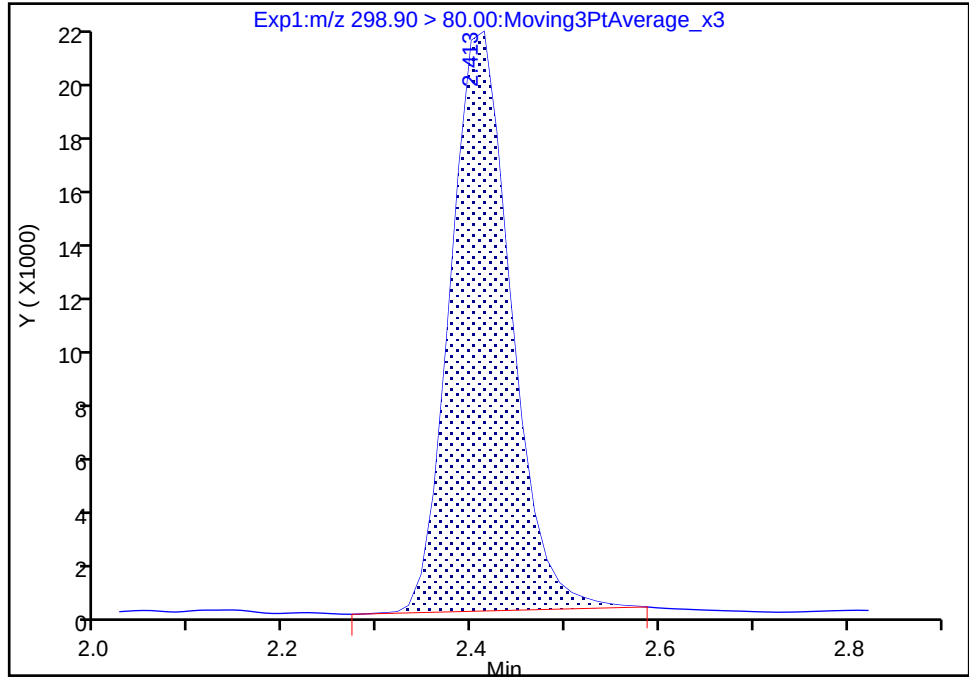
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

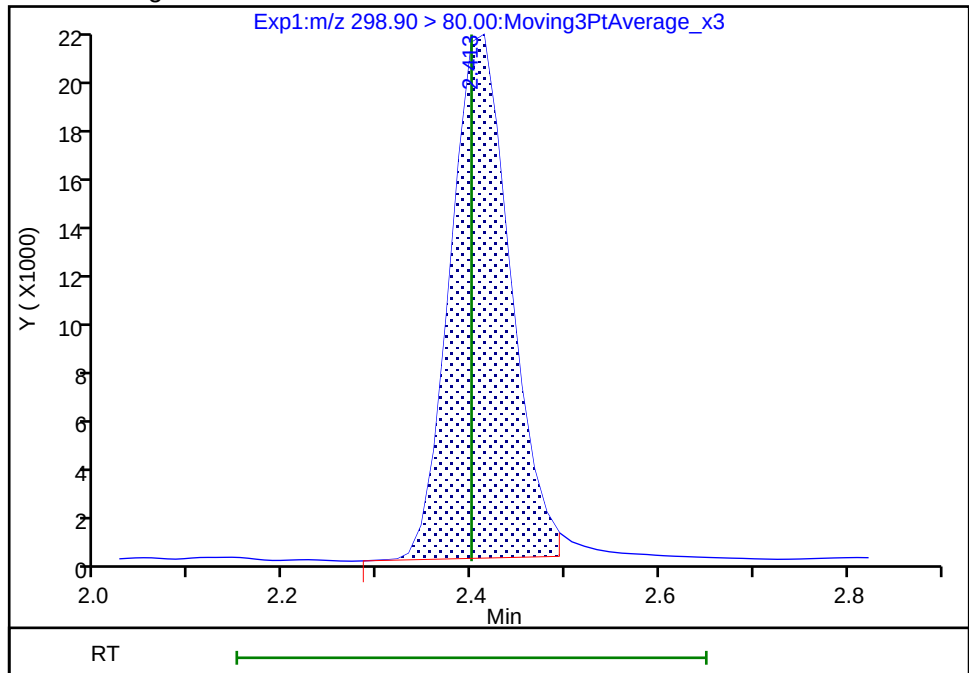
RT: 2.41
Area: 95701
Amount: 0.044200
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 94070
Amount: 0.048736
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

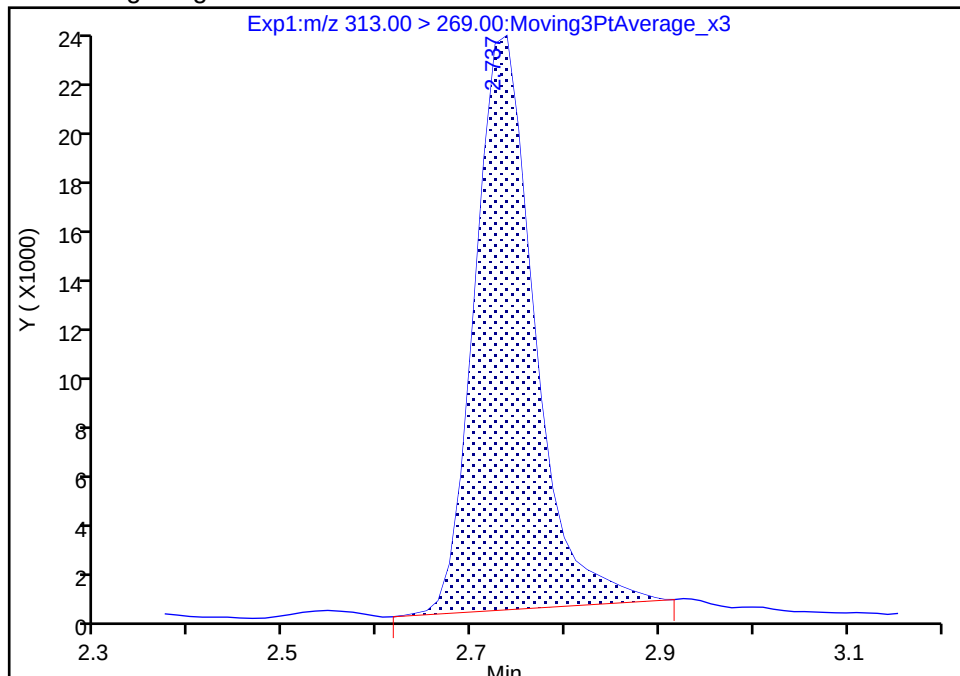
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

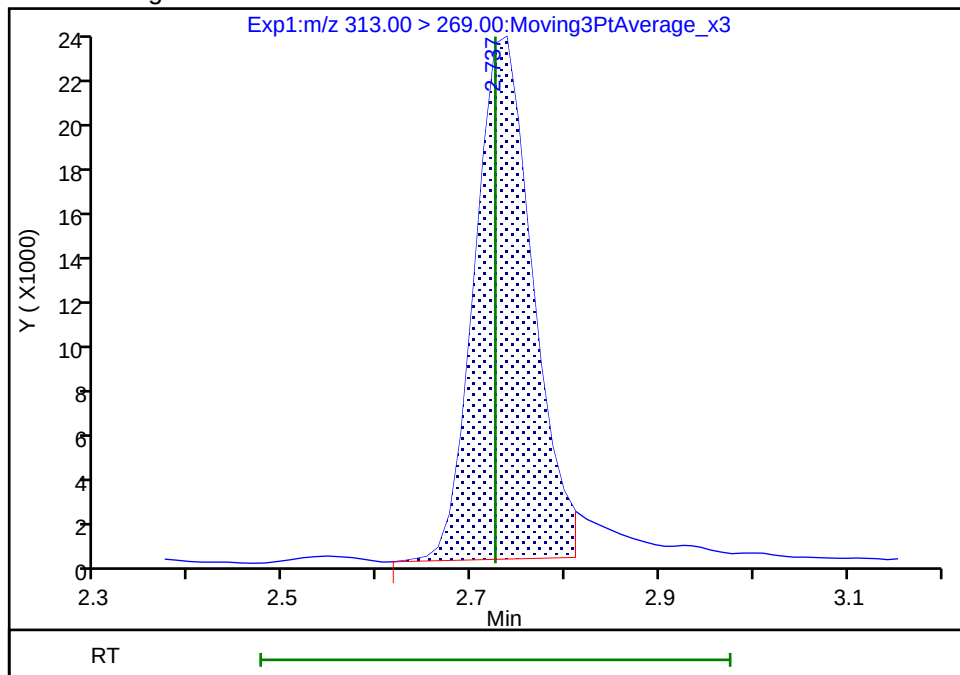
RT: 2.74
Area: 96124
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 93459
Amount: 0.053742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

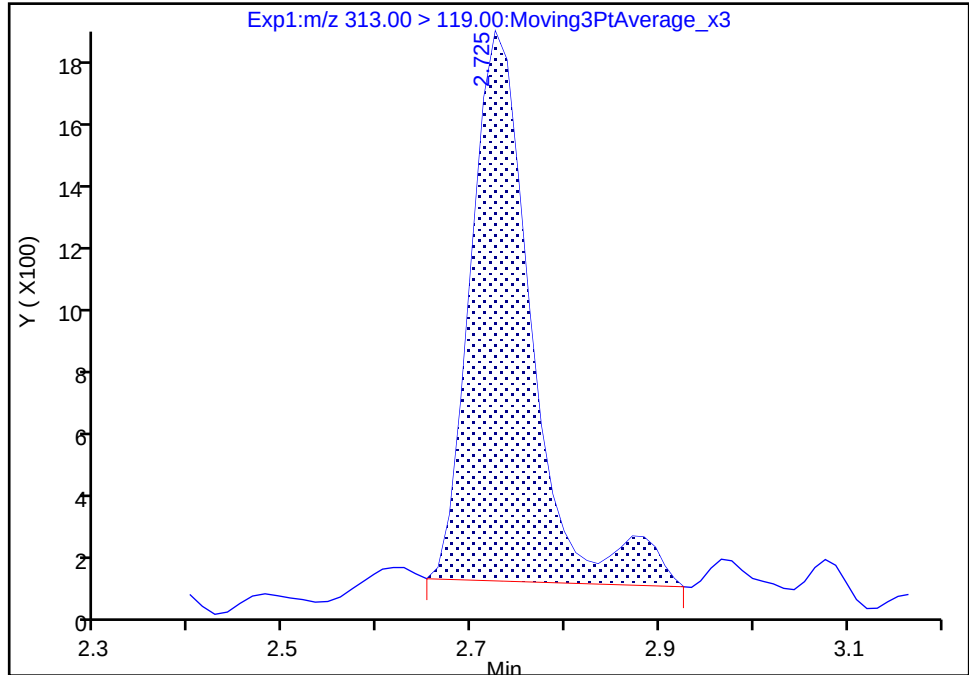
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

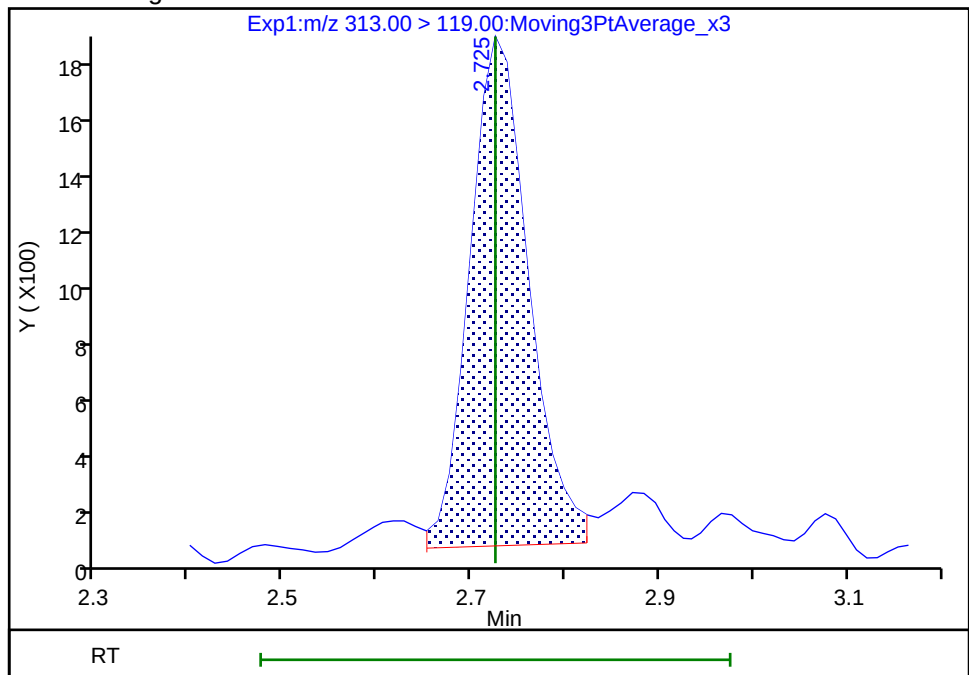
RT: 2.73
Area: 7775
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 7632
Amount: 0.053742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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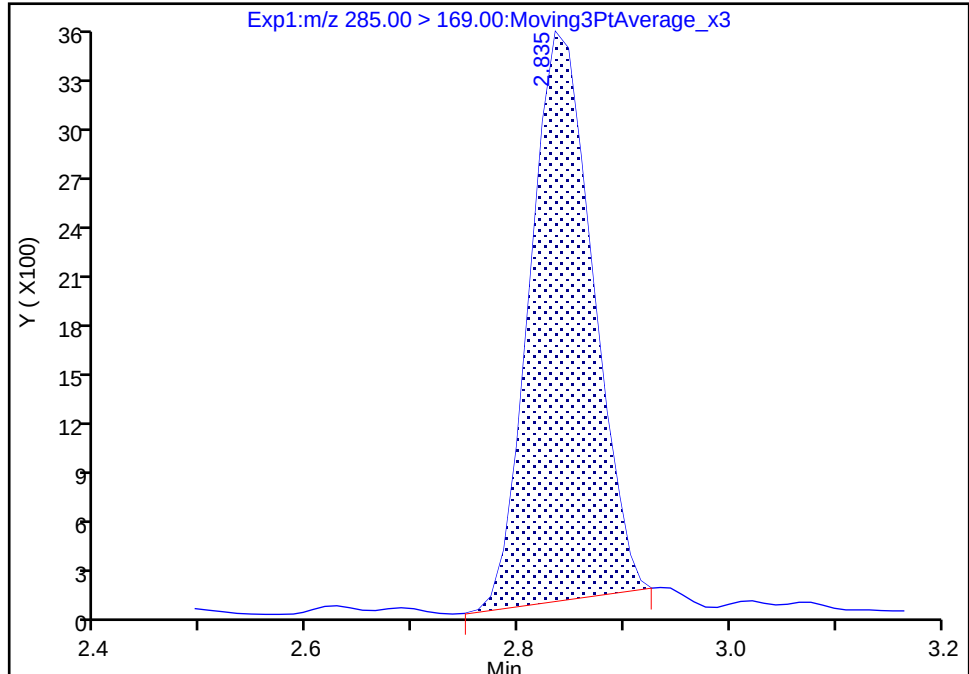
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

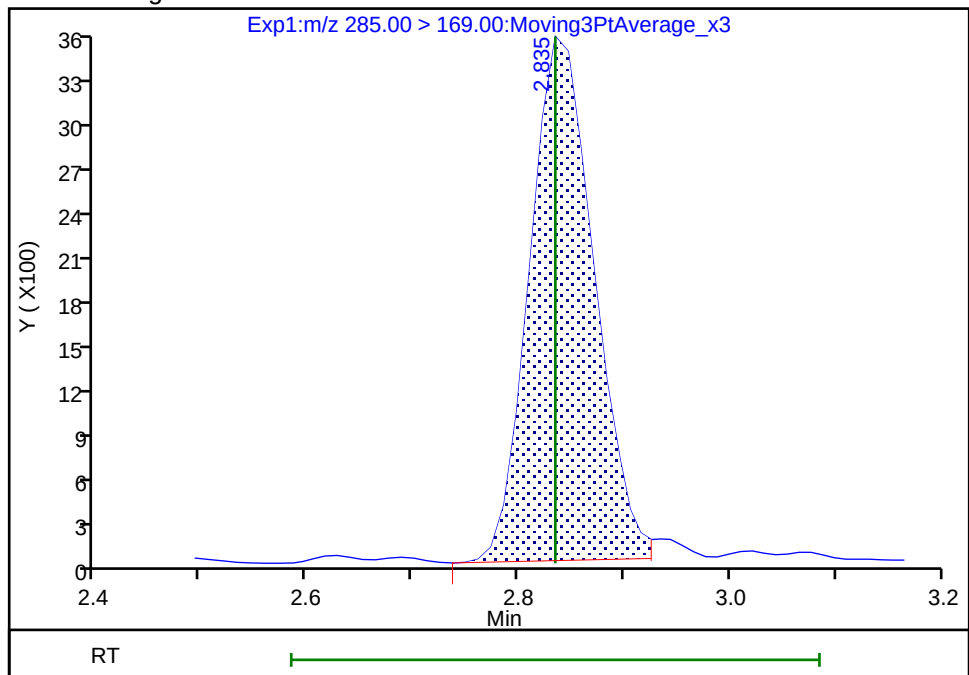
RT: 2.83
Area: 14159
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 14811
Amount: 0.051880
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

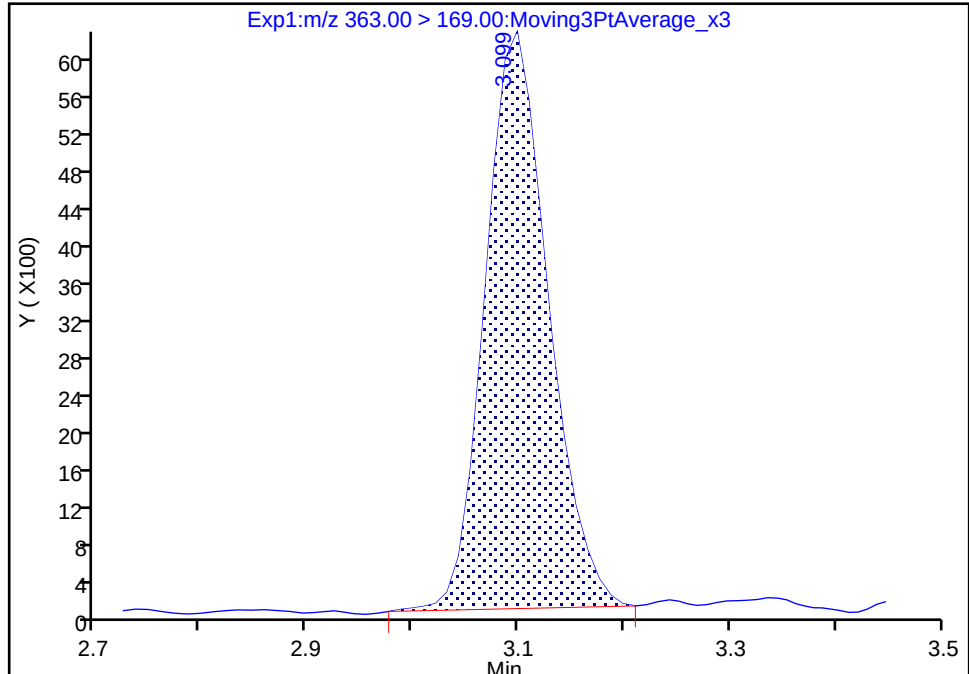
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

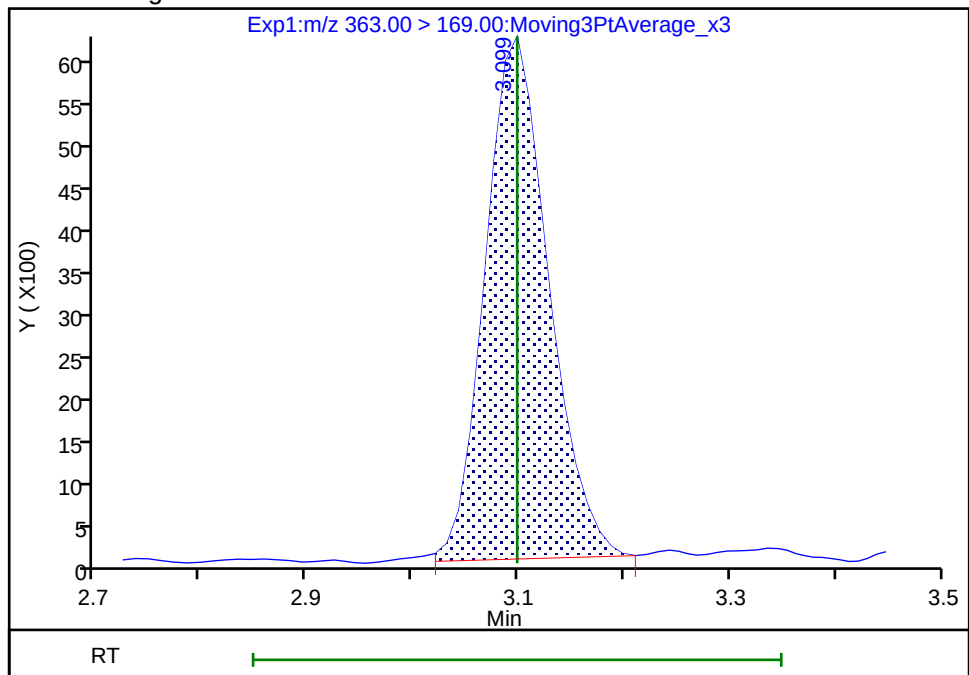
RT: 3.10
Area: 25598
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 25626
Amount: 0.054935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

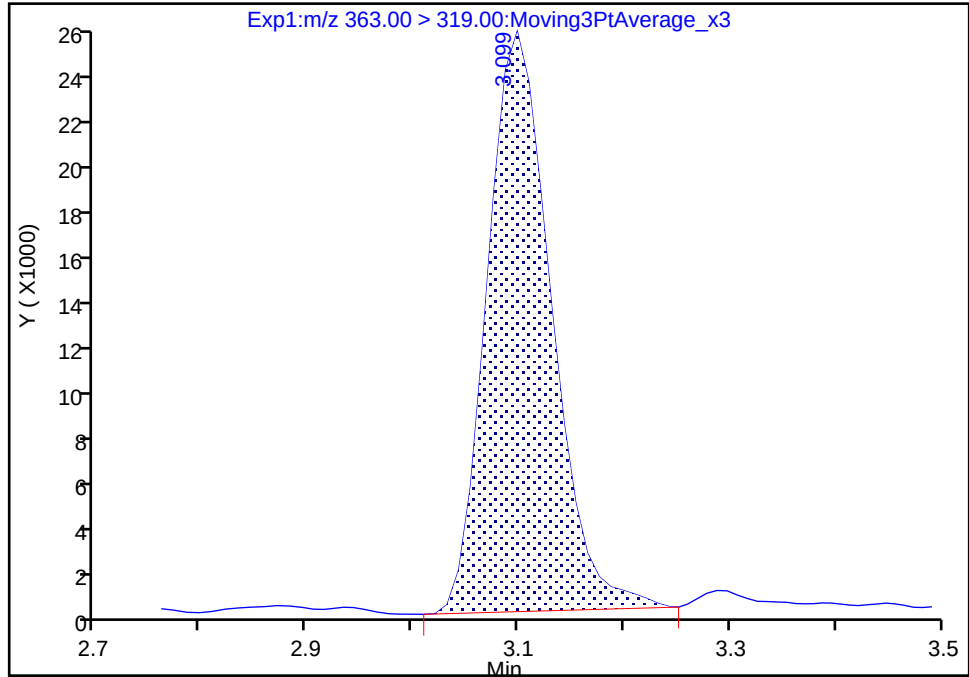
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

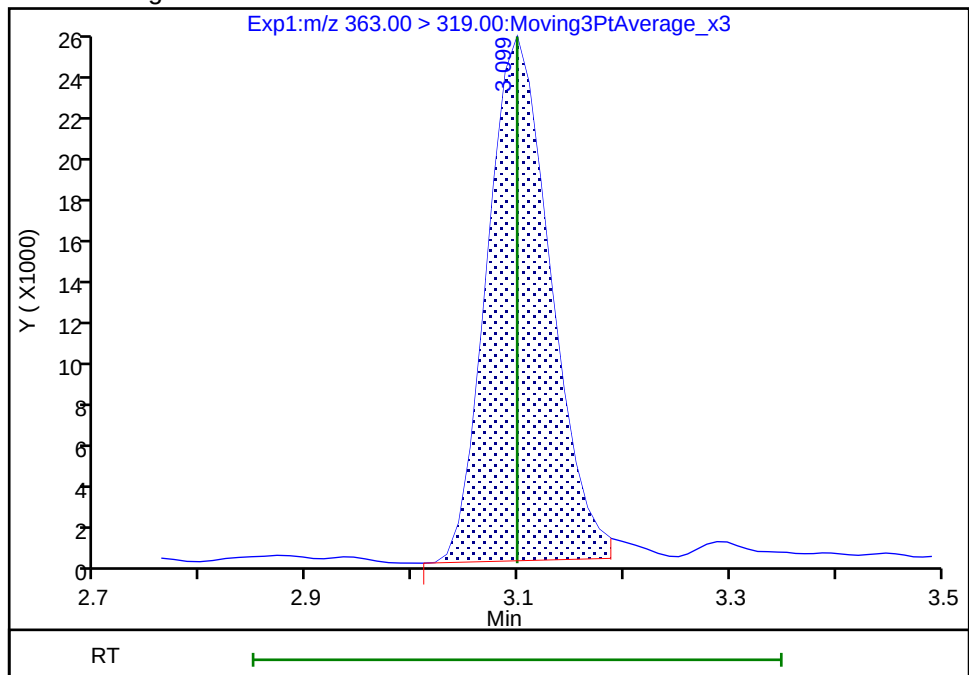
RT: 3.10
Area: 102094
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 100453
Amount: 0.054935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

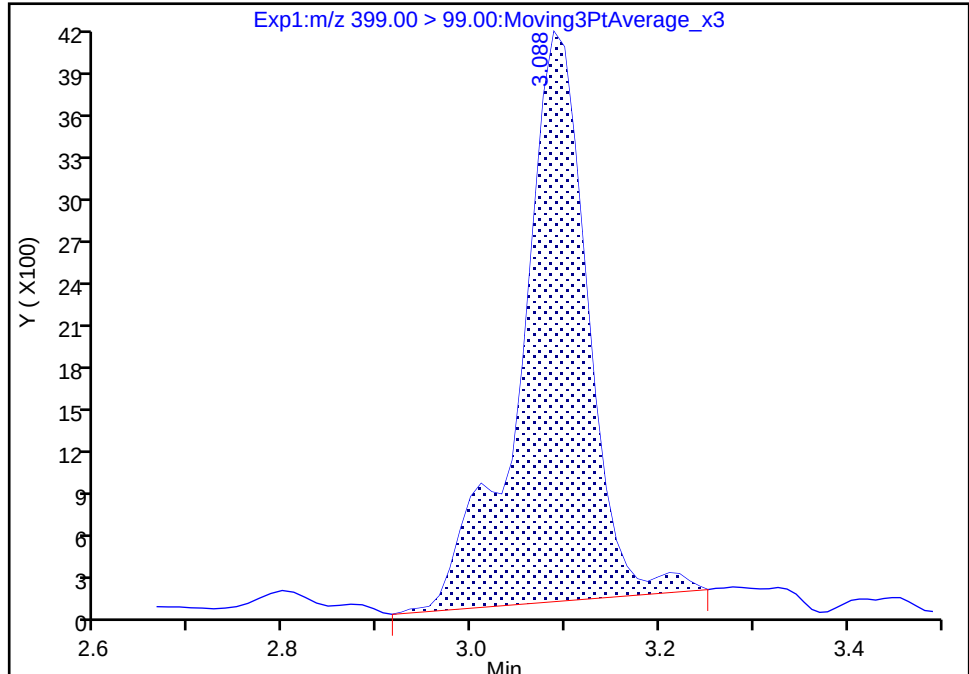
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

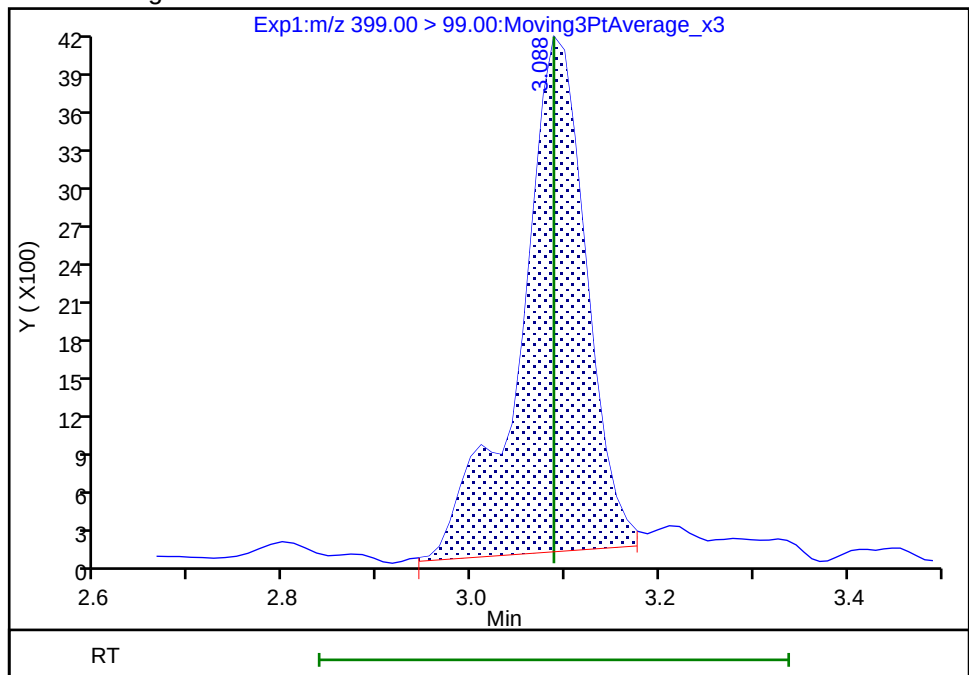
RT: 3.09
Area: 19897
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 19455
Amount: 0.049046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

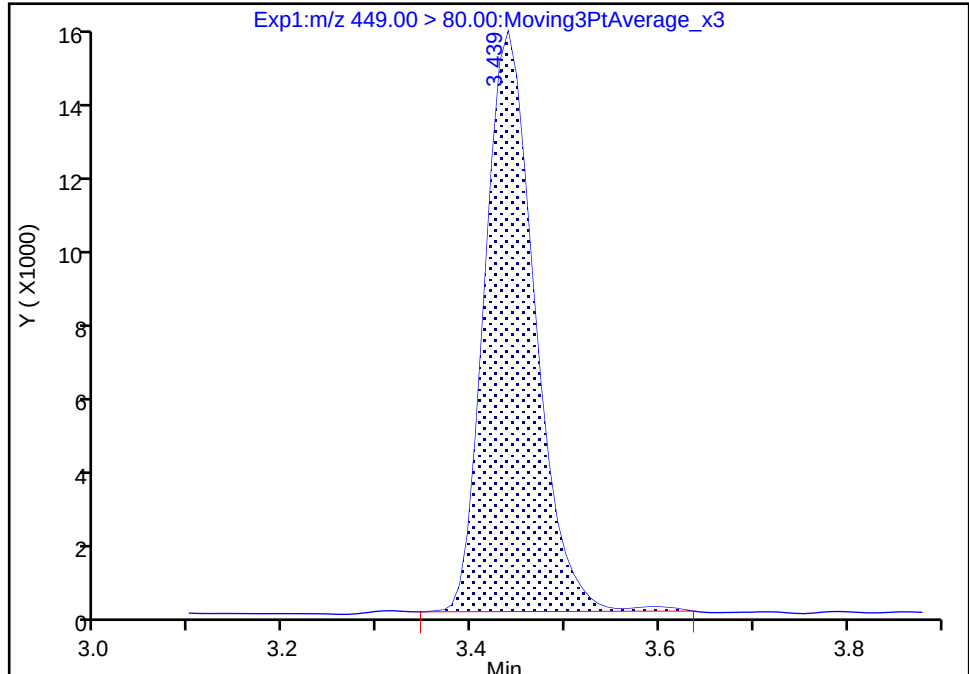
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

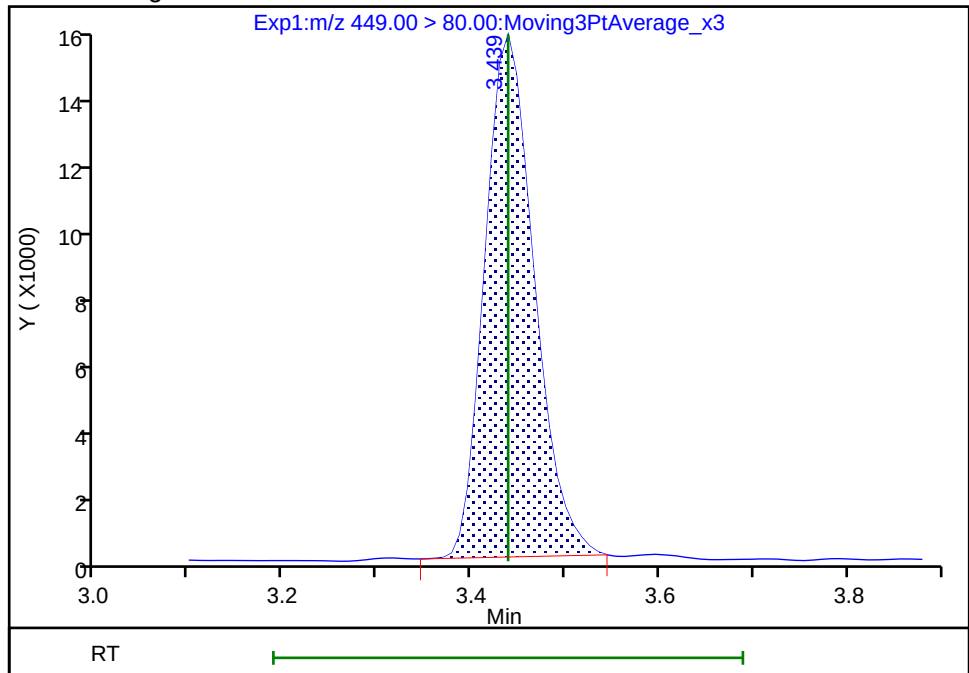
RT: 3.44
Area: 58353
Amount: 0.047600
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 57260
Amount: 0.049533
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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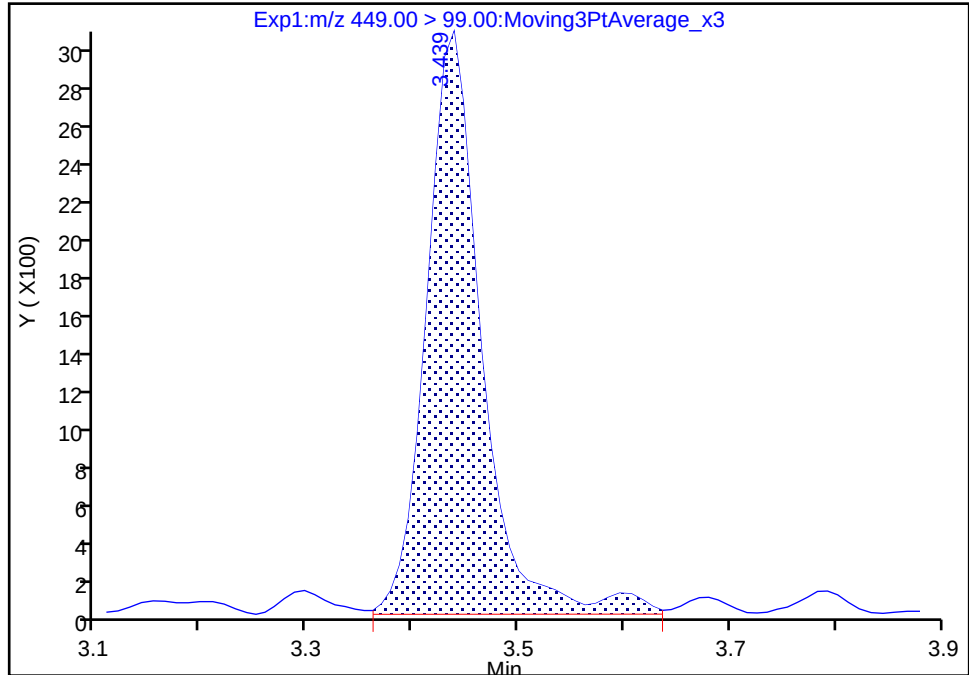
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

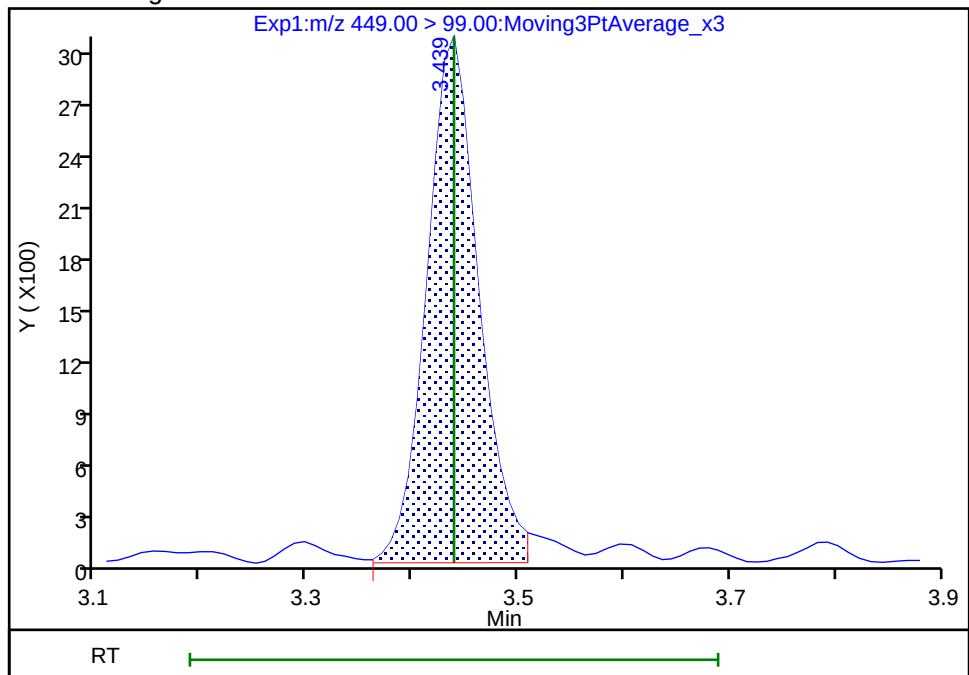
RT: 3.44
Area: 11226
Amount: 0.047600
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 10494
Amount: 0.049533
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

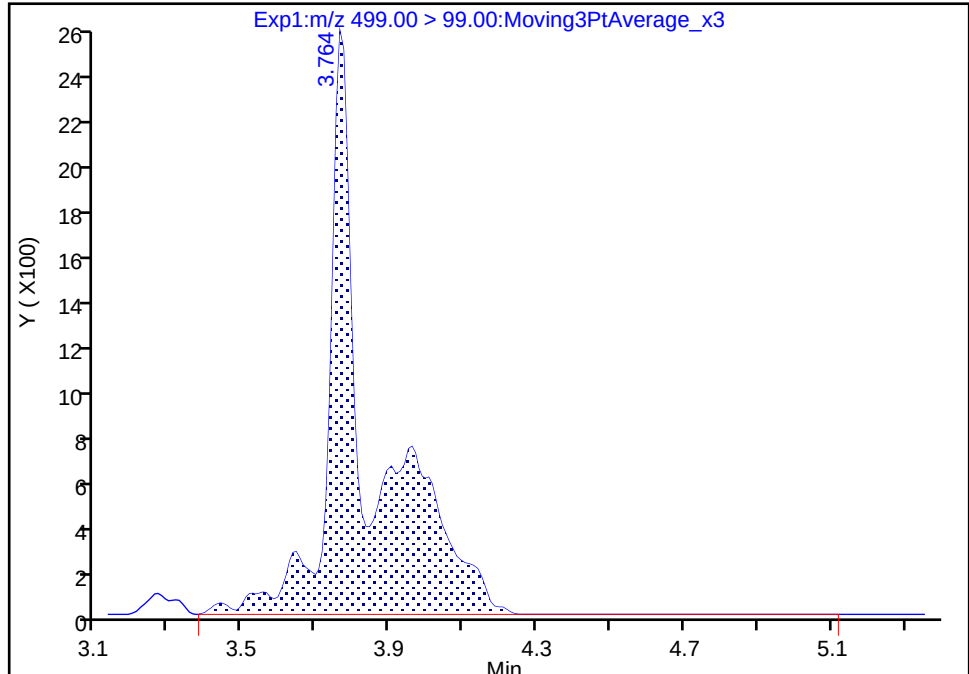
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

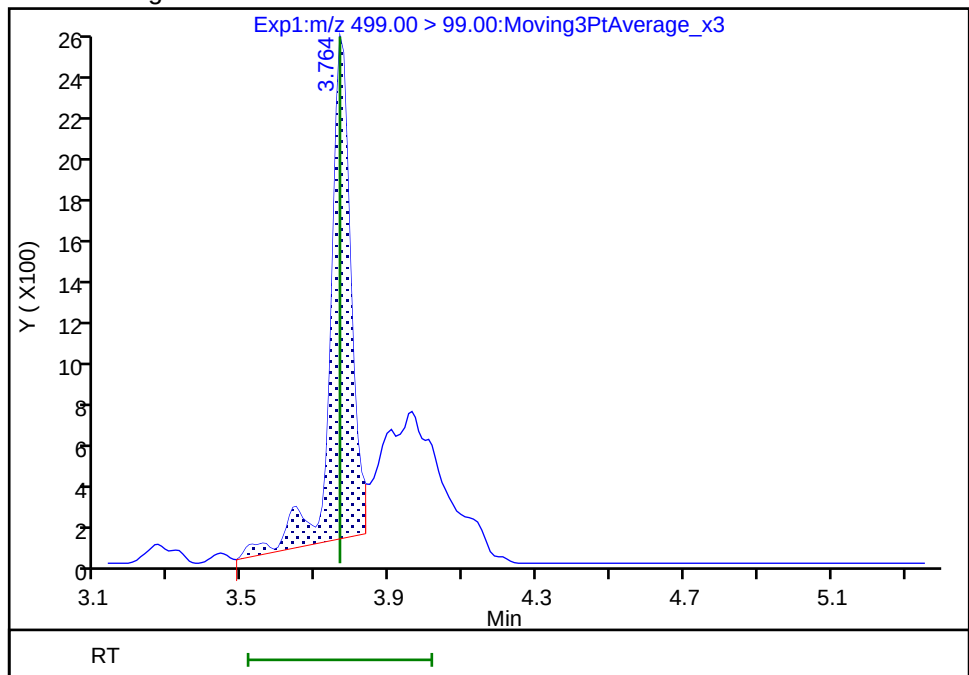
RT: 3.76
Area: 20272
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 9421
Amount: 0.052820
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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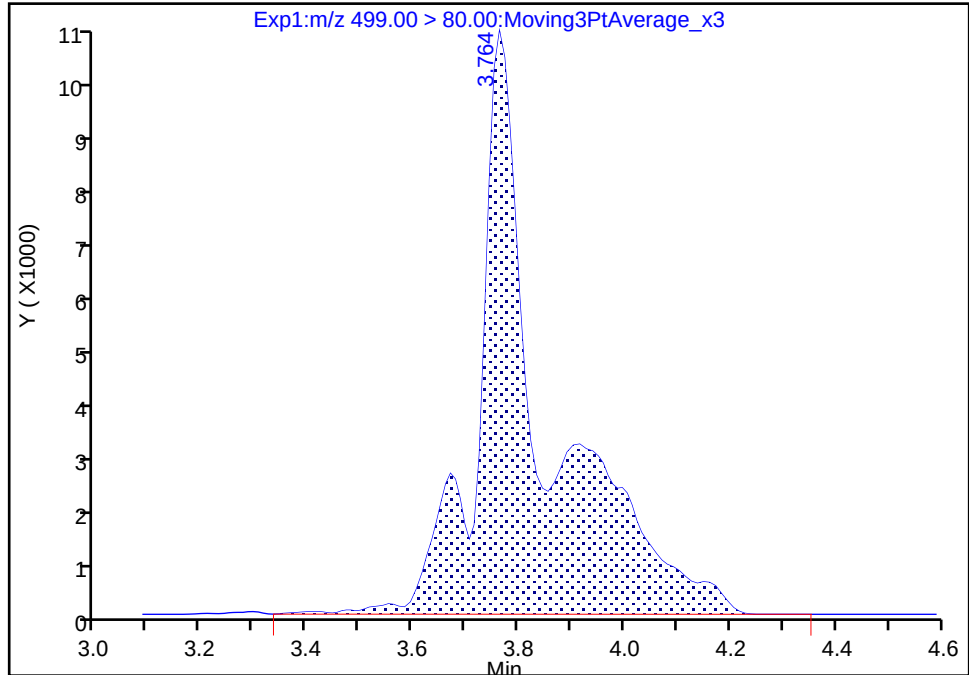
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

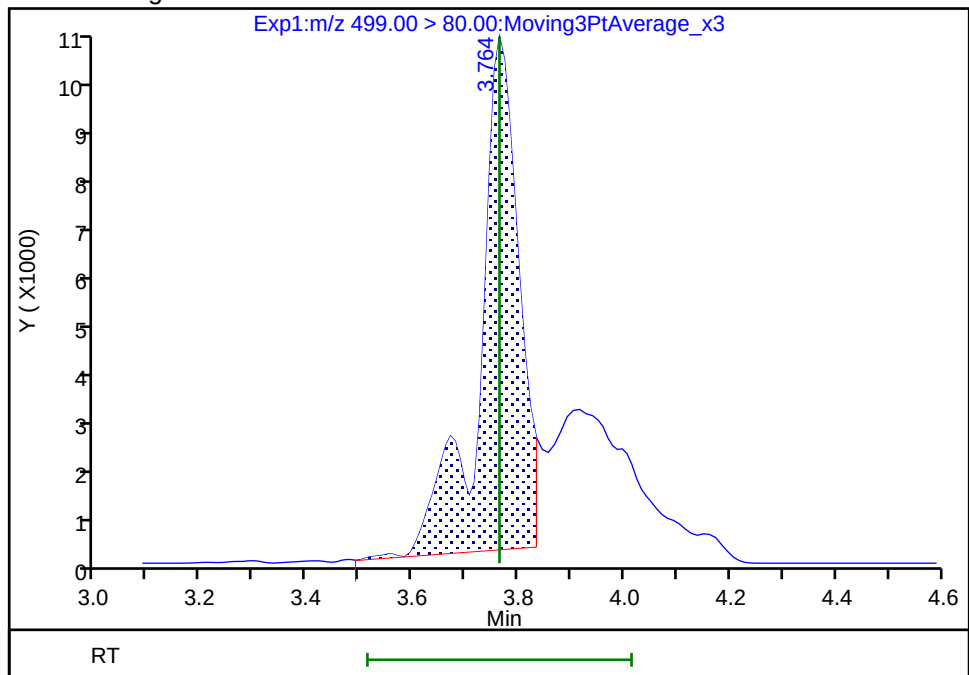
RT: 3.76
Area: 95043
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 53166
Amount: 0.052820
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:11:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

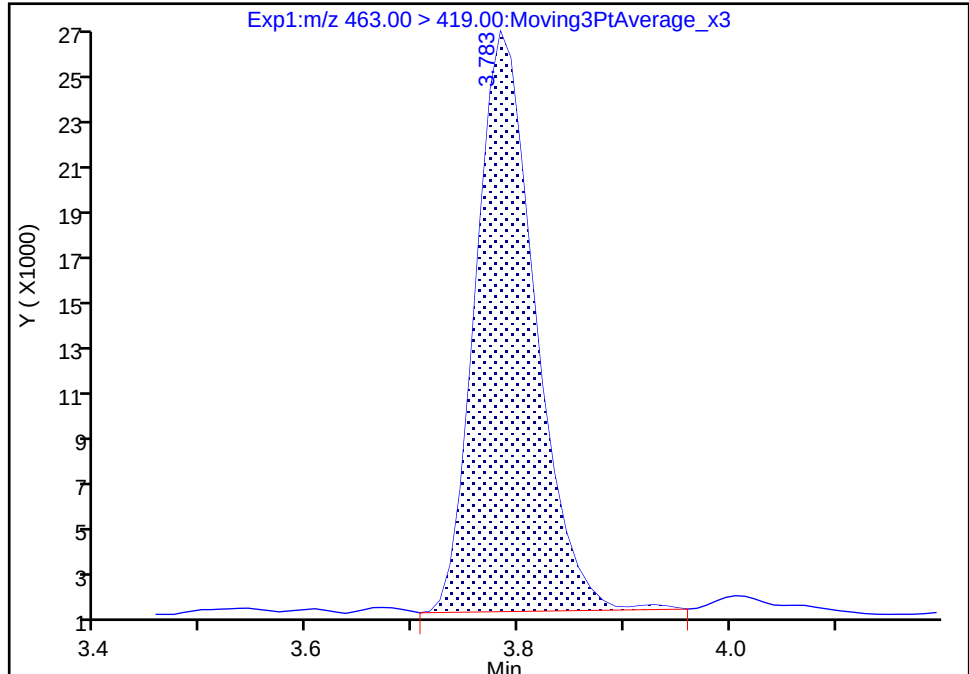
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

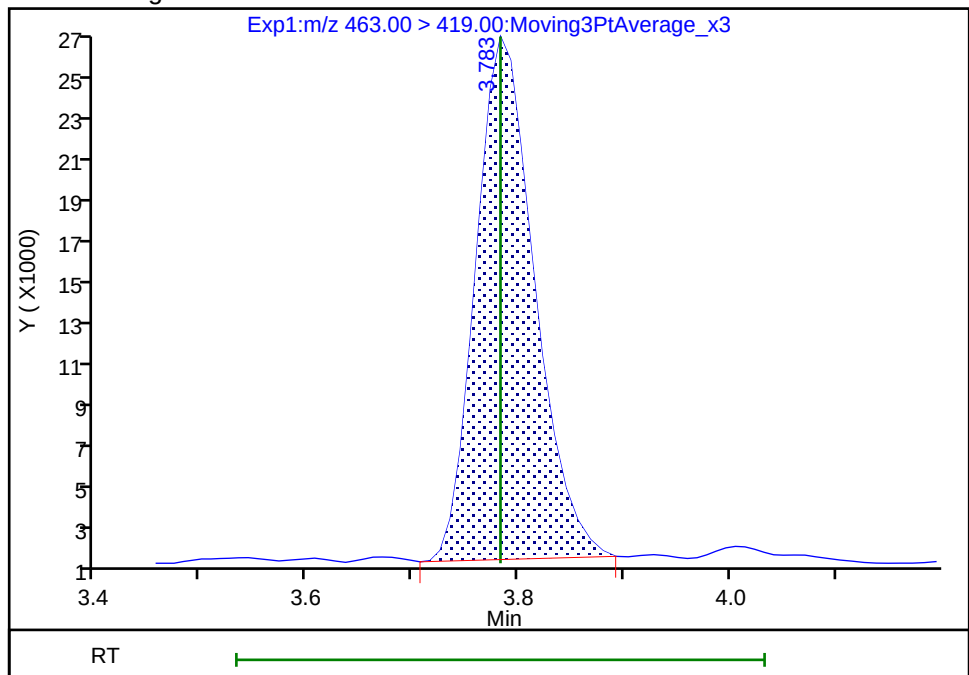
RT: 3.78
Area: 99415
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 98046
Amount: 0.051796
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

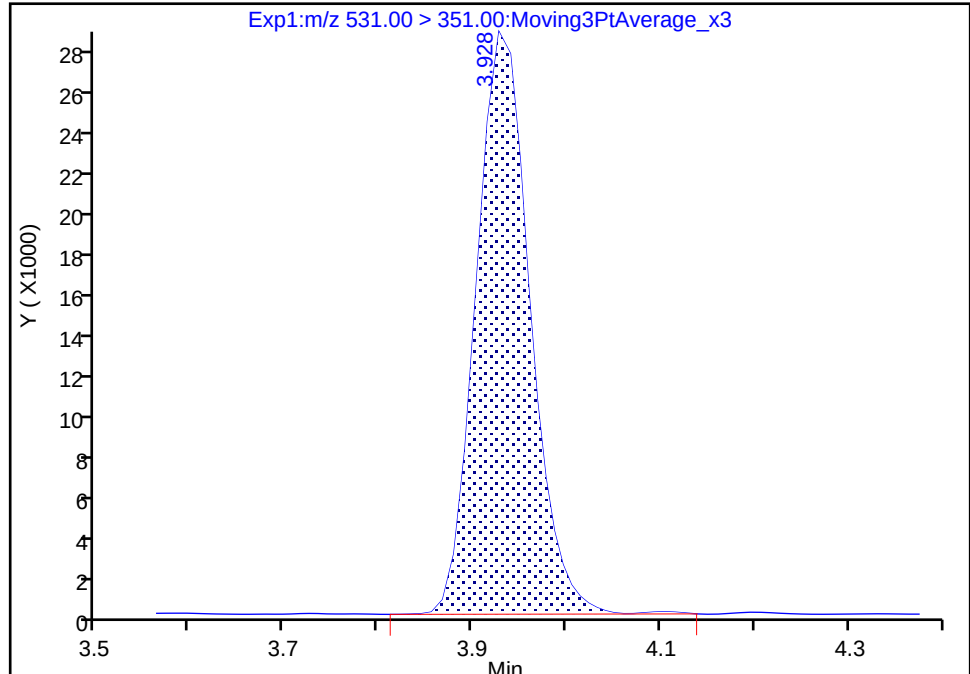
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

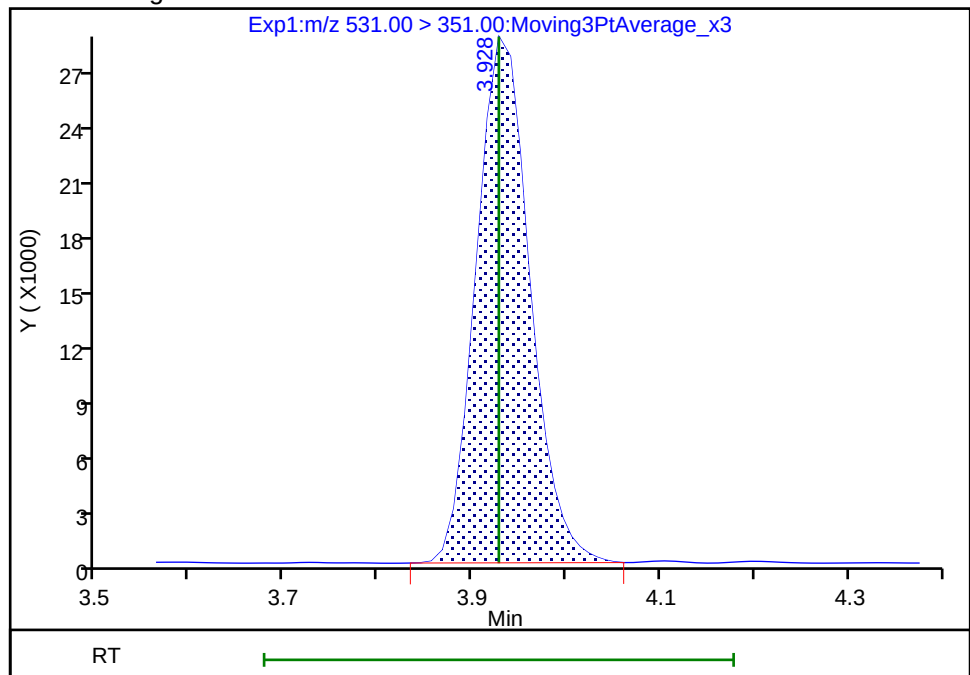
RT: 3.93
Area: 114530
Amount: 0.046600
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 114059
Amount: 0.049374
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:41
Audit Action: Manually Integrated

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Eurofins Burlington

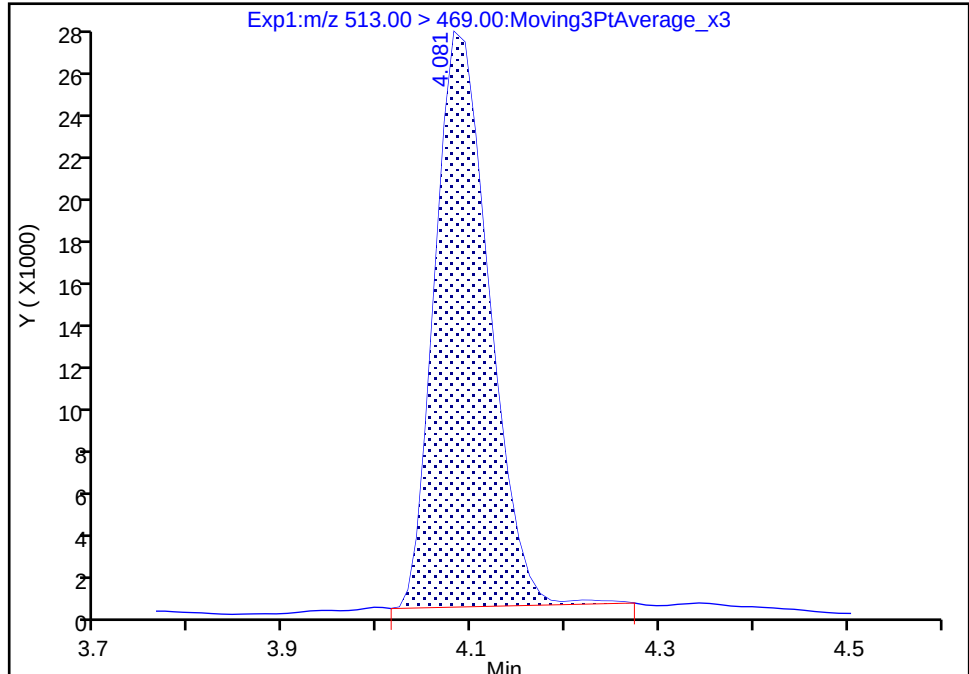
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

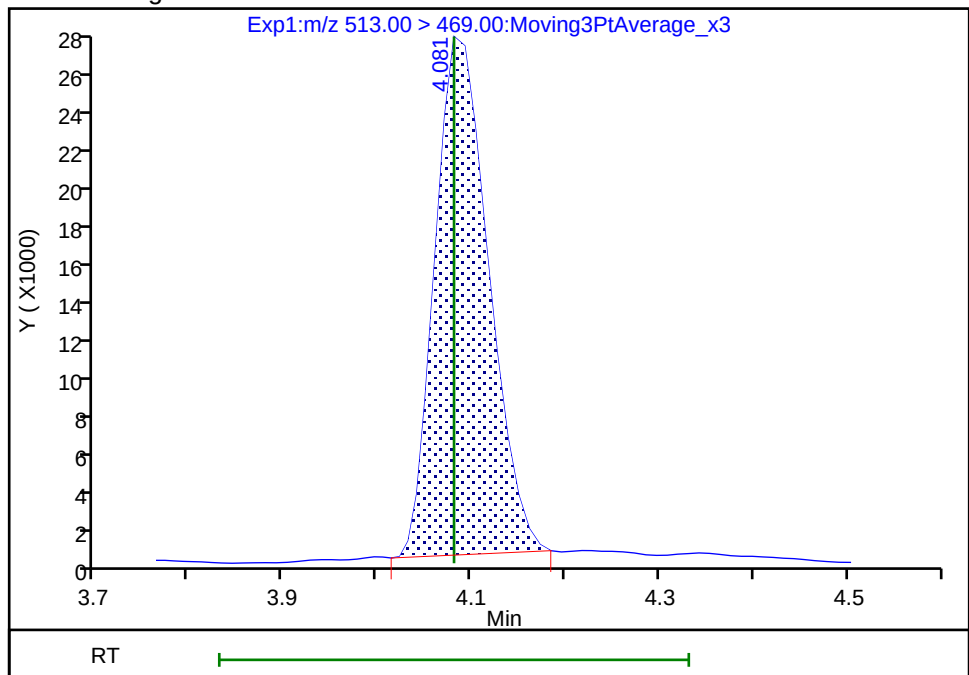
RT: 4.08
Area: 107153
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 105421
Amount: 0.053763
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

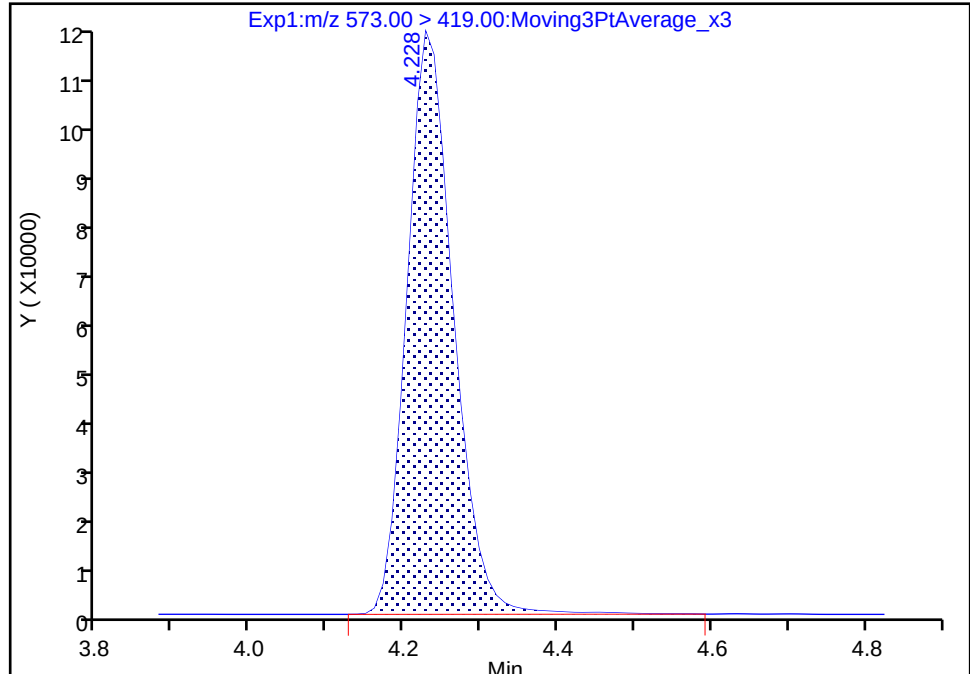
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

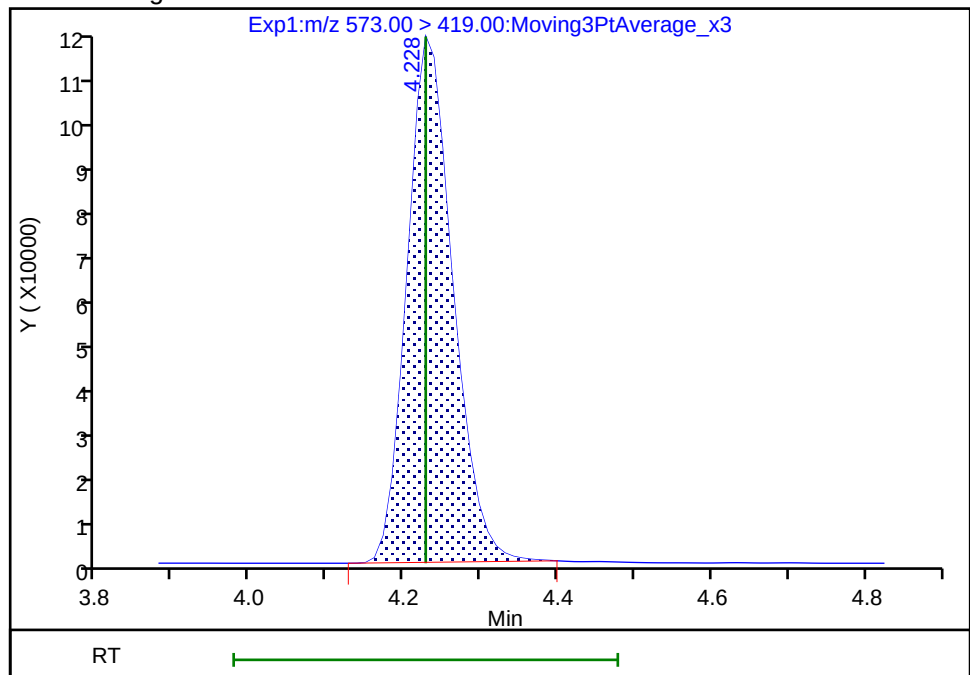
RT: 4.23
Area: 474177
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 467975
Amount: 1.245981
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:03
Audit Action: Manually Integrated

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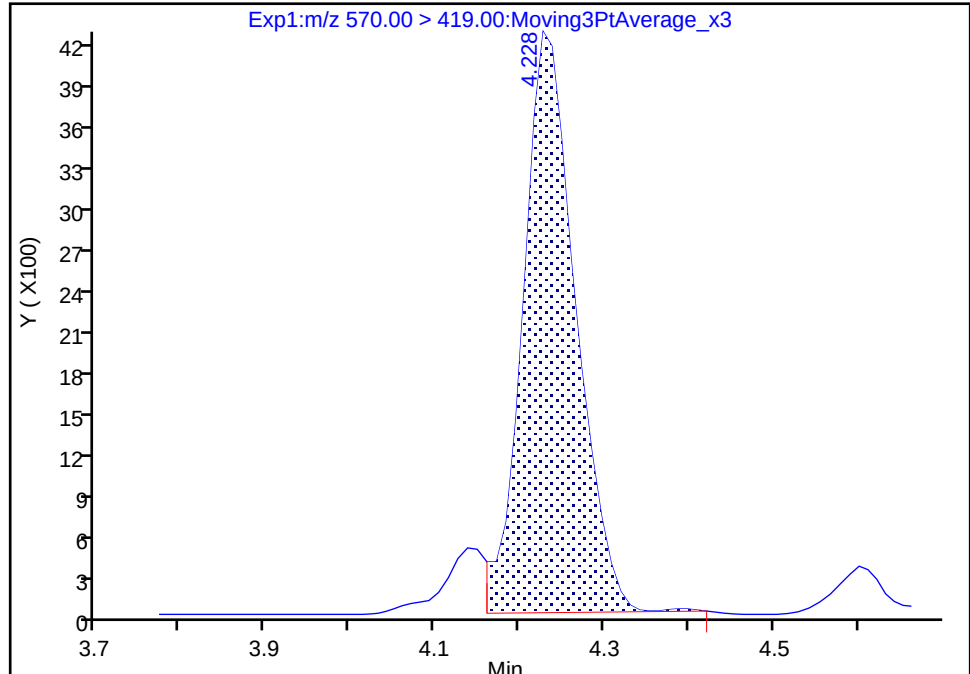
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

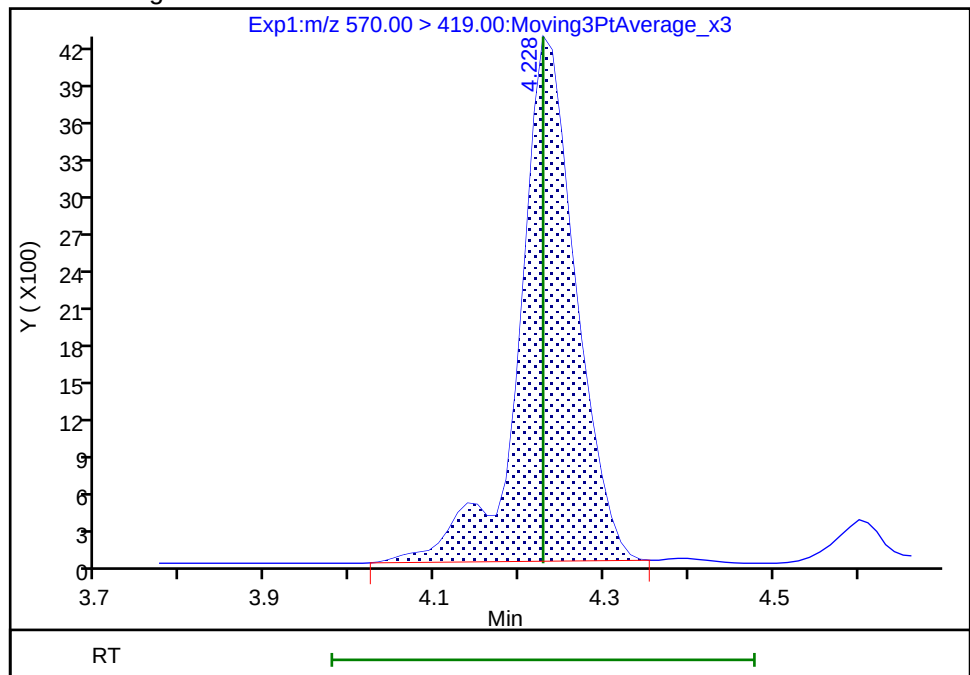
RT: 4.23
Area: 18117
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 19570
Amount: 0.049139
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:07
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Audit Reason: Incomplete Integration
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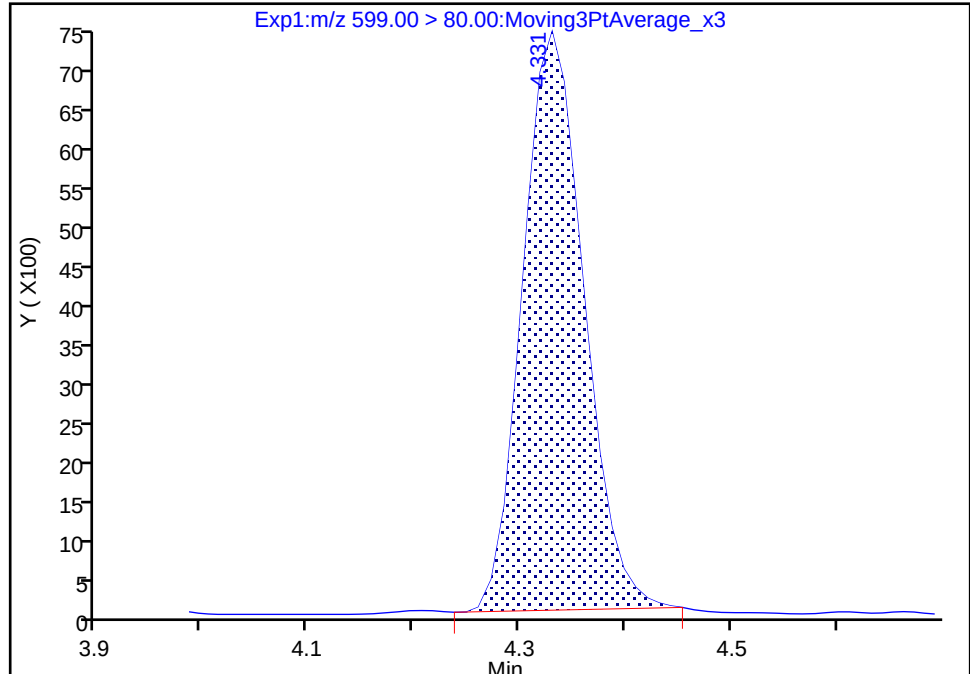
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

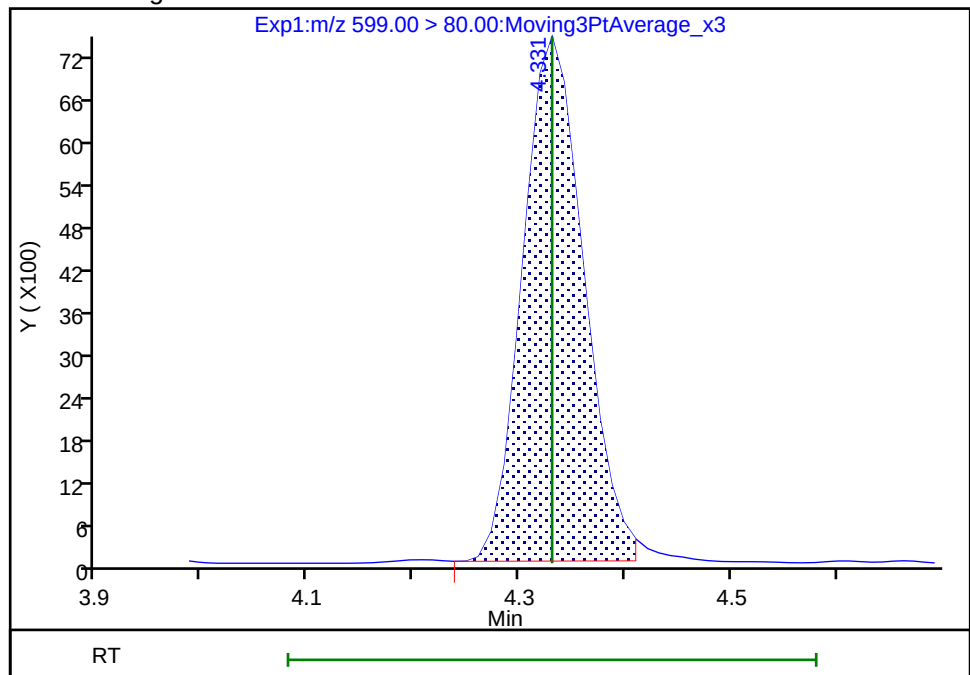
RT: 4.33
Area: 29832
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 29817
Amount: 0.049707
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:21
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Audit Reason: Incomplete Integration
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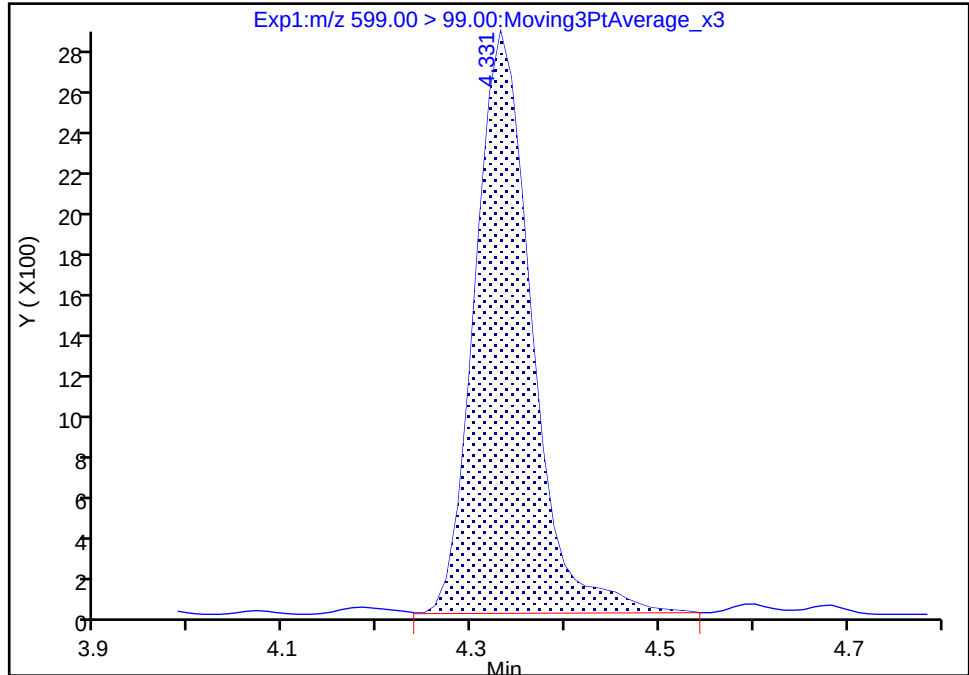
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

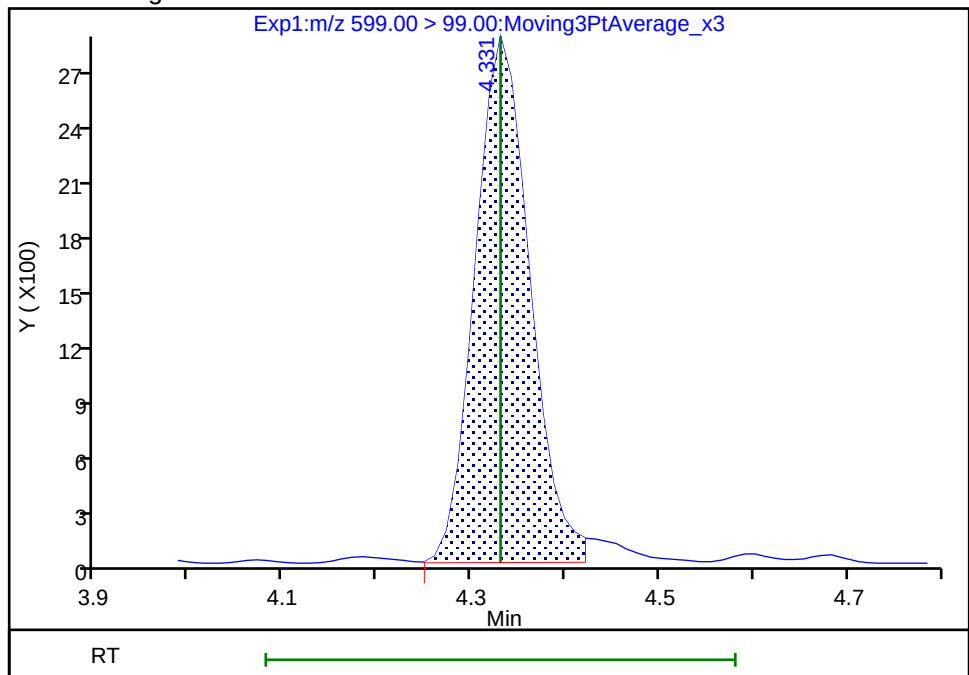
RT: 4.33
Area: 11882
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 11494
Amount: 0.049707
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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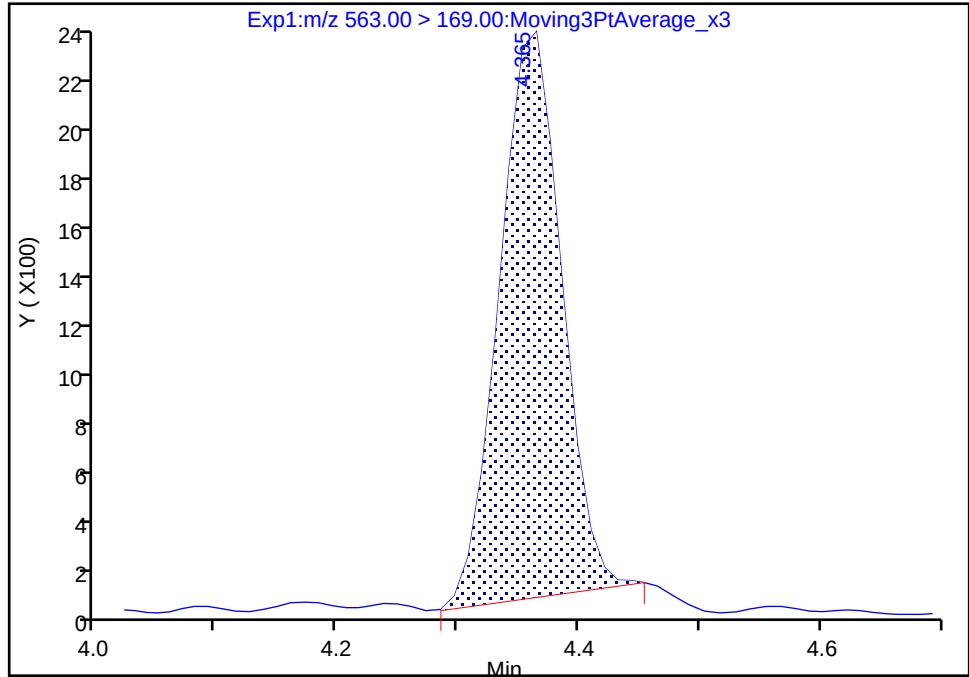
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

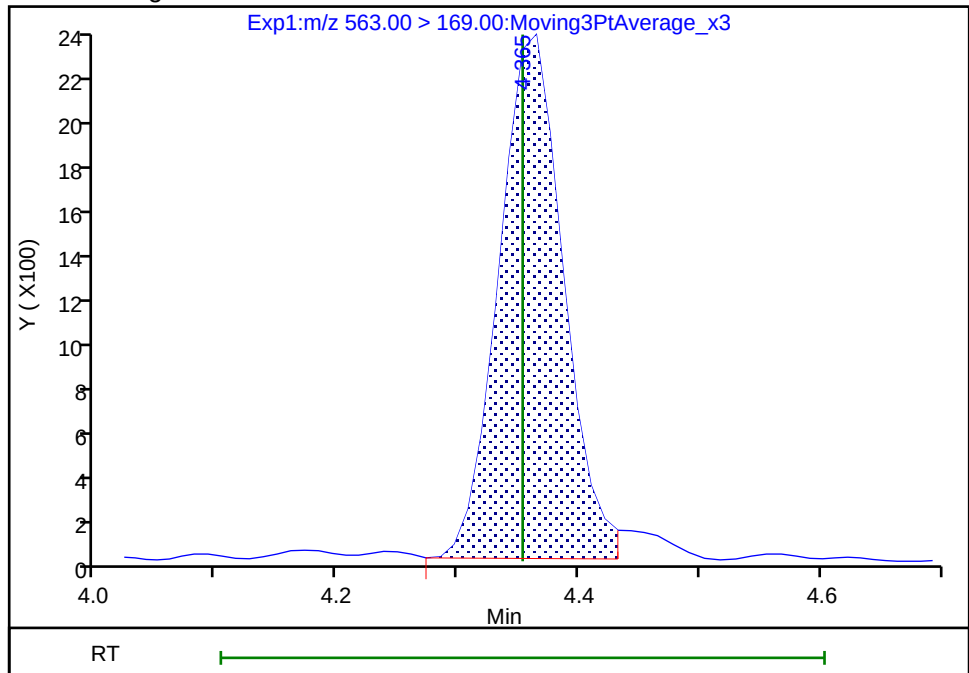
RT: 4.36
Area: 8199
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 8638
Amount: 0.051917
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:47
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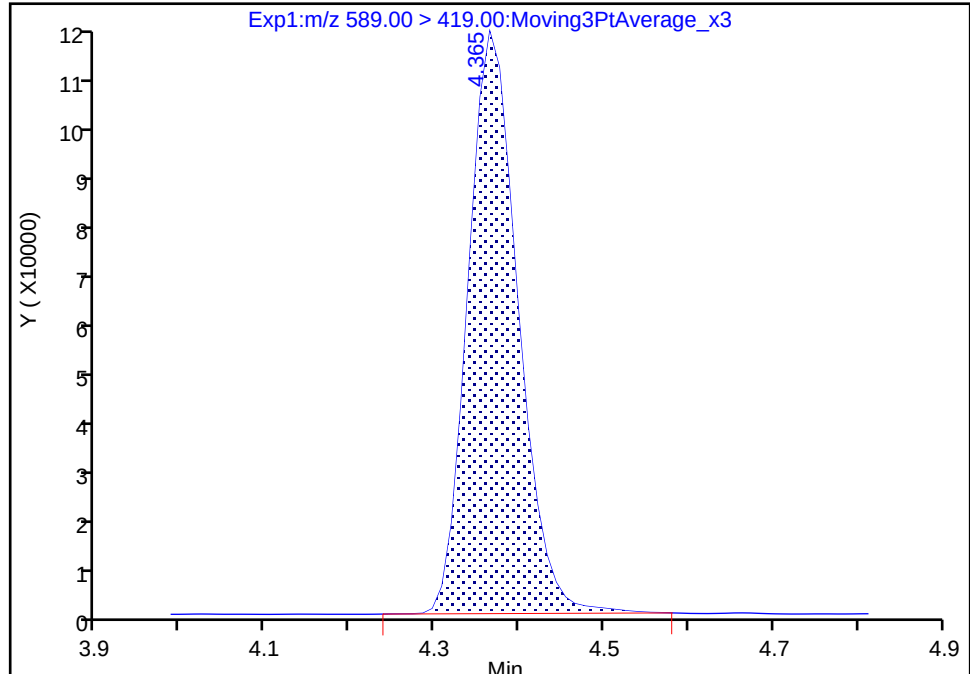
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

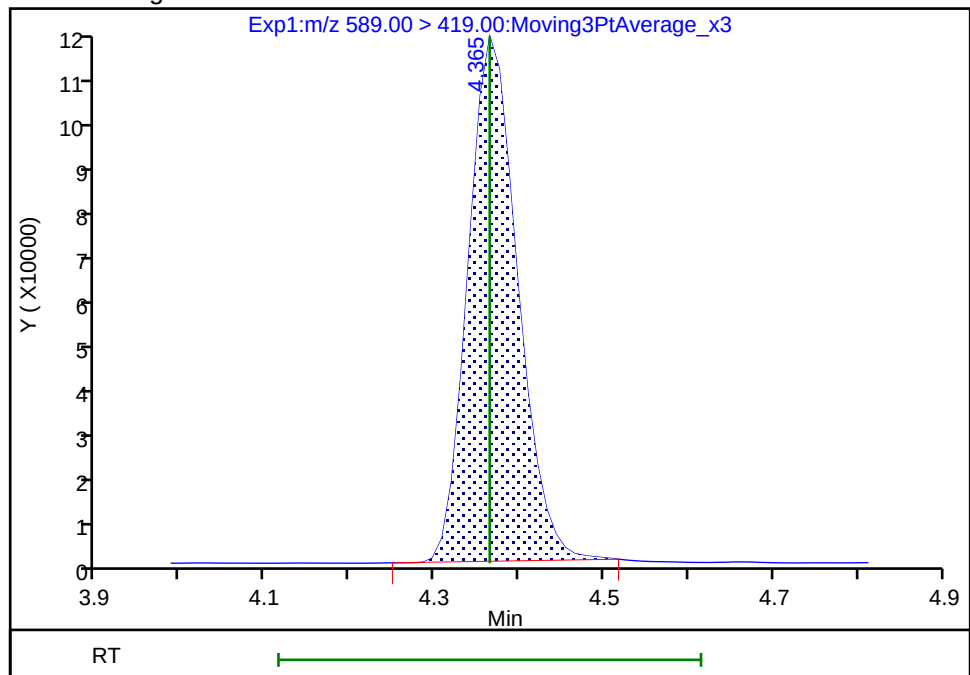
RT: 4.36
Area: 459600
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 453643
Amount: 1.226647
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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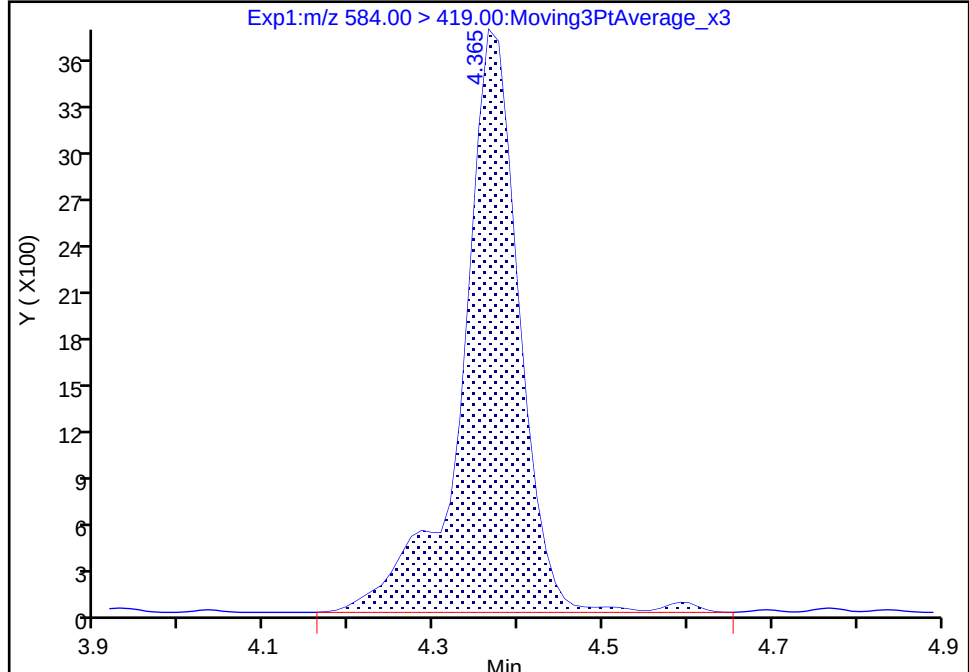
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

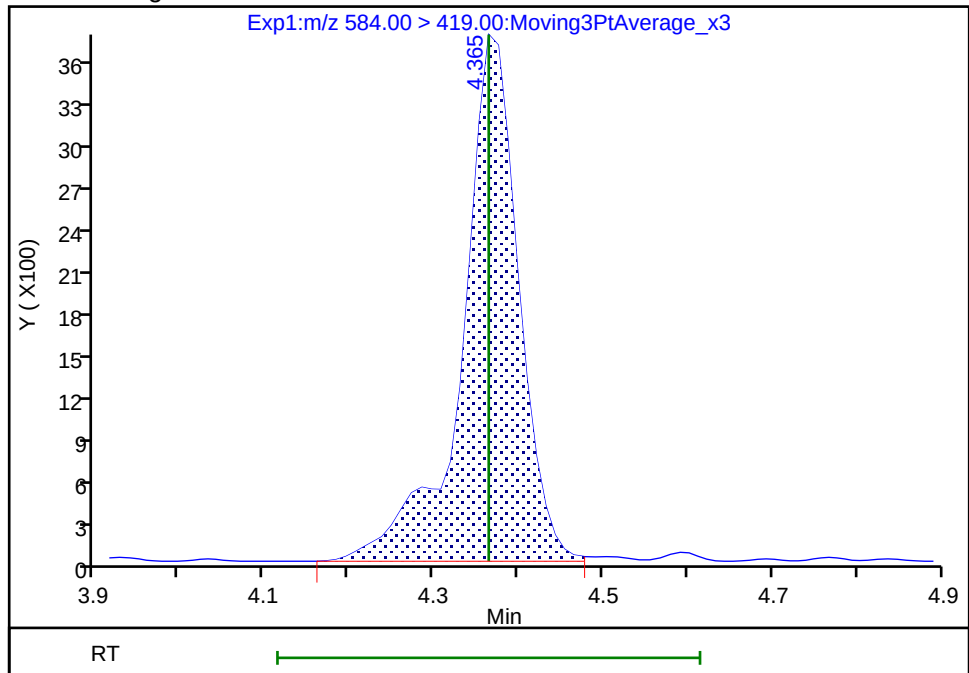
RT: 4.36
Area: 17811
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 17526
Amount: 0.053943
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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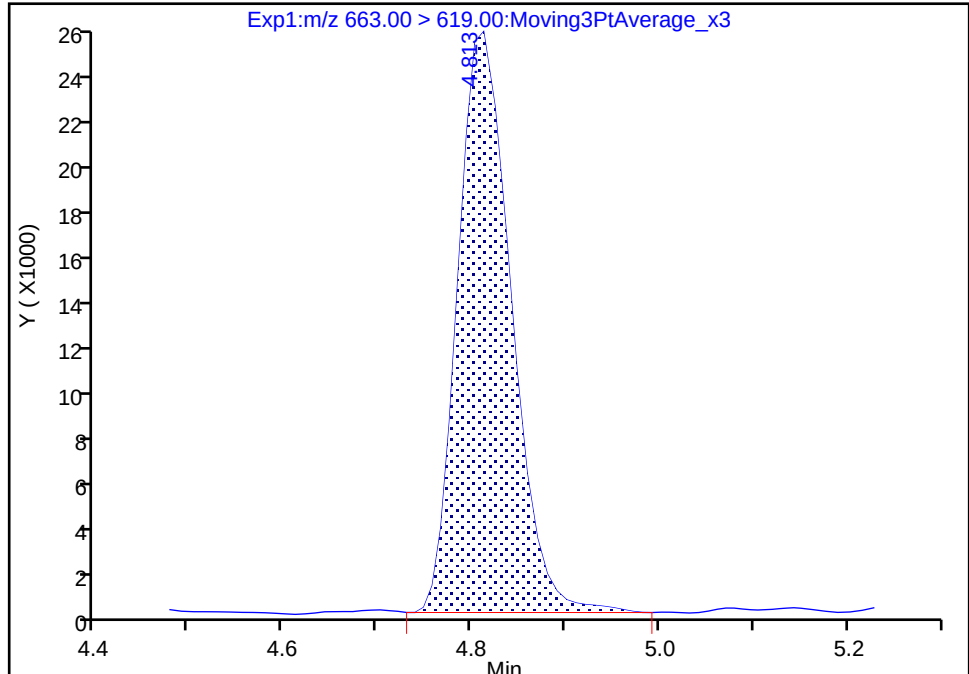
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

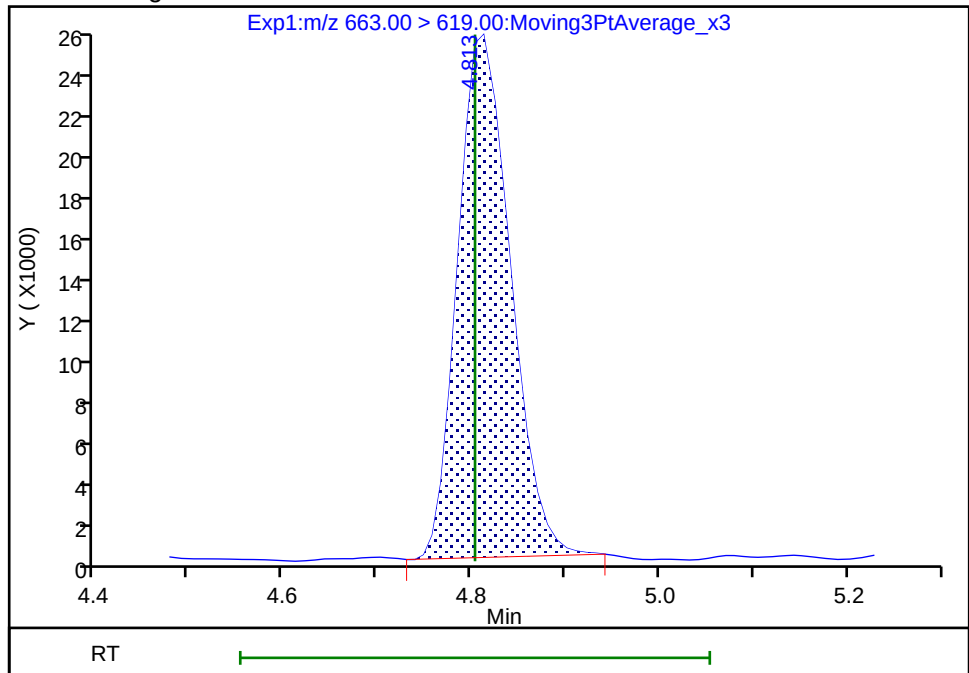
RT: 4.81
Area: 96503
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 94610
Amount: 0.053532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:31
Audit Action: Manually Integrated

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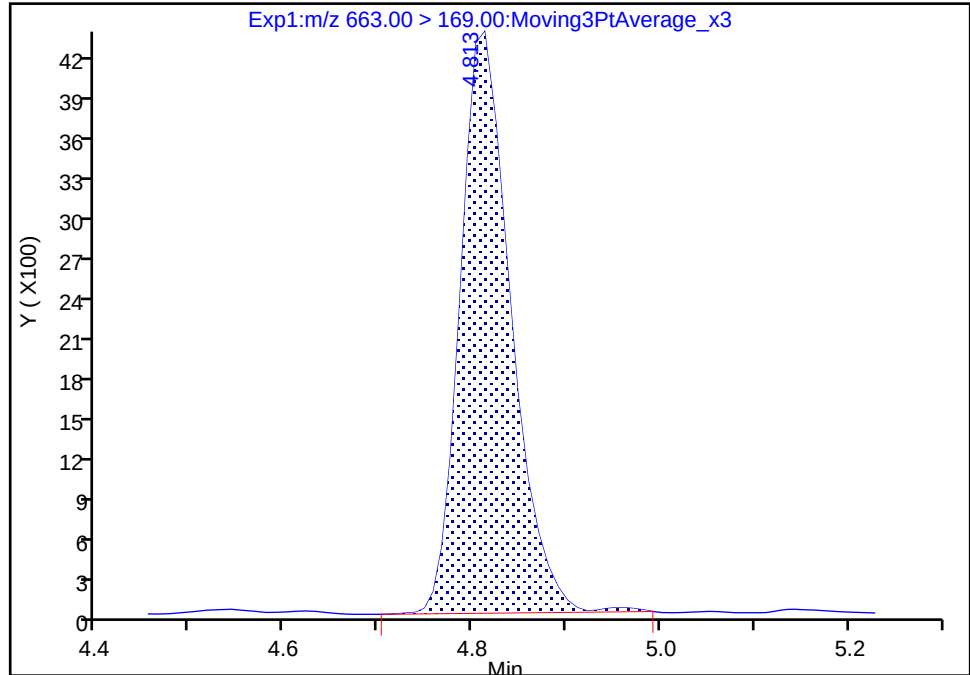
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

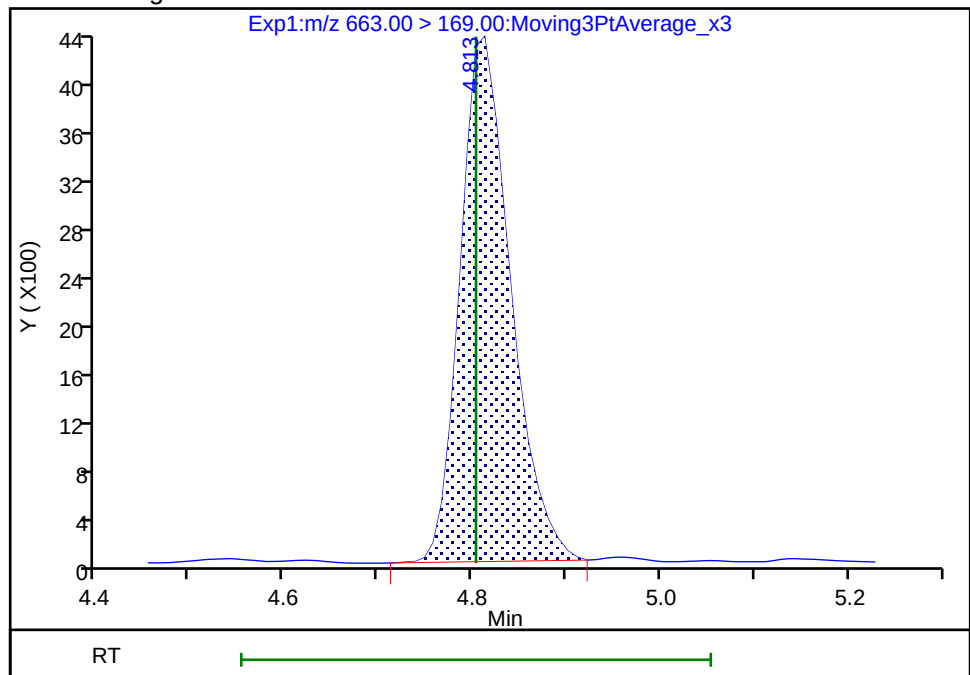
RT: 4.81
Area: 16454
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 16297
Amount: 0.053532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:34

Audit Action: Manually Integrated

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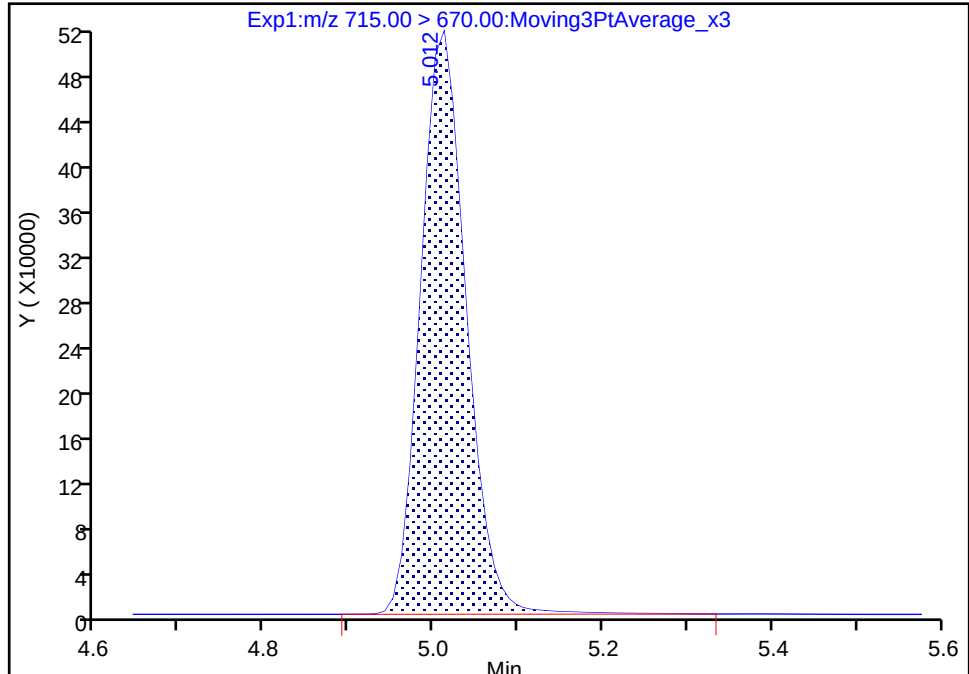
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

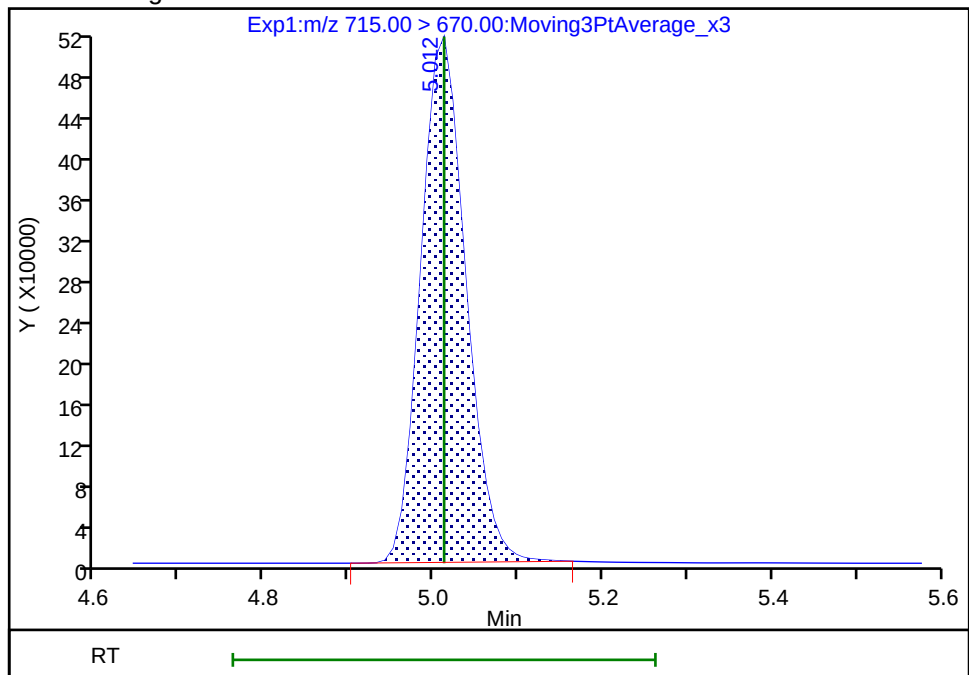
RT: 5.01
Area: 1903053
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1883348
Amount: 1.265294
Amount Units: ng/ml

Manual Integration Results



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Audit Action: Manually Integrated

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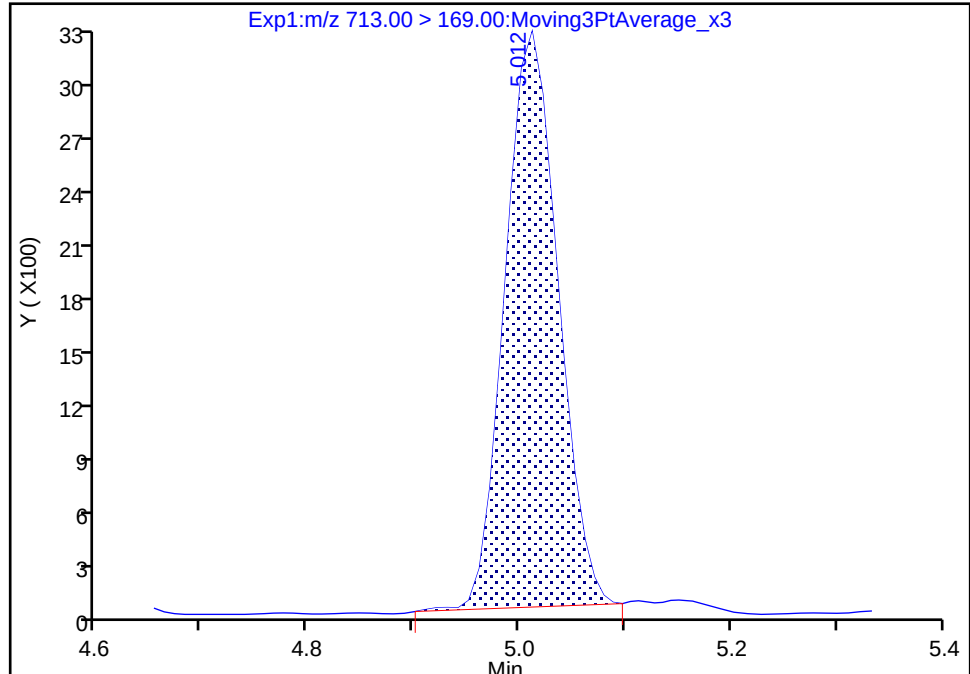
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

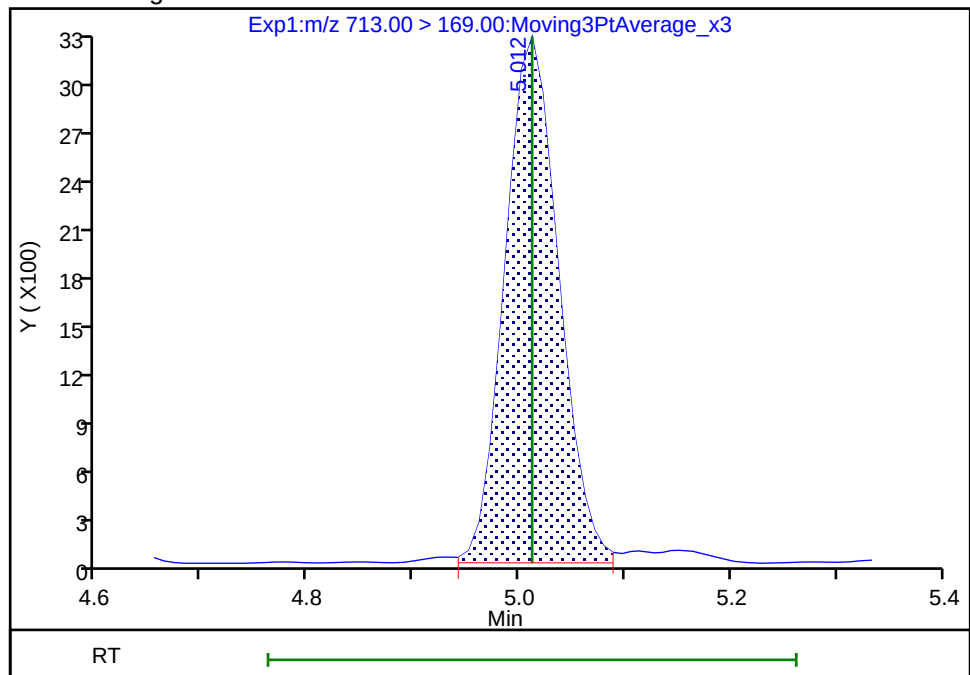
RT: 5.01
Area: 11187
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 11500
Amount: 0.055753
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Nov-2022 14:38:04 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 14:58:14

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	2.076	2.076	0.0	0.602	2583086	1.21		96.9	9408	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	236091	0.1108		111	21.0	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	1926794	1.19		94.9	3850	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	187282	0.1115		111	4.9	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1974243	1.12		96.2	328948	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	183390	0.0944	Target=2.14	107	309	
298.90 > 99.00	2.400	2.400	0.0	1.000	85972		2.13(1.07-3.21)	107	70.2	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	45908	0.0984		105	573	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	176875	1.13		97.1	179	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2057289	1.21		96.7	7228	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	191103	0.1066	Target=13.44	107	38.9	M
313.00 > 119.00	2.737	2.725	0.012	1.004	15417		12.40(6.72-20.15)	107	31.5	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	163879	0.0962	Target=2.98	103	479	
349.00 > 99.00	2.737	2.737	0.0	0.887	57172		2.87(1.49-4.47)	103	155	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	352715	1.17		93.9	2364	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	32429	0.1088		109	149	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1507942	1.17		99.2	4316	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.087	3.088	-0.001	1.000	130263	0.0905	Target=3.57	99.5	182	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	38491		3.38(1.78-5.35)	99.5	56.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.099	-0.001	0.899	2087570	1.19		95.4	3803	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.098	3.099	-0.001	1.000	194803	0.1071	Target=3.93	107	42.8	
363.00 > 169.00	3.098	3.099	-0.001	1.000	47936		4.06(1.96-5.89)	107	94.2	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	483450	0.1038	Target=3.08	110	566	
377.00 > 85.00	3.132	3.132	0.0	0.832	147632		3.27(1.54-4.62)	110	242	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.439	-0.001	0.997	254748	1.18		99.5	767	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.439	-0.001	1.000	45963	0.0896		94.5	167	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.438	3.439	-0.001	0.914	121399	0.1028	Target=5.16	108	441	M
449.00 > 99.00	3.438	3.439	-0.001	0.914	23934		5.07(2.58-7.74)	108	110	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2369406	1.20		96.3	3967	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2377284	1.25			4122	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.446	3.448	-0.002	1.000	206480	0.1019	Target=2.82	102	15.9	
413.00 > 169.00	3.446	3.448	-0.002	1.000	71984		2.87(1.41-4.23)	102	117	M
D 18 13C4 PFOS										
503.00 > 80.00	3.762	3.764	-0.002	1.092	1010315	1.16		96.9	3177	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.762	3.764	-0.002	1.000	105528	0.1026	Target=5.01	111	19.8	M
499.00 > 99.00	3.762	3.764	-0.002	1.000	20524		5.14(2.50-7.51)	111	18.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.781	3.783	-0.002	1.097	2362013	1.23		98.8	5871	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.781	3.783	-0.002	1.000	201460	0.1028	Target=8.49	103	42.2	M
463.00 > 169.00	3.781	3.783	-0.002	1.000	23149		8.70(4.25-12.74)	103	158	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	230911	0.0979		105	881	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	79193	0.1020	Target=2.60	106	665	
549.00 > 99.00	4.060	4.050	0.010	1.079	30661		2.58(1.30-3.90)	106	228	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.184	2439344	1.25		100	2392	M

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	4.081	0.0	1.000	217999	0.1030	Target=10.03	103	91.5	
513.00 > 169.00	4.081	4.081	0.0	1.000	22750		9.58(5.02-15.05)	103	49.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.187	307241	1.16		97.3	979	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	41049	0.0989		103	314	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	172977	0.1090		109	454	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1899612	1.19		95.1	1746	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.227	478399	1.21		96.4	1389	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	34156	0.0921		92.1	69.3	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	60768	0.0992	Target=2.58	103	528	
599.00 > 99.00	4.319	4.331	-0.012	1.148	26777		2.27(1.29-3.86)	103	451	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	176444	0.1033	Target=10.10	103	79.0	M
563.00 > 169.00	4.353	4.353	0.0	1.000	17359		10.16(5.05-15.15)	103	193	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2119319	1.19		95.0	2896	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	-0.001	1.000	36650	0.1062		106	294	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	-0.001	1.266	481823	1.23		98.6	823	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.184	370183	0.1018		108	942	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	194829	0.1069	Target=7.41	107	14.3	M
613.00 > 169.00	4.591	4.591	0.0	1.000	26866		7.25(3.70-11.11)	107	229	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2150435	1.18		94.6	2247	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	24005	0.0963		99.9	288	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	26552	0.1024	Target=0.51	106	356	M
699.00 > 99.00	4.776	4.776	0.0	1.269	51408		0.52(0.25-0.76)	106	502	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.803	4.804	-0.001	1.046	189059	0.1085	Target=5.40	108	14.6	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	34380		5.50(2.70-8.10)	108	228	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	21567	0.1016	Target=0.90	102	213	
713.00 > 219.00	5.002	5.012	-0.010	0.998	23639		0.91(0.45-1.35)	102	321	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	1938056	1.23		98.6	1755	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	5.366	5.367	-0.001	1.557	2401907	1.24		98.8	4376	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.366	5.367	-0.001	1.000	206119	0.0996	Target=5.85	99.6	19.0	
813.00 > 169.00	5.366	5.367	-0.001	1.000	34091		6.05(2.93-8.78)	99.6	238	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.722	0.0	1.066	159361	0.1007	Target=6.30	101	19.9	M
913.00 > 169.00	5.722	5.722	0.0	1.066	24213		6.58(3.15-9.46)	101	250	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d

Injection Date: 18-Nov-2022 14:38:04

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

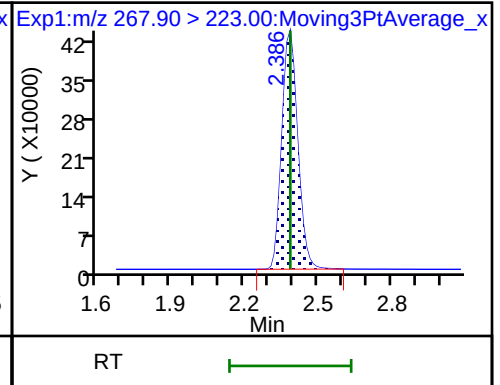
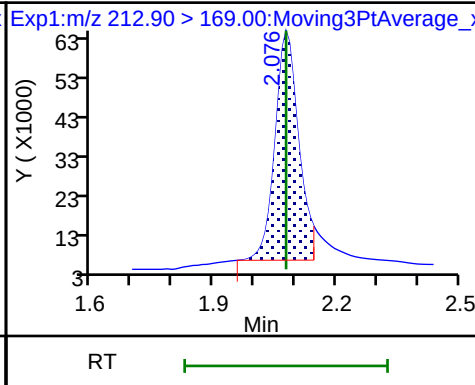
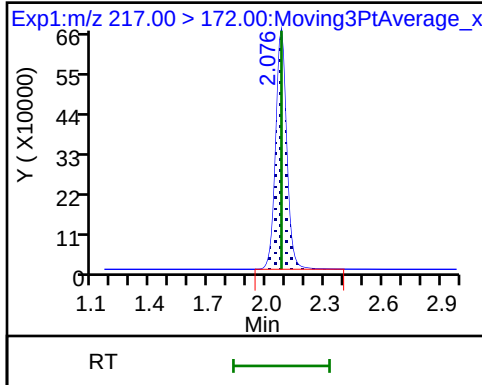
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

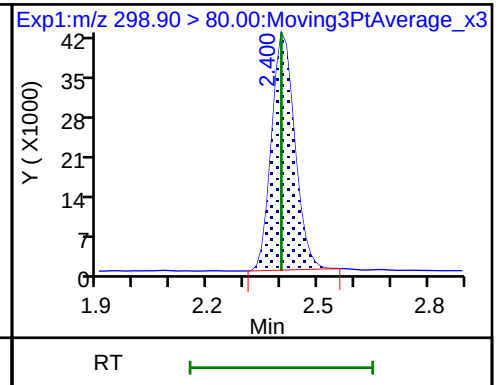
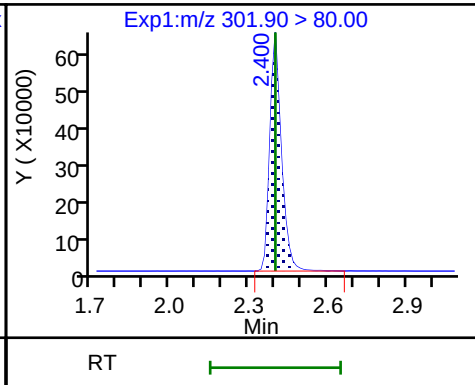
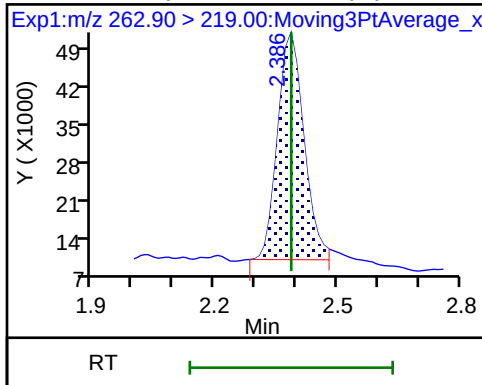
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

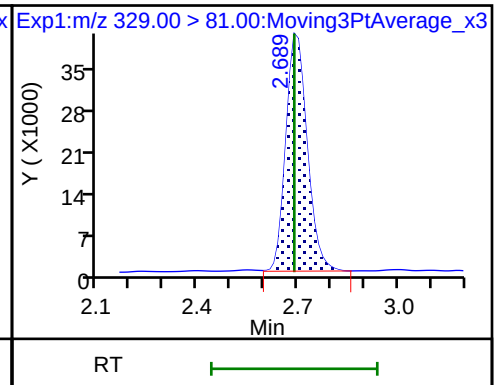
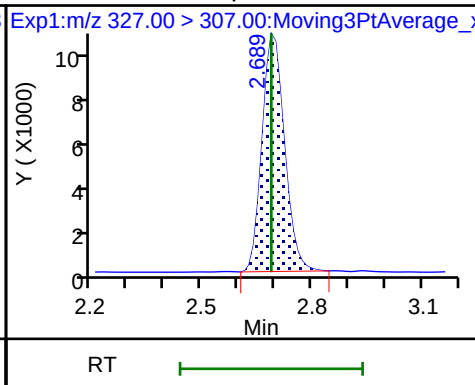
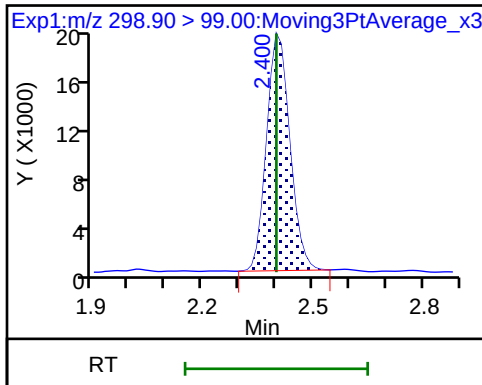
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

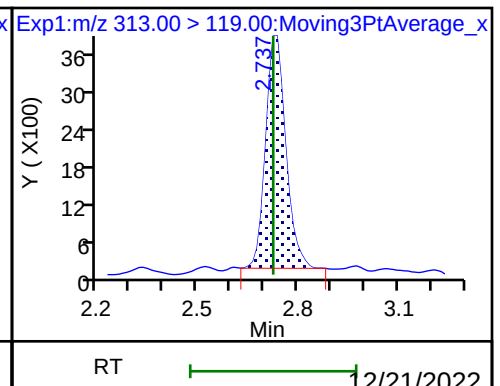
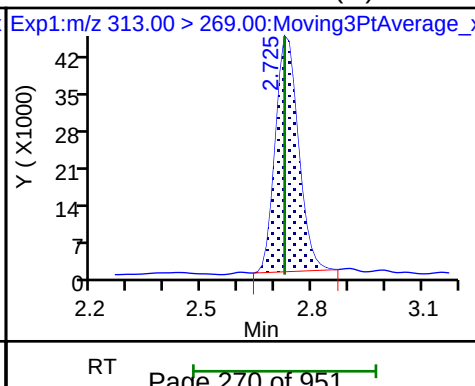
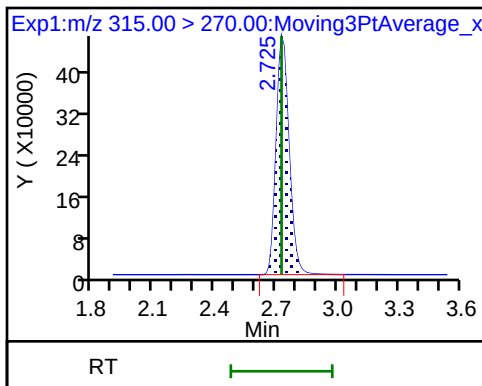
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

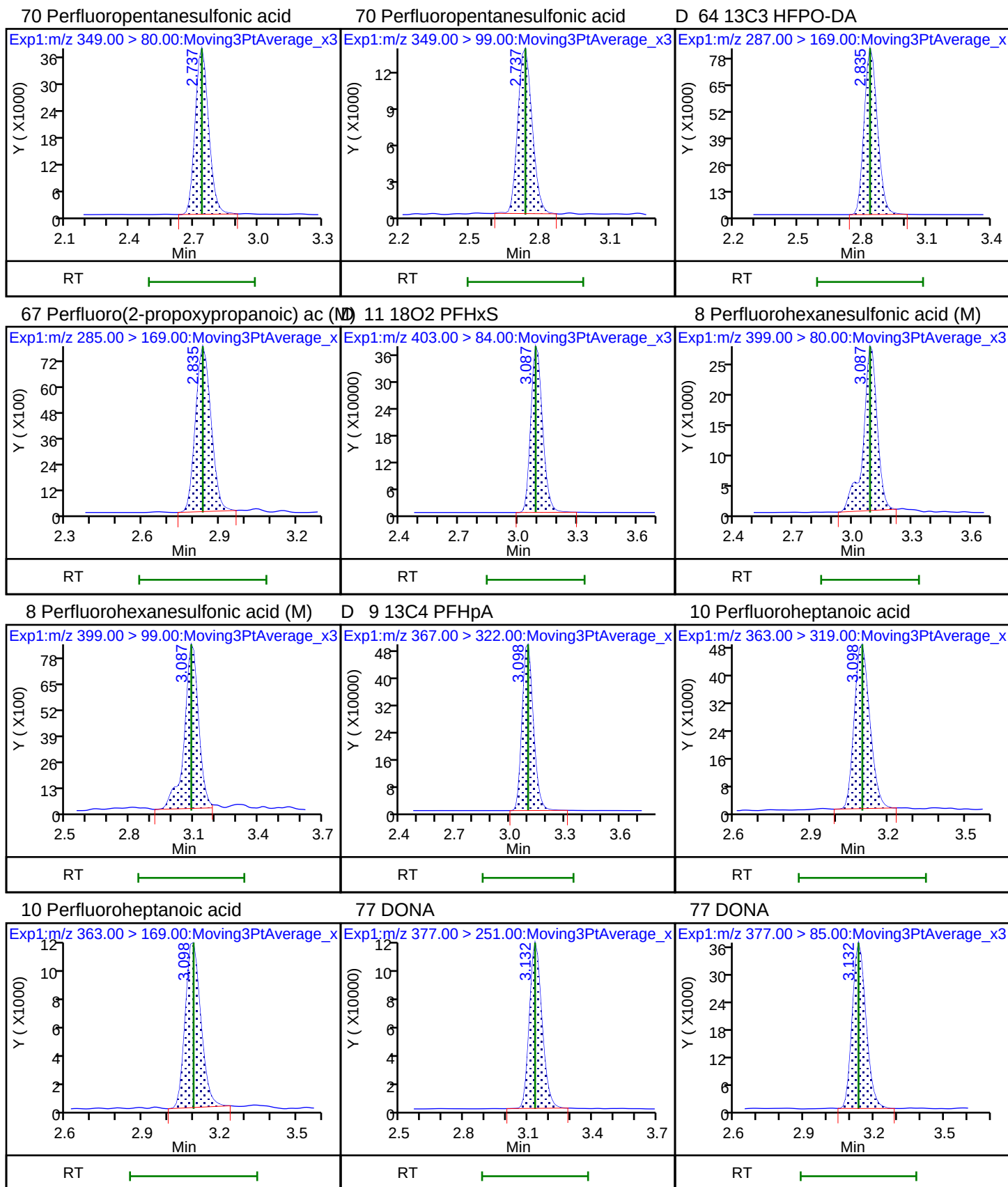


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

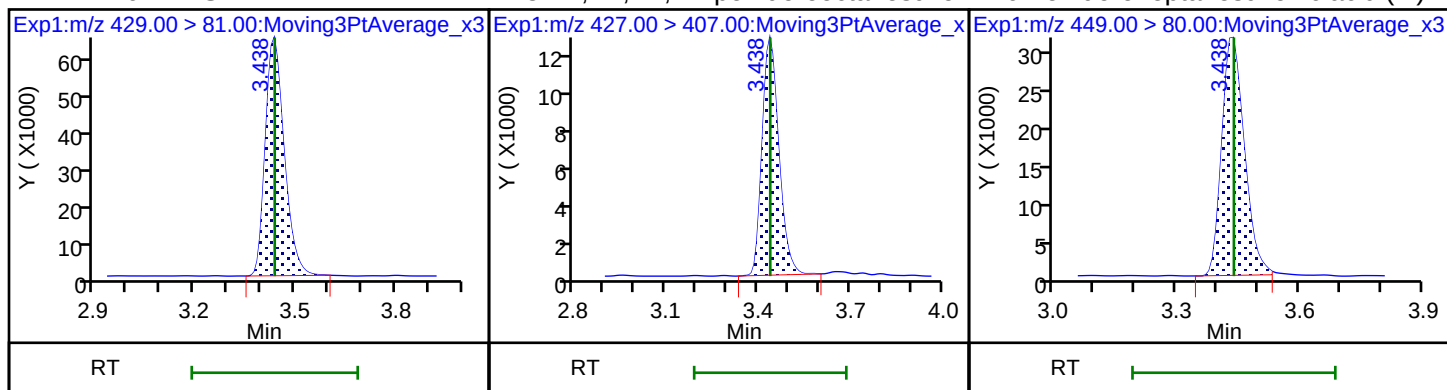




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

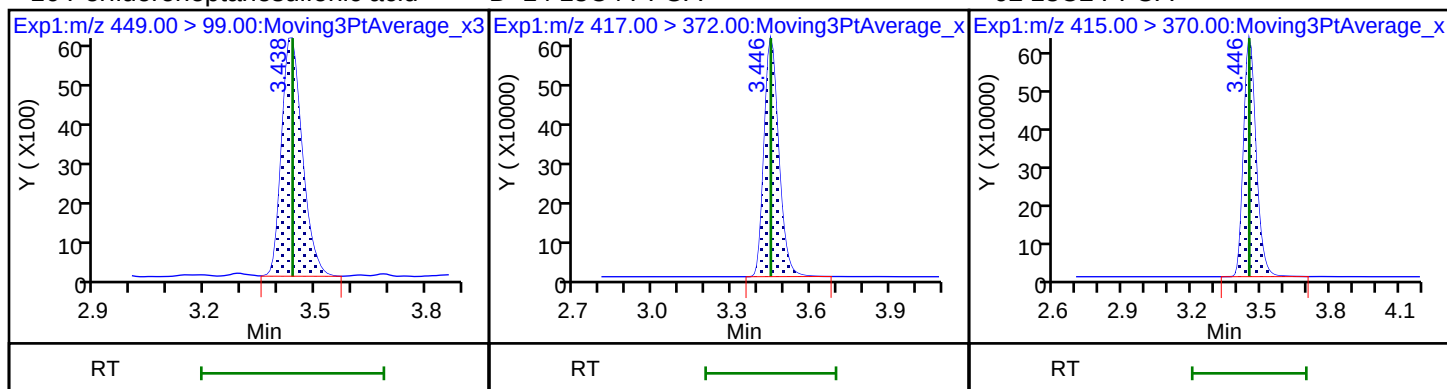
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

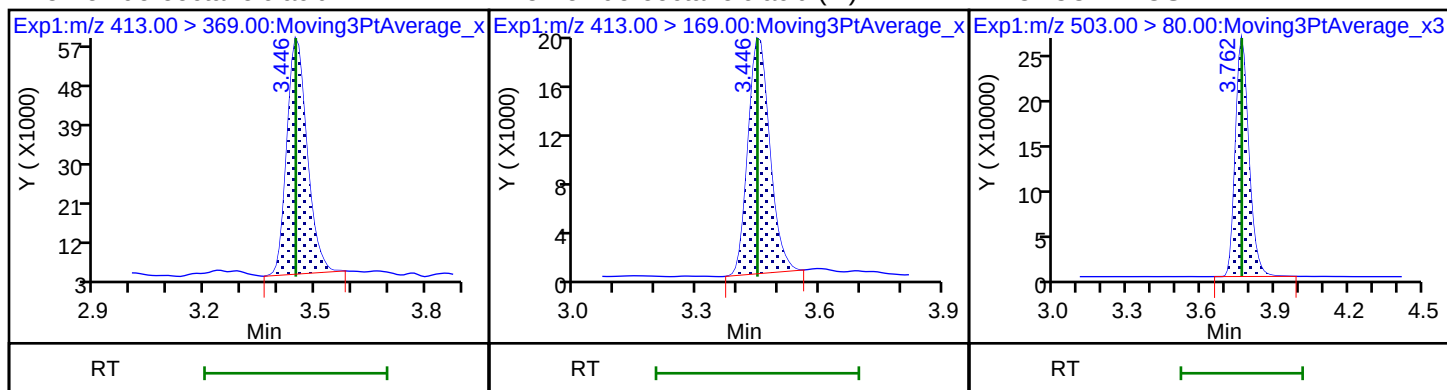
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

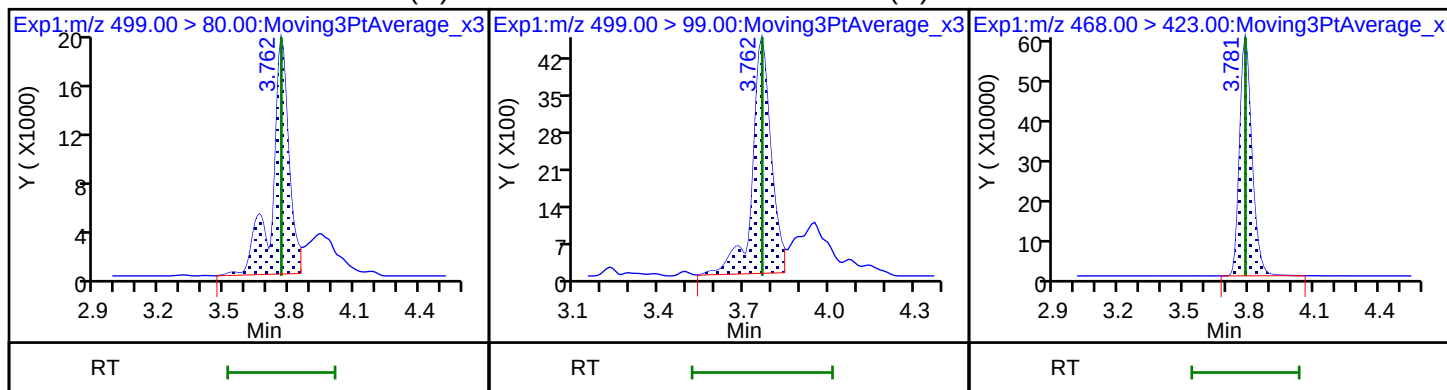
D 18 13C4 PFOS

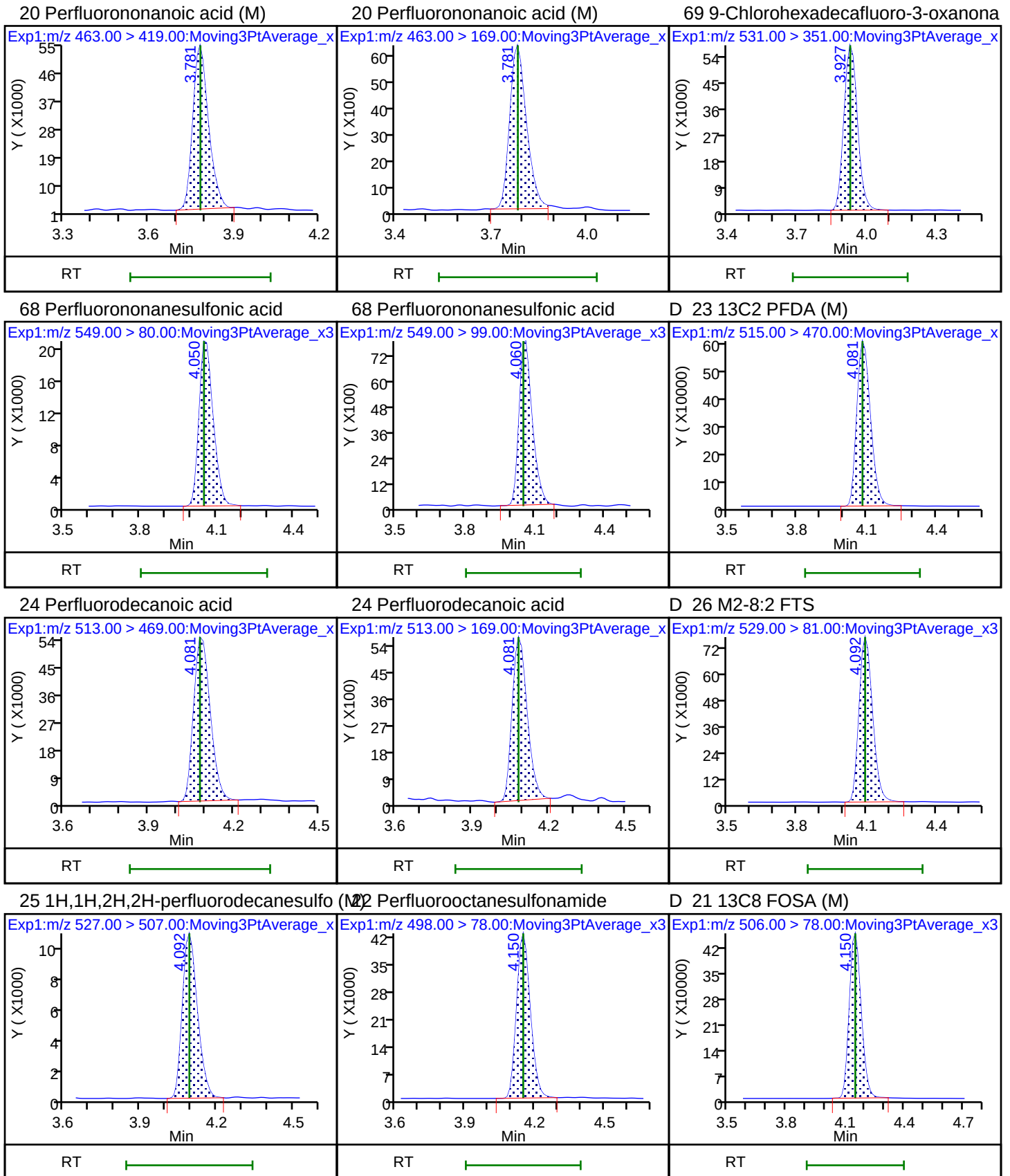


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

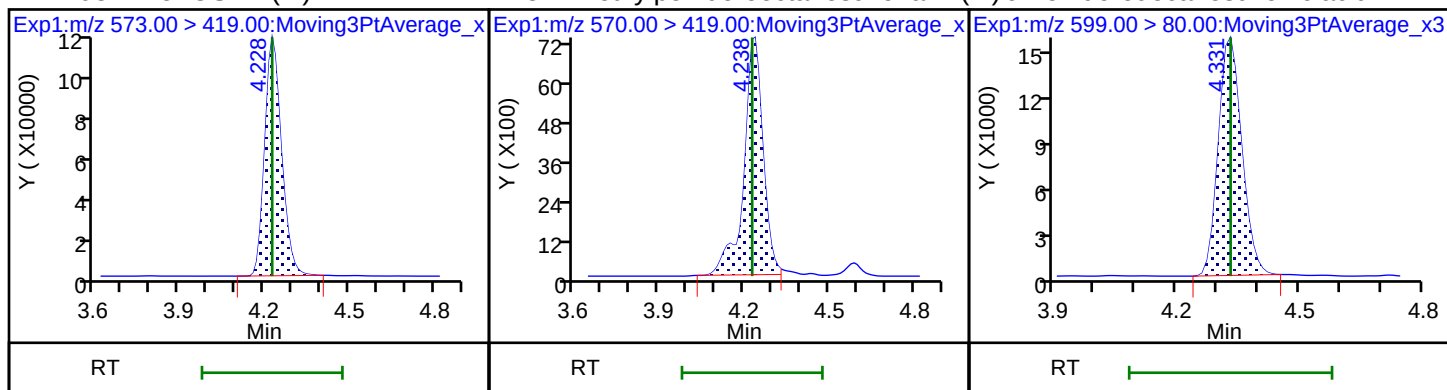




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

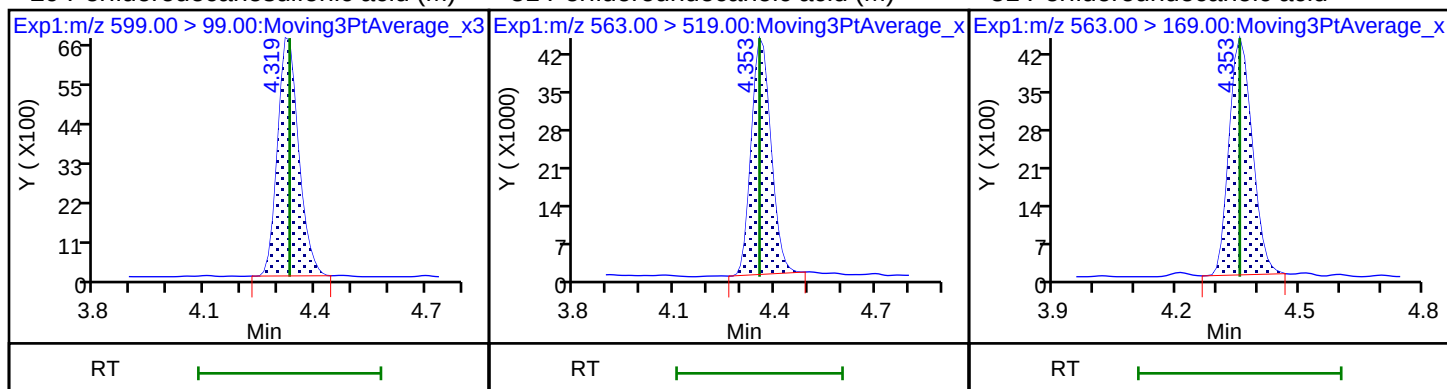
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

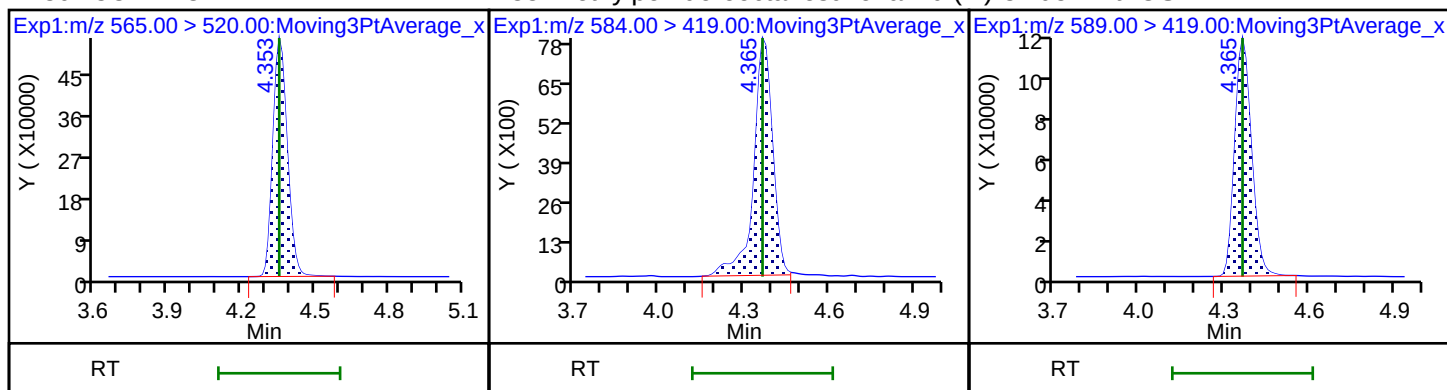
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)

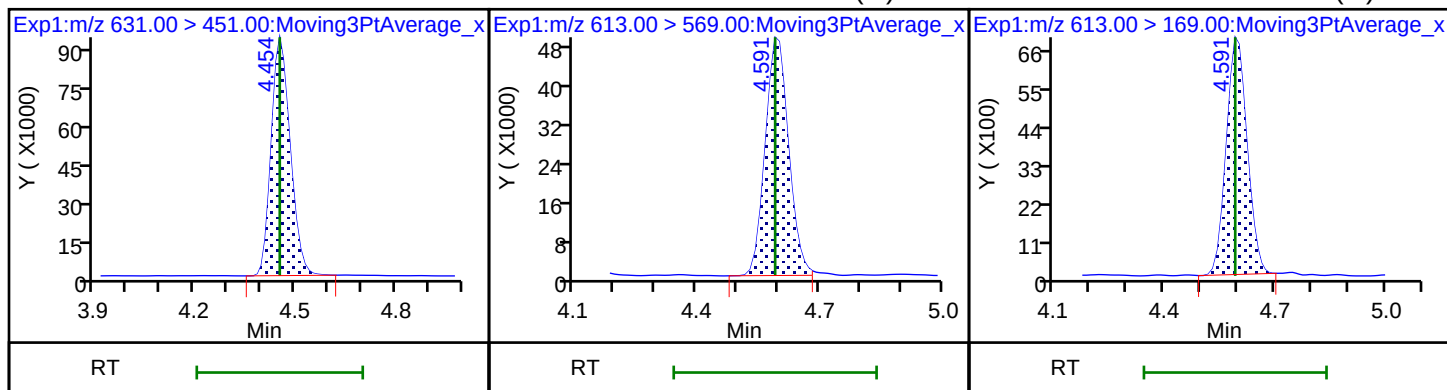
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

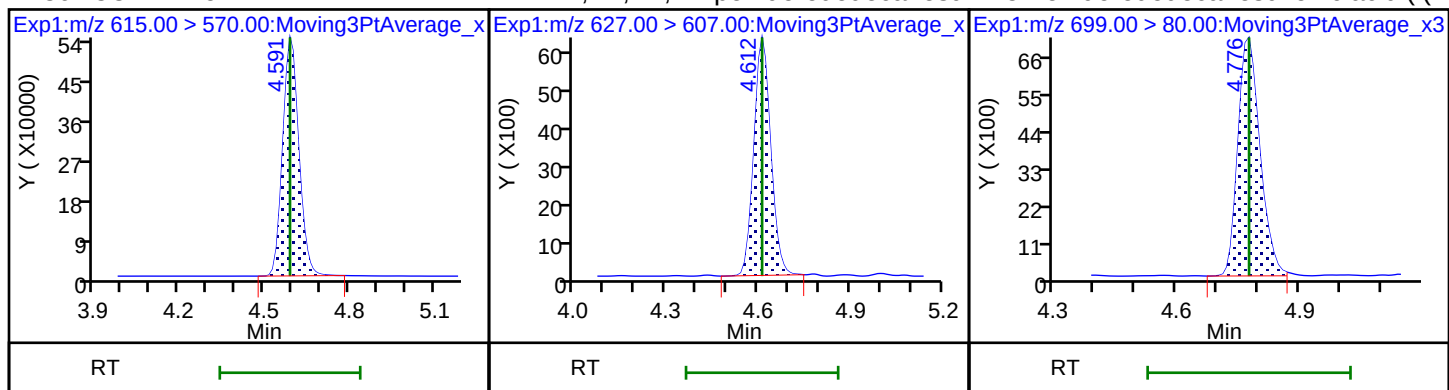
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



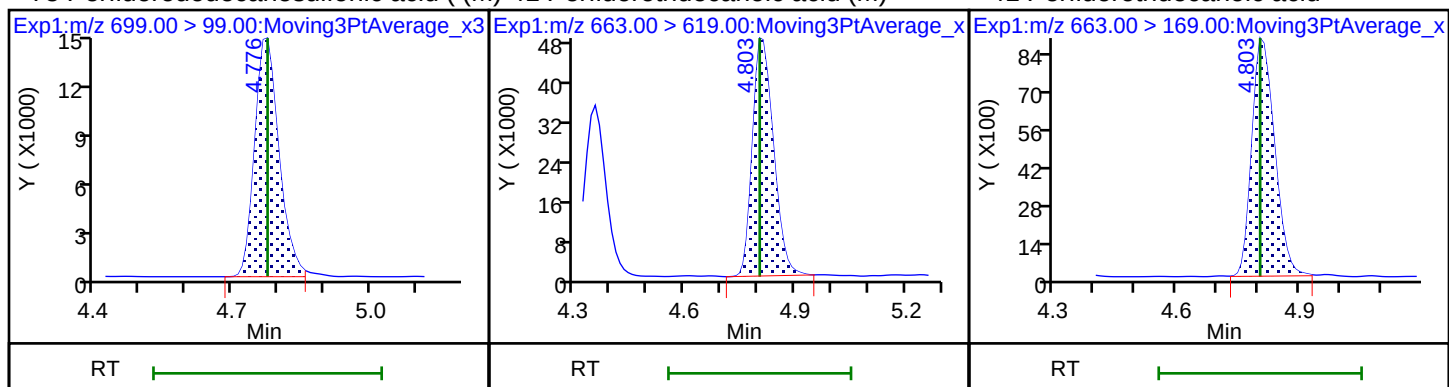
D 36 13C2 PFD0A

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)

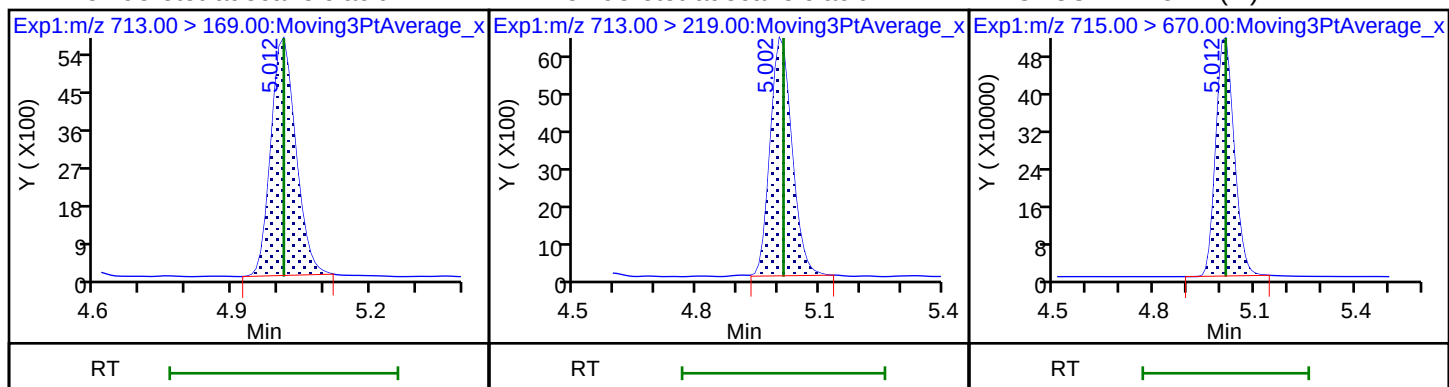
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

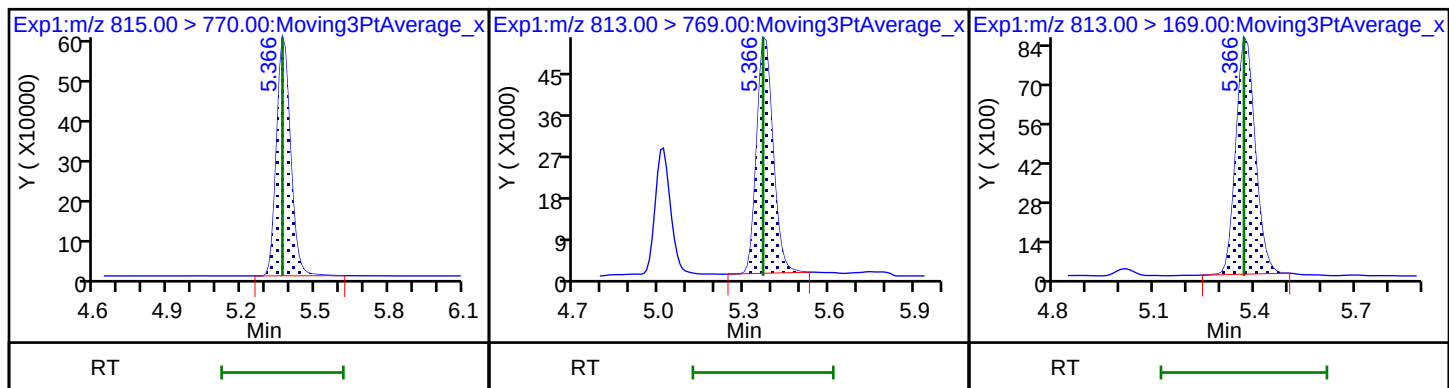
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

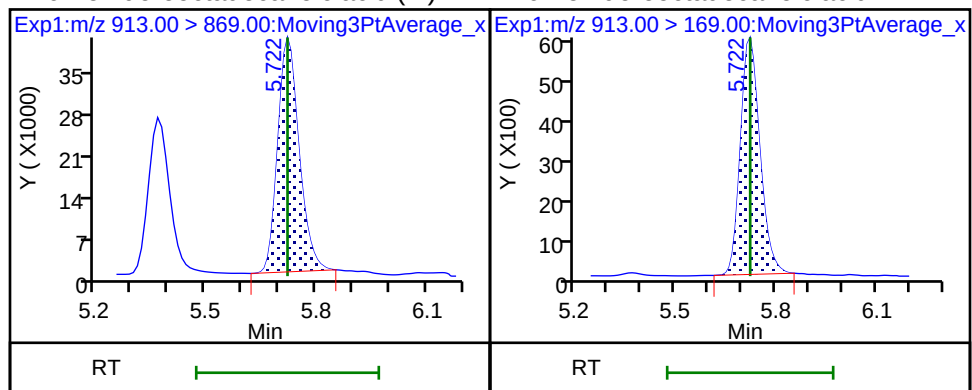
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



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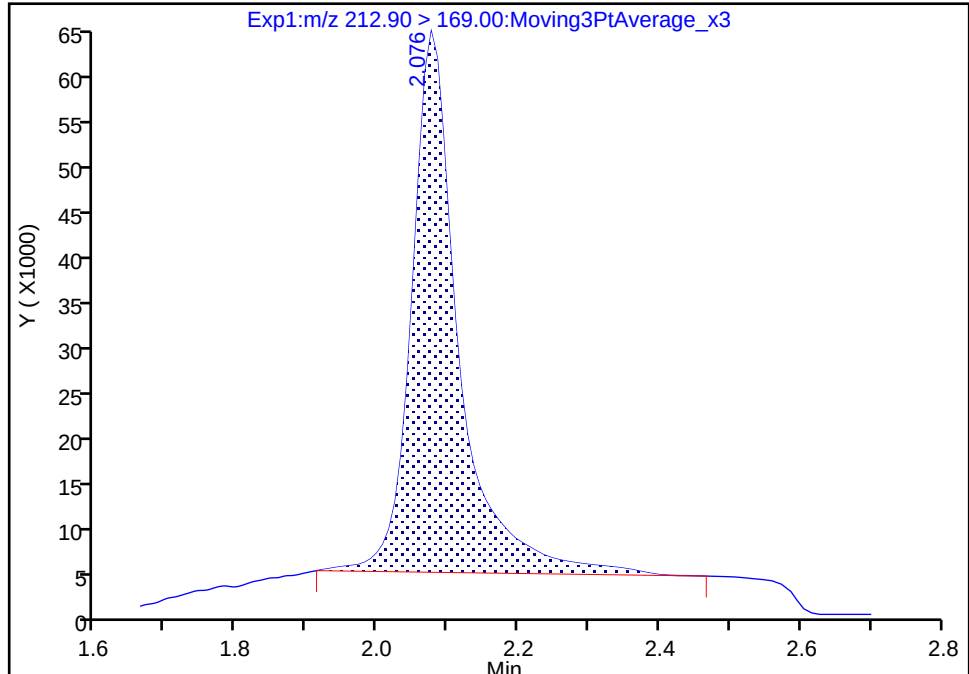
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

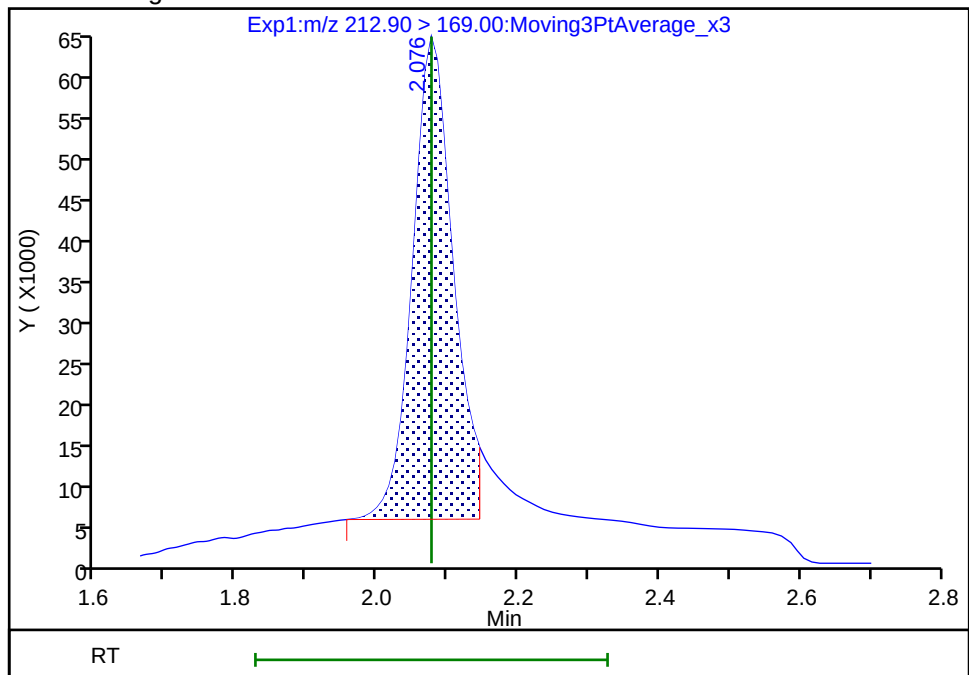
RT: 2.08
Area: 280853
Amount: 0.108572
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 236091
Amount: 0.110792
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

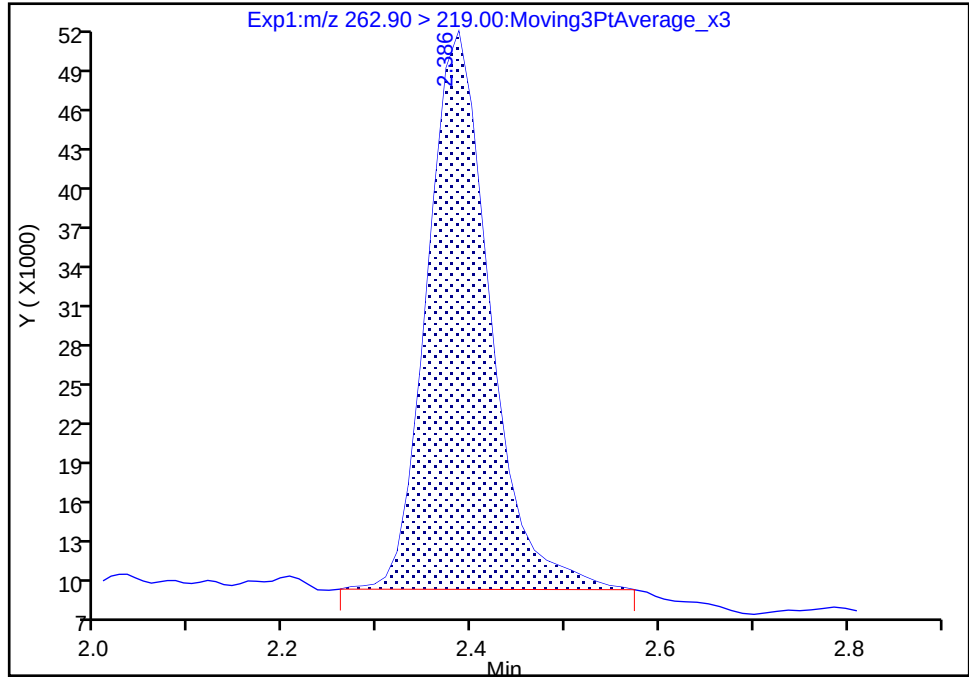
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

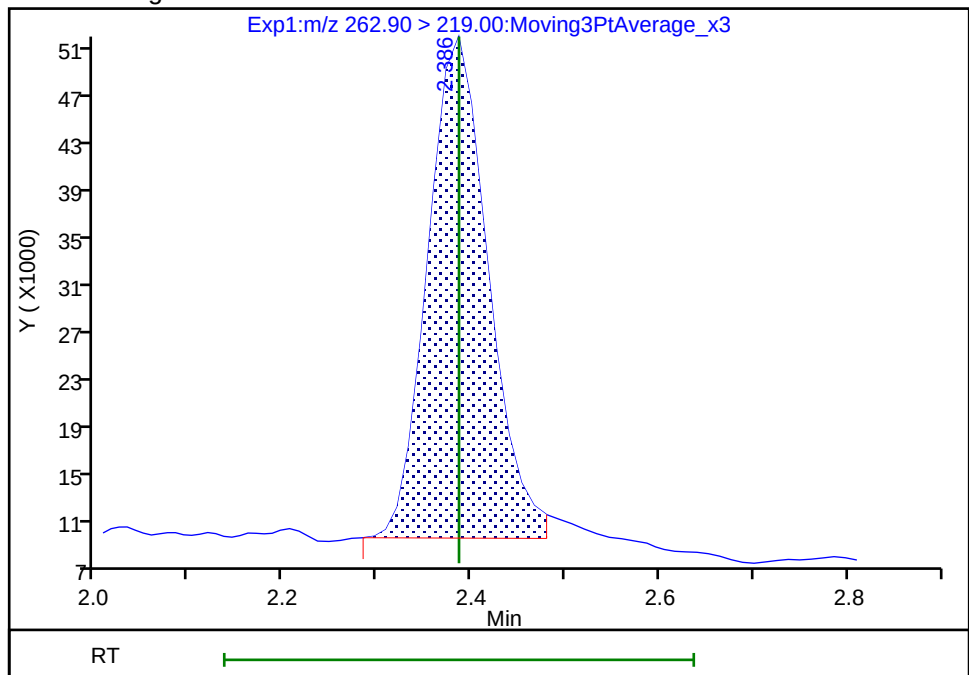
RT: 2.39
Area: 195135
Amount: 0.103655
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 187282
Amount: 0.111484
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

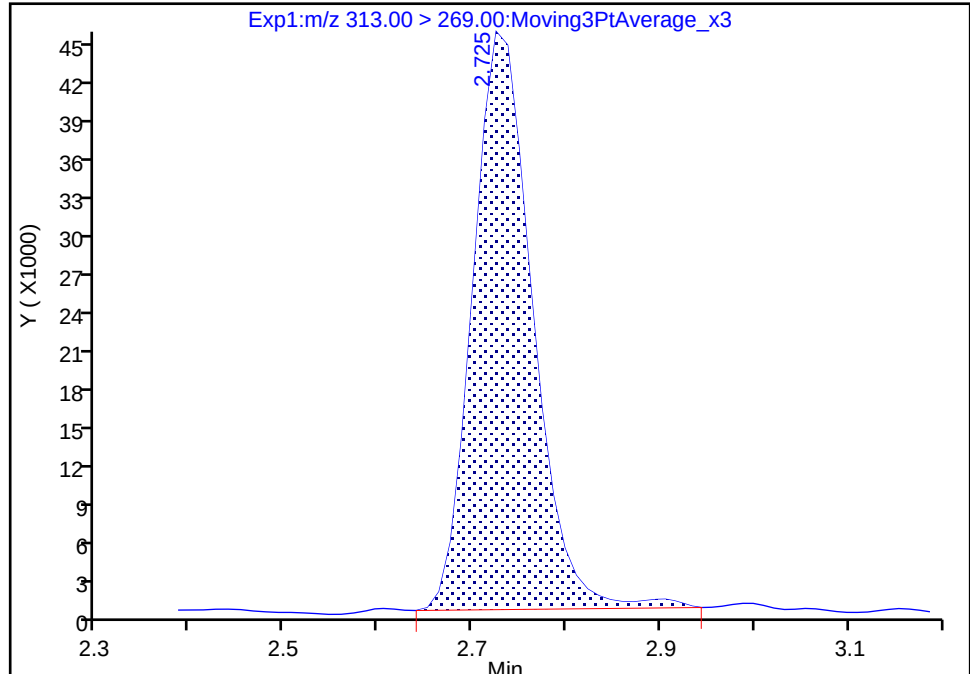
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

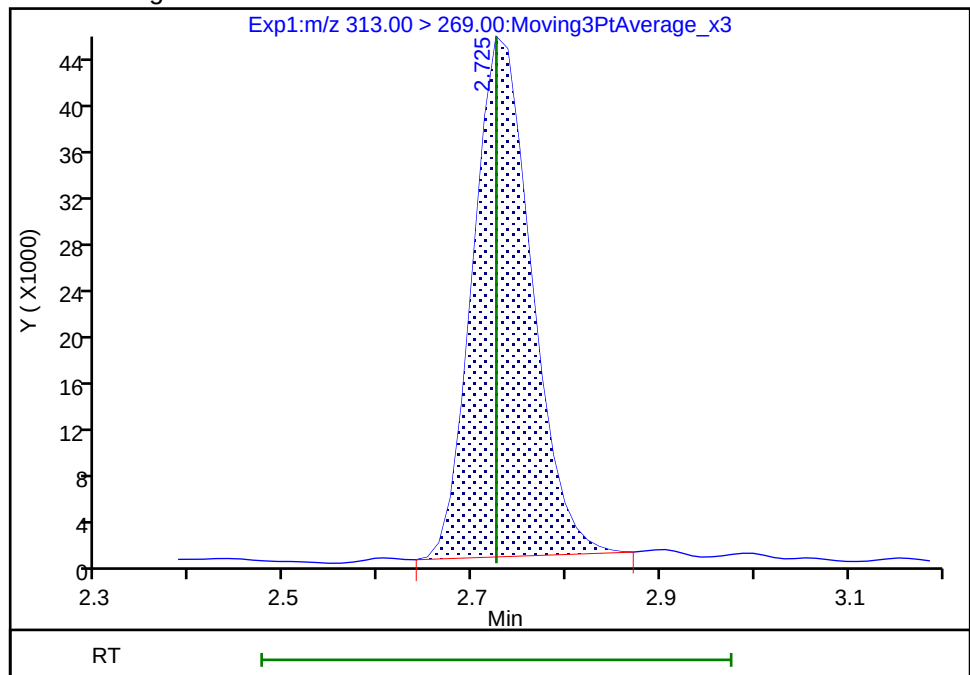
RT: 2.73
Area: 196336
Amount: 0.100921
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 191103
Amount: 0.106564
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

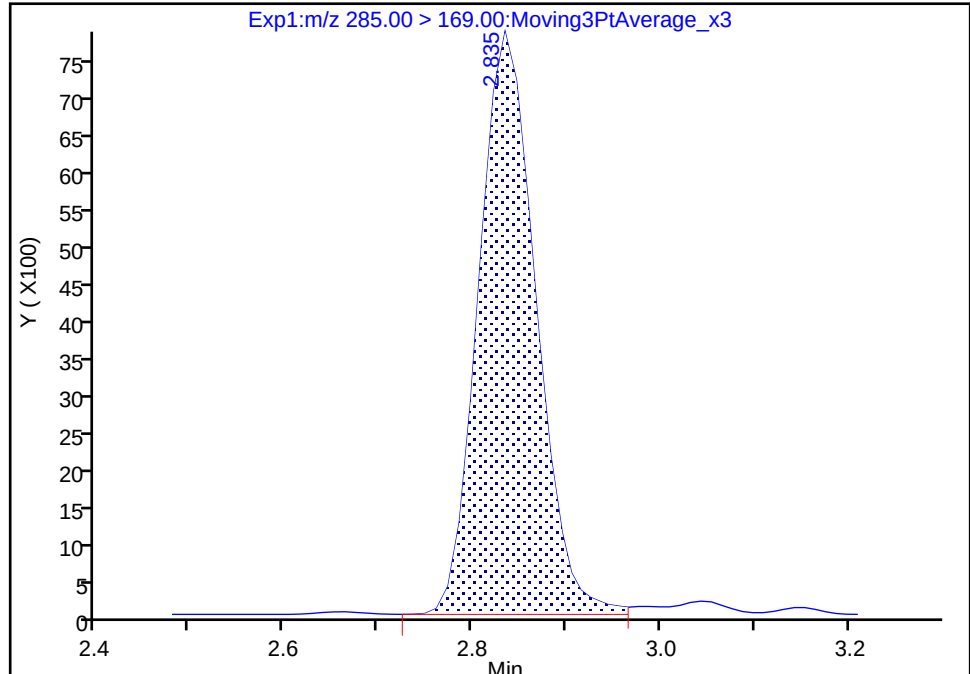
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

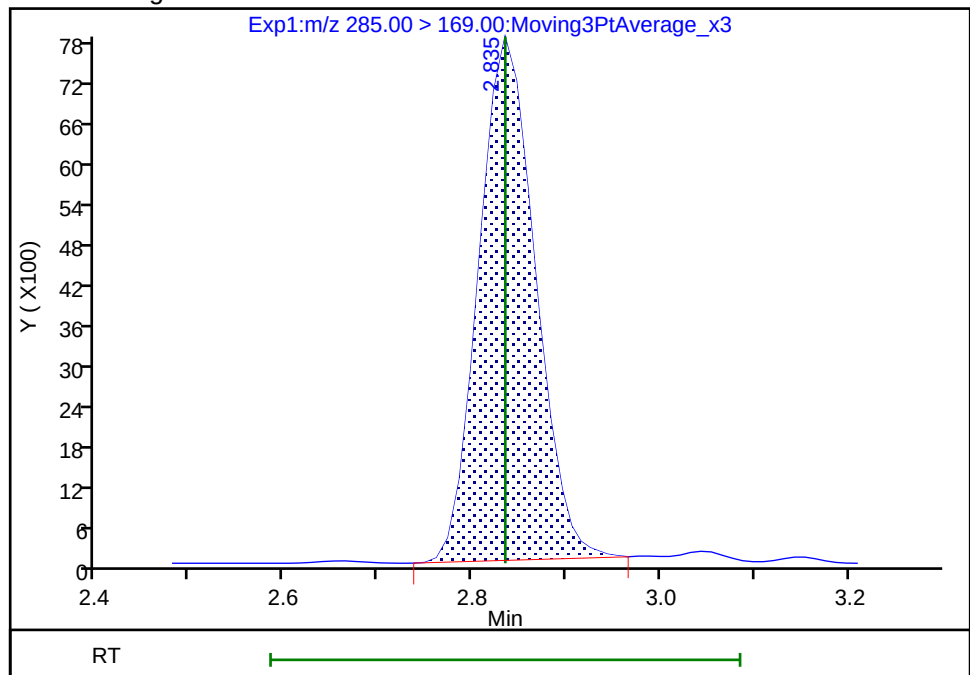
RT: 2.83
Area: 33101
Amount: 0.103414
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 32429
Amount: 0.108840
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

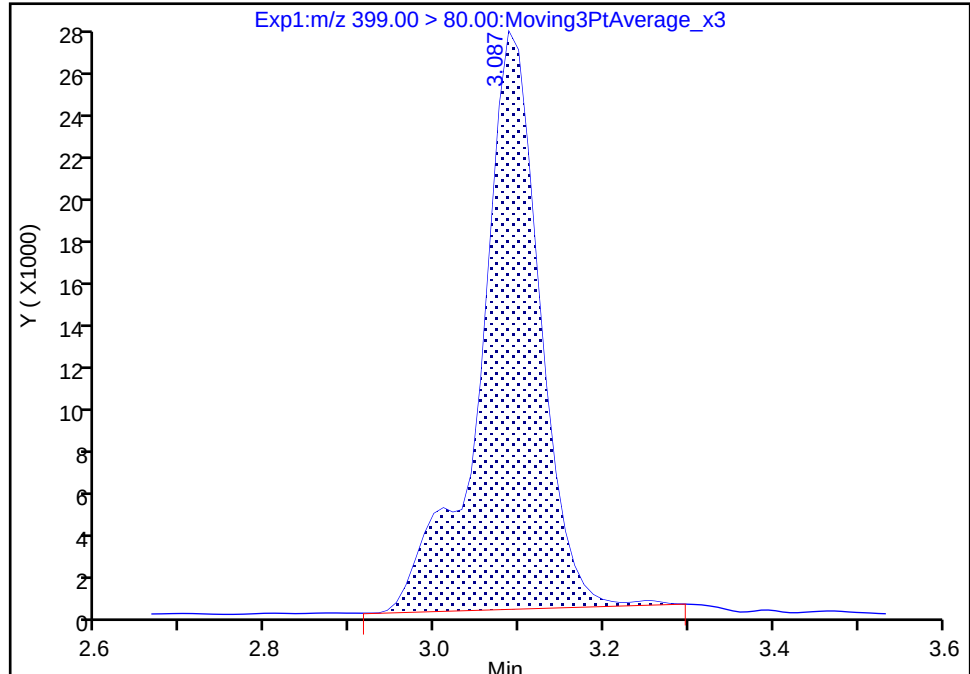
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

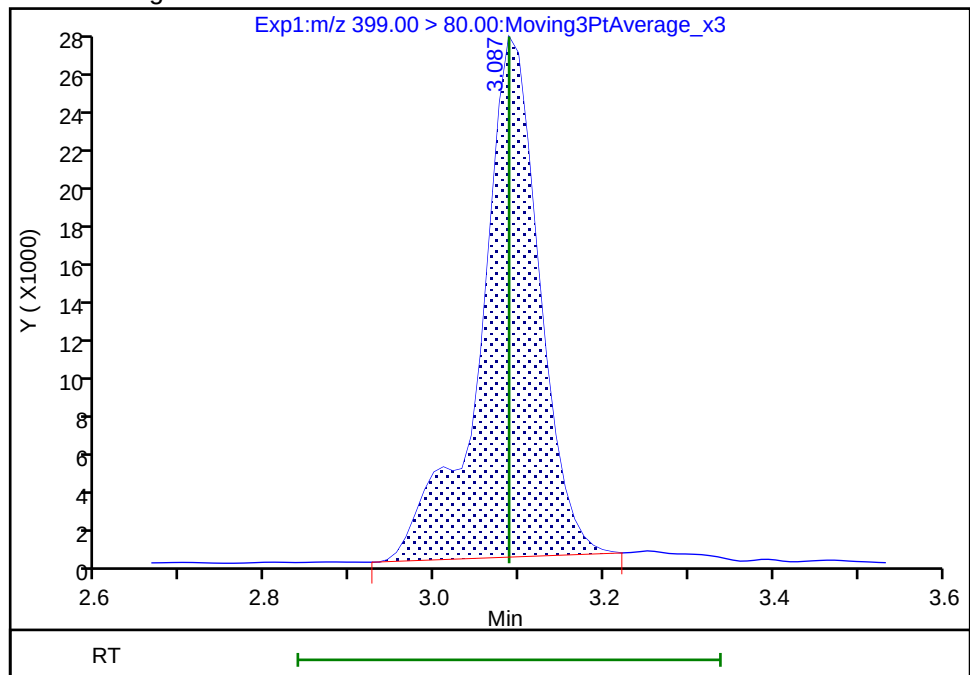
RT: 3.09
Area: 132173
Amount: 0.088001
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 130263
Amount: 0.090506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

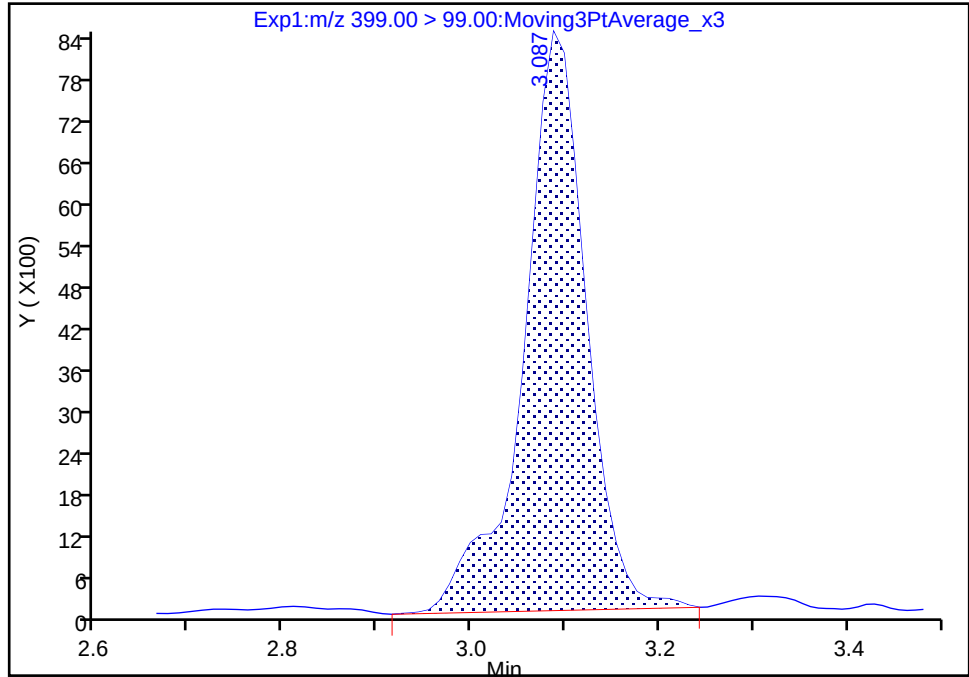
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

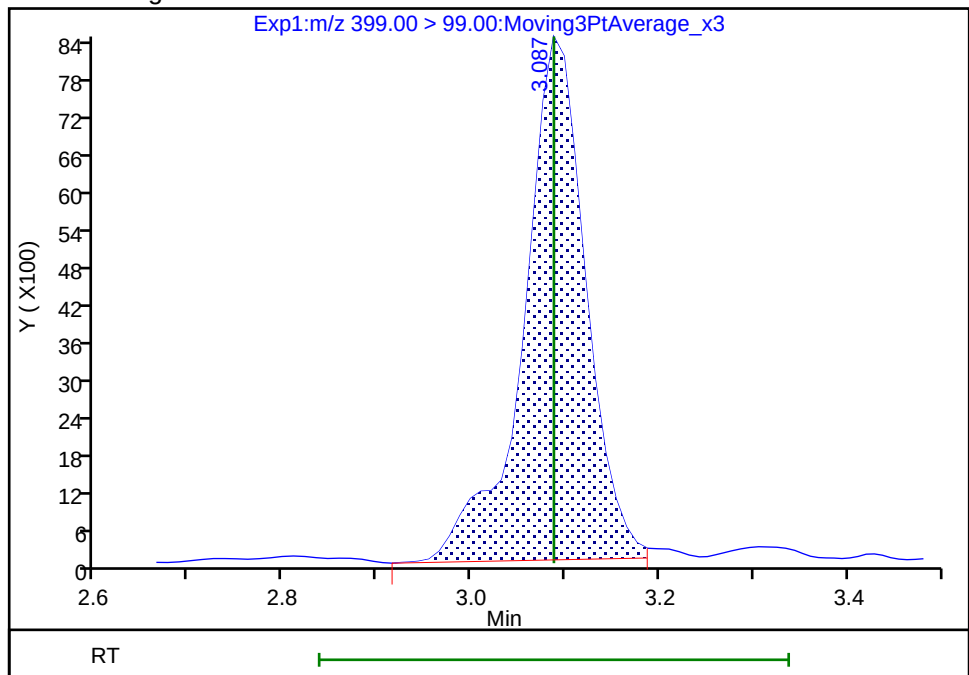
RT: 3.09
Area: 38807
Amount: 0.088001
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 38491
Amount: 0.090506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

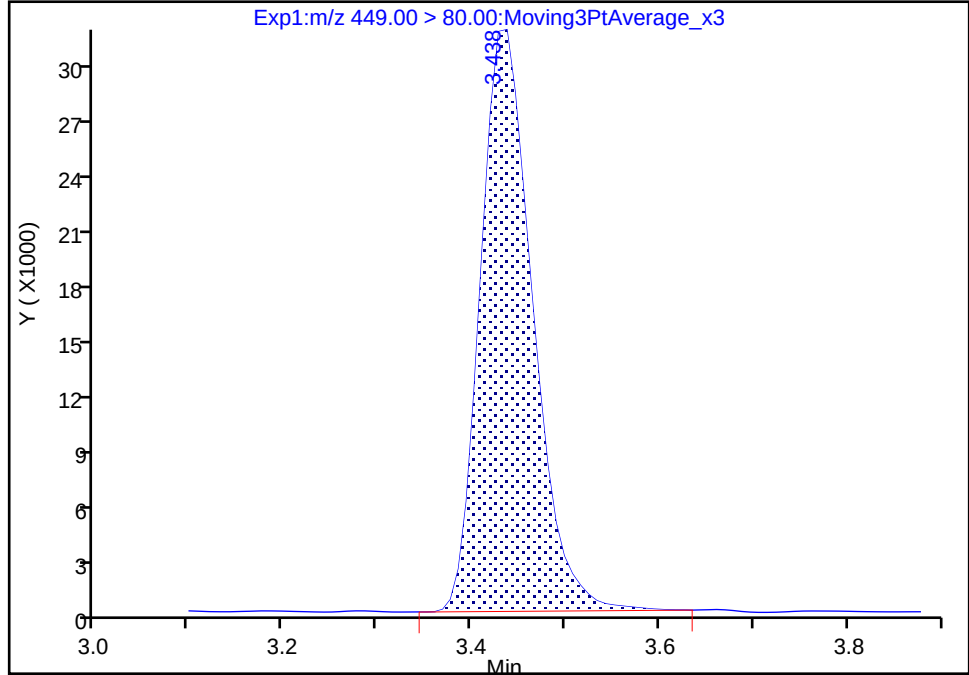
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

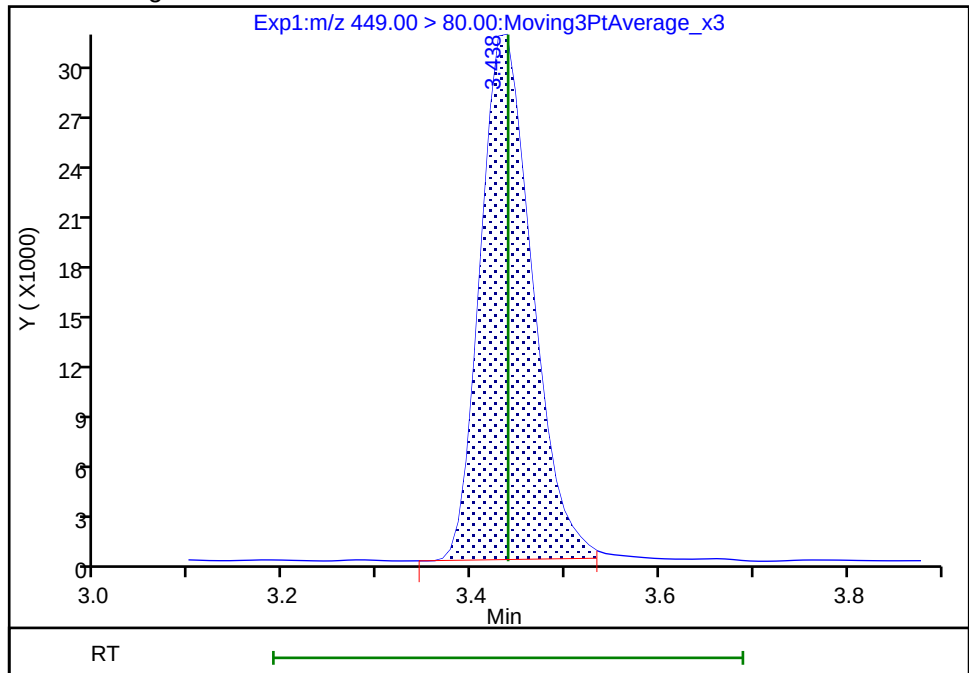
RT: 3.44
Area: 122929
Amount: 0.097560
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 121399
Amount: 0.102806
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

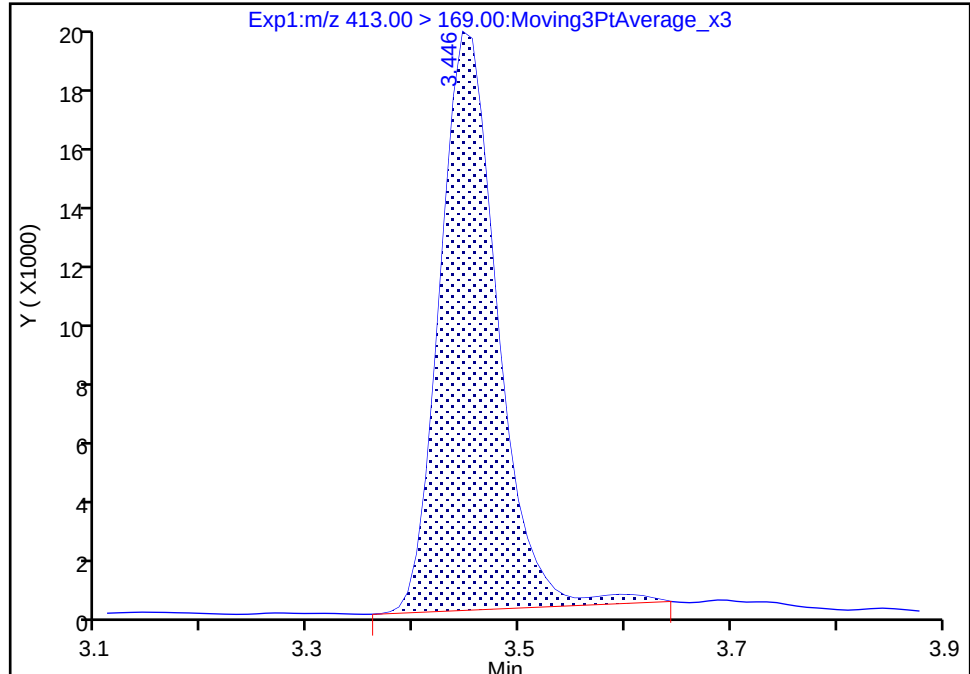
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

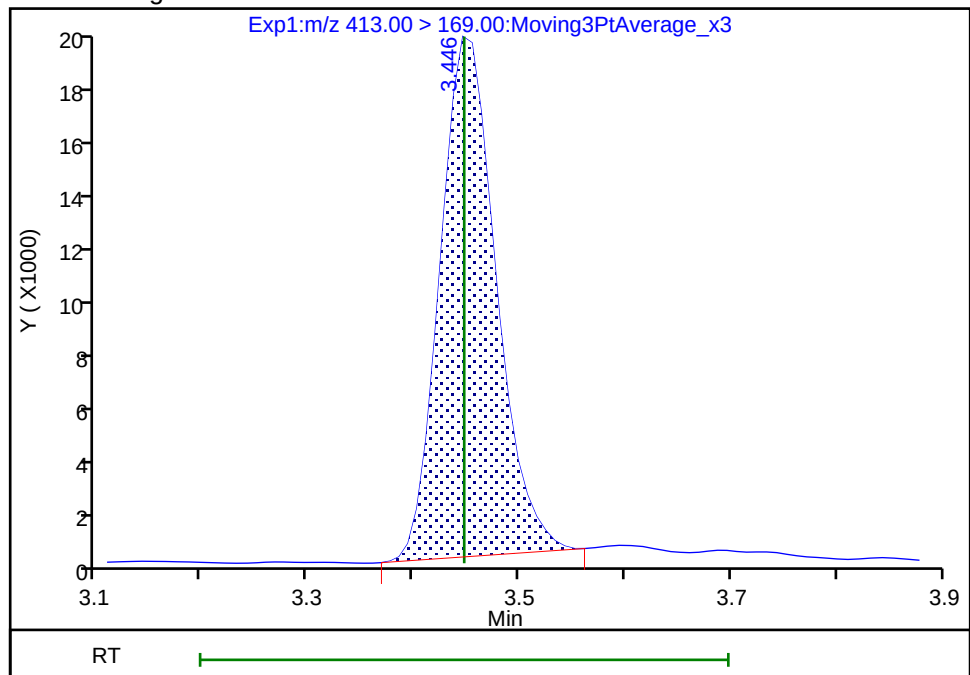
RT: 3.45
Area: 74541
Amount: 0.096919
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 71984
Amount: 0.101896
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

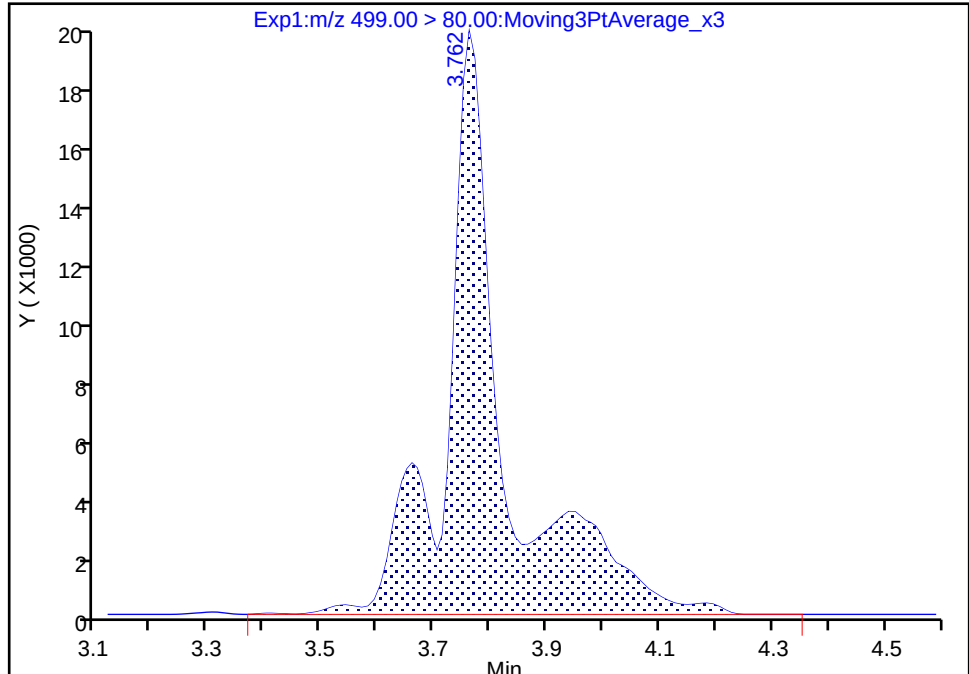
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

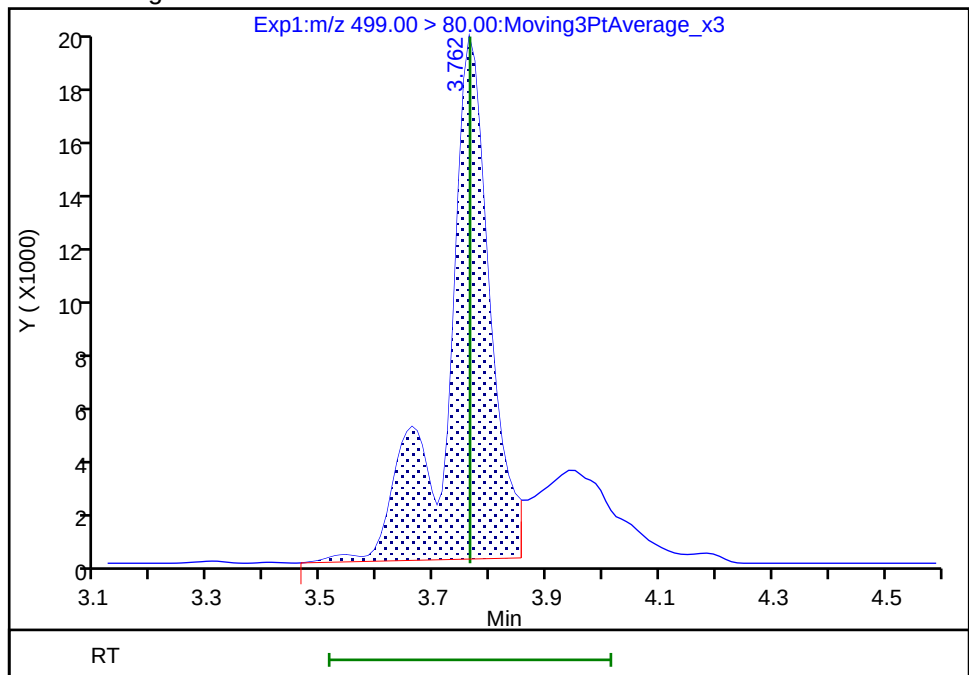
RT: 3.76
Area: 145194
Amount: 0.106140
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 105528
Amount: 0.102635
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

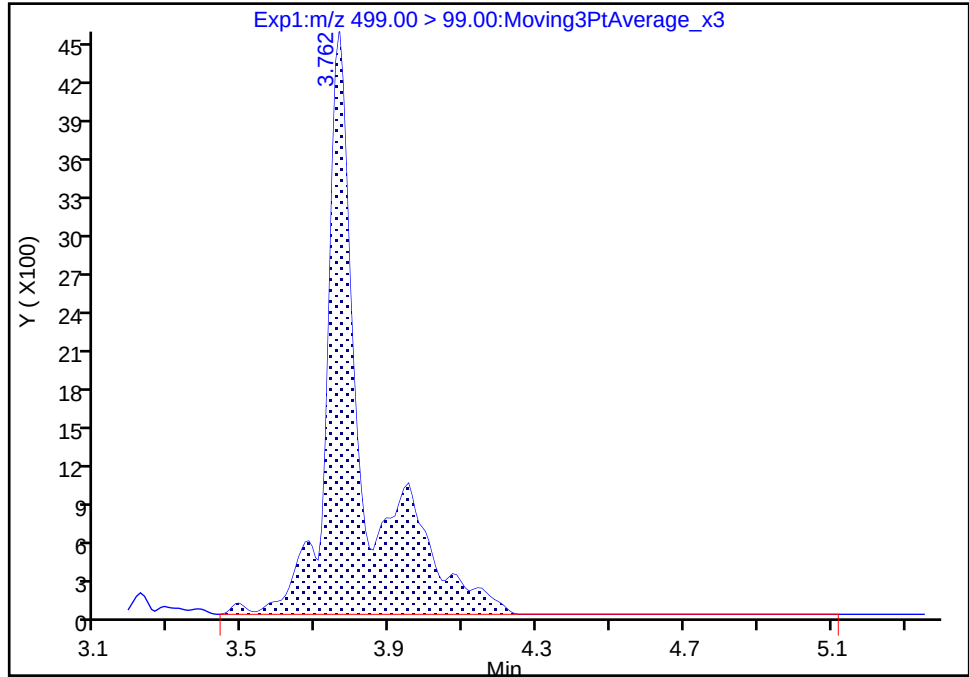
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

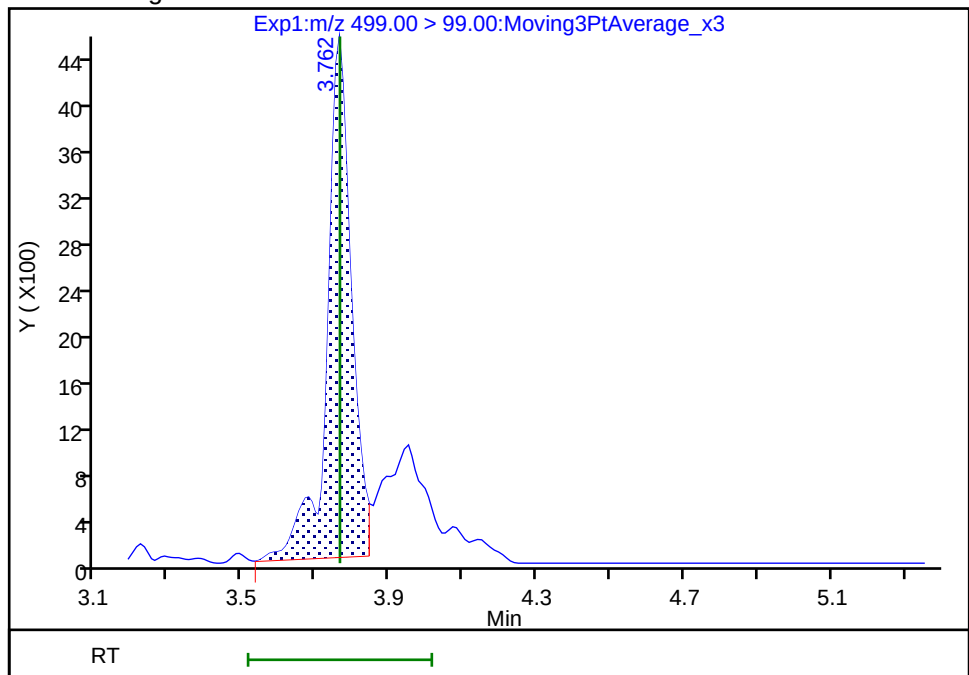
RT: 3.76
Area: 31586
Amount: 0.106140
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 20524
Amount: 0.102635
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

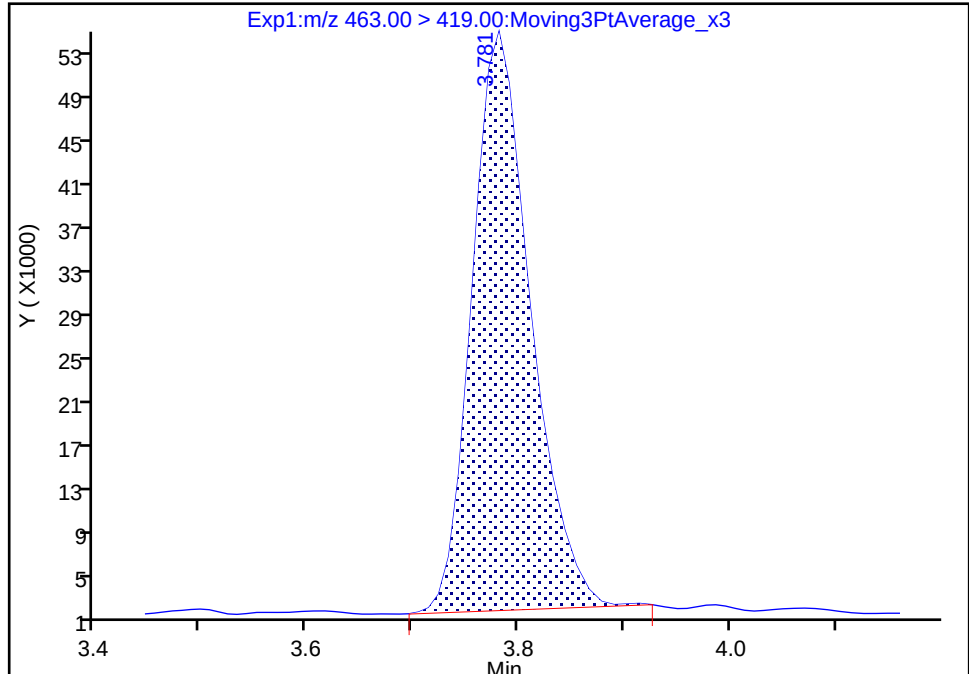
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

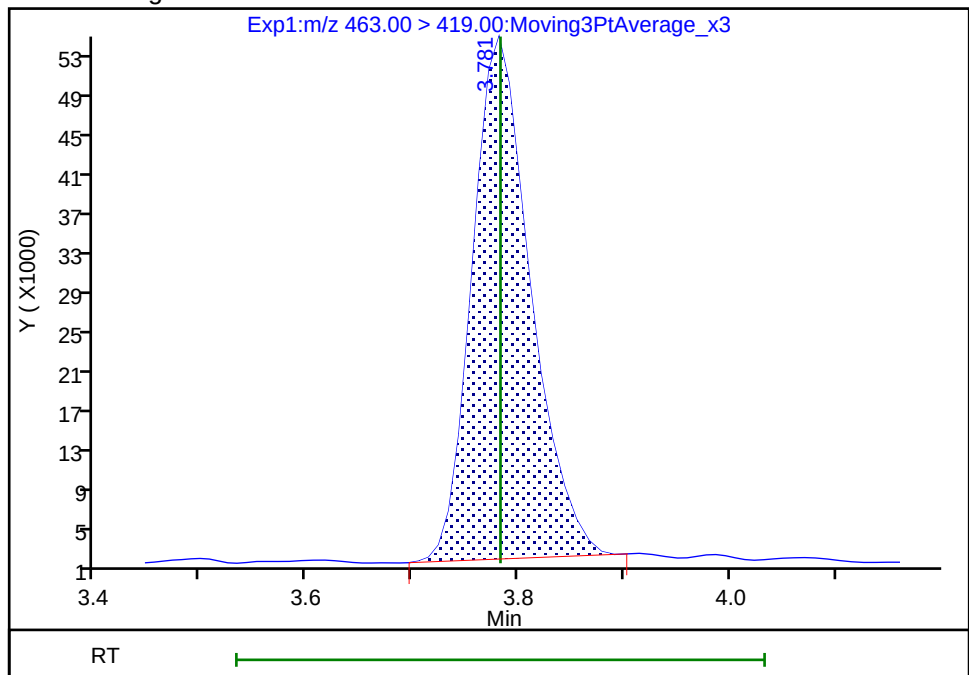
RT: 3.78
Area: 202724
Amount: 0.099917
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 201460
Amount: 0.102775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

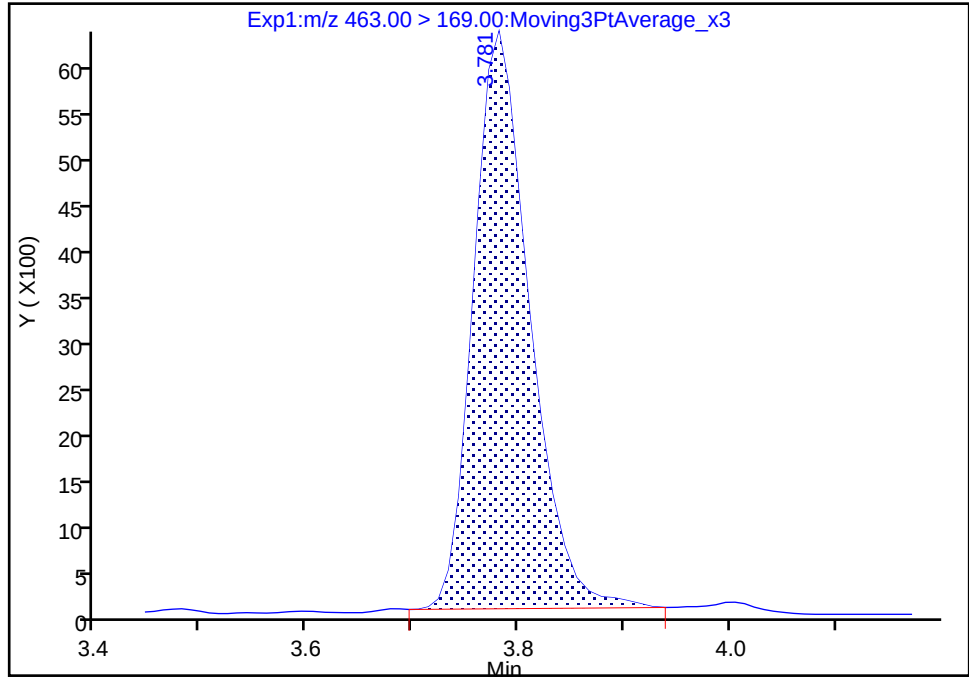
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

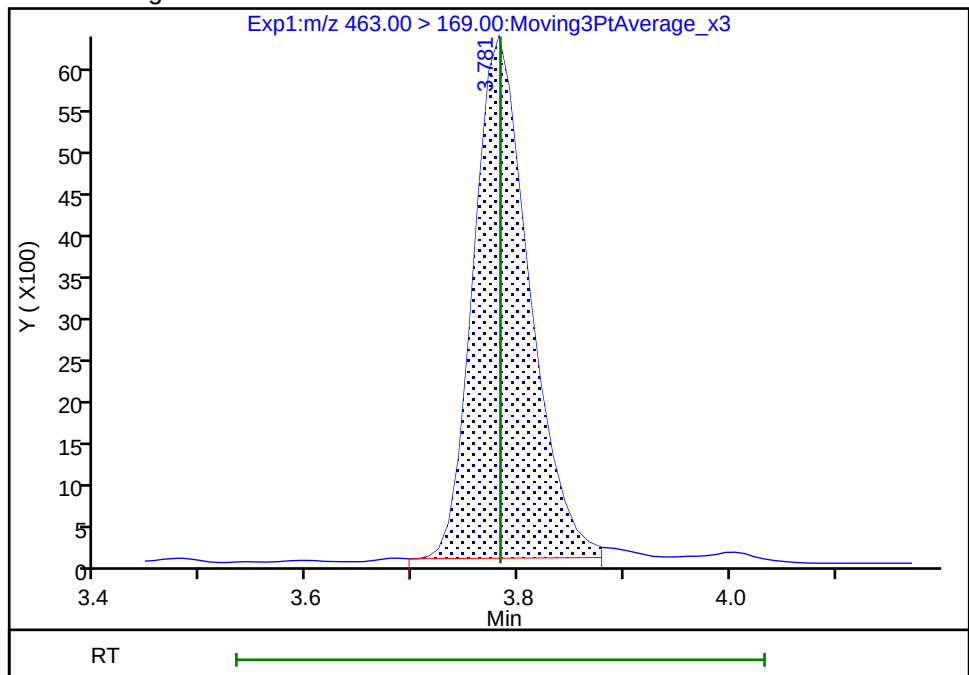
RT: 3.78
Area: 23367
Amount: 0.099917
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 23149
Amount: 0.102775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

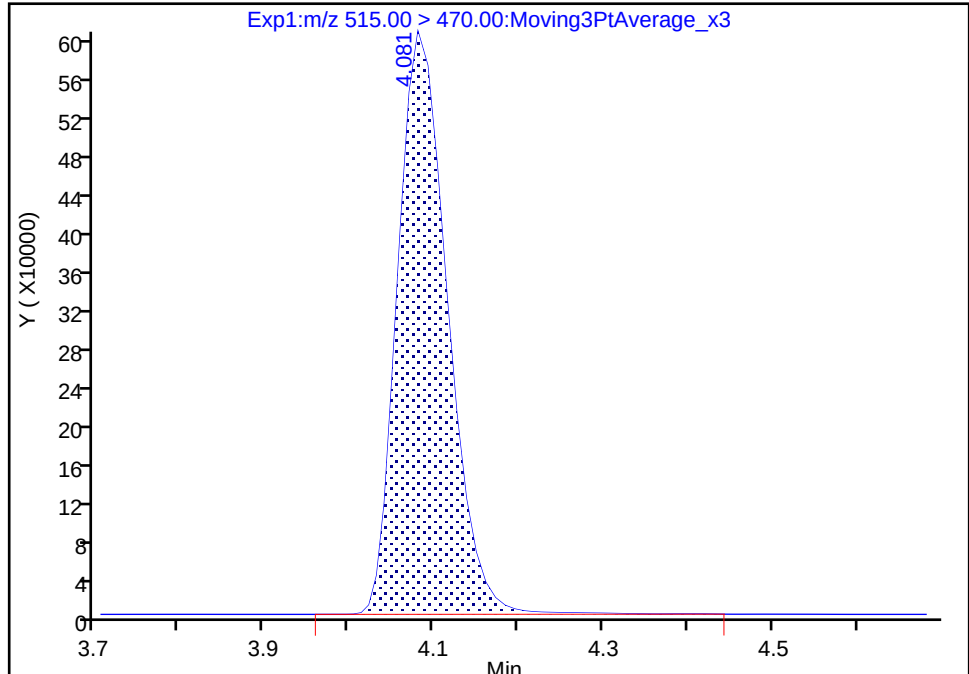
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d		
Injection Date:	18-Nov-2022 14:38:04	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	3 Worklist Smp#: 6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

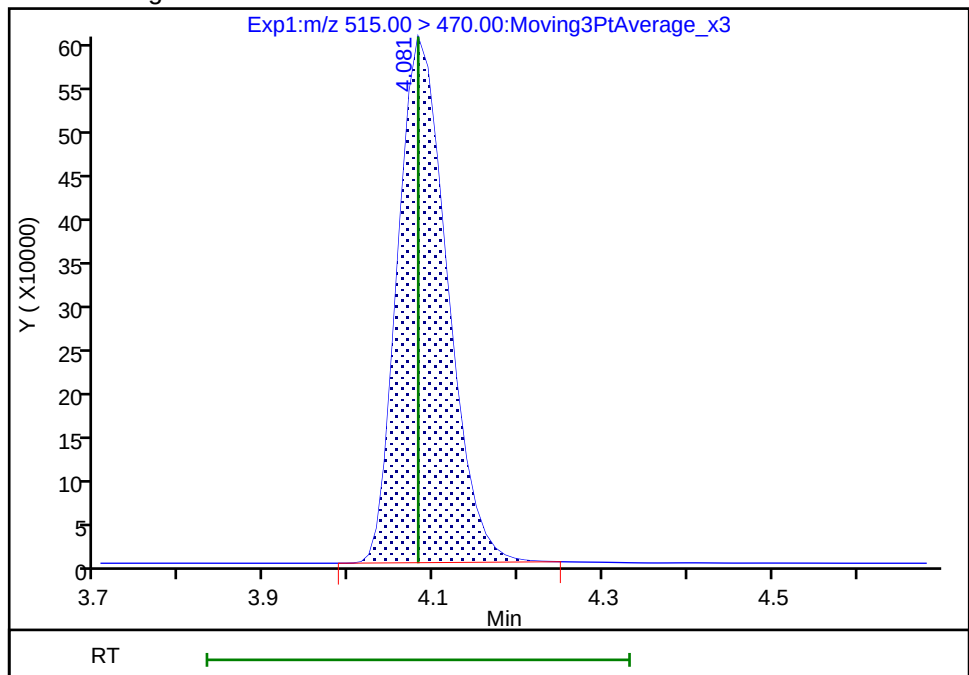
RT: 4.08
Area: 2458427
Amount: 1.268074
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2439344
Amount: 1.251415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

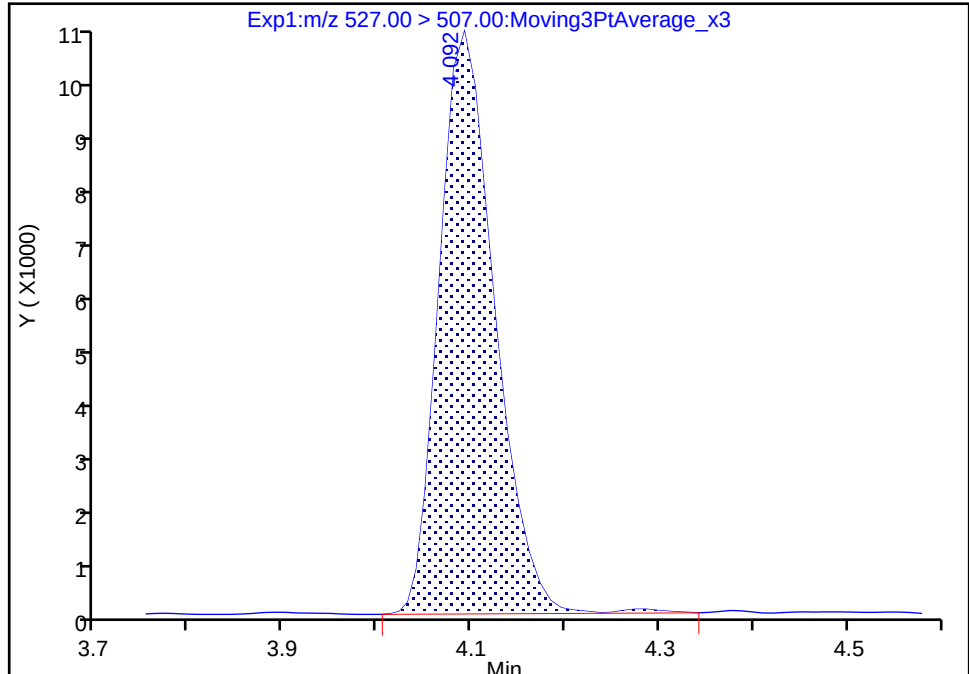
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

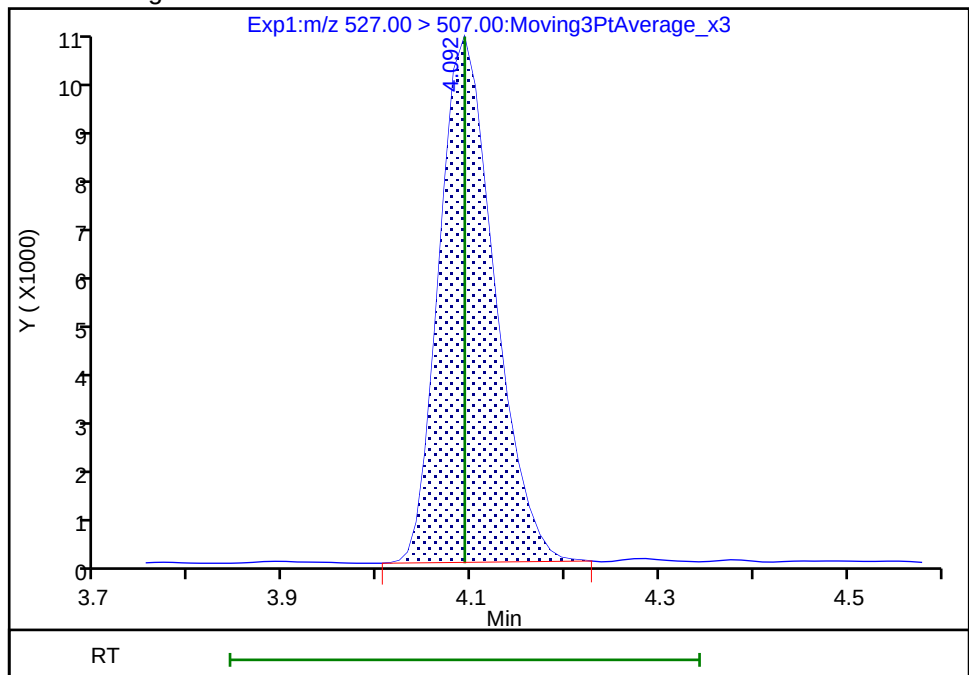
RT: 4.09
Area: 41439
Amount: 0.097438
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 41049
Amount: 0.098942
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

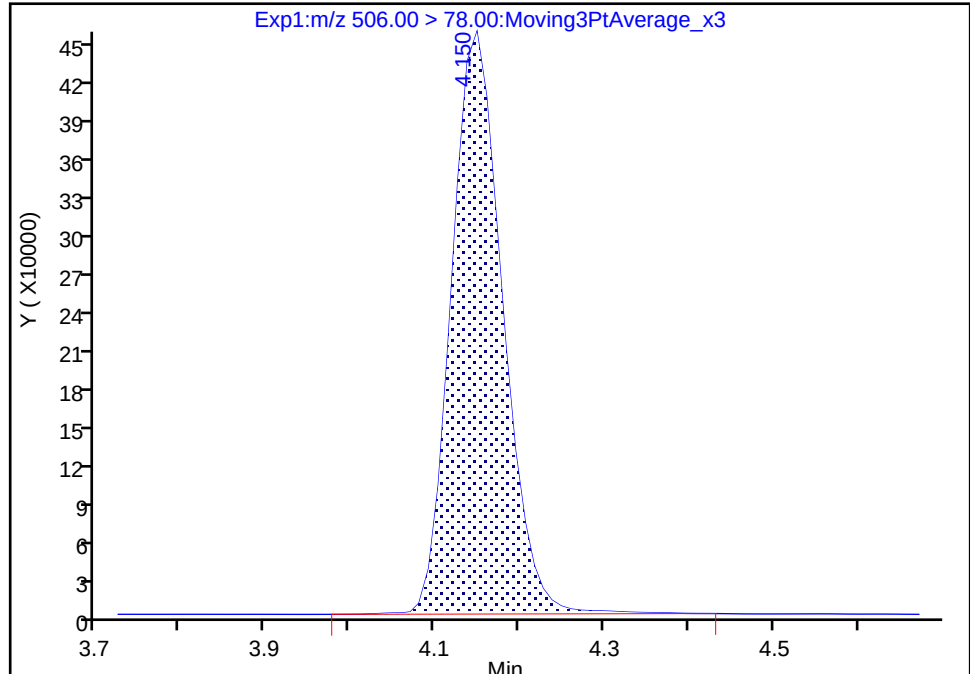
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

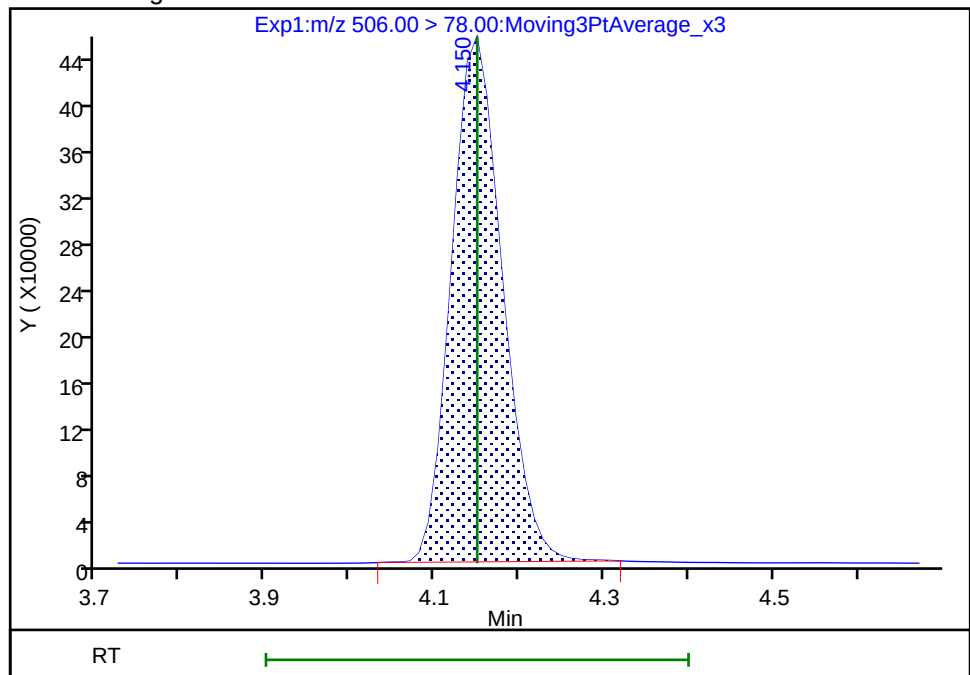
RT: 4.15
Area: 1921287
Amount: 1.214680
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1899612
Amount: 1.188681
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

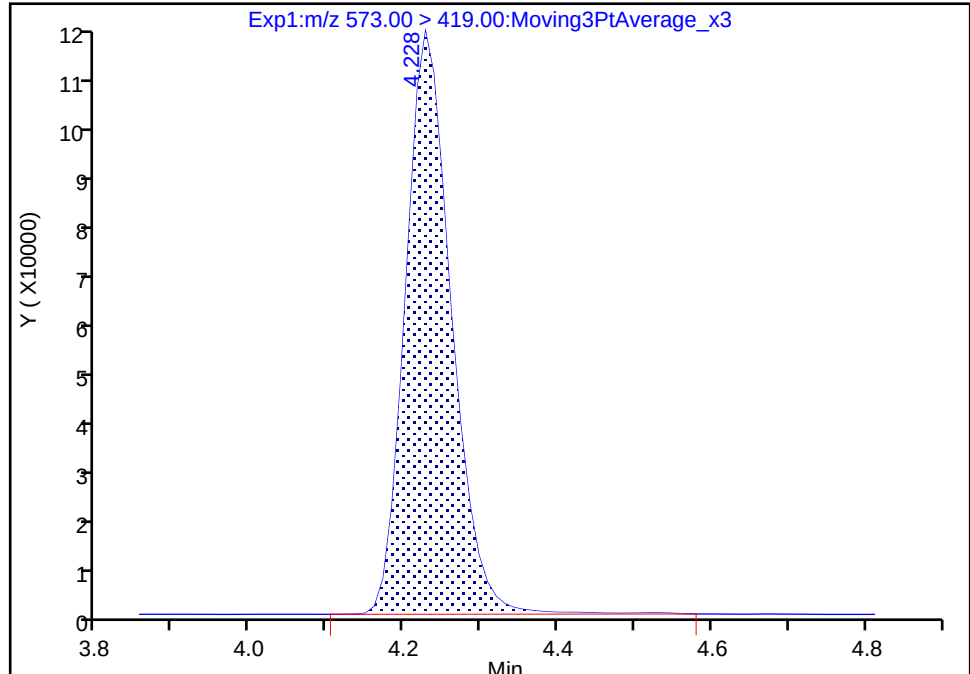
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

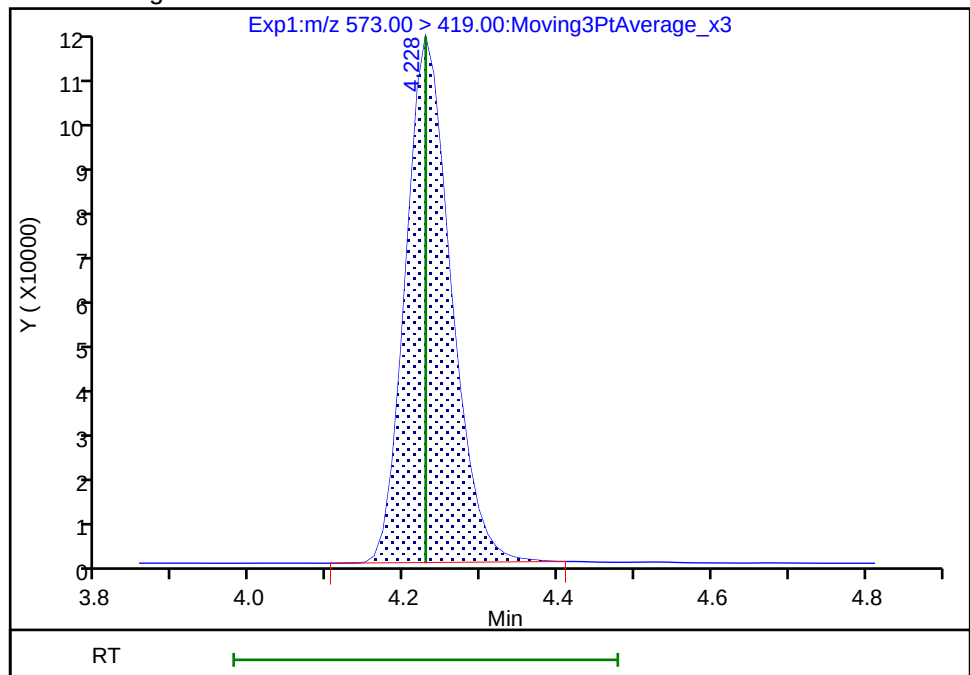
RT: 4.23
Area: 483256
Amount: 1.235603
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 478399
Amount: 1.205370
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

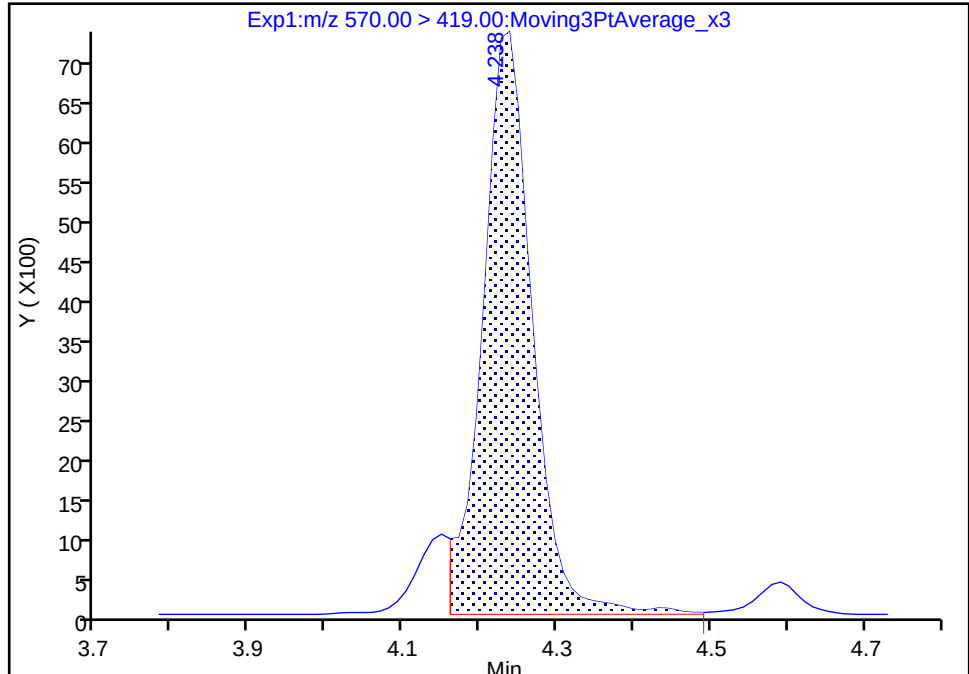
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

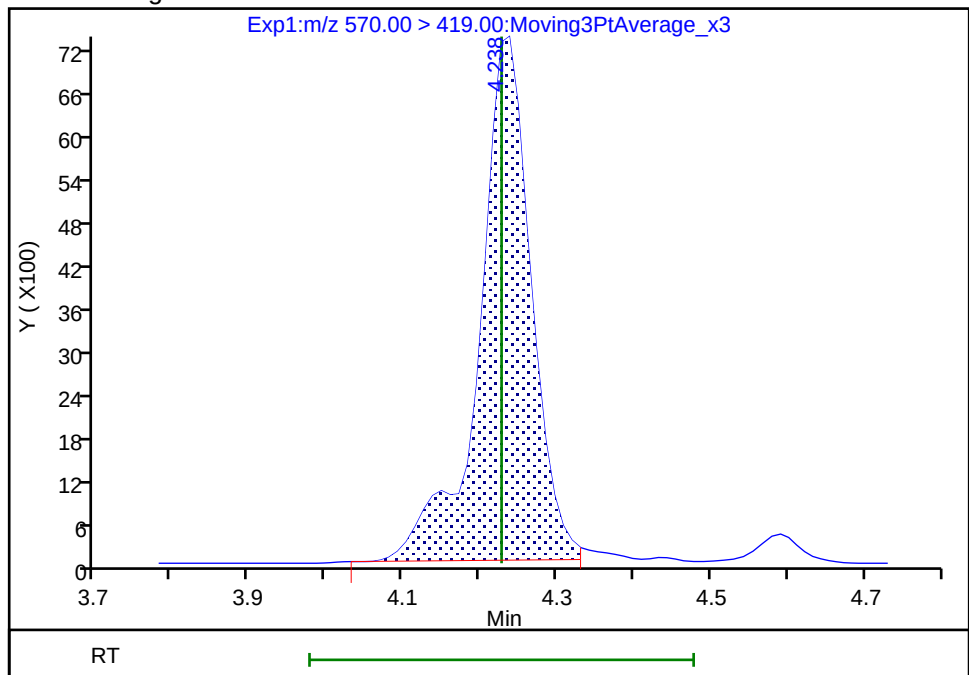
RT: 4.24
Area: 32710
Amount: 0.089959
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 34156
Amount: 0.092118
Amount Units: ng/ml

Manual Integration Results



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Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

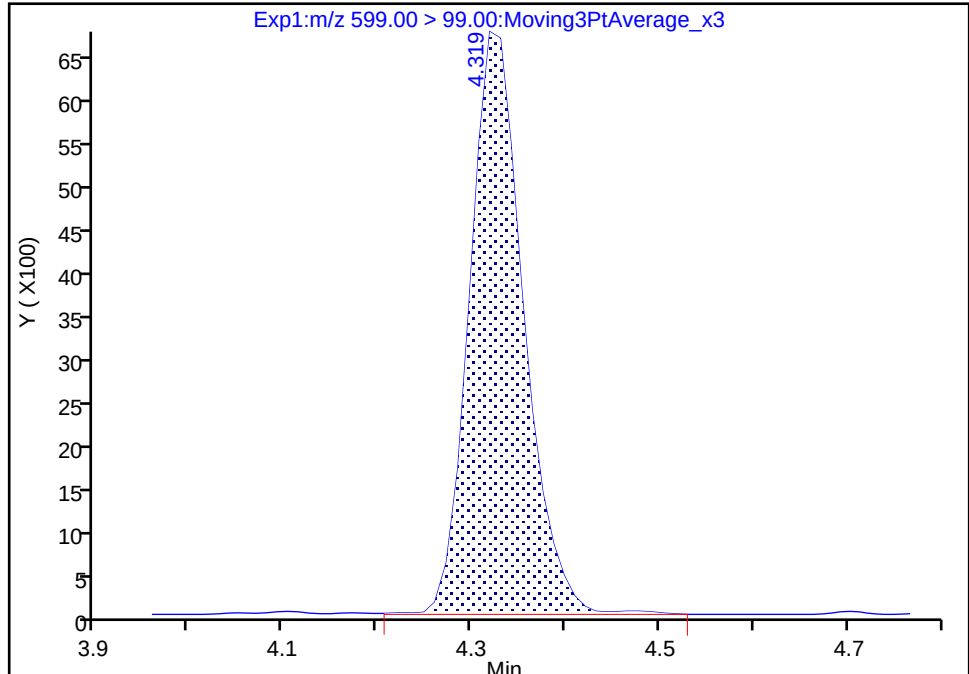
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

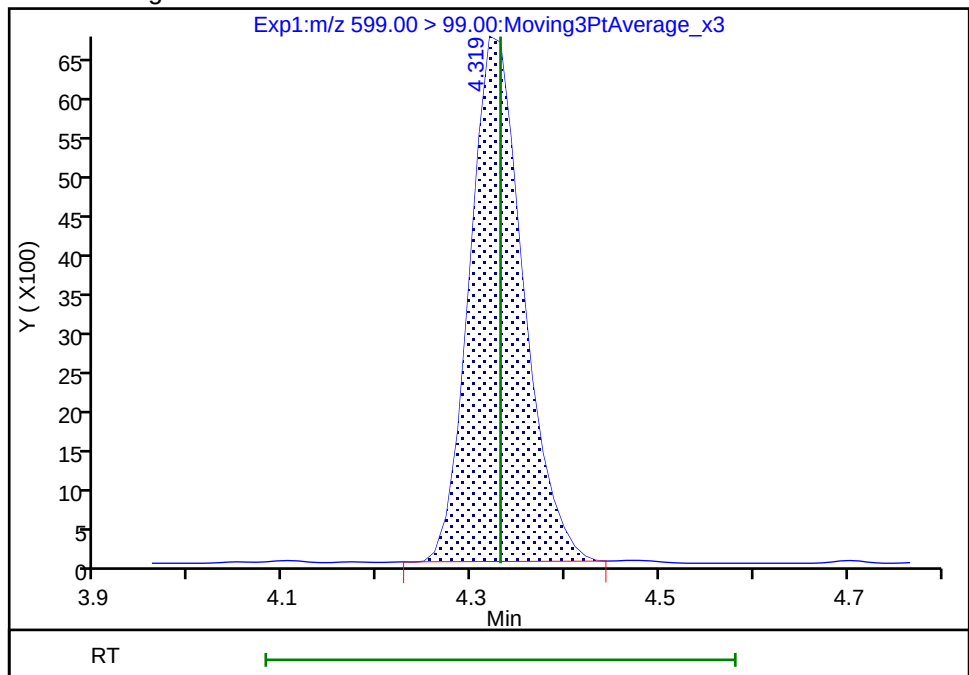
RT: 4.32
Area: 27216
Amount: 0.096282
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 26777
Amount: 0.099171
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

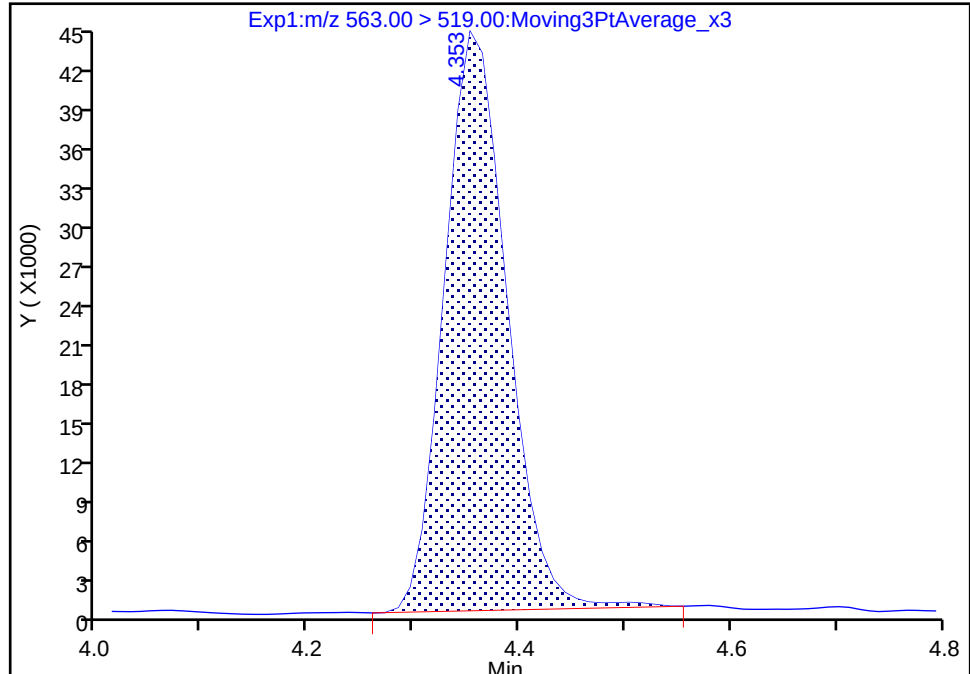
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

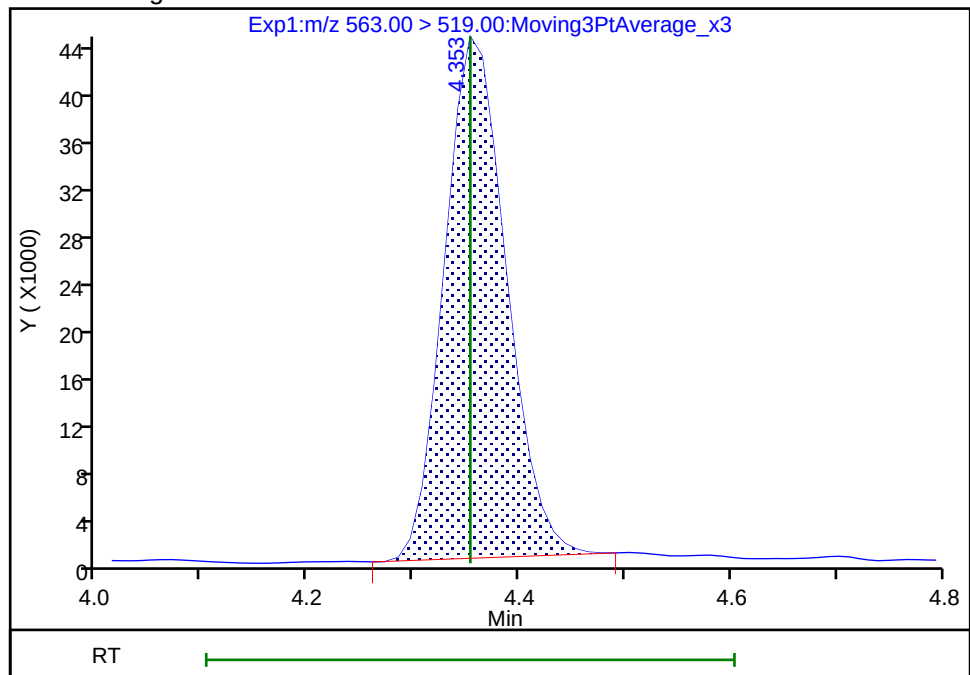
RT: 4.35
Area: 179706
Amount: 0.100640
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 176444
Amount: 0.103263
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

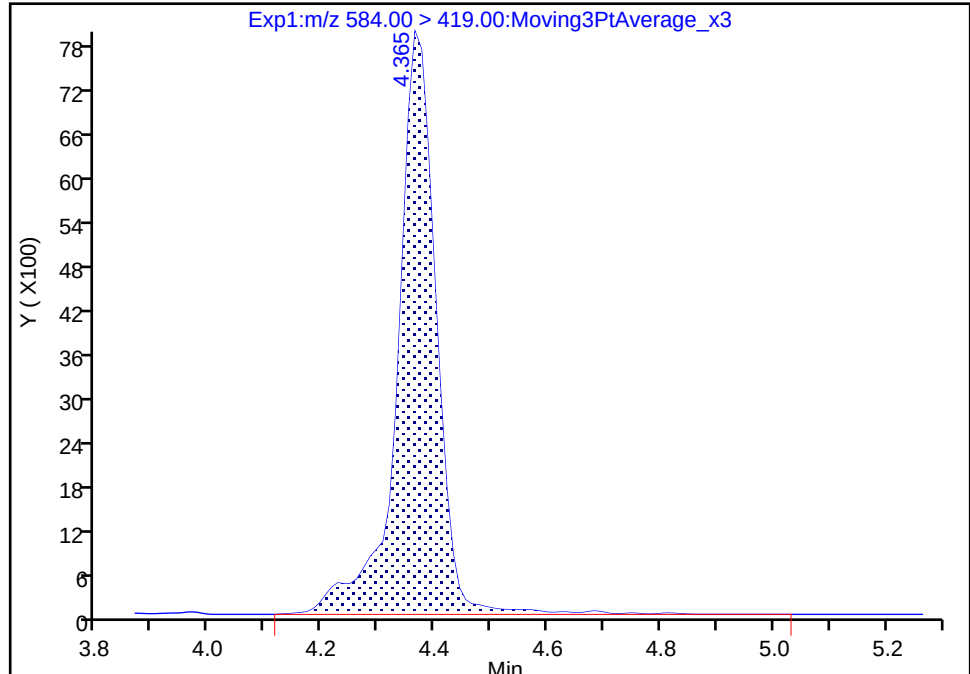
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

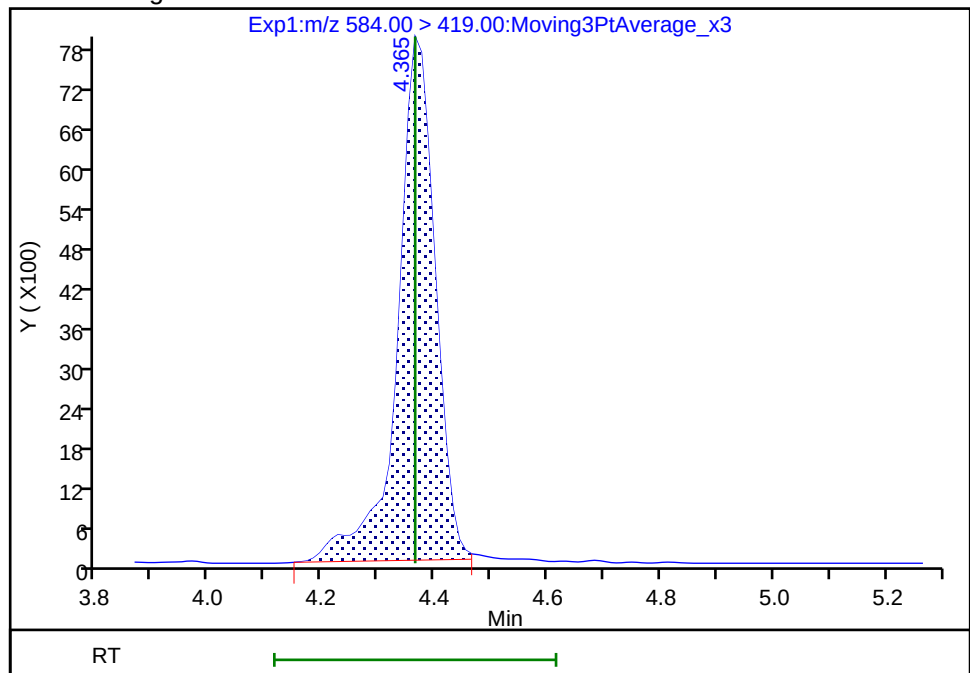
RT: 4.36
Area: 38260
Amount: 0.101365
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 36650
Amount: 0.106207
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

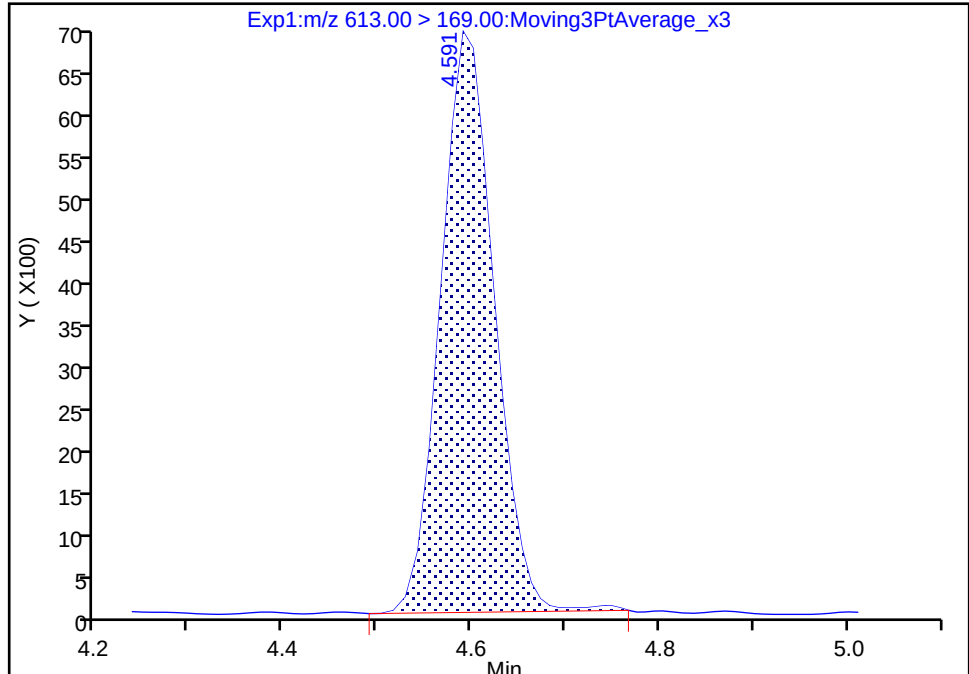
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

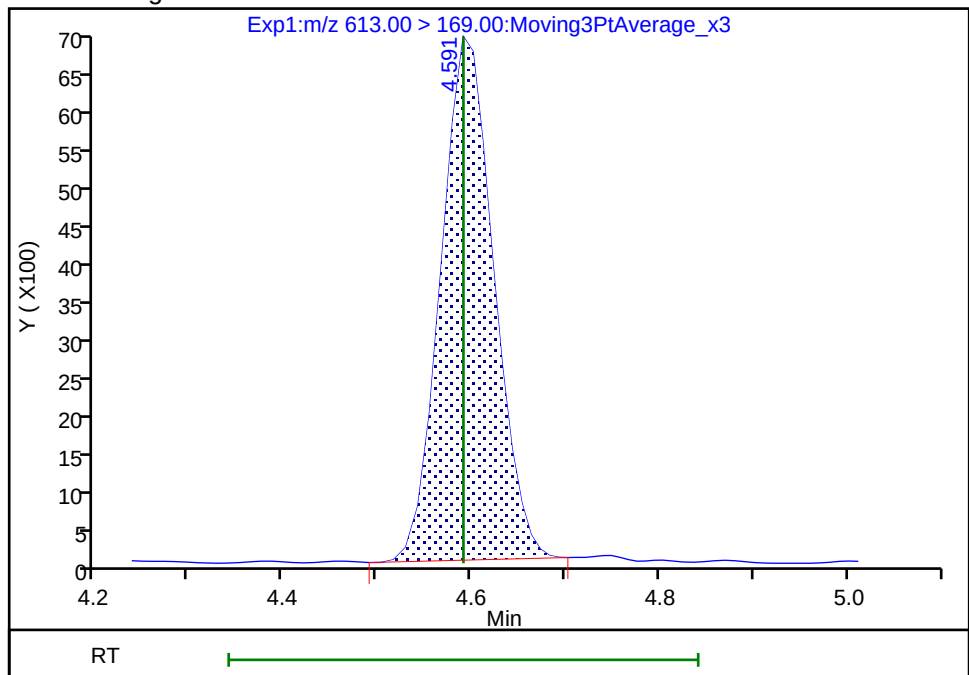
RT: 4.59
Area: 27250
Amount: 0.099538
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 26866
Amount: 0.106894
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

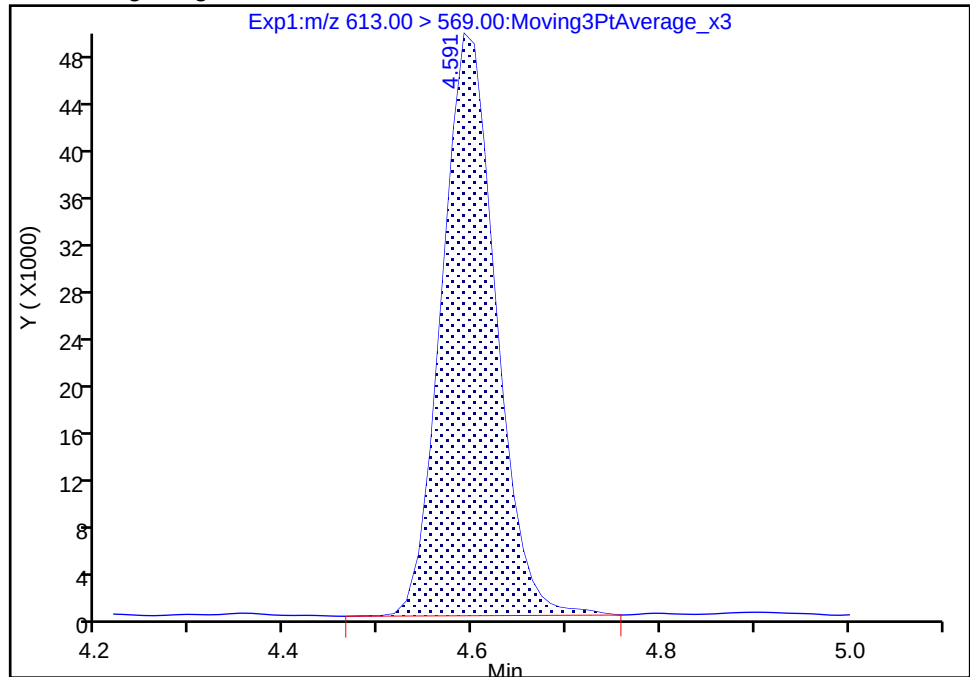
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

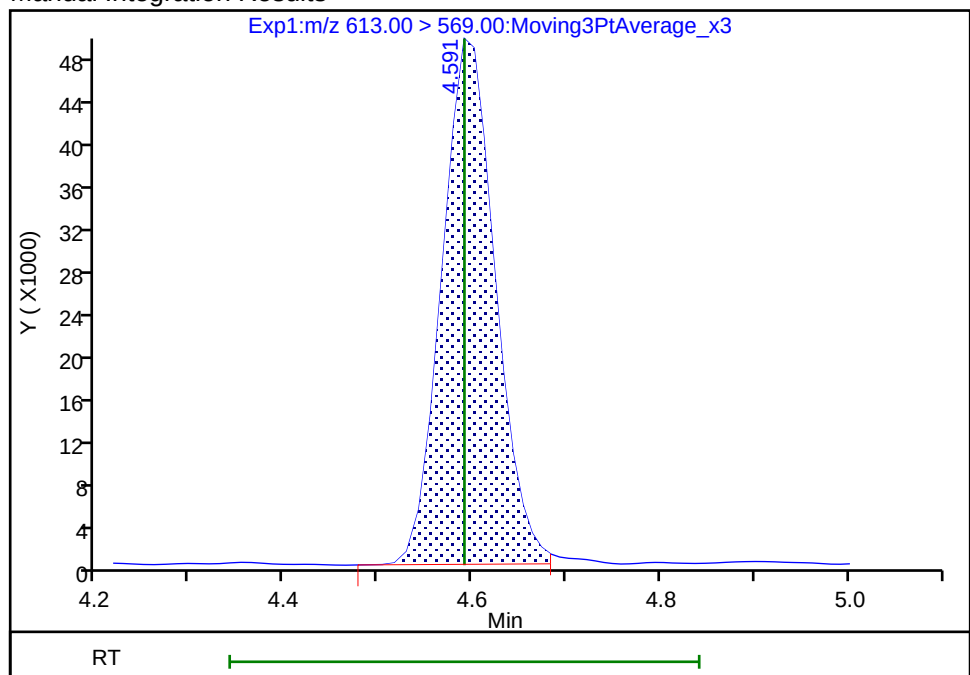
RT: 4.59
Area: 197049
Amount: 0.099538
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 194829
Amount: 0.106894
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

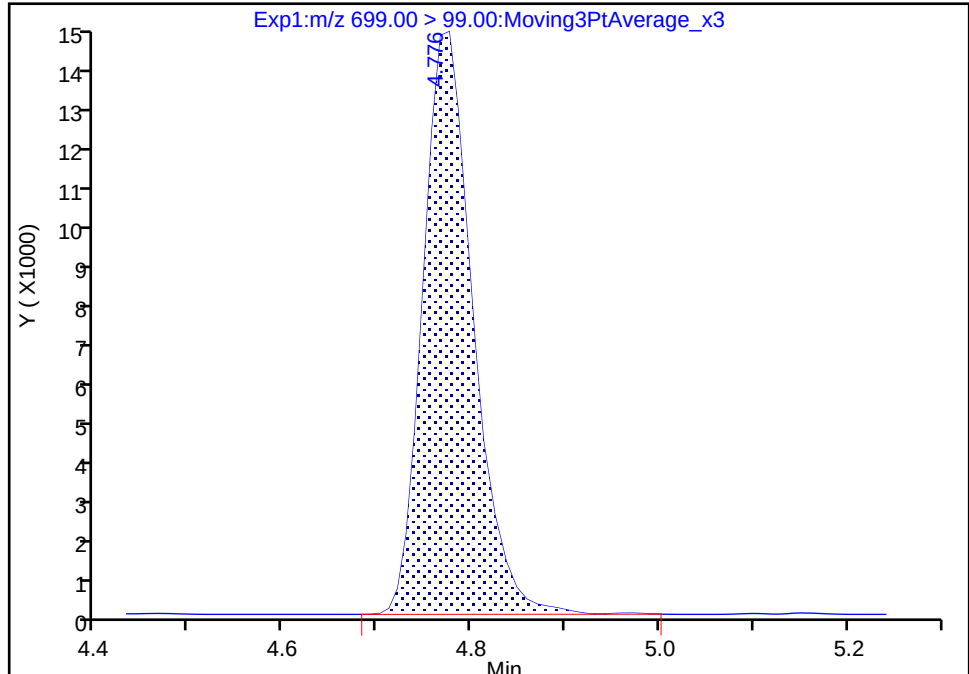
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

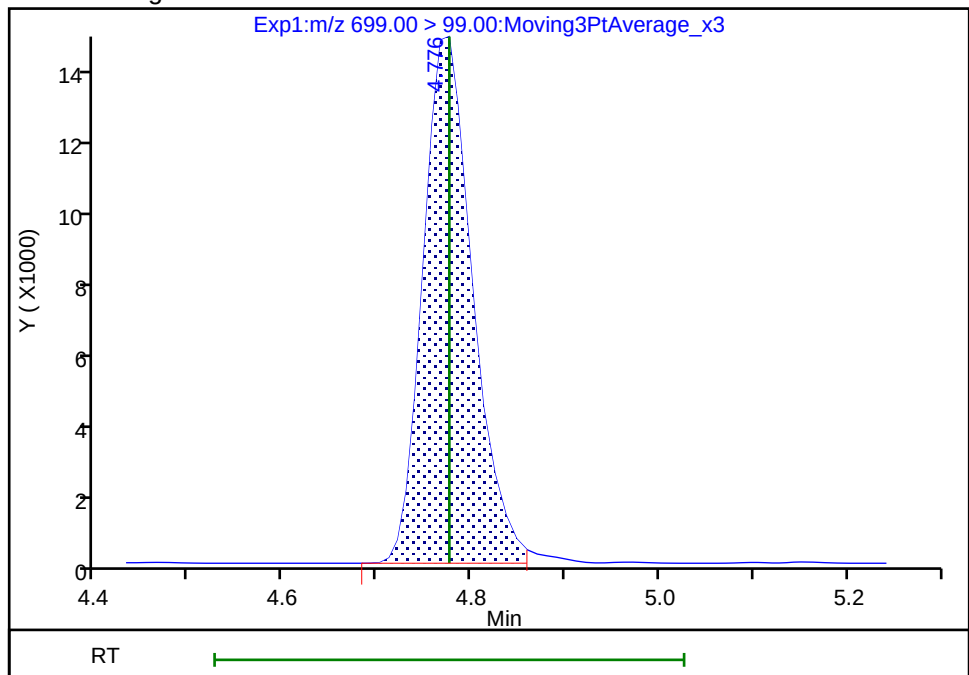
RT: 4.78
Area: 52070
Amount: 0.097278
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 51408
Amount: 0.102415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:36
Audit Action: Manually Integrated

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Eurofins Burlington

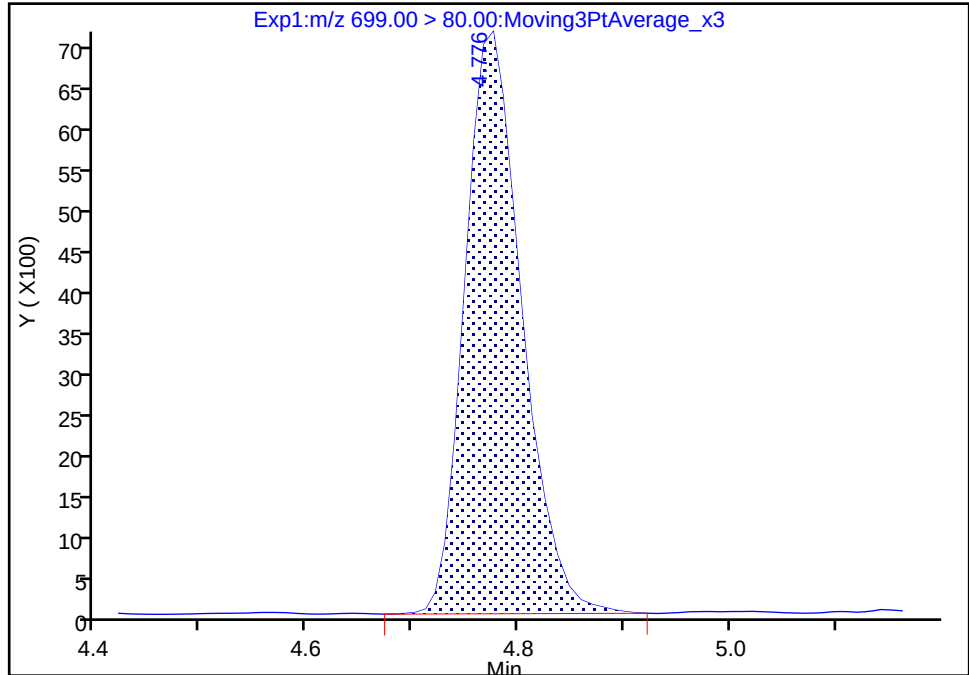
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

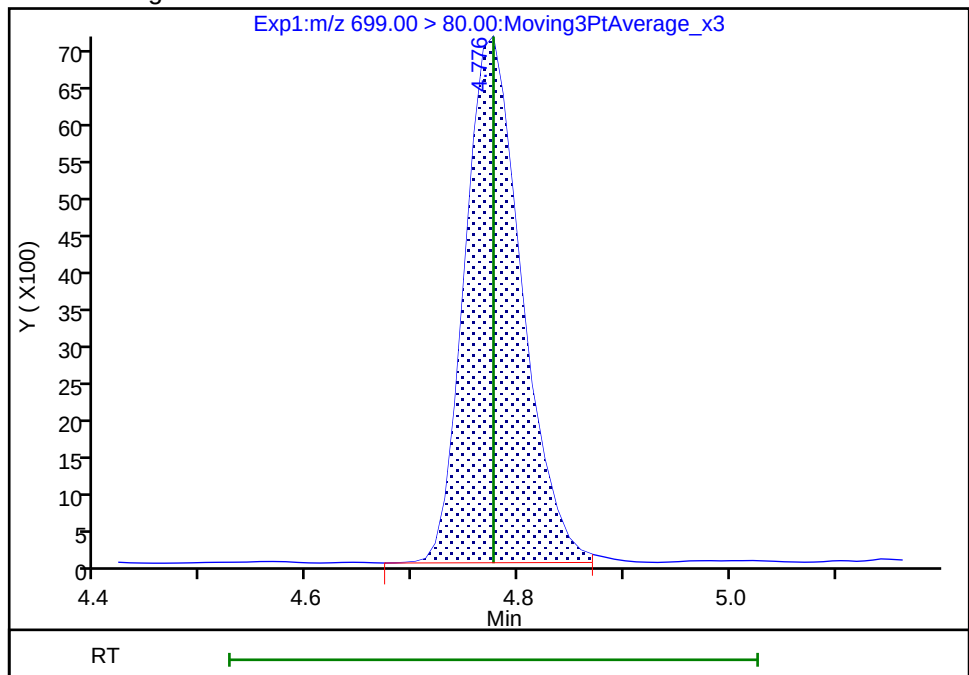
RT: 4.78
Area: 26672
Amount: 0.097278
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 26552
Amount: 0.102415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:40

Audit Action: Manually Integrated

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Eurofins Burlington

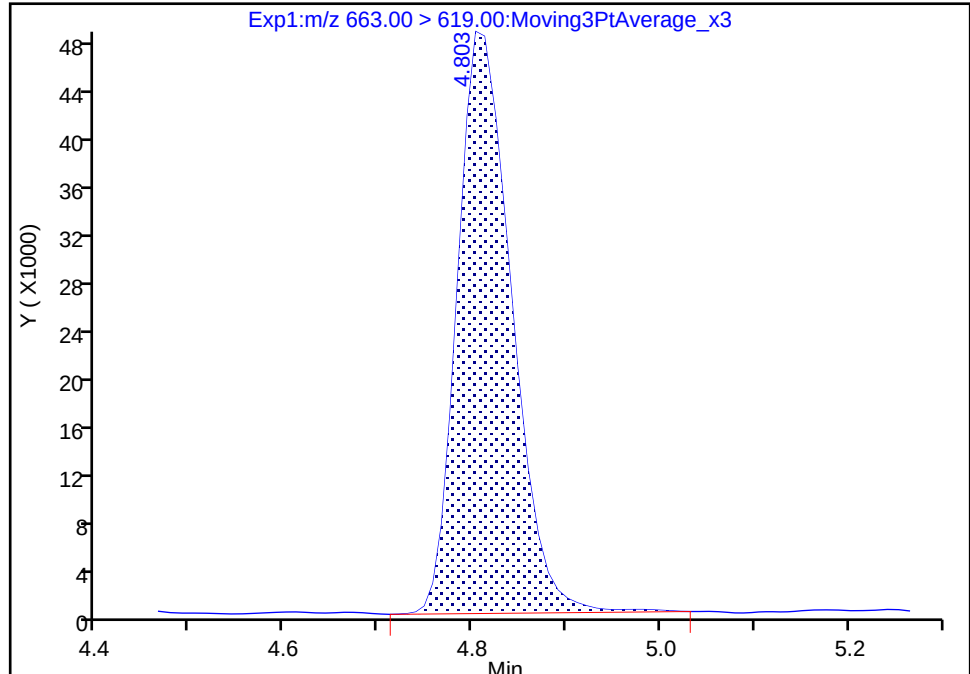
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

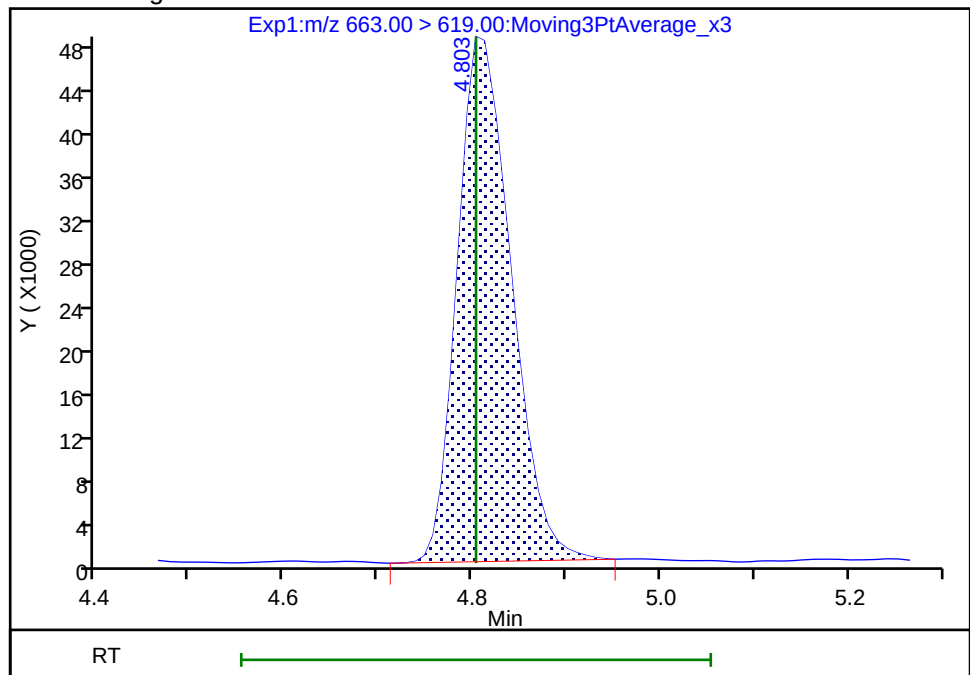
RT: 4.80
Area: 191046
Amount: 0.101171
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 189059
Amount: 0.108461
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

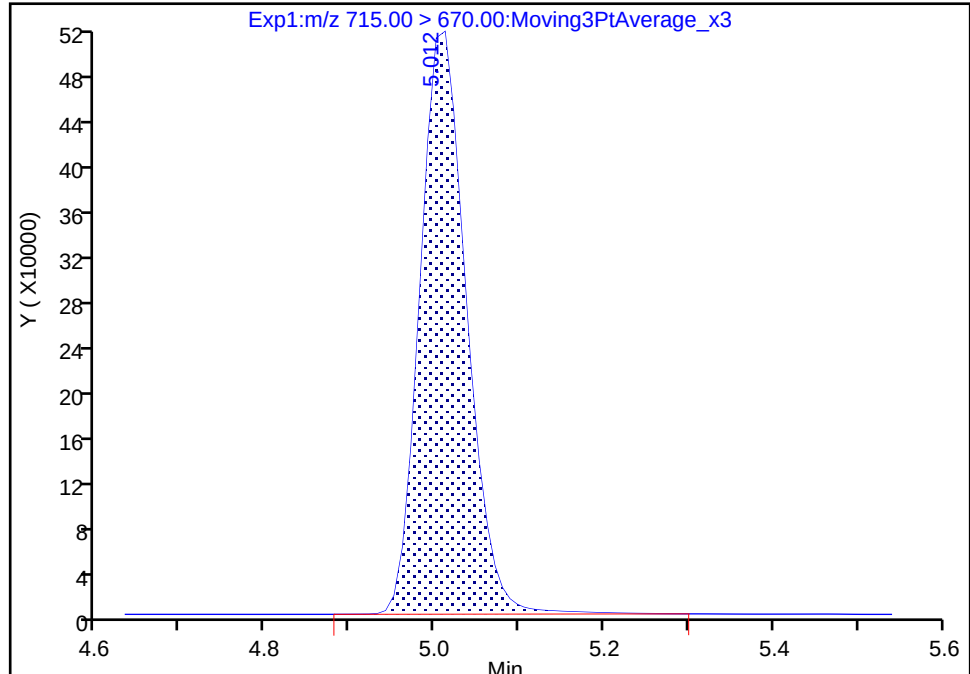
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

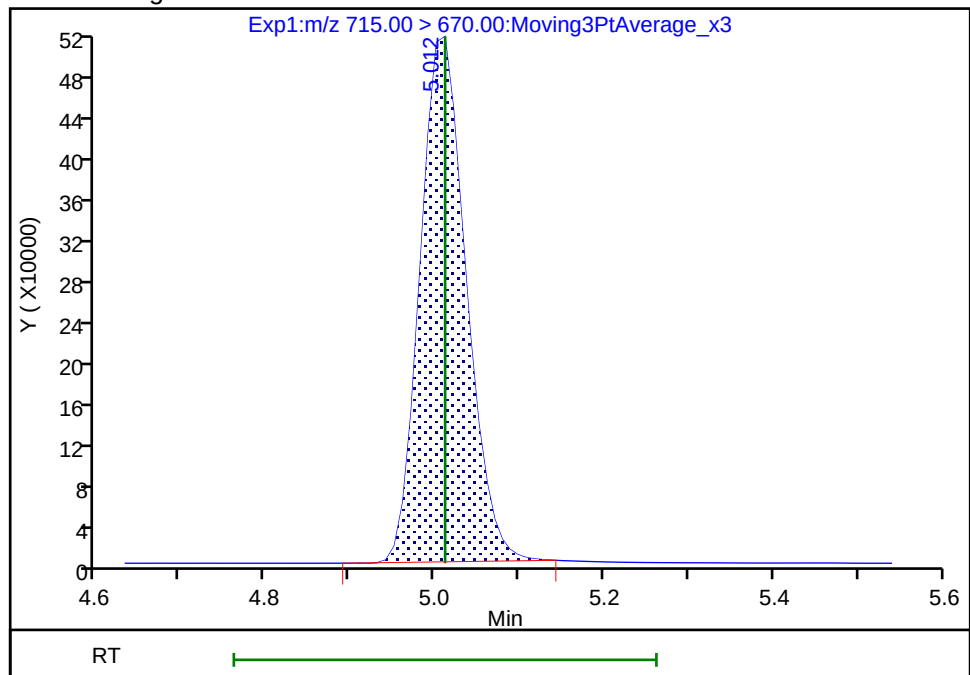
RT: 5.01
Area: 1965548
Amount: 1.242220
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1938056
Amount: 1.232163
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

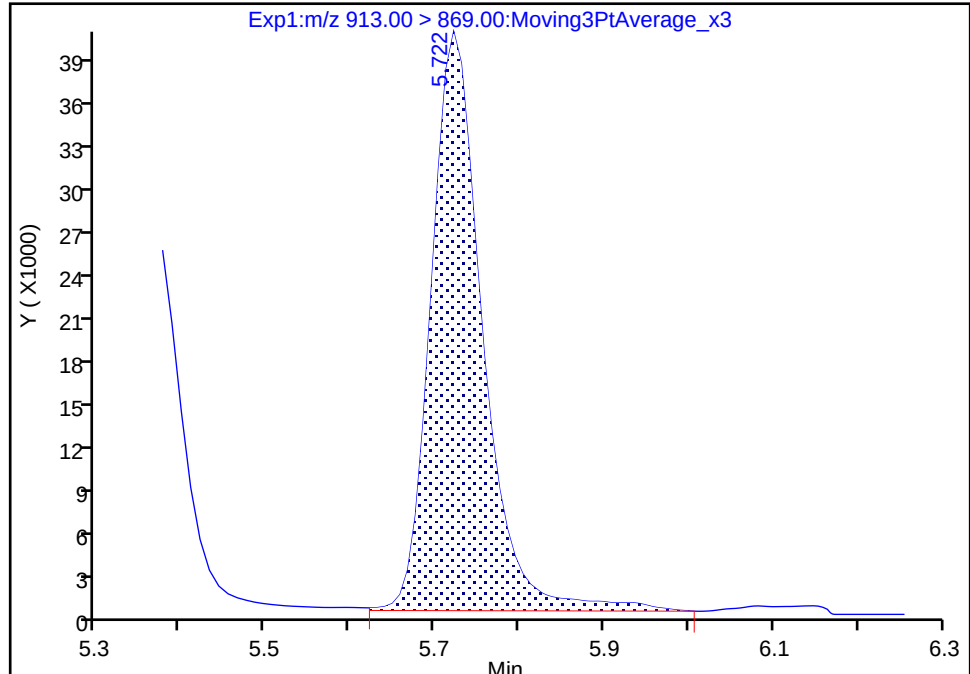
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

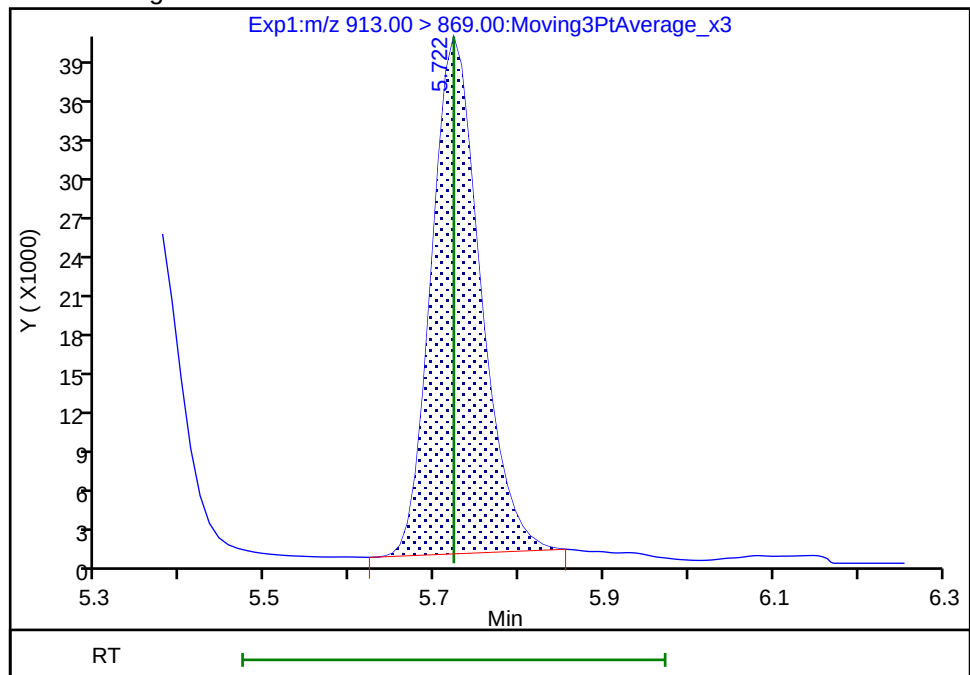
RT: 5.72
Area: 170572
Amount: 0.102523
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 159361
Amount: 0.100699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 303 of 951

12/21/2022
3:12 PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Nov-2022 14:46:15 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:34 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:05:27

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	2.077	2.076	0.001	0.601	2637410	1.23		98.3	11854	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	1137760	0.5229		105	108	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.691	2052396	1.26		100	3508	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	929016	0.5192		104	24.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.694	2040575	1.15		98.8	334958	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.414	2.400	0.014	1.006	899900	0.4481	Target=2.14	101	1321	
298.90 > 99.00	2.414	2.400	0.014	1.006	430748		2.09(1.07-3.21)	101	317	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	229433	0.4862		104	2008	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.701	2.689	0.012	0.781	178810	1.14		97.6	203	
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.792	2177304	1.27		102	5404	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	992048	0.5227	Target=13.44	105	212	M
313.00 > 119.00	2.738	2.725	0.013	1.000	70446		14.08(6.72-20.15)	105	109	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.738	2.737	0.001	0.883	837304	0.5028	Target=2.98	107	1270	M
349.00 > 99.00	2.738	2.737	0.001	0.883	277034		3.02(1.49-4.47)	107	689	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.847	2.835	0.012	0.824	378942	1.25		100	2213	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.000	174879	0.5463		109	738	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.897	1474490	1.14		96.4	2992	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.000	680406	0.4835	Target=3.57	106	613	M
399.00 > 99.00	3.099	3.088	0.011	1.000	185398		3.67(1.78-5.35)	106	227	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.099	3.099	0.0	0.897	2150118	1.22		97.6	2578	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	1003322	0.5357	Target=3.93	107	220	
363.00 > 169.00	3.099	3.099	0.0	1.000	251672		3.99(1.96-5.89)	107	546	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	2408962	0.5050	Target=3.08	107	2523	M
377.00 > 85.00	3.132	3.132	0.0	0.832	760123		3.17(1.54-4.62)	107	909	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.995	247623	1.14		96.1	604	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	235479	0.5227		110	570	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	616490	0.5096	Target=5.16	107	2611	
449.00 > 99.00	3.439	3.439	0.0	0.914	120467		5.12(2.58-7.74)	107	616	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	0.997	2474245	1.25		99.9	3212	
* 62 13C2 PFOA										
415.00 > 370.00	3.457	3.448	0.009		2392397	1.25			3521	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.457	3.448	0.009	1.003	1110144	0.5246	Target=2.82	105	82.7	
413.00 > 169.00	3.457	3.448	0.009	1.003	391263		2.84(1.41-4.23)	105	806	
D 18 13C4 PFOS										M
503.00 > 80.00	3.764	3.764	0.0	1.089	1035061	1.18		98.6	2361	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.774	3.764	0.010	1.003	471879	0.4480	Target=5.01	96.5	102	M
499.00 > 99.00	3.764	3.764	0.0	1.000	103252		4.57(2.50-7.51)	96.5	102	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.783	3.783	0.0	1.094	2379680	1.24		98.9	2665	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	1050495	0.5319	Target=8.49	106	218	
463.00 > 169.00	3.783	3.783	0.0	1.000	118713		8.85(4.25-12.74)	106	803	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	1190983	0.4926		106	2626	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	390435	0.4911	Target=2.60	102	2933	
549.00 > 99.00	4.061	4.050	0.011	1.079	149046		2.62(1.30-3.90)	102	1506	
D 23 13C2 PFDA										M
515.00 > 470.00	4.082	4.081	0.001	1.181	2334094	1.19		95.2	2867	M

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	4.093	4.081	0.012	1.003	1184639	0.5850	Target=10.03	117	511	
513.00 > 169.00	4.093	4.081	0.012	1.003	108172		10.95(5.02-15.05)	117	172	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.184	321045	1.21		101	876	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	222425	0.5131		107	1417	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	835408	0.5081		102	1225	
D 21 13C8 FOSA										M
506.00 > 78.00	4.150	4.150	0.0	1.201	1967036	1.22		97.8	2140	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.223	466044	1.17		93.3	922	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.239	4.228	0.011	1.003	183478	0.5604		112	288	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.332	4.331	0.001	1.151	325384	0.5183	Target=2.58	108	1654	
599.00 > 99.00	4.332	4.331	0.001	1.151	120718		2.70(1.29-3.86)	108	963	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.353	0.002	1.000	1004863	0.5589	Target=10.10	112	429	M
563.00 > 169.00	4.355	4.353	0.002	1.000	95565		10.51(5.05-15.15)	112	1035	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.355	4.353	0.002	1.260	2230172	1.24		99.3	2329	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.377	4.365	0.012	1.003	182262	0.5108		102	737	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.365	0.001	1.263	498173	1.27		101	956	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.455	4.454	0.001	1.184	1834007	0.4921		104	3964	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.602	4.591	0.011	1.000	1027352	0.5397	Target=7.41	108	64.0	
613.00 > 169.00	4.591	4.591	0.0	0.998	134691		7.63(3.70-11.11)	108	843	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.591	0.011	1.331	2245926	1.23		98.2	3386	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	125547	0.4819		100.0	653	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	135657	0.5107	Target=0.51	106	1367	M
699.00 > 99.00	4.776	4.776	0.0	1.269	264160		0.51(0.25-0.76)	106	1629	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.046	987678	0.5425	Target=5.40	109	72.4	M
663.00 > 169.00	4.813	4.804	0.009	1.046	186073		5.31(2.70-8.10)	109	641	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	113607	0.5327	Target=0.90	107	875	
713.00 > 219.00	5.002	5.012	-0.010	0.998	120383		0.94(0.45-1.35)	107	1031	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.450	1947280	1.23		98.4	2530	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.378	5.367	0.011	1.556	2348434	1.20		96.0	2289	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.000	978907	0.5496	Target=5.85	110	82.4	M
813.00 > 169.00	5.378	5.367	0.011	1.000	169718		5.77(2.93-8.78)	110	842	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.064	852104	0.5507	Target=6.30	110	86.6	M
913.00 > 169.00	5.722	5.722	0.0	1.064	133969		6.36(3.15-9.46)	110	557	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00015

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d

Injection Date: 18-Nov-2022 14:46:15

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

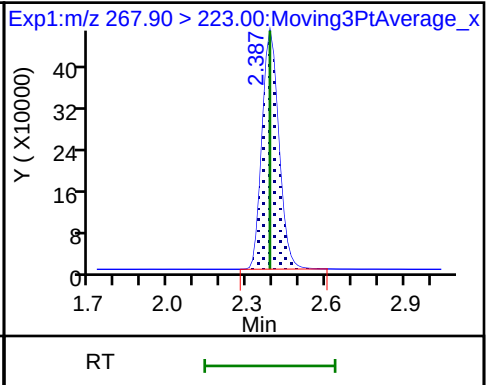
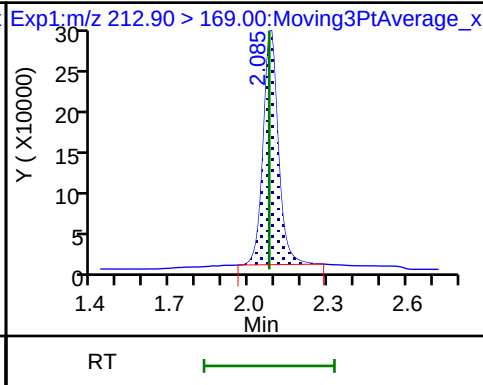
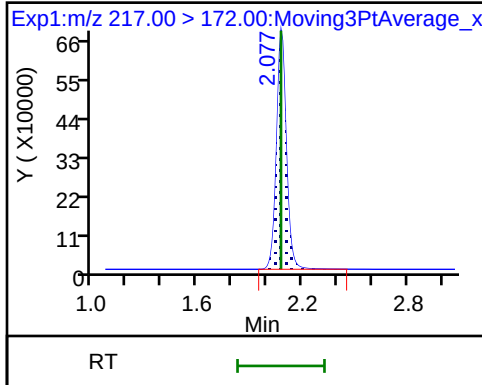
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

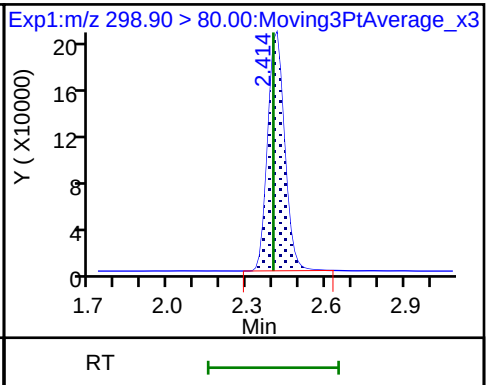
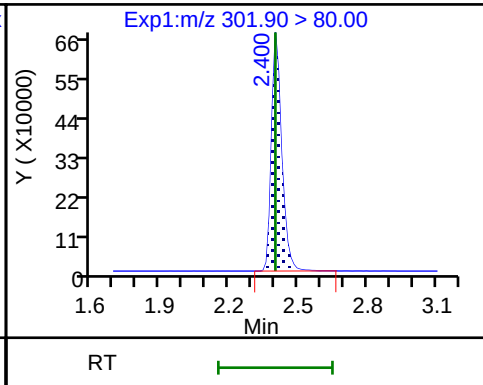
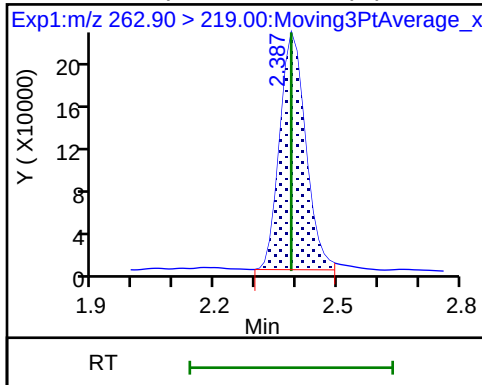
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

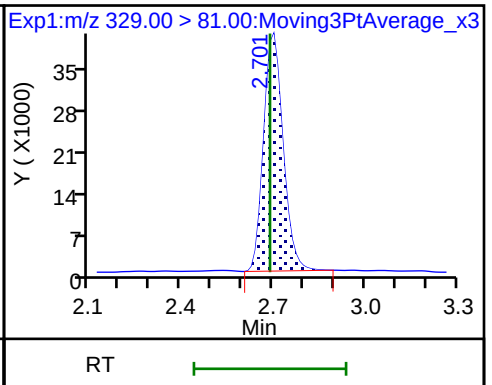
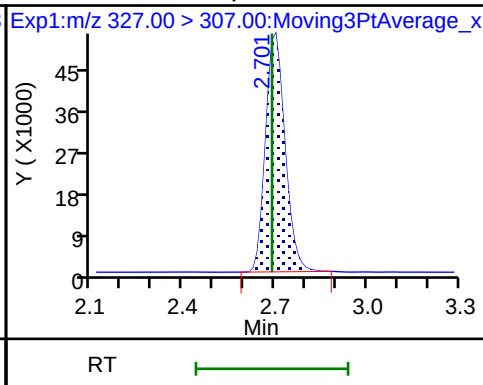
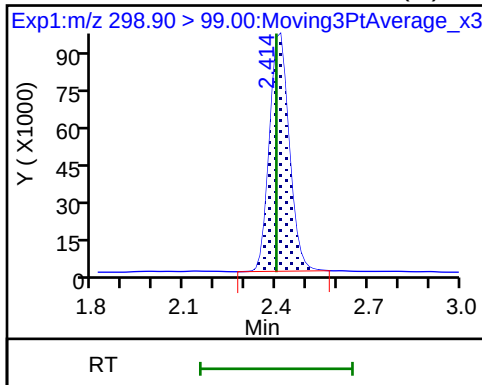
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

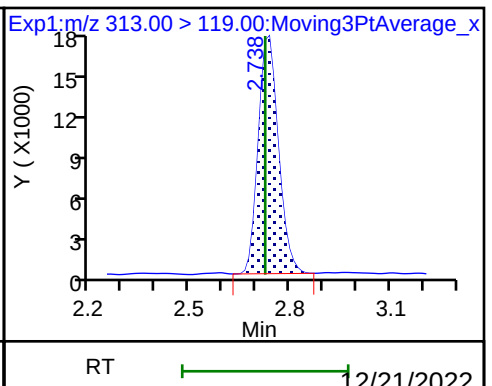
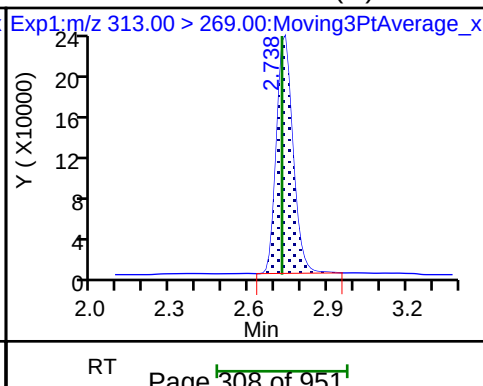
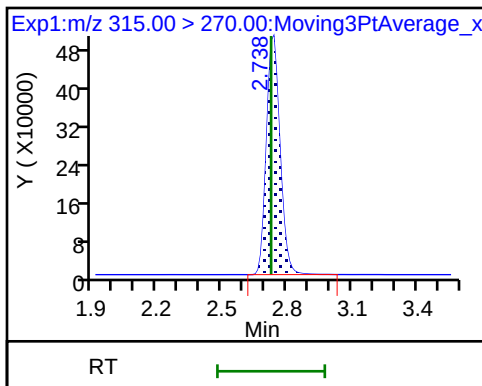
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

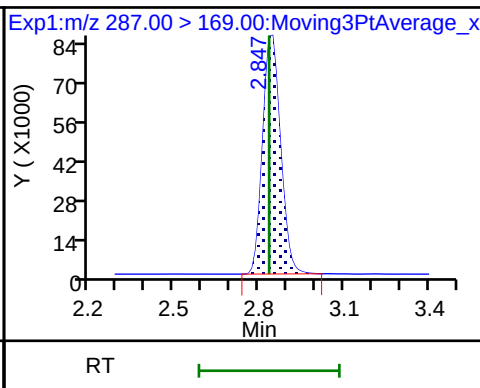
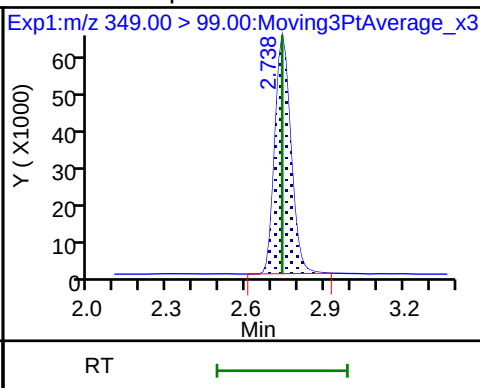
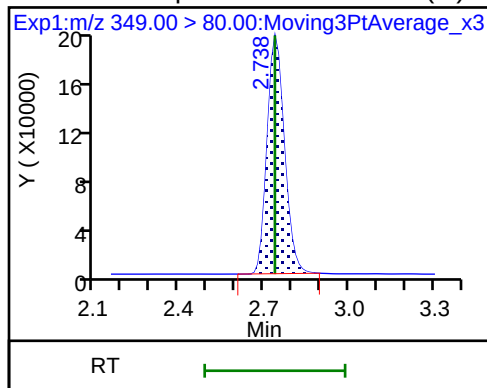
6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)

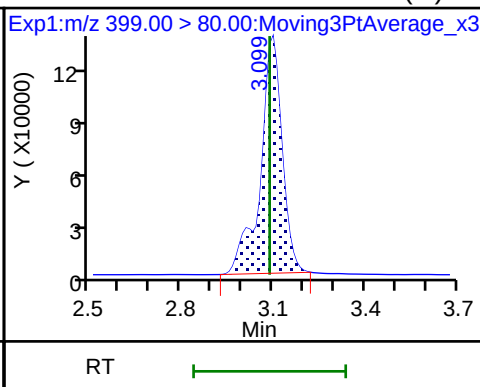
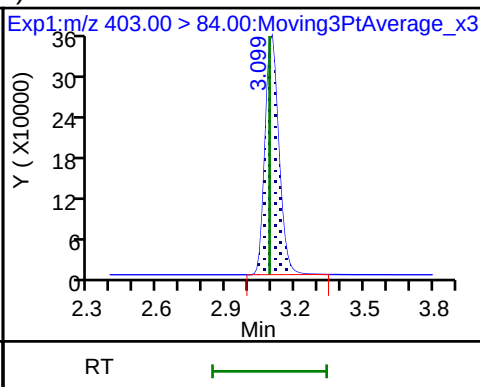
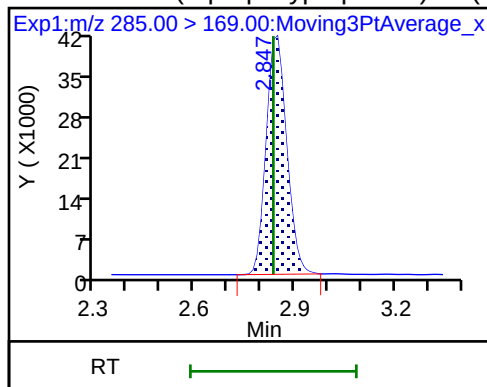
70 Perfluoropentanesulfonic acid

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS

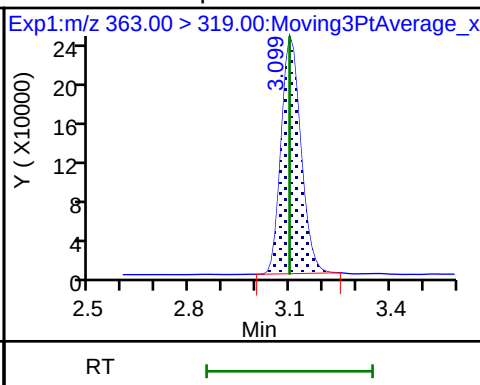
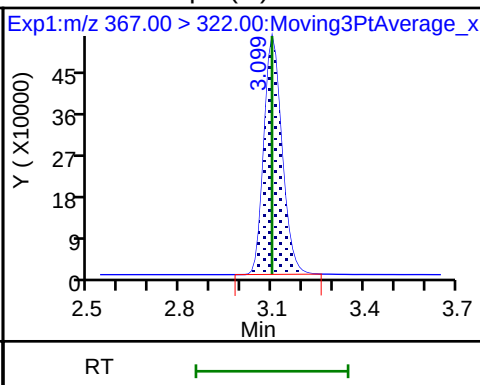
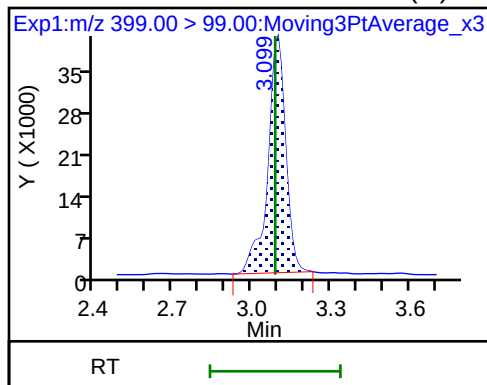
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA (M)

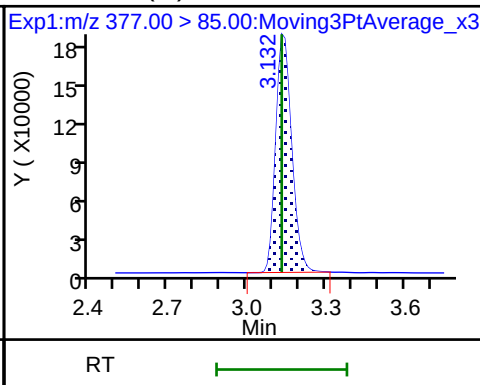
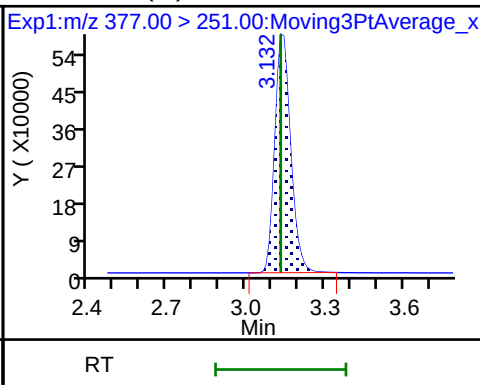
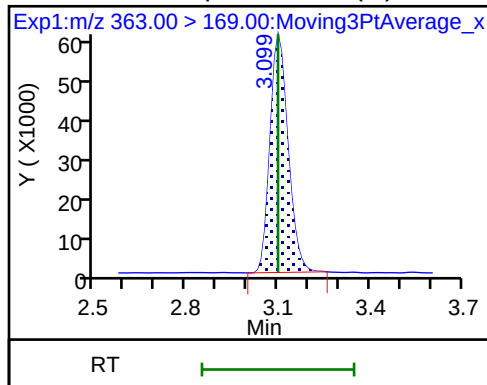
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid (M)

77 DONA (M)

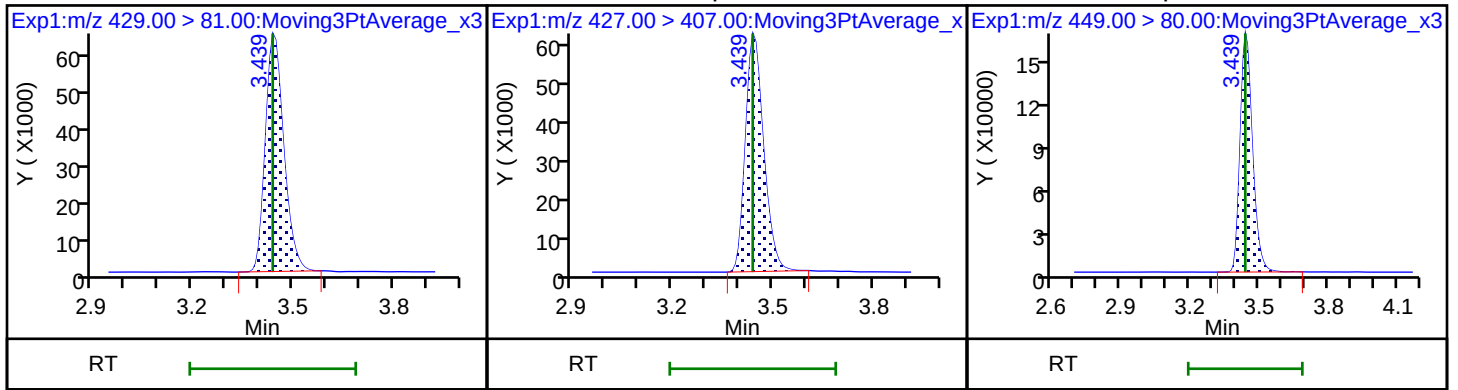
77 DONA (M)



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

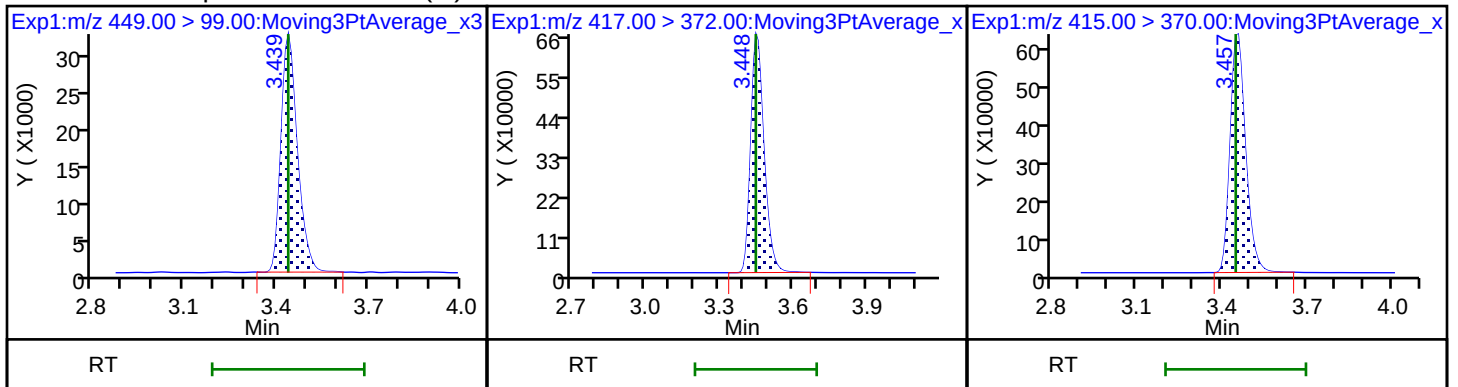
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

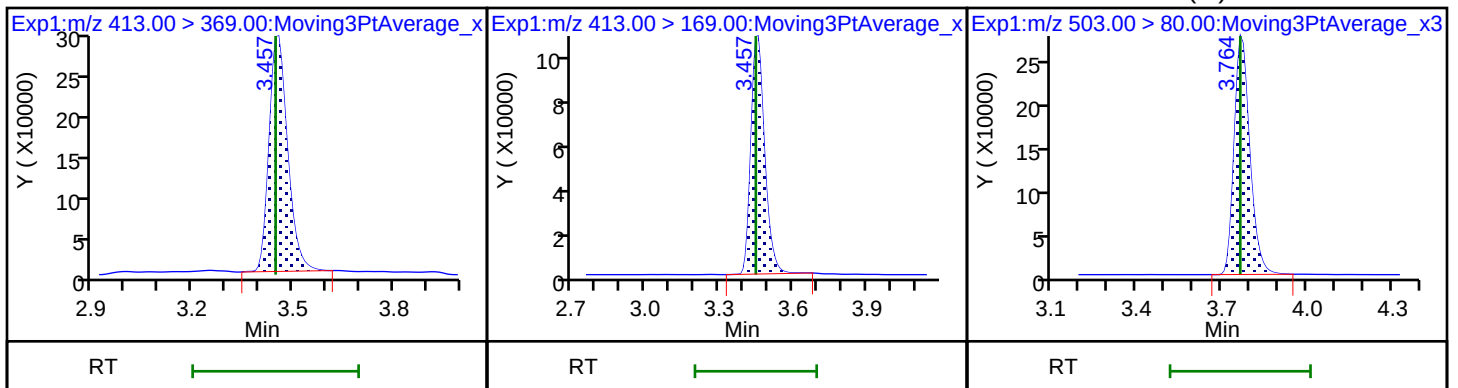
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

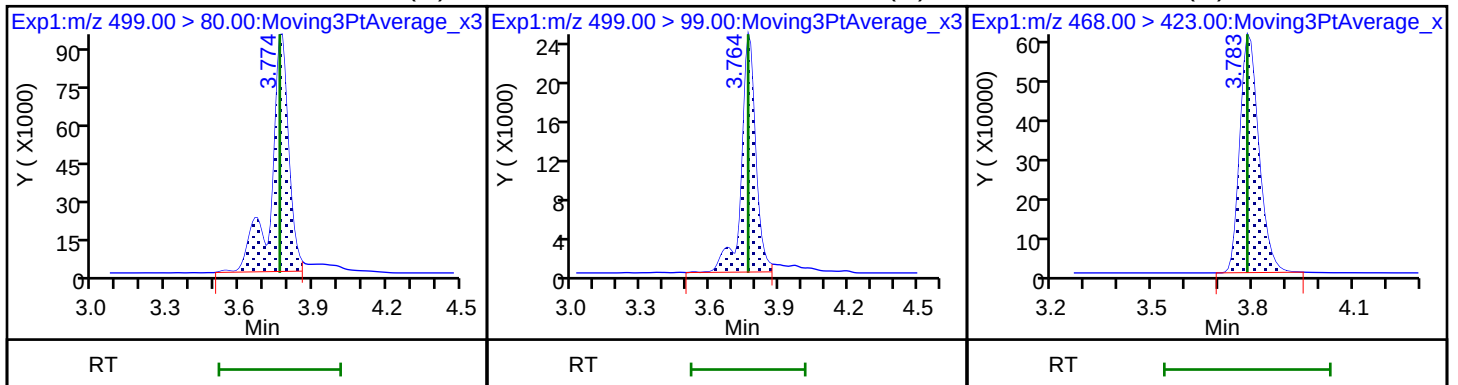
D 18 13C4 PFOS (M)

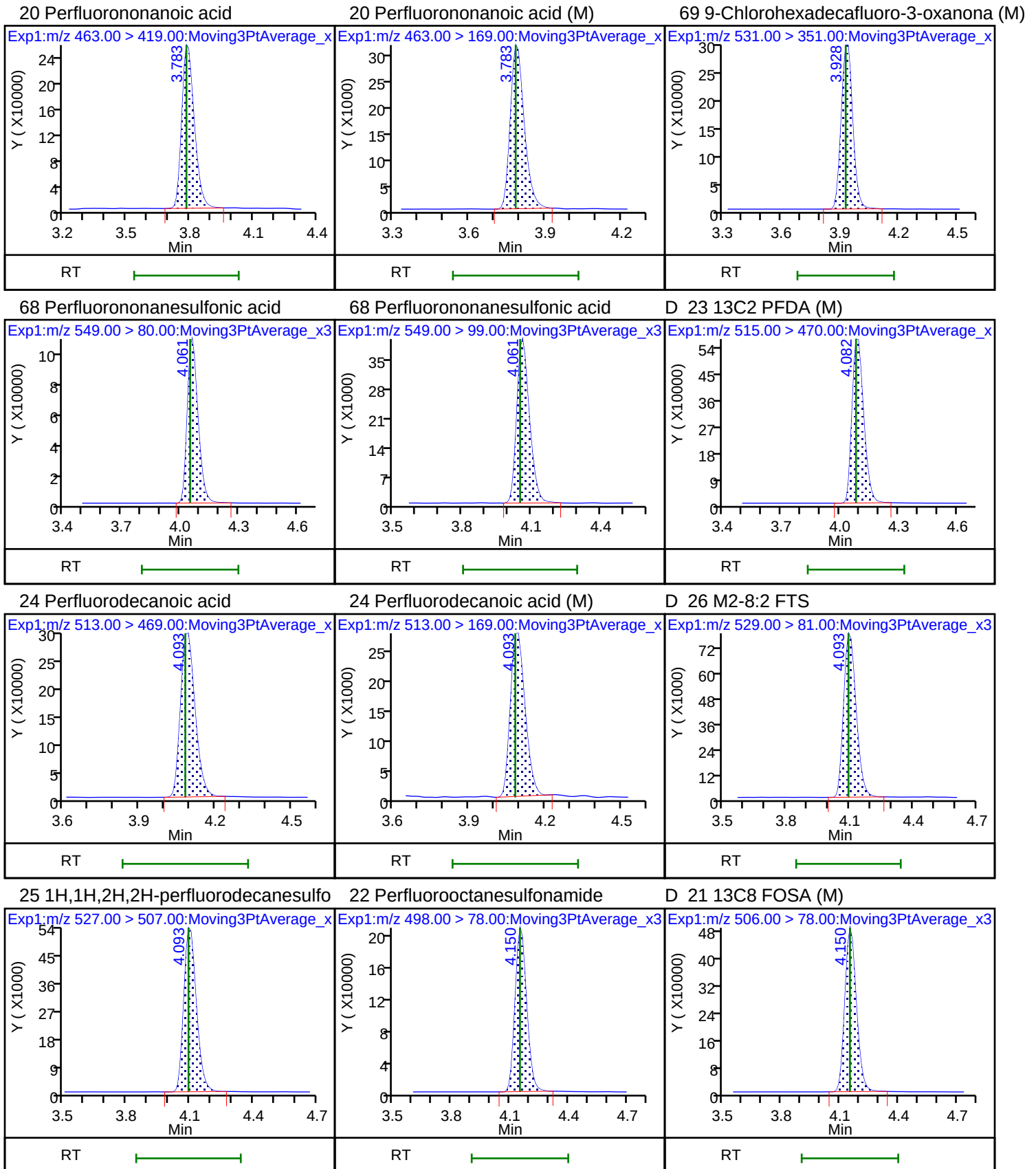


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA (M)

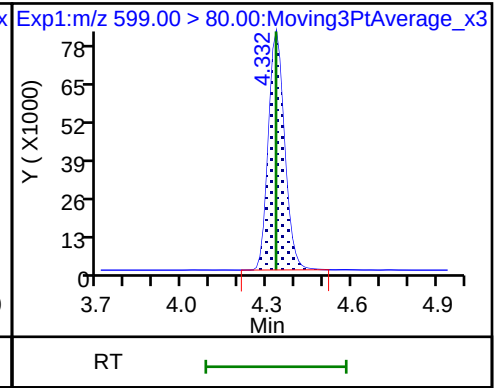
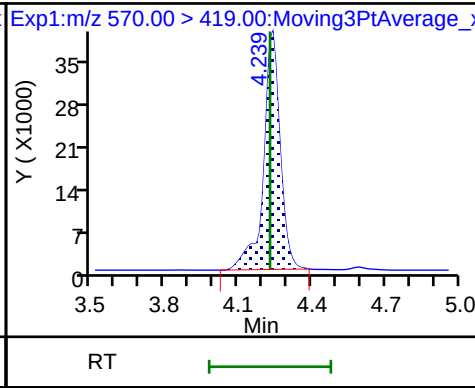
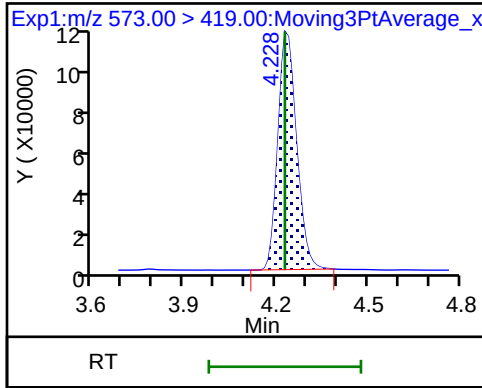




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

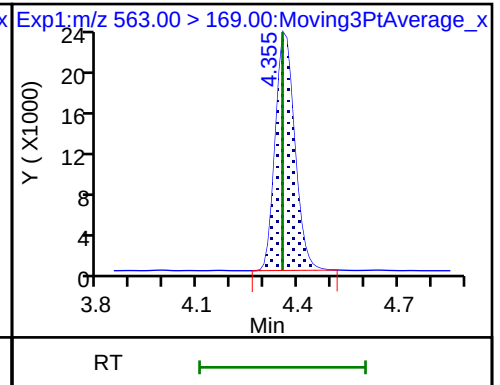
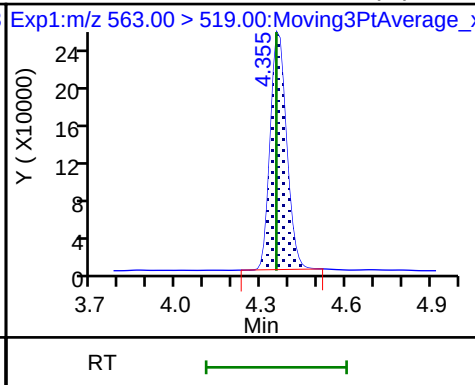
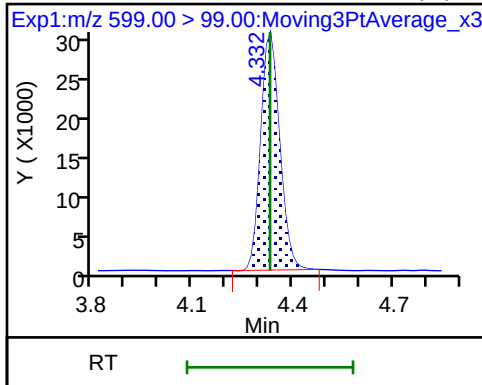
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

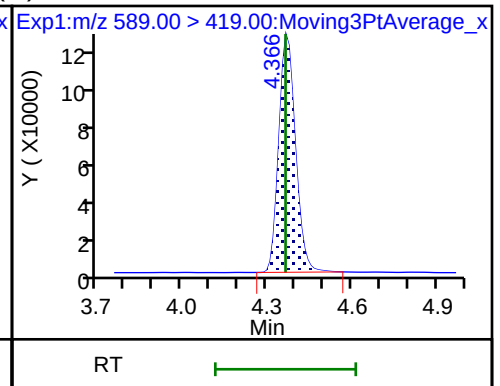
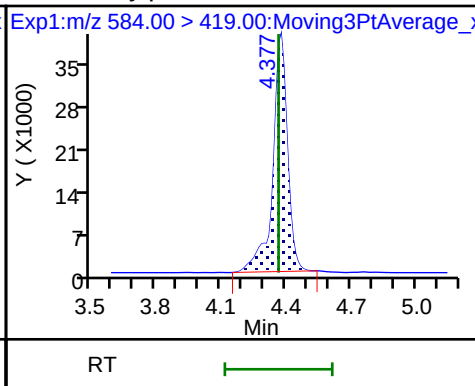
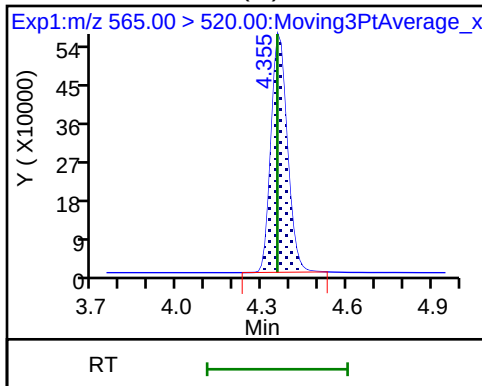
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA (M)

33 N-ethylperfluorooctanesulfonamid (M)

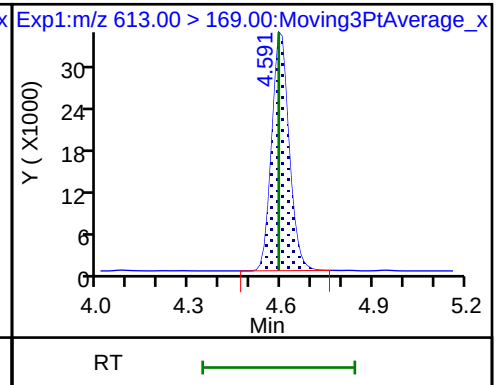
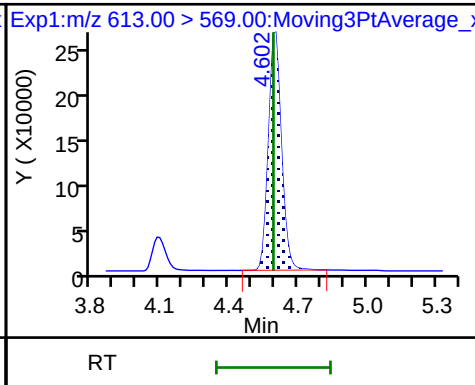
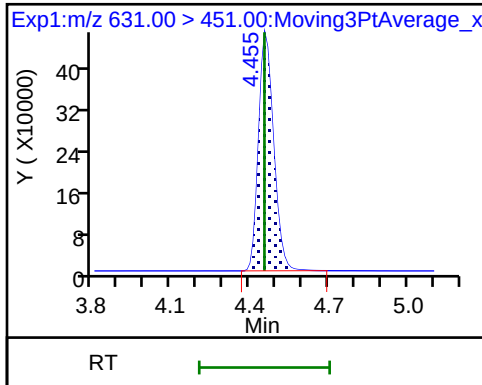
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

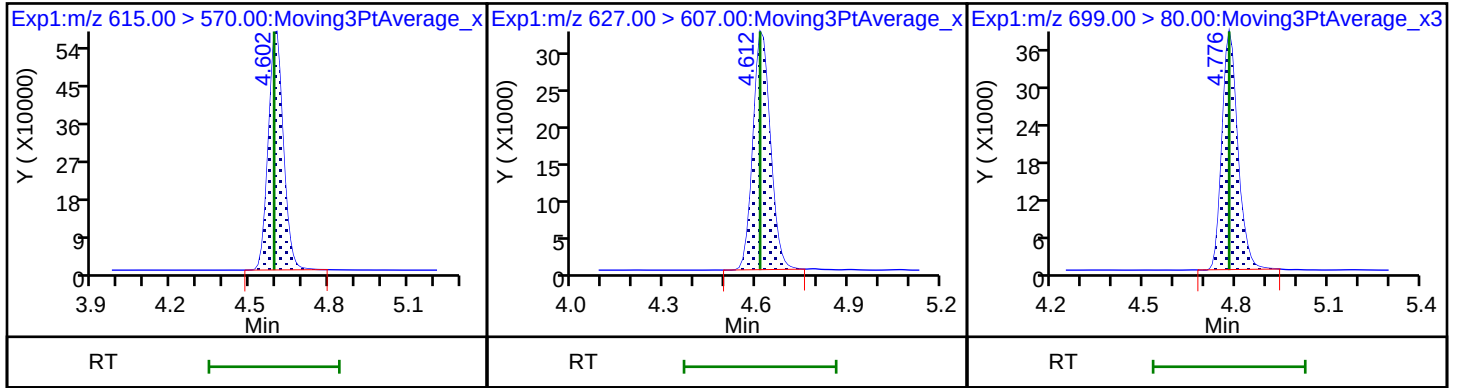
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



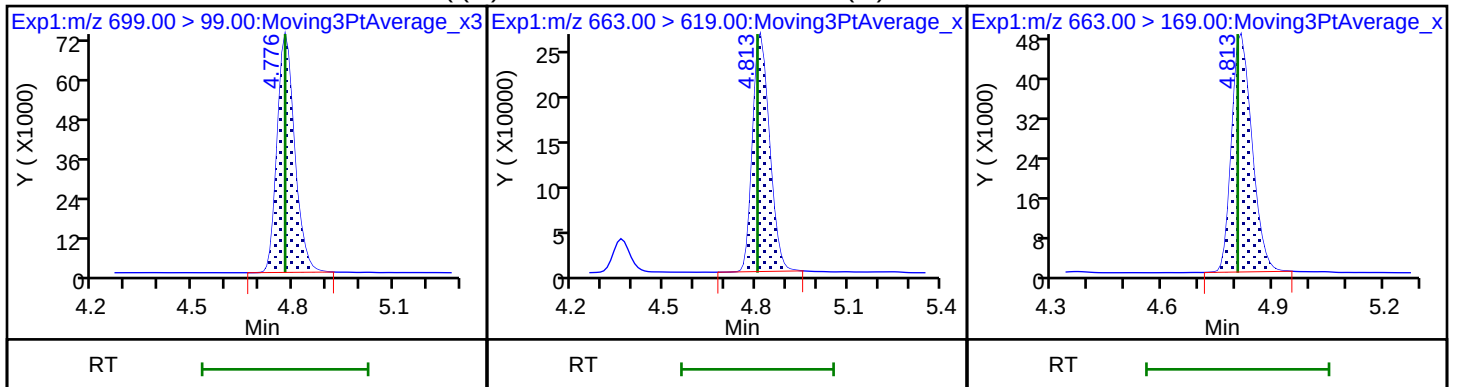
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

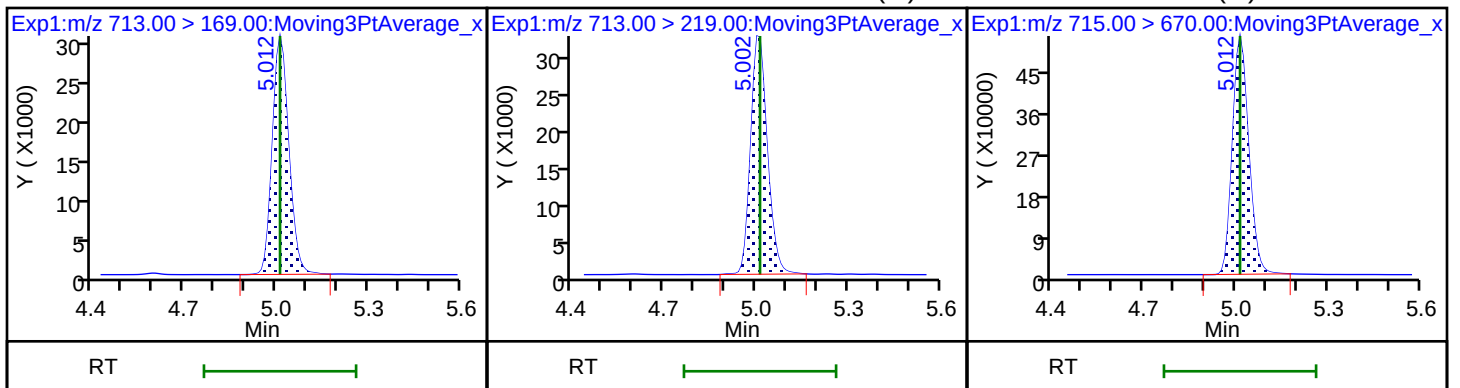
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

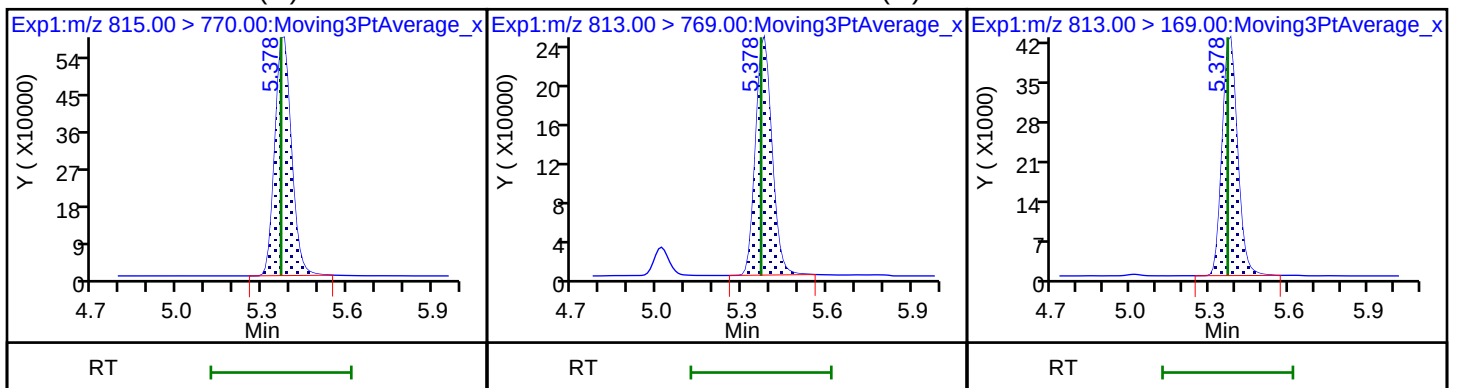
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

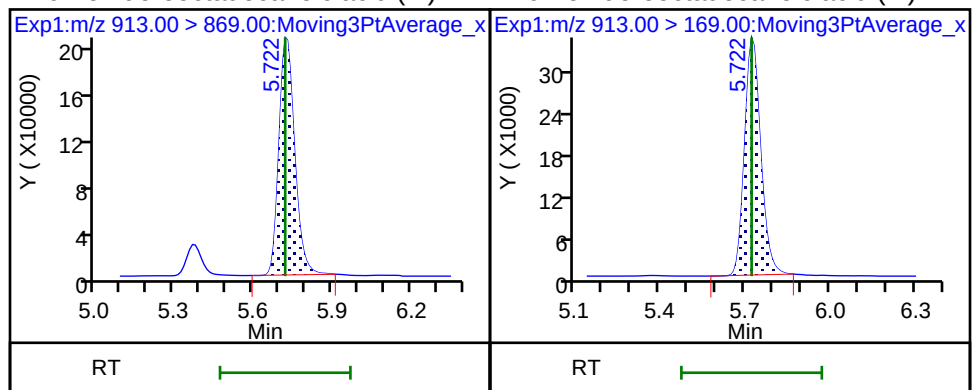
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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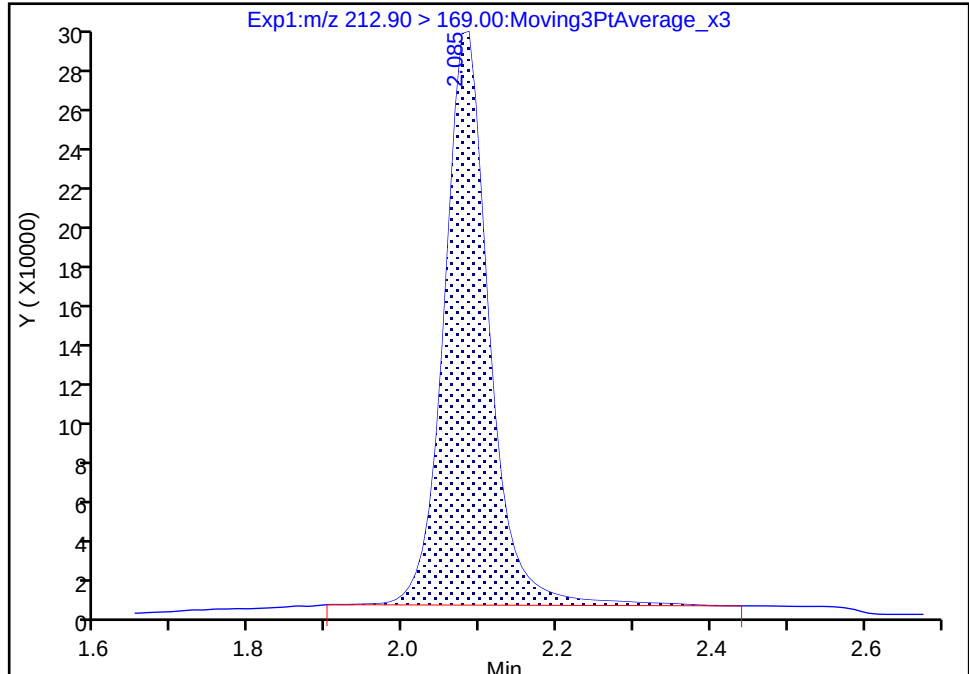
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

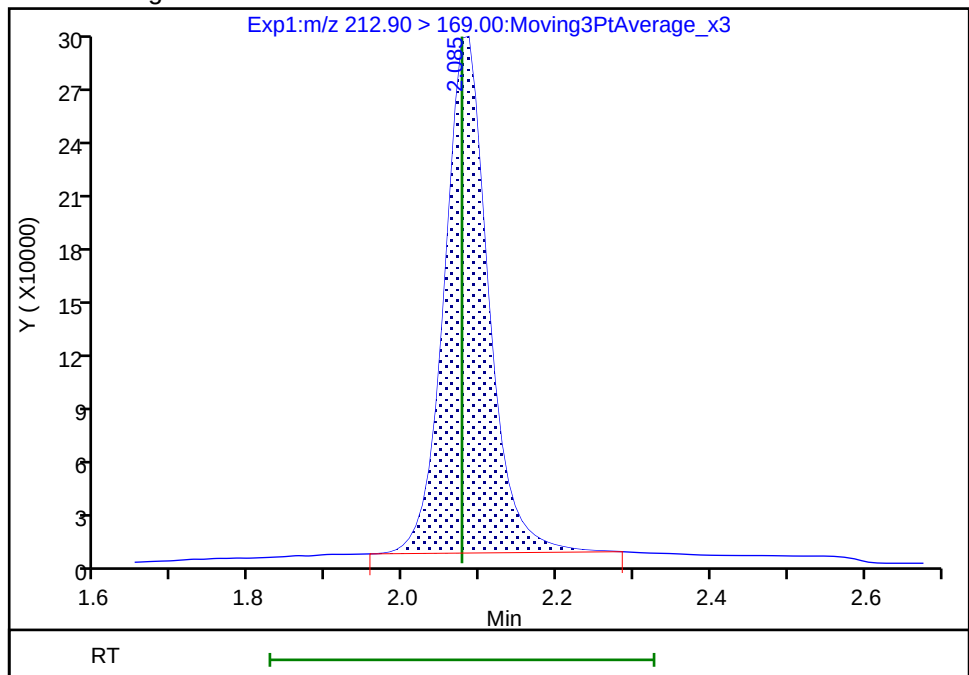
RT: 2.09
Area: 1168803
Amount: 0.489521
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1137760
Amount: 0.522928
Amount Units: ng/ml

Manual Integration Results



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Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

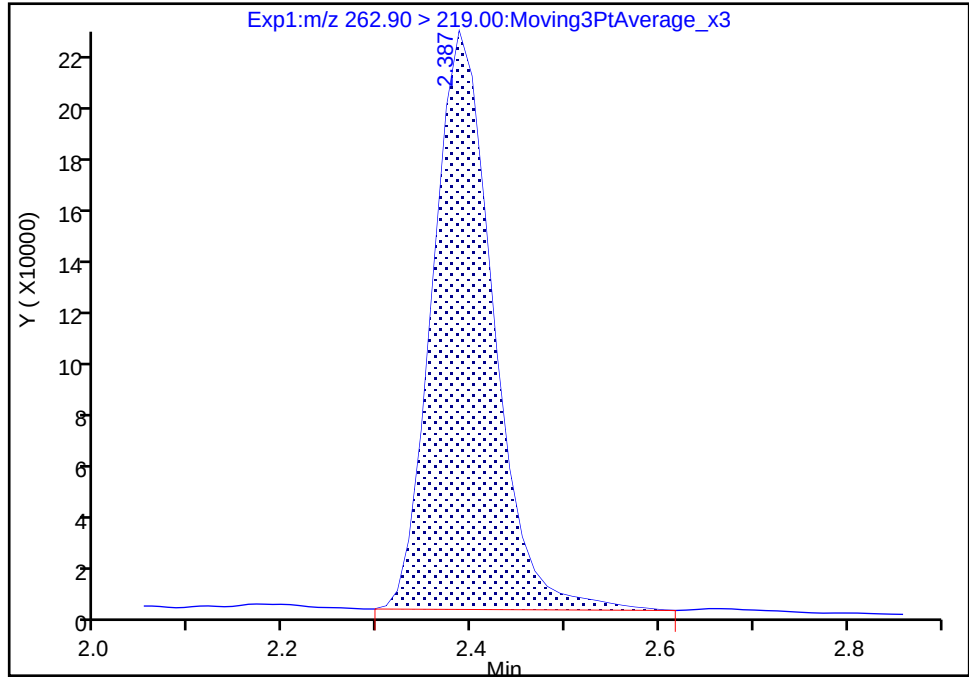
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

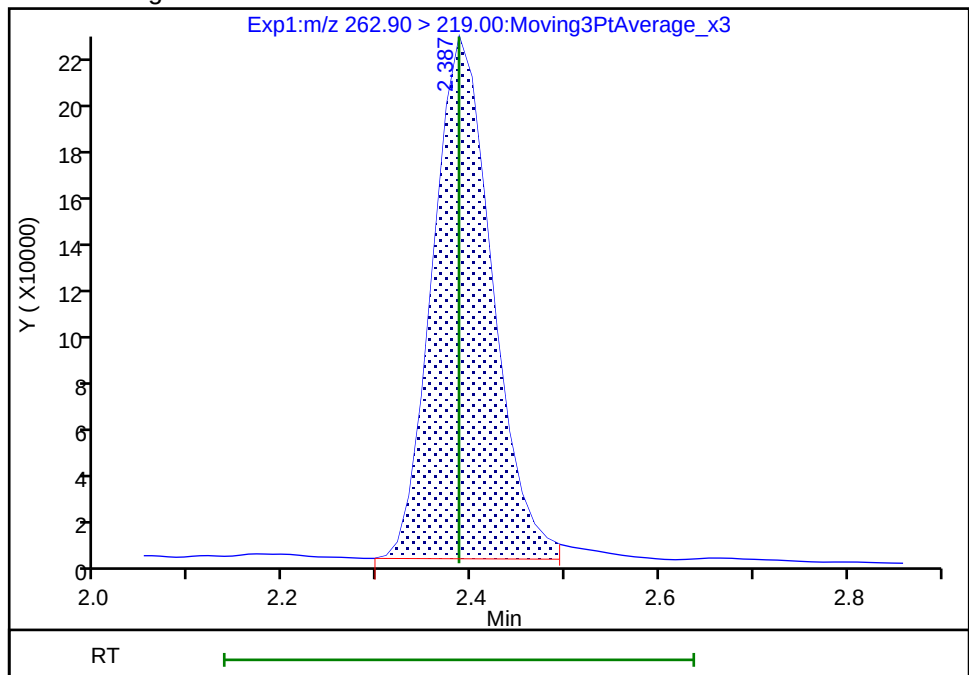
RT: 2.39
Area: 946379
Amount: 0.487855
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 929016
Amount: 0.519176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

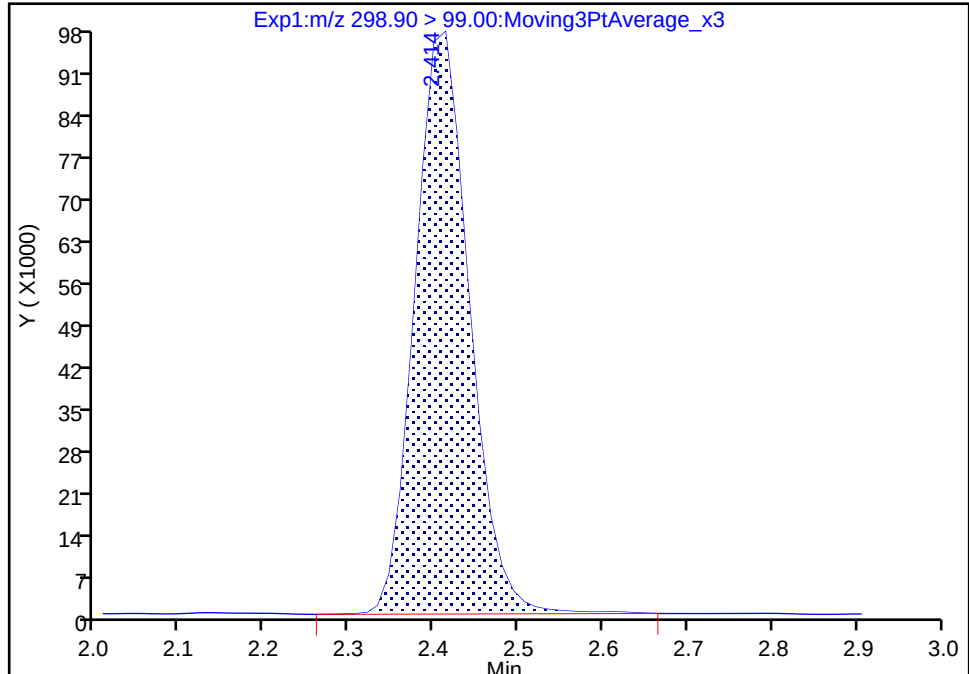
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

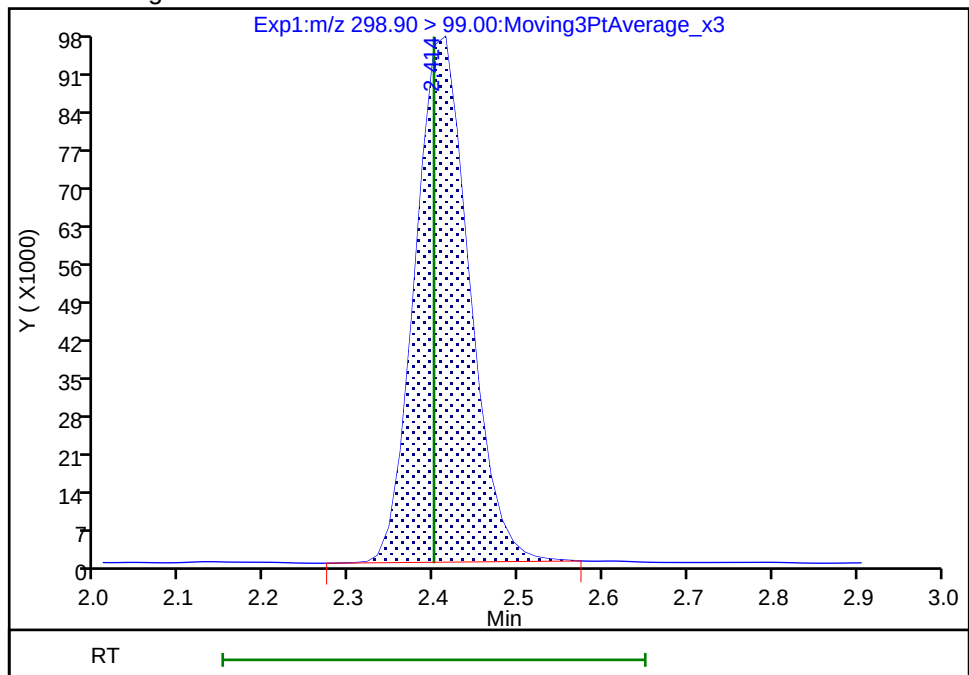
RT: 2.41
Area: 434508
Amount: 0.422187
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 430748
Amount: 0.448102
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

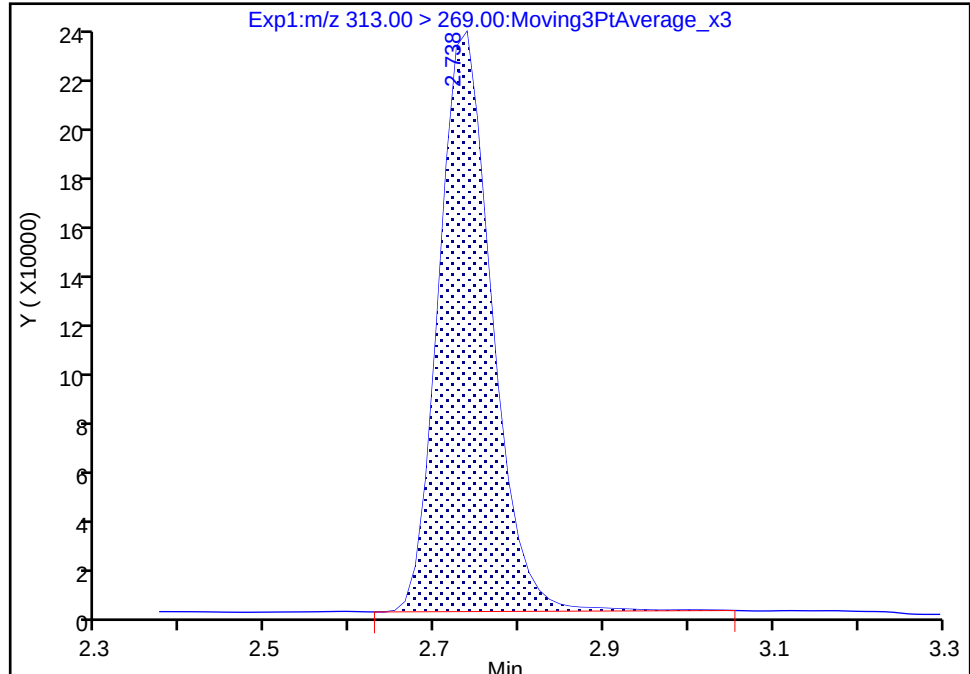
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

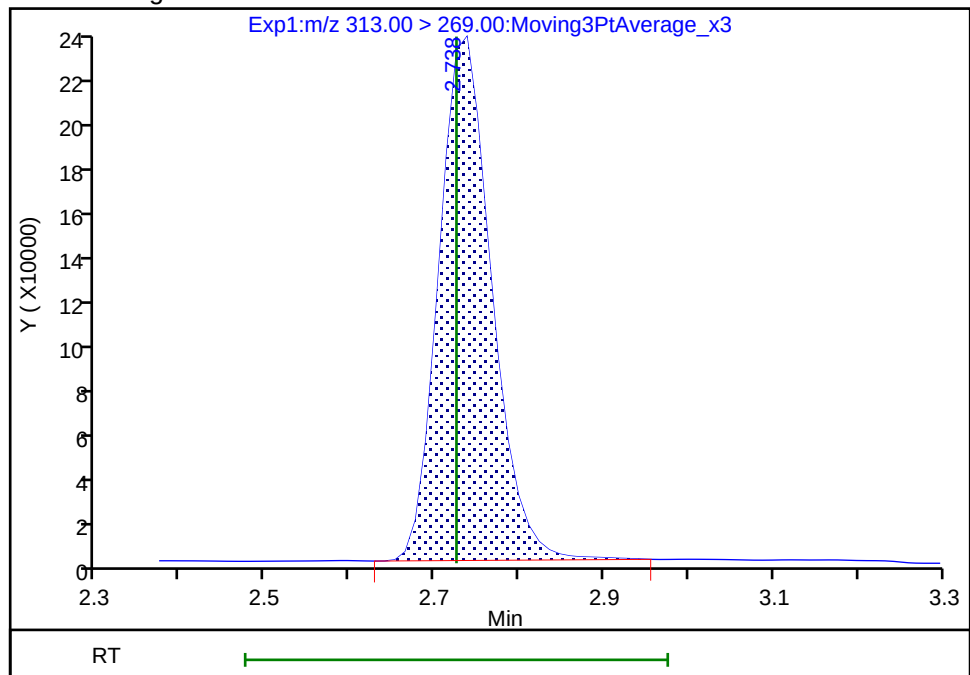
RT: 2.74
Area: 996443
Amount: 0.493667
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 992048
Amount: 0.522700
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:49
Audit Action: Manually Integrated

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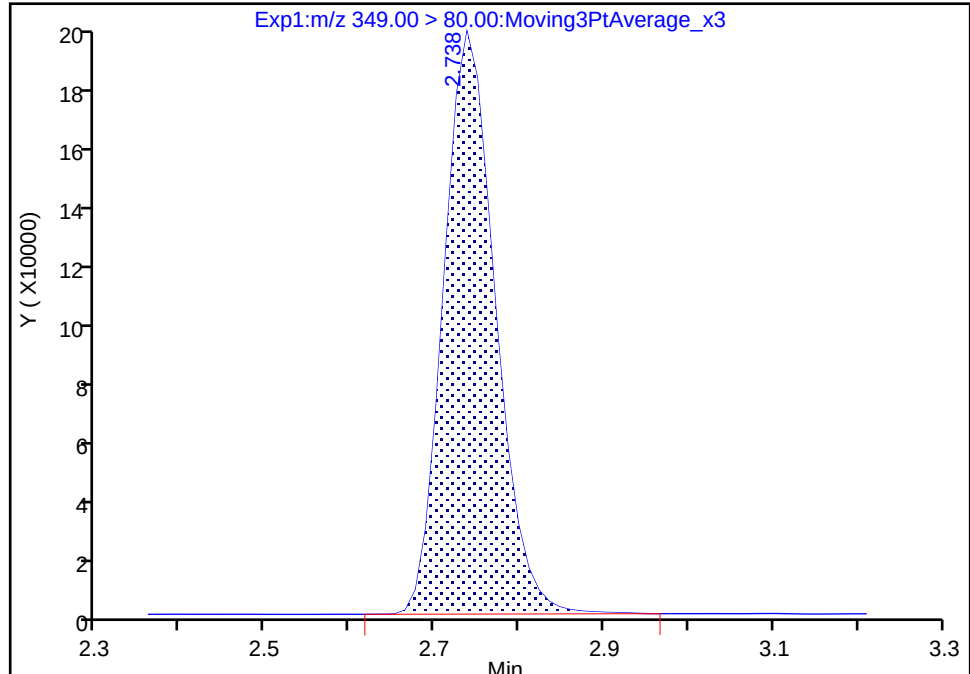
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

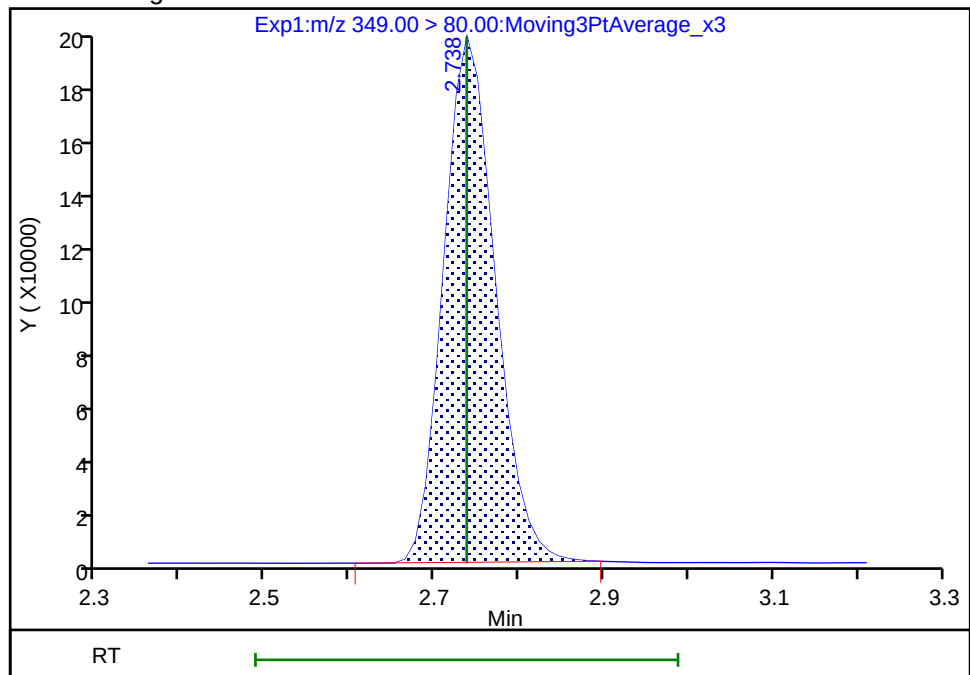
RT: 2.74
Area: 843222
Amount: 0.480975
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 837304
Amount: 0.502827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:54
Audit Action: Manually Integrated

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Eurofins Burlington

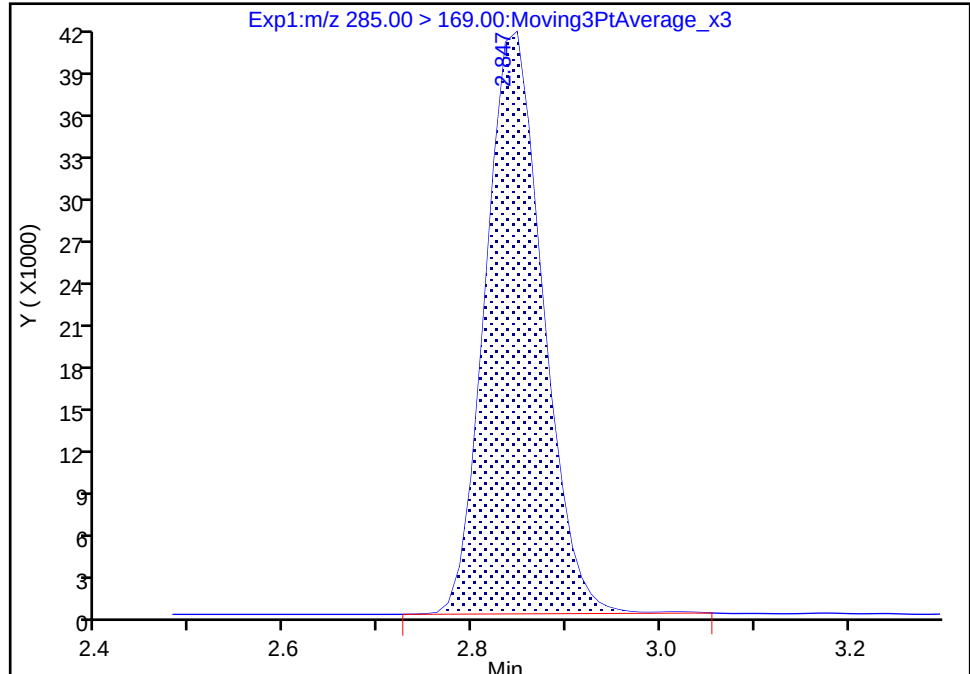
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

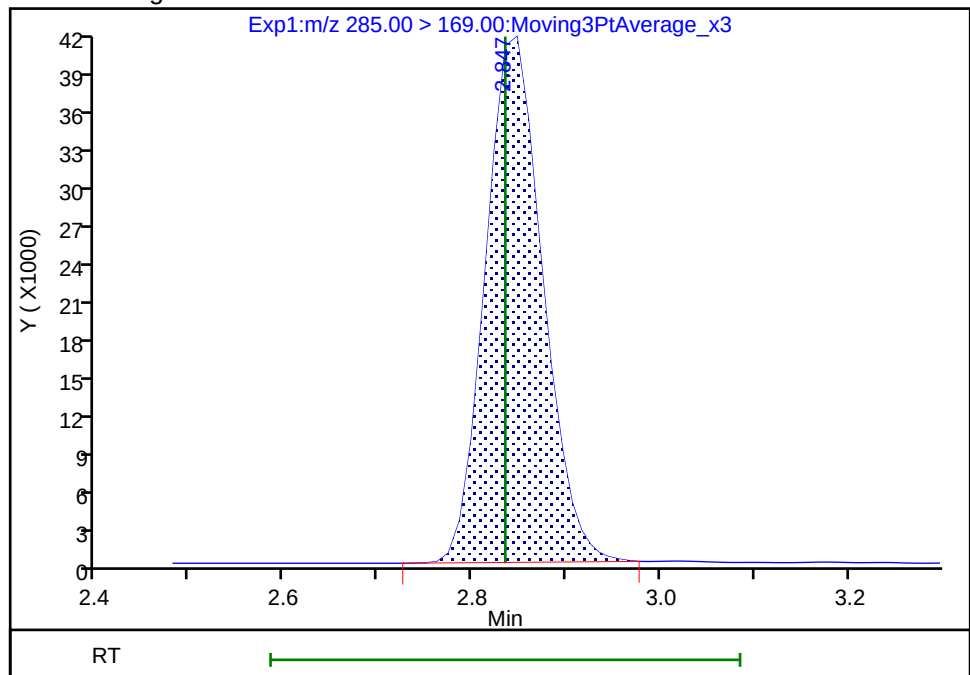
RT: 2.85
Area: 175711
Amount: 0.510805
Amount Units: ng/ml

Processing Integration Results



RT: 2.85
Area: 174879
Amount: 0.546316
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

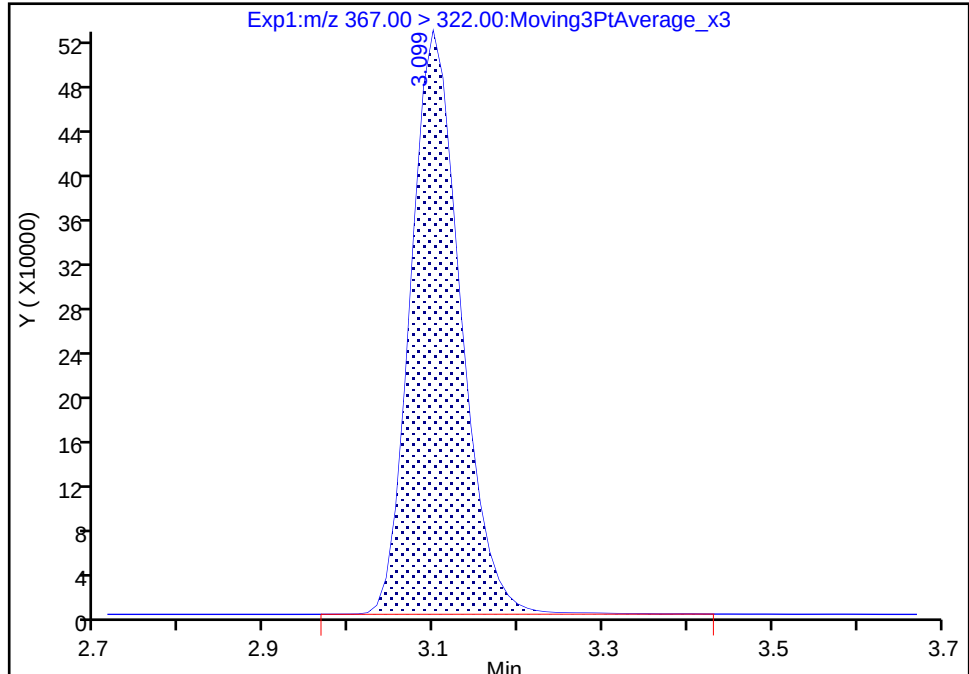
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d		
Injection Date:	18-Nov-2022 14:46:15	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	7

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

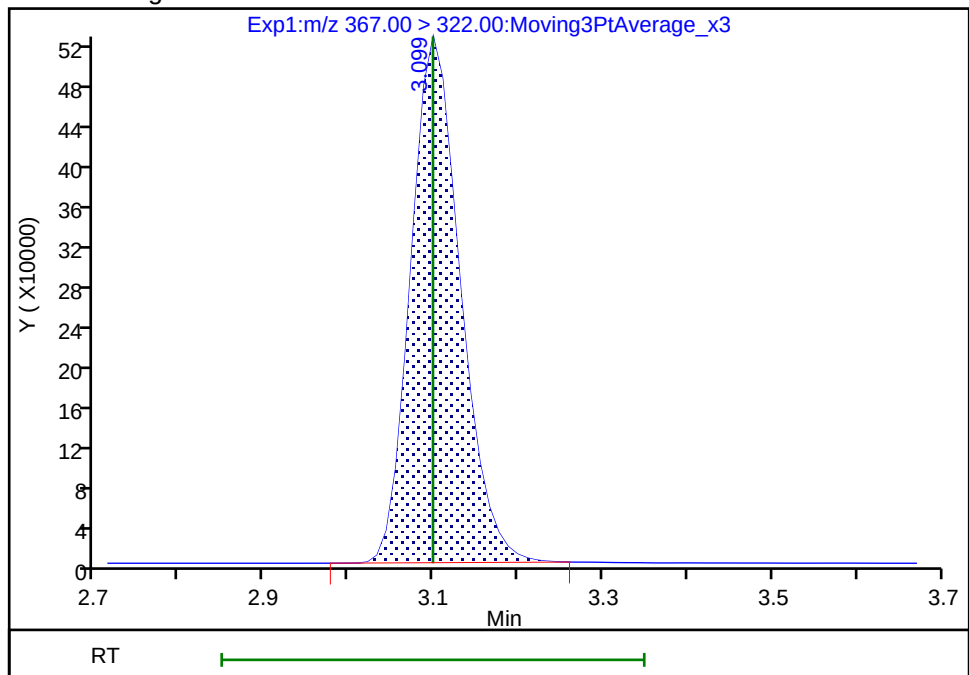
RT: 3.10
Area: 2162805
Amount: 1.248507
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 2150118
Amount: 1.220333
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

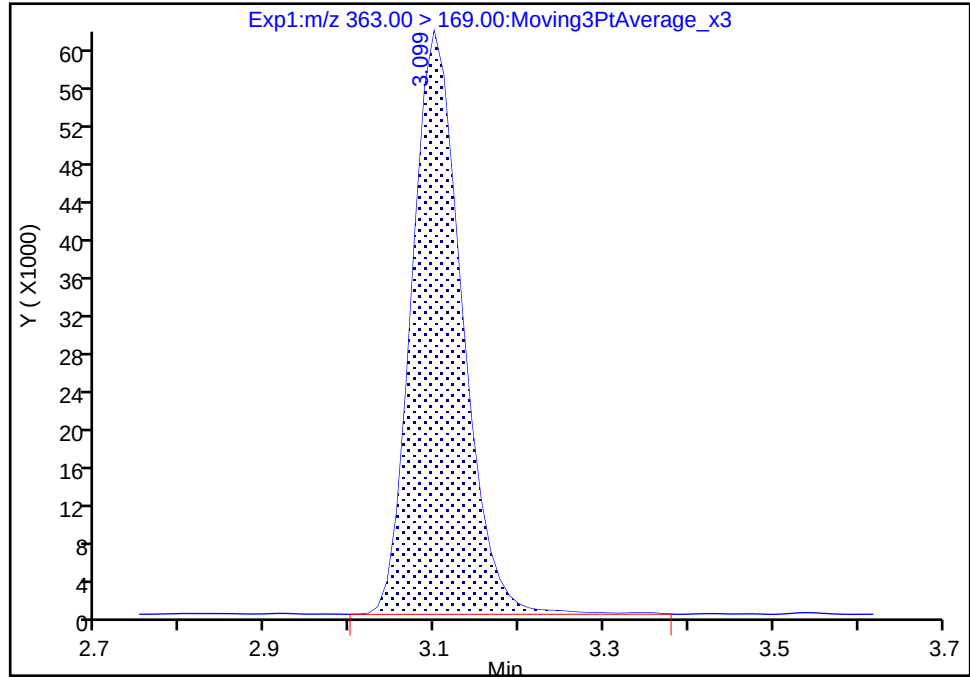
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

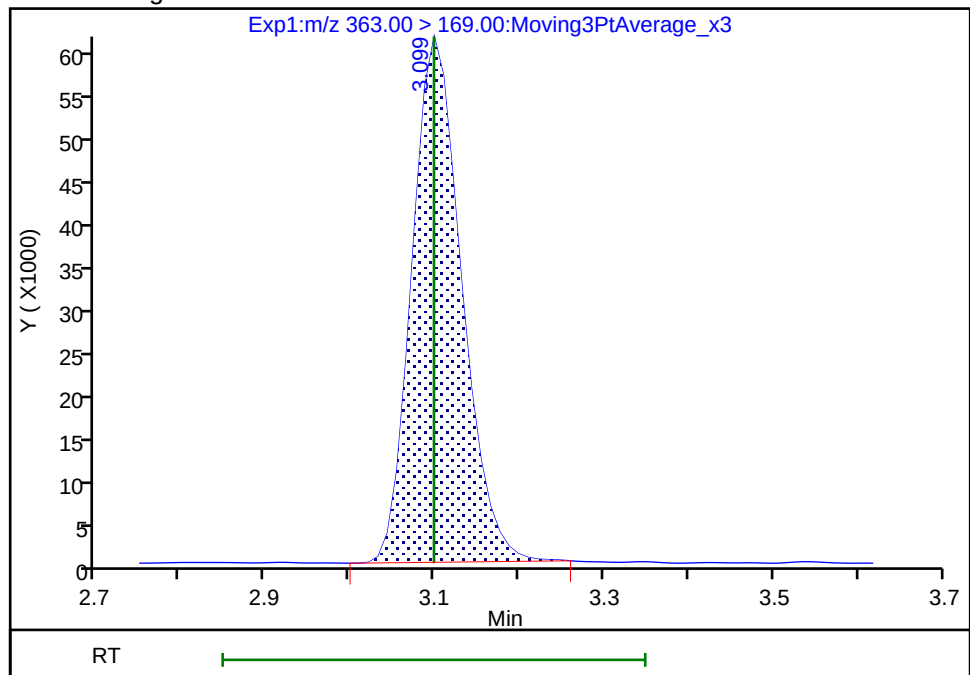
RT: 3.10
Area: 254758
Amount: 0.495820
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 251672
Amount: 0.535731
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:22
Audit Action: Manually Integrated

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Eurofins Burlington

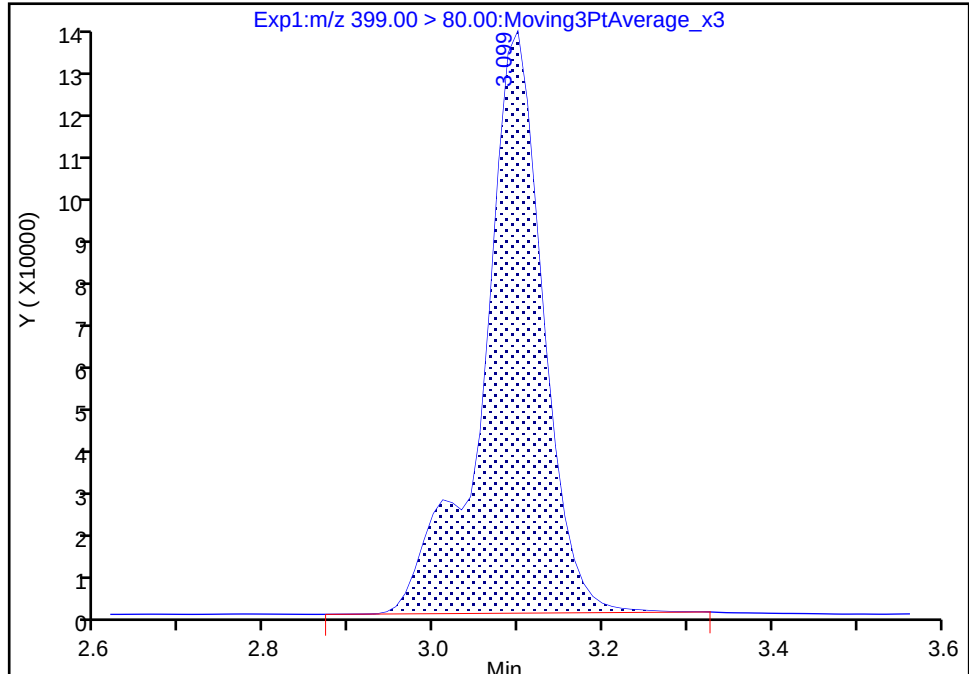
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

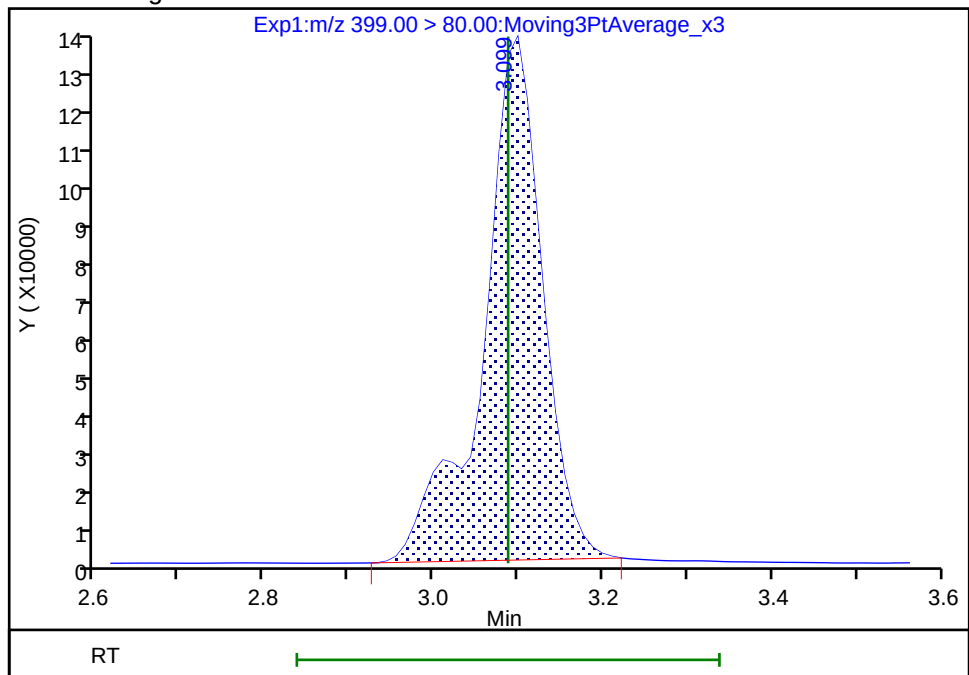
RT: 3.10
Area: 690915
Amount: 0.467335
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 680406
Amount: 0.483465
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

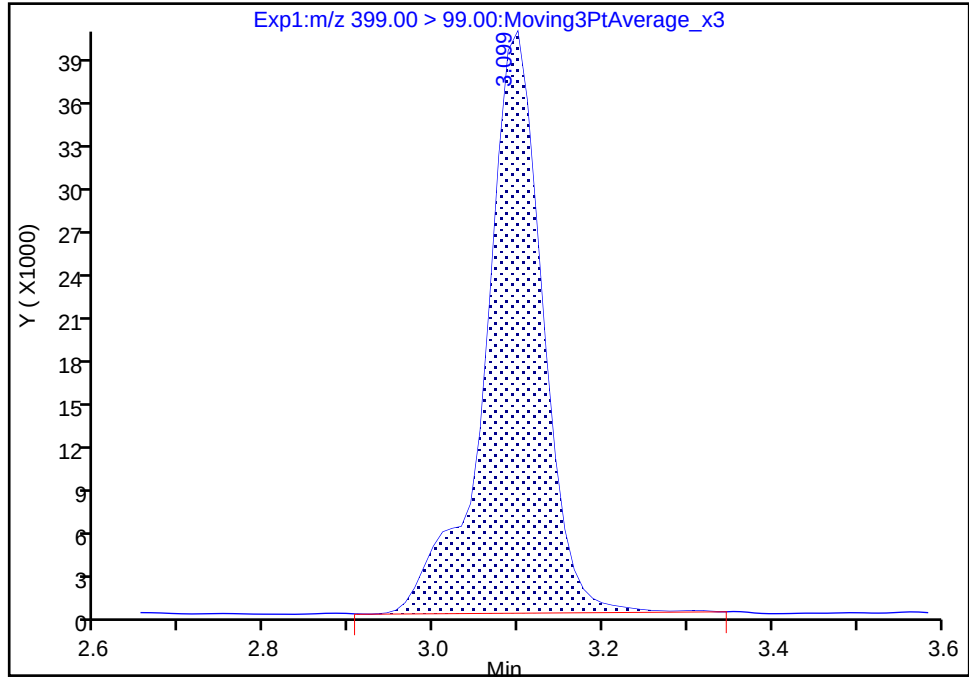
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

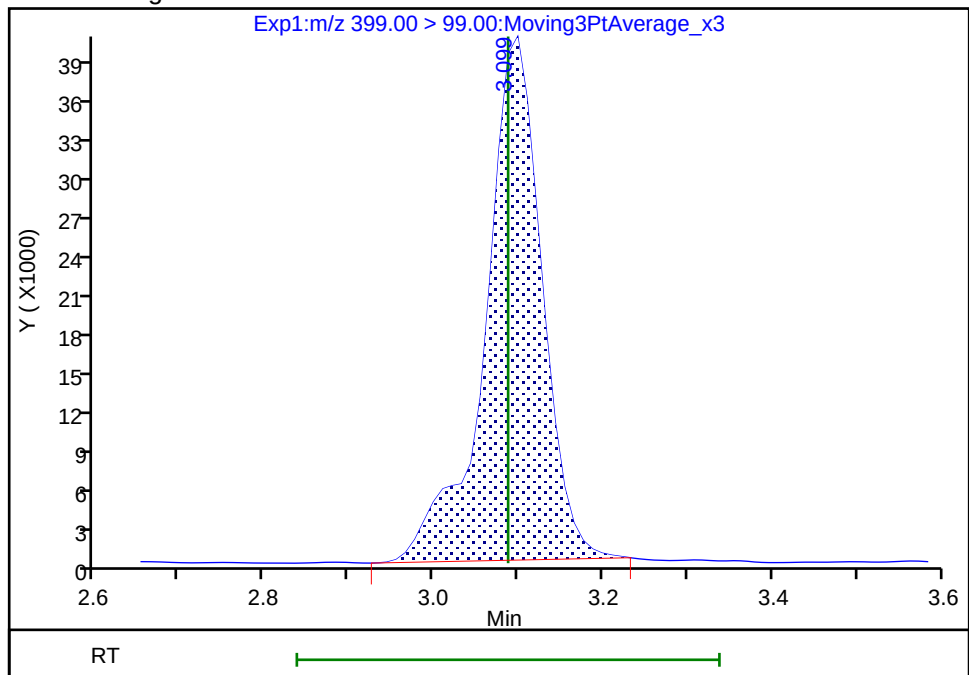
RT: 3.10
Area: 188640
Amount: 0.467335
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 185398
Amount: 0.483465
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

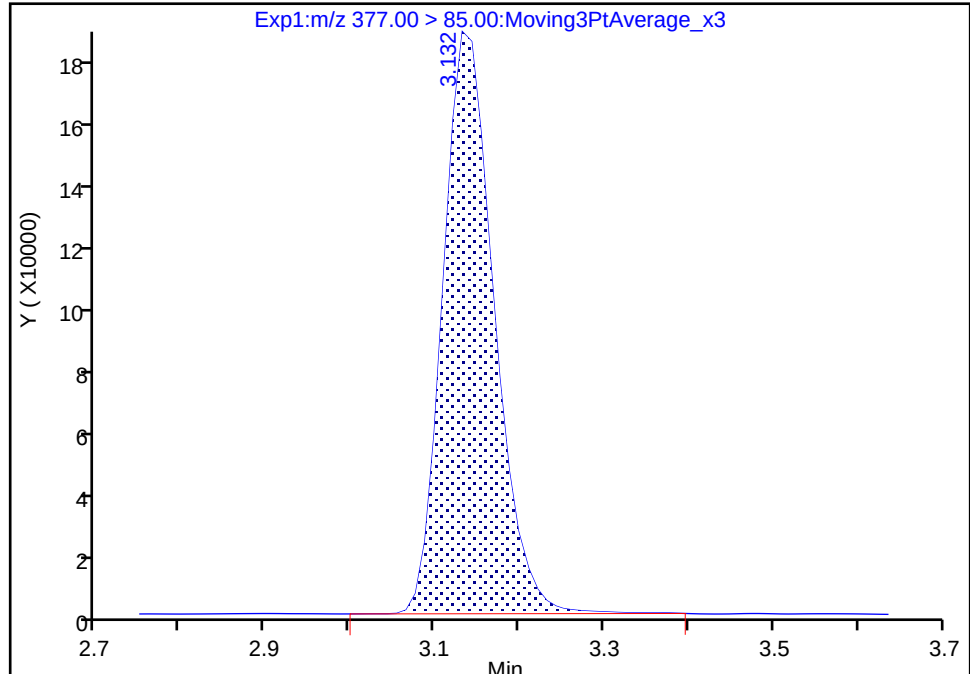
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d		
Injection Date:	18-Nov-2022 14:46:15	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	7

77 DONA, CAS: 919005-14-4

Signal: 2

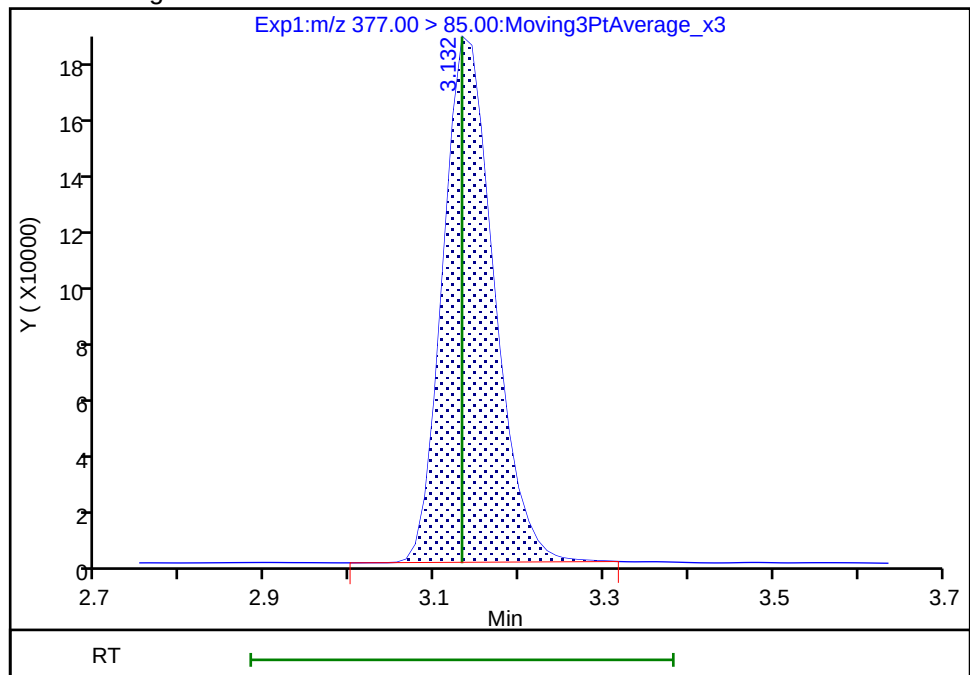
RT: 3.13
Area: 764336
Amount: 0.467942
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 760123
Amount: 0.505022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

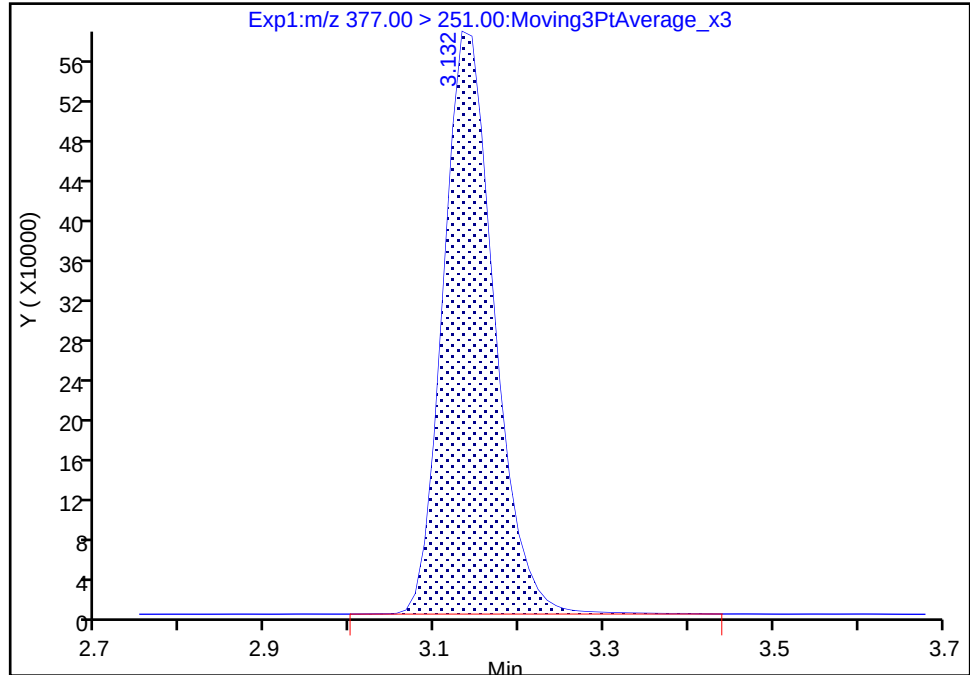
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

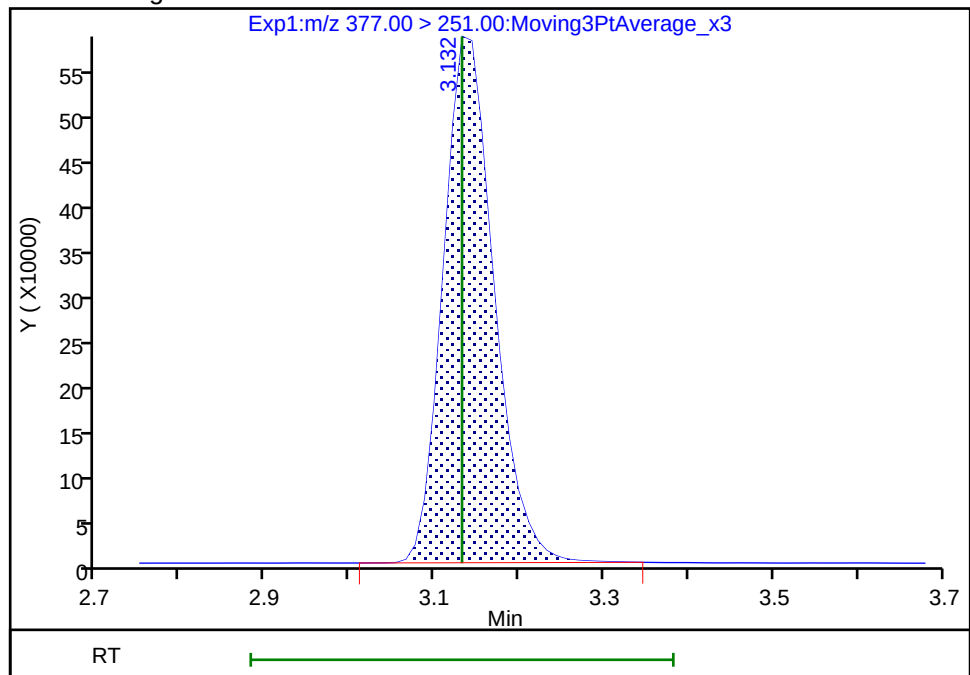
RT: 3.13
Area: 2417717
Amount: 0.467942
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 2408962
Amount: 0.505022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

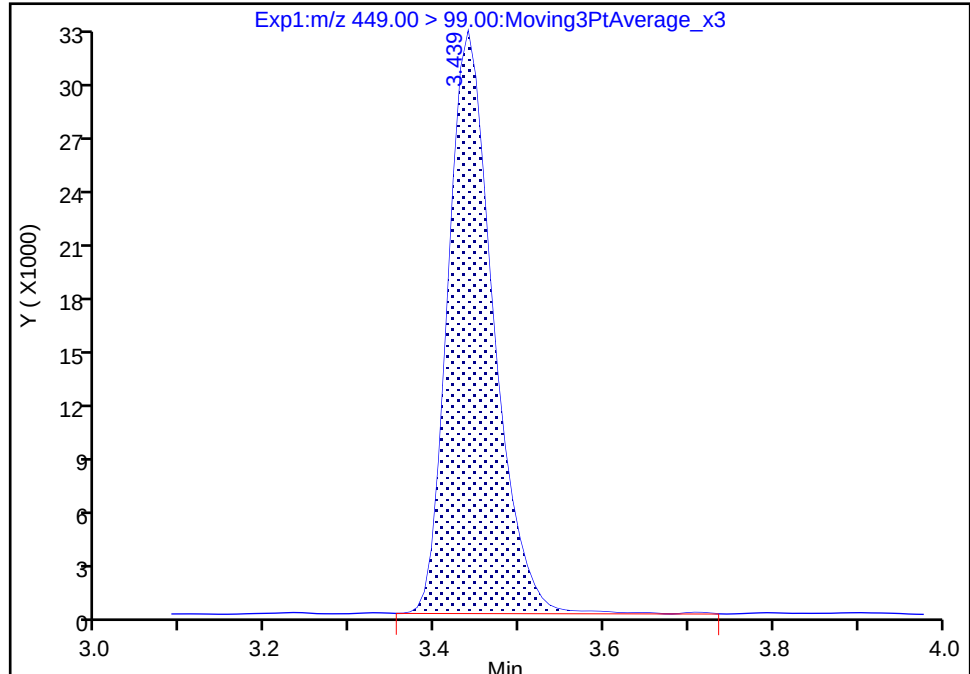
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

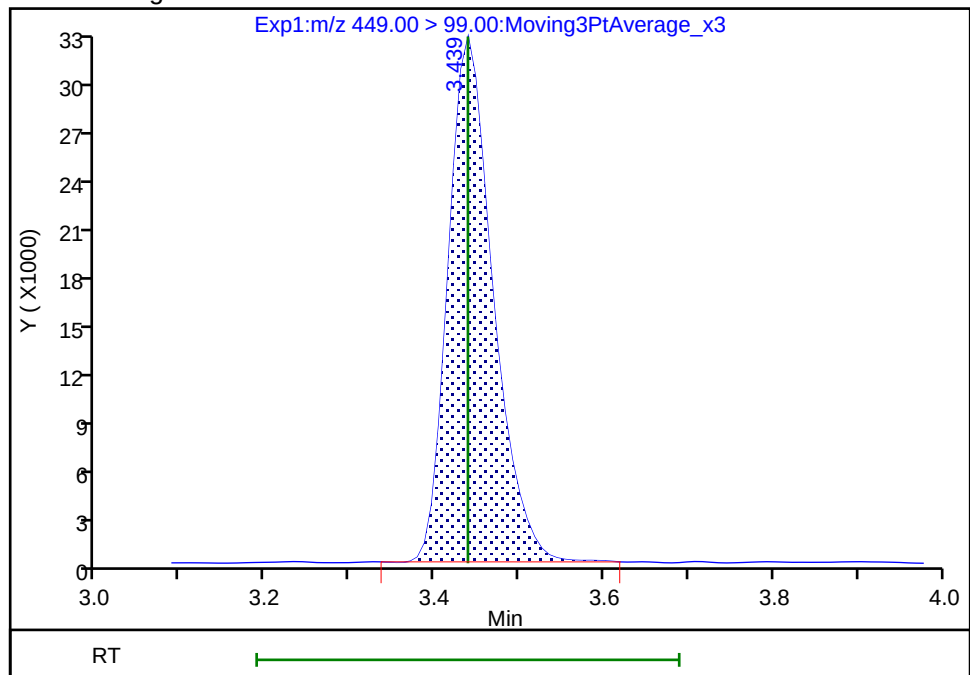
RT: 3.44
Area: 121485
Amount: 0.478403
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 120467
Amount: 0.509588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d

Injection Date: 18-Nov-2022 14:46:15

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)

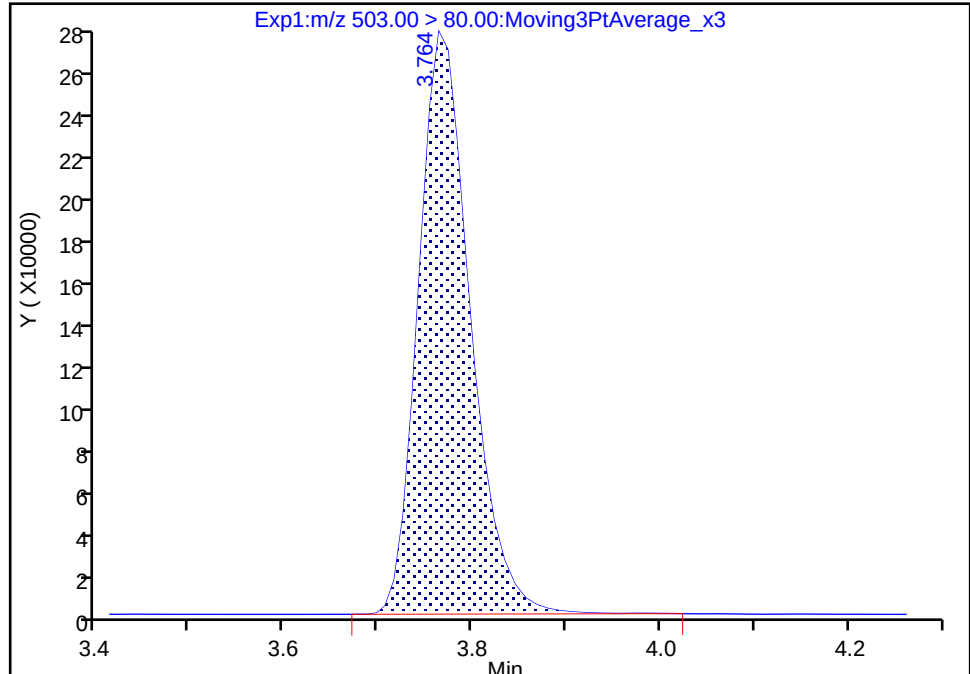
Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

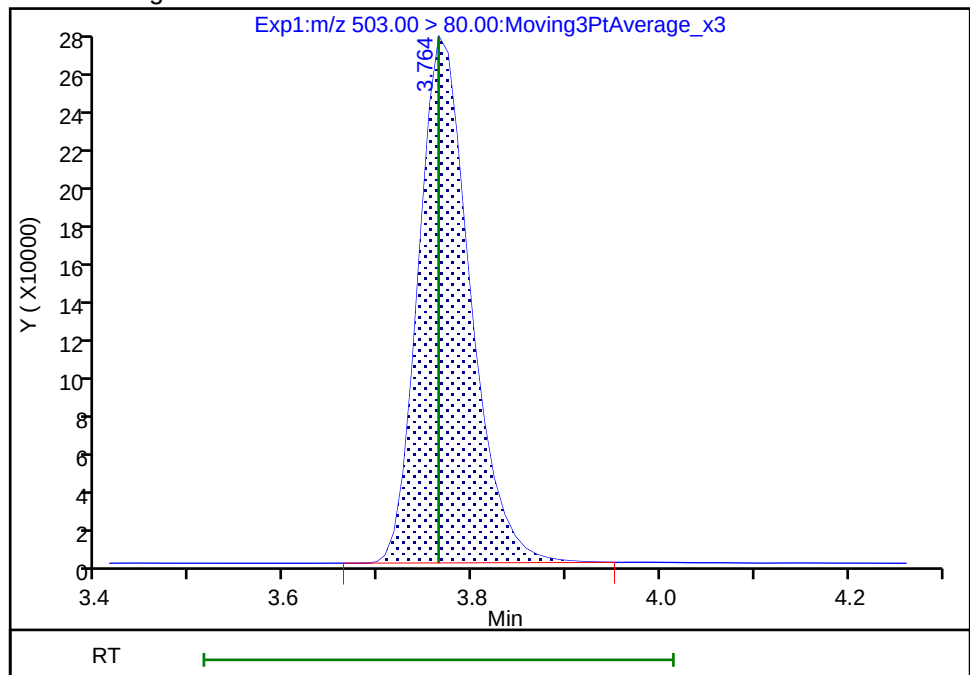
RT: 3.76
Area: 1037255
Amount: 1.197303
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1035061
Amount: 1.178802
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

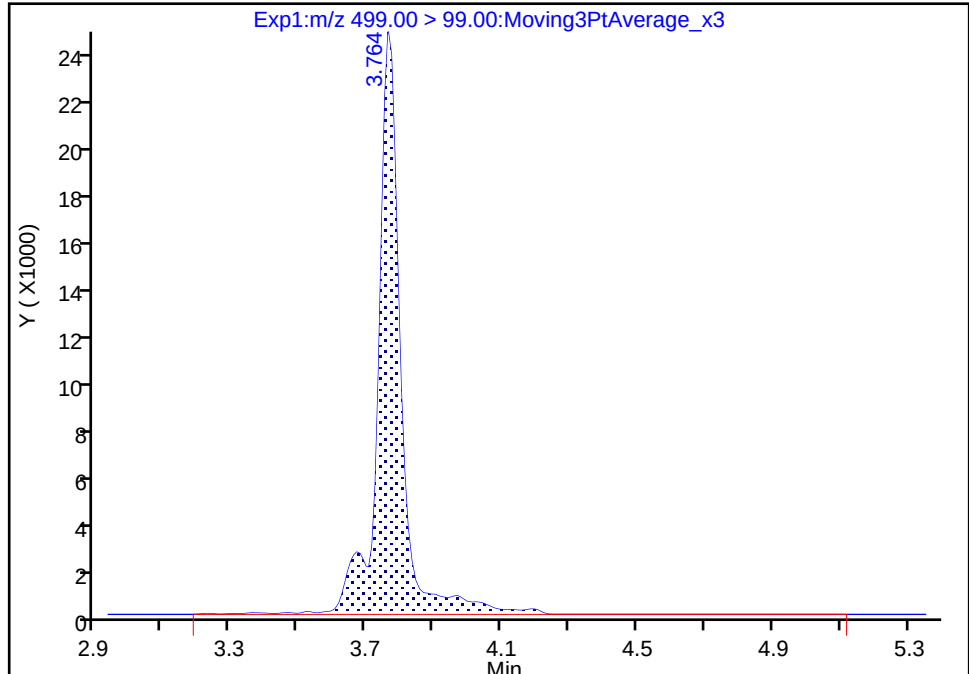
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

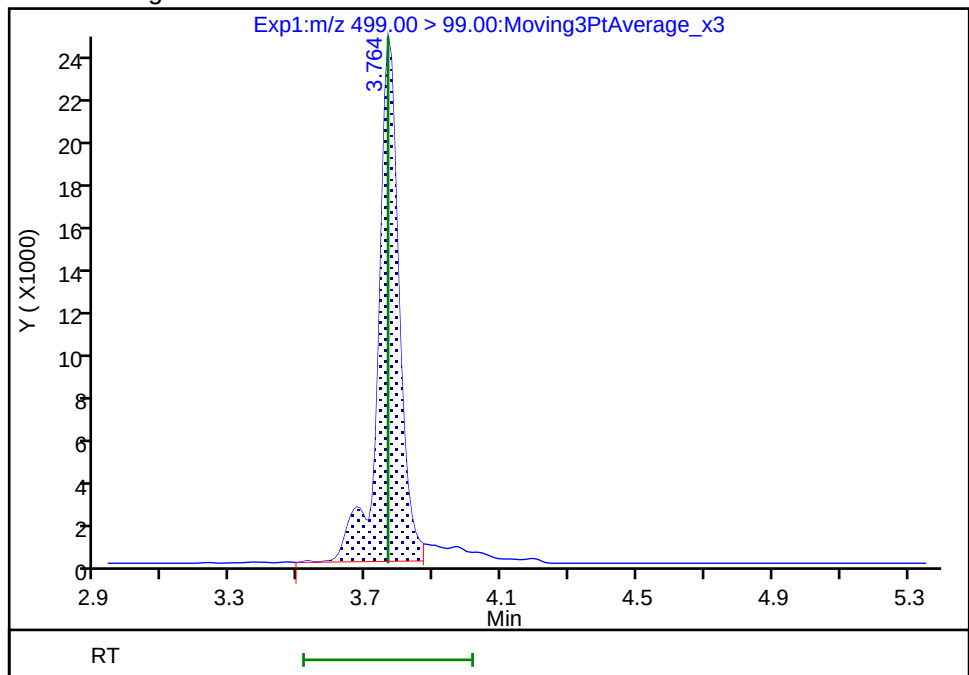
RT: 3.76
Area: 115041
Amount: 0.450182
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 103252
Amount: 0.447970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

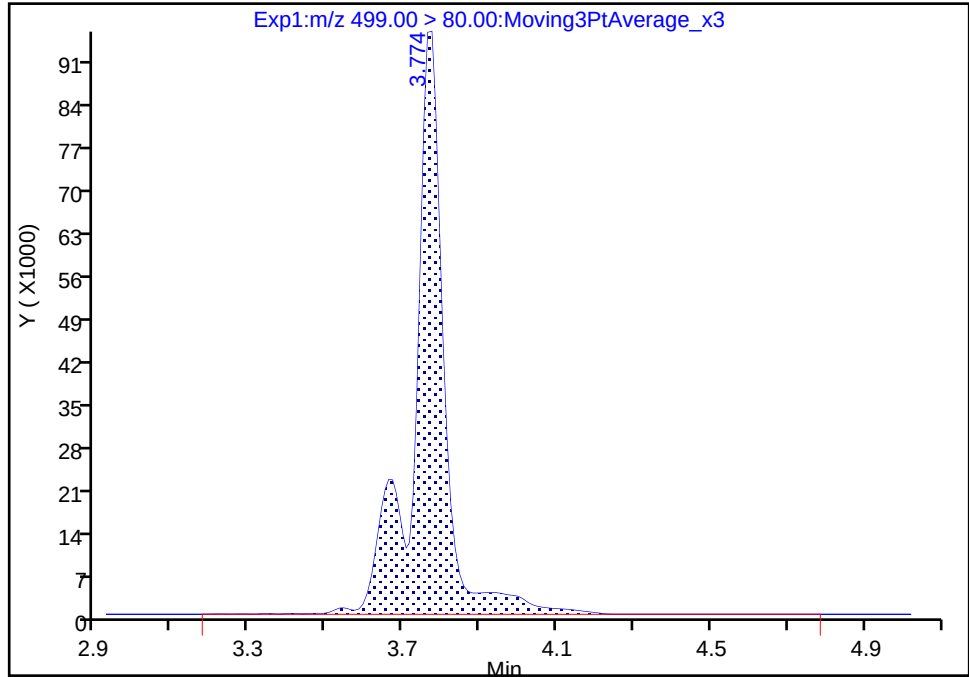
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

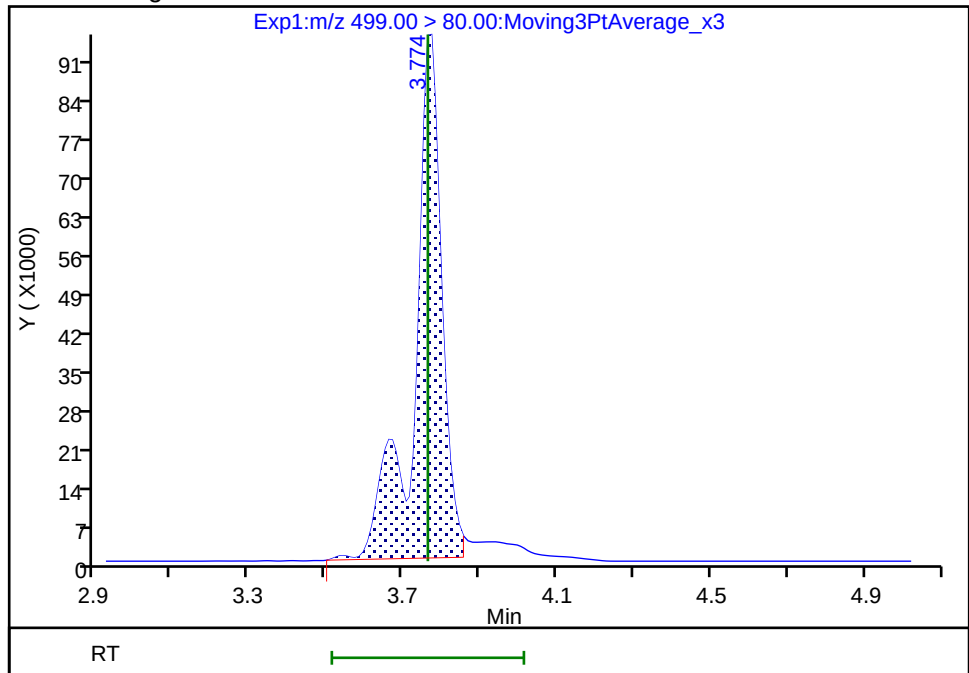
RT: 3.77
Area: 524529
Amount: 0.450182
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 471879
Amount: 0.447970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

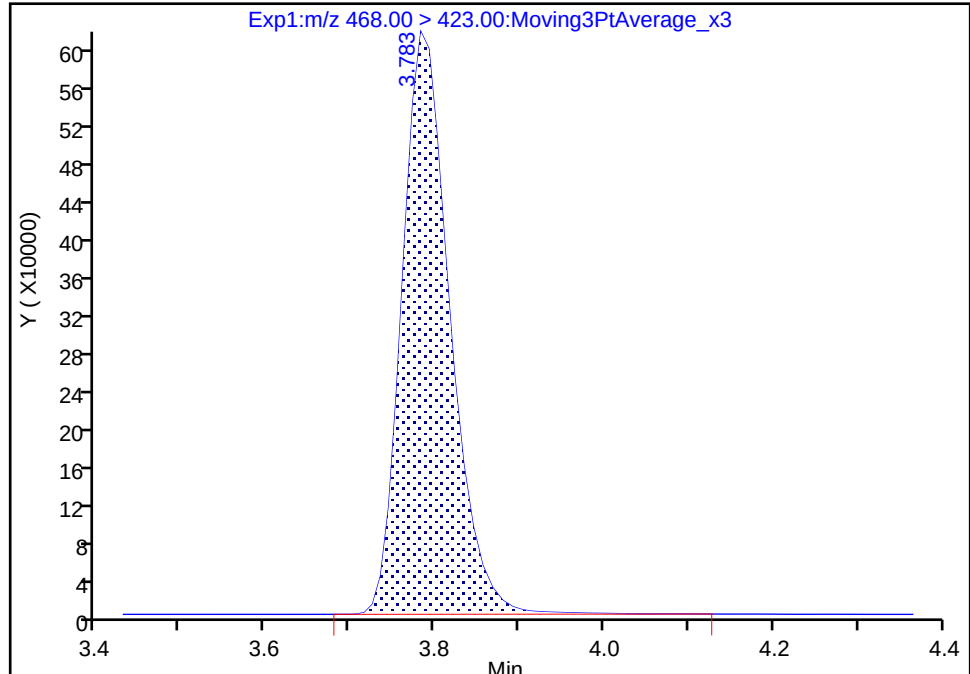
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d		
Injection Date:	18-Nov-2022 14:46:15	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	7

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

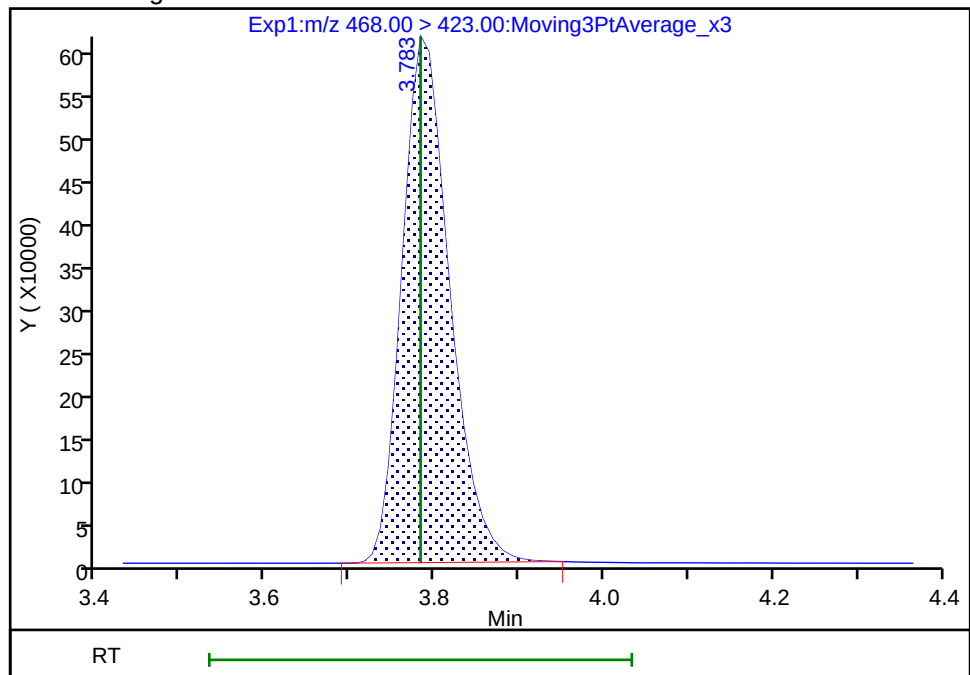
RT: 3.78
Area: 2398141
Amount: 1.248889
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2379680
Amount: 1.236174
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

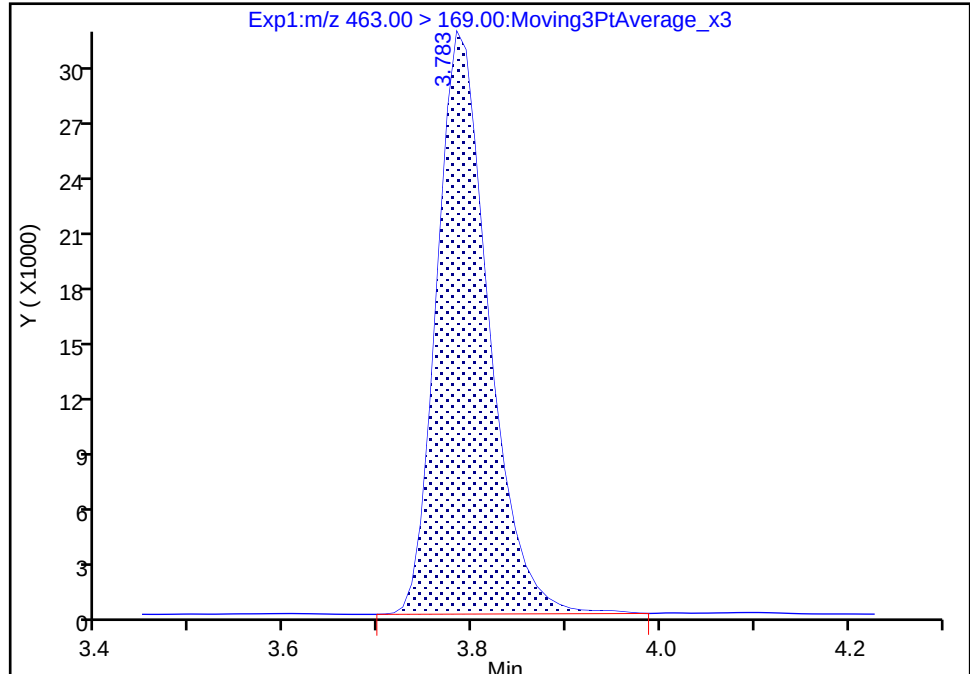
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

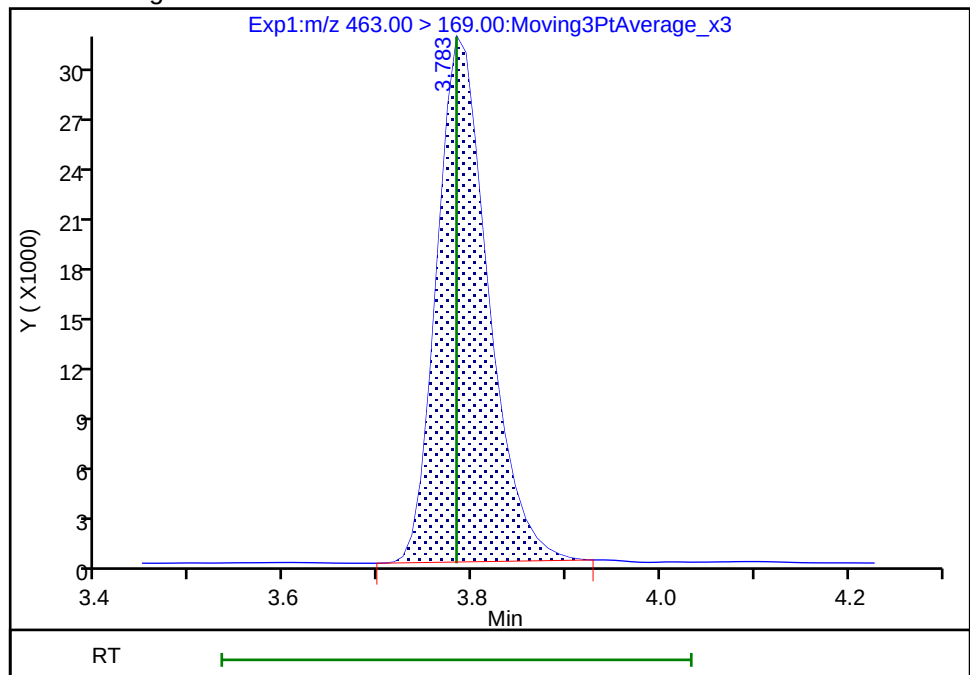
RT: 3.78
Area: 120127
Amount: 0.507644
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 118713
Amount: 0.531934
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

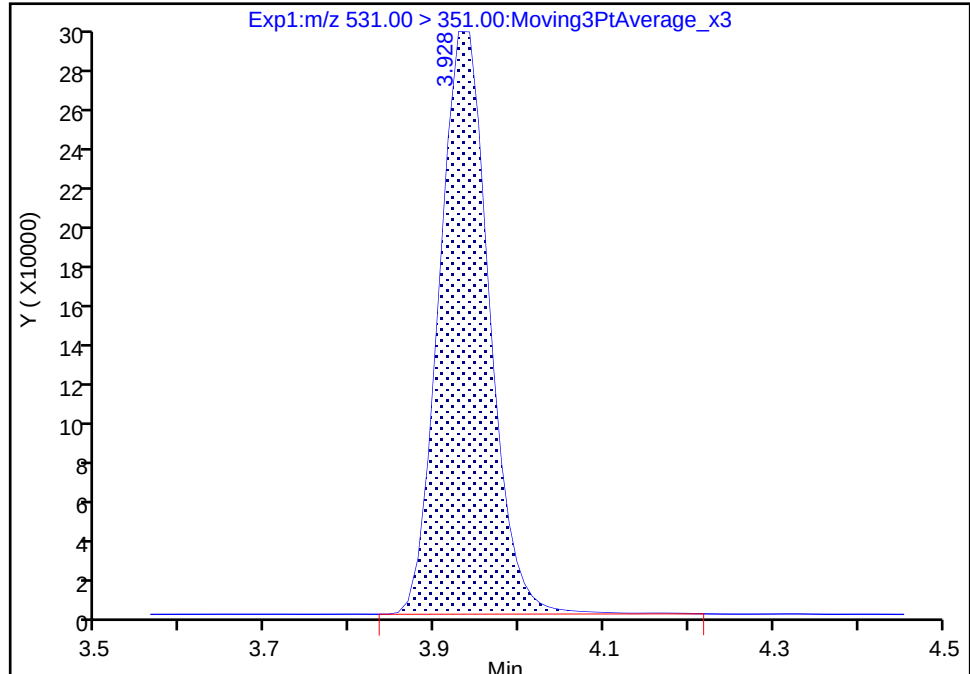
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

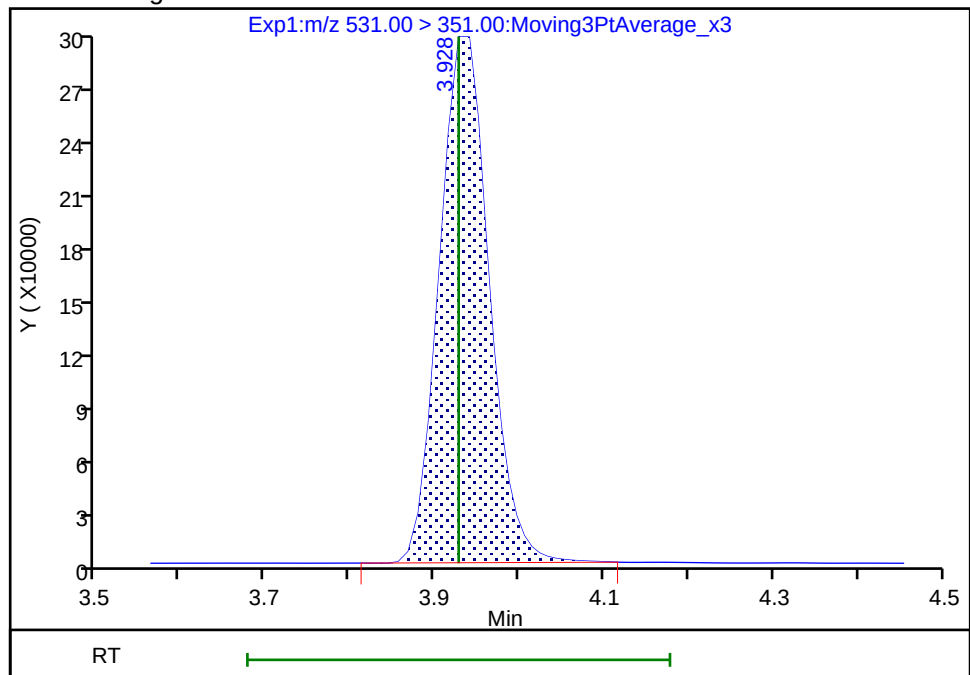
RT: 3.93
Area: 1196218
Amount: 0.468080
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 1190983
Amount: 0.492631
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

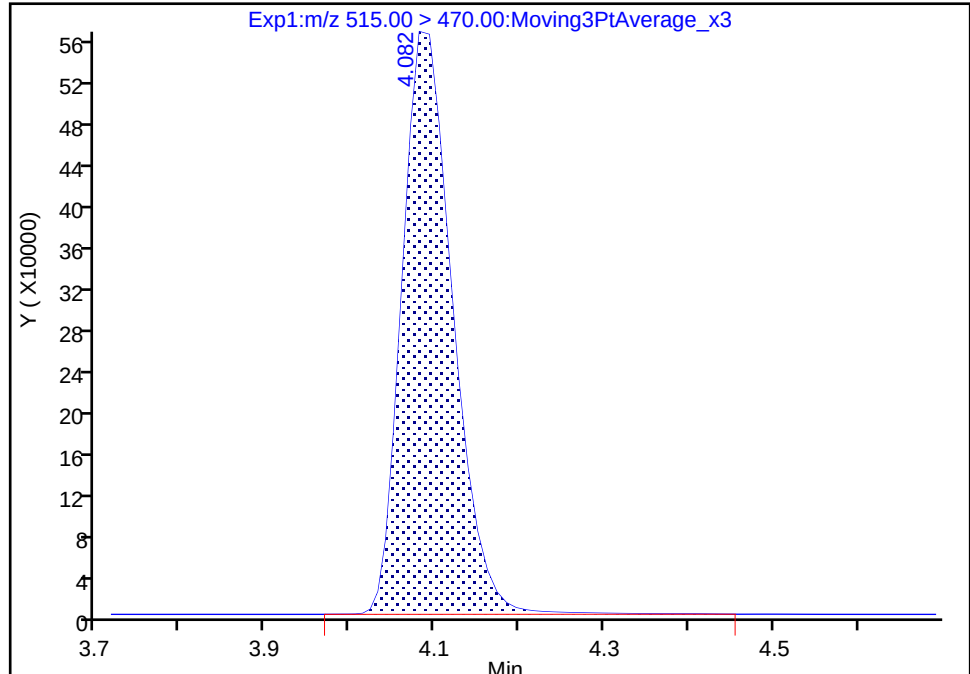
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

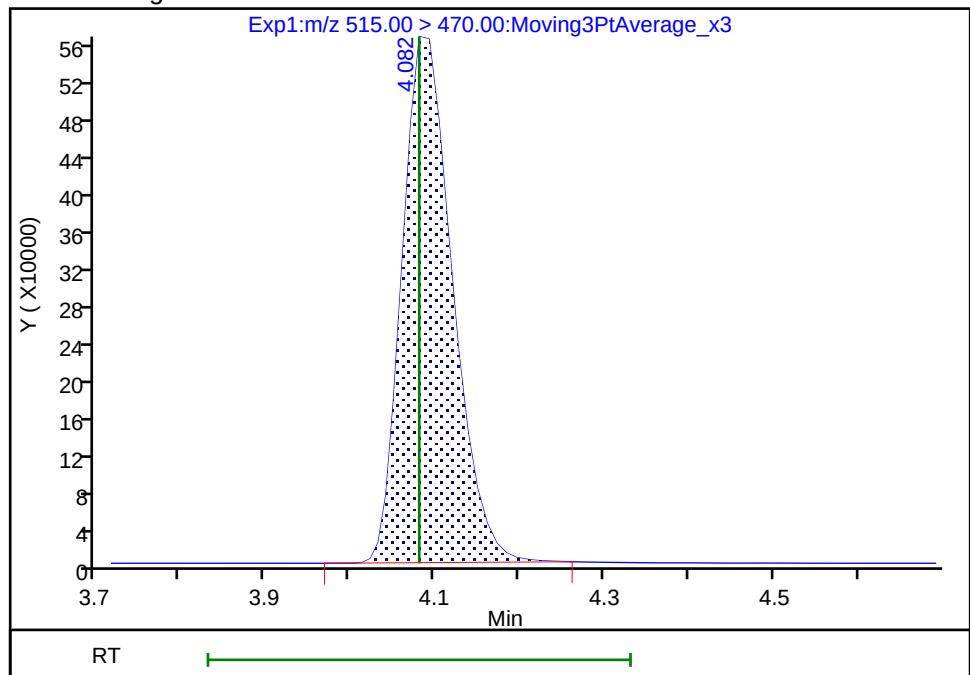
RT: 4.08
Area: 2353187
Amount: 1.223652
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2334094
Amount: 1.189856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

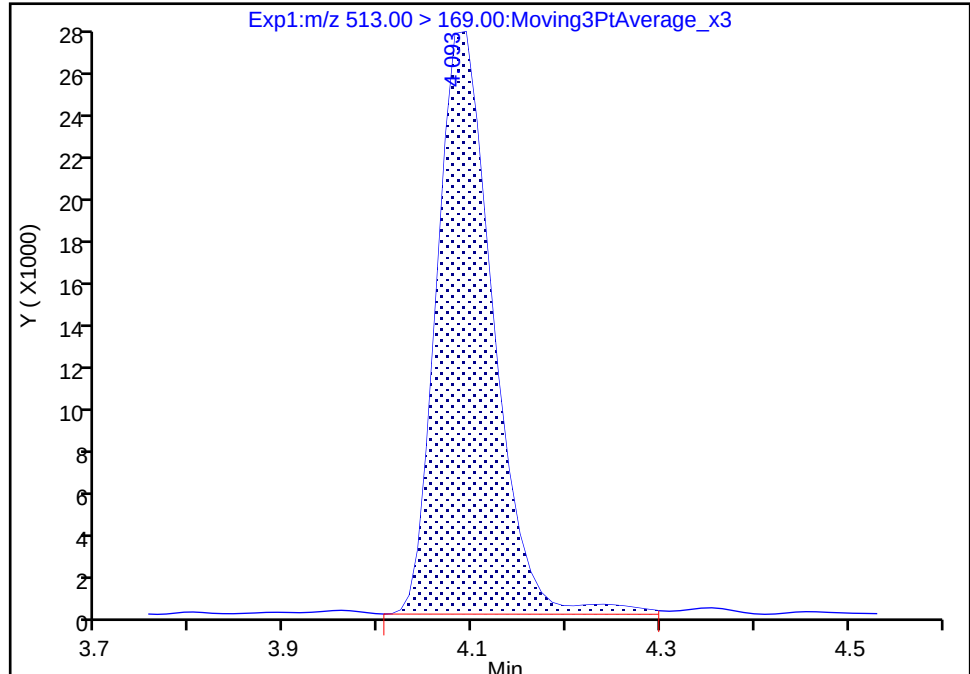
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

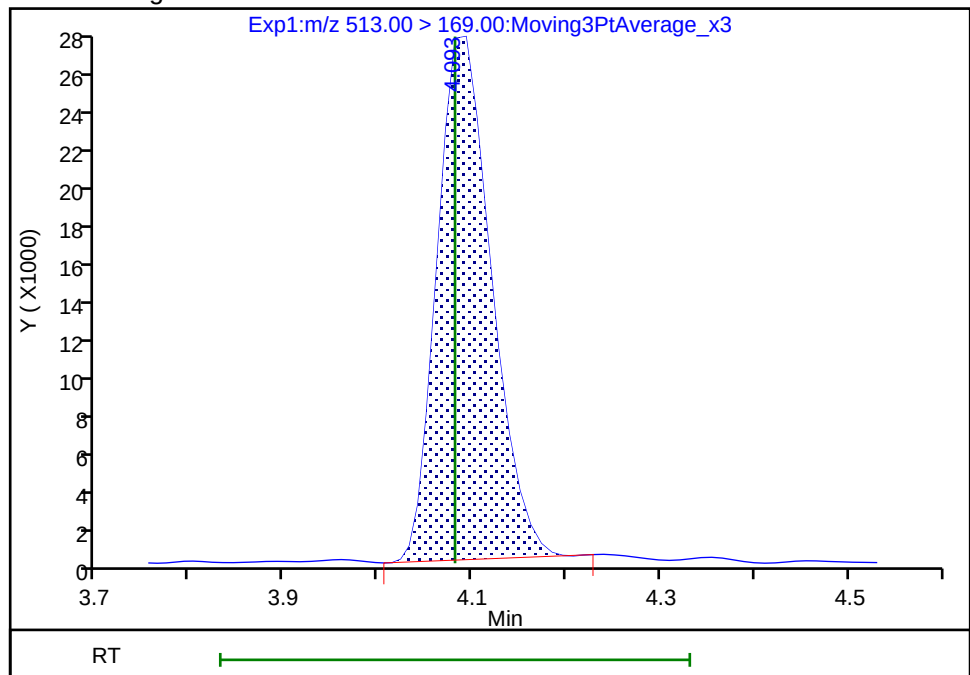
RT: 4.09
Area: 112536
Amount: 0.535825
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 108172
Amount: 0.585009
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

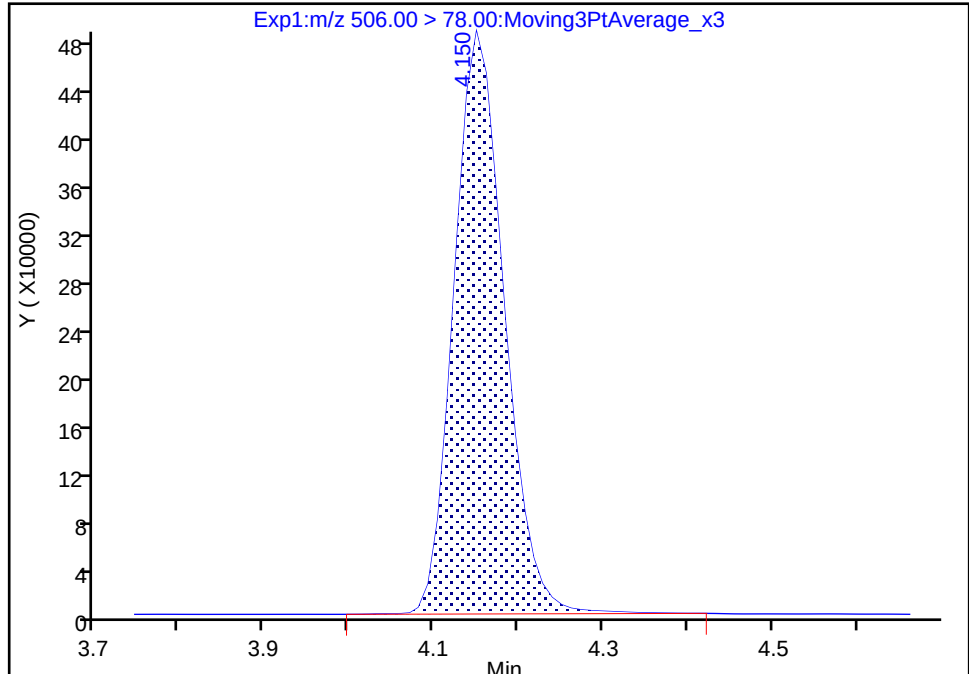
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d		
Injection Date:	18-Nov-2022 14:46:15	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	7

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

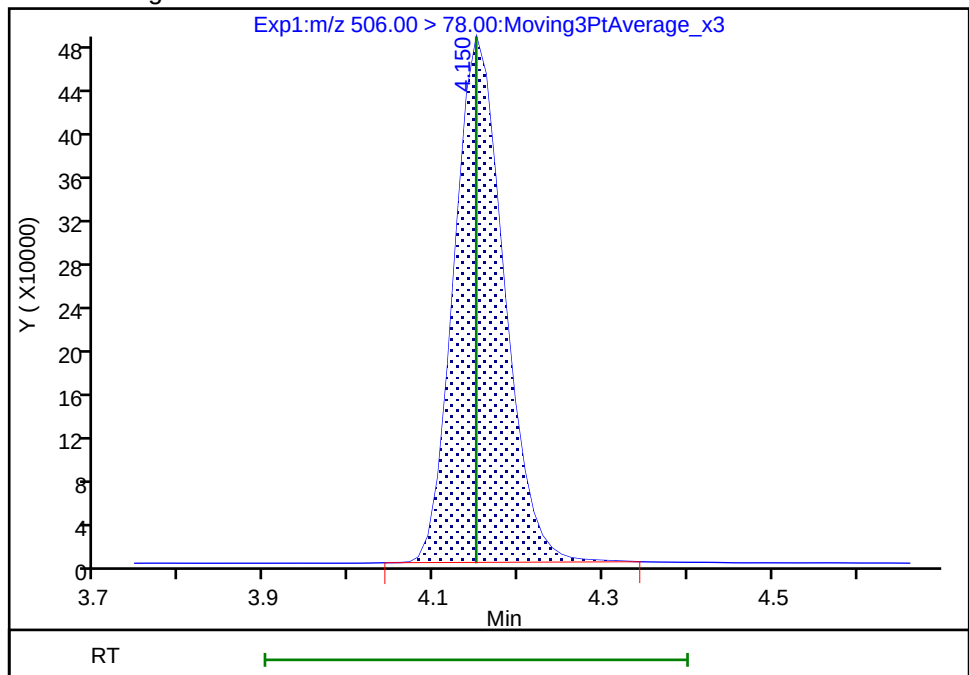
RT: 4.15
Area: 1977863
Amount: 1.249599
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1967036
Amount: 1.223096
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d

Injection Date: 18-Nov-2022 14:46:15

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)

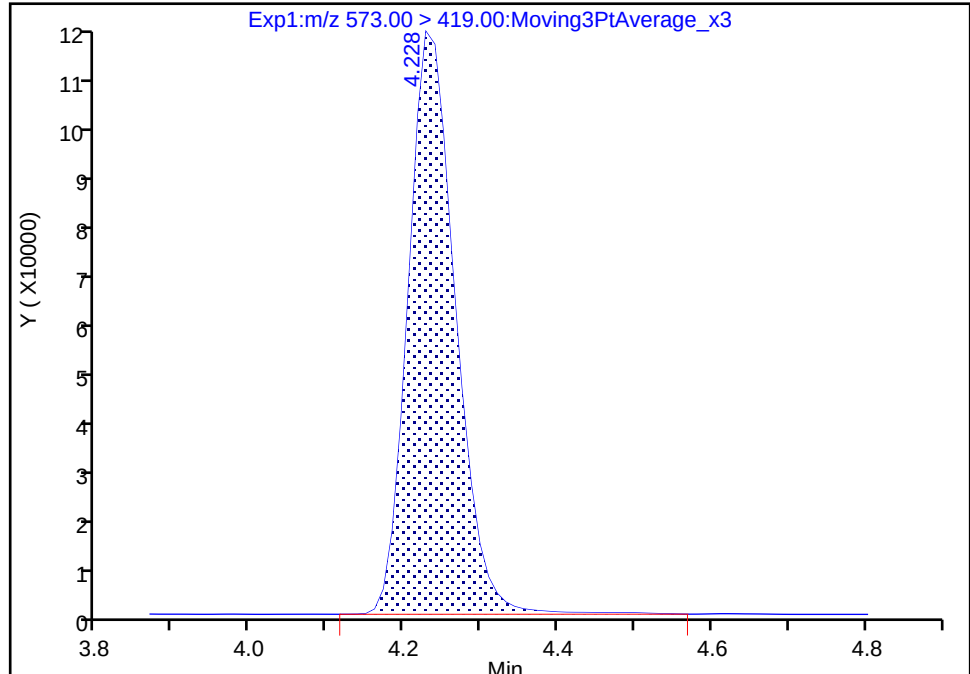
Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

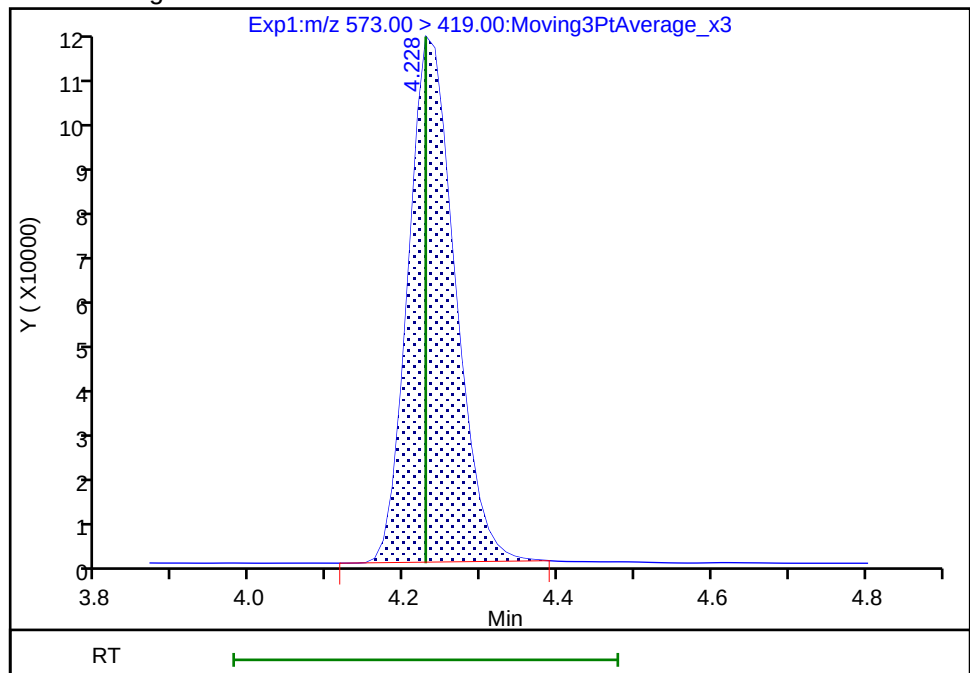
RT: 4.23
Area: 472648
Amount: 1.220892
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 466044
Amount: 1.166822
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

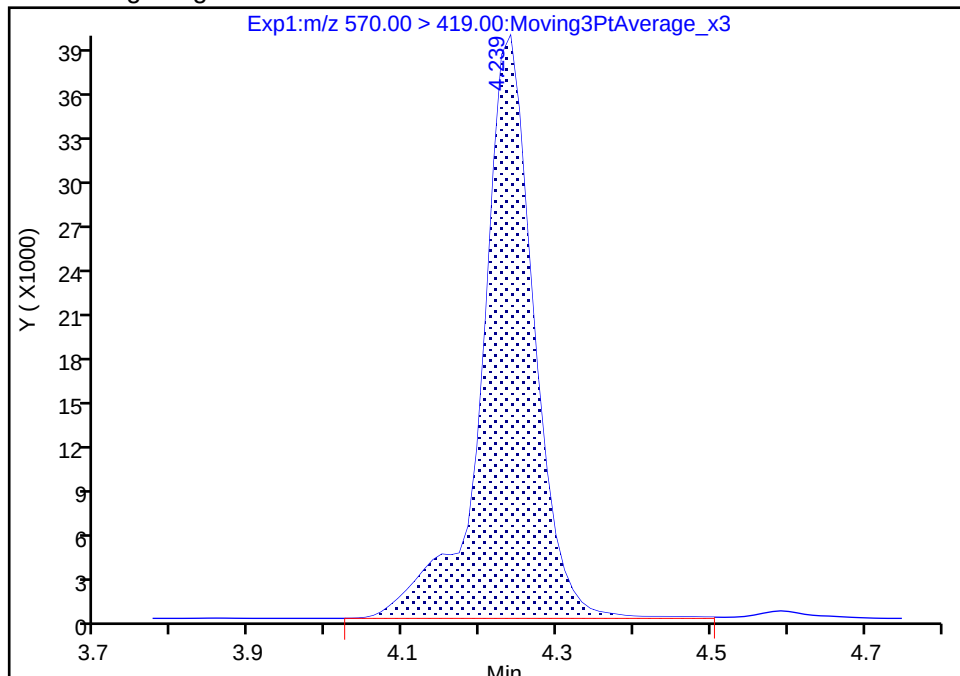
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

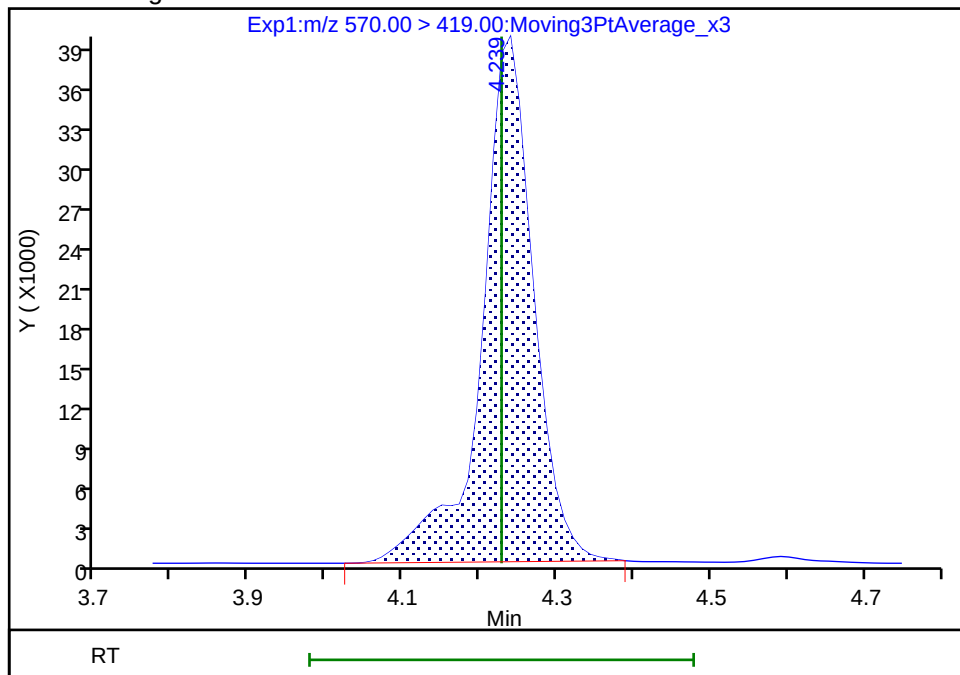
RT: 4.24
Area: 186349
Amount: 0.510442
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 183478
Amount: 0.560438
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

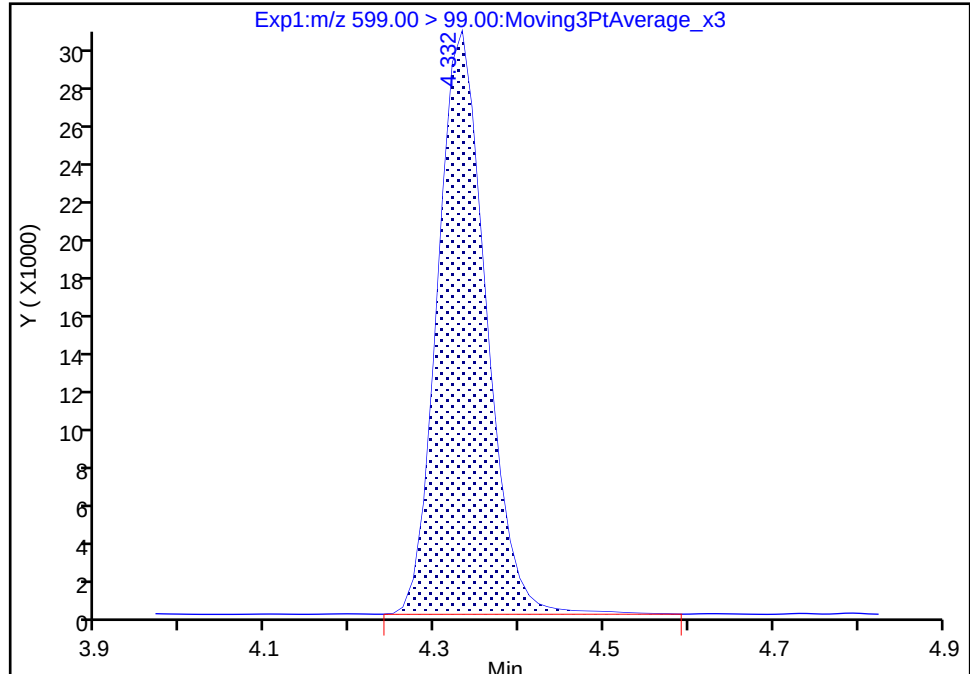
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

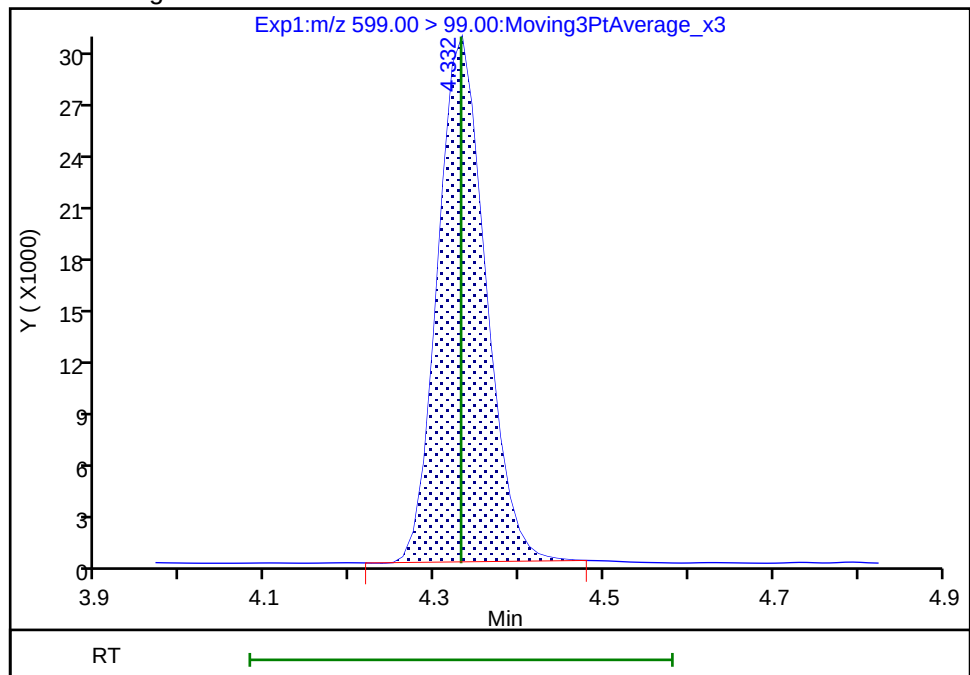
RT: 4.33
Area: 122520
Amount: 0.495943
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 120718
Amount: 0.518321
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

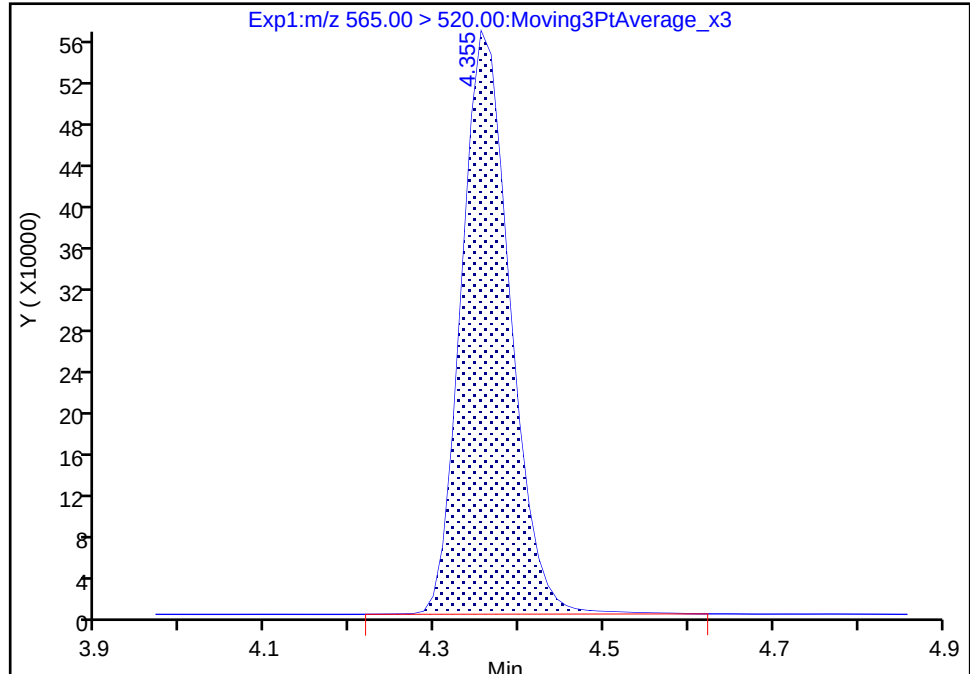
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

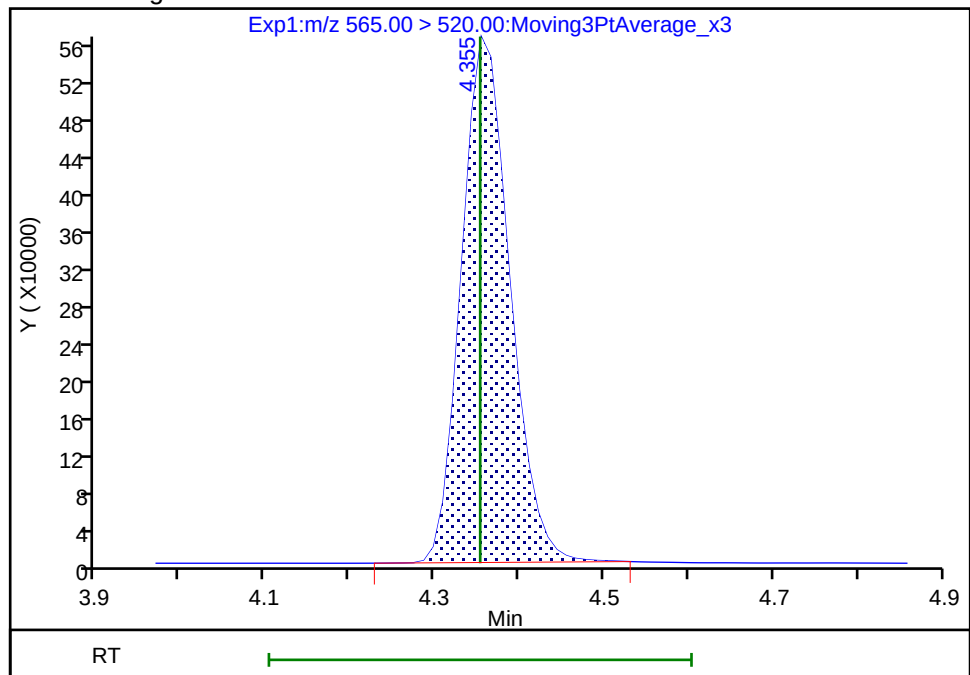
RT: 4.35
Area: 2246233
Amount: 1.255521
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2230172
Amount: 1.241544
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

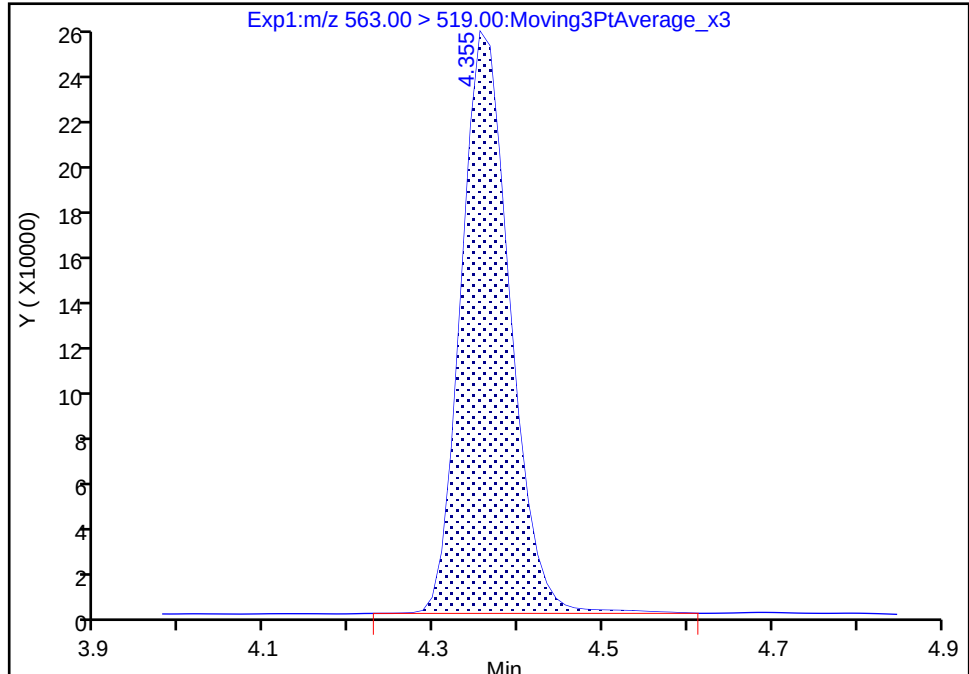
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

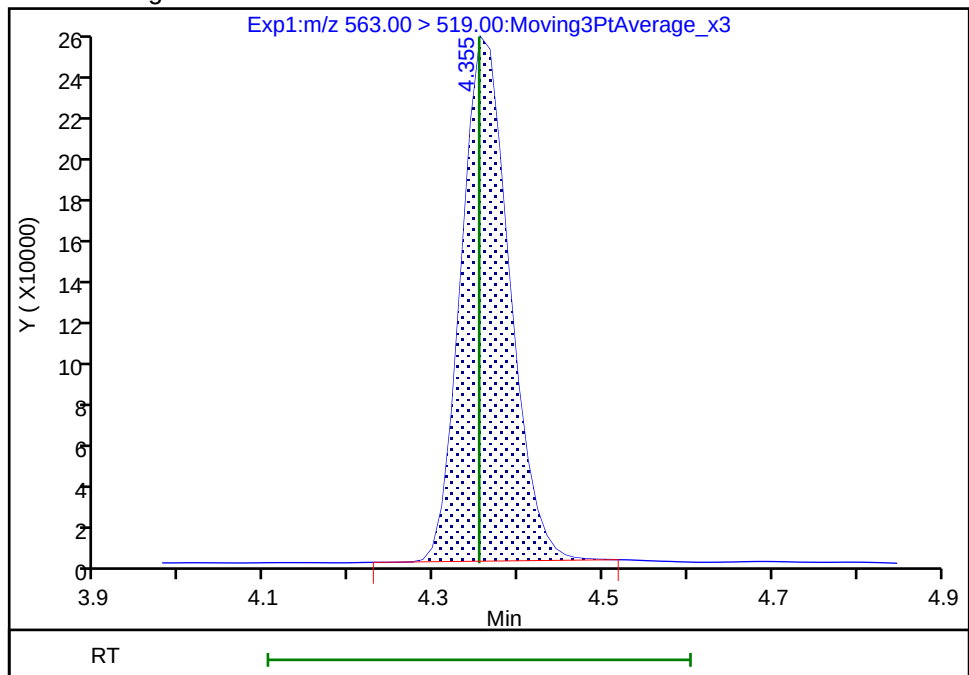
RT: 4.35
Area: 1019546
Amount: 0.528294
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1004863
Amount: 0.558860
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

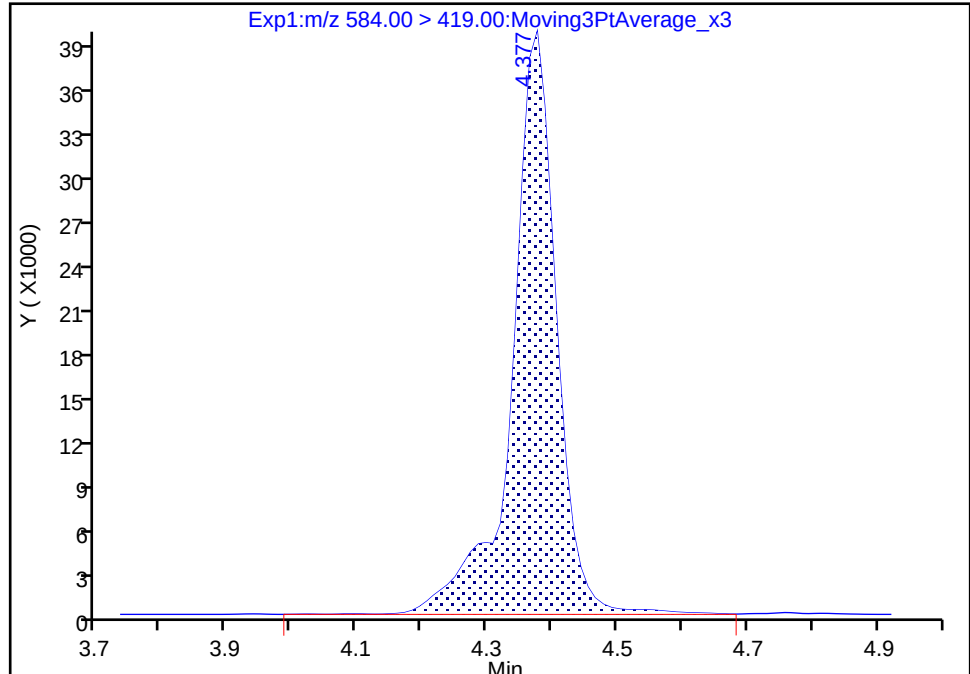
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

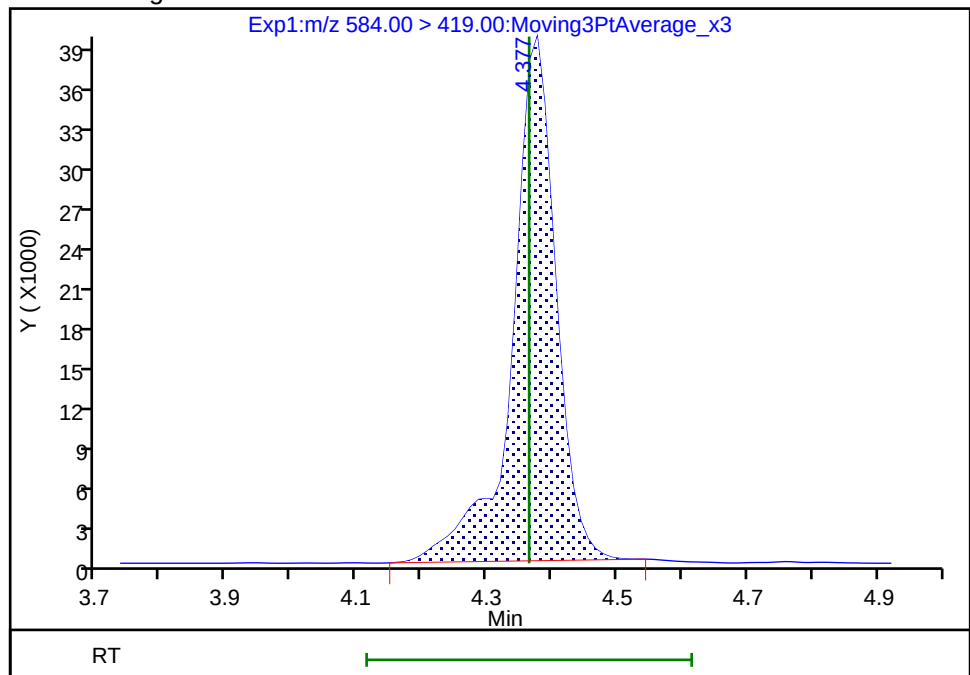
RT: 4.38
Area: 187455
Amount: 0.493834
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 182262
Amount: 0.510836
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

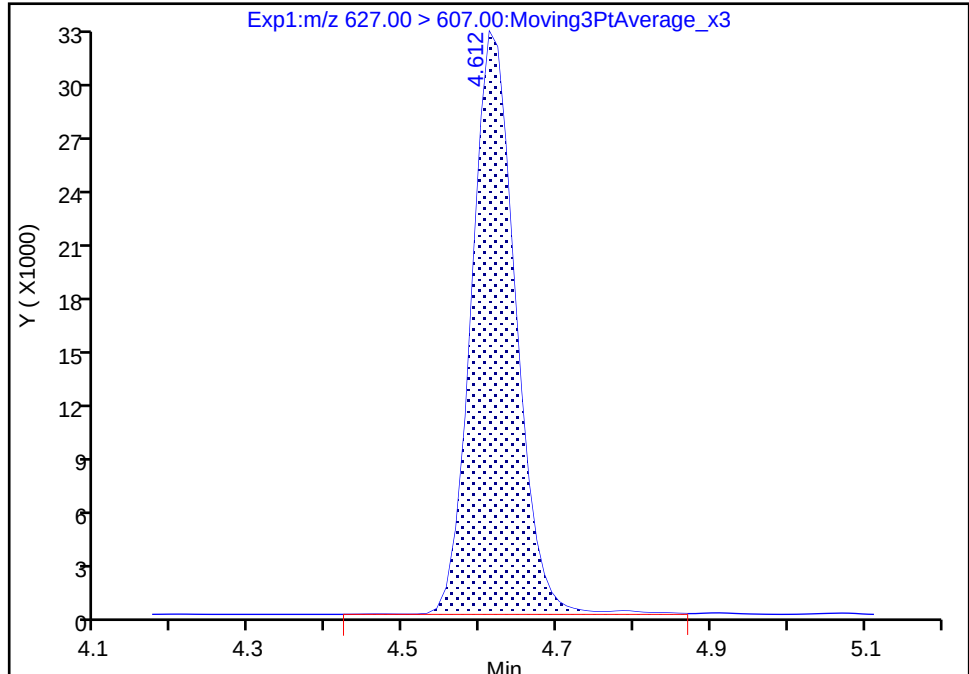
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

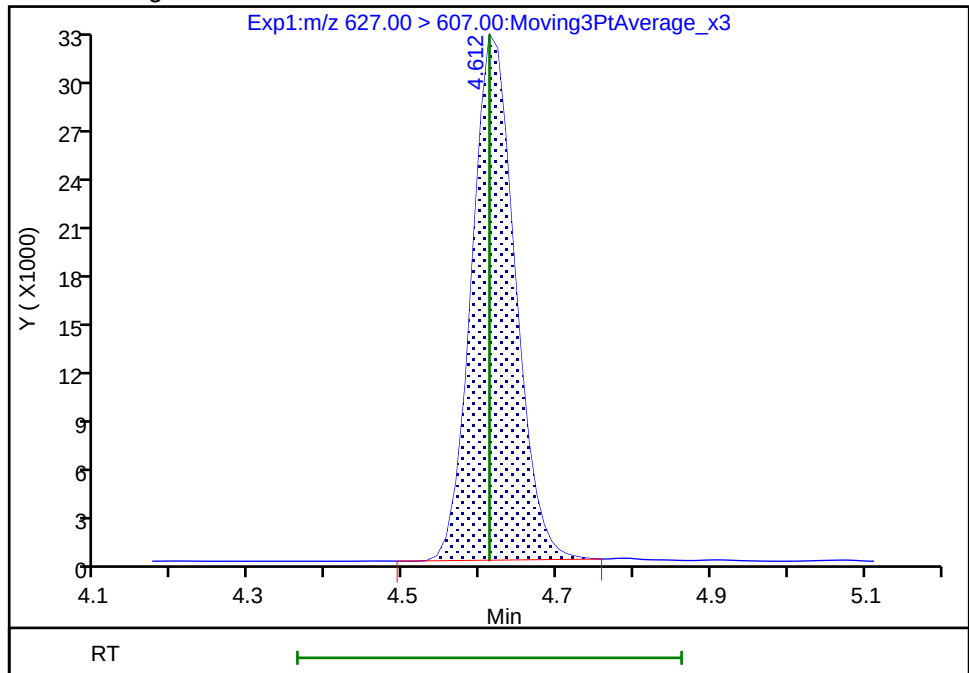
RT: 4.61
Area: 127475
Amount: 0.468658
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 125547
Amount: 0.481934
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

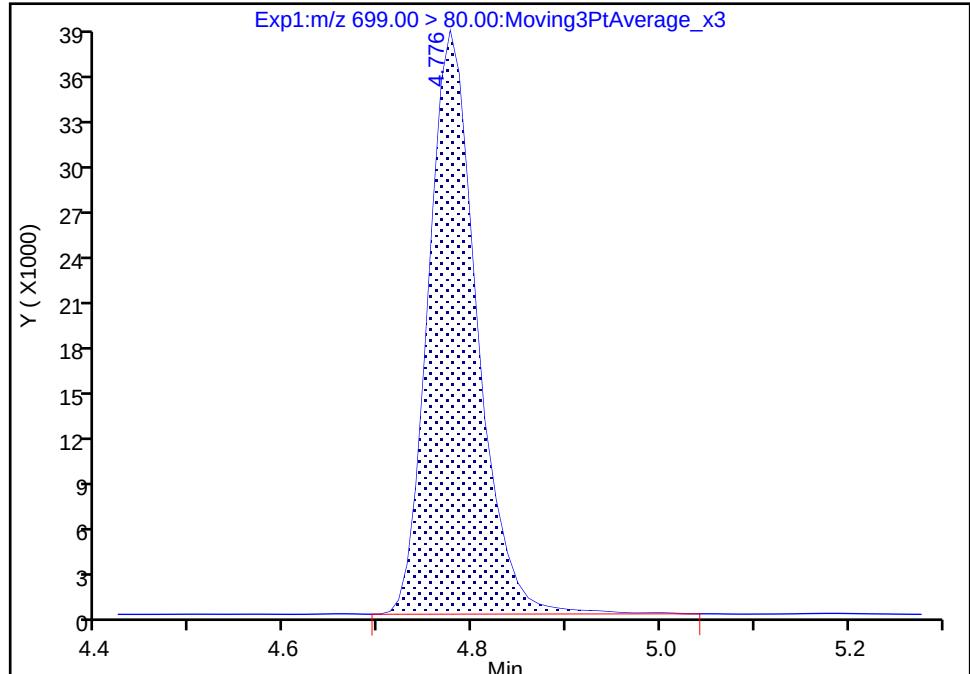
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

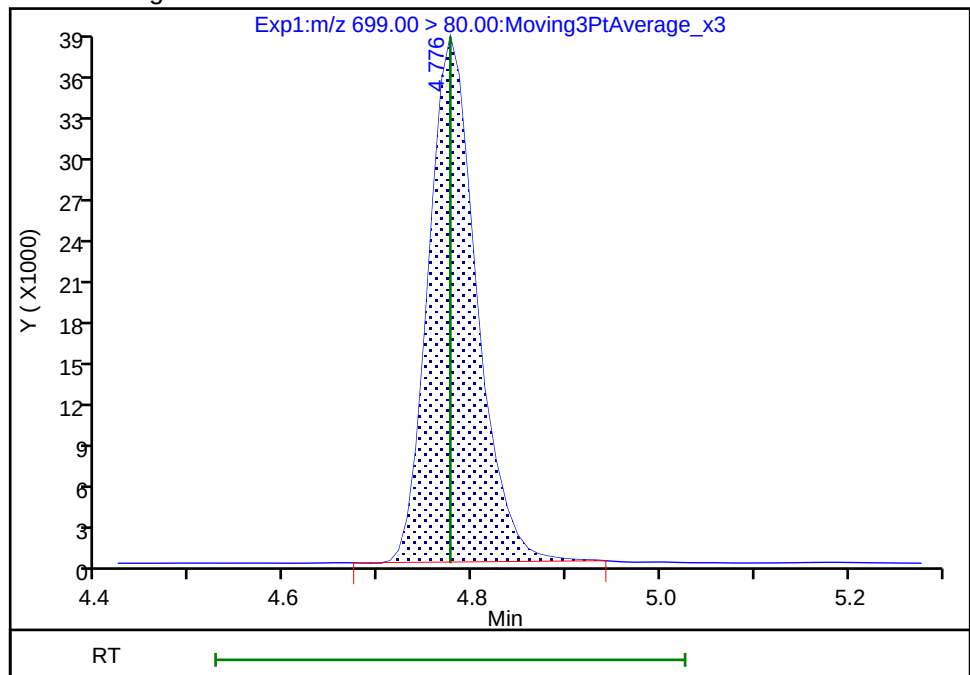
RT: 4.78
Area: 137382
Amount: 0.488107
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 135657
Amount: 0.510739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

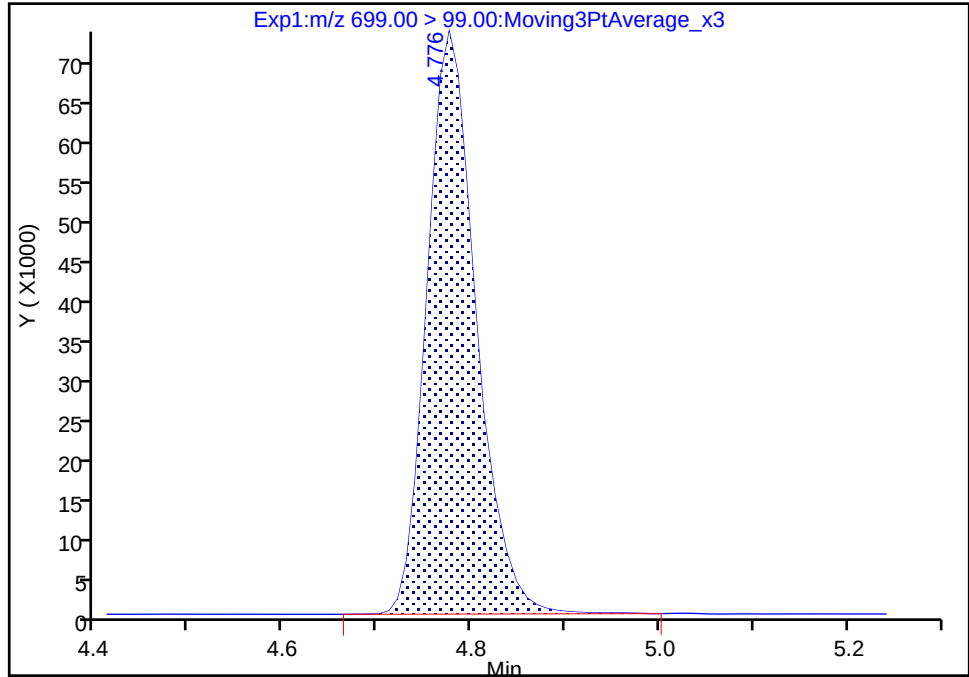
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

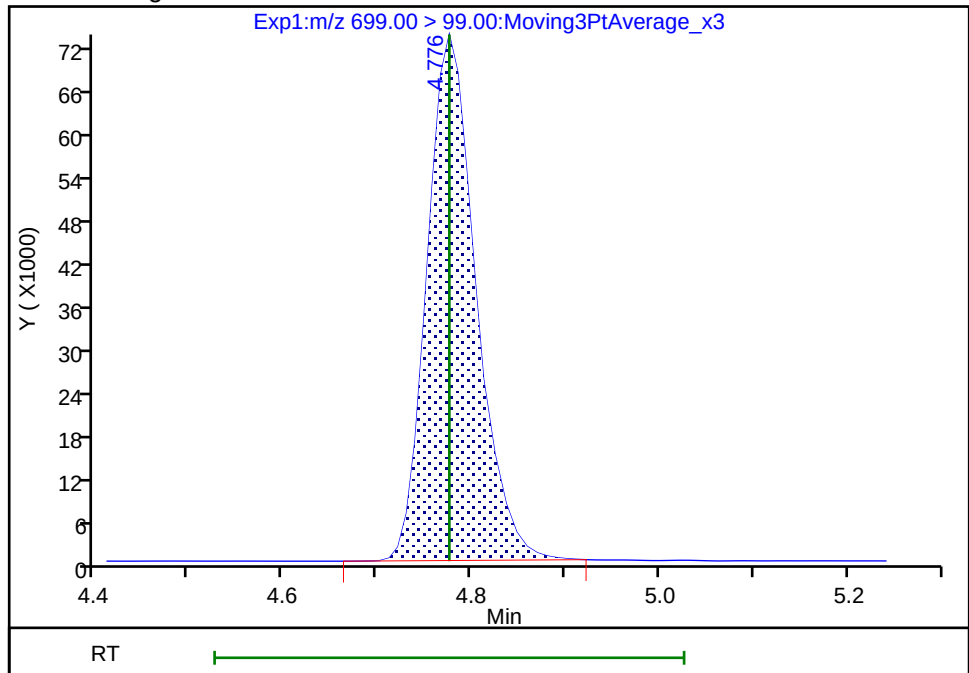
RT: 4.78
Area: 265617
Amount: 0.488107
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 264160
Amount: 0.510739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

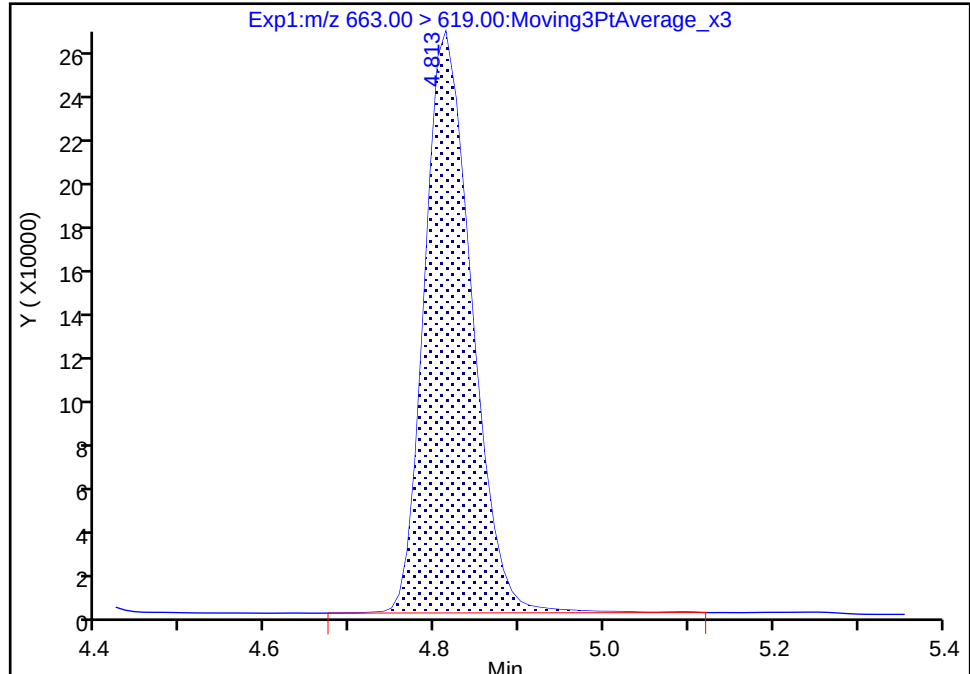
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

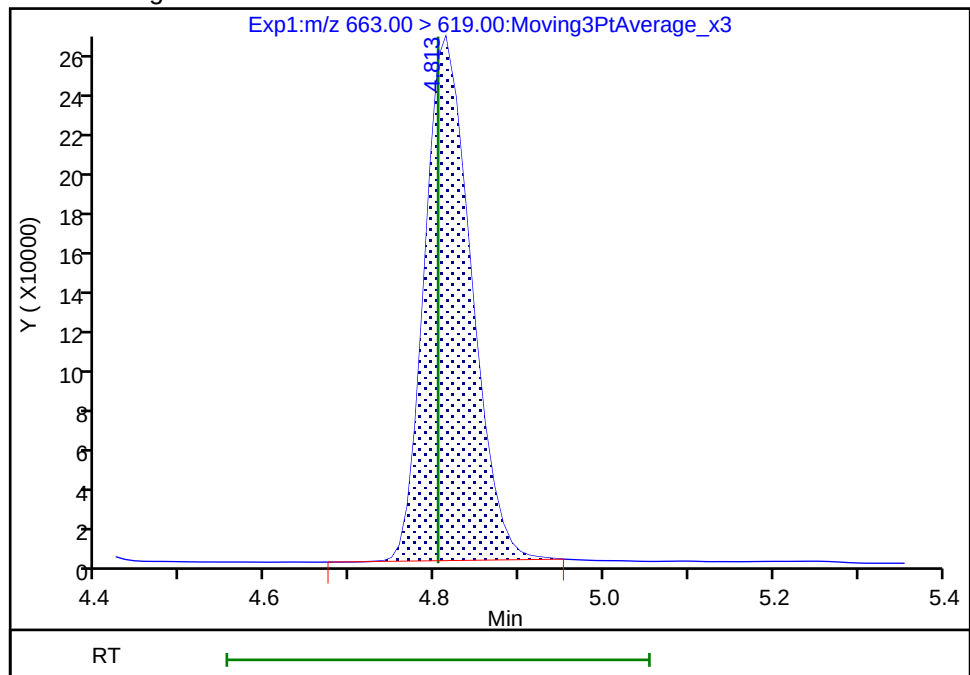
RT: 4.81
Area: 1002946
Amount: 0.507432
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 987678
Amount: 0.542529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

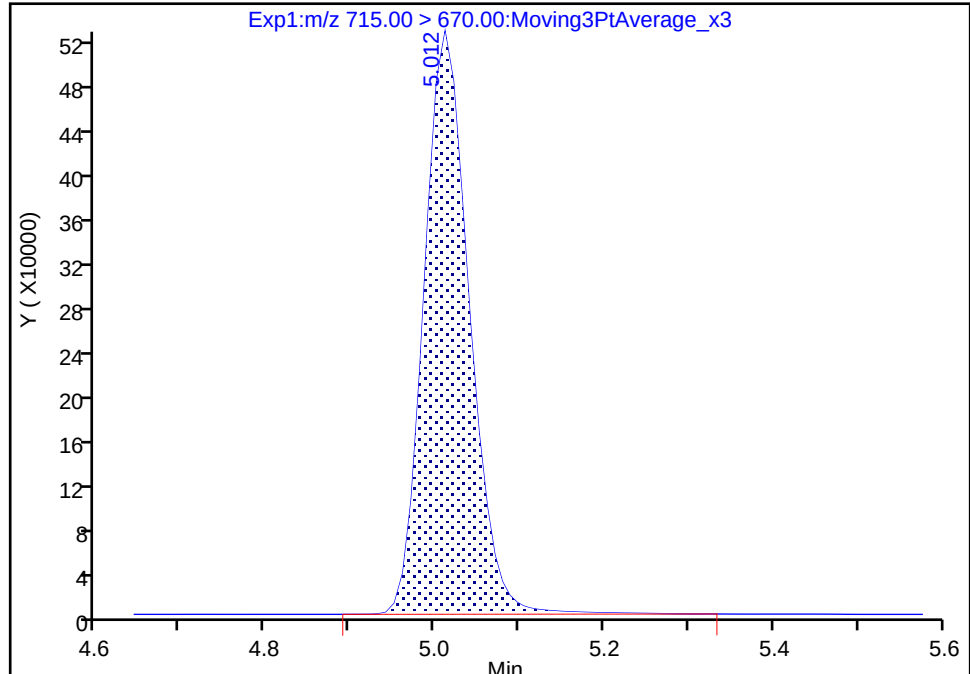
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

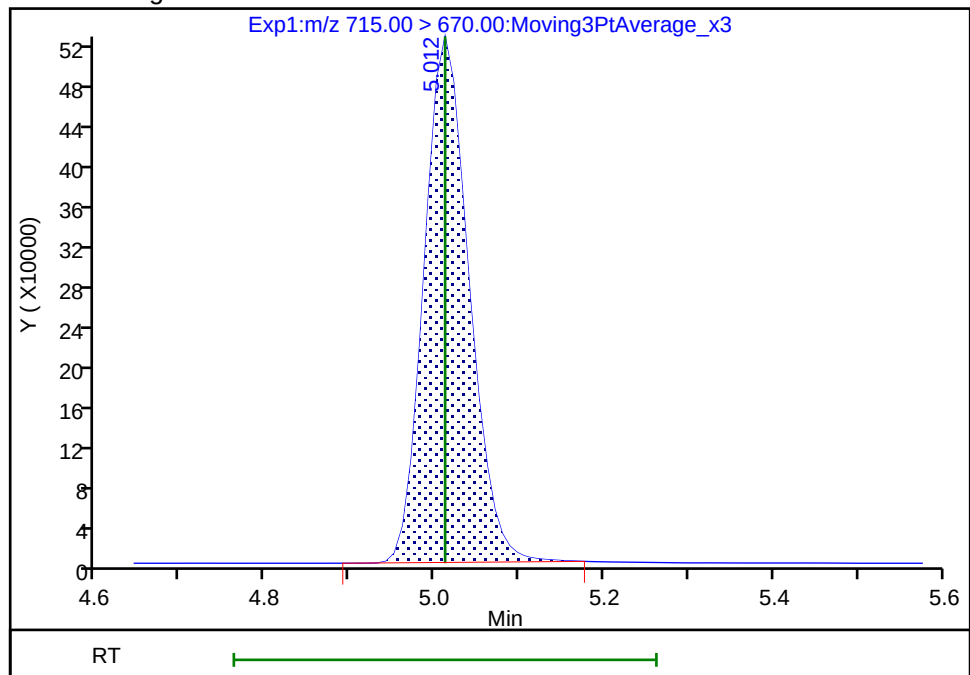
RT: 5.01
Area: 1966556
Amount: 1.245759
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1947280
Amount: 1.230207
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

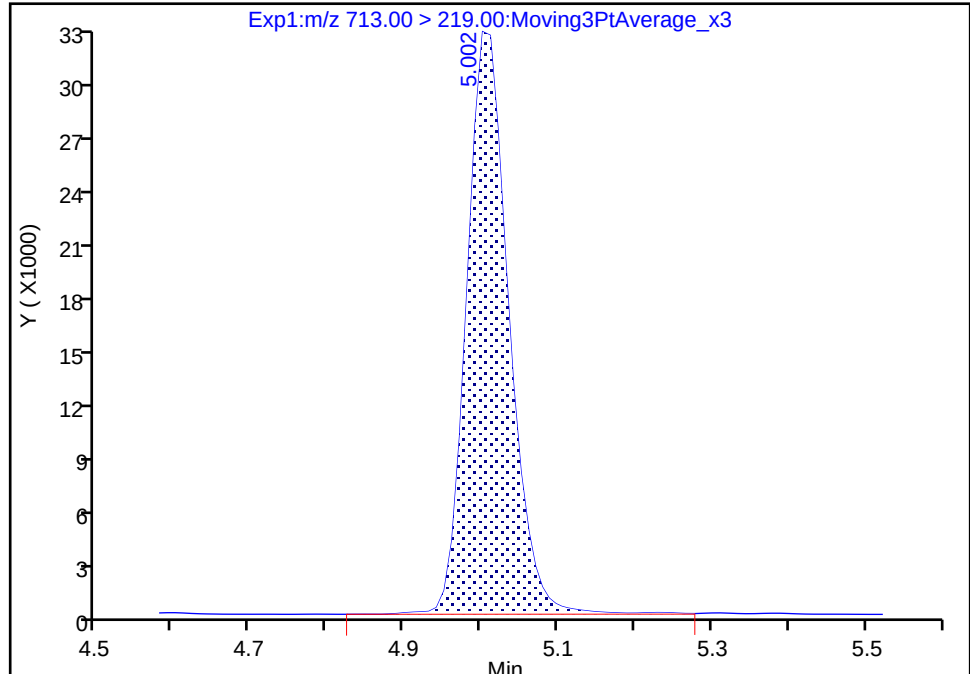
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

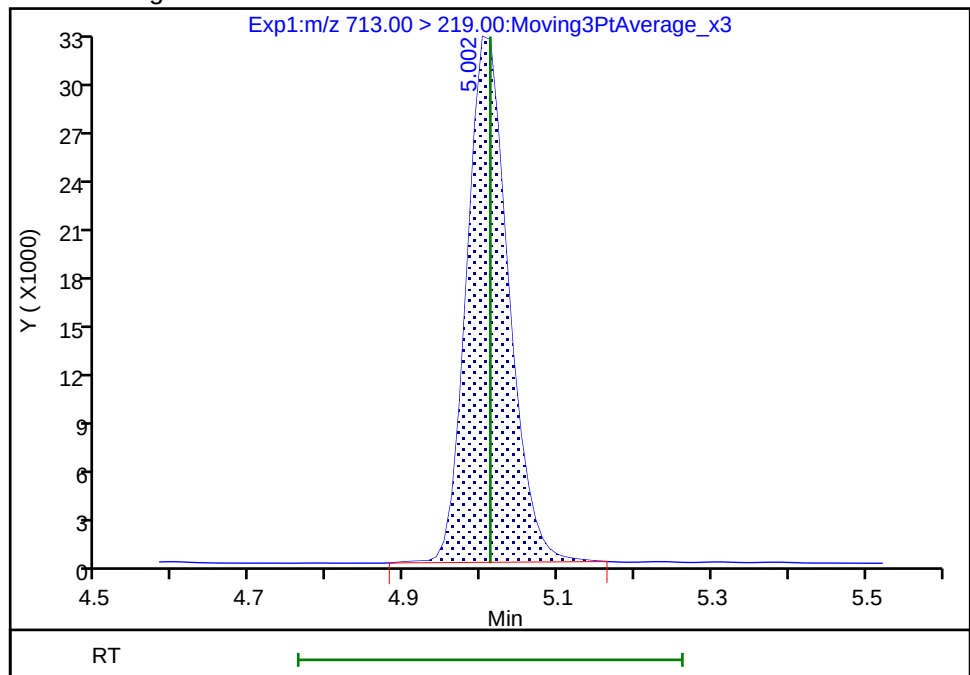
RT: 5.00
Area: 121696
Amount: 0.499944
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 120383
Amount: 0.532692
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

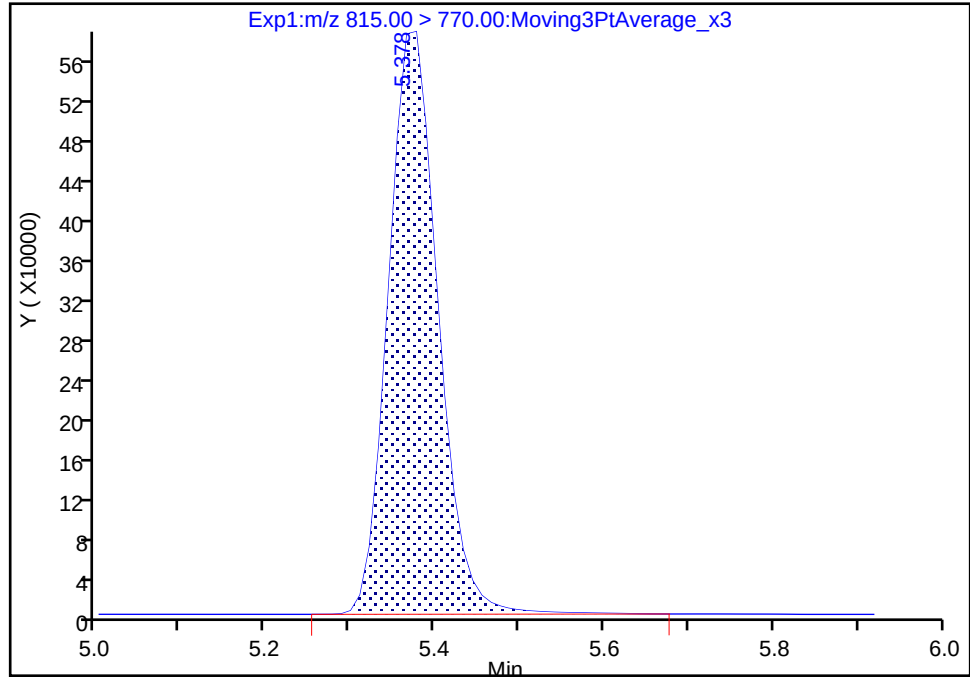
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

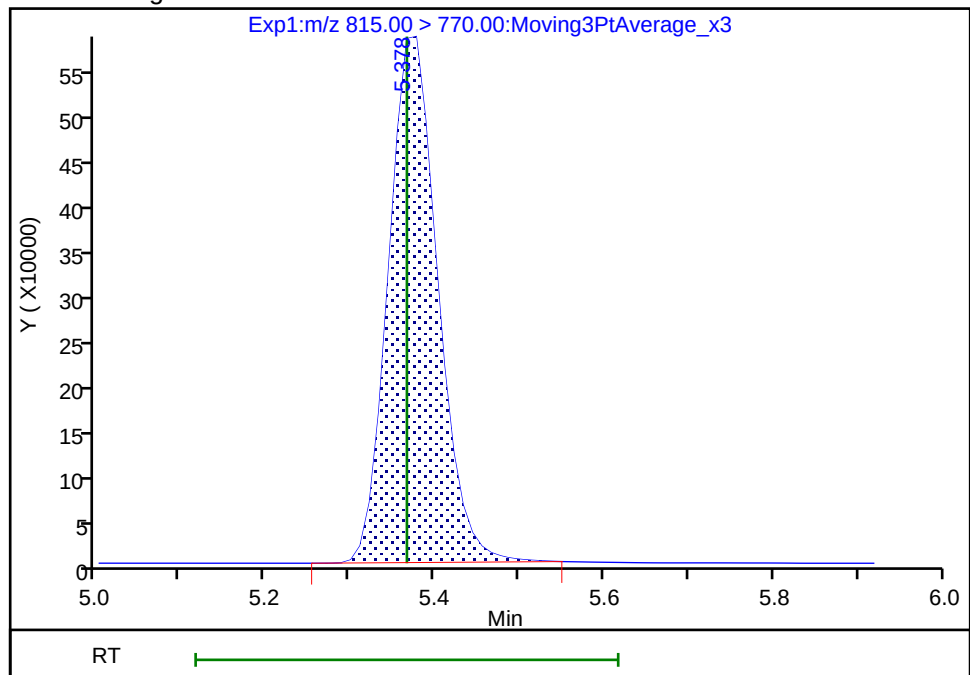
RT: 5.38
Area: 2367322
Amount: 1.213410
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 2348434
Amount: 1.200087
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

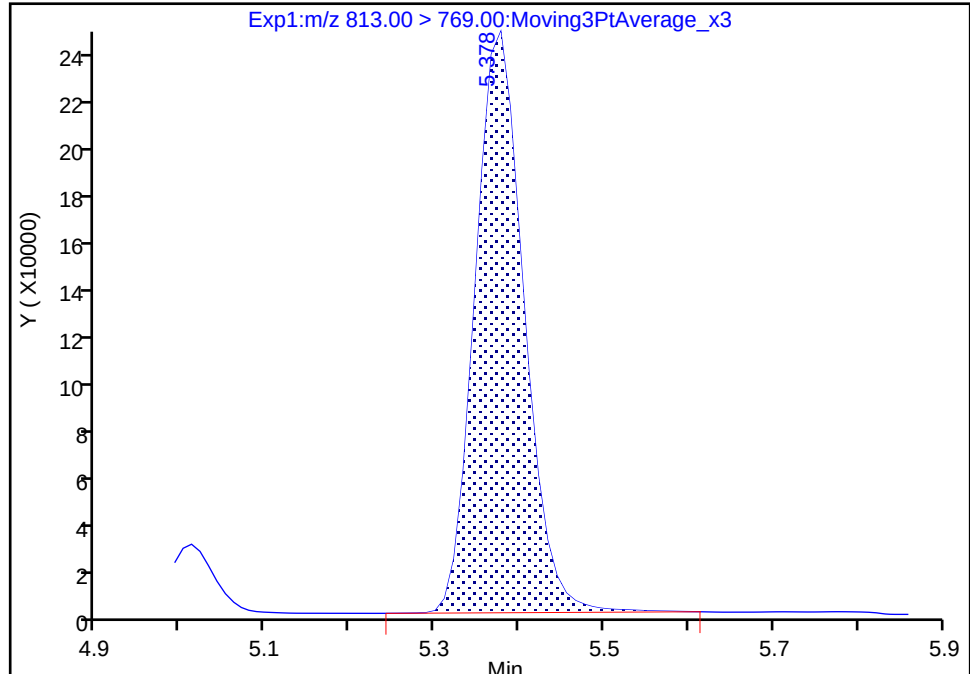
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

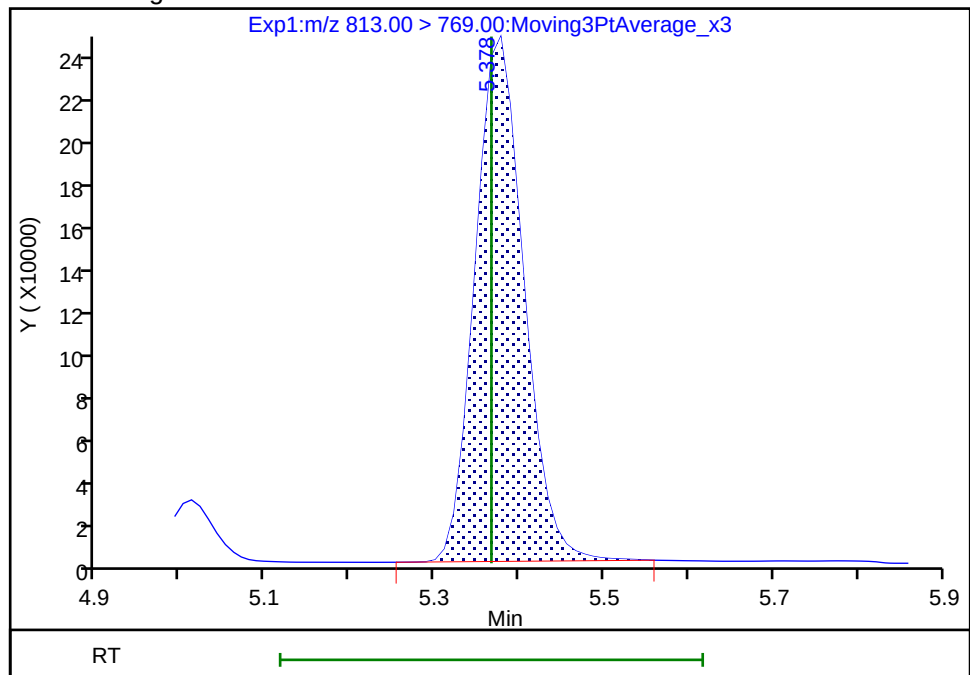
RT: 5.38
Area: 983409
Amount: 0.501394
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 978907
Amount: 0.549576
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

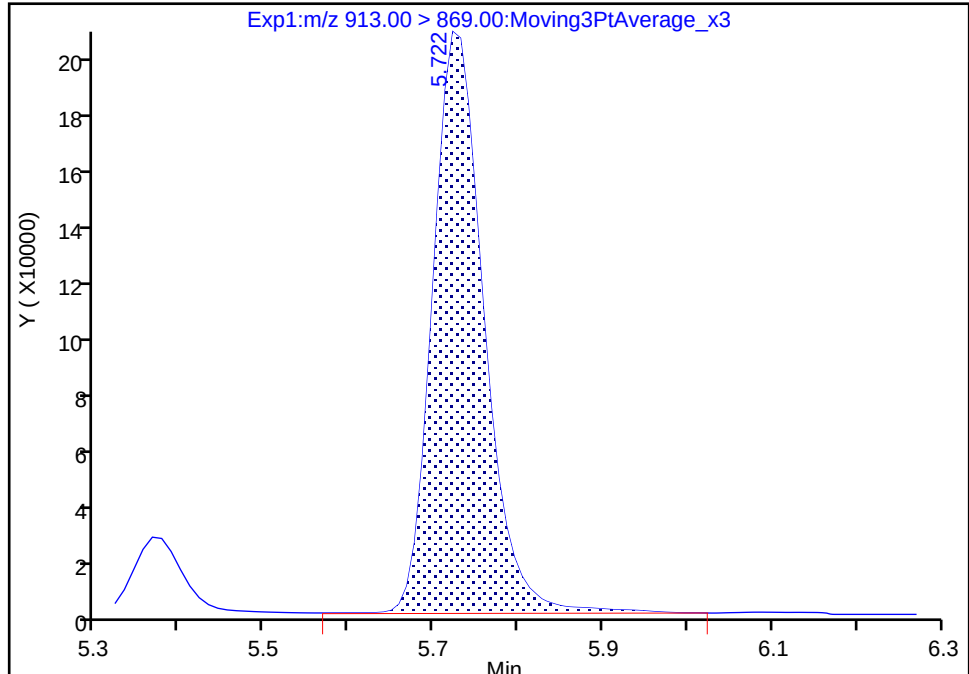
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

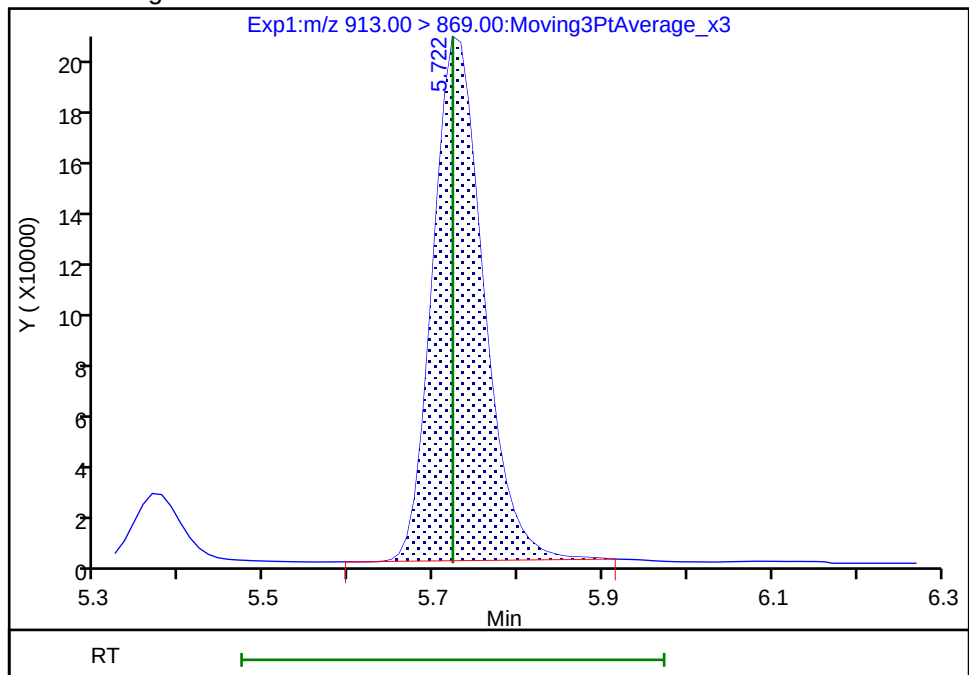
RT: 5.72
Area: 870066
Amount: 0.534447
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 852104
Amount: 0.550699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

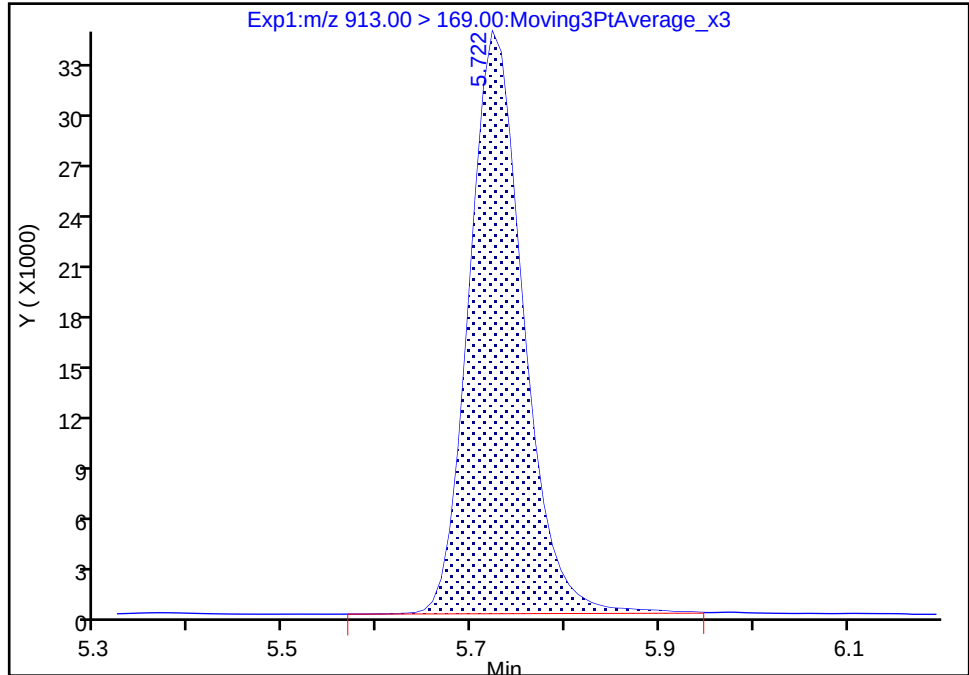
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

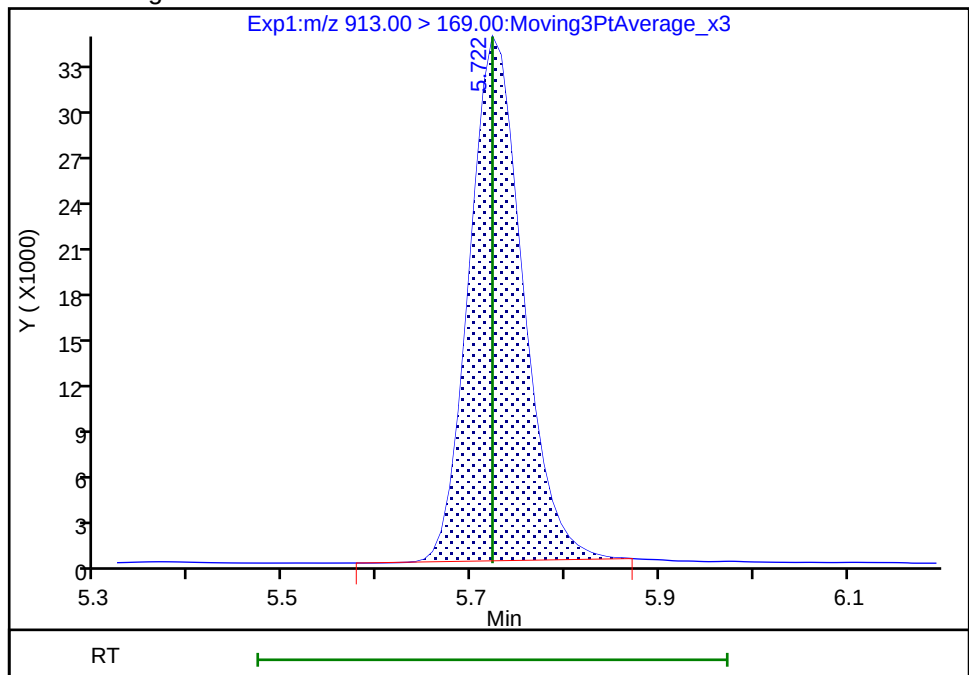
RT: 5.72
Area: 136693
Amount: 0.534447
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 133969
Amount: 0.550699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
 Lims ID: ICISAV
 Client ID:
 Sample Type: ICISAV Calib Level: 4
 Inject. Date: 18-Nov-2022 14:54:26 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0053396-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:43 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:10:02

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	2.076	2.076	0.0	0.602	2534911	1.21		97.1	8459	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	1911392	0.9140		91.4	178	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	1977830	1.24		99.5	4234	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1602160	0.9291		92.9	42.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1977208	1.14		98.4	321673	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1545417	0.7942	Target=2.14	89.8	2033	
298.90 > 99.00	2.400	2.400	0.0	1.000	739473		2.09(1.07-3.21)	89.8	579	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	391113	0.8767		93.9	2379	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	169056	1.11		94.8	181	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2055340	1.23		98.7	4582	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1703495	0.9508	Target=13.44	95.1	335	M
313.00 > 119.00	2.725	2.725	0.0	1.000	119585		14.25(6.72-20.15)	95.1	175	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	1404230	0.8581	Target=2.98	91.5	2468	
349.00 > 99.00	2.737	2.737	0.0	0.887	461710		3.04(1.49-4.47)	91.5	1082	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	372889	1.27		101	2292	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	286947	0.9110		91.1	991	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1449028	1.15		97.4	3635	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	1180858	0.8538	Target=3.57	93.8	1219	M
399.00 > 99.00	3.088	3.088	0.0	1.000	322894		3.66(1.78-5.35)	93.8	449	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2123066	1.24		99.1	4752	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	1718424	0.9293	Target=3.93	92.9	372	M
363.00 > 169.00	3.099	3.099	0.0	1.000	433271		3.97(1.96-5.89)	92.9	919	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	4197219	0.9414	Target=3.08	99.9	3253	
377.00 > 85.00	3.132	3.132	0.0	0.832	1329955		3.16(1.54-4.62)	99.9	1576	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	249636	1.18		99.6	824	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	404018	0.8979		94.7	1316	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	1021904	0.9037	Target=5.16	94.9	1725	M
449.00 > 99.00	3.439	3.439	0.0	0.914	198660		5.14(2.58-7.74)	94.9	800	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2342274	1.22		97.3	4621	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2326928	1.25			6928	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	1946044	0.9715	Target=2.82	97.1	147	
413.00 > 169.00	3.448	3.448	0.0	1.000	696928		2.79(1.41-4.23)	97.1	1444	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	967441	1.13		94.8	2148	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	856526	0.8700	Target=5.01	93.7	226	M
499.00 > 99.00	3.764	3.764	0.0	1.000	167691		5.11(2.50-7.51)	93.7	213	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2356501	1.26		101	3960	
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	1851038	0.9465	Target=8.49	94.7	363	
463.00 > 169.00	3.783	3.783	0.0	1.000	216403		8.55(4.25-12.74)	94.7	1426	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	2037918	0.9019		96.8	7599	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	673297	0.9060	Target=2.60	94.4	3265	
549.00 > 99.00	4.061	4.050	0.011	1.079	265784		2.53(1.30-3.90)	94.4	989	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.184	2384612	1.25		100.0	2422	M

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	4.081	0.0	1.000	1957474	0.9462	Target=10.03	94.6	861	
513.00 > 169.00	4.081	4.081	0.0	1.000	190868		10.26(5.02-15.05)	94.6	378	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	300249	1.16		97.1	1026	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	370895	0.9148		95.5	1282	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1483356	0.9442		94.4	2971	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1879604	1.20		96.1	1789	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	470154	1.21		96.8	798	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.000	324897	0.99		99.3	621	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	528363	0.9005	Target=2.58	93.4	2444	
599.00 > 99.00	4.331	4.331	0.0	1.151	210859		2.51(1.29-3.86)	93.4	1382	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	1710346	0.9714	Target=10.10	97.1	822	
563.00 > 169.00	4.353	4.353	0.0	1.000	173100		9.88(5.05-15.15)	97.1	1375	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2183949	1.25		100	2475	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	0.0	1.000	311108	0.9436		94.4	1137	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	460360	1.20		96.3	910	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	3224328	0.9257		98.3	2744	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	1785384	0.9748	Target=7.41	97.5	120	
613.00 > 169.00	4.591	4.591	0.0	1.000	229653		7.77(3.70-11.11)	97.5	1063	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2161023	1.21		97.1	3209	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	226266	0.9287		96.3	3406	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	229113	0.9229	Target=0.51	95.3	1358	
699.00 > 99.00	4.776	4.776	0.0	1.269	454220		0.50(0.25-0.76)	95.3	1975	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.804	4.804	0.0	1.046	1631703	0.9315	Target=5.40	93.2	116	M
663.00 > 169.00	4.804	4.804	0.0	1.046	313474		5.21(2.70-8.10)	93.2	887	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	188468	0.9330	Target=0.90	93.3	1017	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	212234		0.89(0.45-1.35)	93.3	1287	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	1844360	1.20		95.8	2227	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.367	5.367	0.0	1.557	2280992	1.20		95.9	2085	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.367	5.367	0.0	1.000	1633724	0.9566	Target=5.85	95.7	136	M
813.00 > 169.00	5.367	5.367	0.0	1.000	289352		5.65(2.93-8.78)	95.7	1150	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	1473641	0.9805	Target=6.30	98.1	150	M
913.00 > 169.00	5.722	5.722	0.0	1.066	236187		6.24(3.15-9.46)	98.1	764	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00036

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d

Injection Date: 18-Nov-2022 14:54:26

Instrument ID: LC812

Lims ID: ICISAV

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

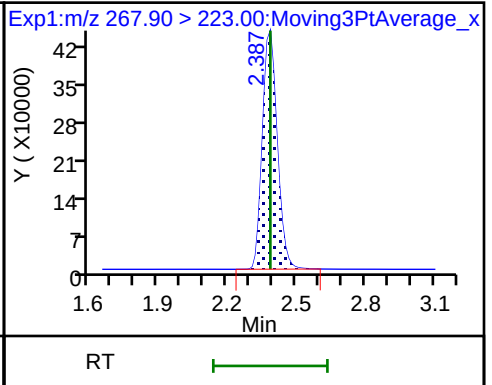
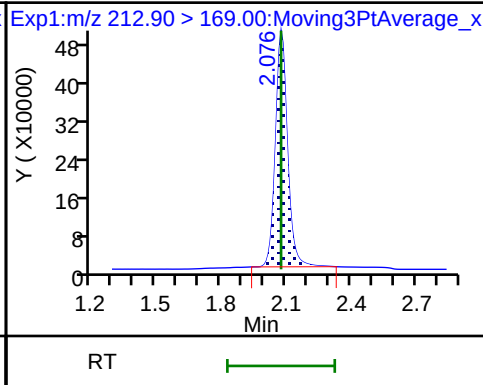
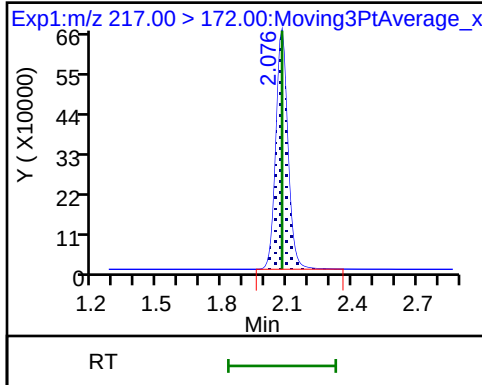
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

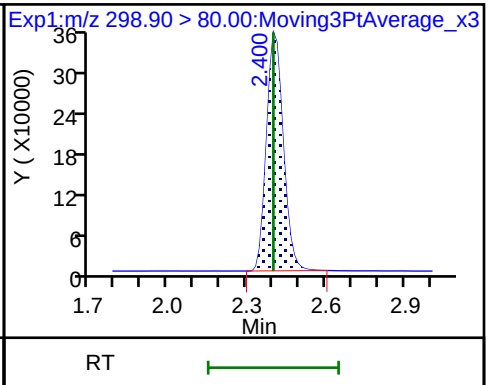
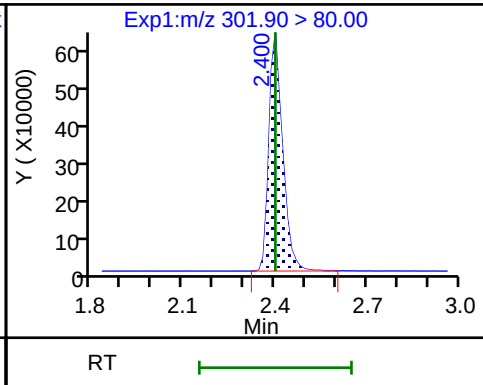
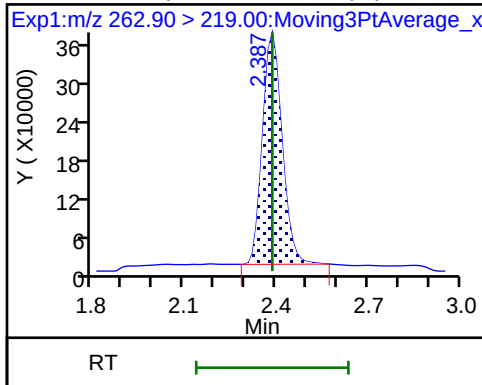
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

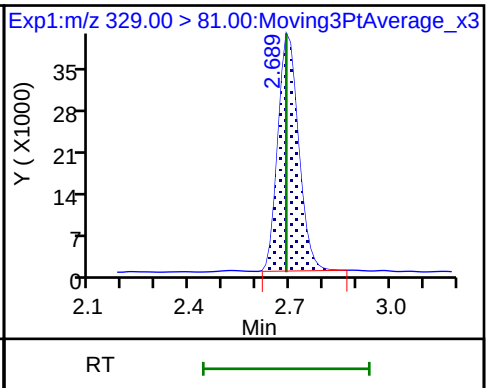
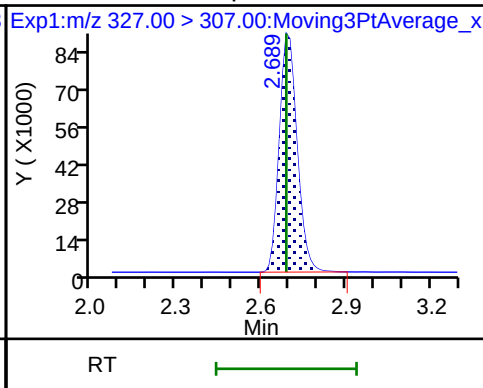
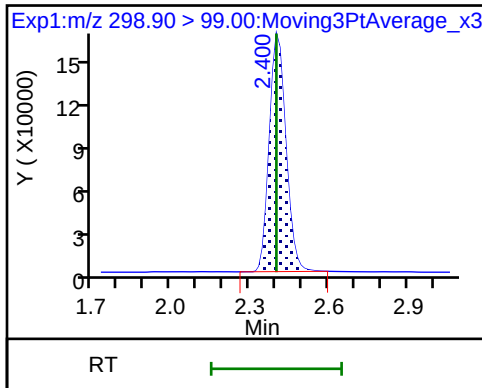
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

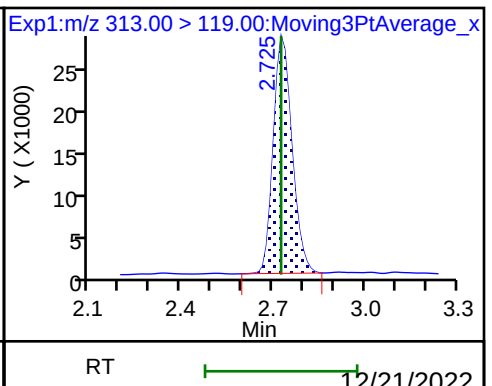
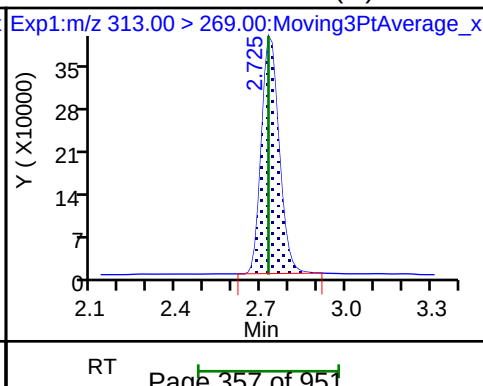
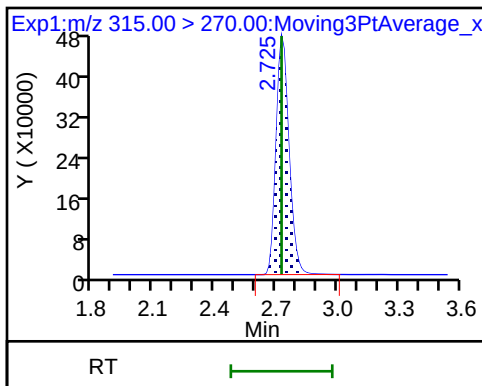
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

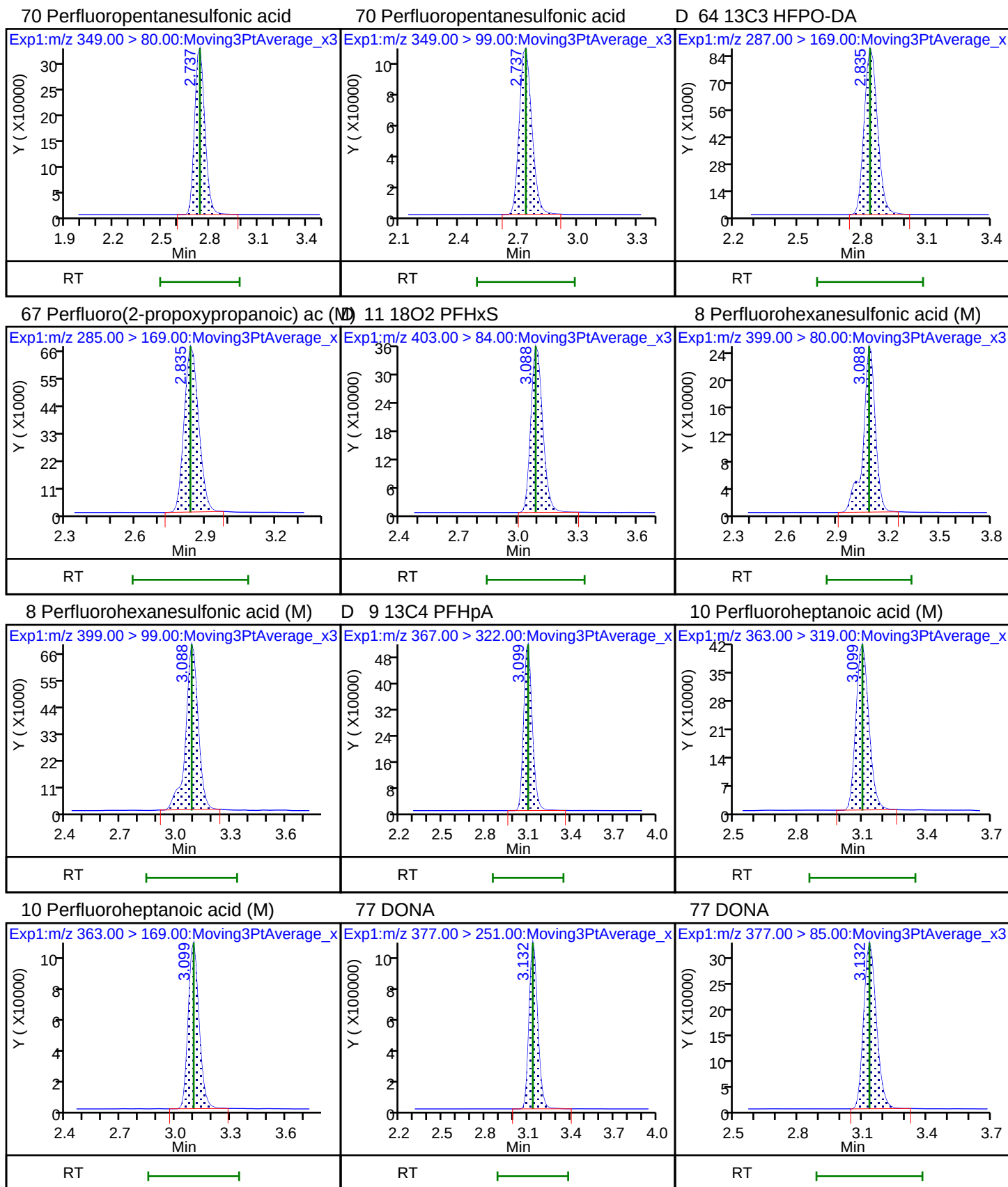


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

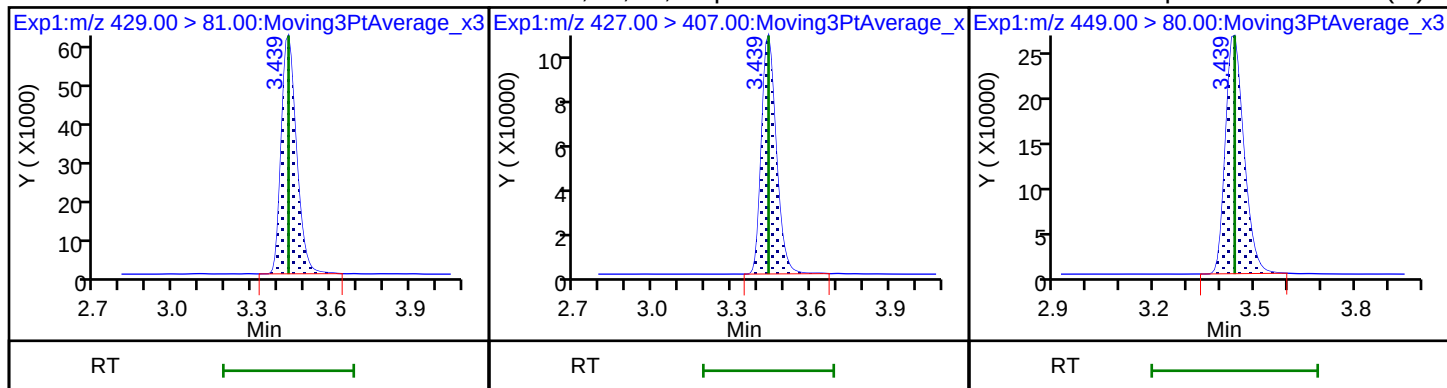




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

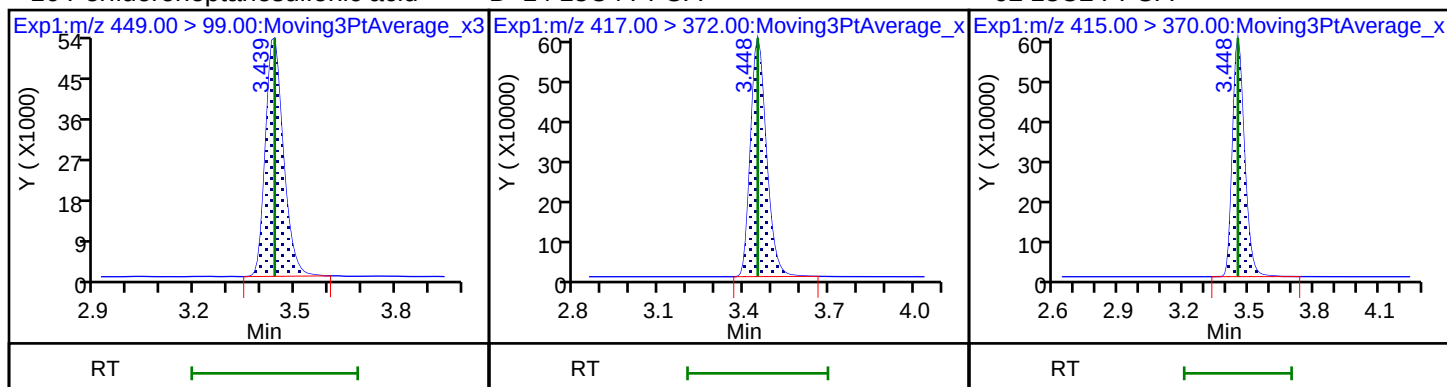
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

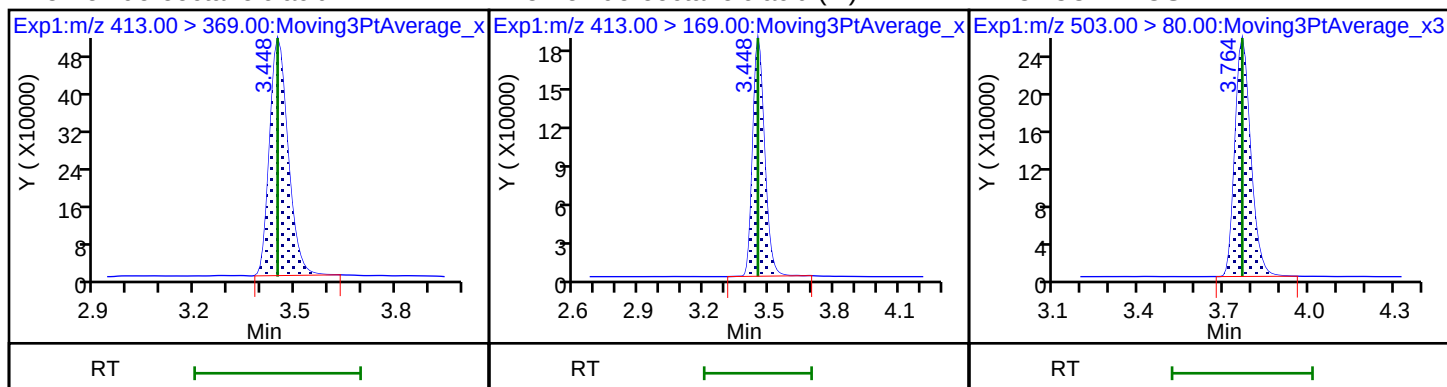
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

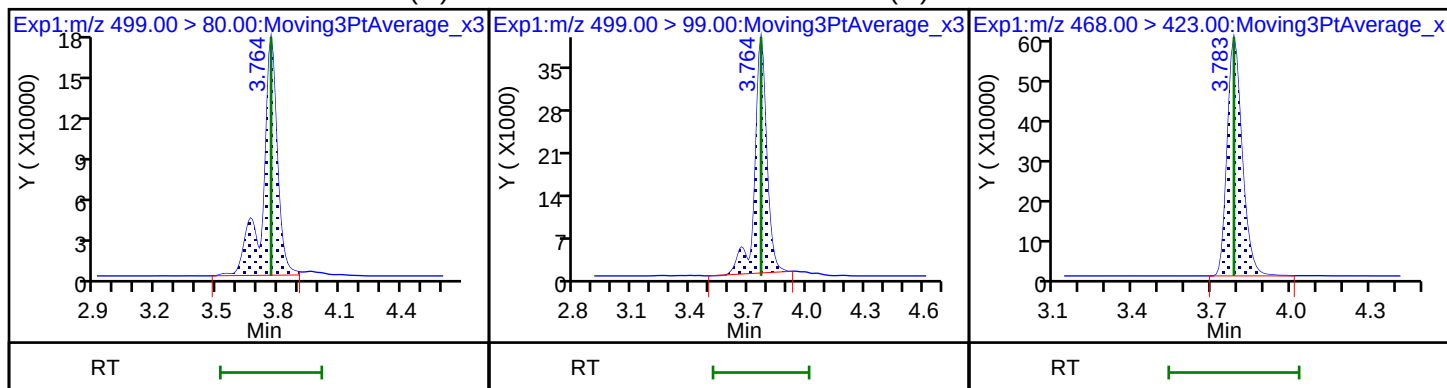
D 18 13C4 PFOS

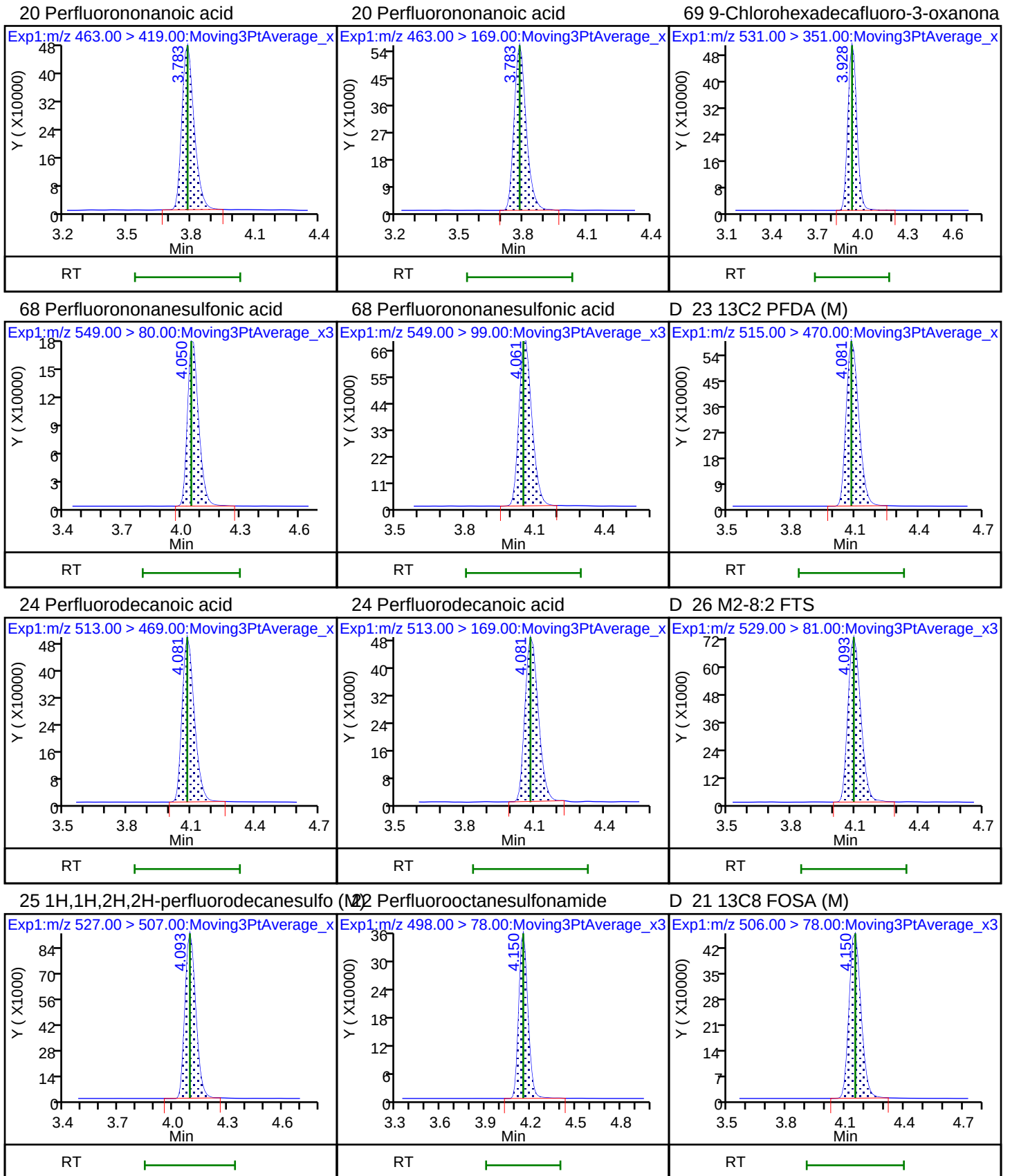


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

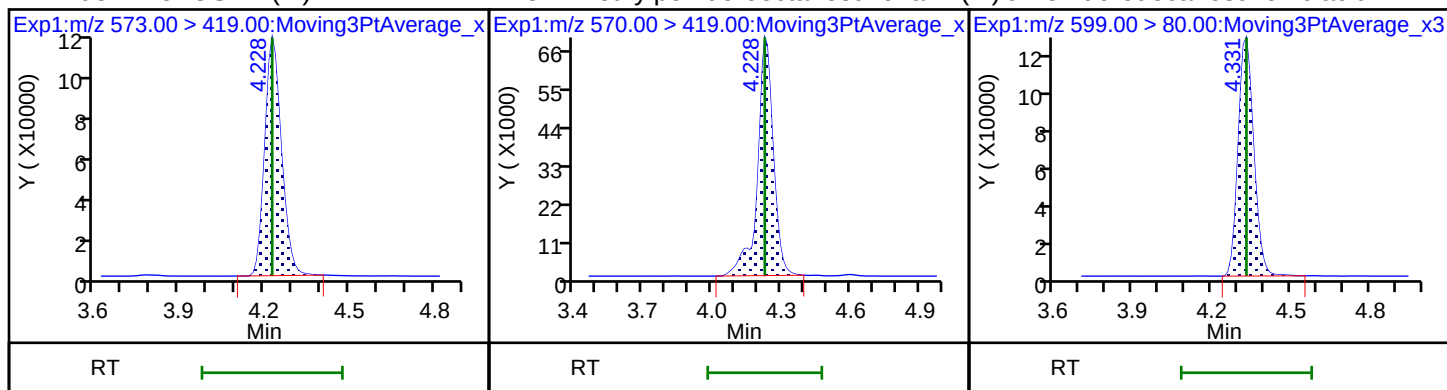




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

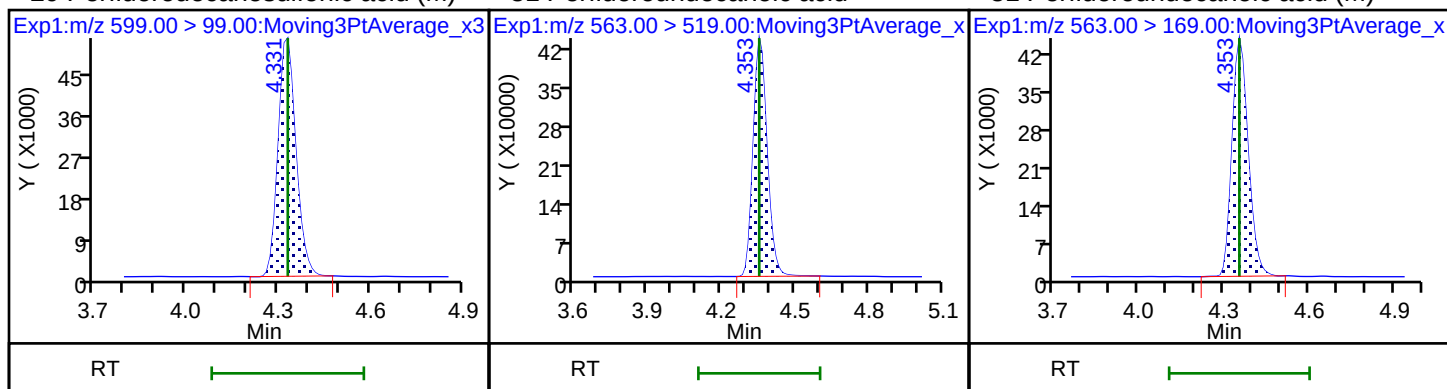
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

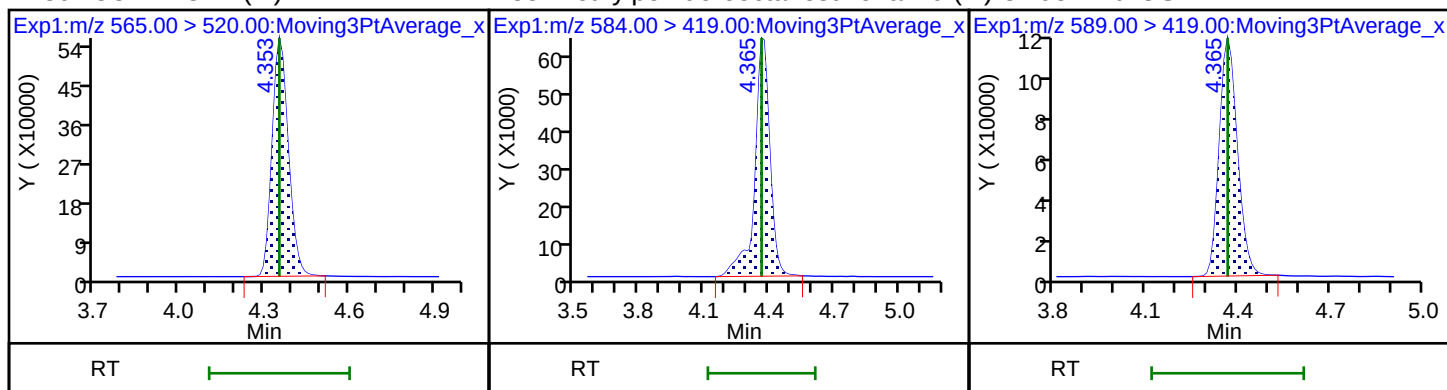
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA (M)

33 N-ethylperfluorooctanesulfonamid (M)

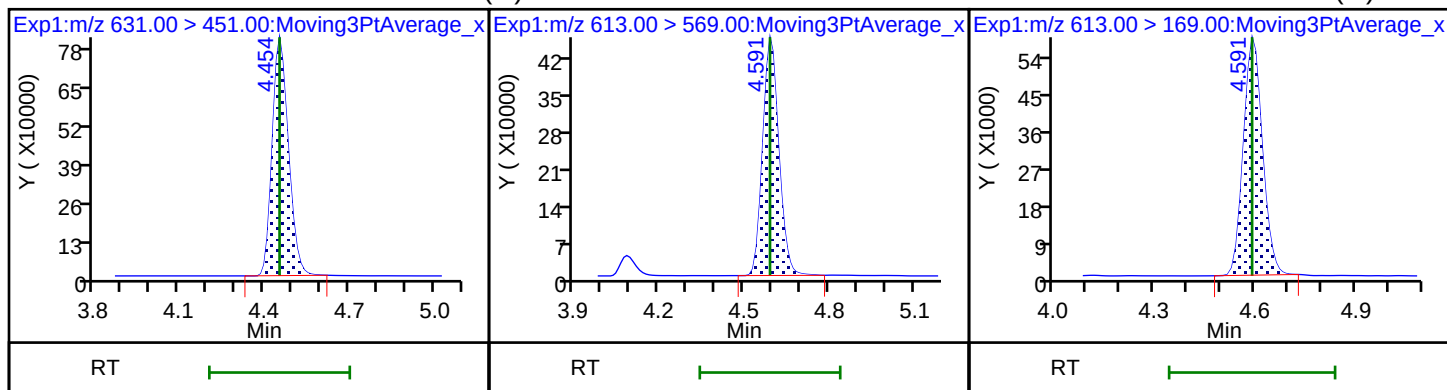
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

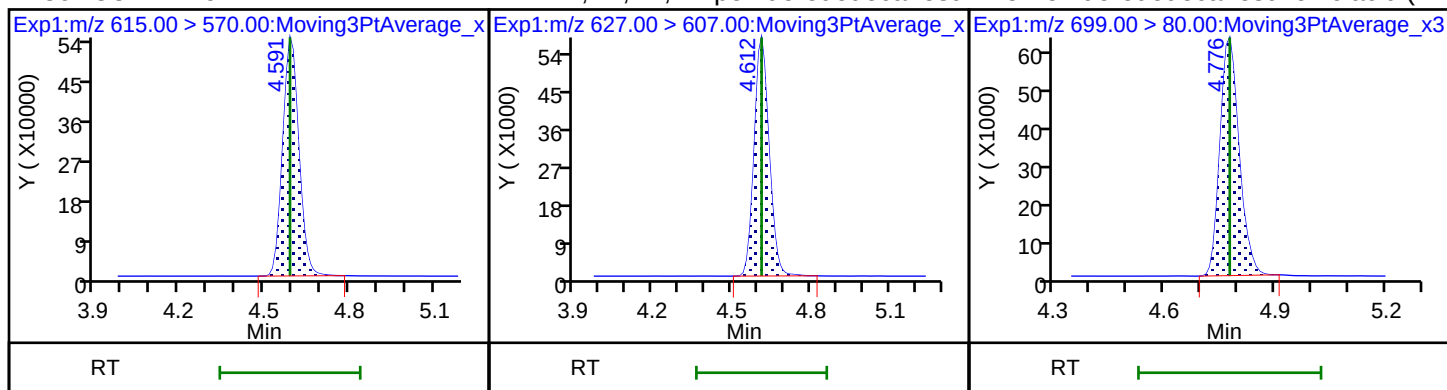
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



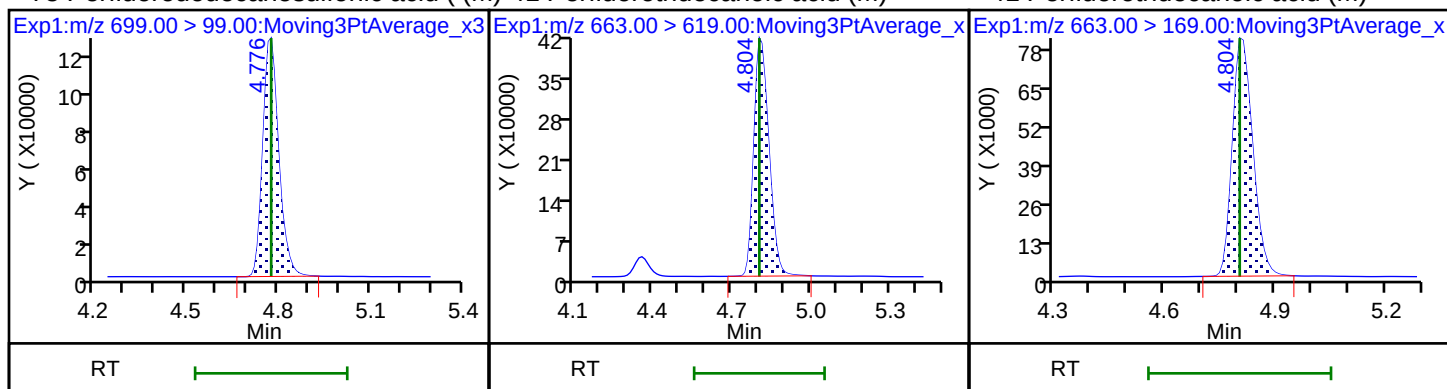
D 36 13C2 PFD0A

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

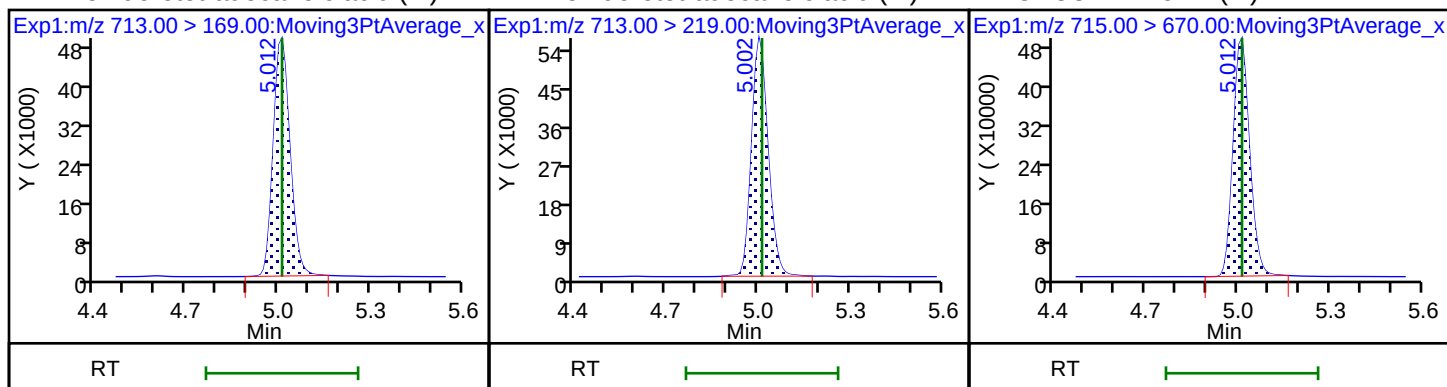
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

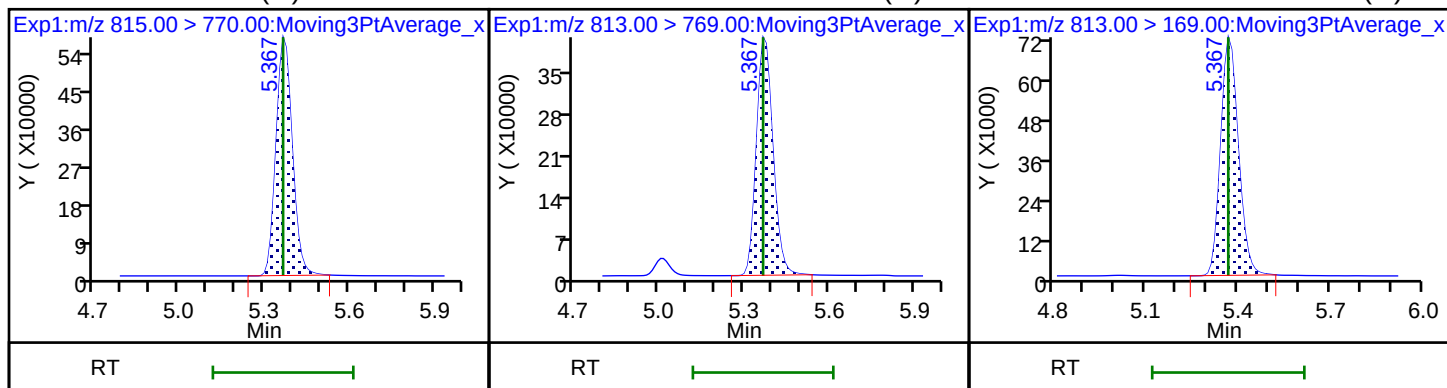
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

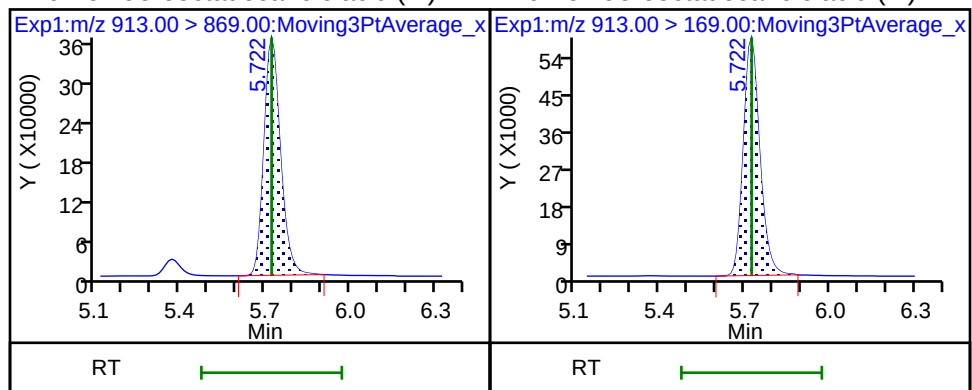
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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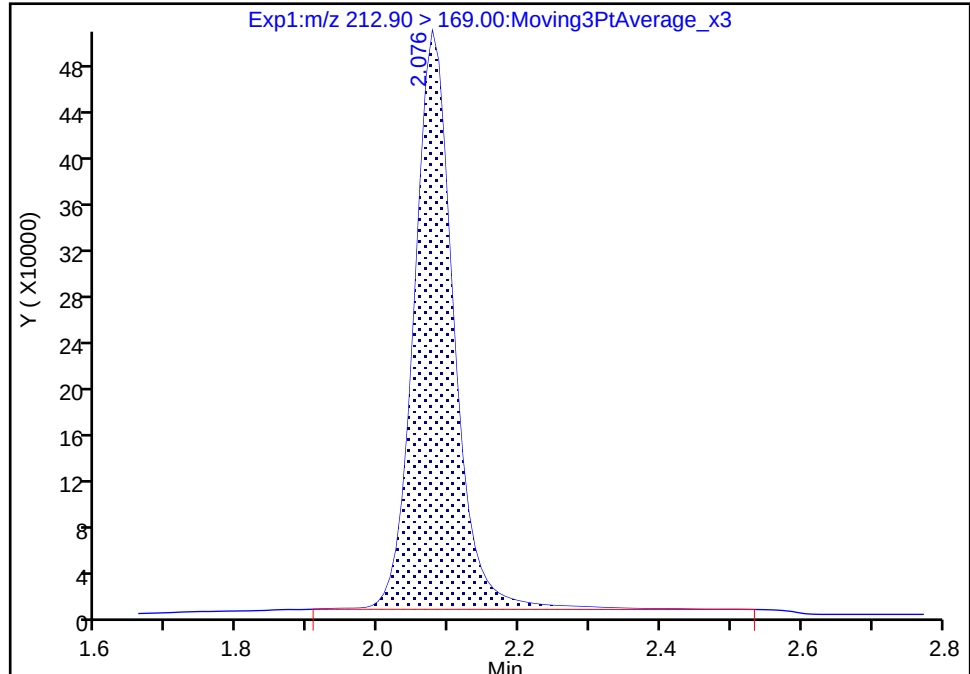
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

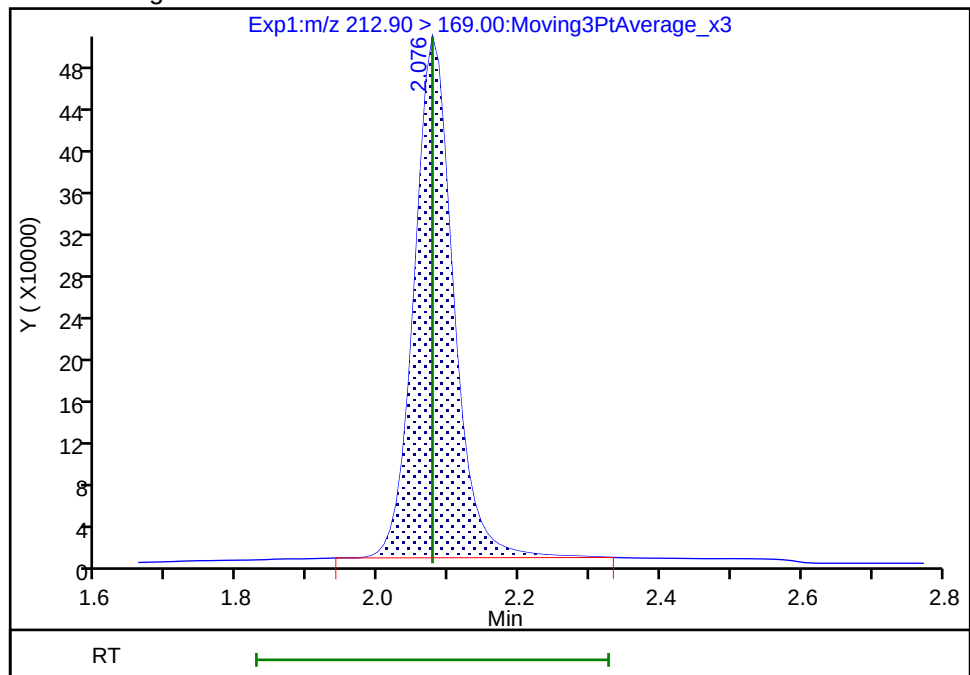
RT: 2.08
Area: 1938856
Amount: 0.884944
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1911392
Amount: 0.914020
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:05:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

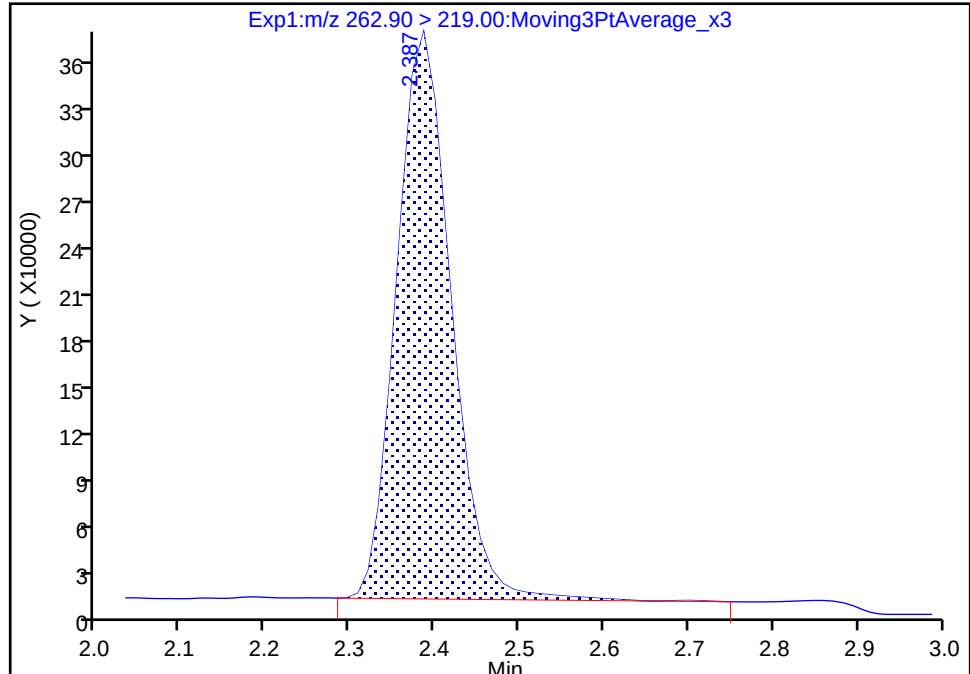
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

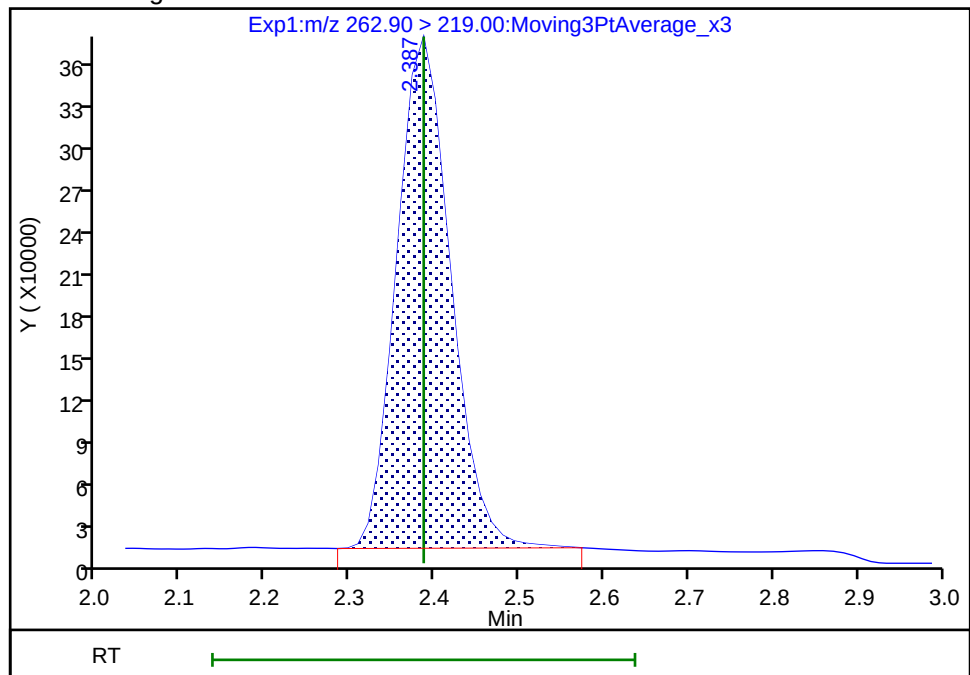
RT: 2.39
Area: 1625686
Amount: 0.903106
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1602160
Amount: 0.929116
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:05:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

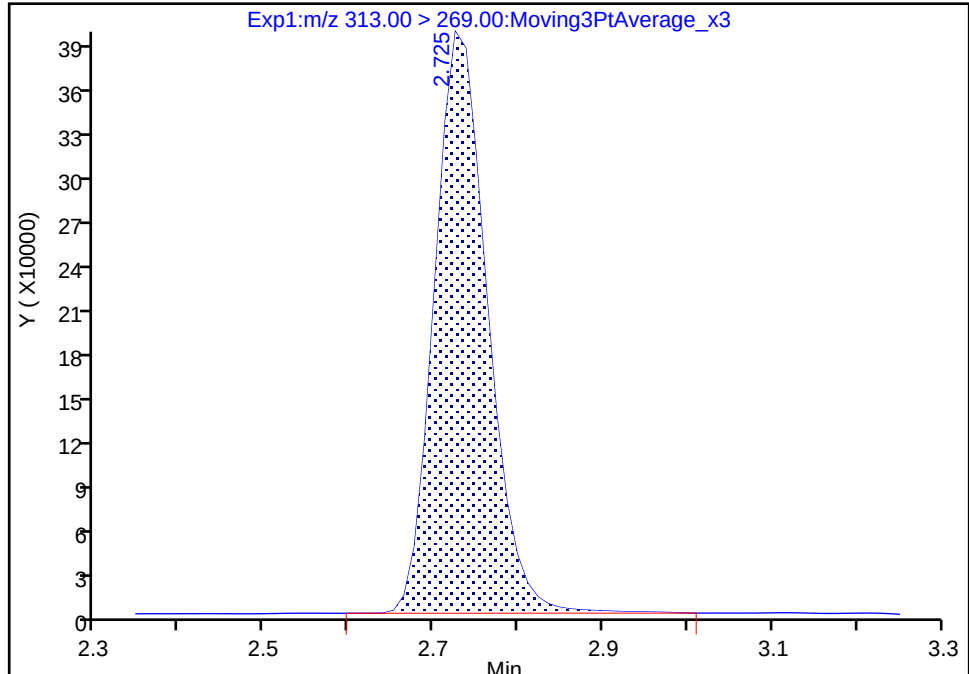
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

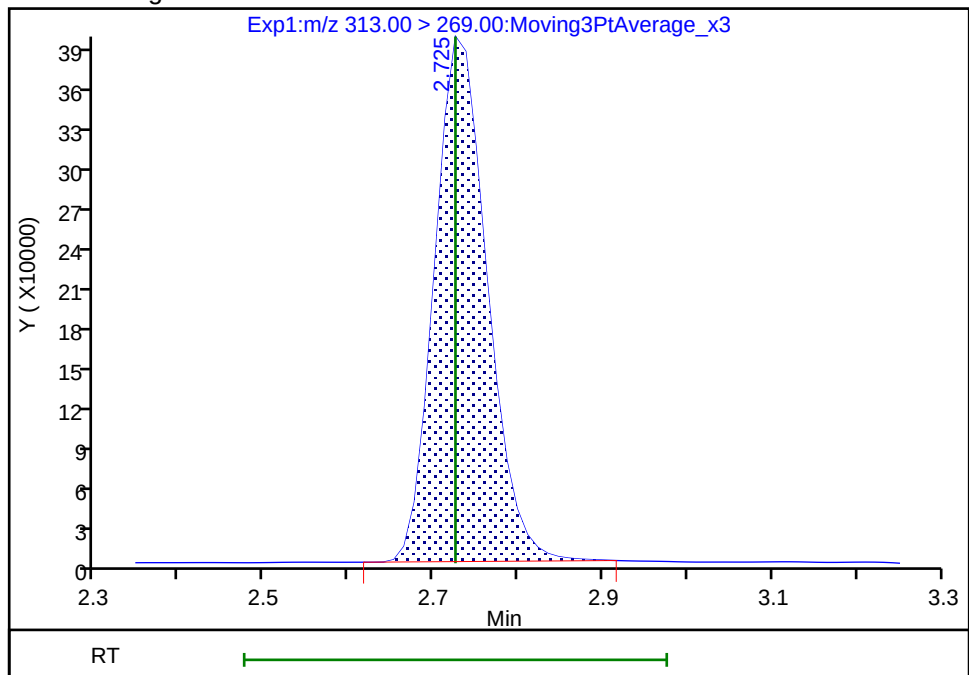
RT: 2.73
Area: 1717760
Amount: 0.925315
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1703495
Amount: 0.950815
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

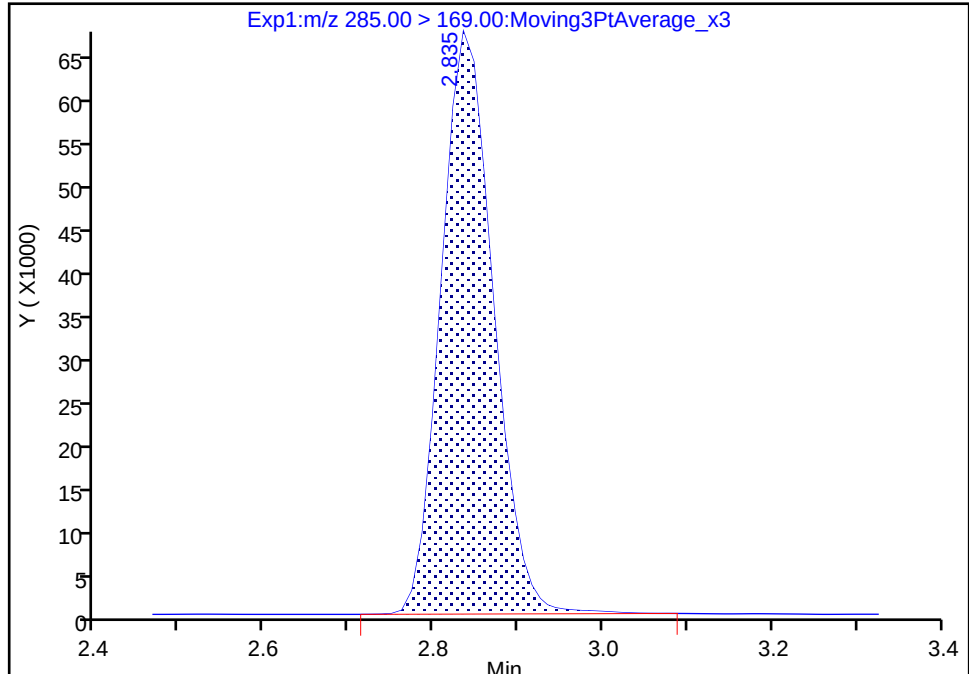
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

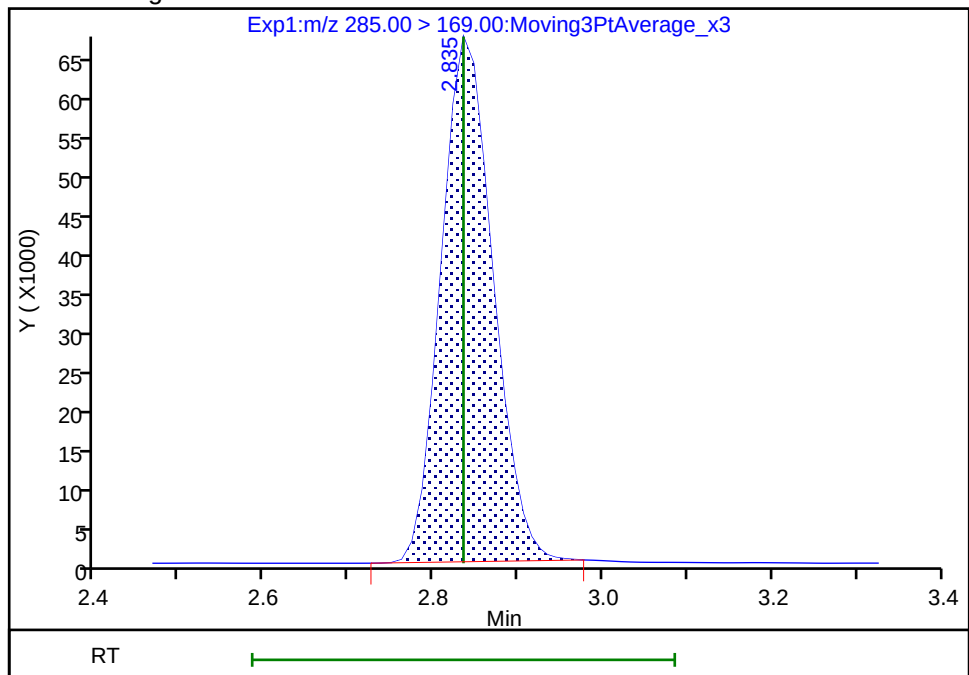
RT: 2.83
Area: 290381
Amount: 0.890585
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 286947
Amount: 0.910963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

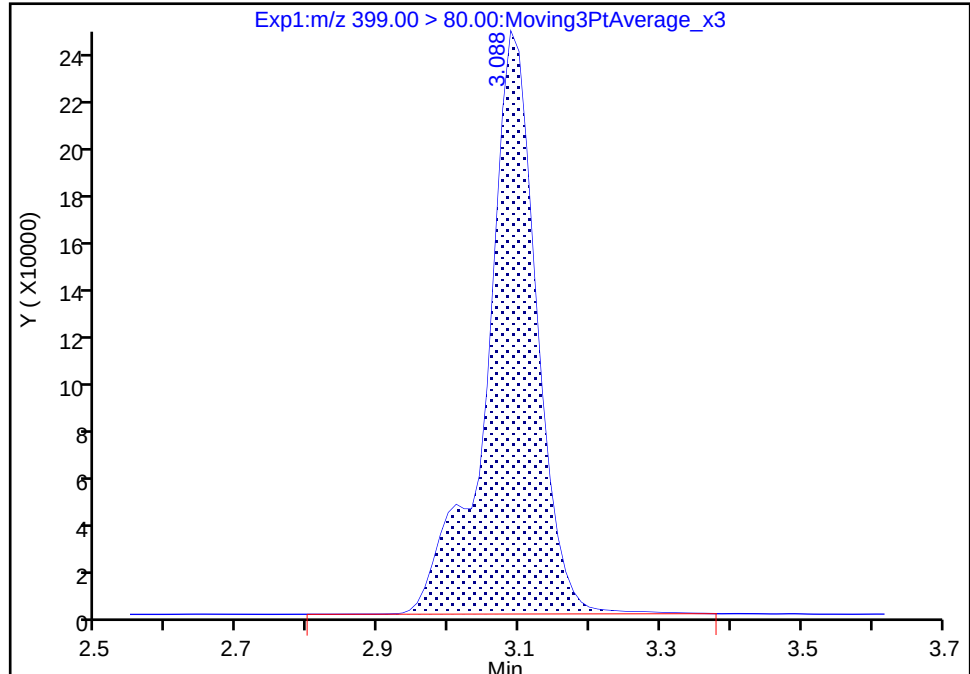
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

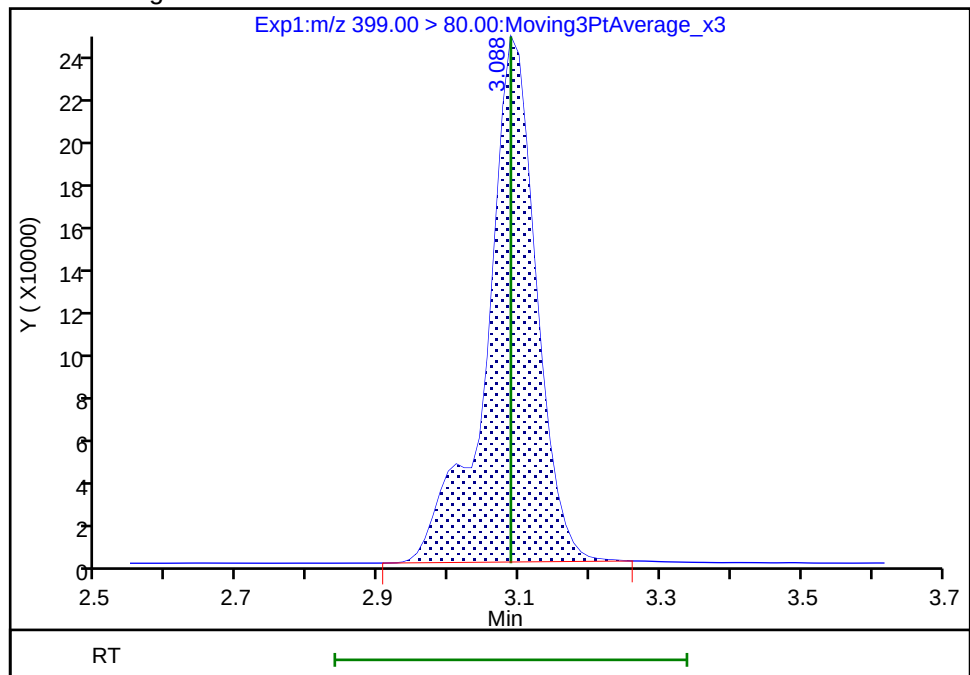
RT: 3.09
Area: 1192403
Amount: 0.844733
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1180858
Amount: 0.853808
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

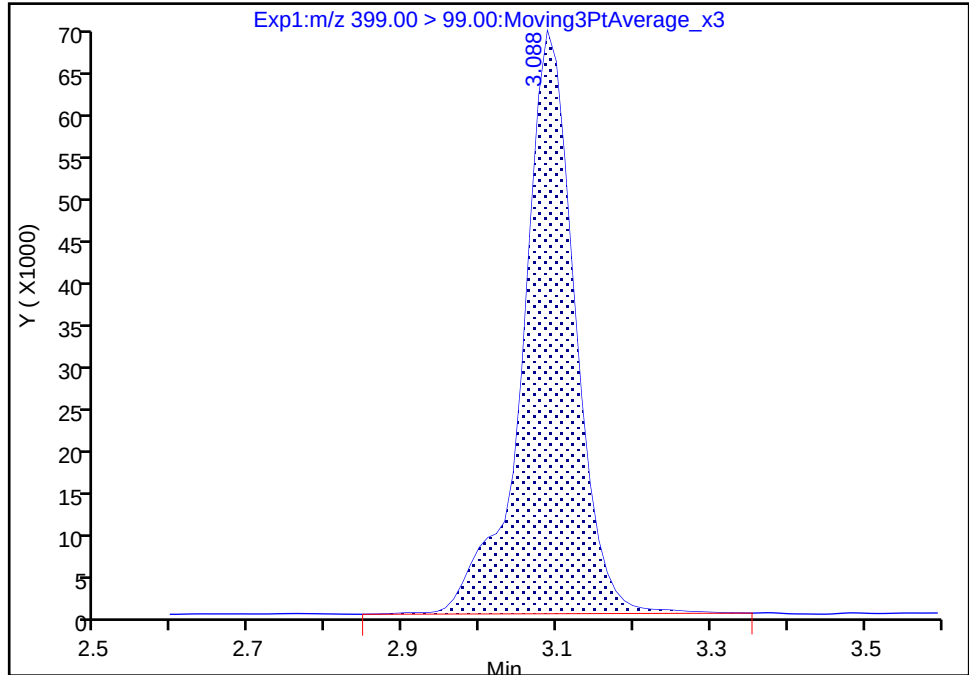
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

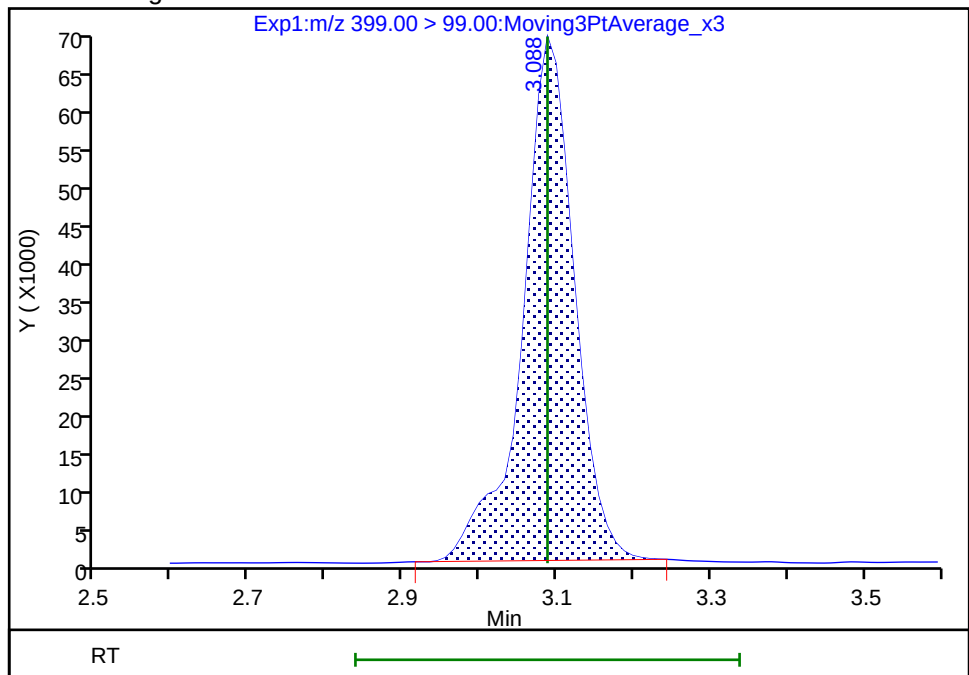
RT: 3.09
Area: 329620
Amount: 0.844733
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 322894
Amount: 0.853808
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

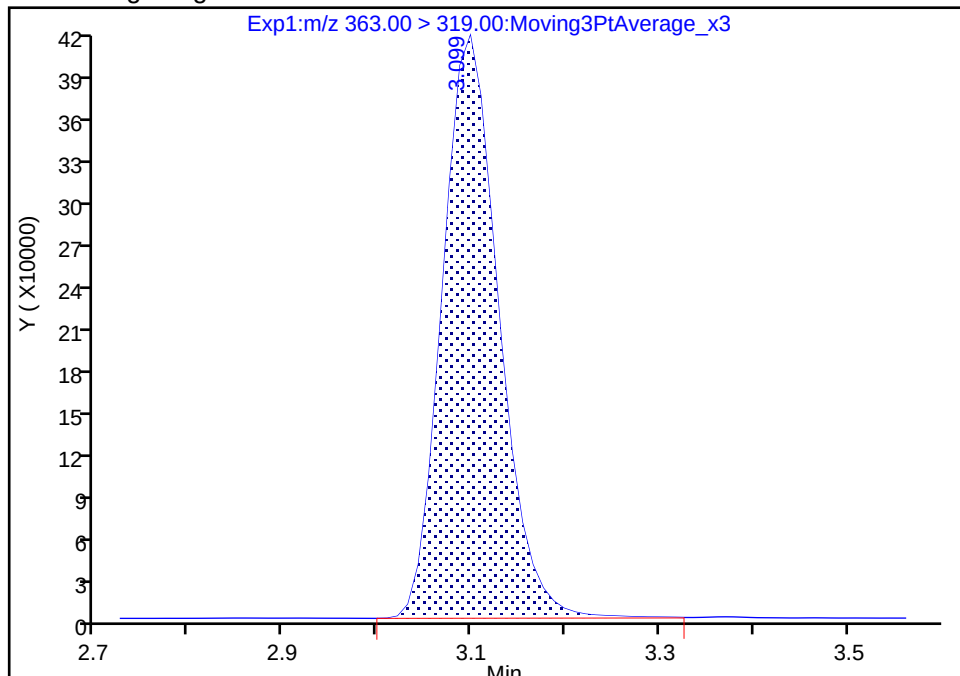
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

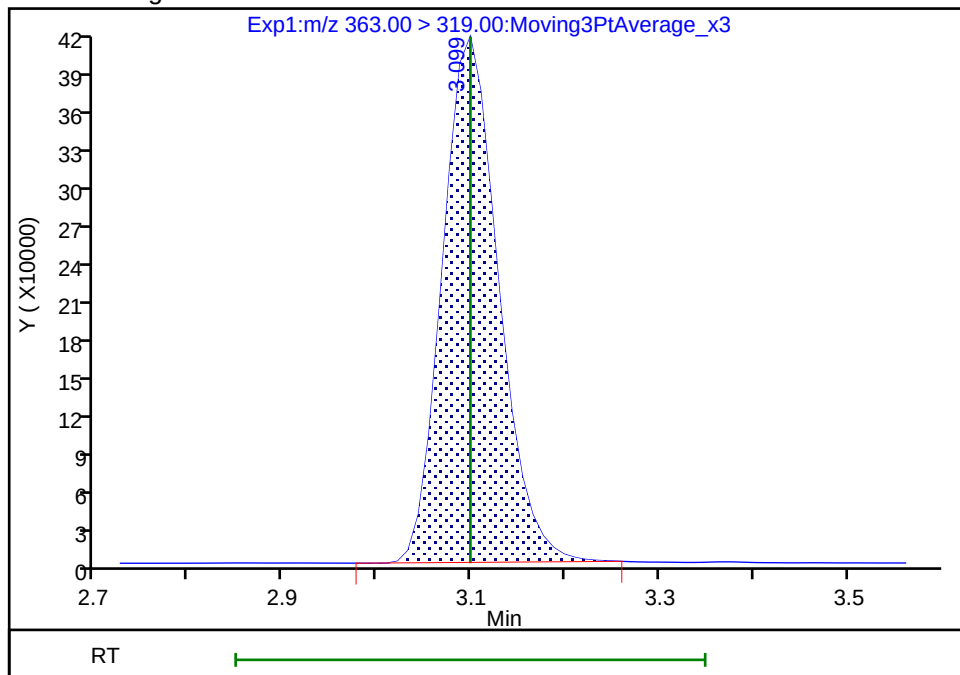
RT: 3.10
Area: 1732207
Amount: 0.896761
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1718424
Amount: 0.929257
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

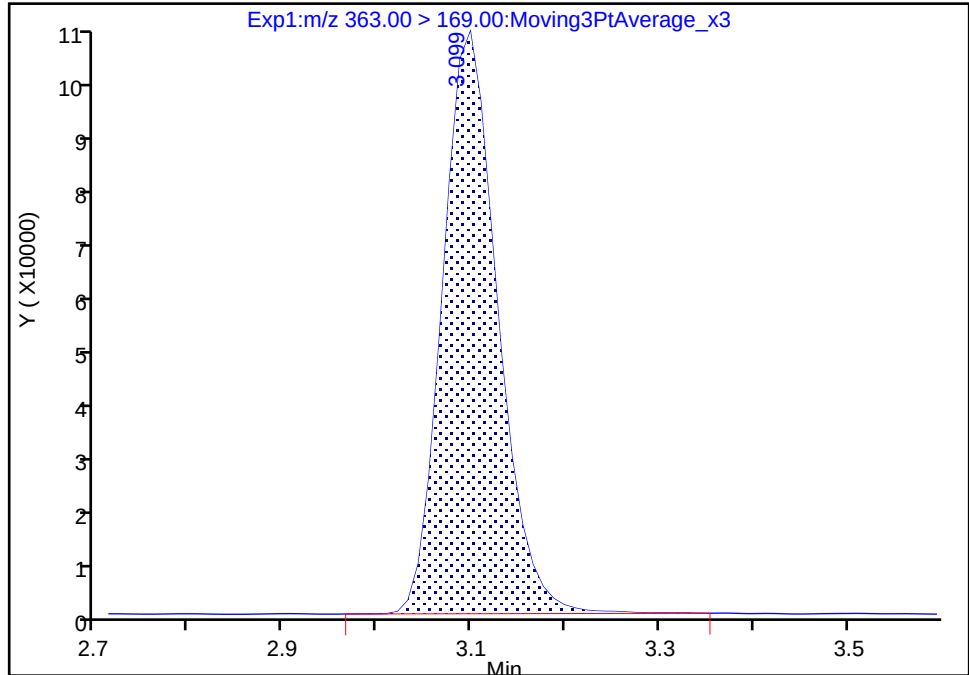
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

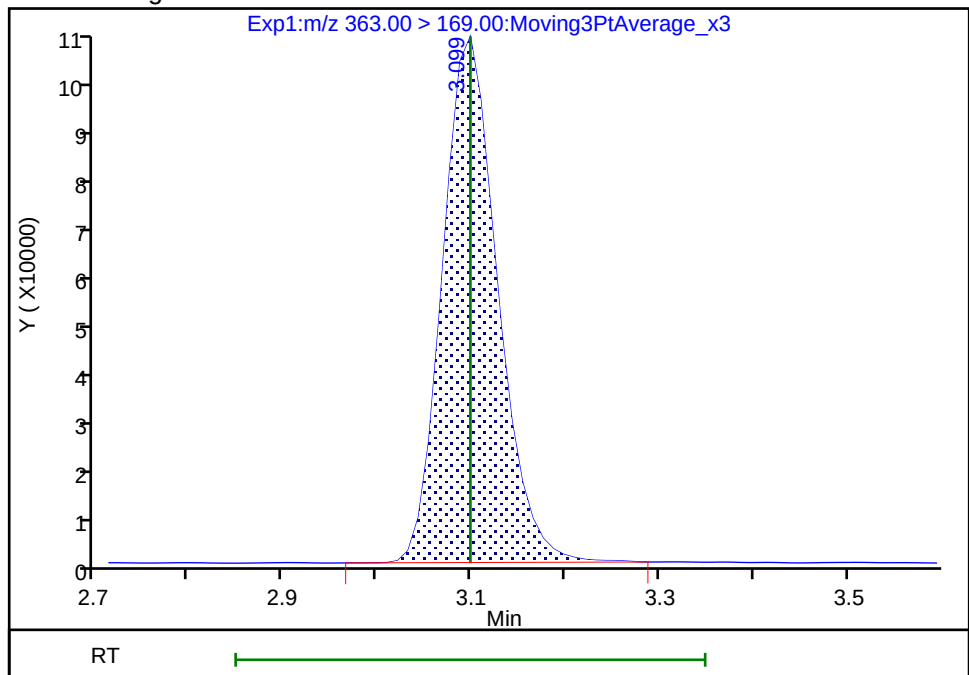
RT: 3.10
Area: 434169
Amount: 0.896761
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 433271
Amount: 0.929257
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

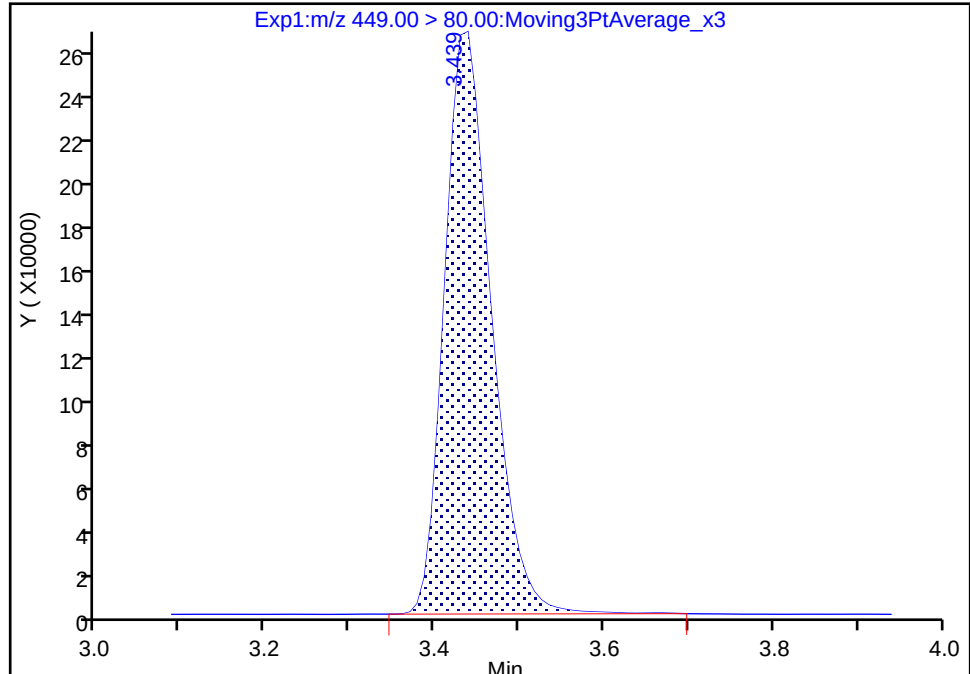
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

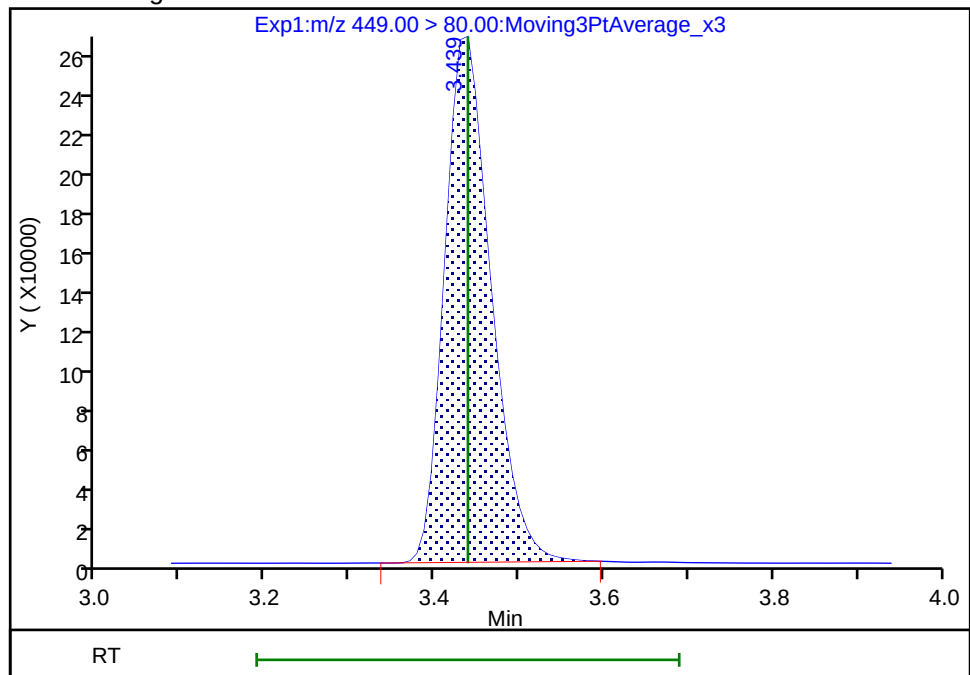
RT: 3.44
Area: 1029711
Amount: 0.878234
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1021904
Amount: 0.903742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

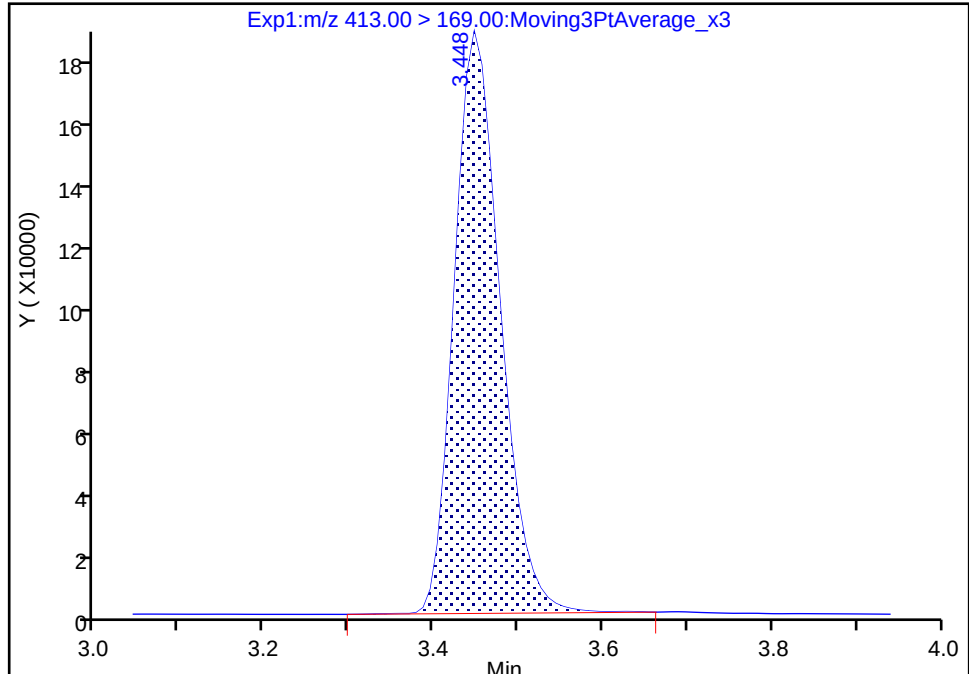
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

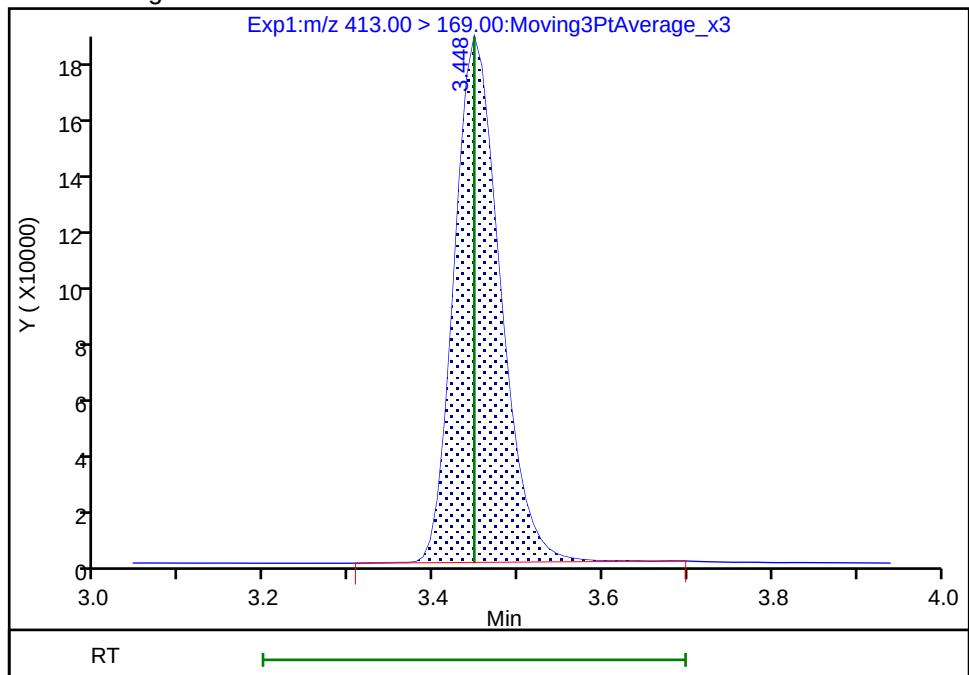
RT: 3.45
Area: 697013
Amount: 0.942395
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 696928
Amount: 0.971476
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

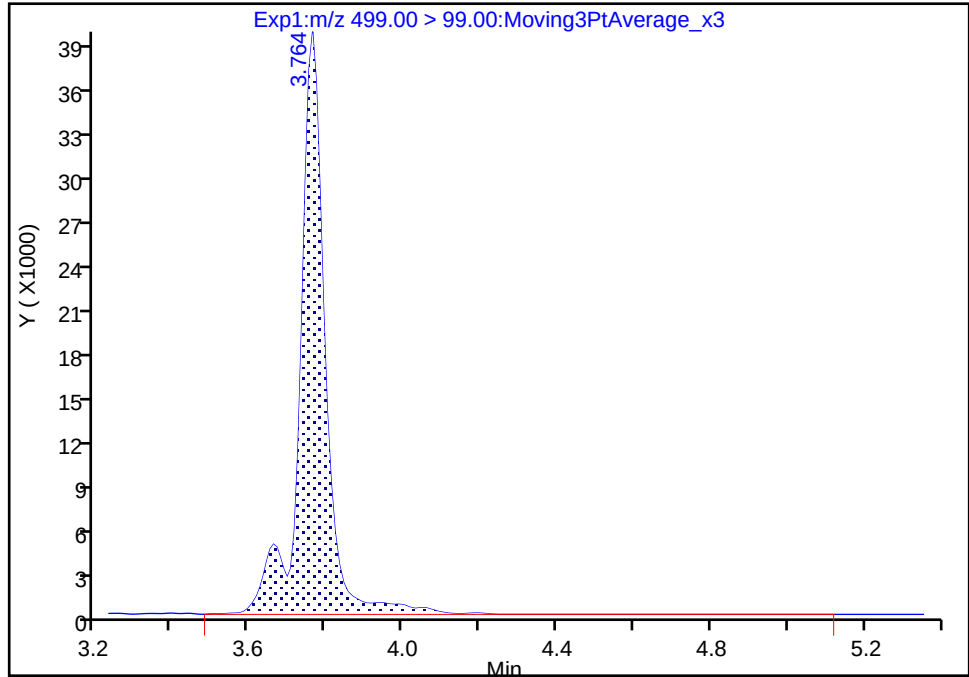
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

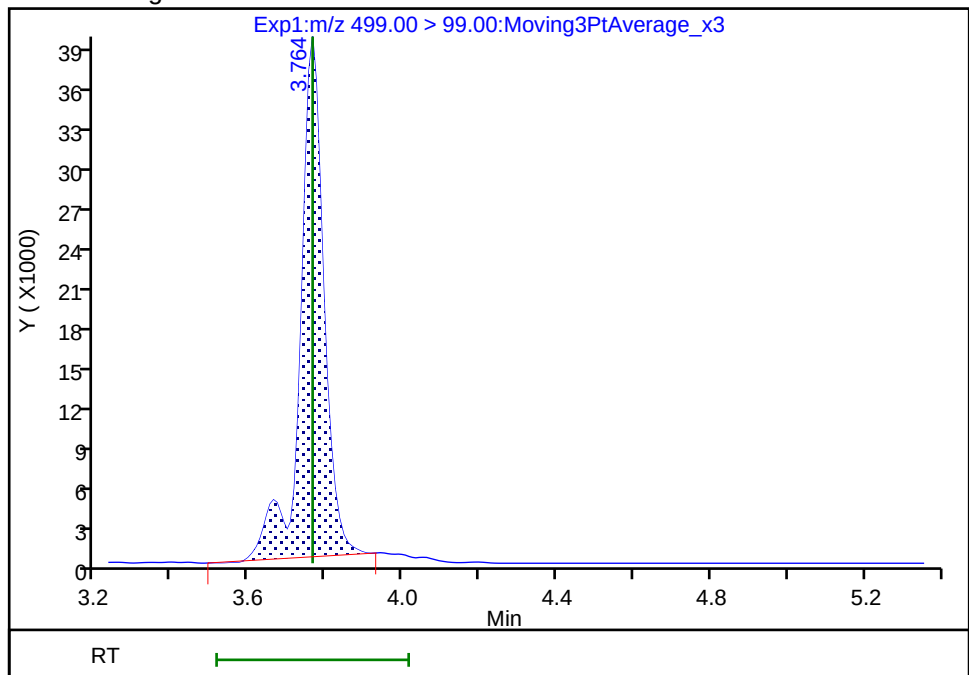
RT: 3.76
Area: 184243
Amount: 0.869089
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 167691
Amount: 0.869962
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

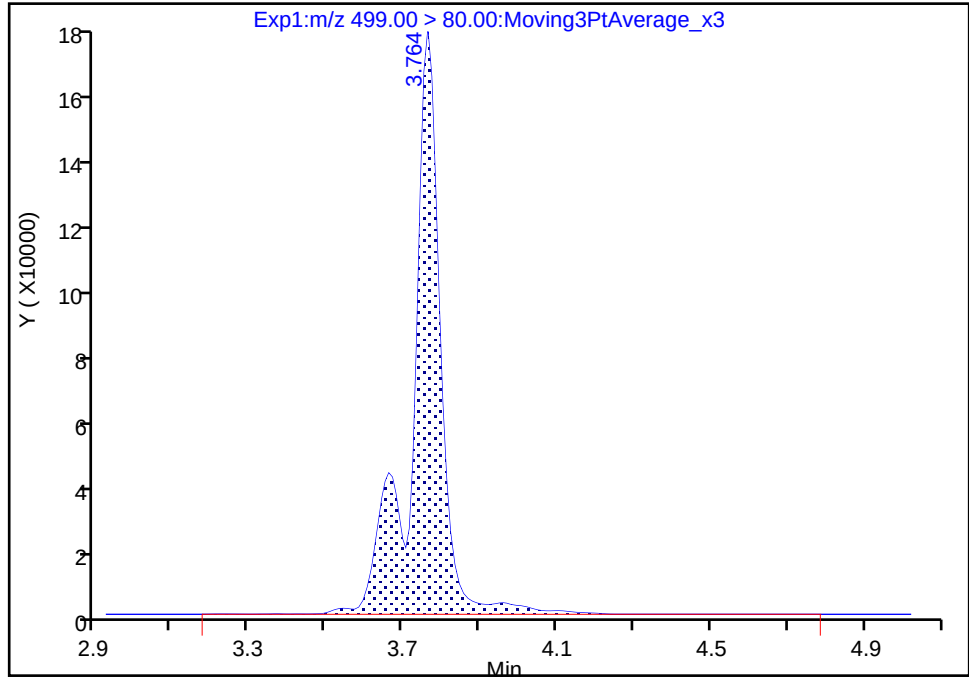
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

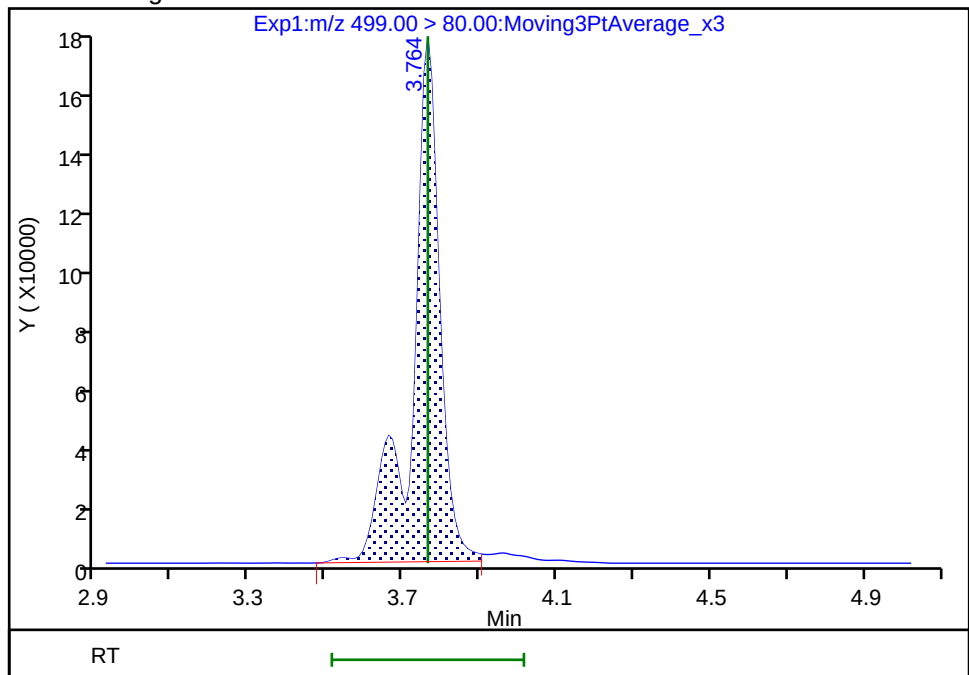
RT: 3.76
Area: 896764
Amount: 0.869089
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 856526
Amount: 0.869962
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

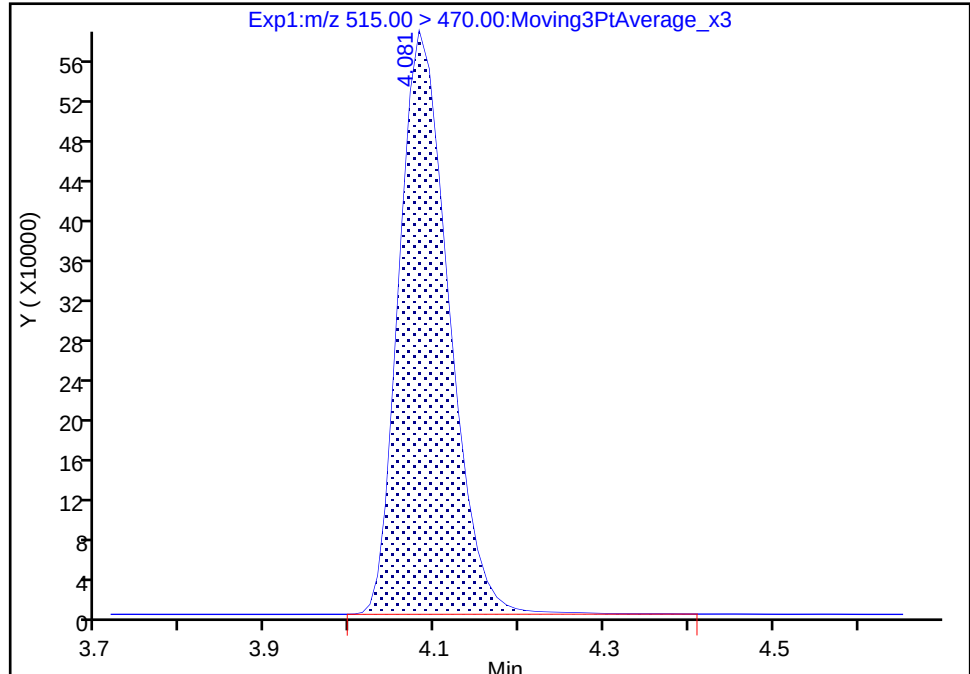
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

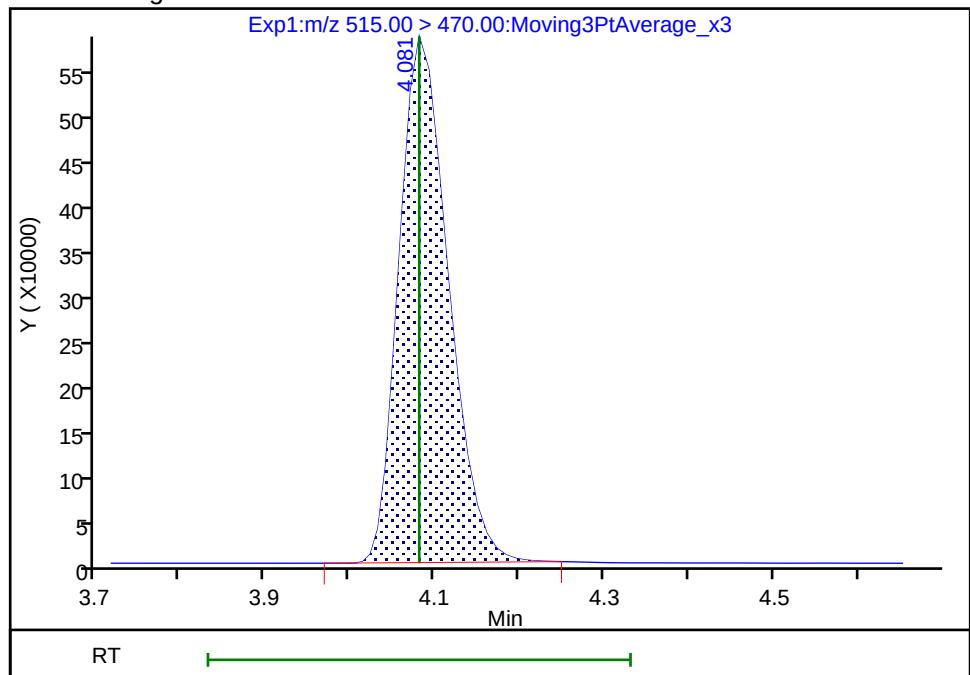
RT: 4.08
Area: 2402943
Amount: 1.278353
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2384612
Amount: 1.249811
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

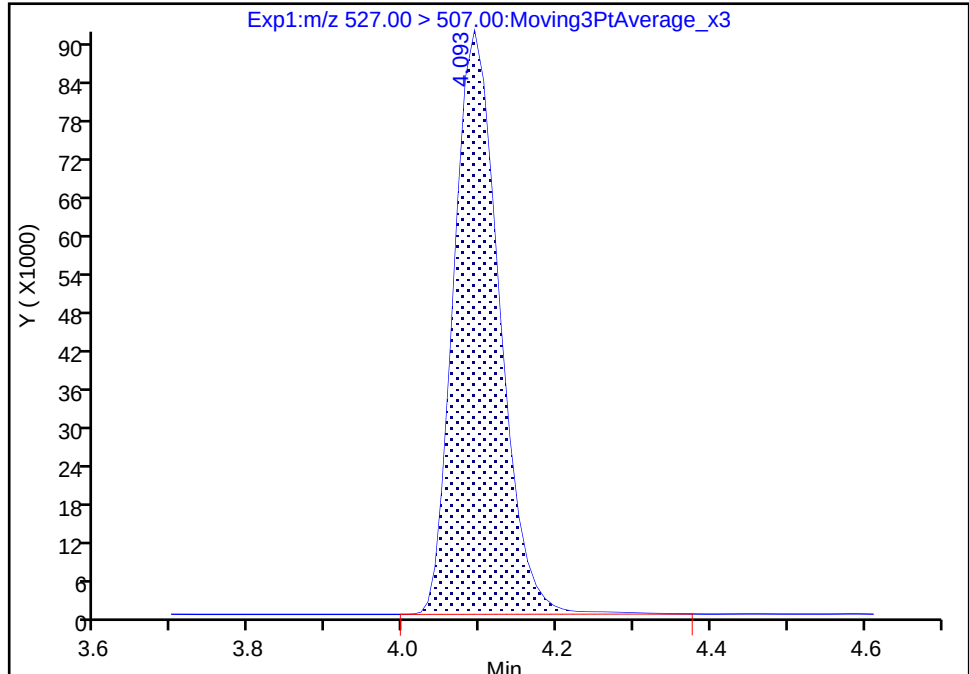
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

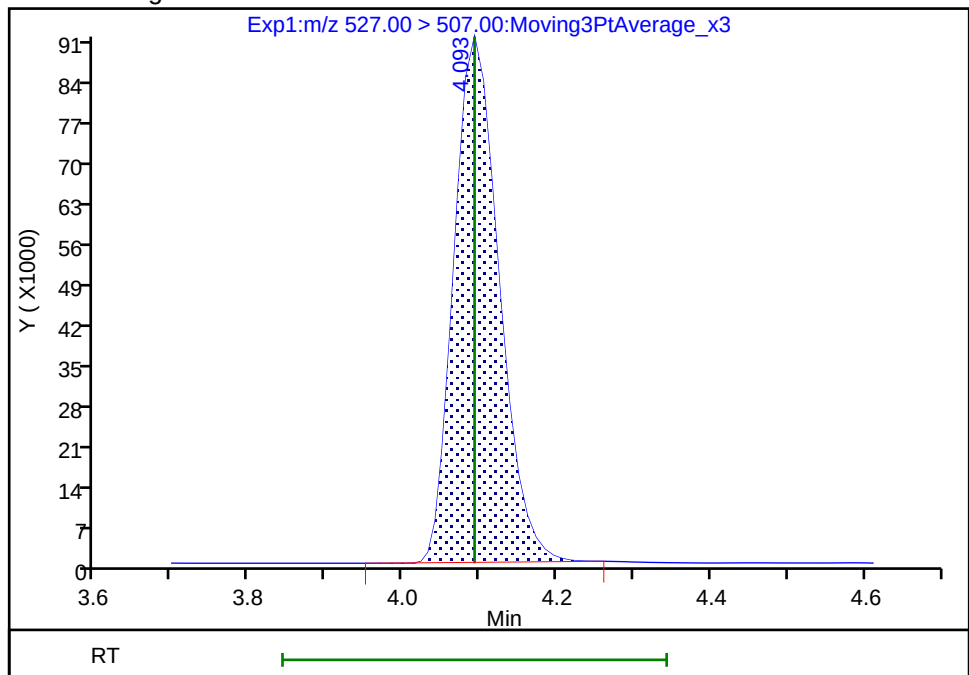
RT: 4.09
Area: 374620
Amount: 0.906768
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 370895
Amount: 0.914804
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

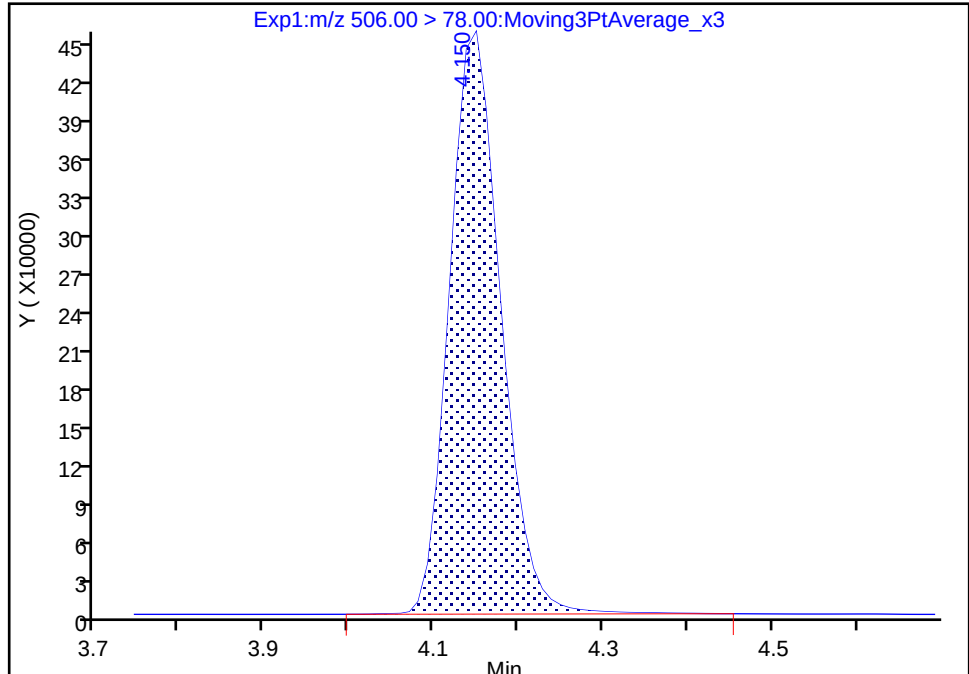
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

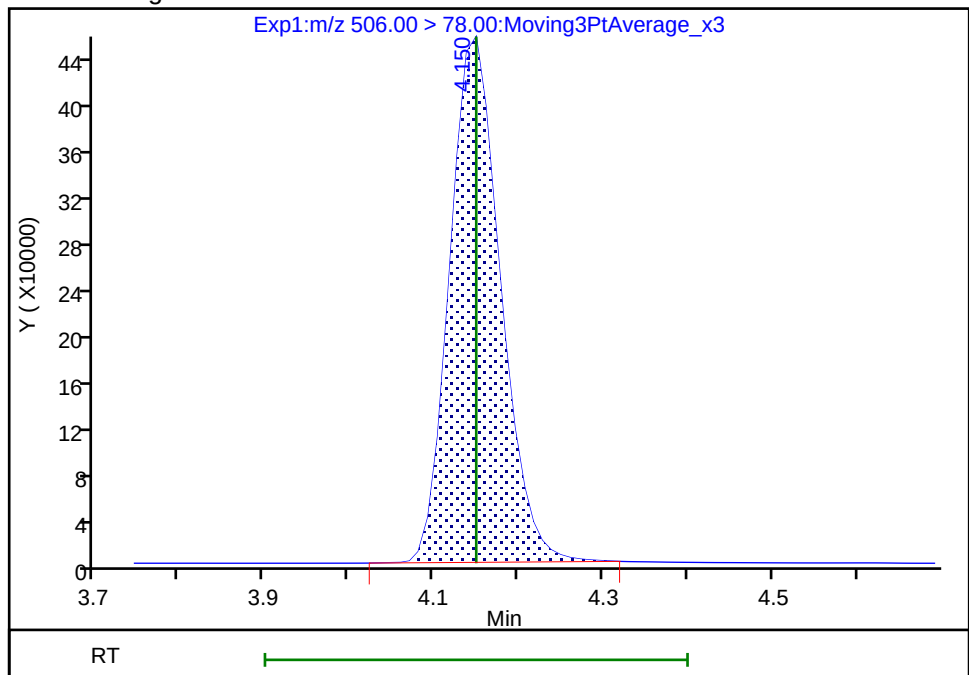
RT: 4.15
Area: 1894765
Amount: 1.237228
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1879604
Amount: 1.201614
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

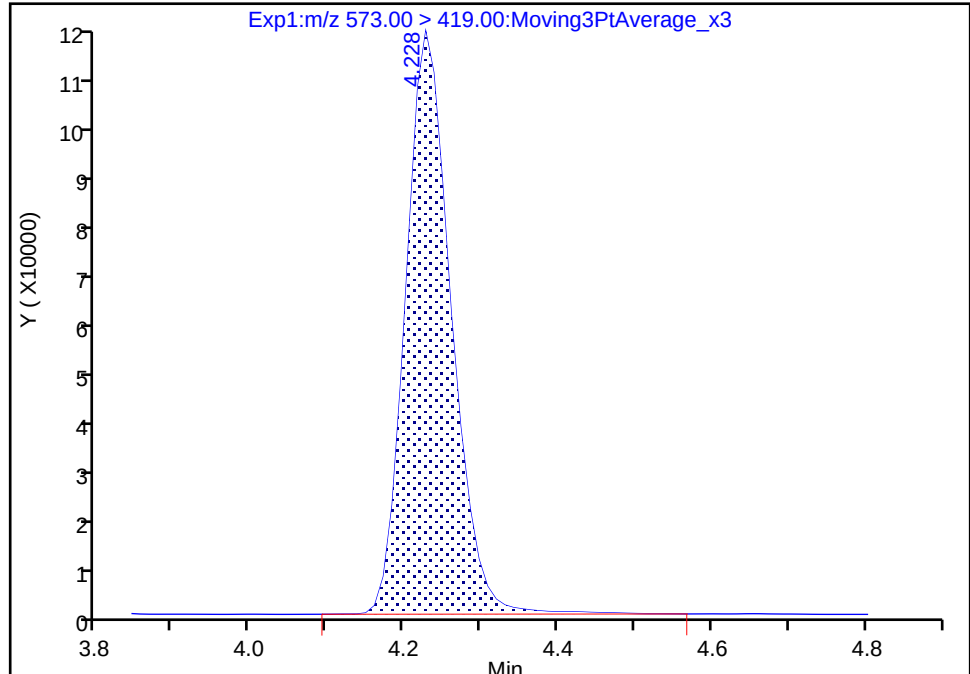
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

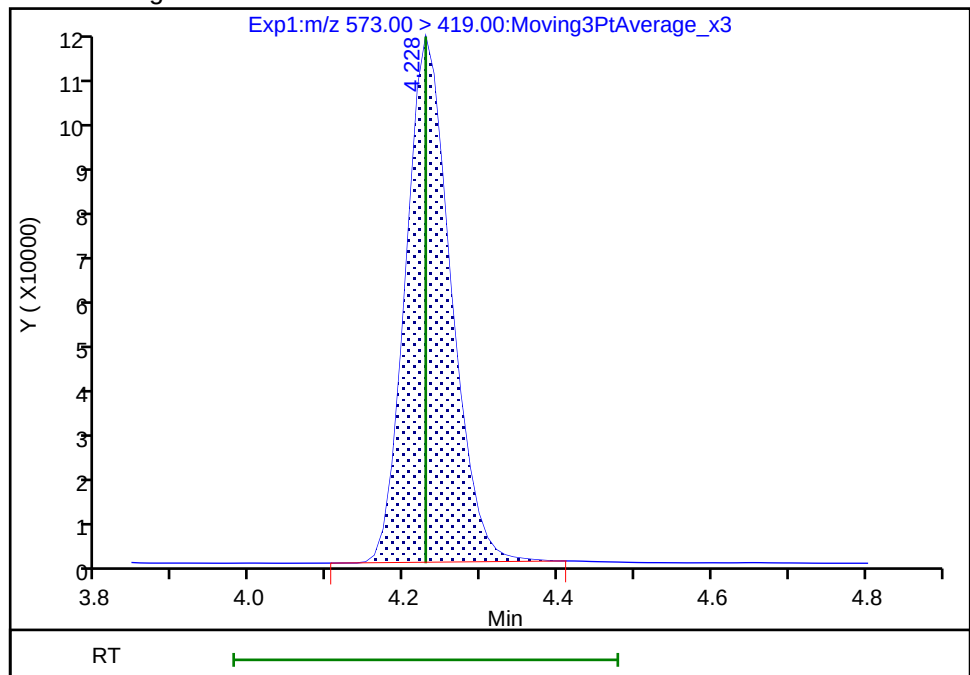
RT: 4.23
Area: 475916
Amount: 1.264715
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 470154
Amount: 1.210231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

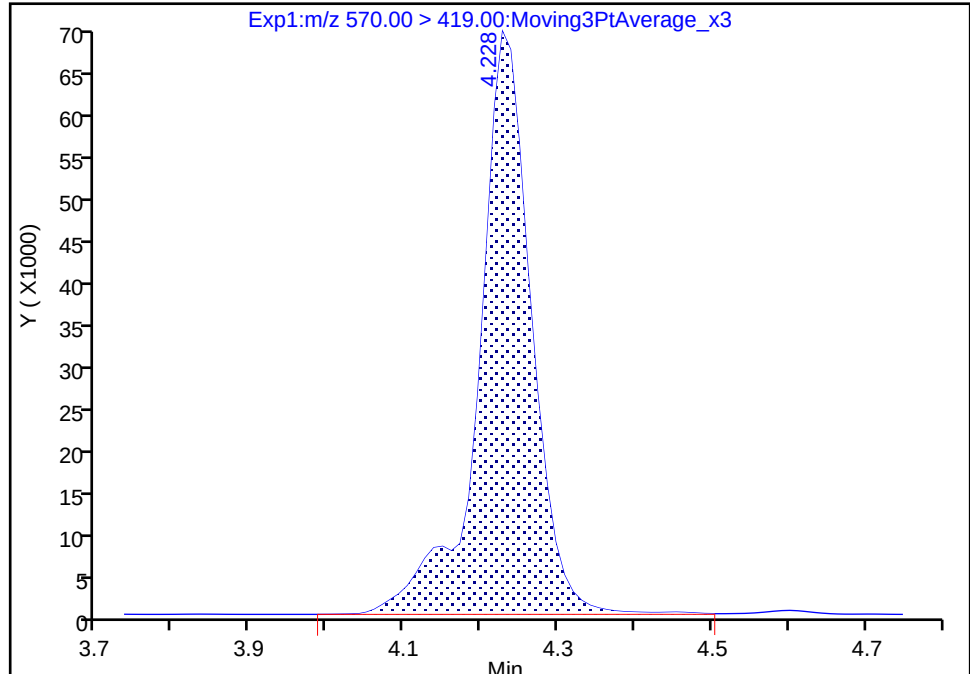
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

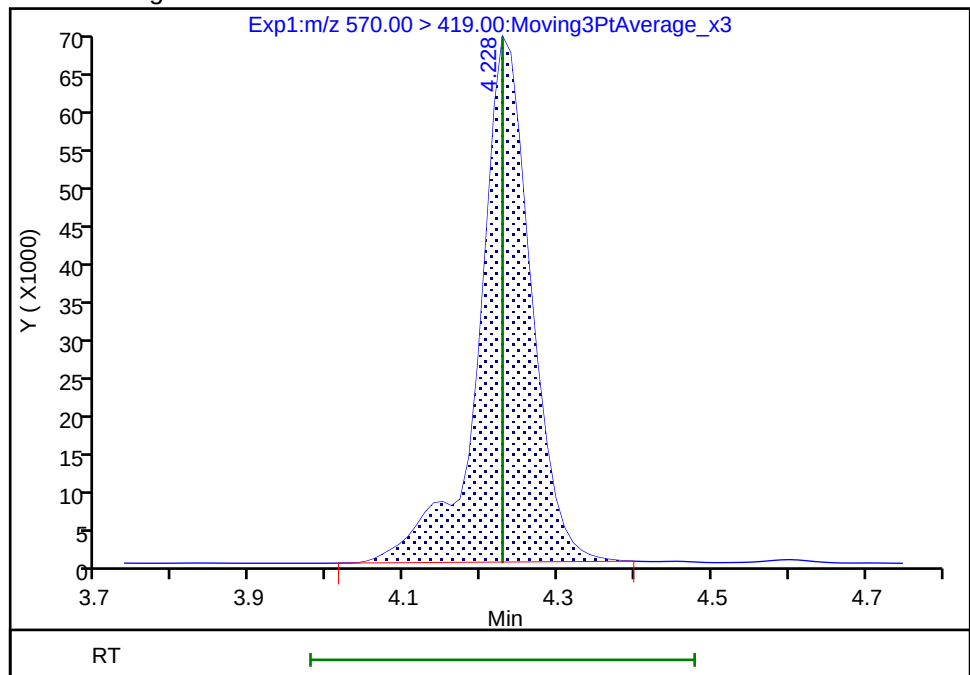
RT: 4.23
Area: 329390
Amount: 0.922352
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 324897
Amount: 0.992512
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

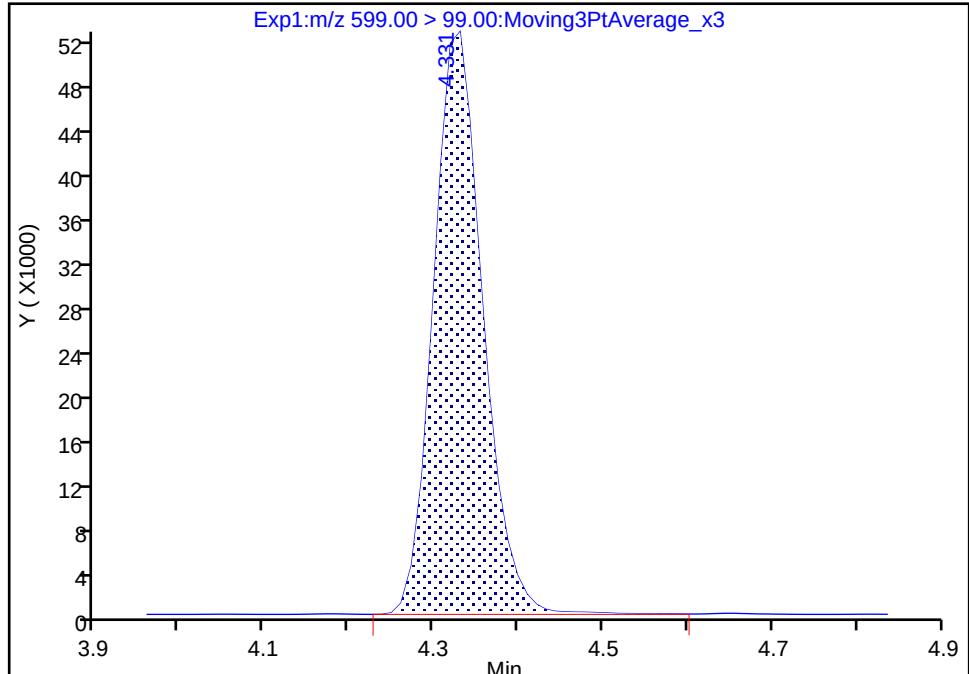
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

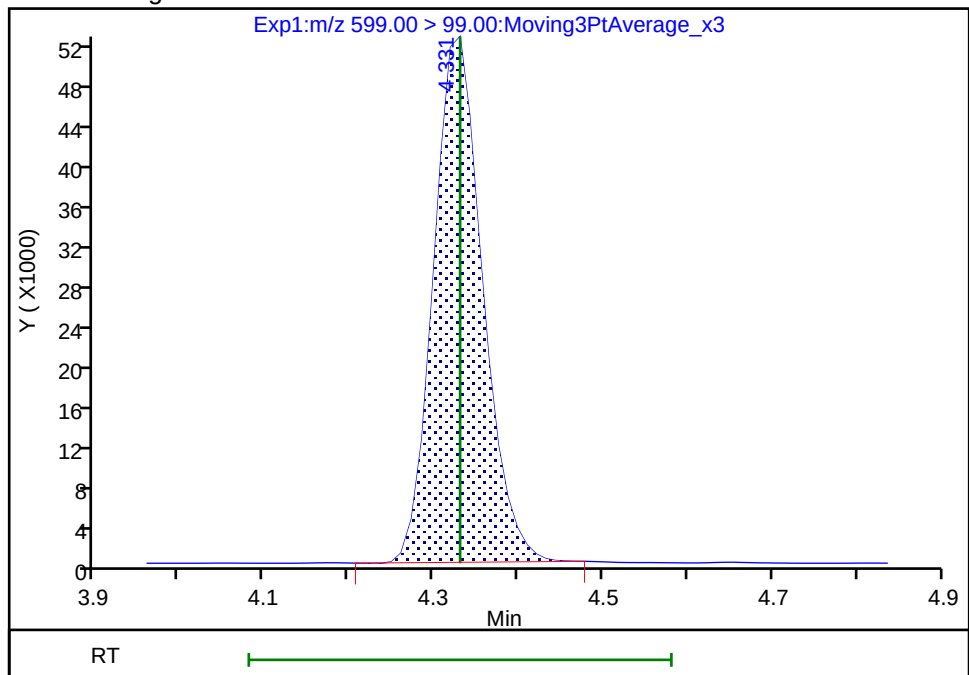
RT: 4.33
Area: 213157
Amount: 0.885111
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 210859
Amount: 0.900485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

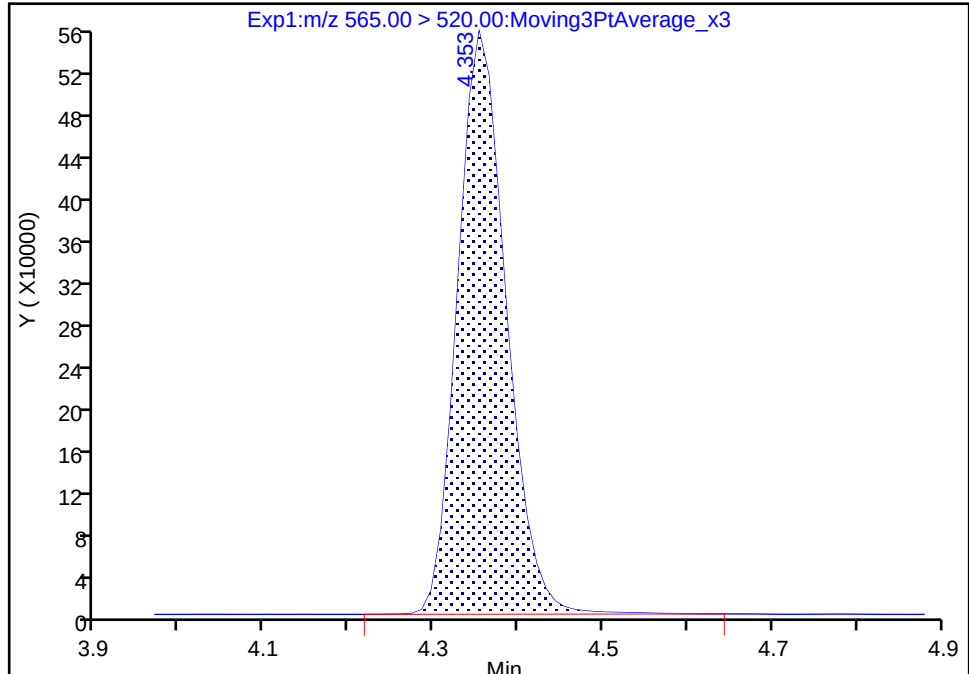
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

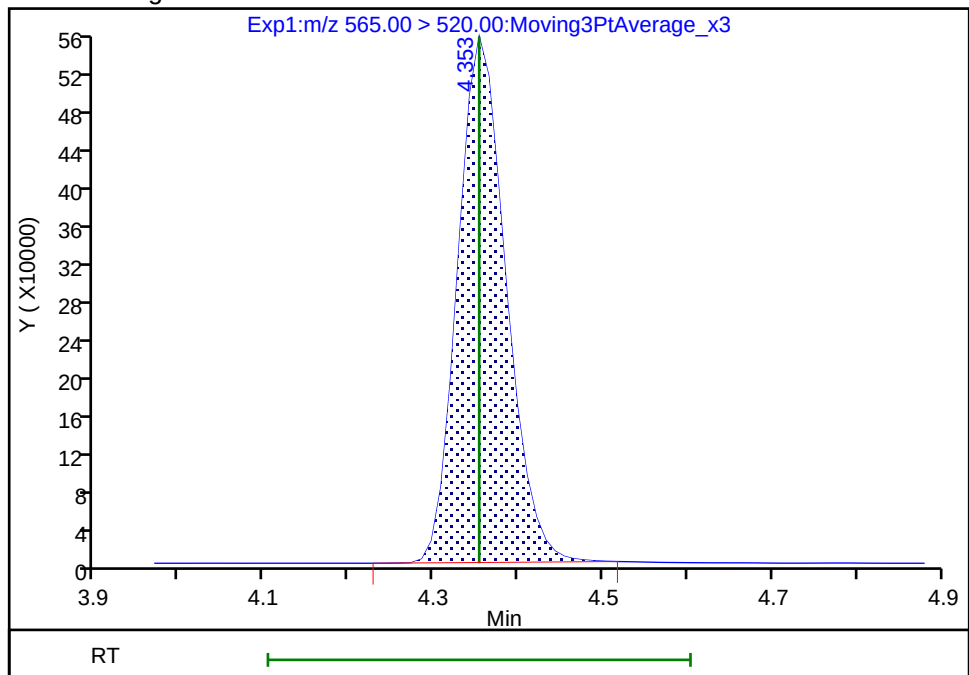
RT: 4.35
Area: 2200966
Amount: 1.263353
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2183949
Amount: 1.250019
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

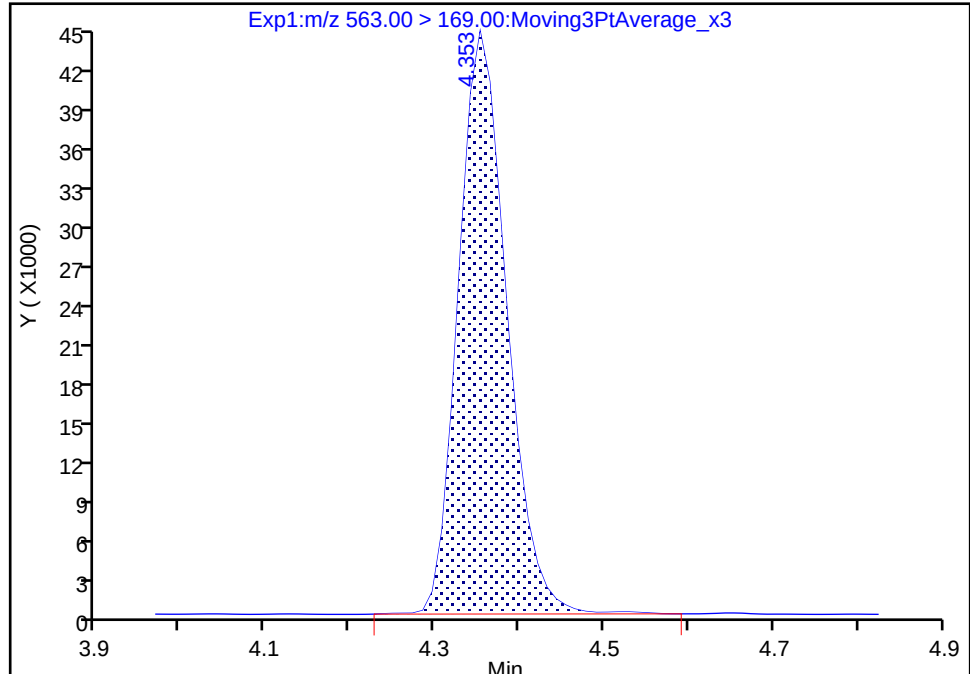
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

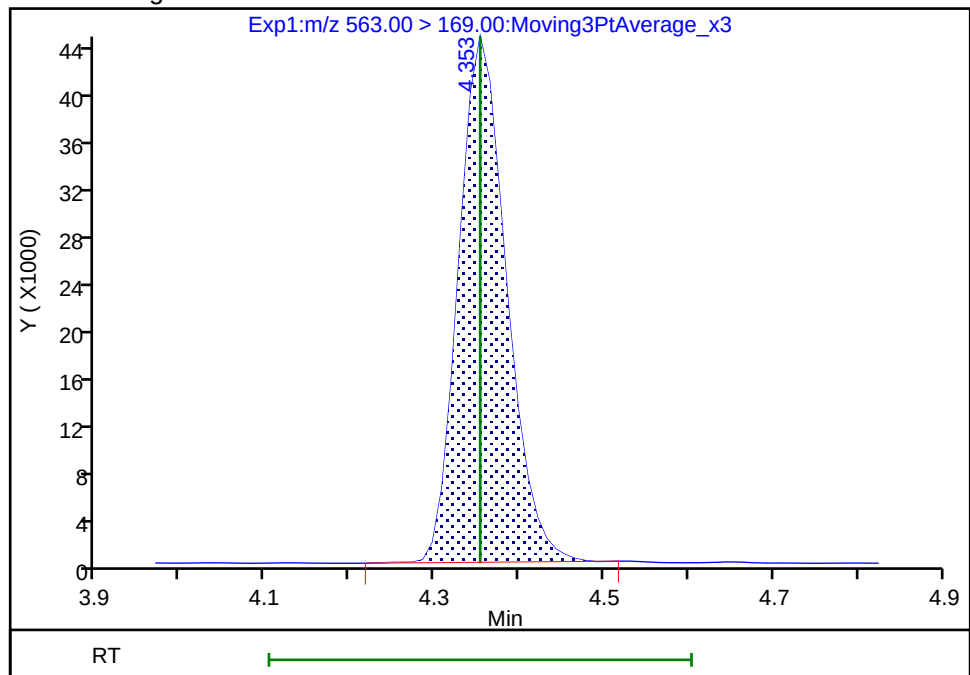
RT: 4.35
Area: 174513
Amount: 0.928435
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 173100
Amount: 0.971351
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

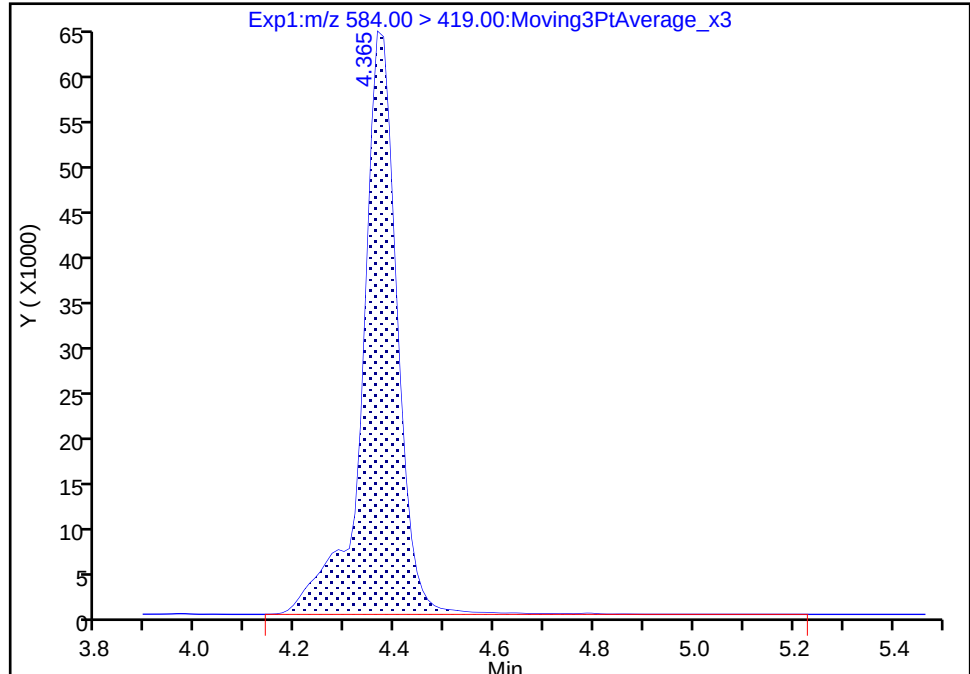
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

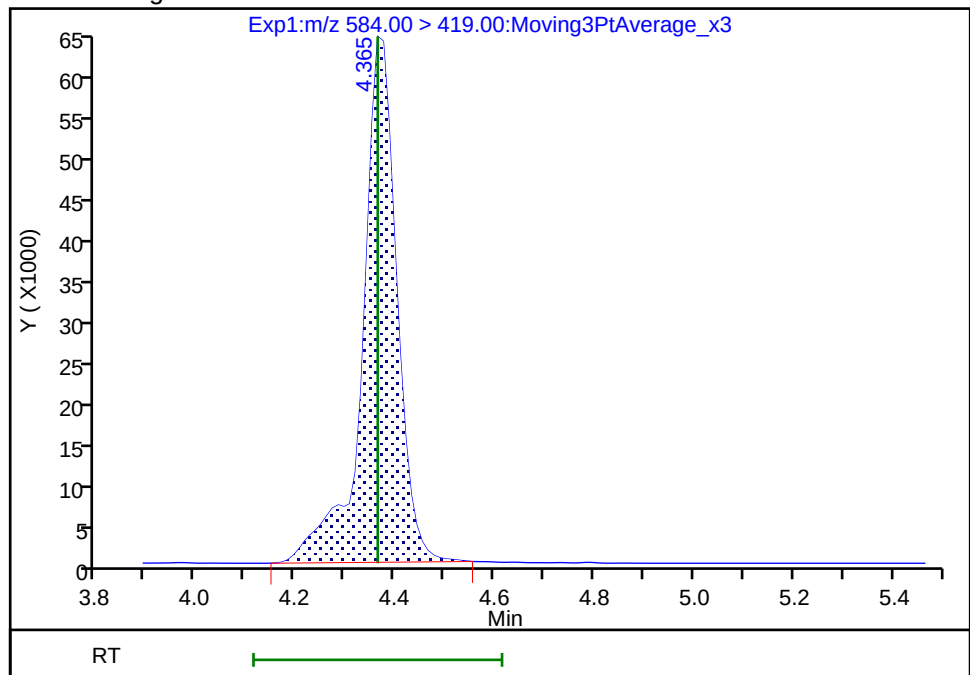
RT: 4.36
Area: 315423
Amount: 0.928970
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 311108
Amount: 0.943580
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

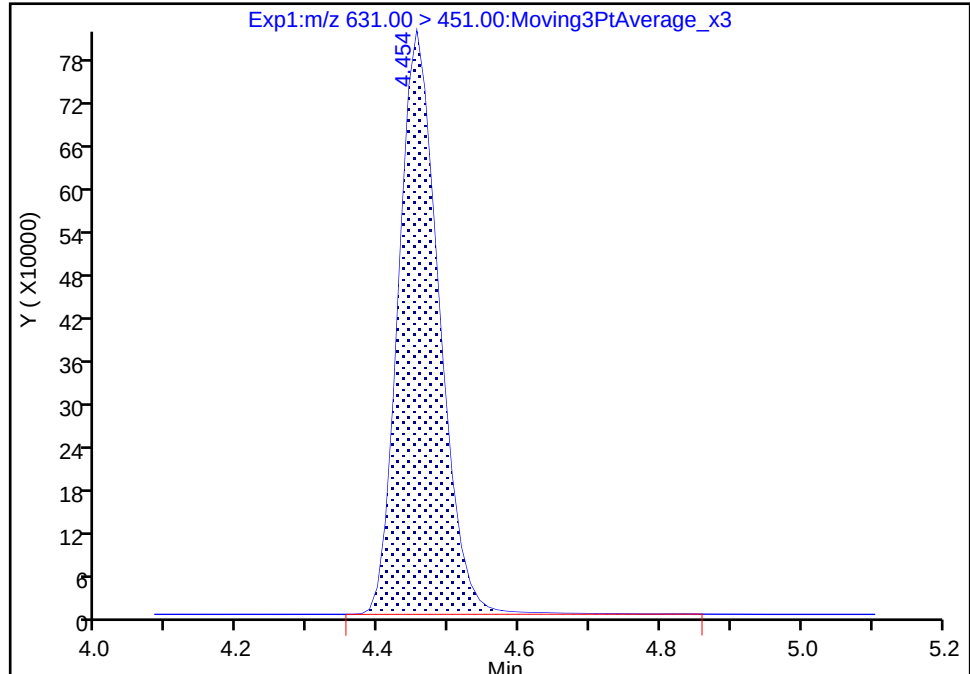
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

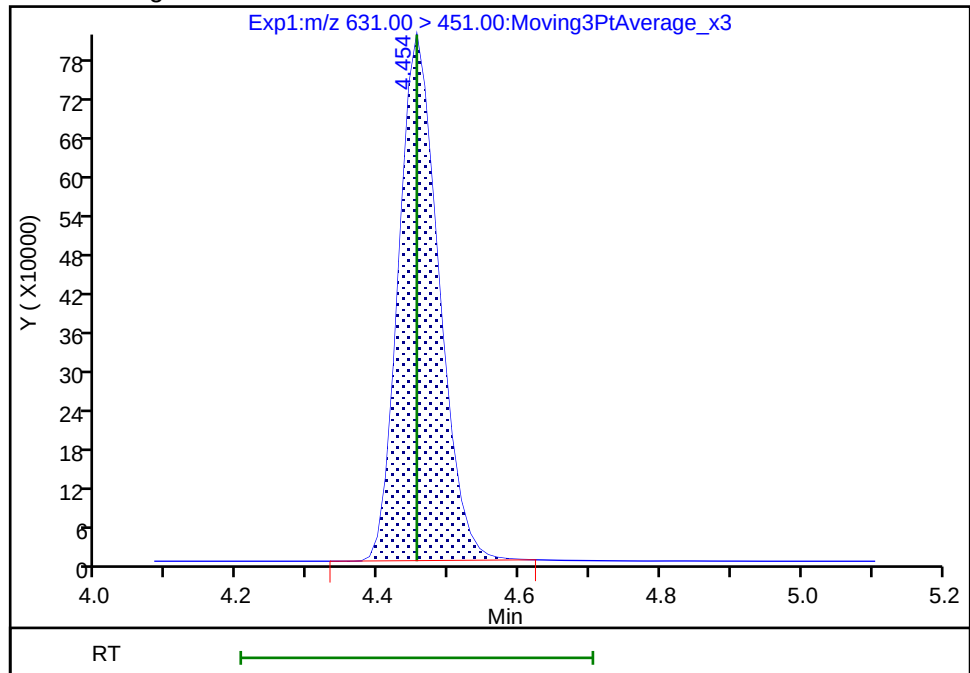
RT: 4.45
Area: 3251099
Amount: 0.891288
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 3224328
Amount: 0.925659
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

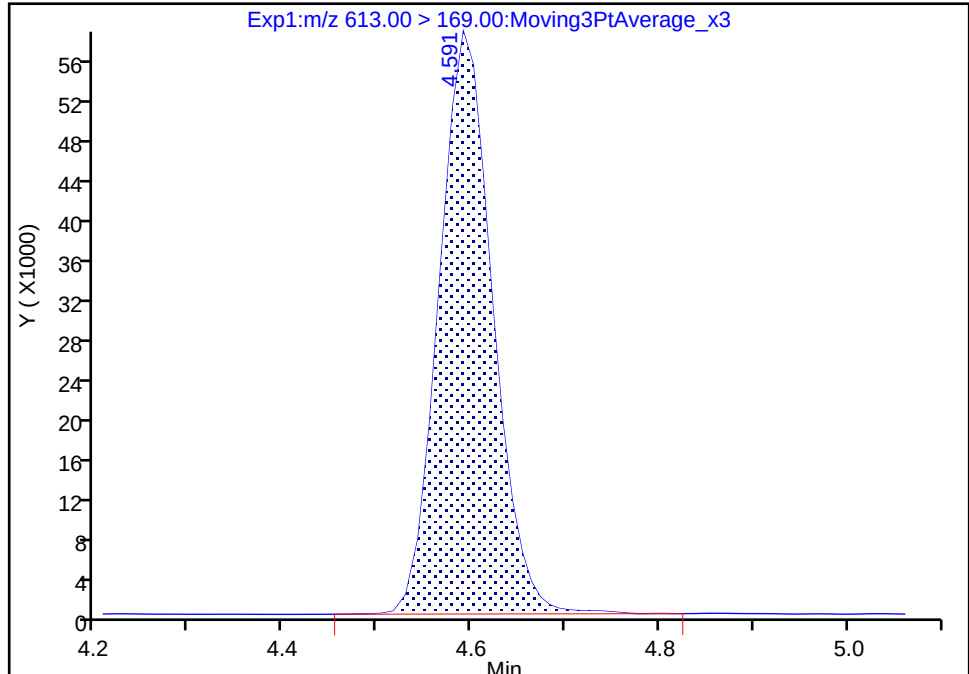
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

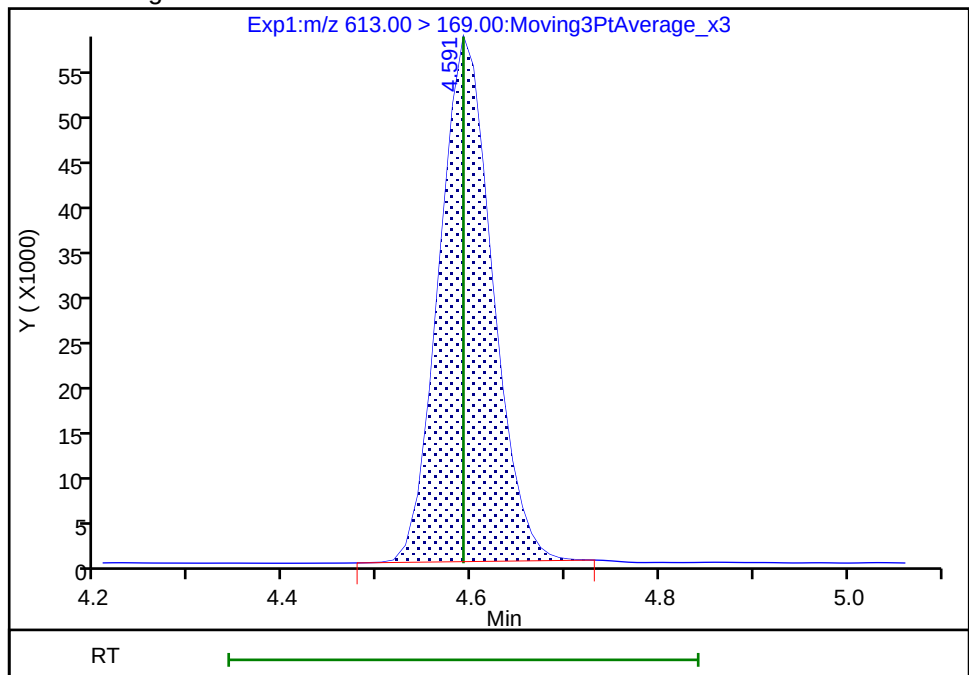
RT: 4.59
Area: 232486
Amount: 0.925204
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 229653
Amount: 0.974759
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

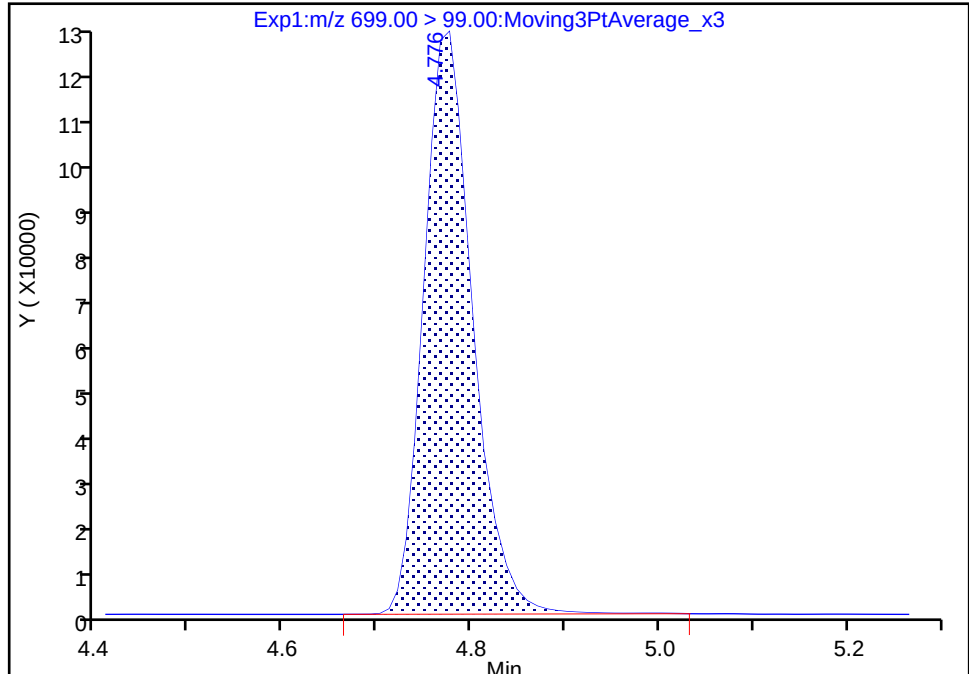
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

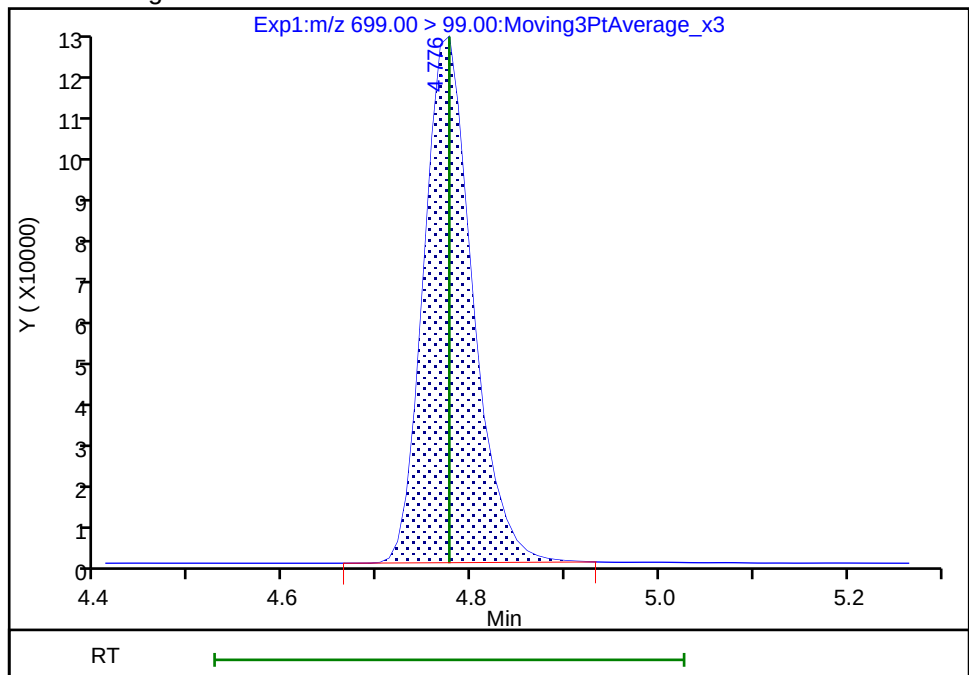
RT: 4.78
Area: 456526
Amount: 0.896225
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 454220
Amount: 0.922887
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

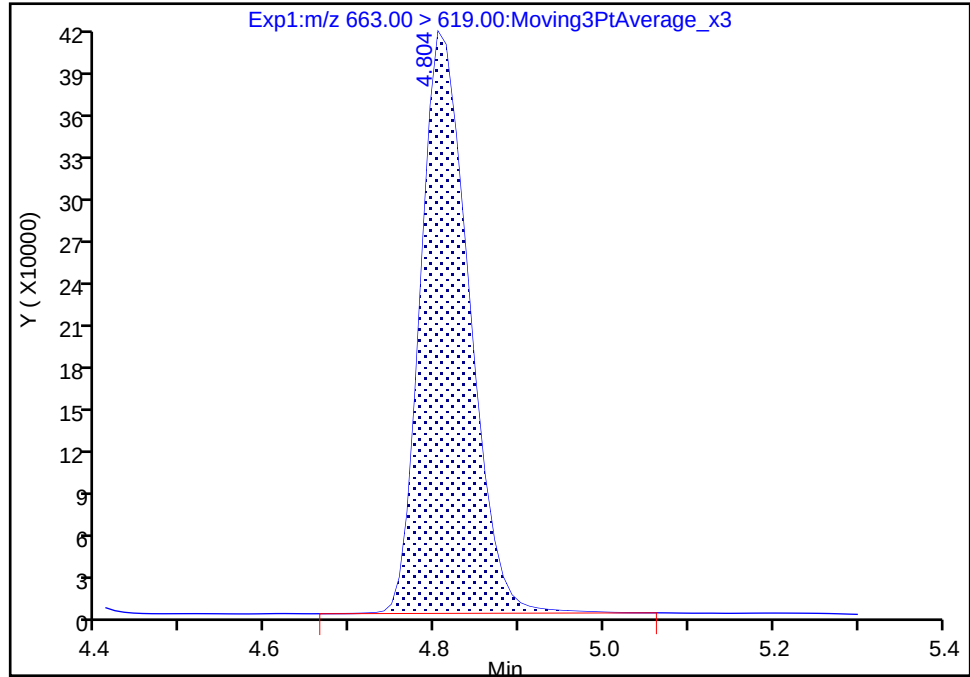
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

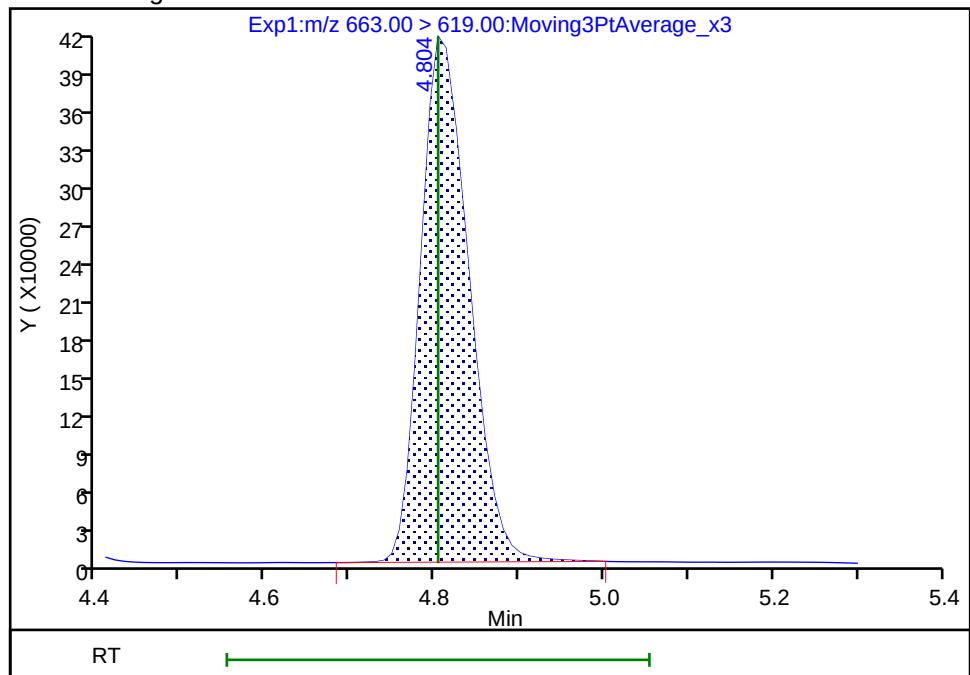
RT: 4.80
Area: 1636646
Amount: 0.895241
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1631703
Amount: 0.931504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

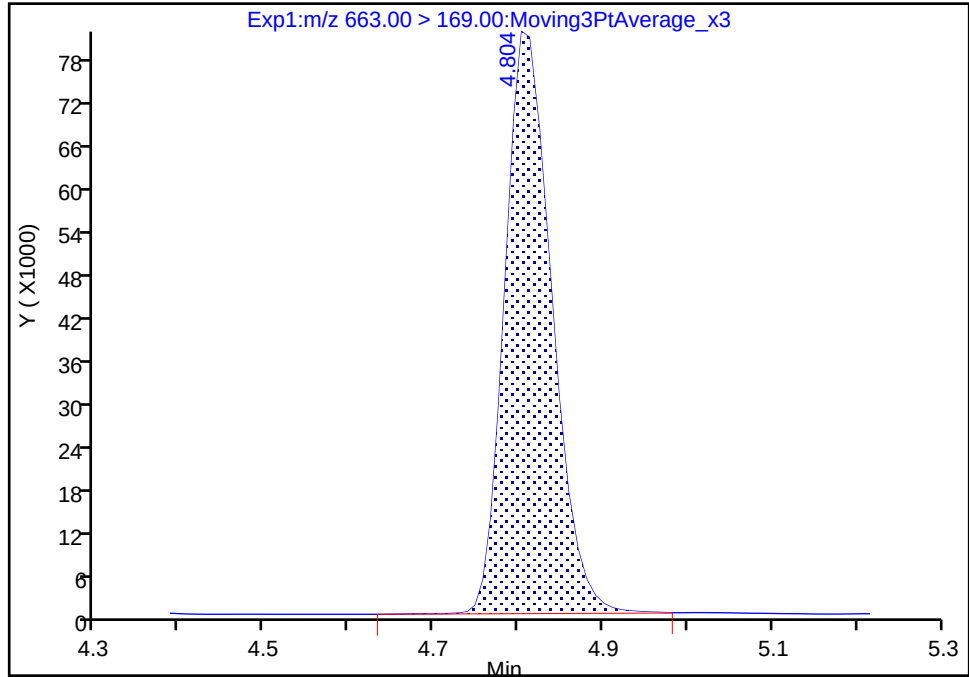
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

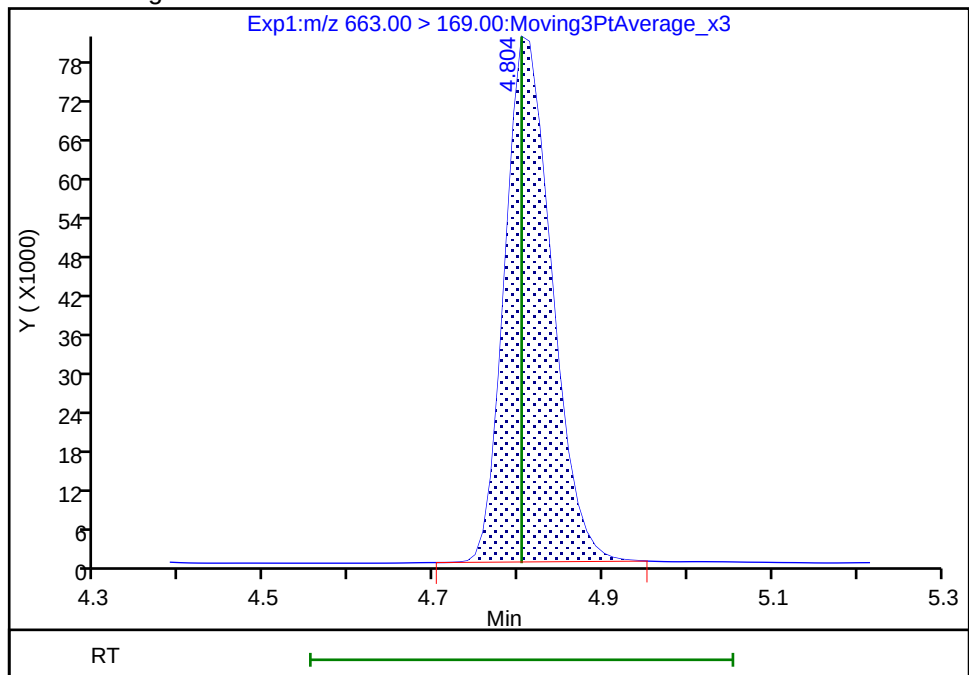
RT: 4.80
Area: 315364
Amount: 0.895241
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 313474
Amount: 0.931504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

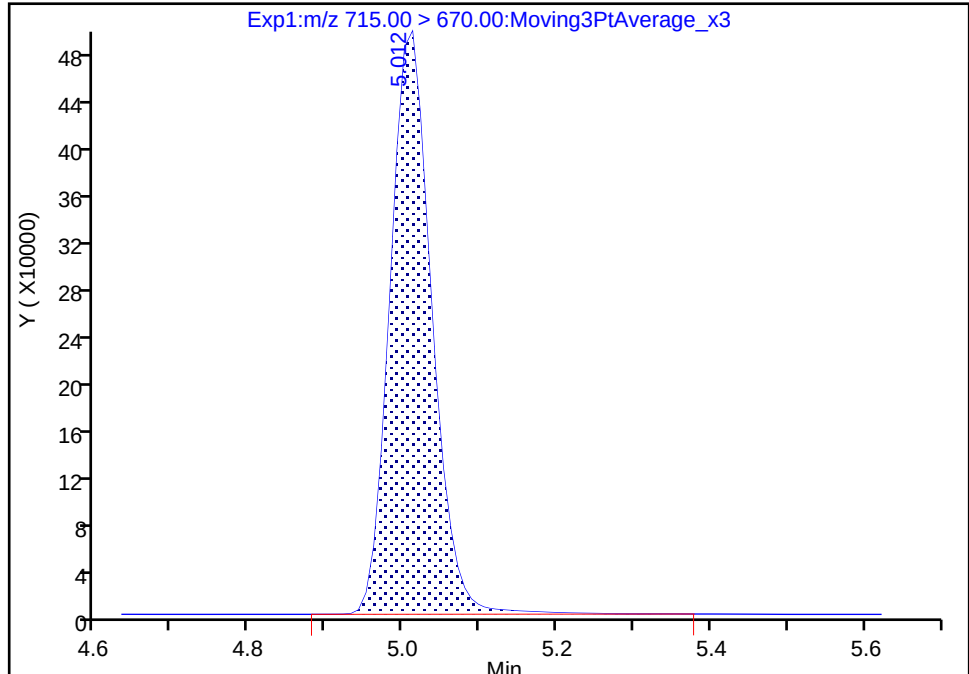
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

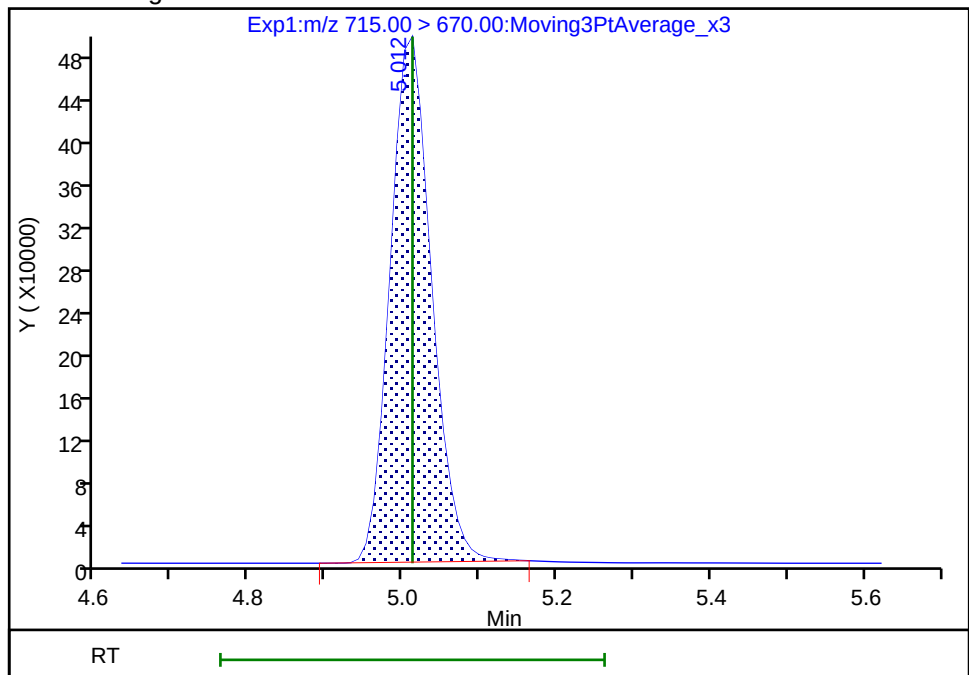
RT: 5.01
Area: 1869315
Amount: 1.228467
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1844360
Amount: 1.197970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

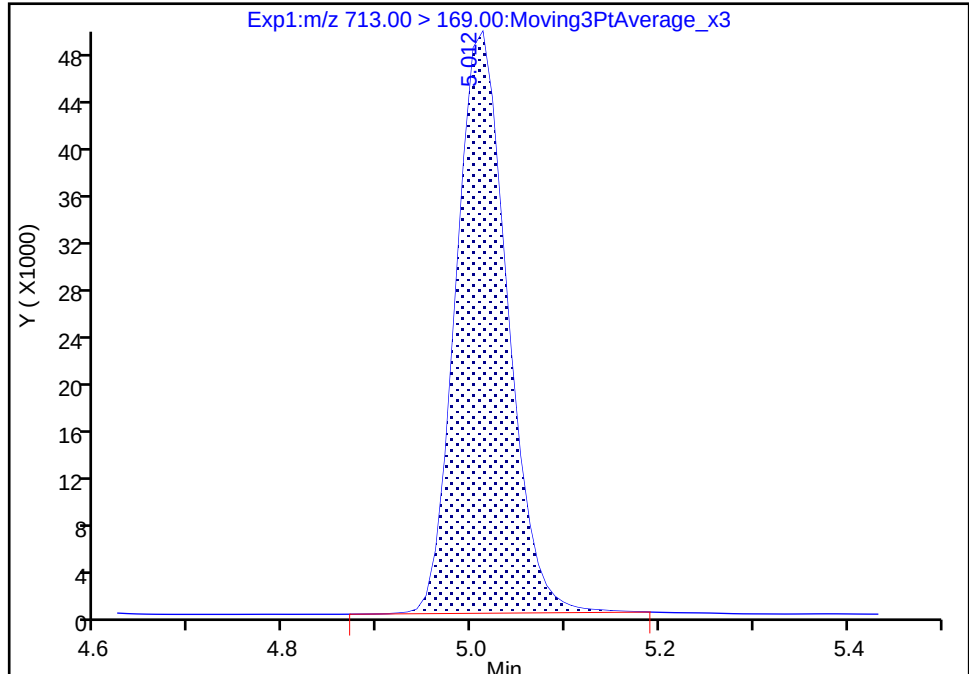
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

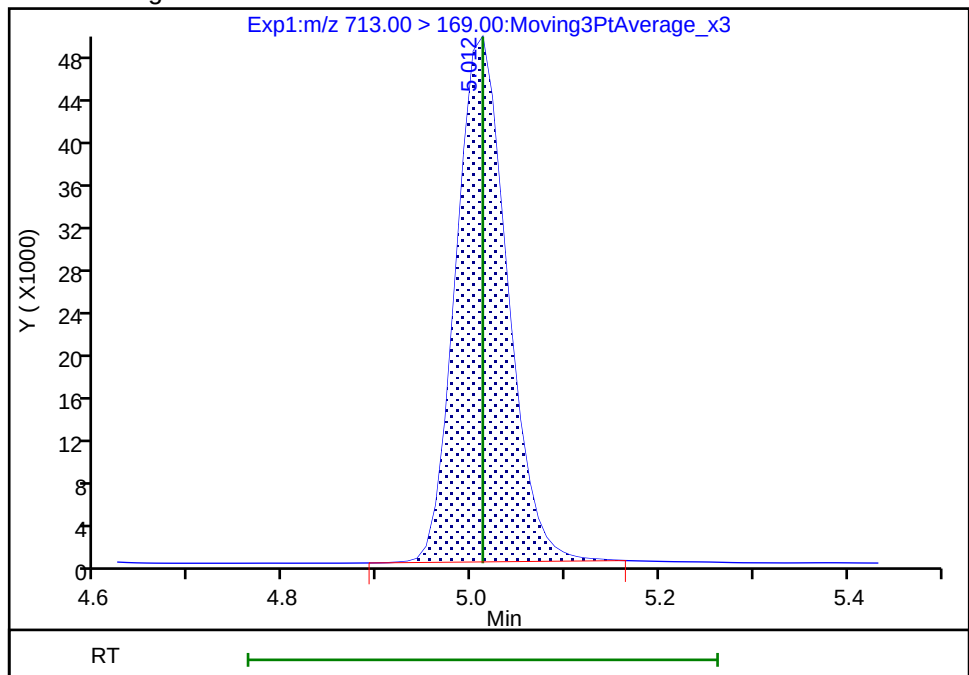
RT: 5.01
Area: 189104
Amount: 0.906114
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 188468
Amount: 0.933022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

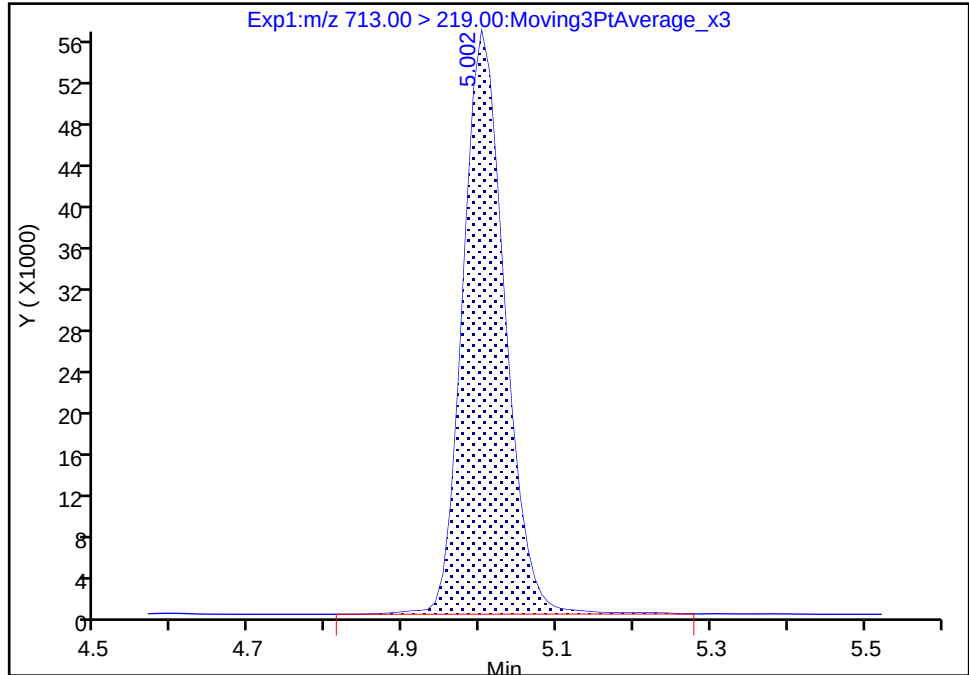
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

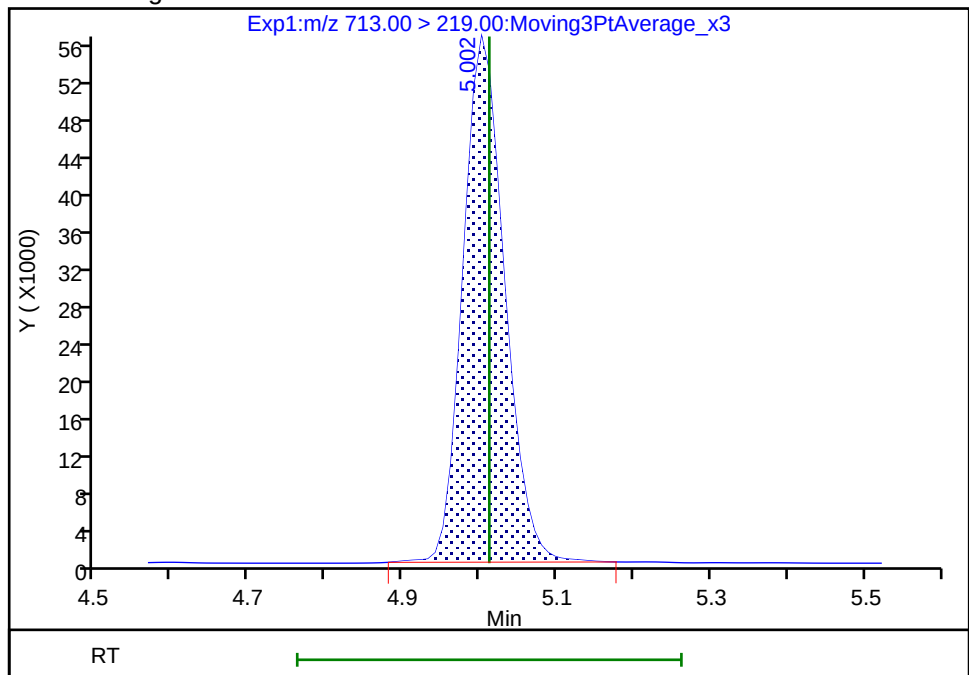
RT: 5.00
Area: 214481
Amount: 0.906114
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 212234
Amount: 0.933022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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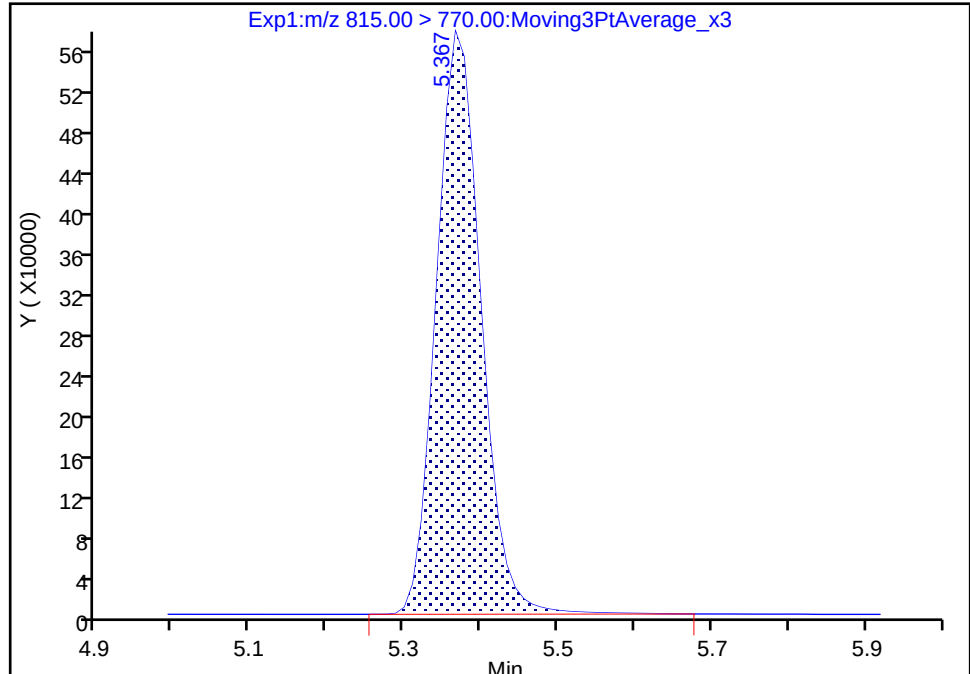
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

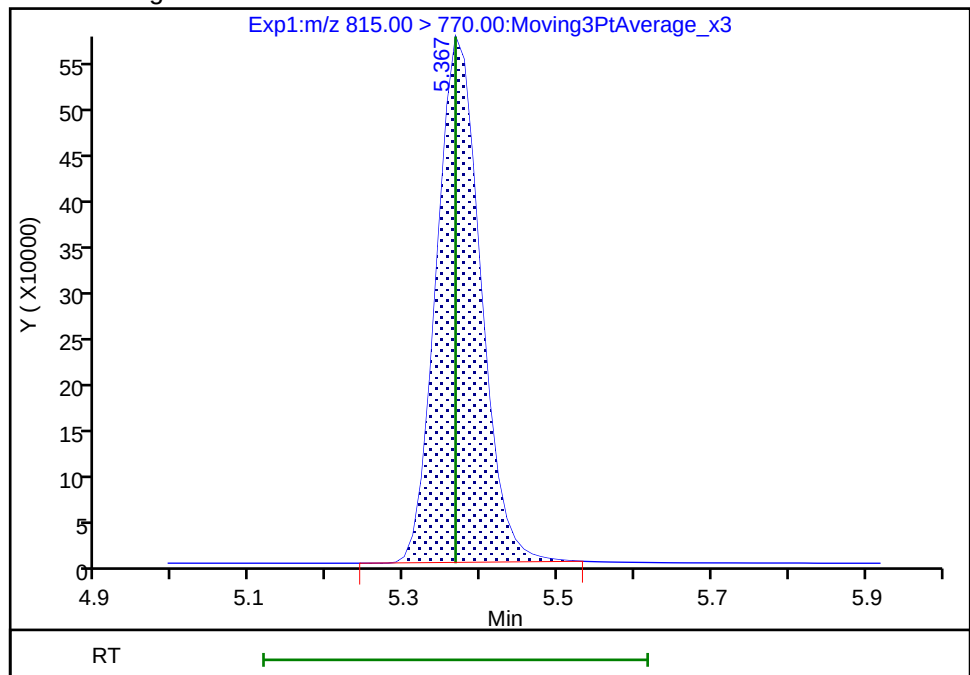
RT: 5.37
Area: 2303023
Amount: 1.224939
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2280992
Amount: 1.198419
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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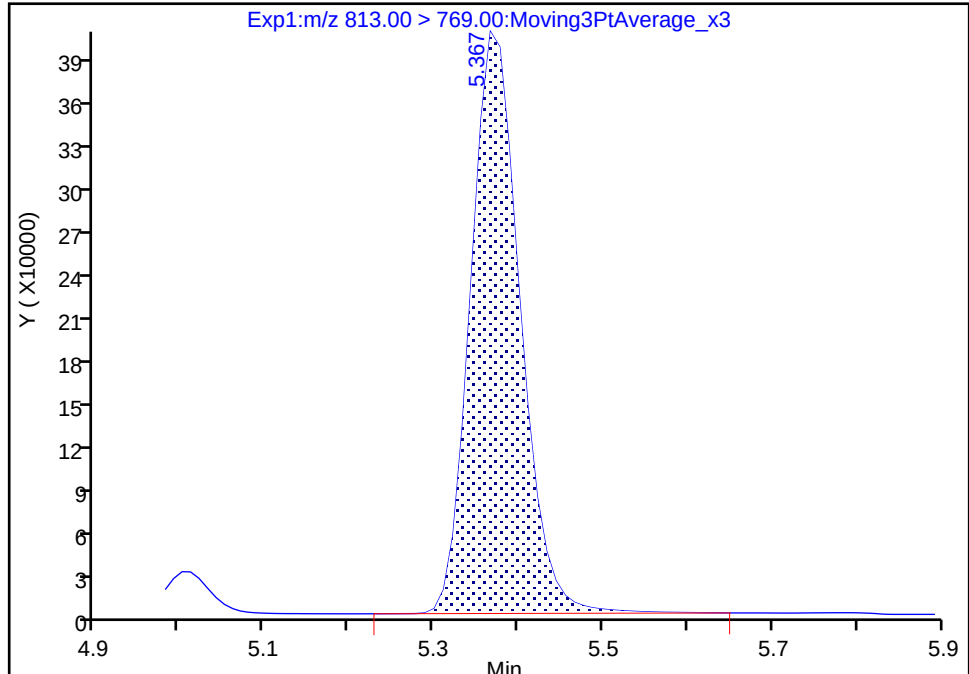
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

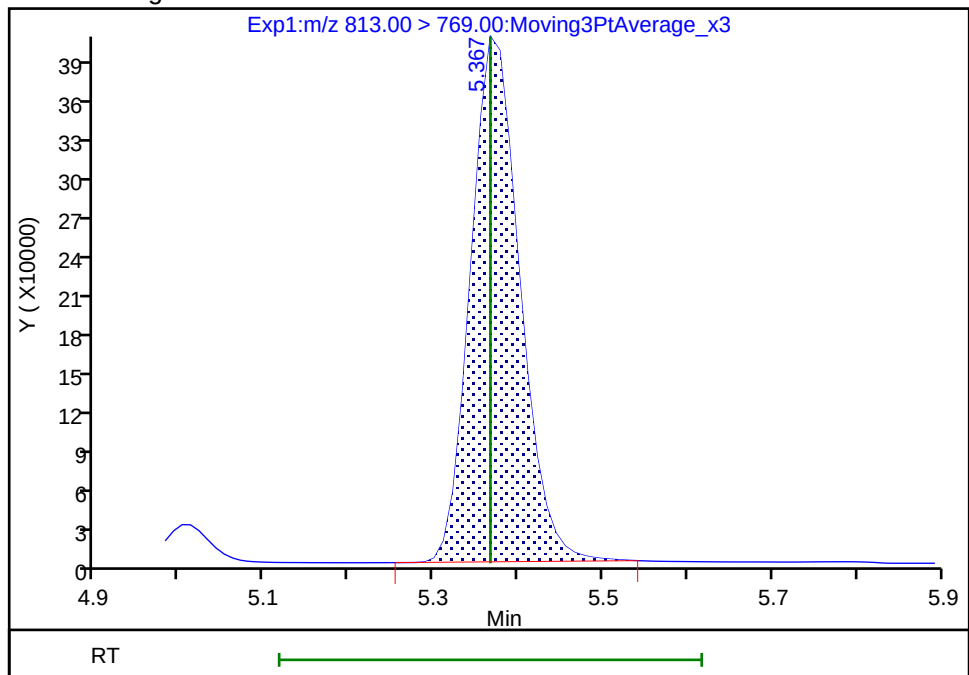
RT: 5.37
Area: 1646621
Amount: 0.957003
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 1633724
Amount: 0.956588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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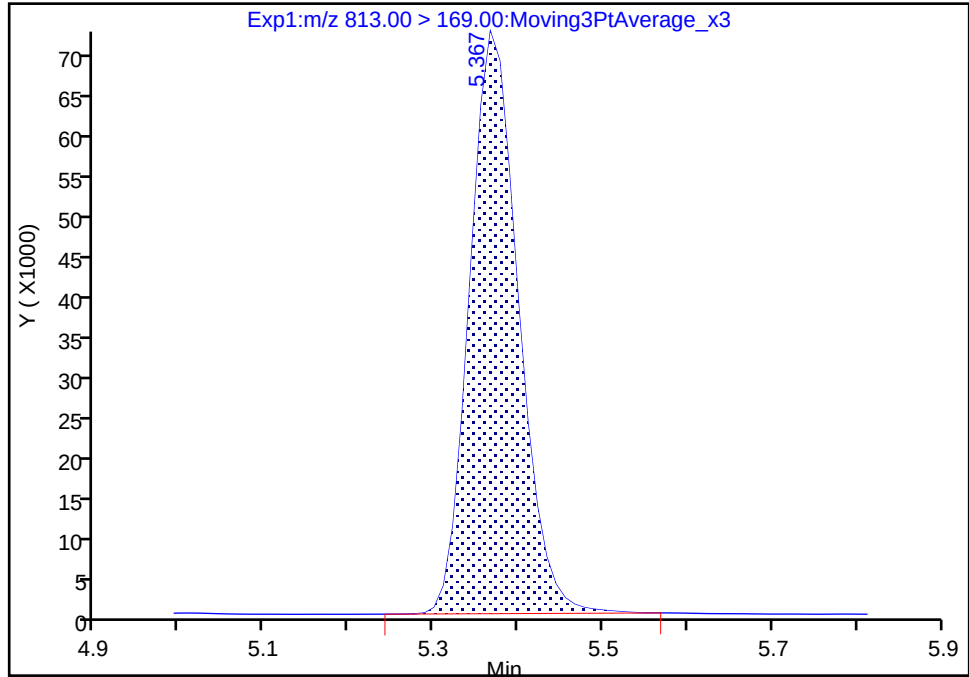
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

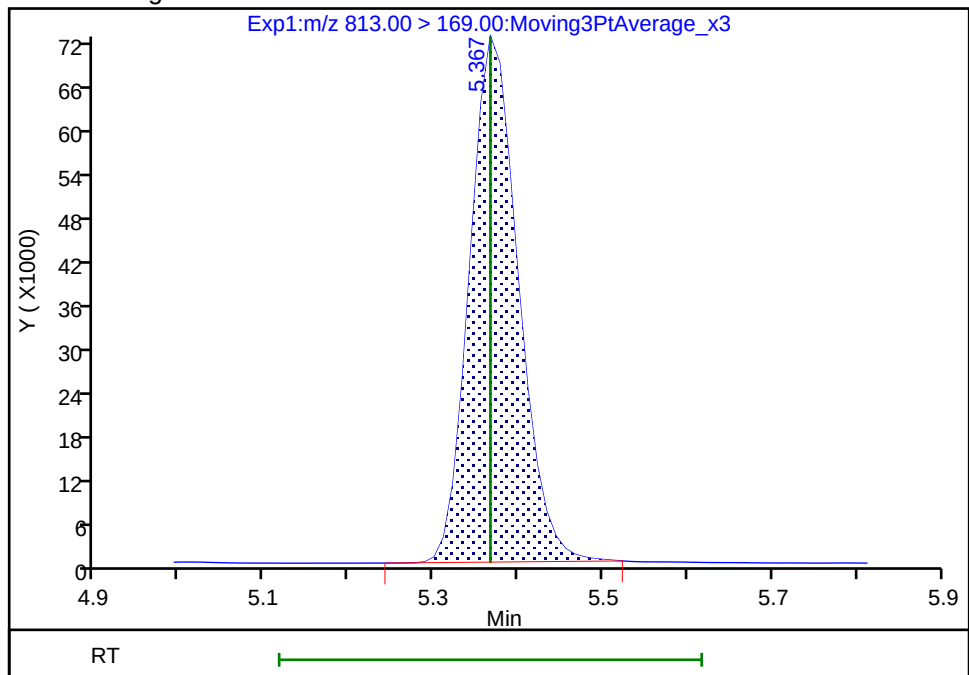
RT: 5.37
Area: 290873
Amount: 0.957003
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 289352
Amount: 0.956588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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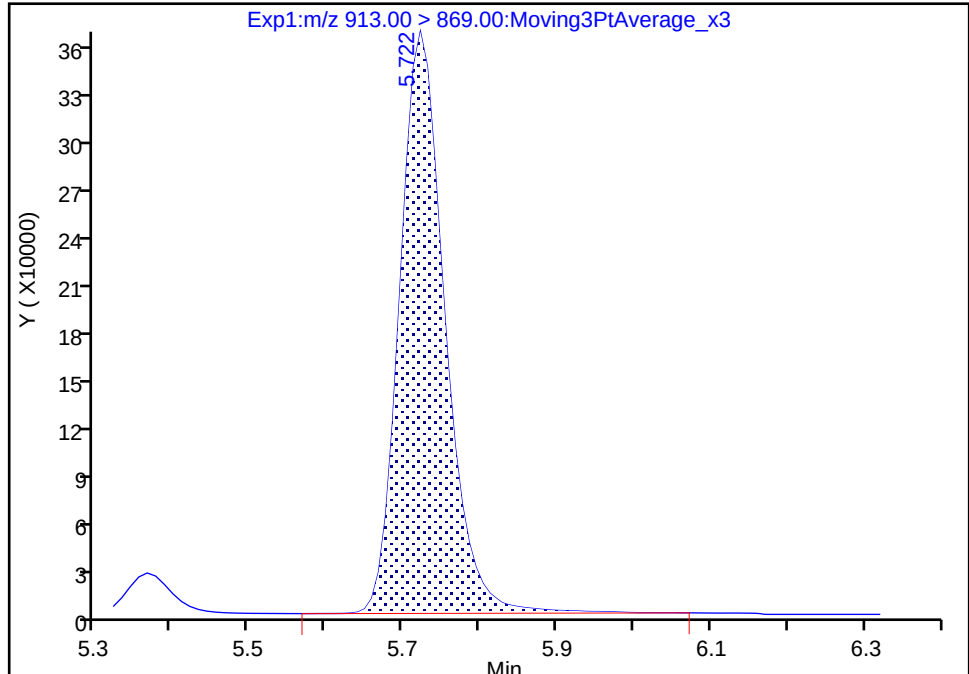
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

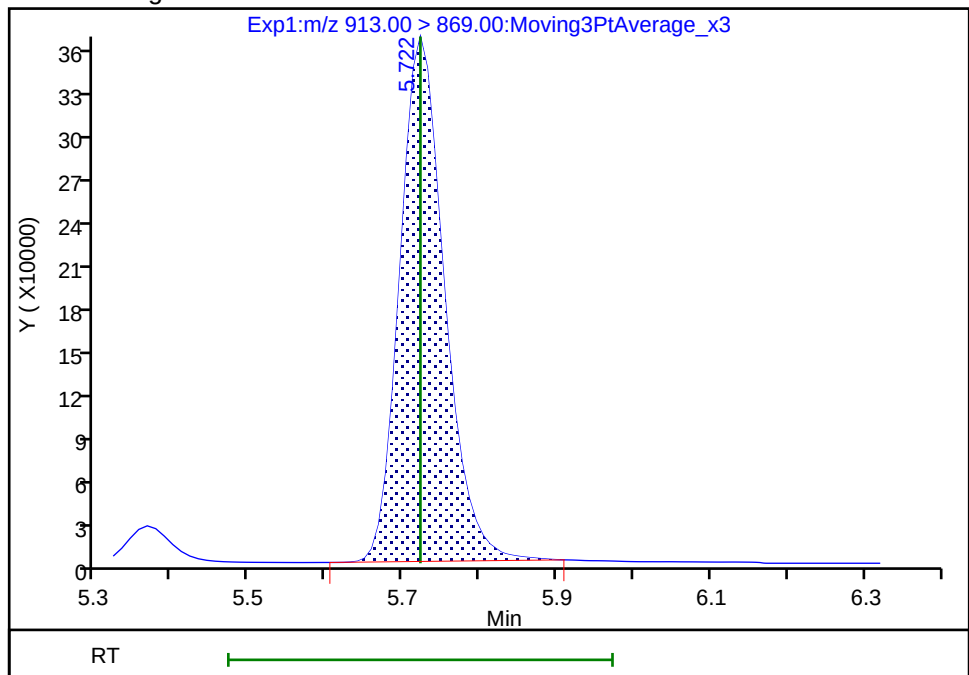
RT: 5.72
Area: 1494015
Amount: 0.963448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 1473641
Amount: 0.980547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

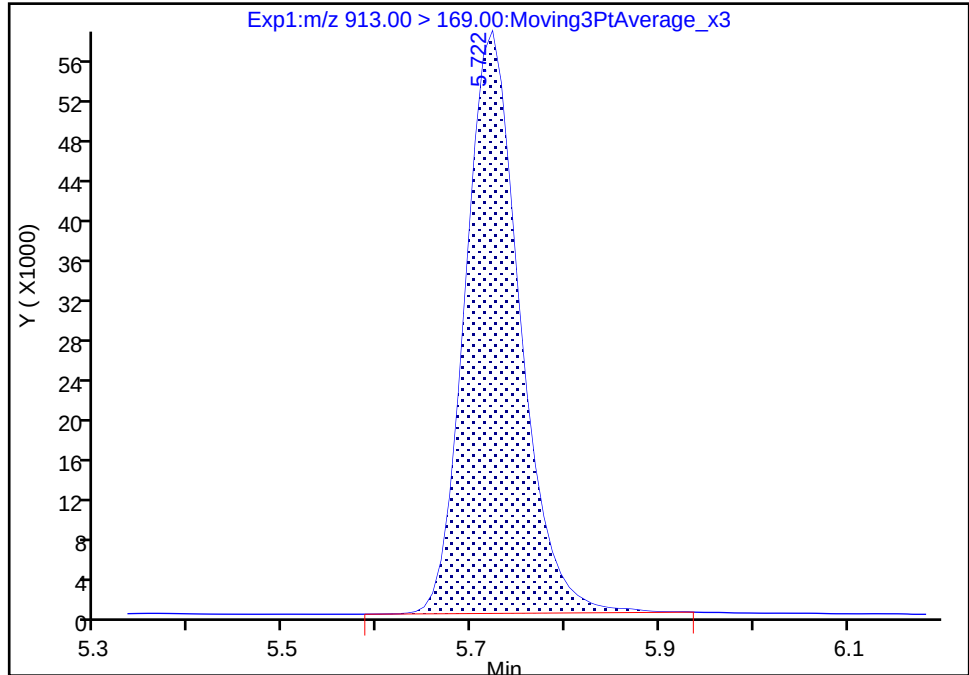
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

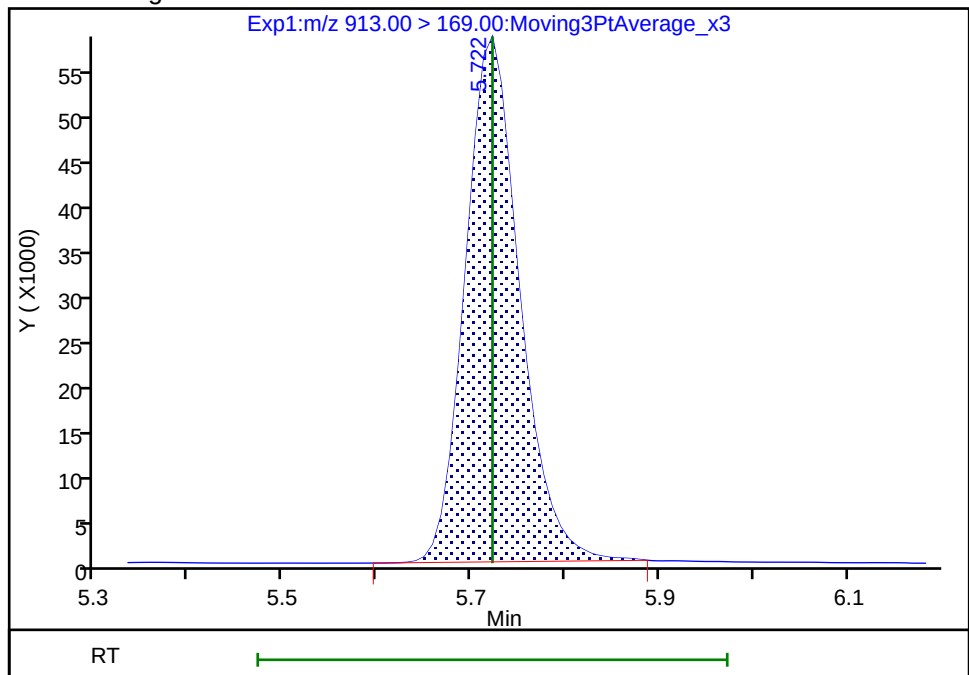
RT: 5.72
Area: 237553
Amount: 0.963448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 236187
Amount: 0.980547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Nov-2022 15:02:36 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:50 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:19:10

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	2.076	2.076	0.0	0.602	2679202	1.26		101	15212	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	5105461	2.31		92.4	460	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2026955	1.25		100	4109	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.000	4126130	2.33		93.4	109	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2026741	1.15		99.2	320899	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4292437	2.15	Target=2.14	97.4	4481	M
298.90 > 99.00	2.400	2.400	0.0	1.000	2025175		2.12(1.07-3.21)	97.4	1425	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	1079231	2.29		98.0	4533	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	178646	1.15		98.5	205	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2164012	1.28		102	5801	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.004	4547952	2.41	Target=13.44	96.4	805	M
313.00 > 119.00	2.725	2.725	0.0	1.000	312872		14.54(6.72-20.15)	96.4	433	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.738	2.737	0.001	0.883	3901605	2.33	Target=2.98	99.2	5520	
349.00 > 99.00	2.738	2.737	0.001	0.883	1271099		3.07(1.49-4.47)	99.2	1901	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	387831	1.30		104	1771	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	756781	2.31		92.4	3649	
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.899	1485775	1.16		98.1	3442	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	0.996	3217665	2.27	Target=3.57	99.7	1650	M
399.00 > 99.00	3.088	3.088	0.0	0.996	889058		3.62(1.78-5.35)	99.7	805	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2271049	1.30		104	7276	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	4611900	2.33	Target=3.93	93.3	871	
363.00 > 169.00	3.099	3.099	0.0	1.000	1182521		3.90(1.96-5.89)	93.3	2126	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	10824421	2.24	Target=3.08	95.0	3767	M
377.00 > 85.00	3.132	3.132	0.0	0.832	3633058		2.98(1.54-4.62)	95.0	1956	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	257709	1.20		101	723	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	1097897	2.38		101	2807	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	2744265	2.24	Target=5.16	94.0	1942	M
449.00 > 99.00	3.439	3.439	0.0	0.914	543093		5.05(2.58-7.74)	94.0	2249	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2522753	1.29		103	5188	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2367797	1.25			4001	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	5263268	2.44	Target=2.82	97.6	387	
413.00 > 169.00	3.448	3.448	0.0	1.000	1822258		2.89(1.41-4.23)	97.6	1577	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1049764	1.21		101	2525	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	2338057	2.19	Target=5.01	94.3	367	M
499.00 > 99.00	3.764	3.764	0.0	1.000	491265		4.76(2.50-7.51)	94.3	383	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.783	3.783	0.0	1.097	2401890	1.26		101	3709	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	4930997	2.47	Target=8.49	99.0	859	M
463.00 > 169.00	3.783	3.783	0.0	1.000	586103		8.41(4.25-12.74)	99.0	2411	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	5512960	2.25		96.5	3886	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.061	4.050	0.011	1.079	1871298	2.32	Target=2.60	96.7	2768	M
549.00 > 99.00	4.061	4.050	0.011	1.079	726837		2.57(1.30-3.90)	96.7	2286	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2491665	1.28		103	4693	

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	4.081	0.0	1.000	4948756	2.29	Target=10.03	91.6	1883	
513.00 > 169.00	4.081	4.081	0.0	1.000	502506		9.85(5.02-15.05)	91.6	891	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	321188	1.22		102	963	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	1014644	2.34		97.7	2533	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	4094524	2.46		98.3	2556	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1993351	1.25		100	2401	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	514239	1.30		104	416	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	873622	2.46		98.3	924	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	1496790	2.35	Target=2.58	97.5	2027	M
599.00 > 99.00	4.331	4.331	0.0	1.151	562866		2.66(1.29-3.86)	97.5	1295	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	0.997	4311823	2.37	Target=10.10	94.7	1327	M
563.00 > 169.00	4.353	4.353	0.0	0.997	431935		9.98(5.05-15.15)	94.7	1347	
D 30 13C2 PFUnA										
565.00 > 520.00	4.365	4.353	0.012	1.266	2259671	1.27		102	3817	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.365	0.011	1.003	848987	2.39		95.5	1131	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	496655	1.28		102	1013	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	8644779	2.29		97.1	2779	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.591	0.010	1.000	4520955	2.28	Target=7.41	91.0	287	M
613.00 > 169.00	4.601	4.591	0.010	1.000	628962		7.19(3.70-11.11)	91.0	2150	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.591	0.010	1.335	2344331	1.29		104	3770	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	585886	2.25		93.3	1907	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	629893	2.34	Target=0.51	96.6	3834	M
699.00 > 99.00	4.776	4.776	0.0	1.269	1217795		0.52(0.25-0.76)	96.6	1849	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.812	4.804	0.008	1.046	4574880	2.41	Target=5.40	96.3	292	M
663.00 > 169.00	4.812	4.804	0.008	1.046	841148		5.44(2.70-8.10)	96.3	1577	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	519386	2.35	Target=0.90	94.1	1498	M
713.00 > 219.00	5.012	5.012	0.0	1.000	610374		0.85(0.45-1.35)	94.1	1973	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	2014799	1.29		103	2640	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.366	5.367	-0.001	1.557	2500657	1.29		103	2634	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.377	5.367	0.010	1.002	4609177	2.49	Target=5.85	99.5	360	M
813.00 > 169.00	5.377	5.367	0.010	1.002	767191		6.01(2.93-8.78)	99.5	1778	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	3885994	2.36	Target=6.30	94.3	307	M
913.00 > 169.00	5.722	5.722	0.0	1.066	634754		6.12(3.15-9.46)	94.3	883	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00030

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d

Injection Date: 18-Nov-2022 15:02:36

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

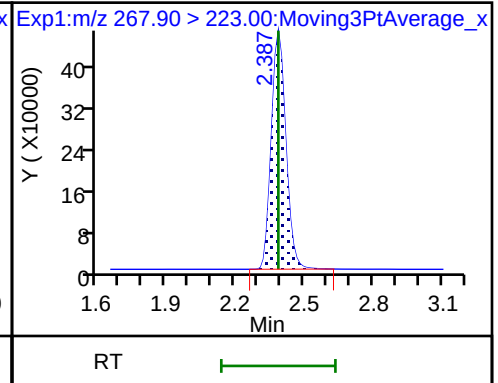
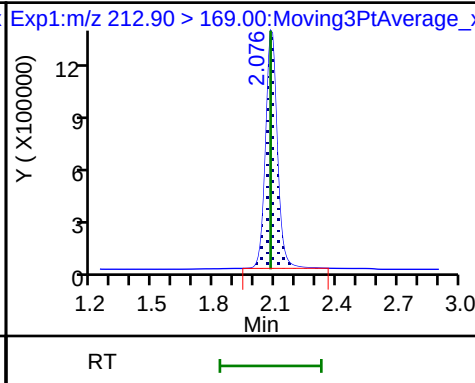
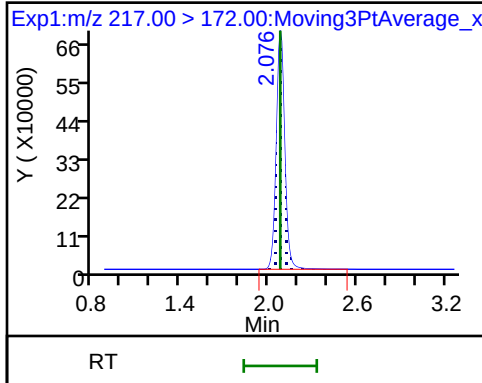
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

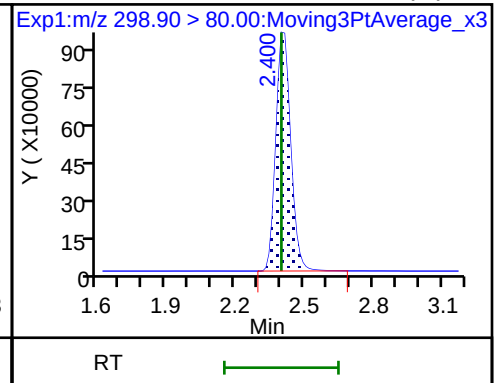
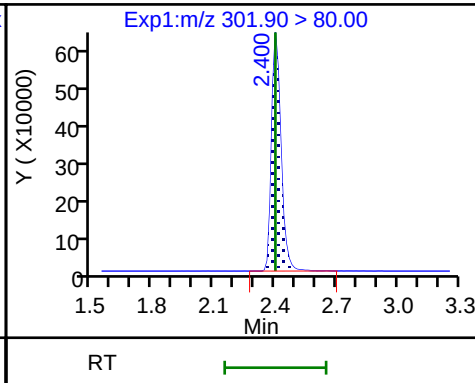
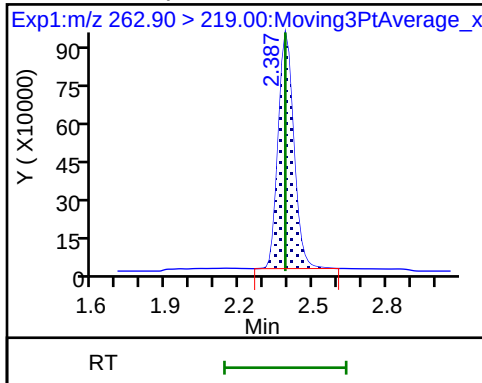
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

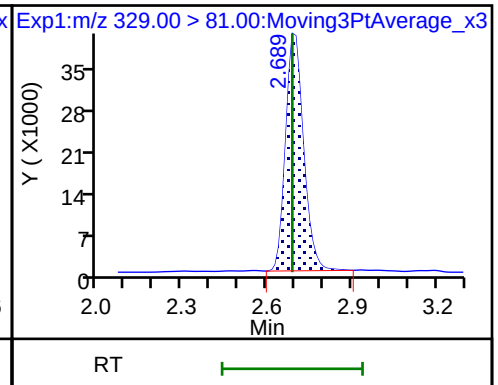
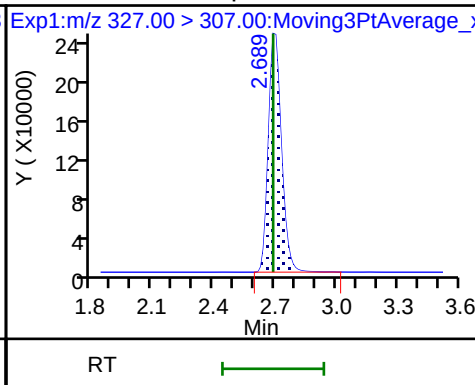
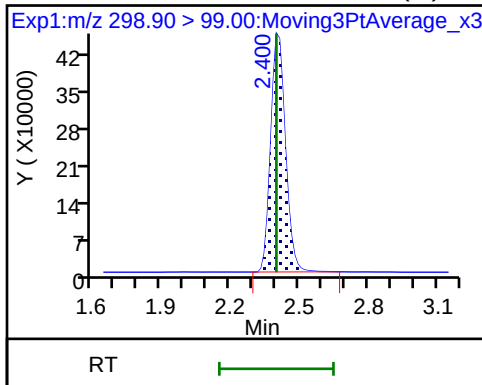
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

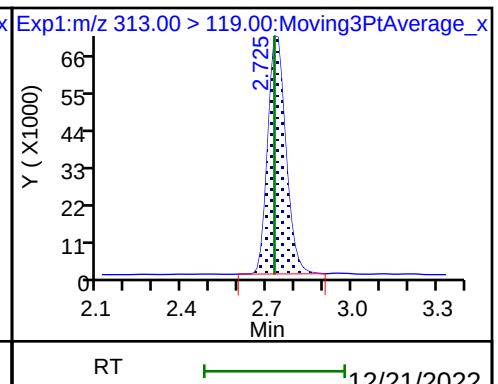
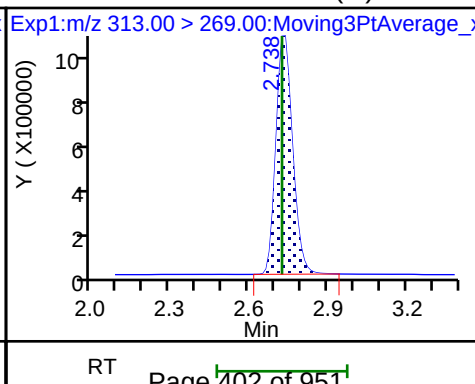
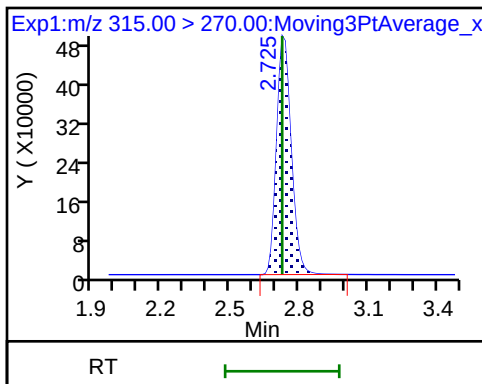
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

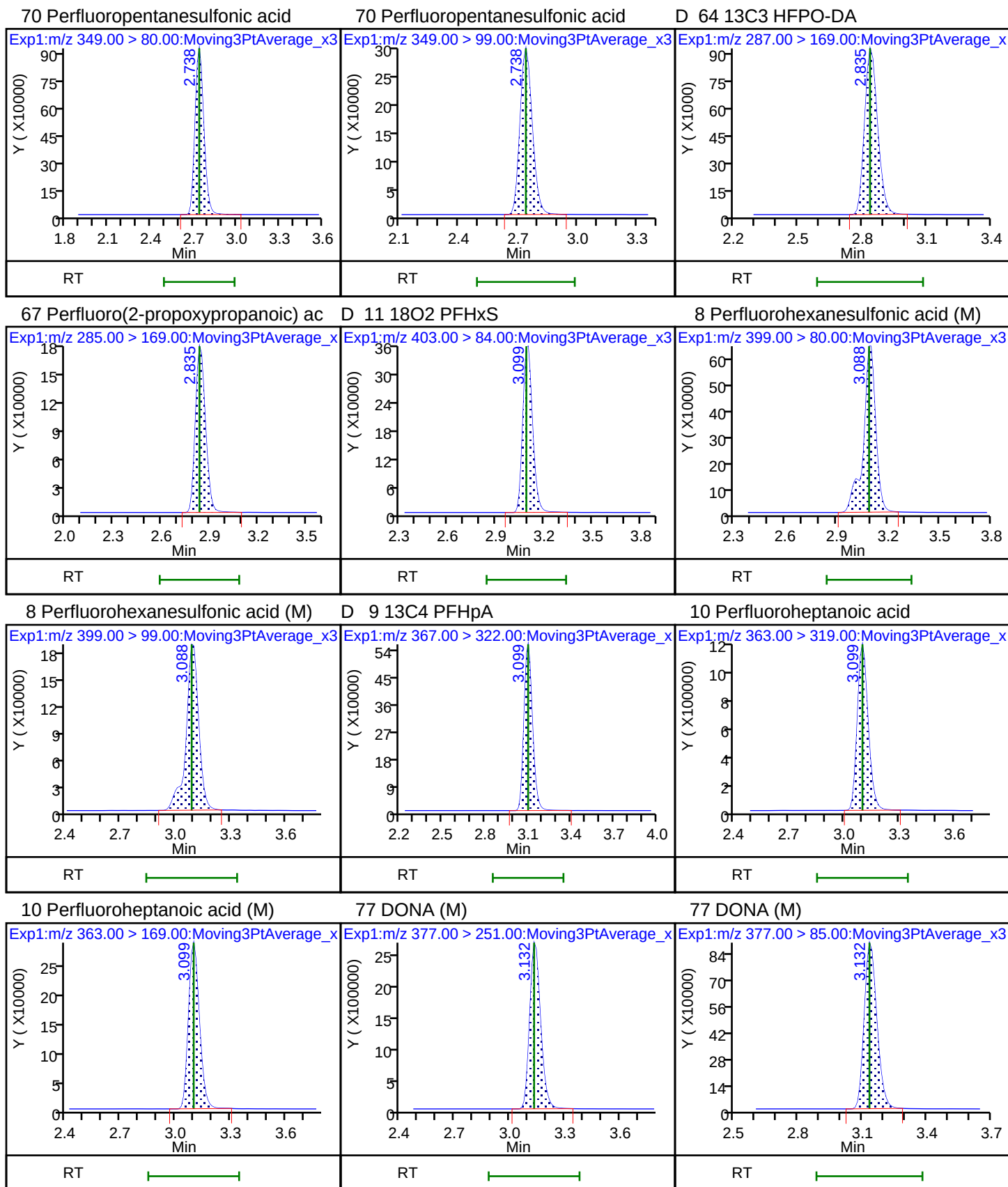


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

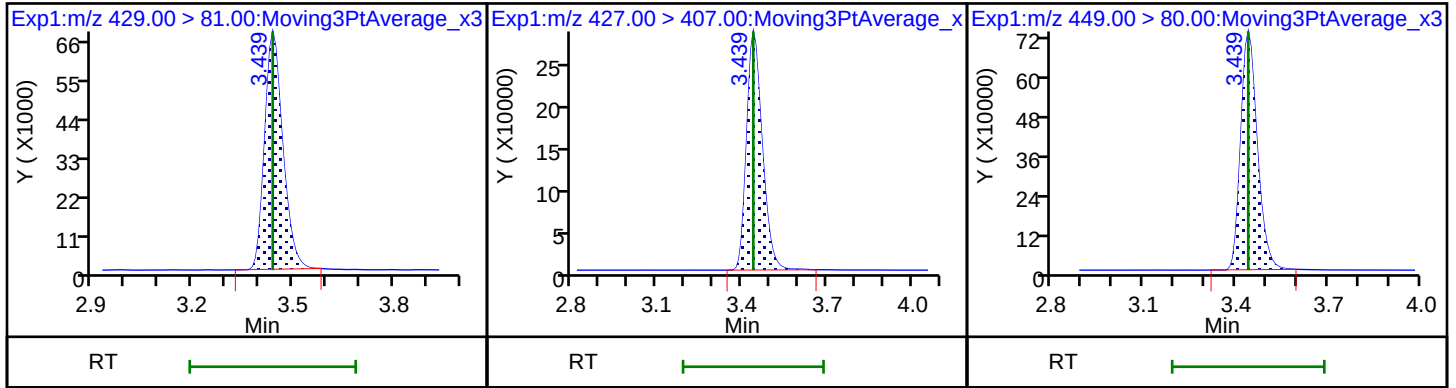




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

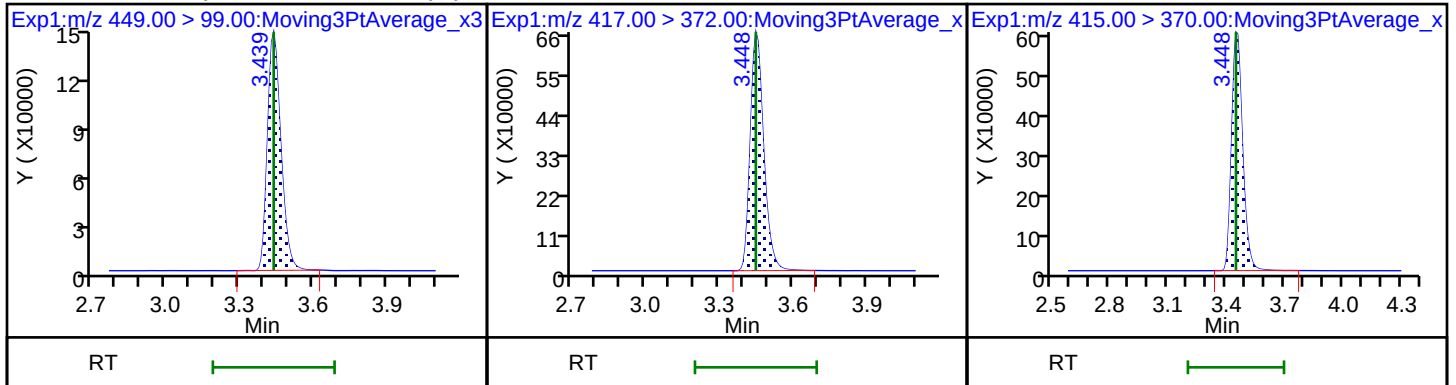
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

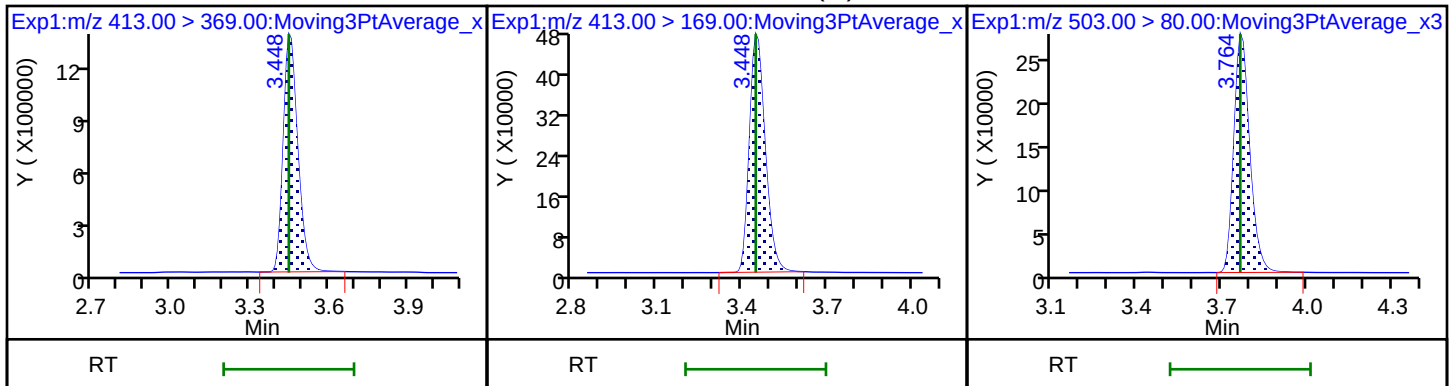
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

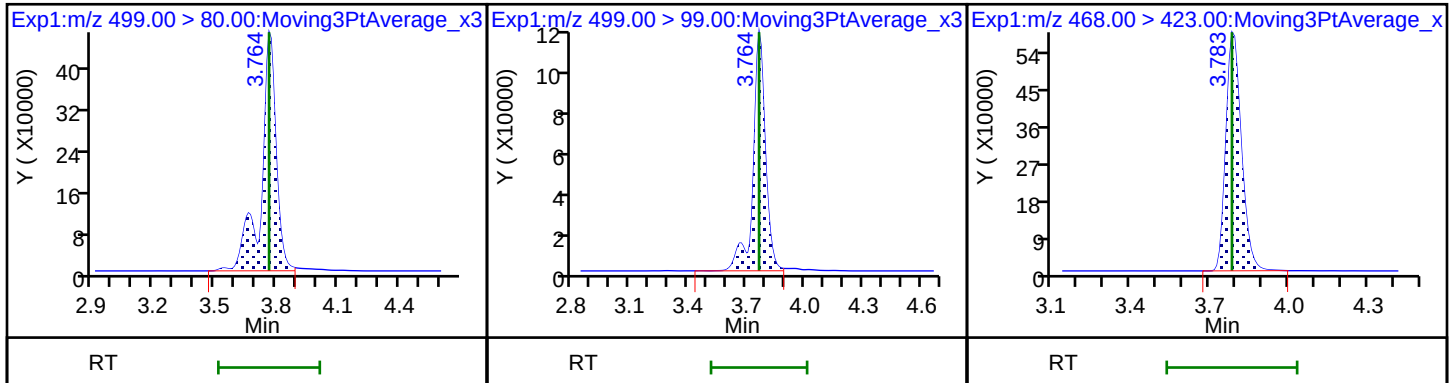
D 18 13C4 PFOS

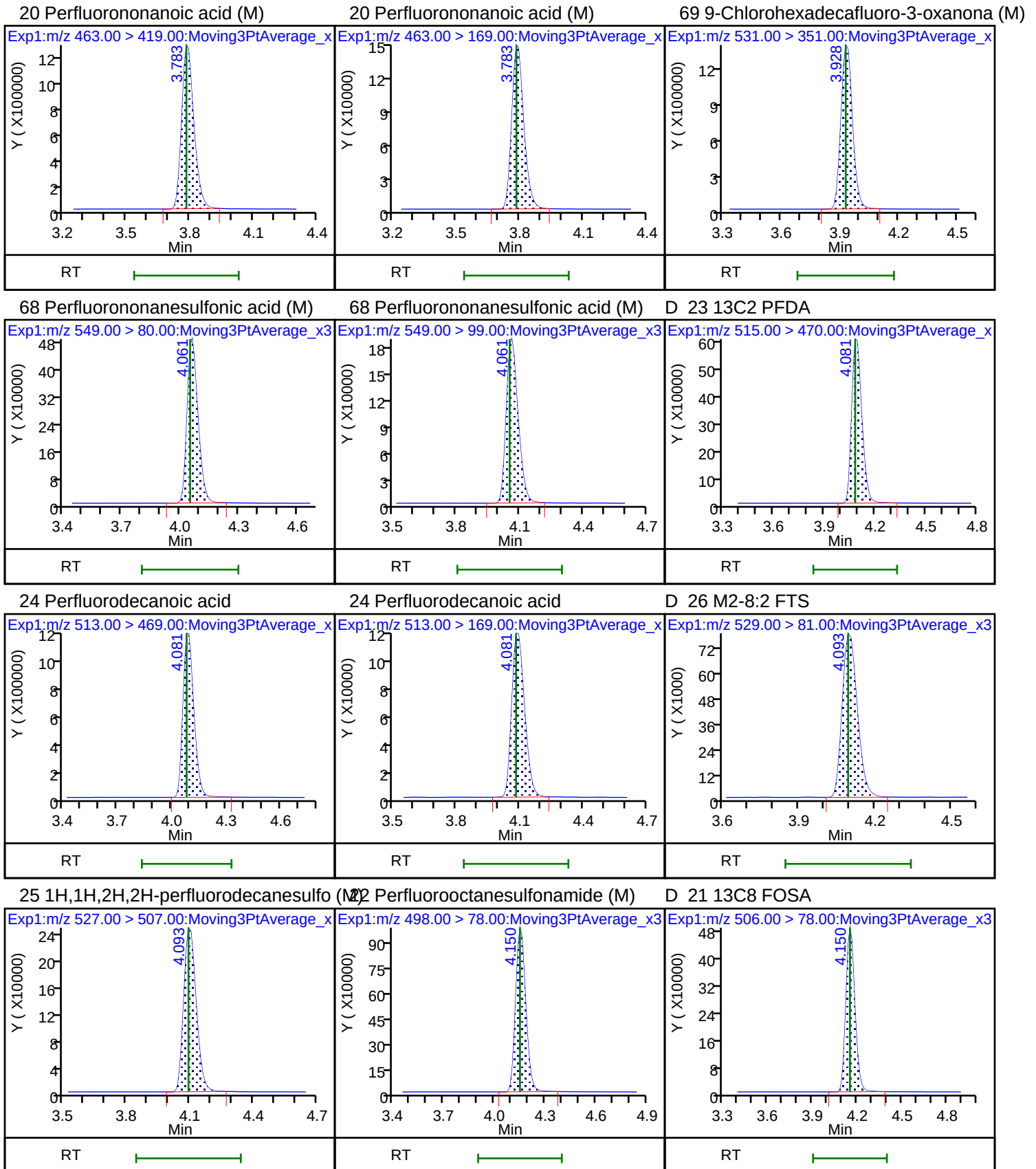


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

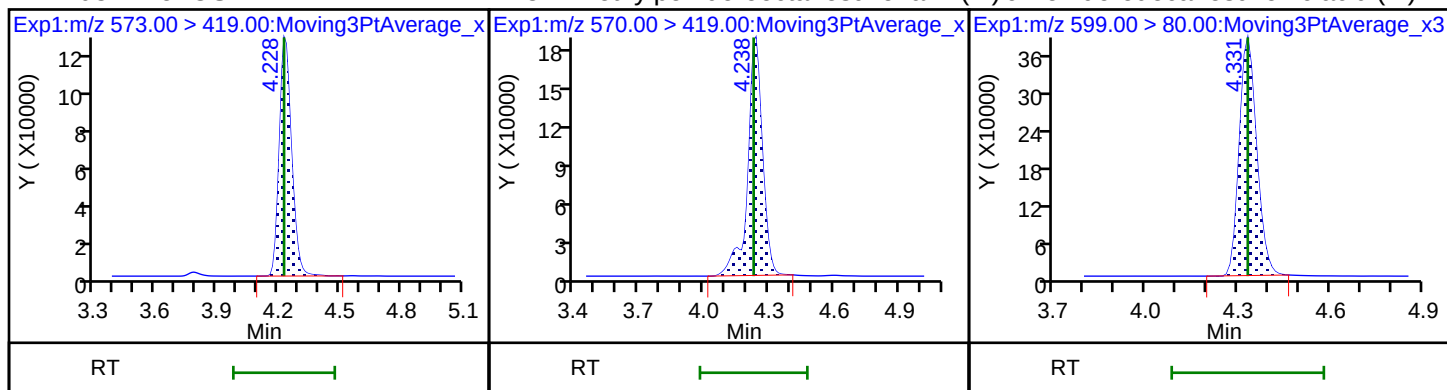
D 19 13C5 PFNA (M)





D 27 d3-NMeFOSAA

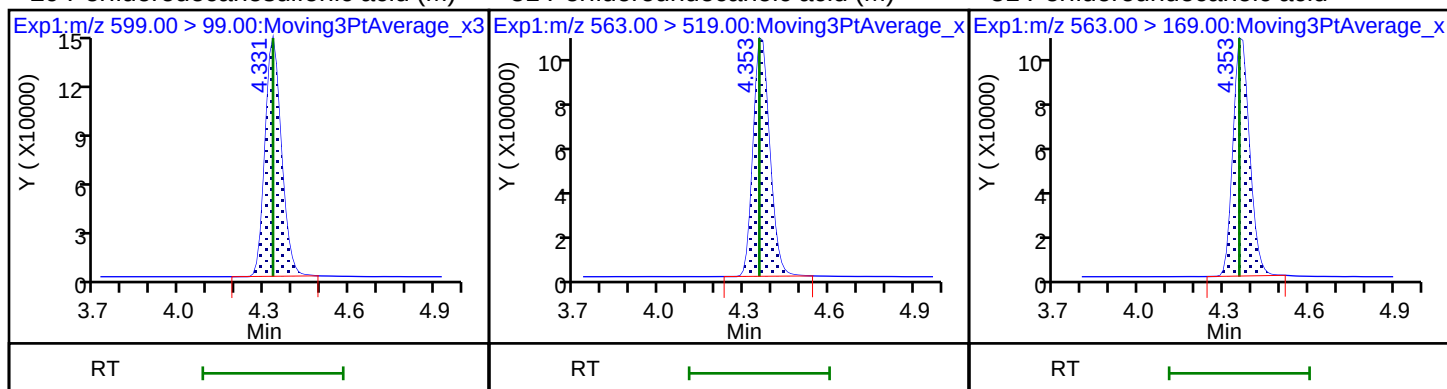
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

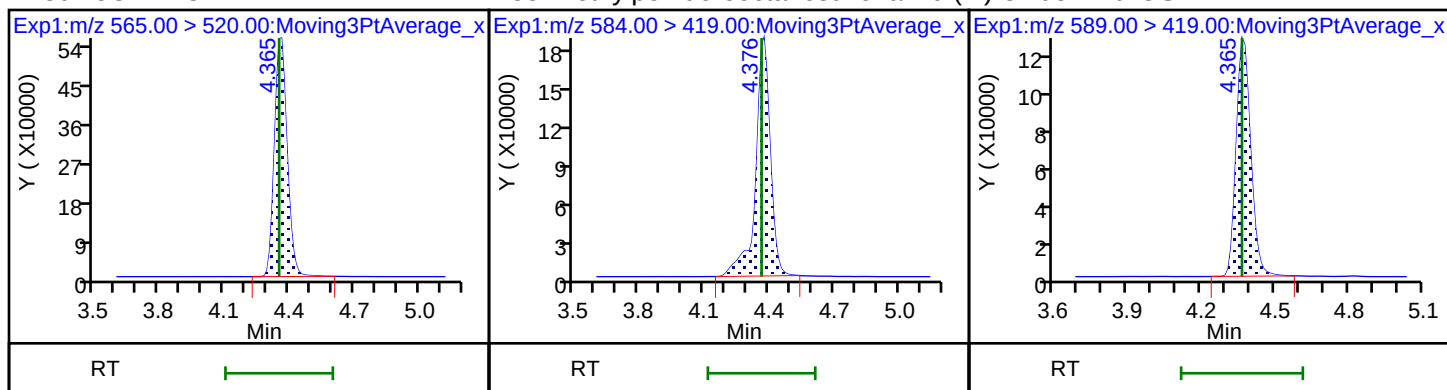
31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid



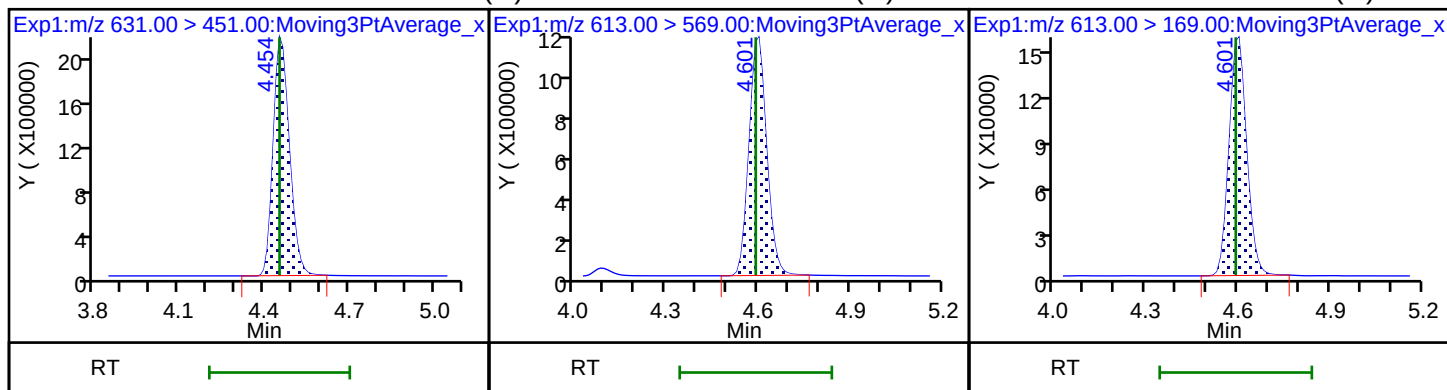
D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



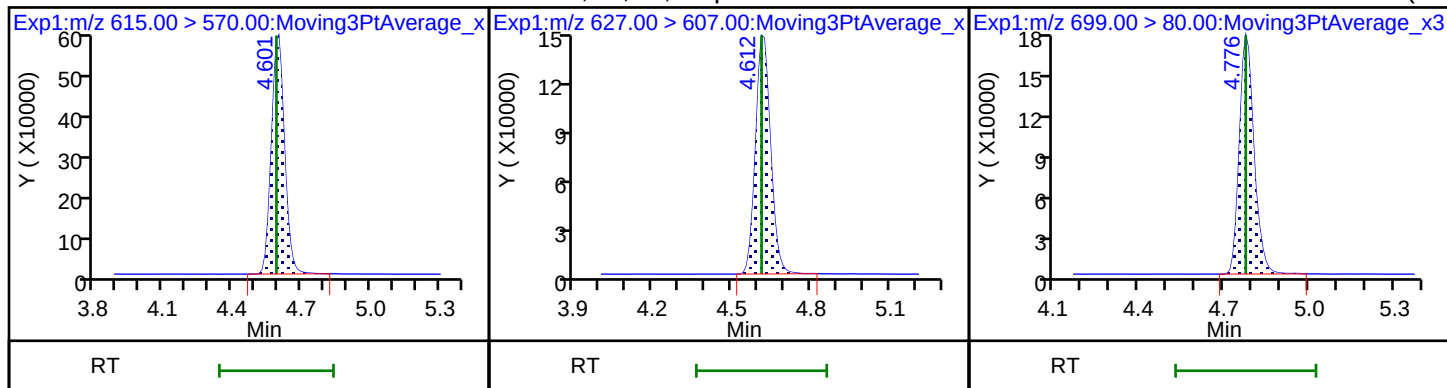
66 11-Chloroeicosafluoro-3-oxaundec (M) 37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



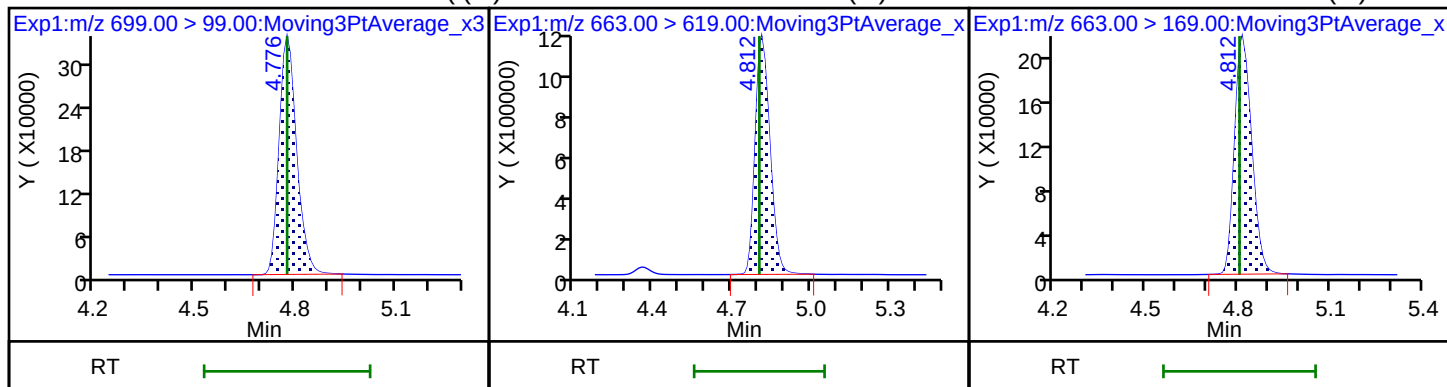
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

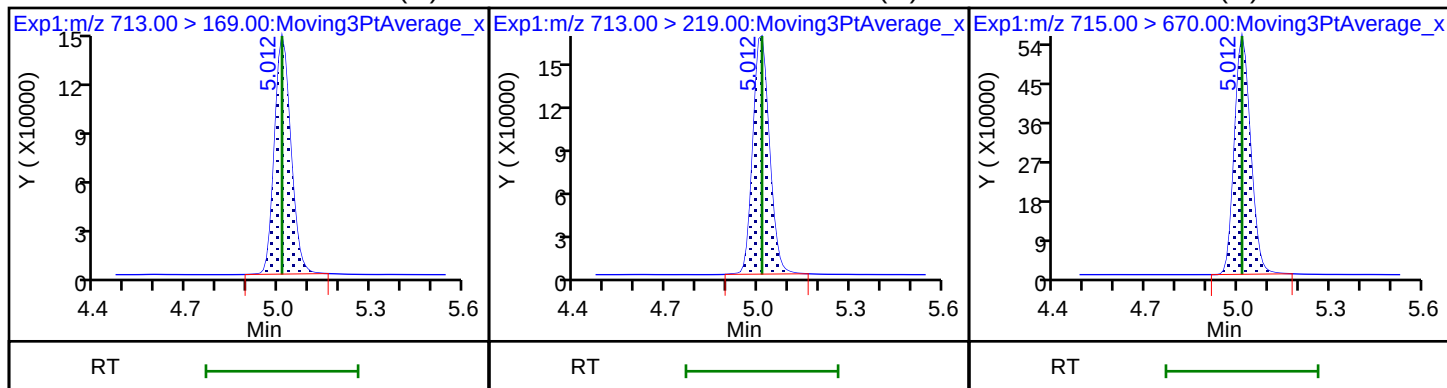
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

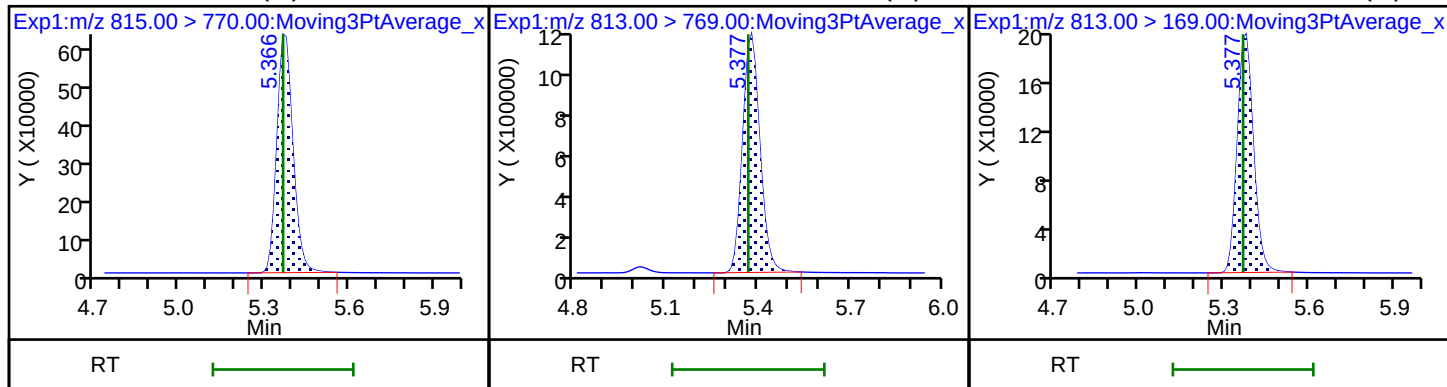
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

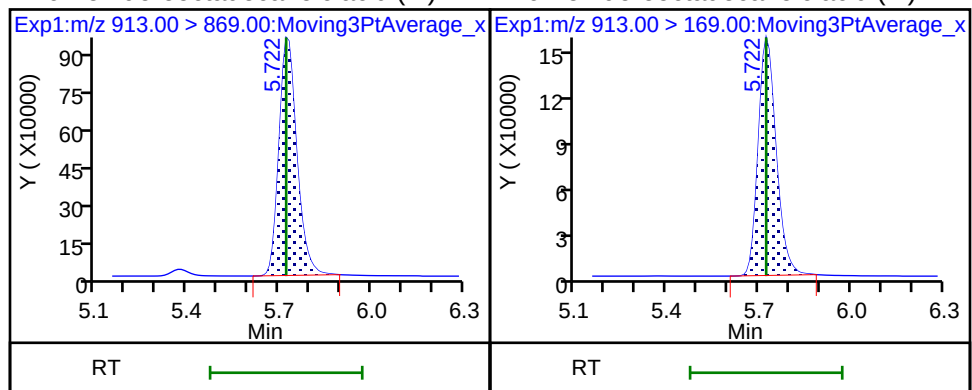
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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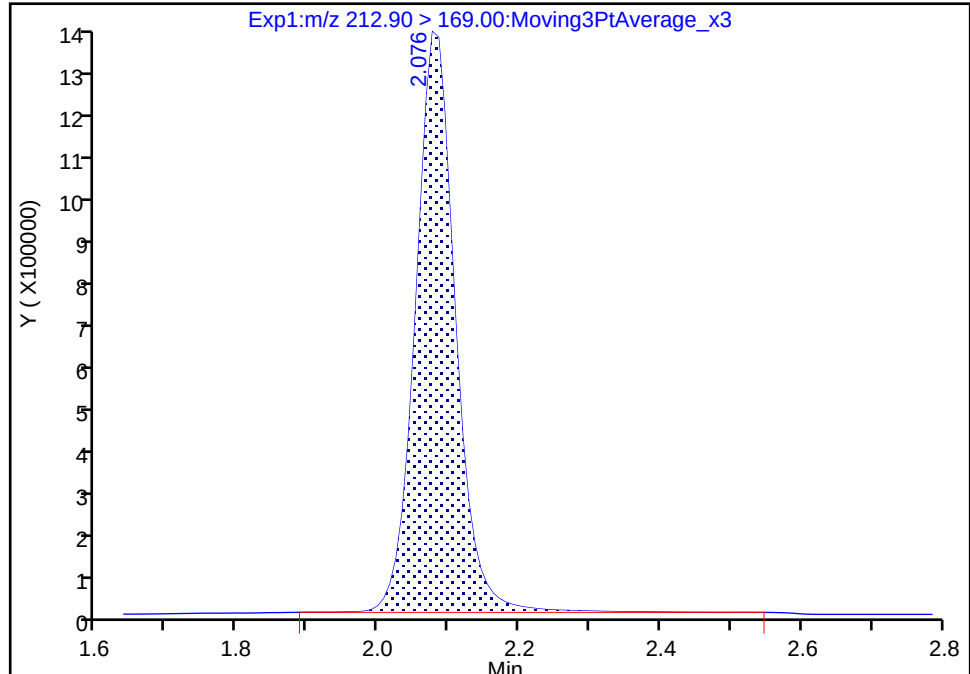
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

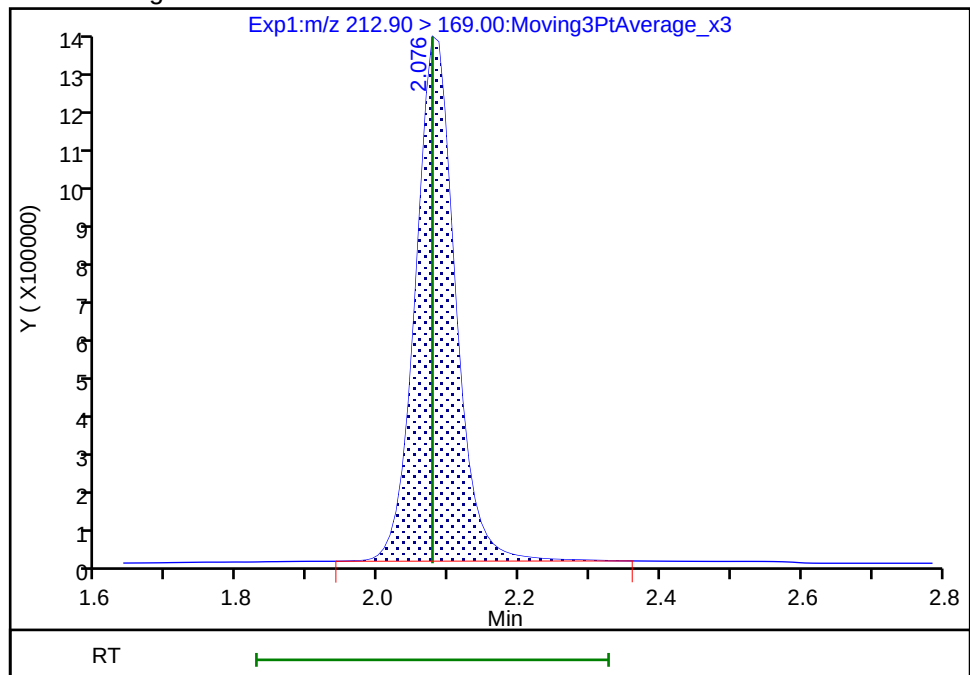
RT: 2.08
Area: 5129420
Amount: 2.272604
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 5105461
Amount: 2.309927
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:13:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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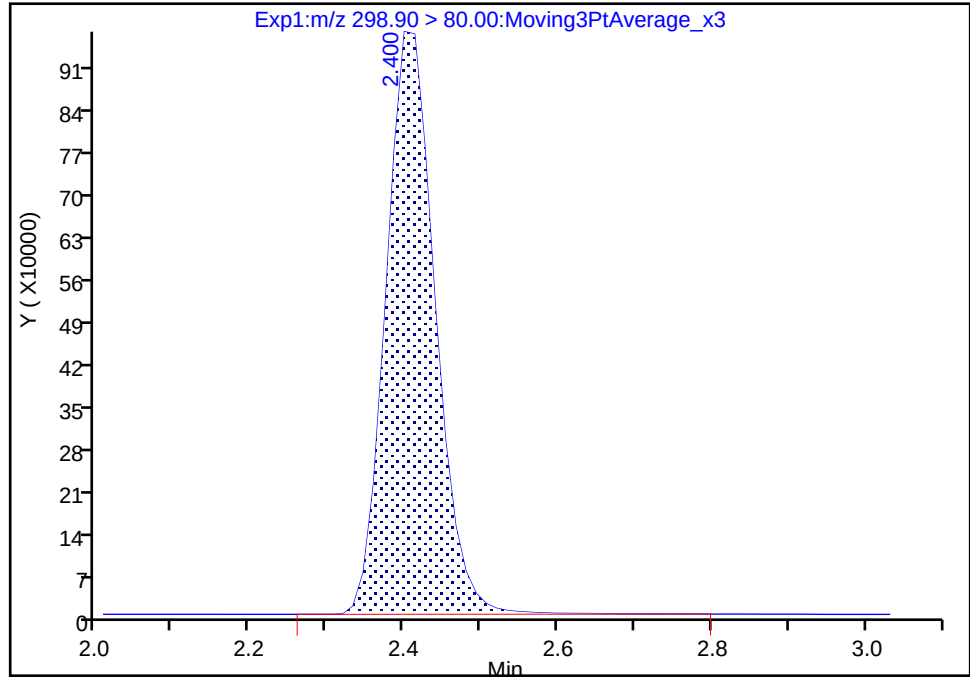
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

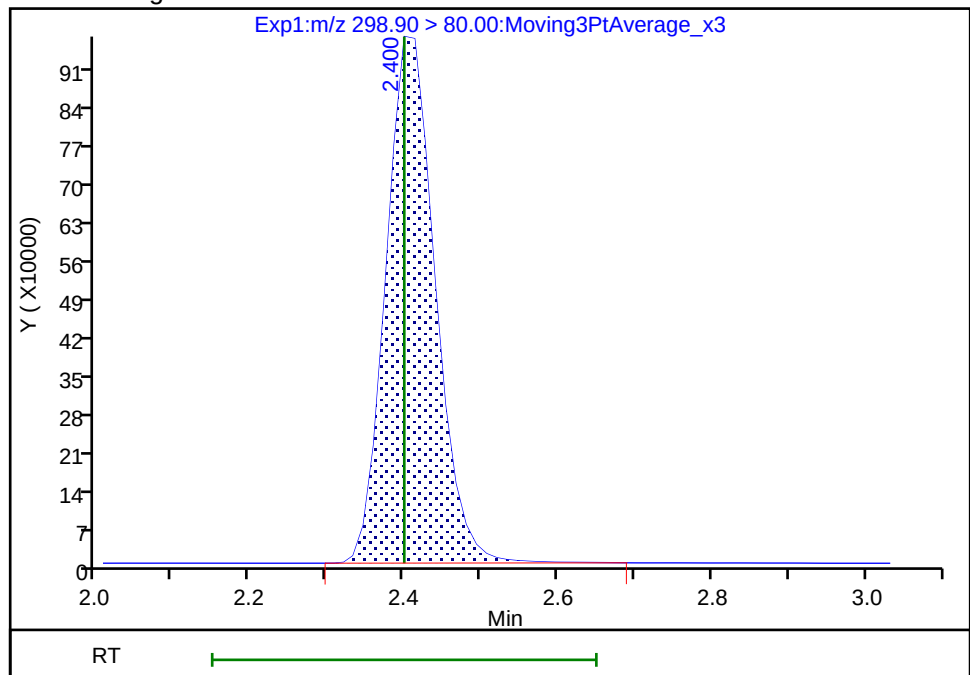
RT: 2.40
Area: 4298516
Amount: 2.130457
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4292437
Amount: 2.151992
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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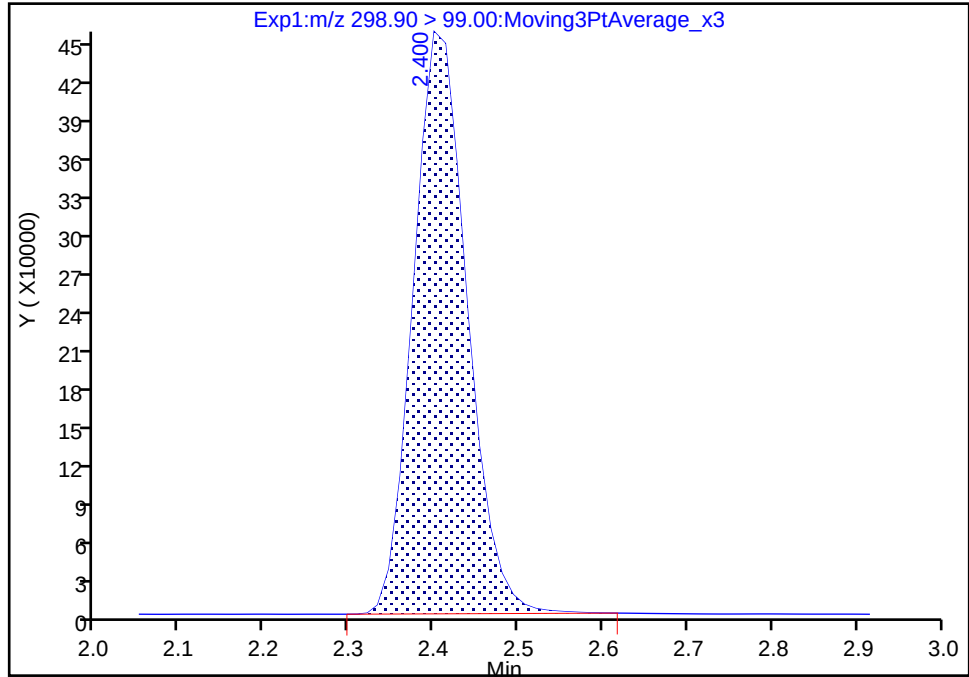
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

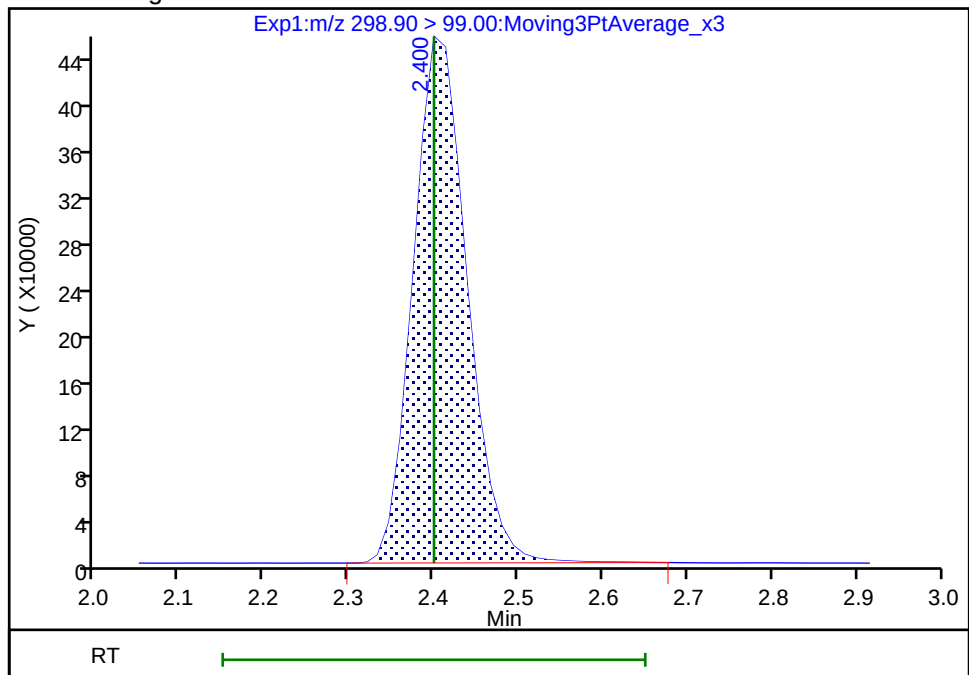
RT: 2.40
Area: 2019708
Amount: 2.130457
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2025175
Amount: 2.151992
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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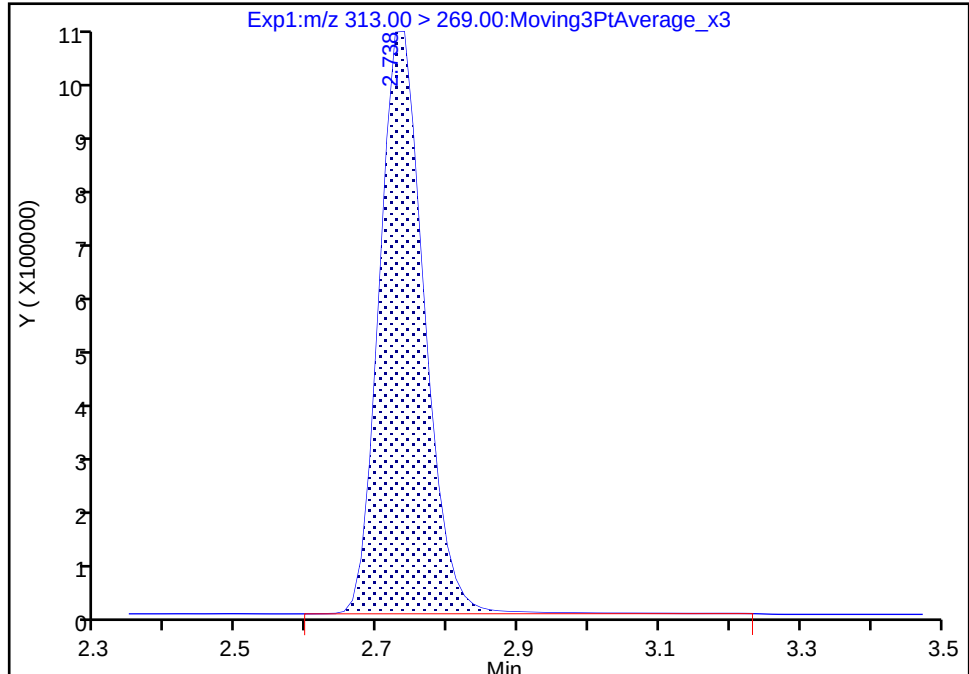
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Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

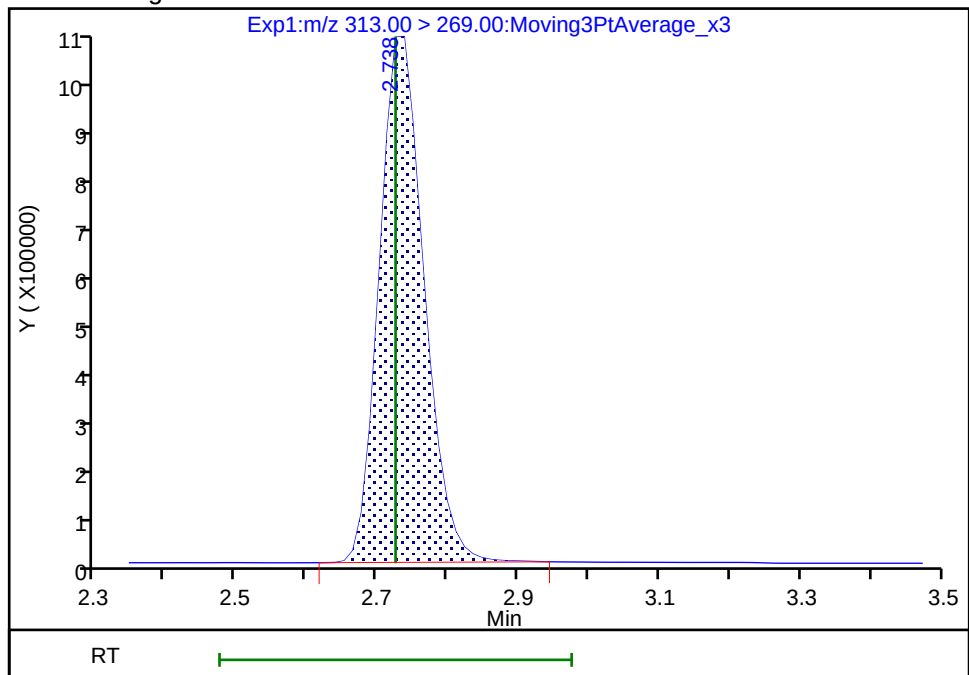
RT: 2.74
Area: 4577392
Amount: 2.375601
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 4547952
Amount: 2.410988
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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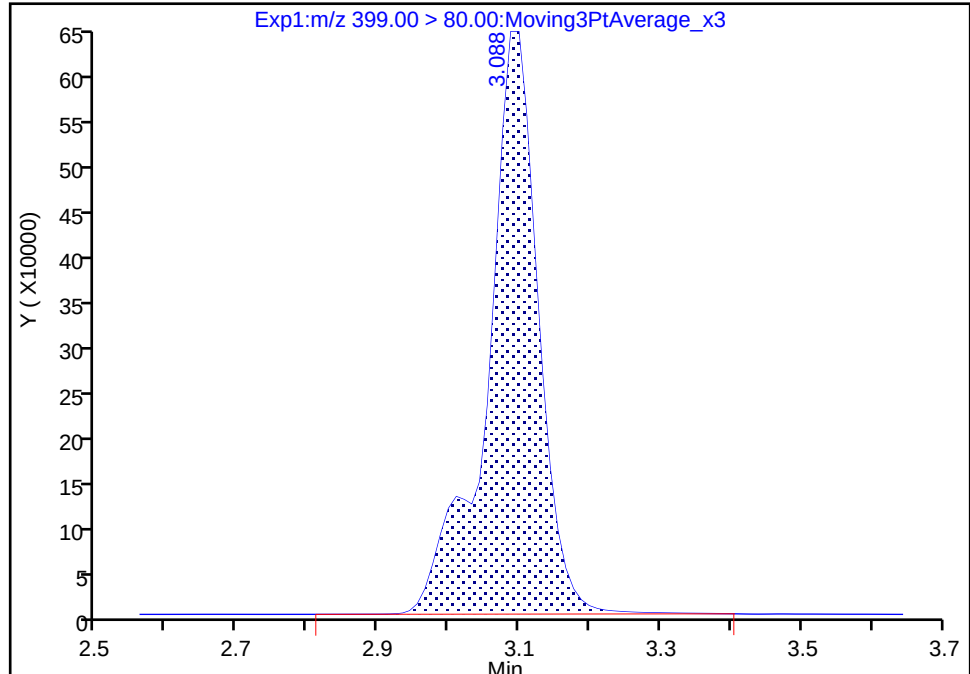
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

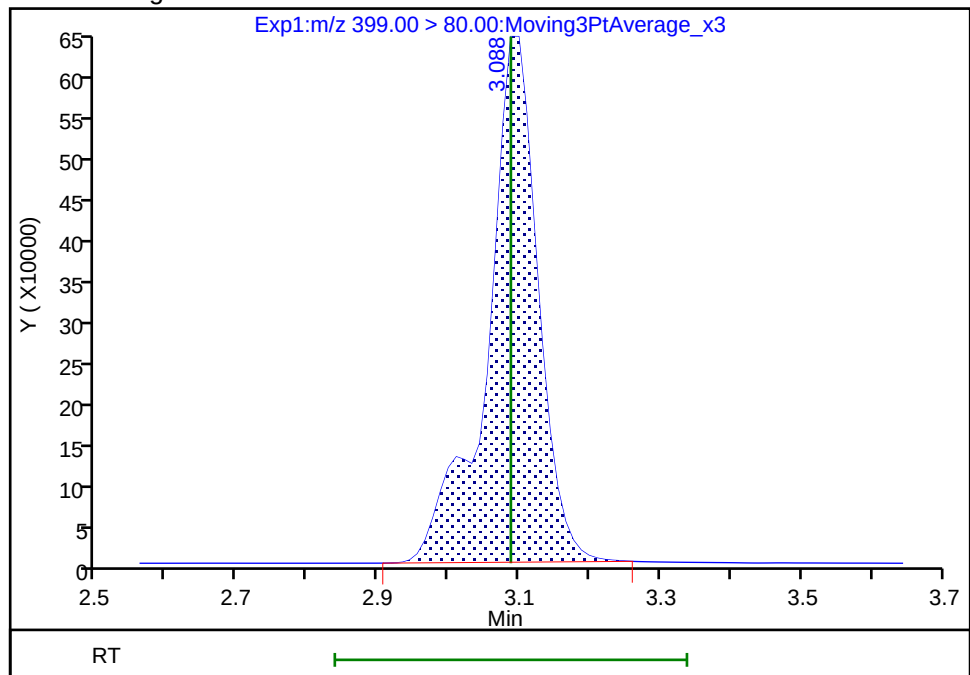
RT: 3.09
Area: 3243457
Amount: 2.251723
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3217665
Amount: 2.268961
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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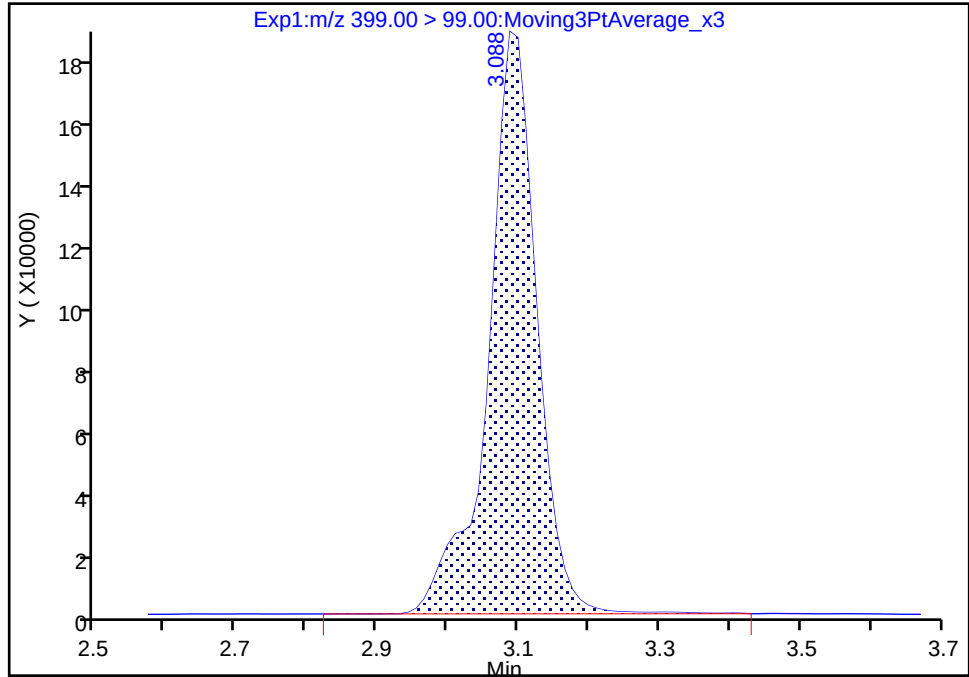
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

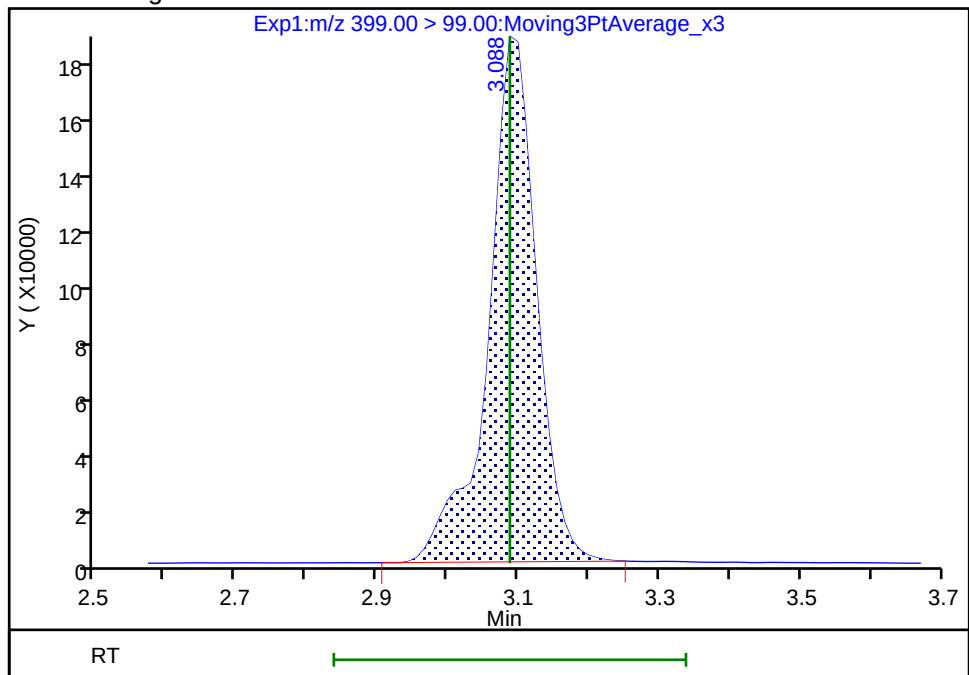
RT: 3.09
Area: 898780
Amount: 2.251723
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 889058
Amount: 2.268961
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

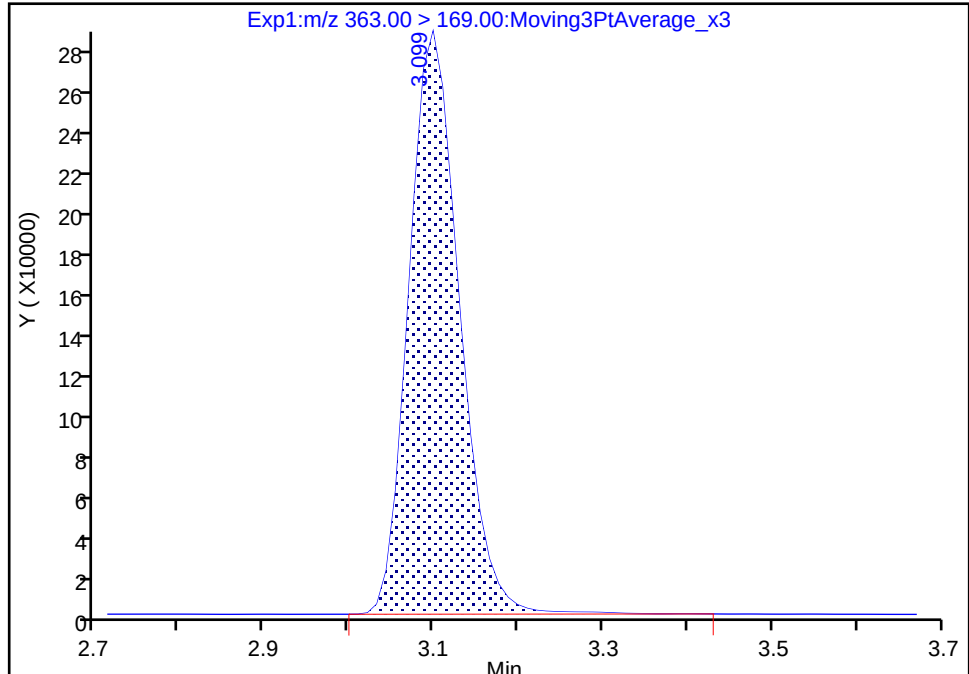
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

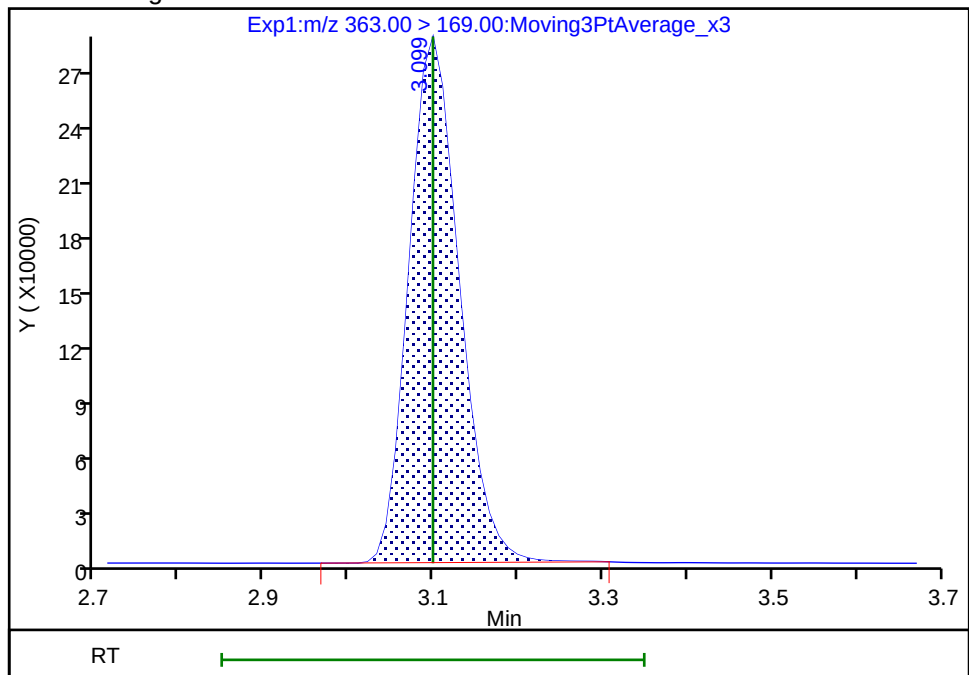
RT: 3.10
Area: 1190139
Amount: 2.284231
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1182521
Amount: 2.331429
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

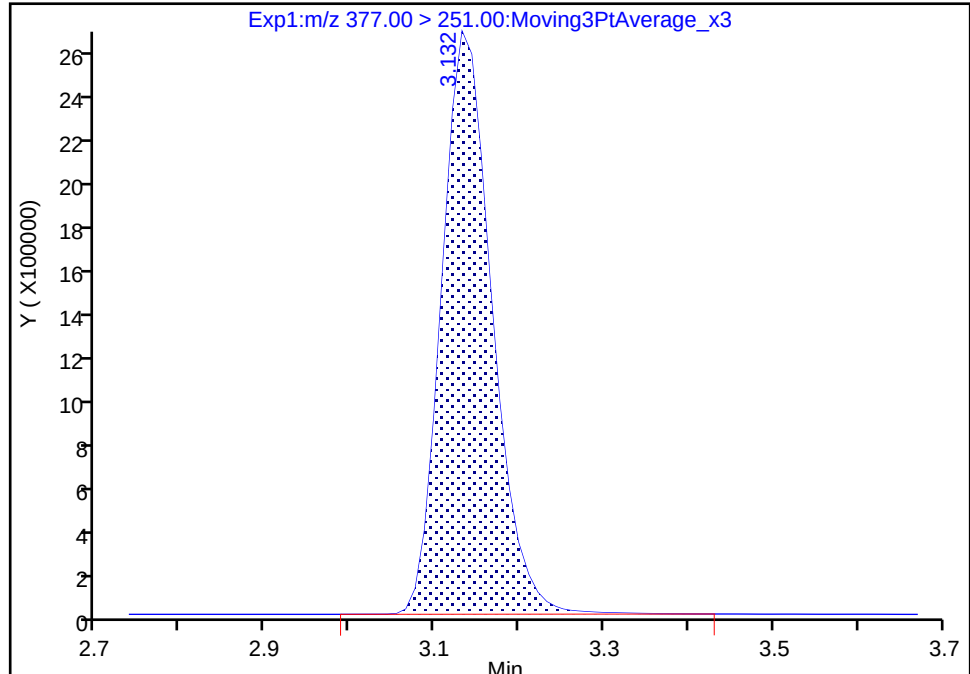
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d		
Injection Date:	18-Nov-2022 15:02:36	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	6 Worklist Smp#: 9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

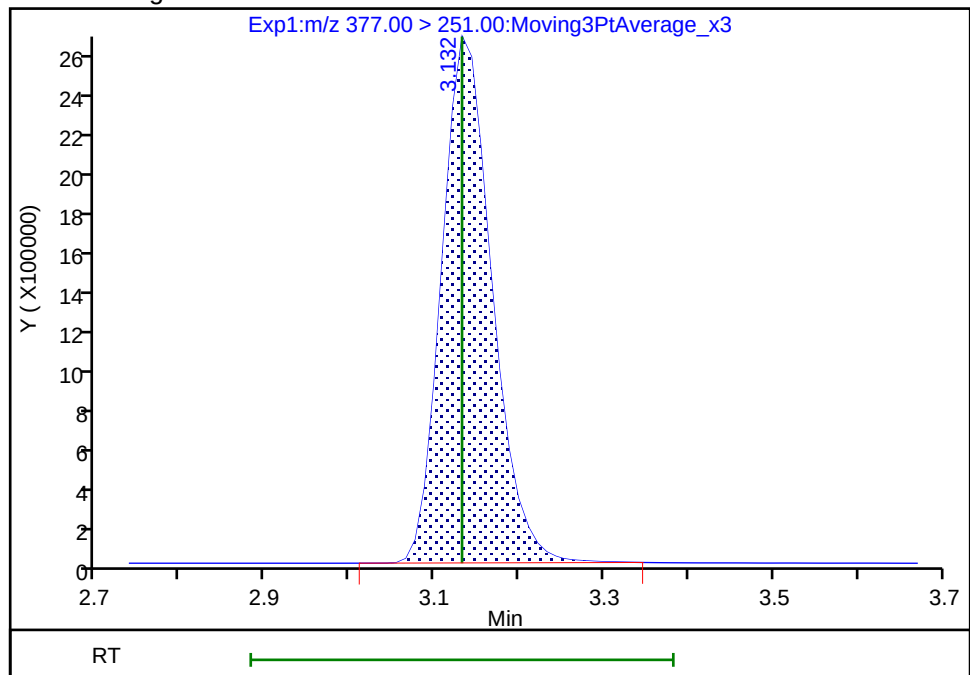
RT: 3.13
Area: 10854434
Amount: 2.160250
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 10824421
Amount: 2.237483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

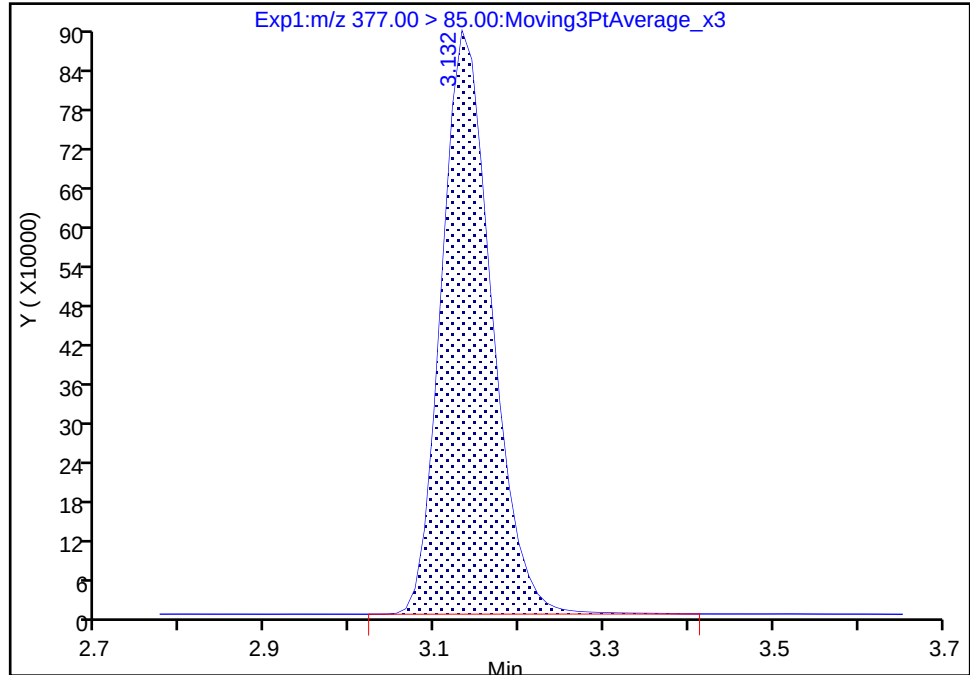
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

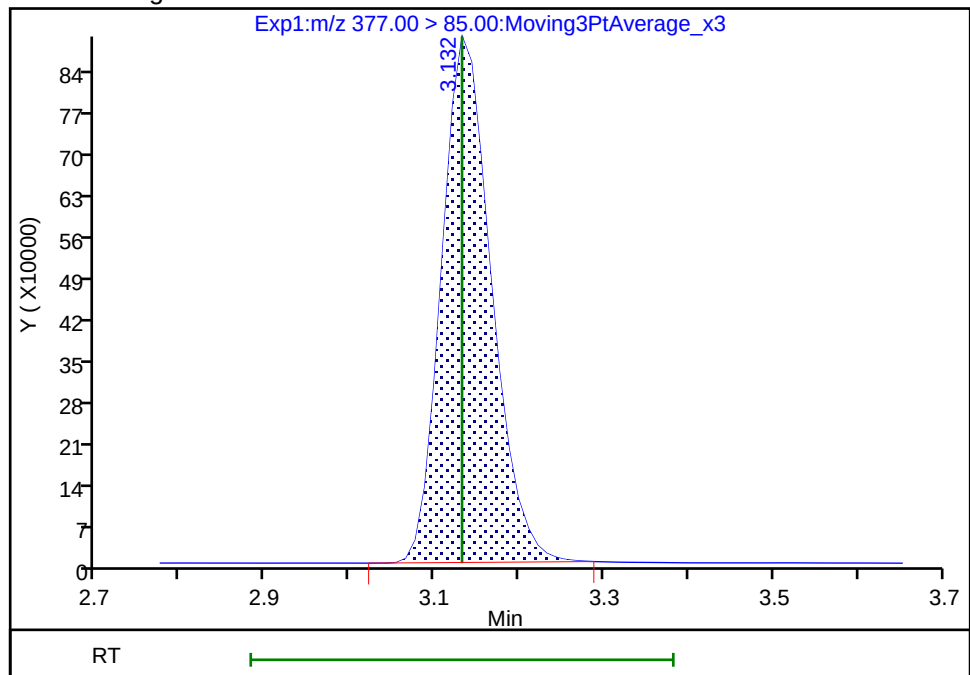
RT: 3.13
Area: 3658251
Amount: 2.160250
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 3633058
Amount: 2.237483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

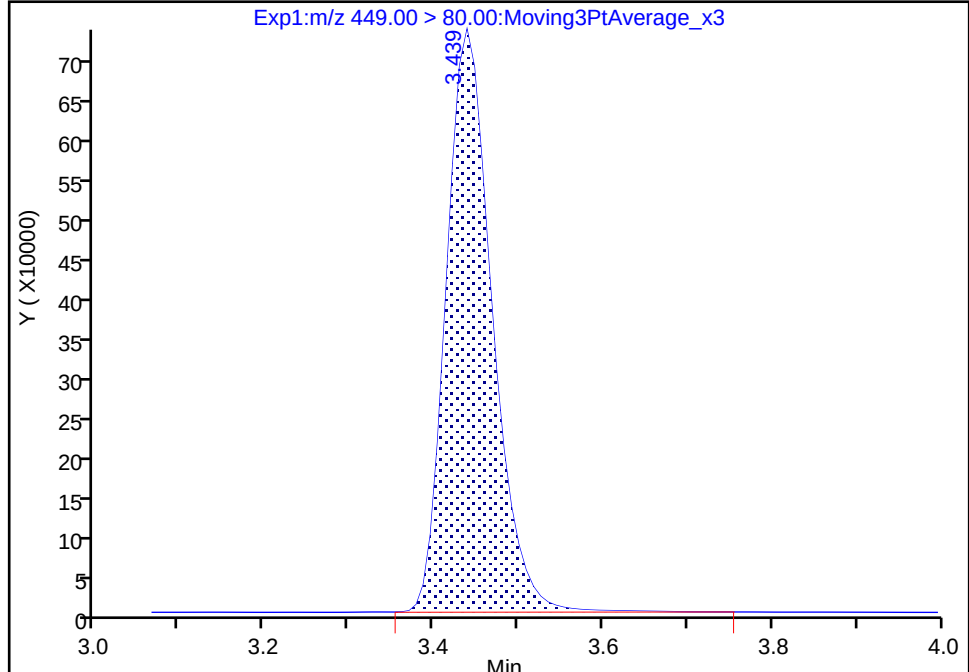
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

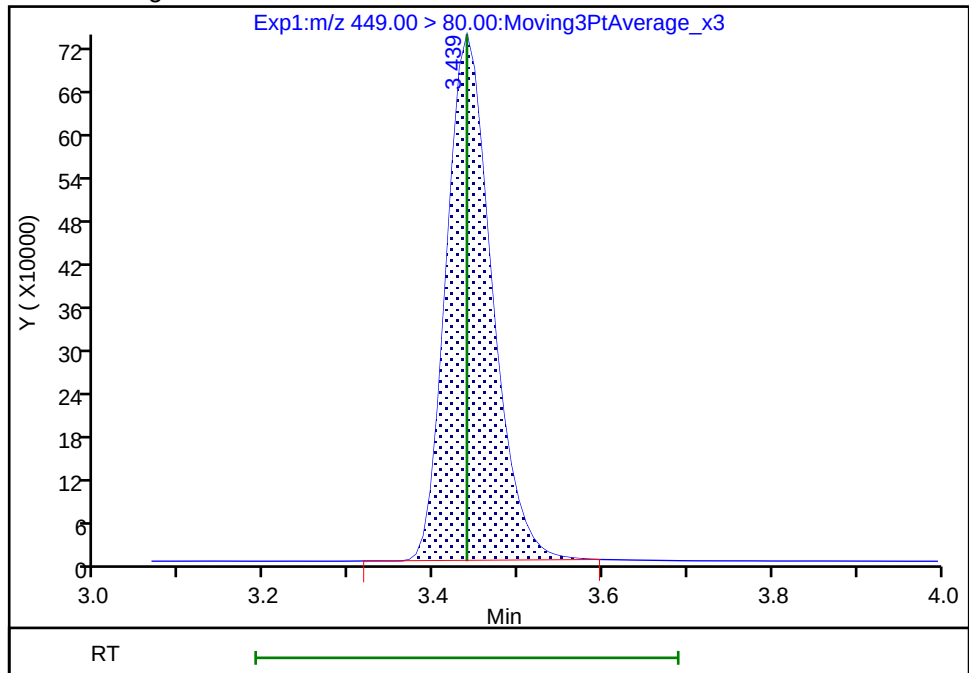
RT: 3.44
Area: 2770748
Amount: 2.218630
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2744265
Amount: 2.236625
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

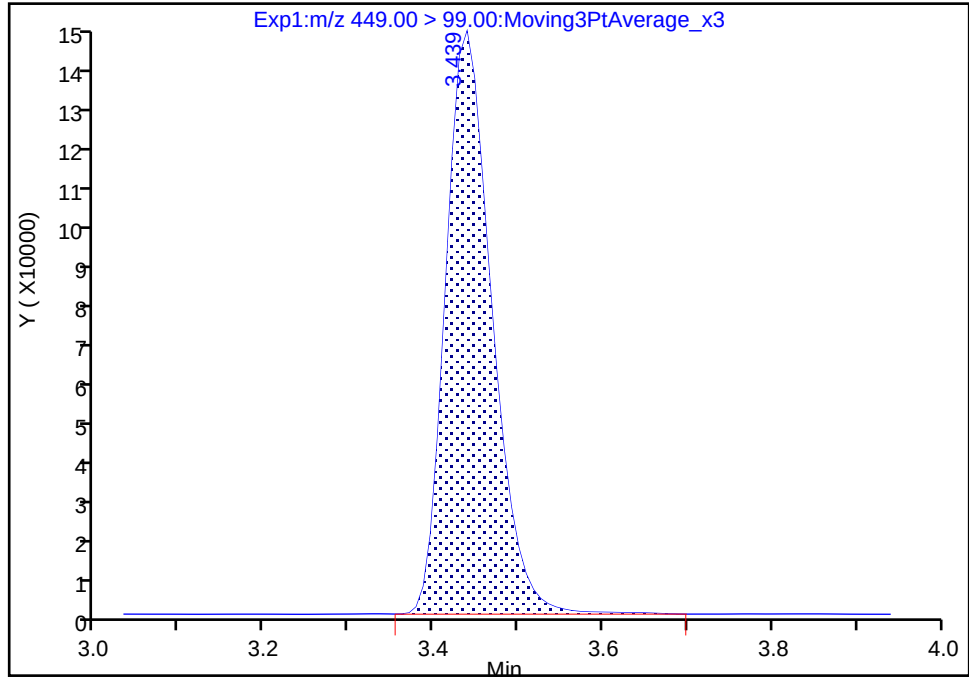
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

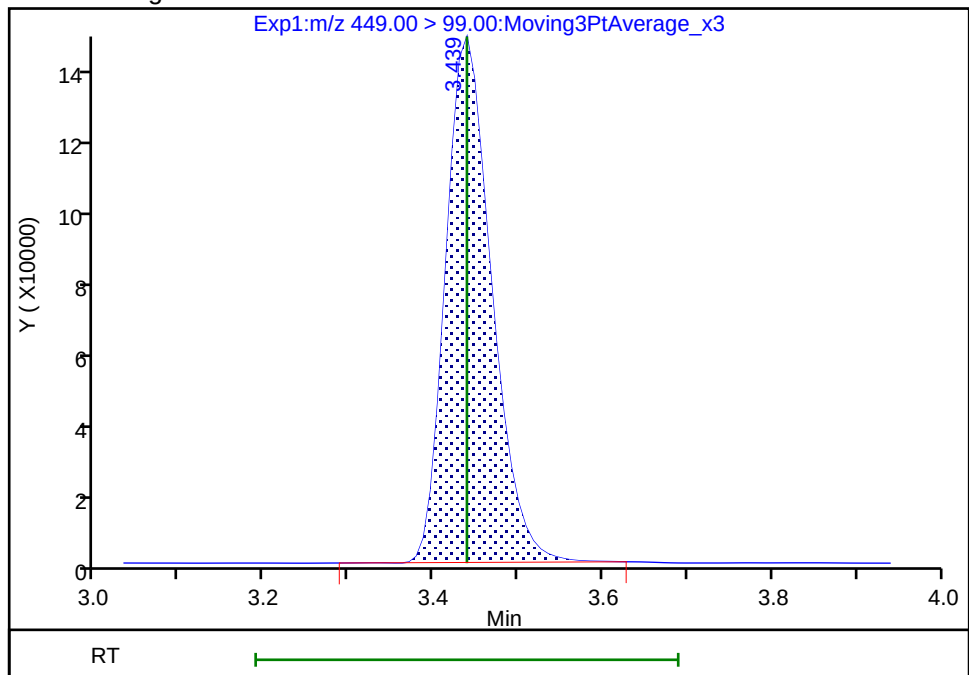
RT: 3.44
Area: 547308
Amount: 2.218630
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 543093
Amount: 2.236625
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

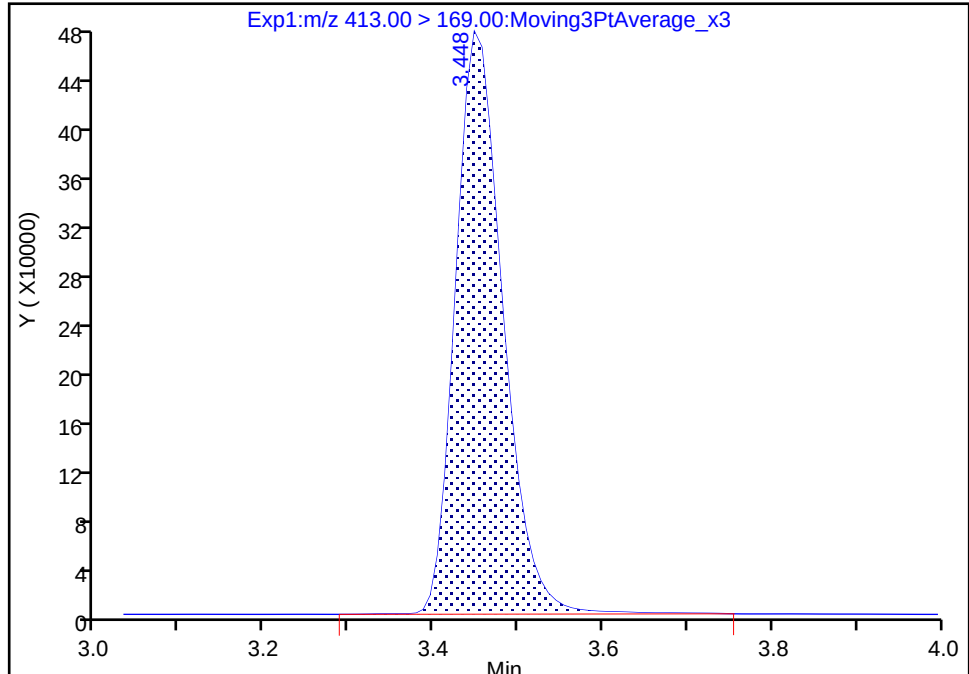
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

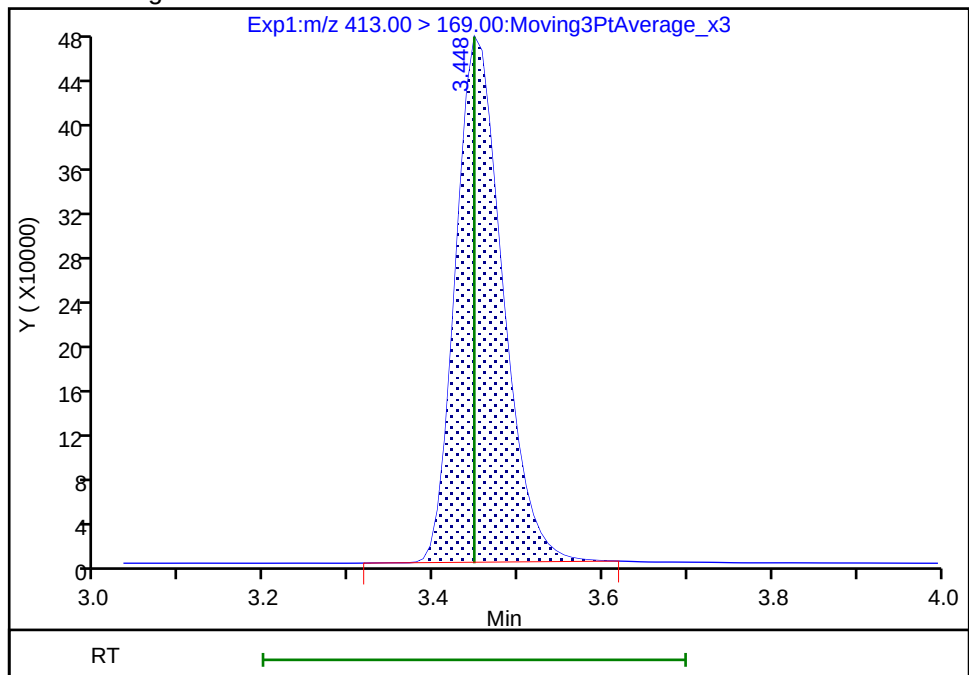
RT: 3.45
Area: 1843216
Amount: 2.392012
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1822258
Amount: 2.439483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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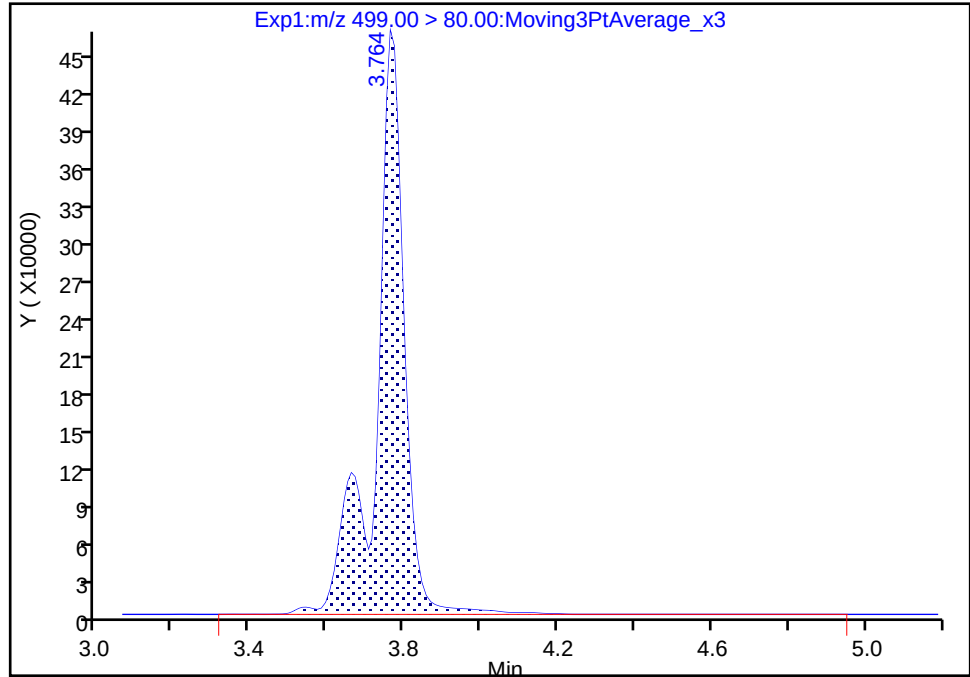
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

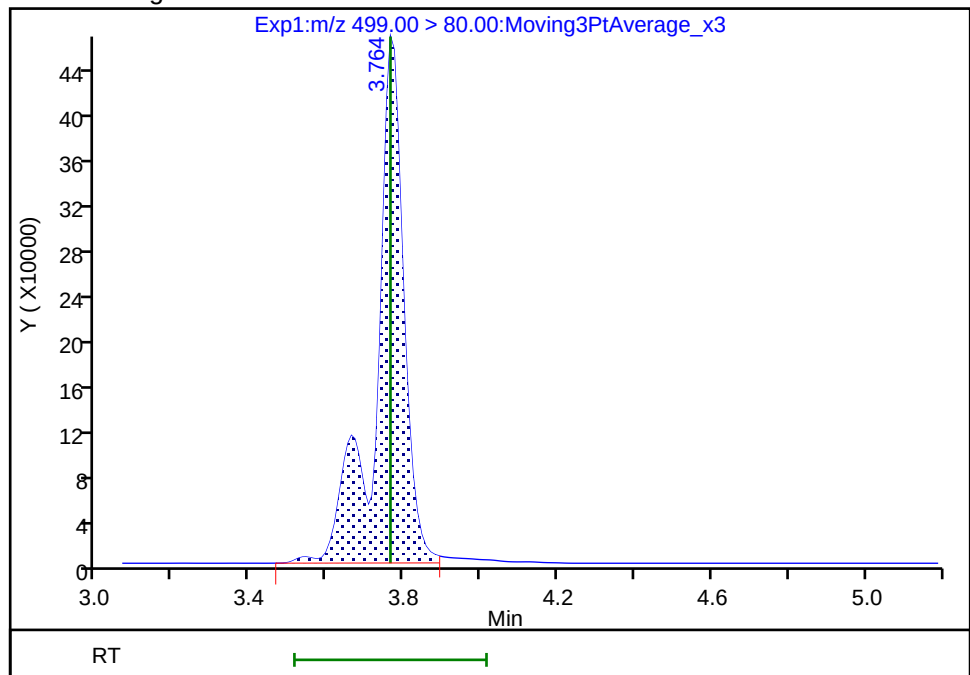
RT: 3.76
Area: 2390090
Amount: 2.188375
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2338057
Amount: 2.188506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

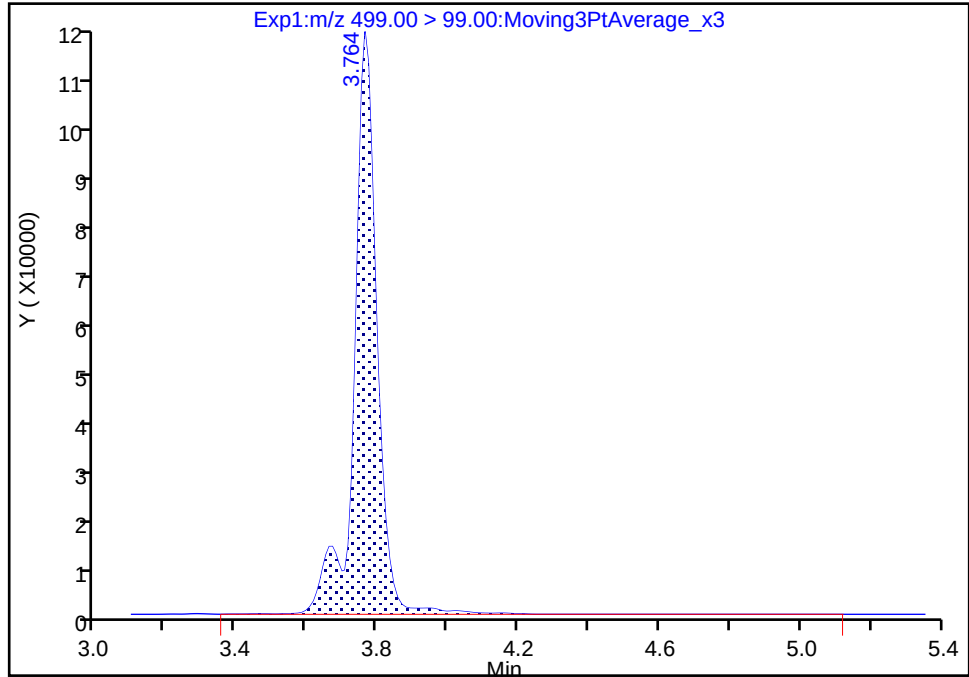
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

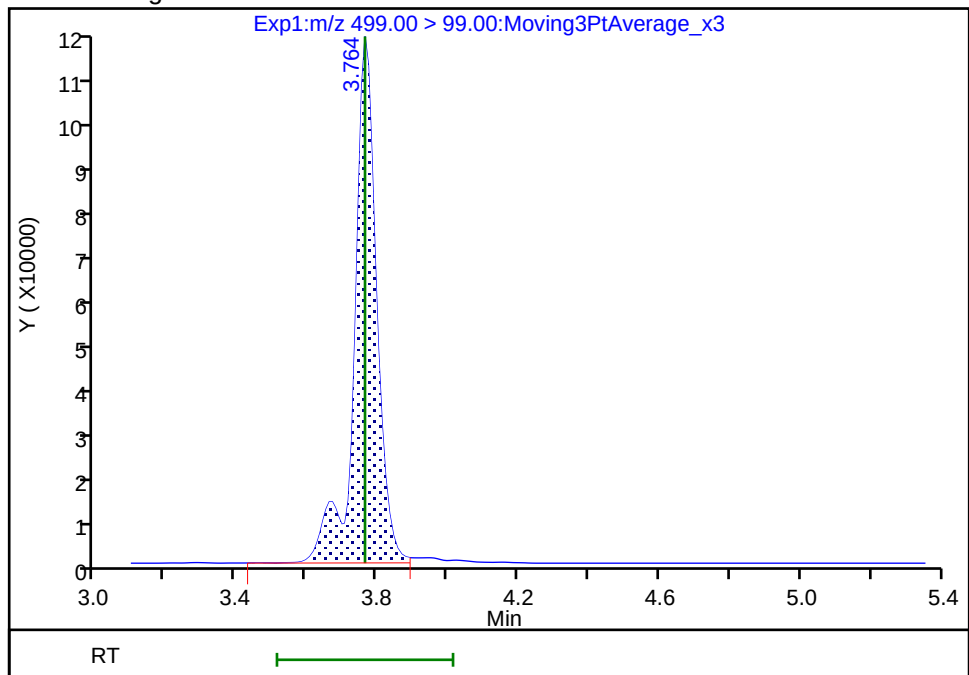
RT: 3.76
Area: 503068
Amount: 2.188375
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 491265
Amount: 2.188506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

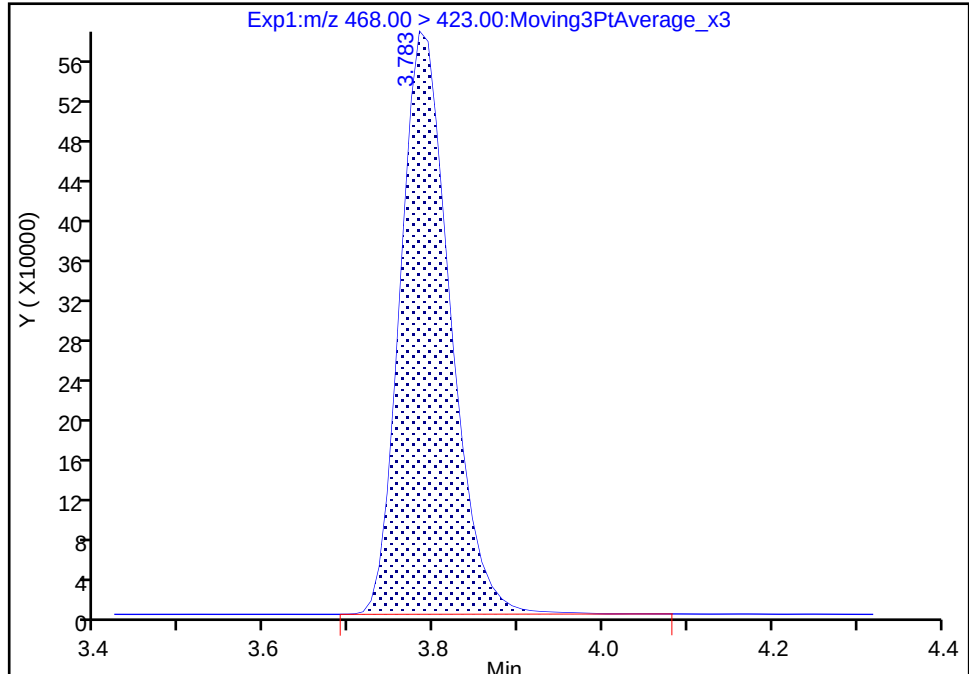
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

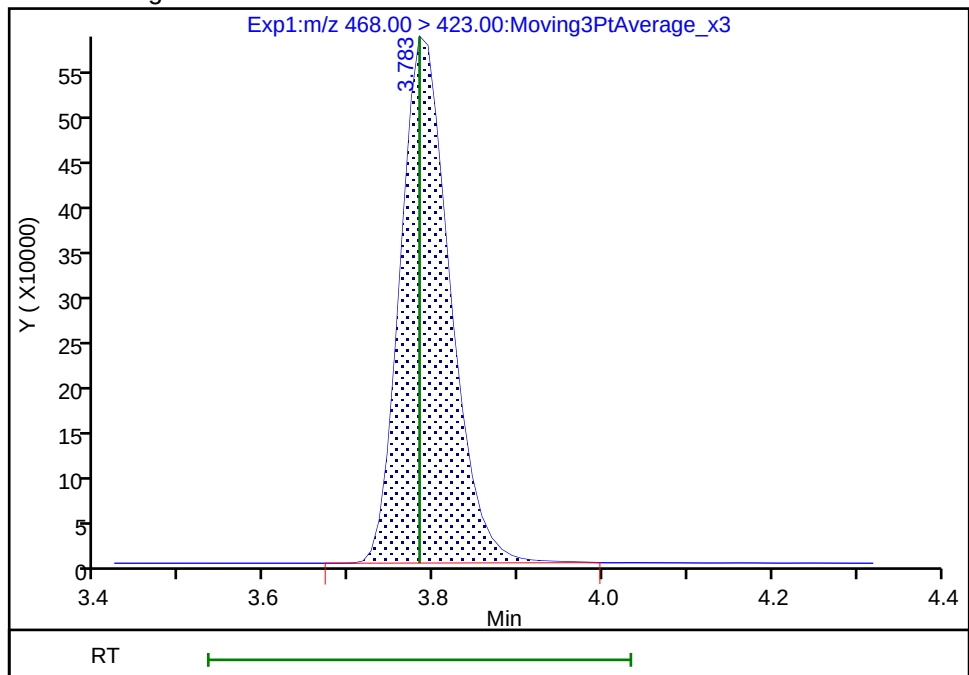
RT: 3.78
Area: 2405533
Amount: 1.262145
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2401890
Amount: 1.260675
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

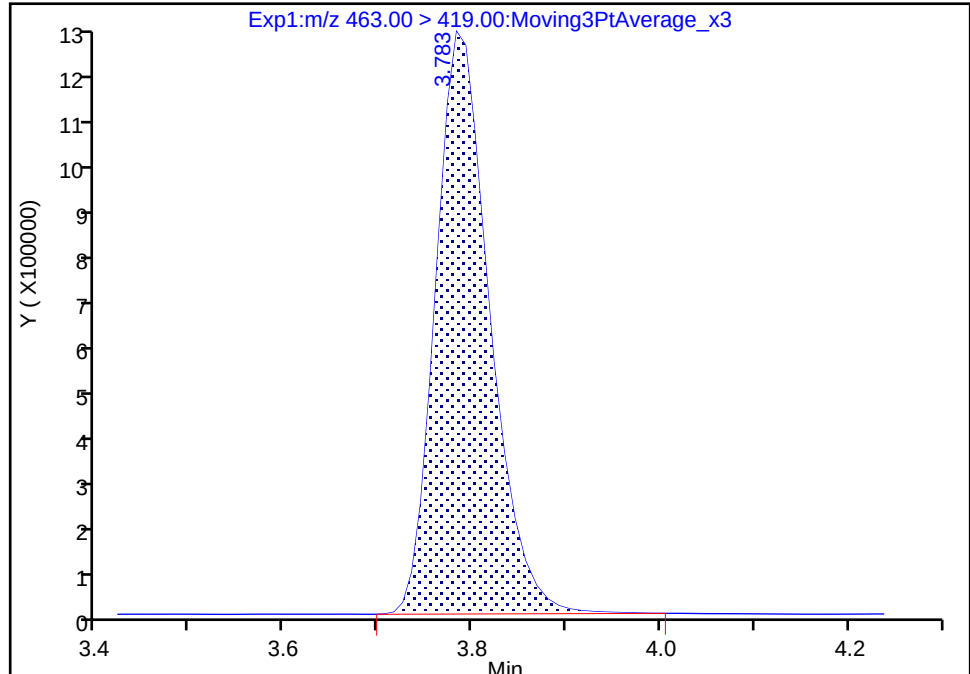
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

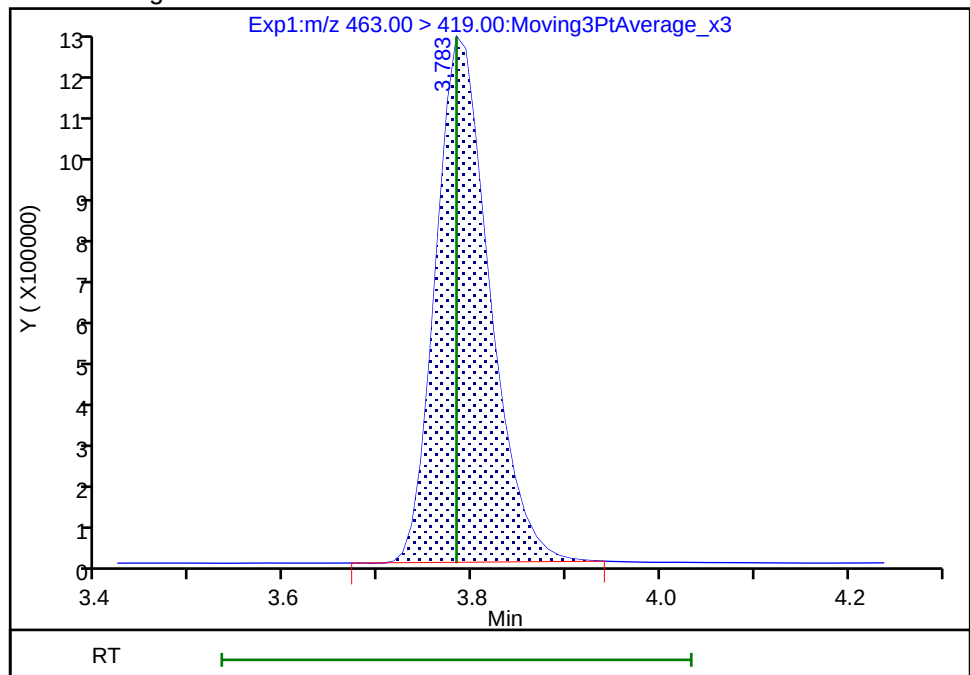
RT: 3.78
Area: 4963599
Amount: 2.455713
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 4930997
Amount: 2.473798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

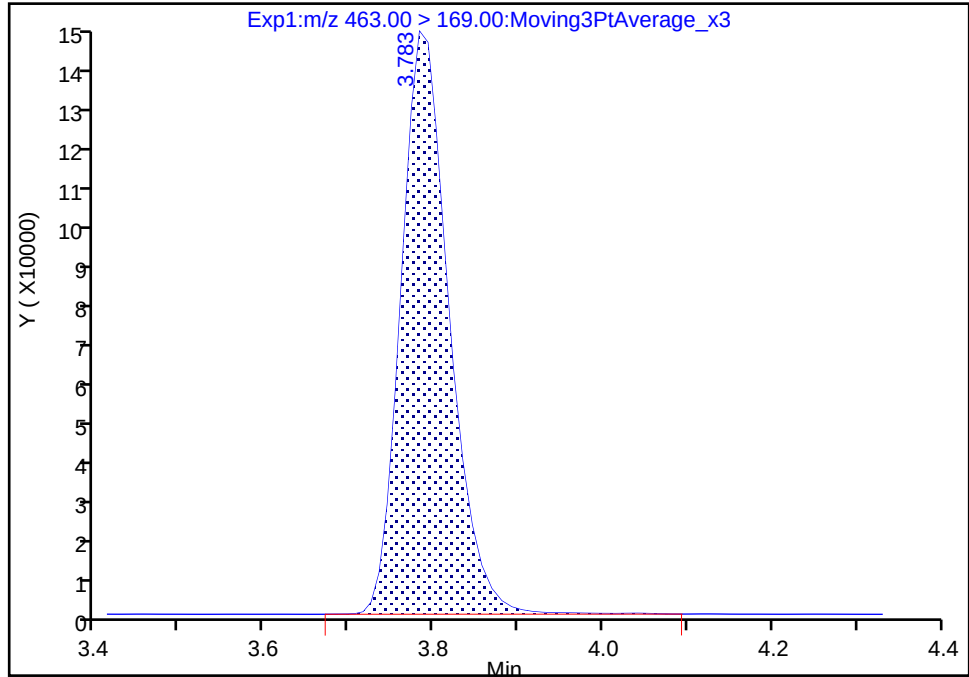
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

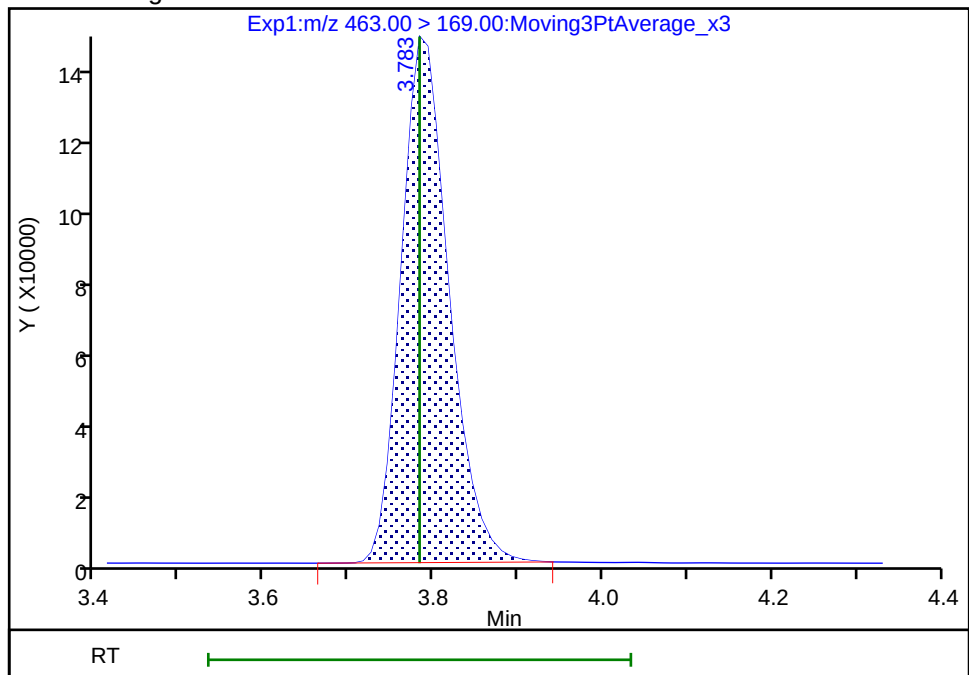
RT: 3.78
Area: 590176
Amount: 2.455713
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 586103
Amount: 2.473798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

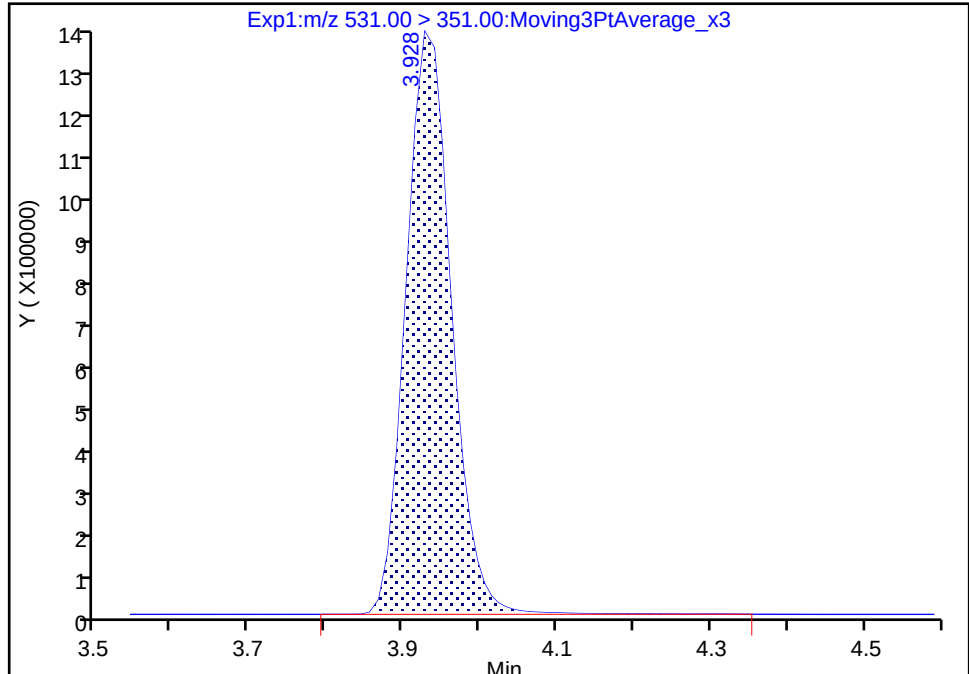
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

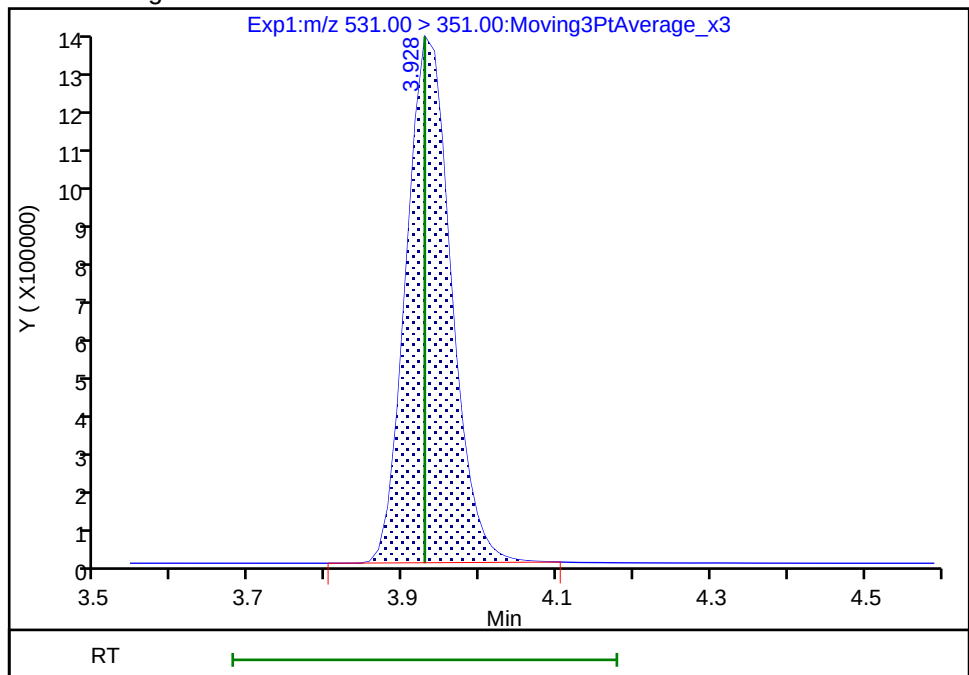
RT: 3.93
Area: 5551905
Amount: 2.217261
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 5512960
Amount: 2.248411
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

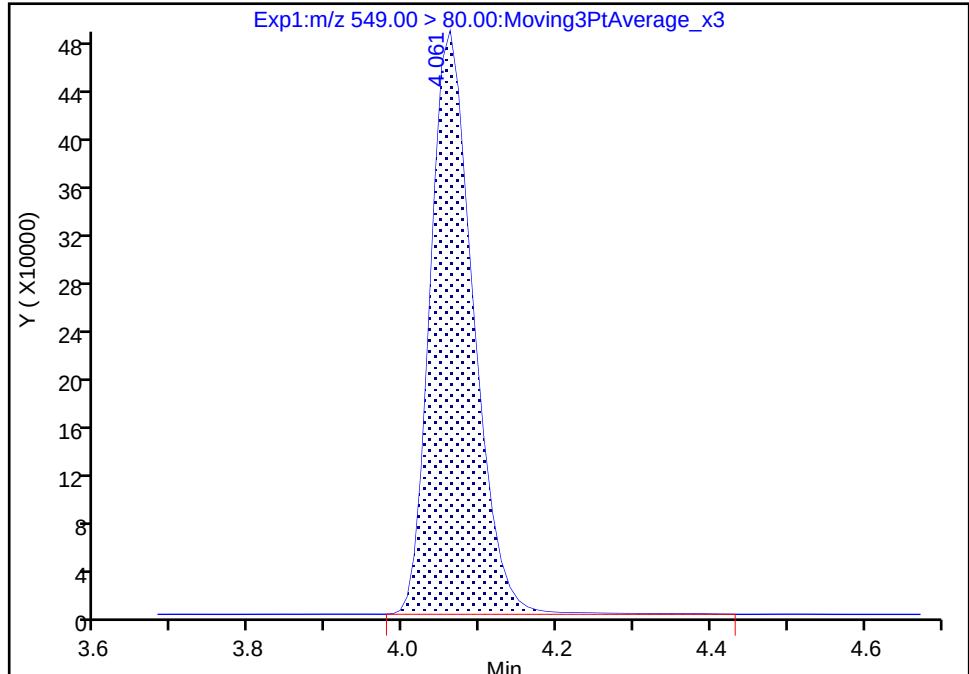
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

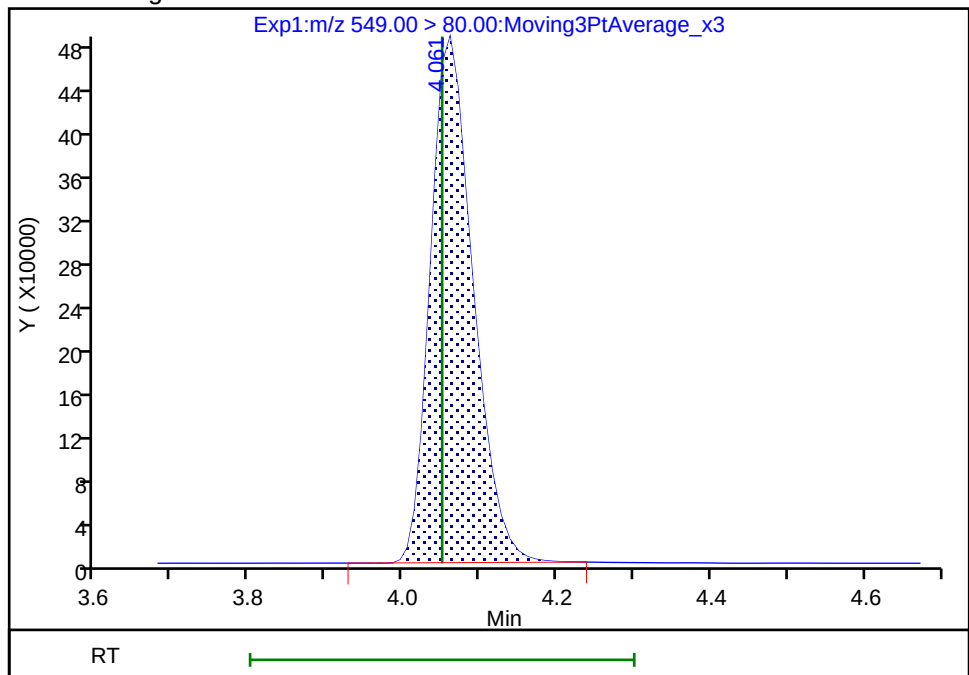
RT: 4.06
Area: 1886351
Amount: 2.304603
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 1871298
Amount: 2.320704
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

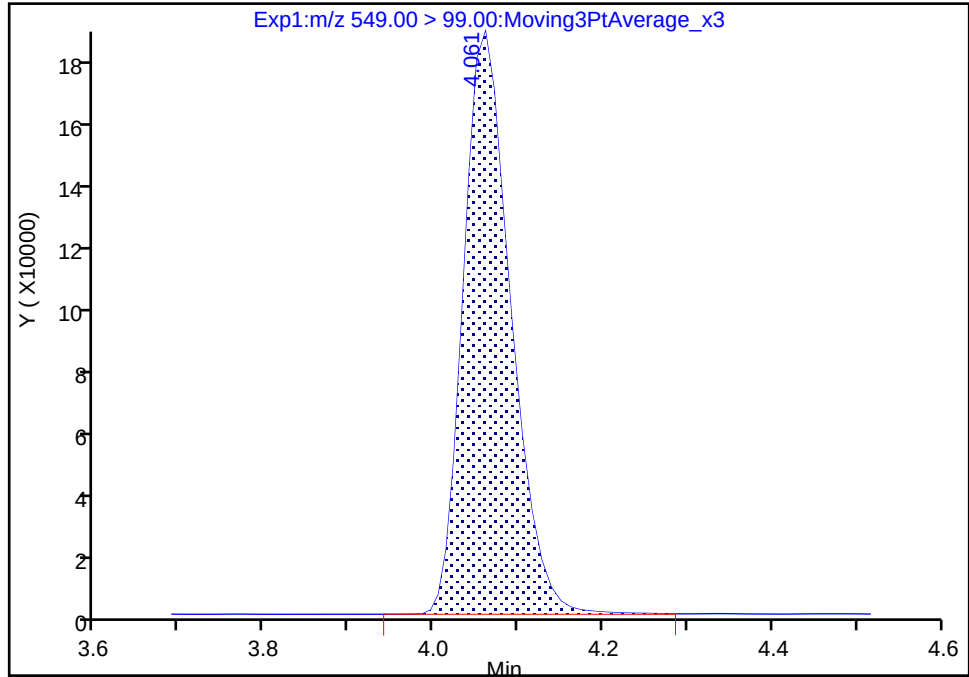
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

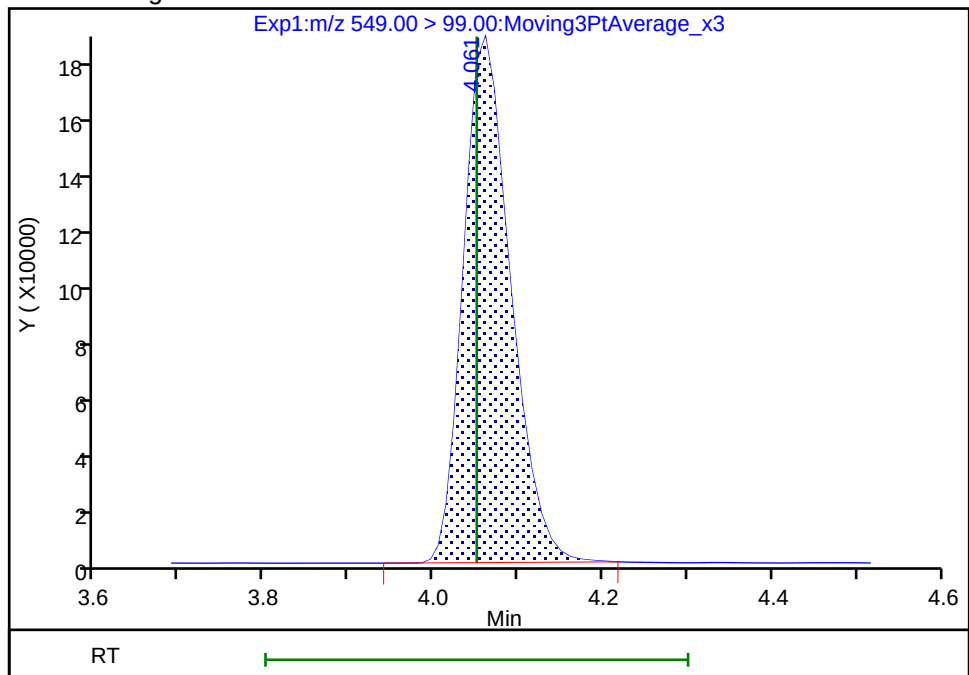
RT: 4.06
Area: 731815
Amount: 2.304603
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 726837
Amount: 2.320704
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

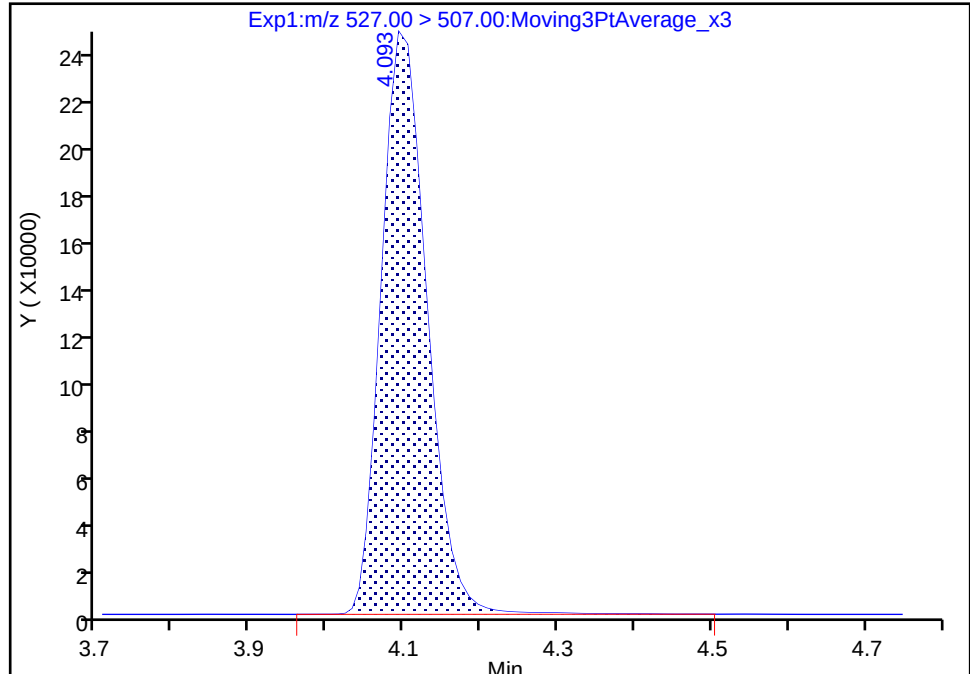
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

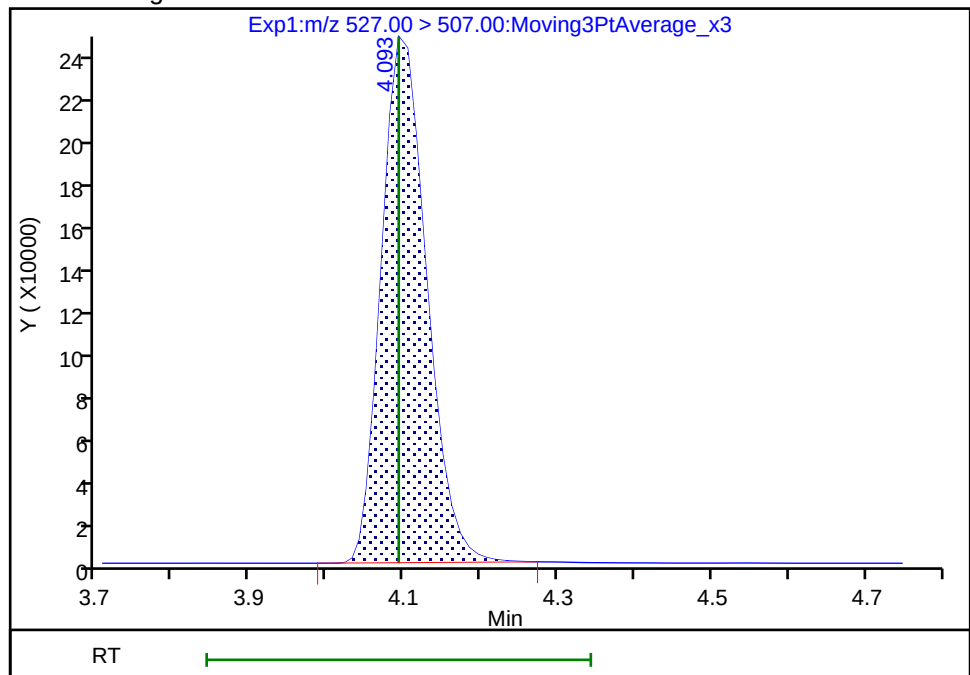
RT: 4.09
Area: 1022916
Amount: 2.334633
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1014644
Amount: 2.339445
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

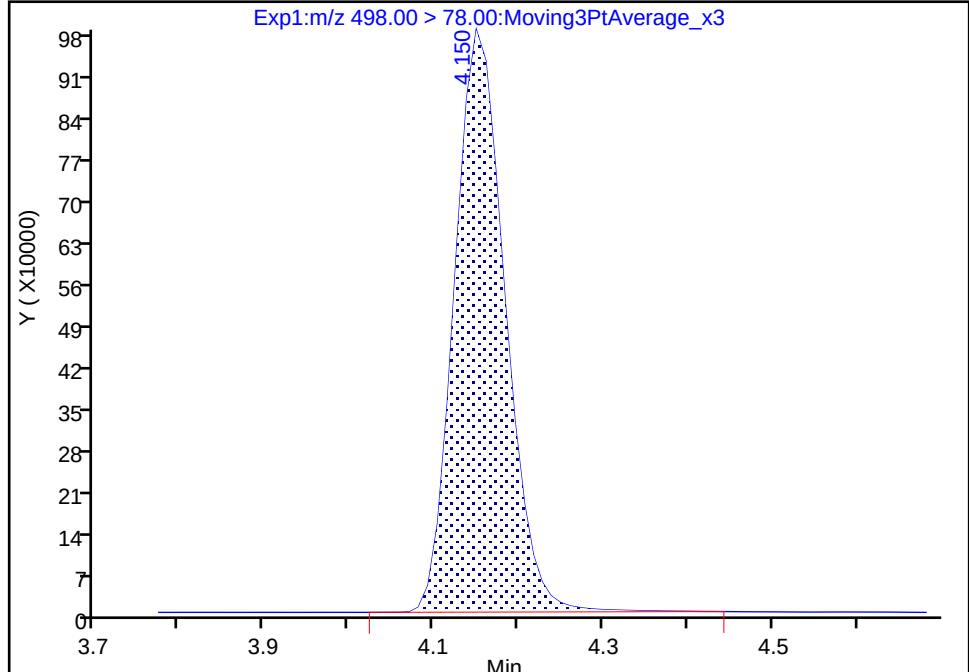
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

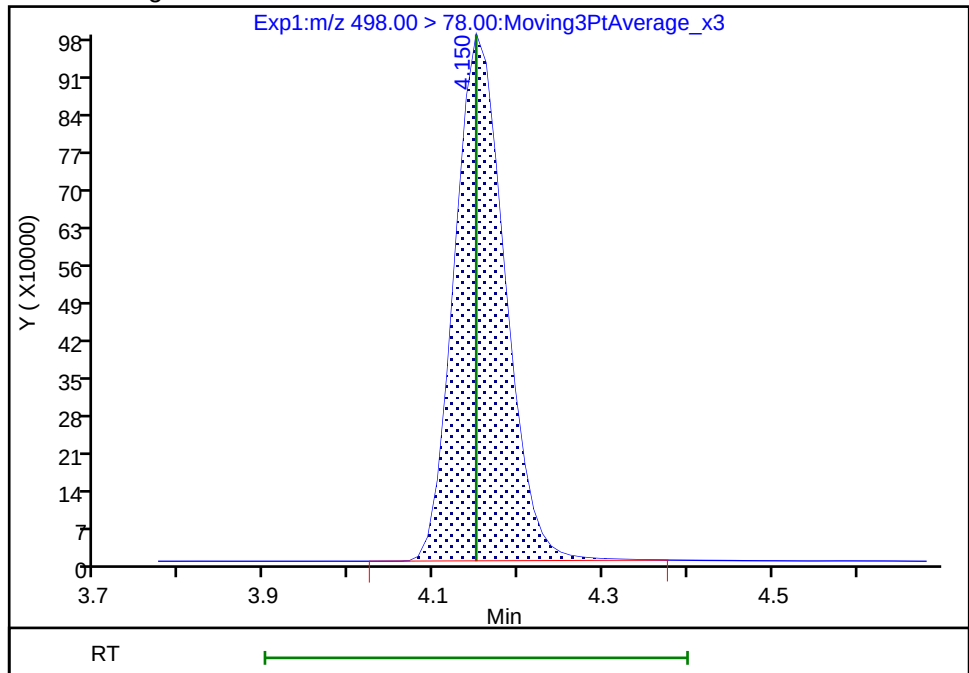
RT: 4.15
Area: 4106928
Amount: 2.428009
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 4094524
Amount: 2.457676
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

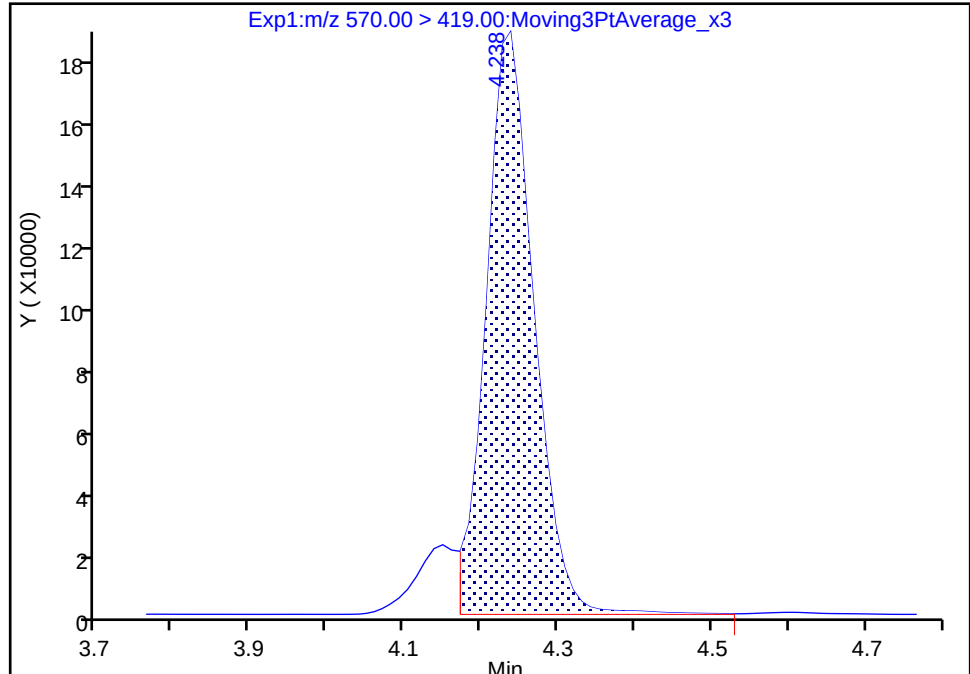
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

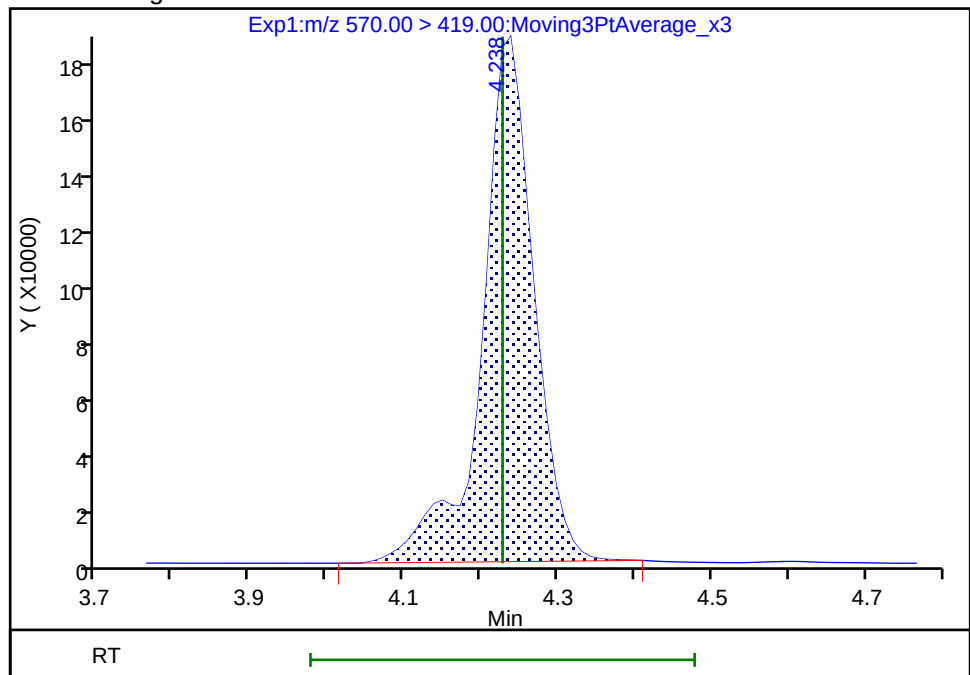
RT: 4.24
Area: 804661
Amount: 2.140771
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 873622
Amount: 2.456951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

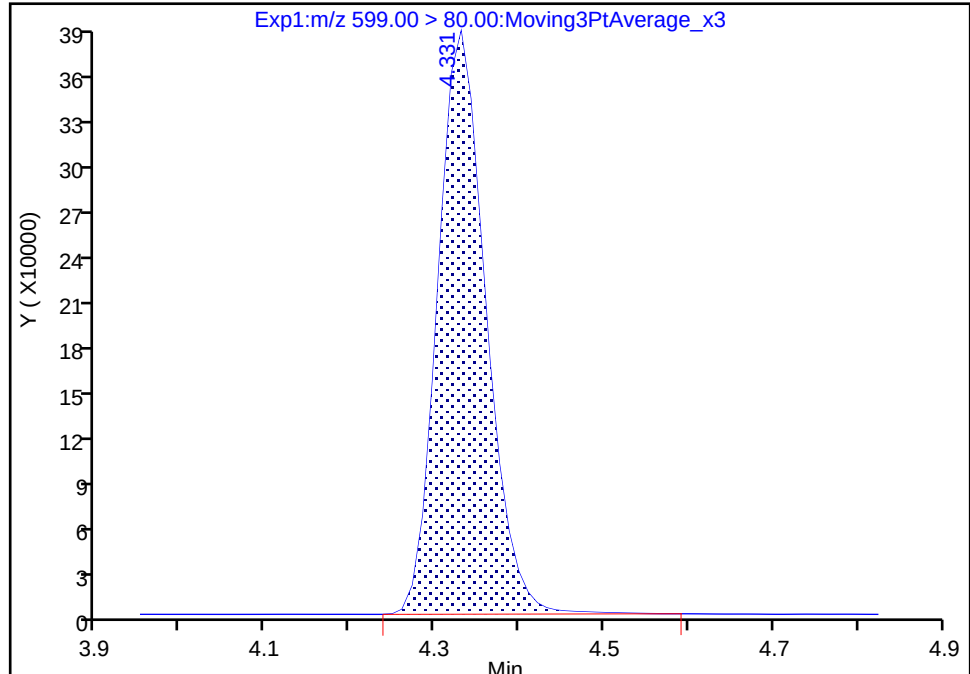
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

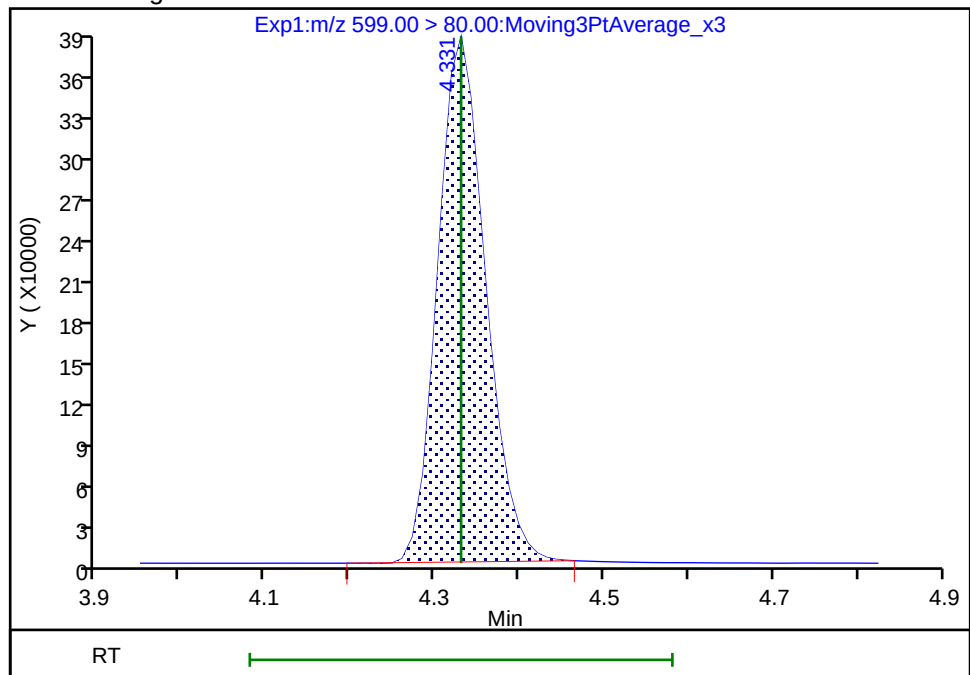
RT: 4.33
Area: 1514276
Amount: 2.351873
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 1496790
Amount: 2.350920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

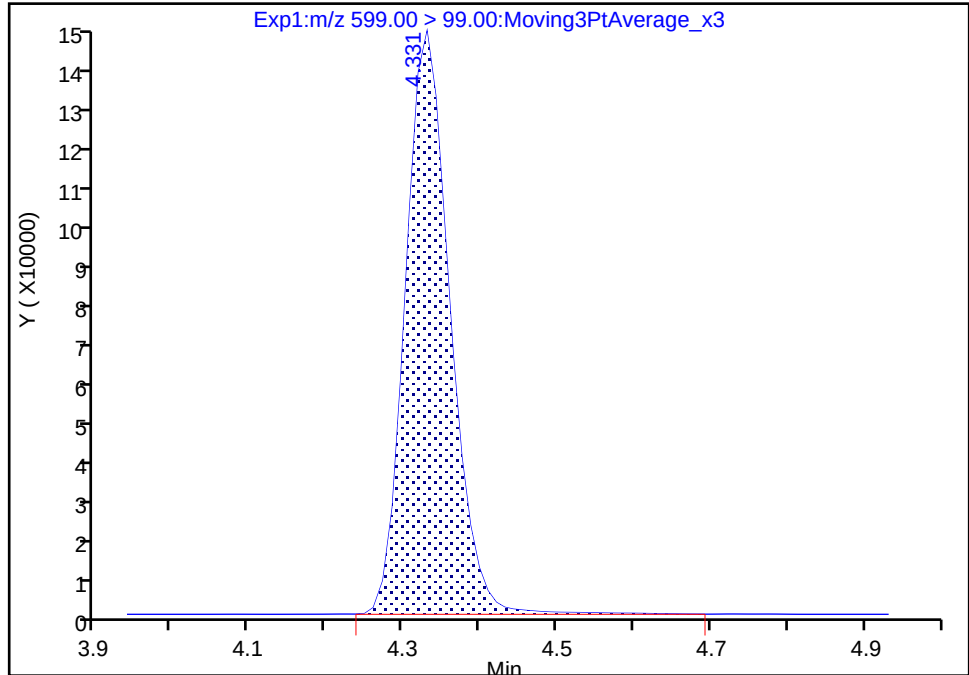
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

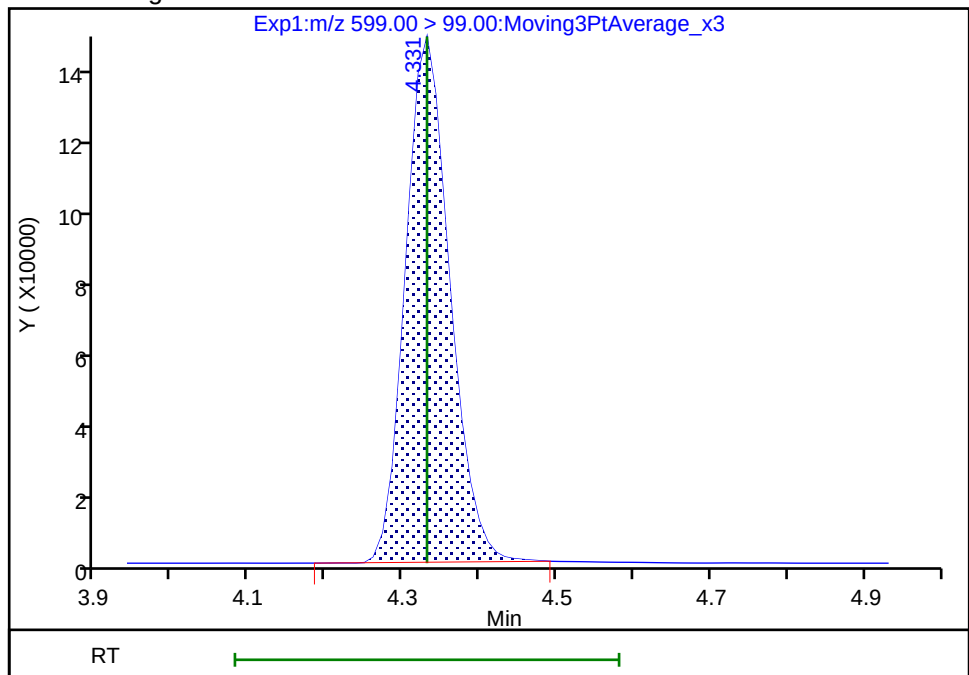
RT: 4.33
Area: 570570
Amount: 2.351873
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 562866
Amount: 2.350920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

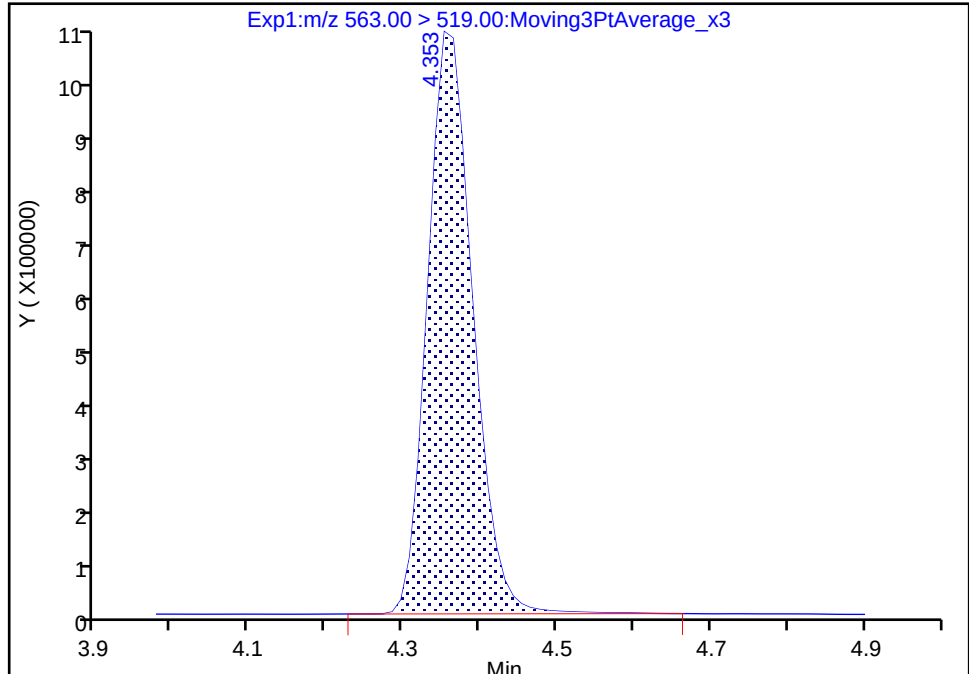
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

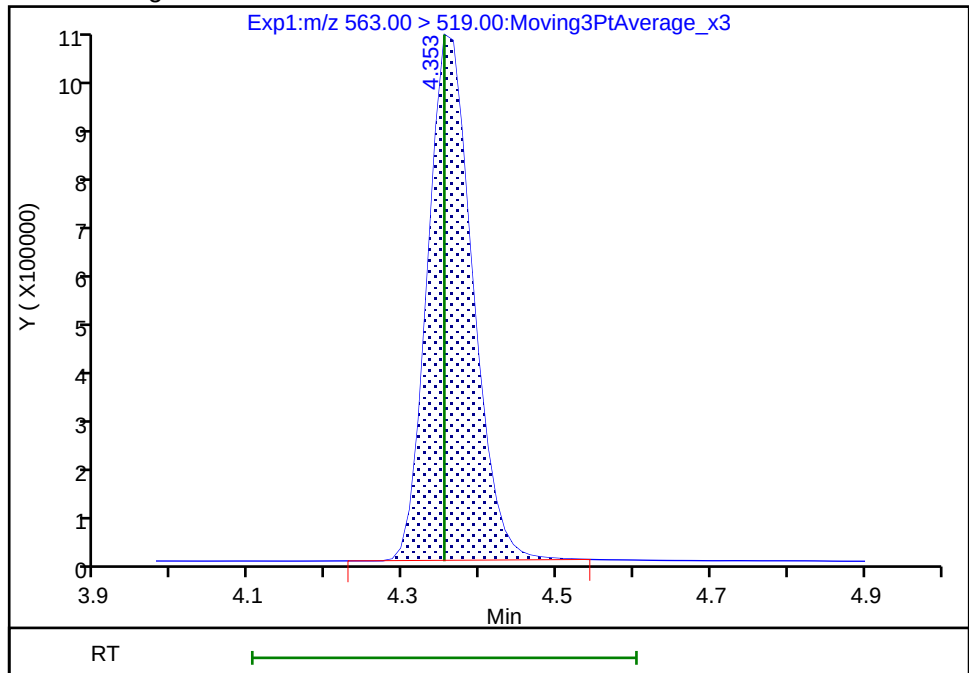
RT: 4.35
Area: 4342724
Amount: 2.330777
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 4311823
Amount: 2.366739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

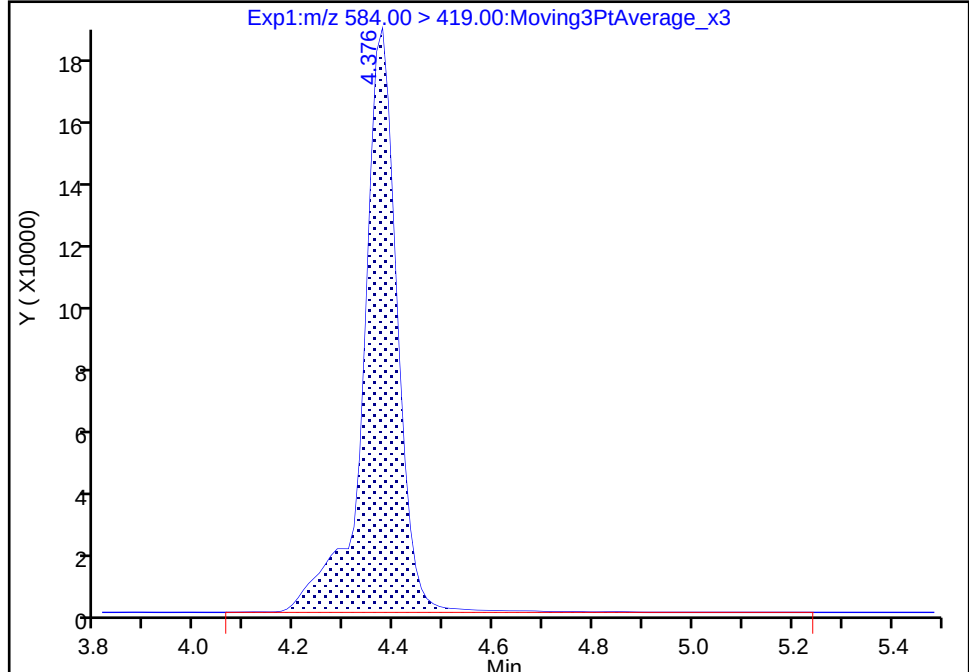
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

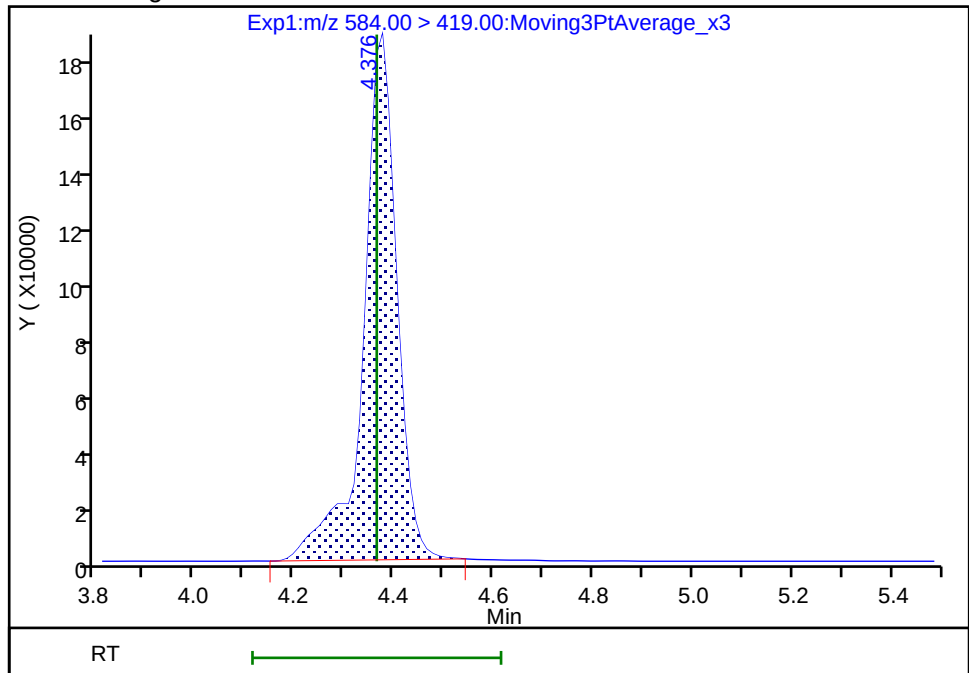
RT: 4.38
Area: 865426
Amount: 2.394972
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 848987
Amount: 2.386775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

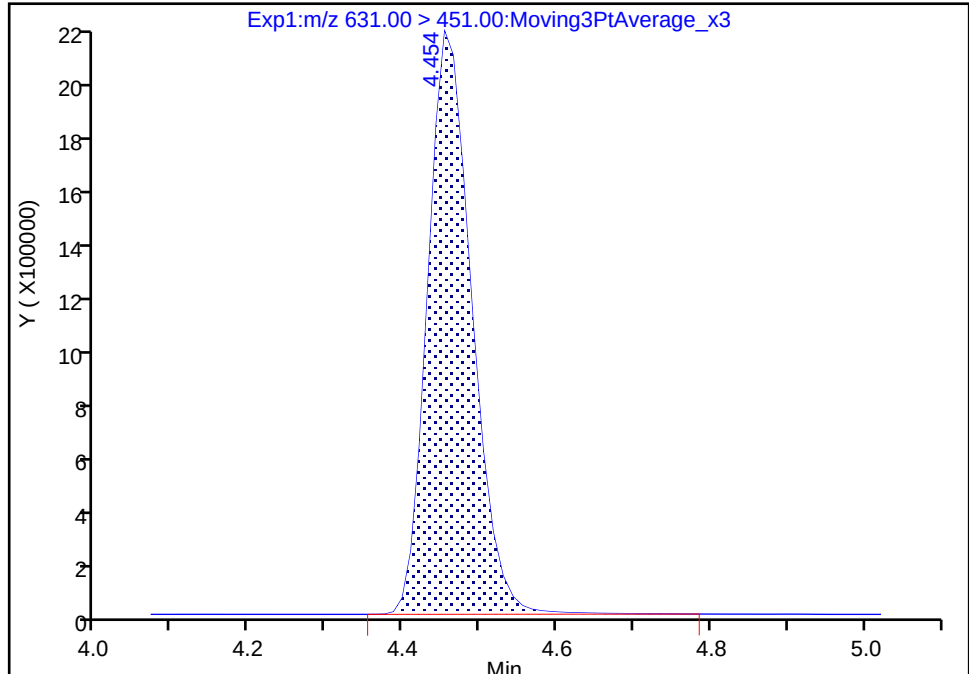
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

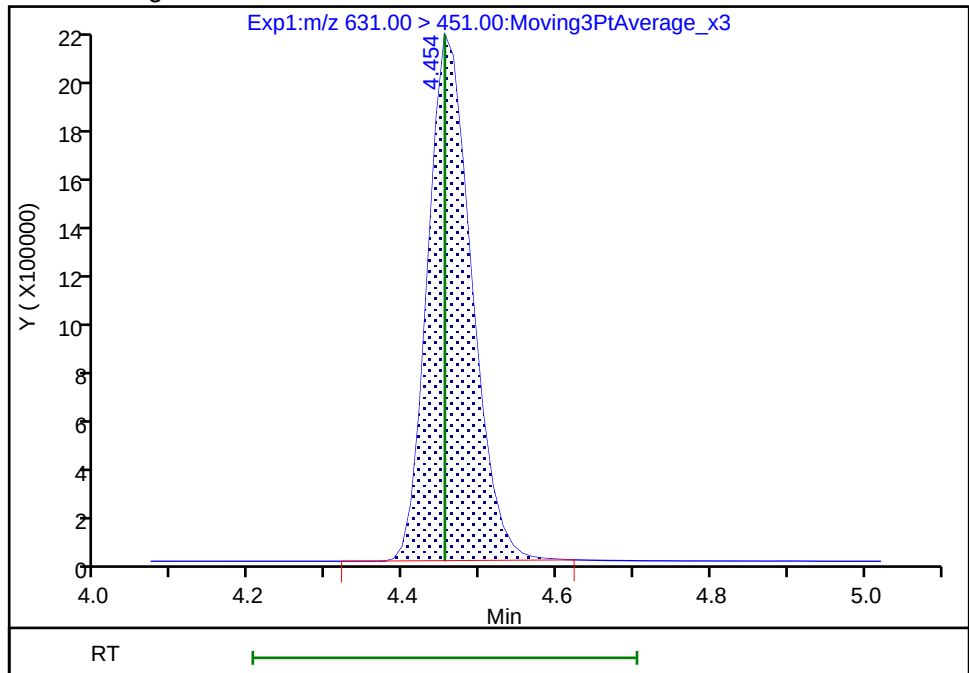
RT: 4.45
Area: 8707195
Amount: 2.232773
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 8644779
Amount: 2.287172
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

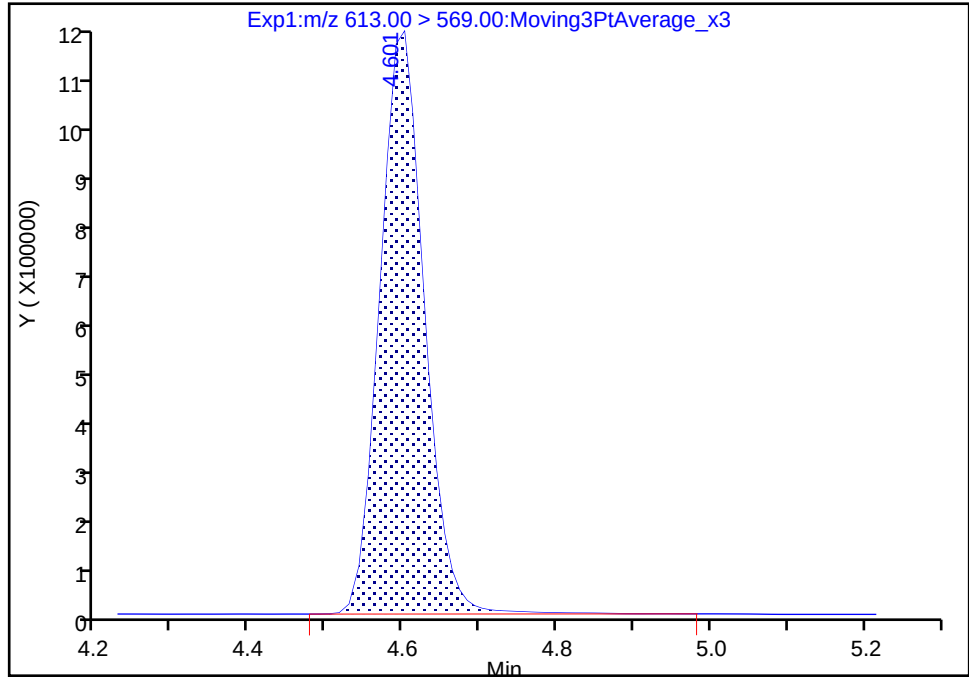
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

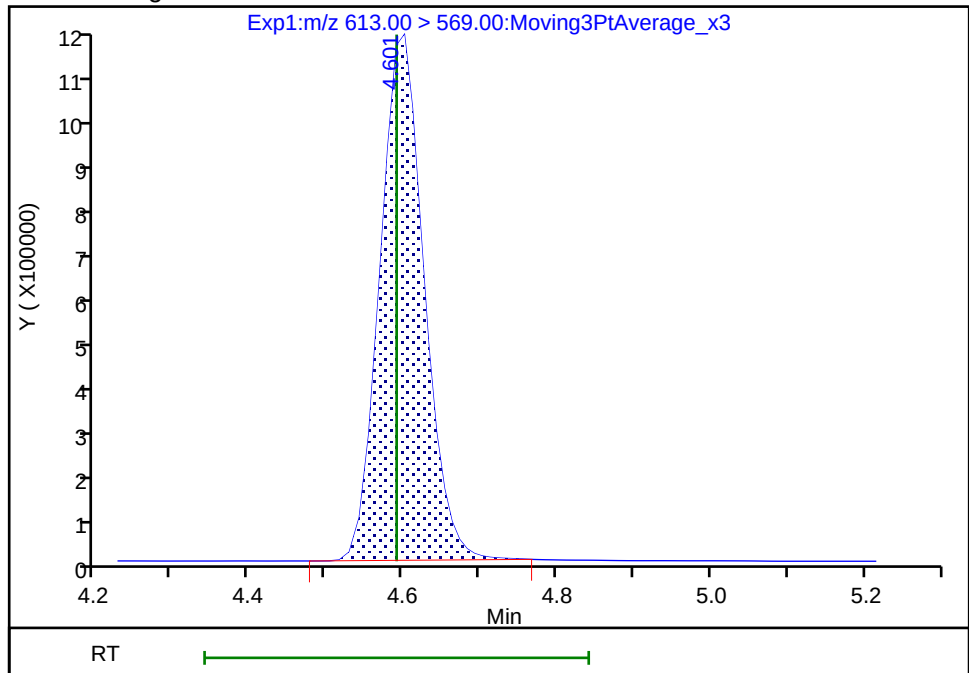
RT: 4.60
Area: 4561804
Amount: 2.236540
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 4520955
Amount: 2.275287
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

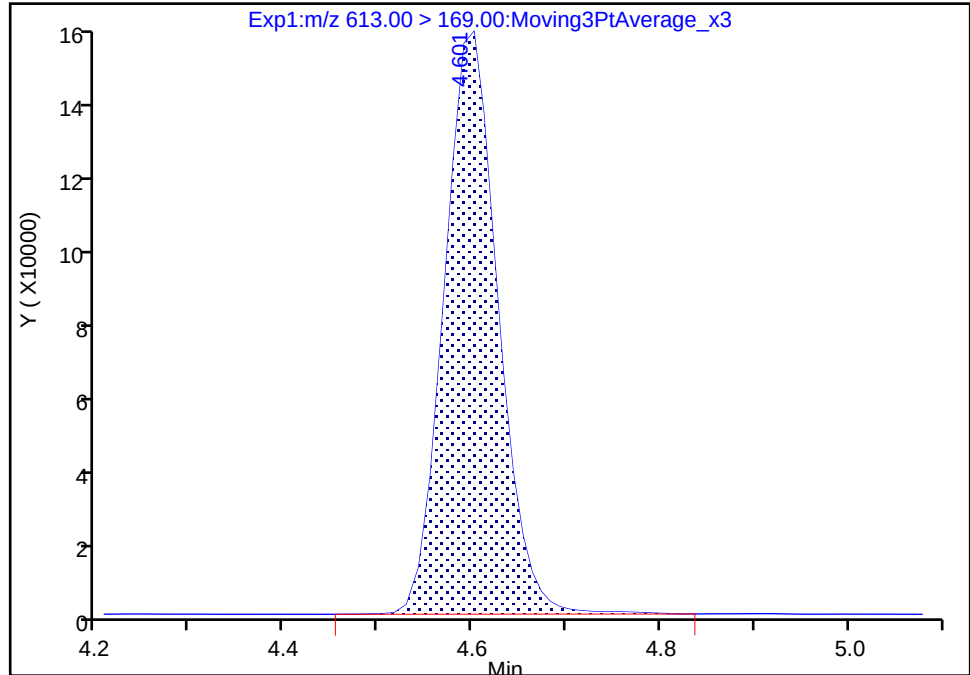
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

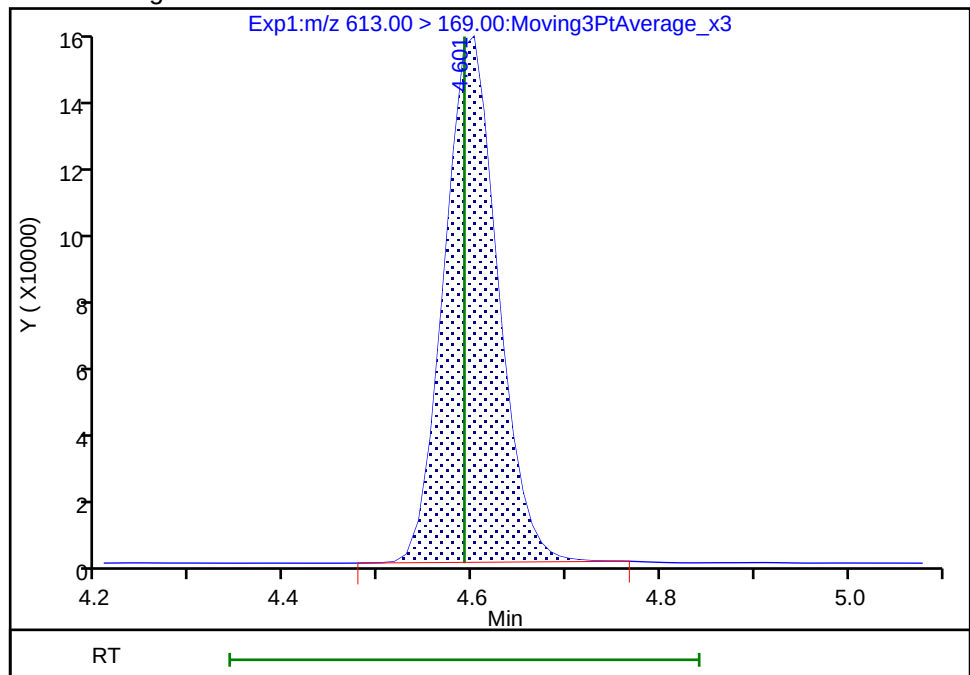
RT: 4.60
Area: 634336
Amount: 2.236540
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 628962
Amount: 2.275287
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

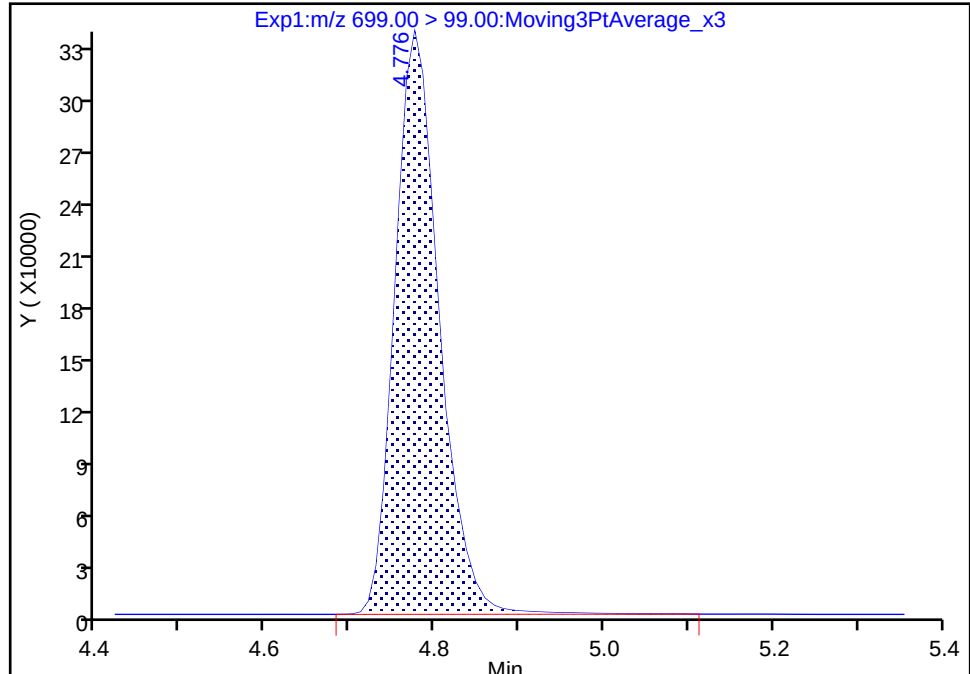
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

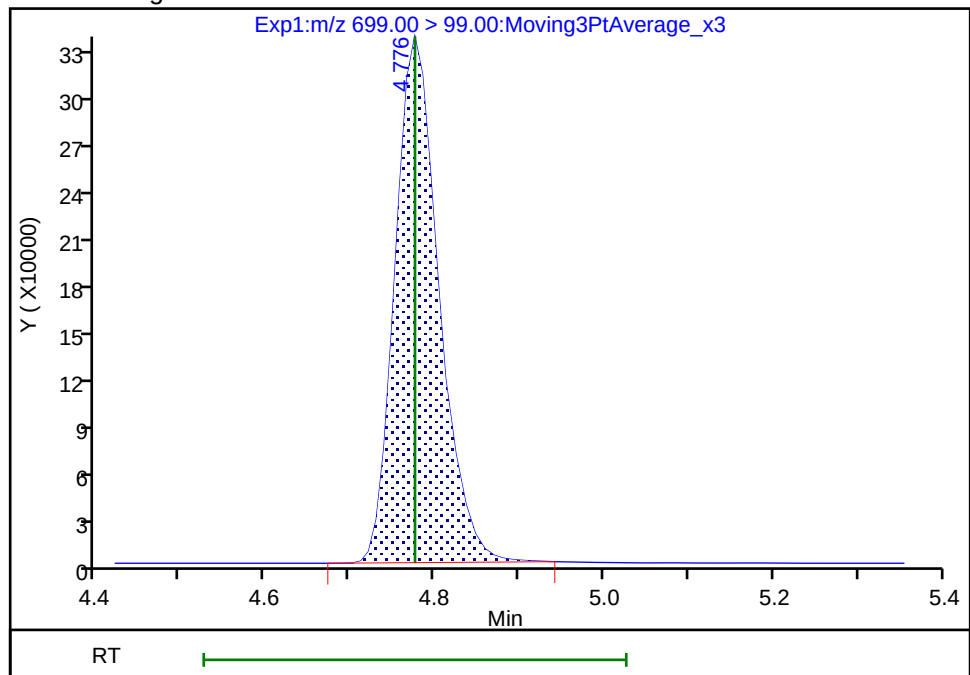
RT: 4.78
Area: 1228390
Amount: 2.299098
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 1217795
Amount: 2.338289
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

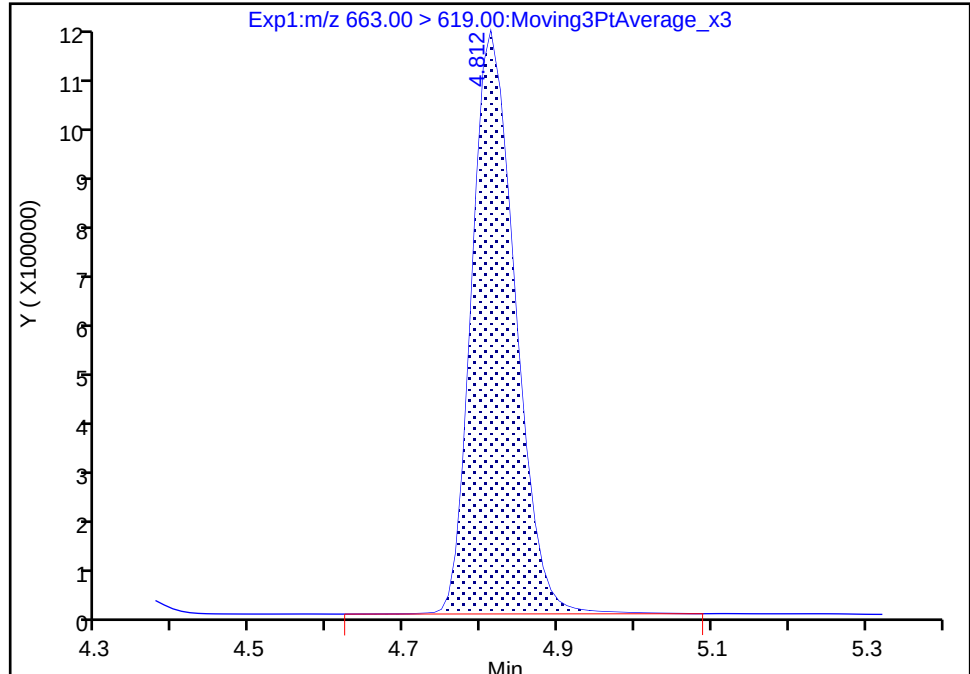
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

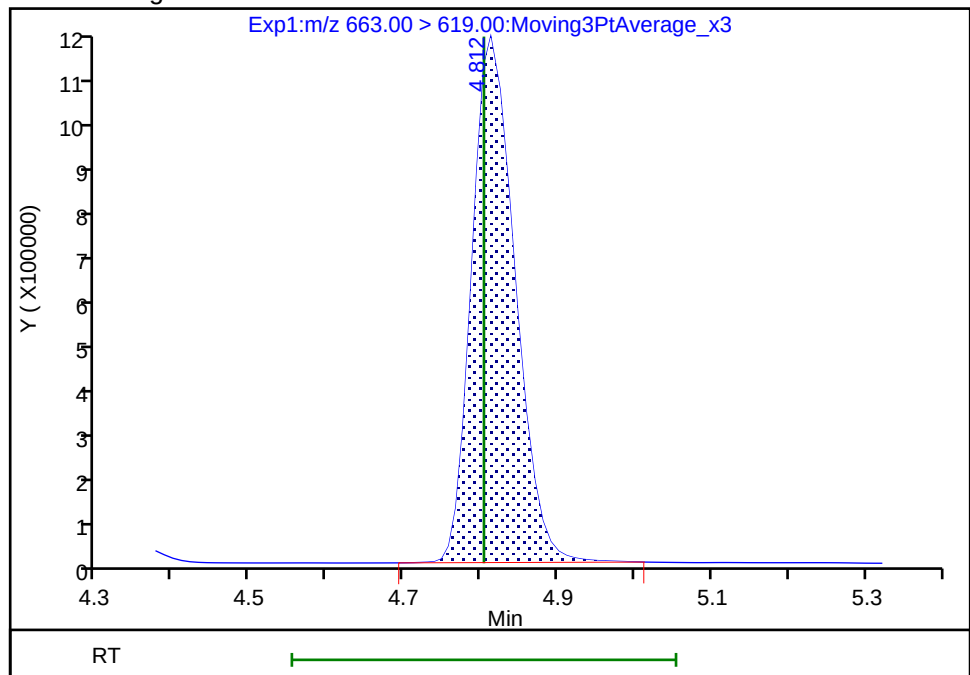
RT: 4.81
Area: 4593419
Amount: 2.351993
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 4574880
Amount: 2.407485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

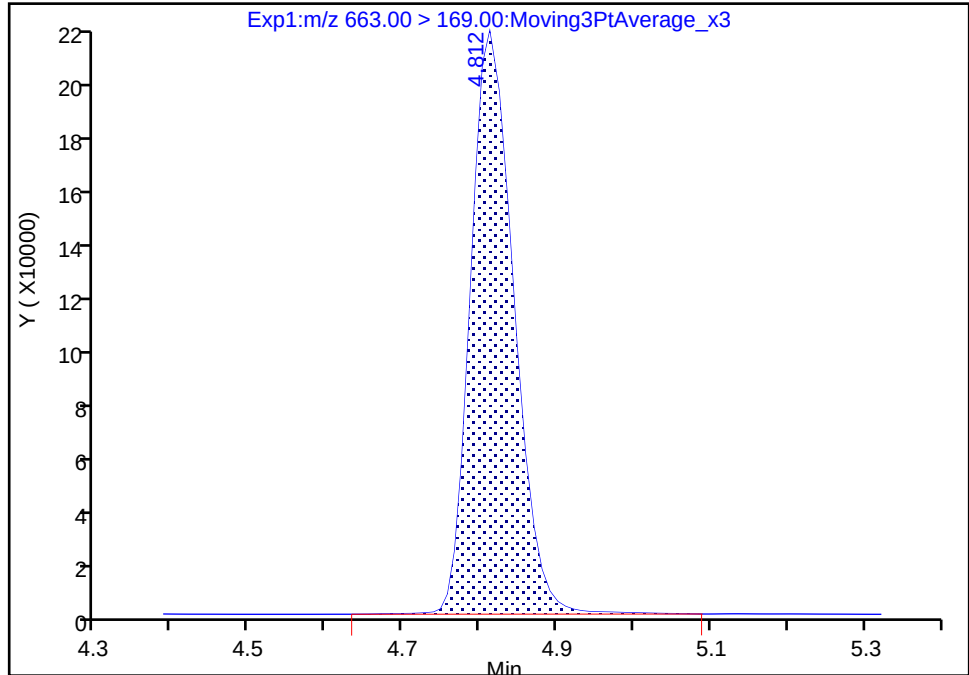
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

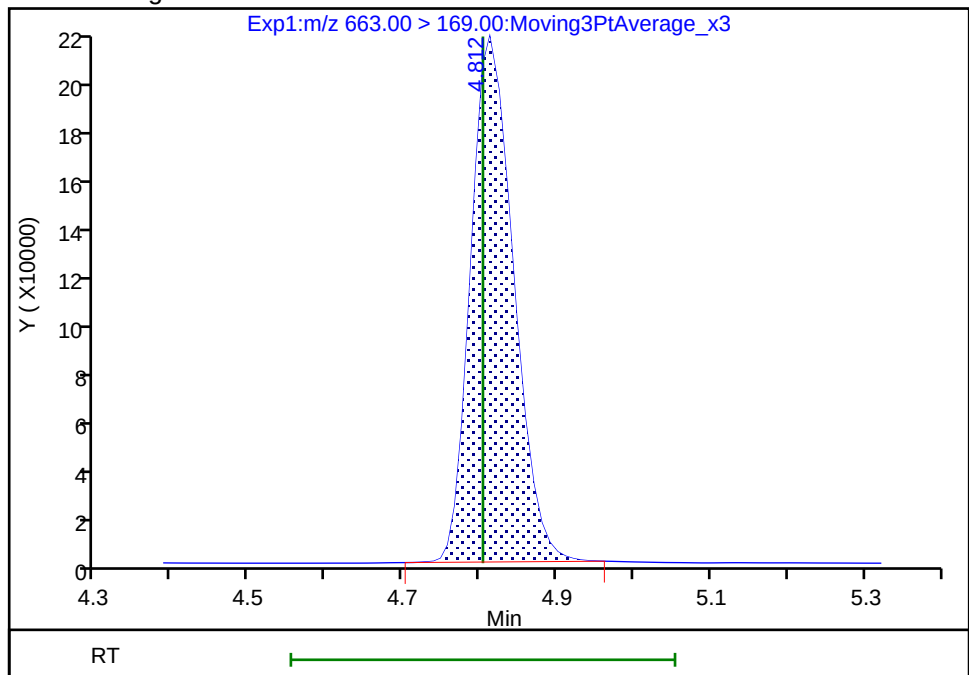
RT: 4.81
Area: 851410
Amount: 2.351993
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 841148
Amount: 2.407485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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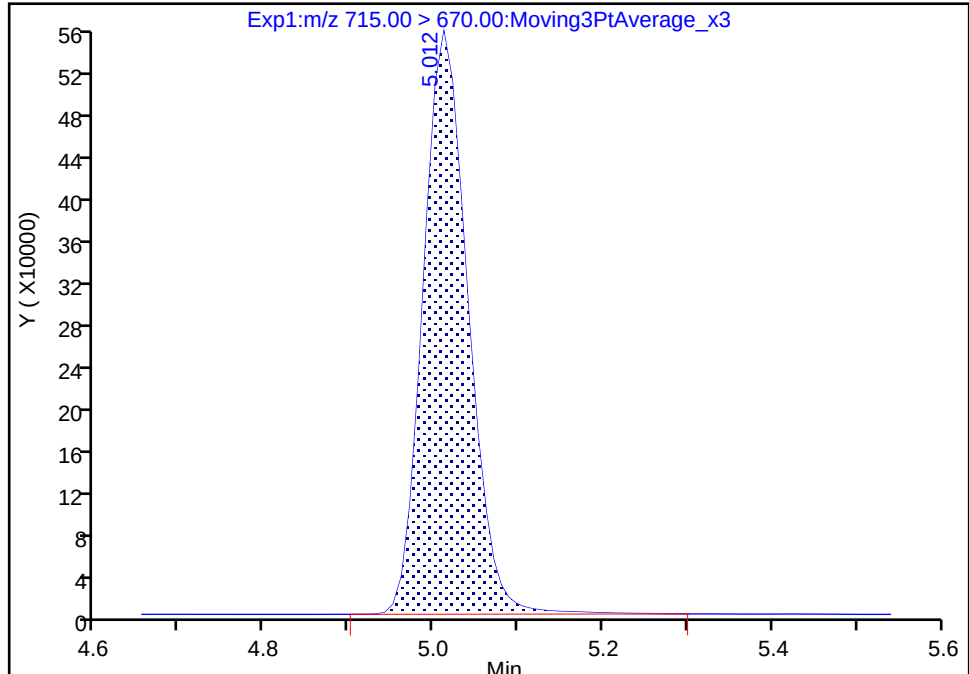
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

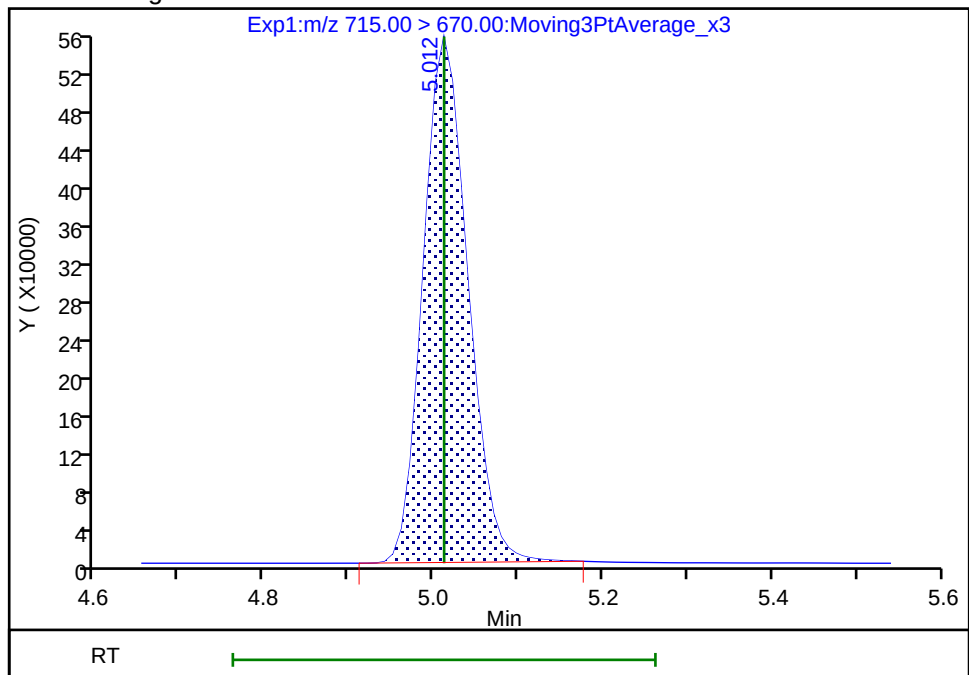
RT: 5.01
Area: 2033072
Amount: 1.303301
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 2014799
Amount: 1.286087
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

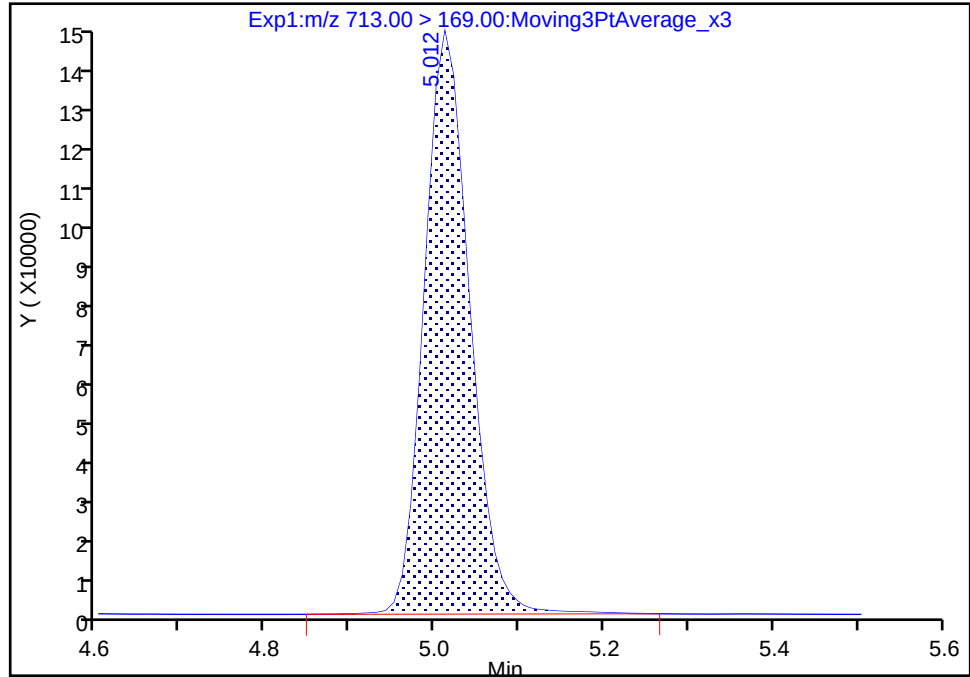
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

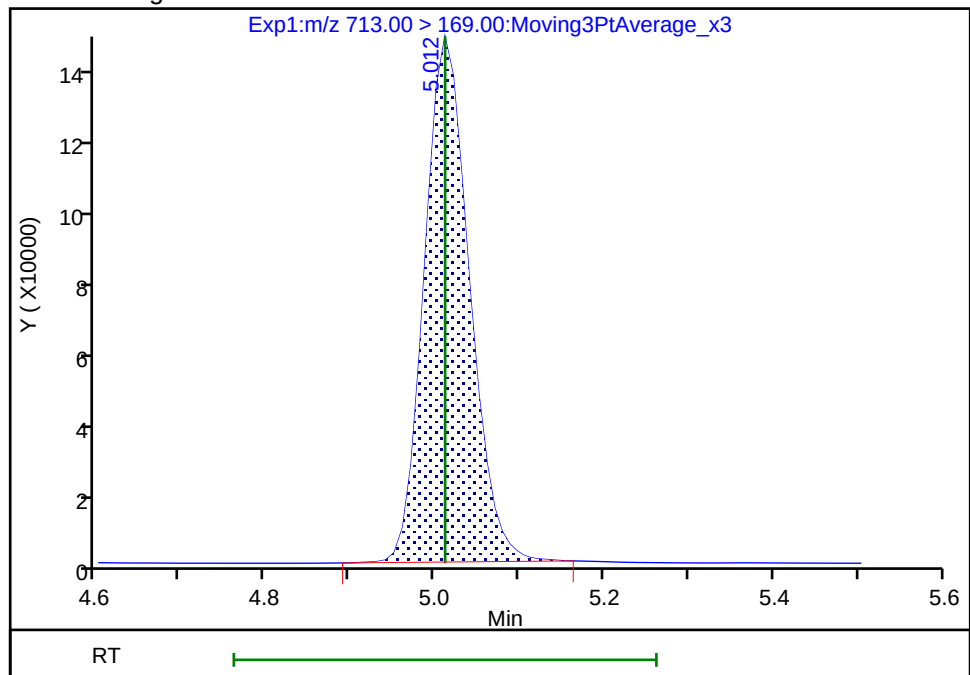
RT: 5.01
Area: 525519
Amount: 2.325898
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 519386
Amount: 2.353740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

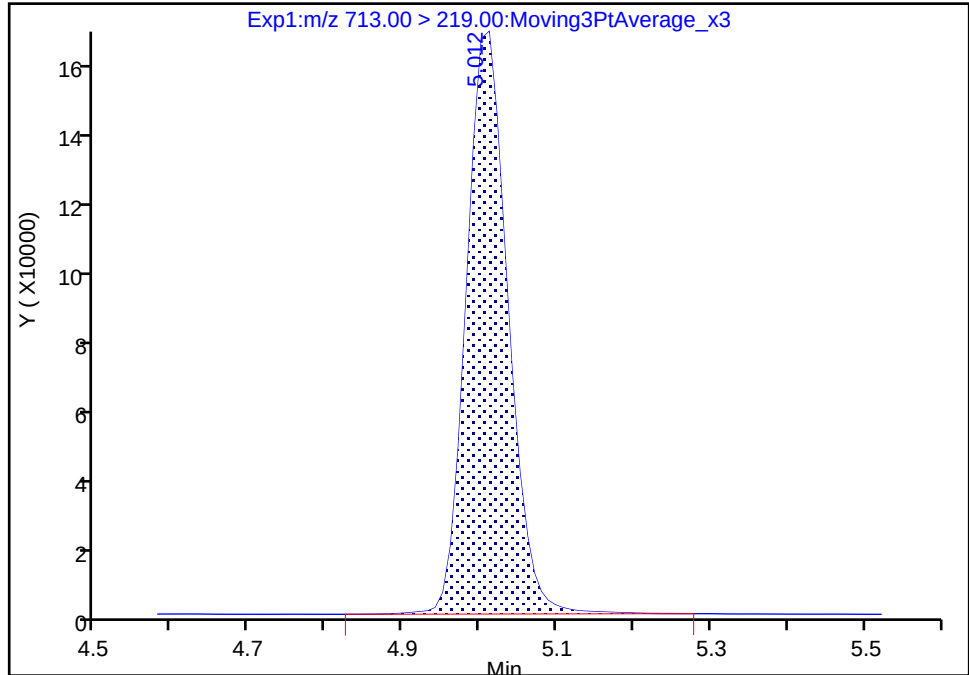
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

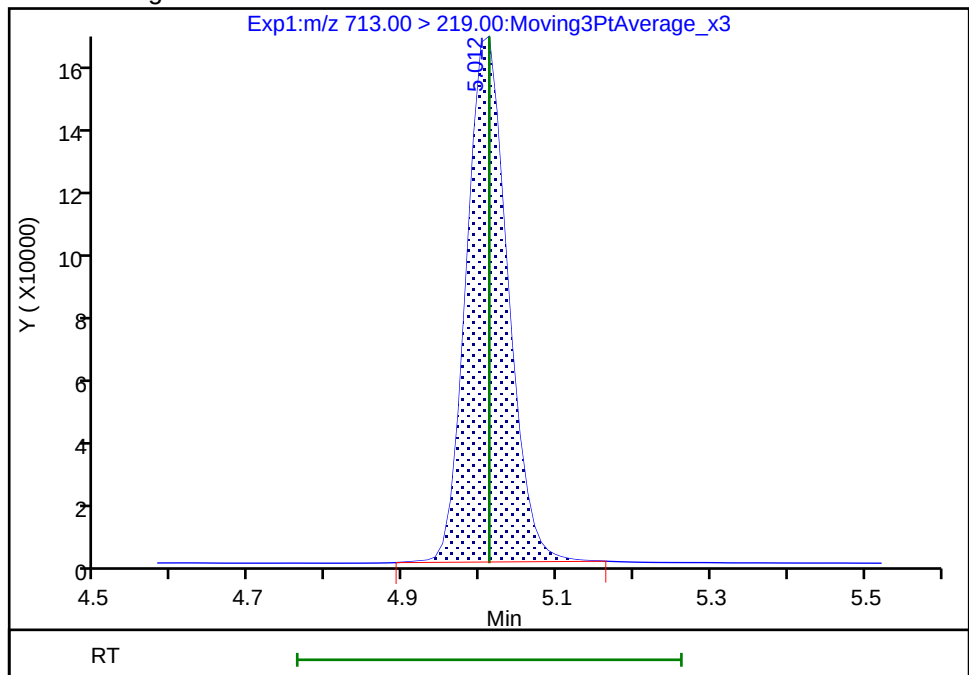
RT: 5.01
Area: 616529
Amount: 2.325898
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 610374
Amount: 2.353740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

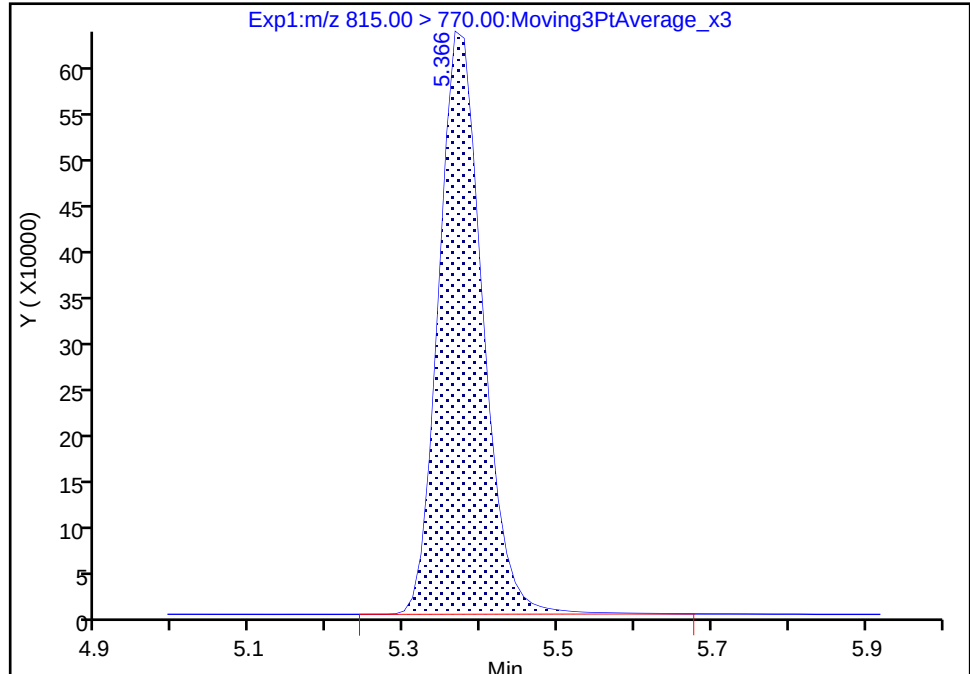
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

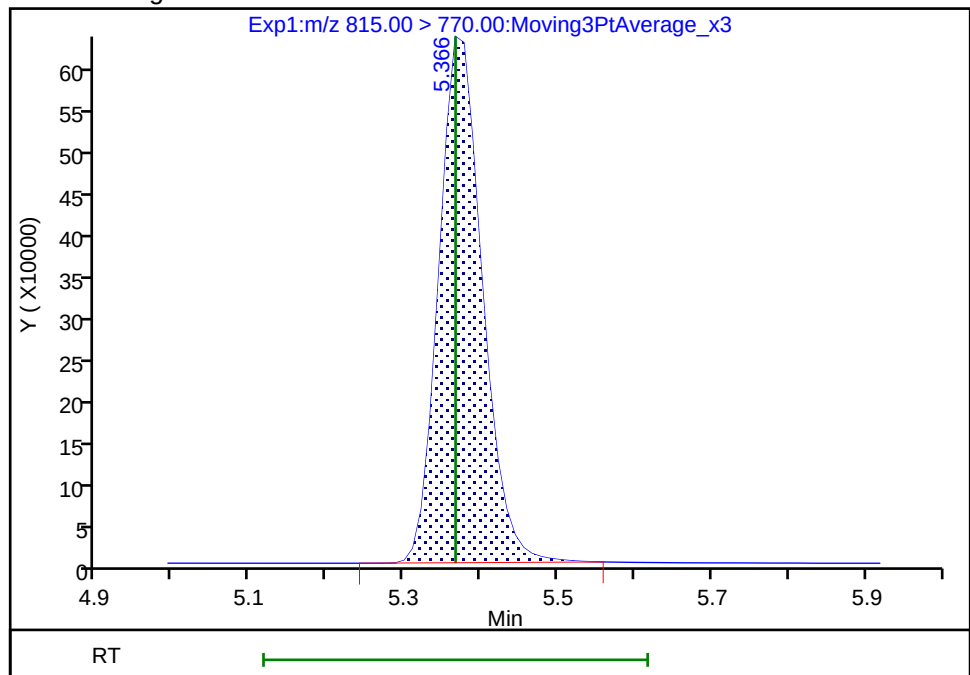
RT: 5.37
Area: 2515726
Amount: 1.303866
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2500657
Amount: 1.291152
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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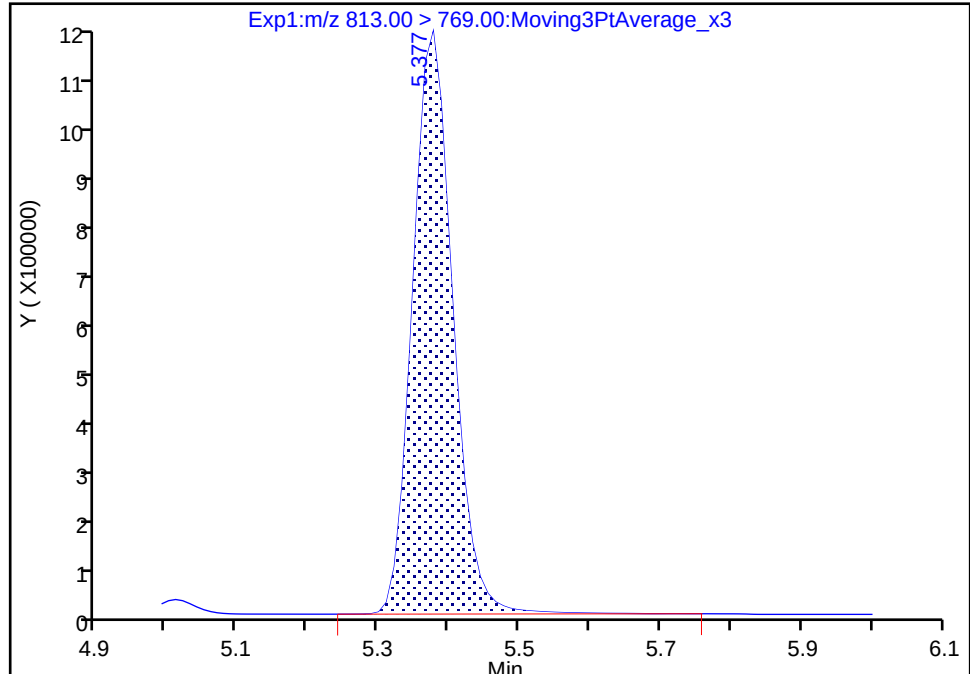
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

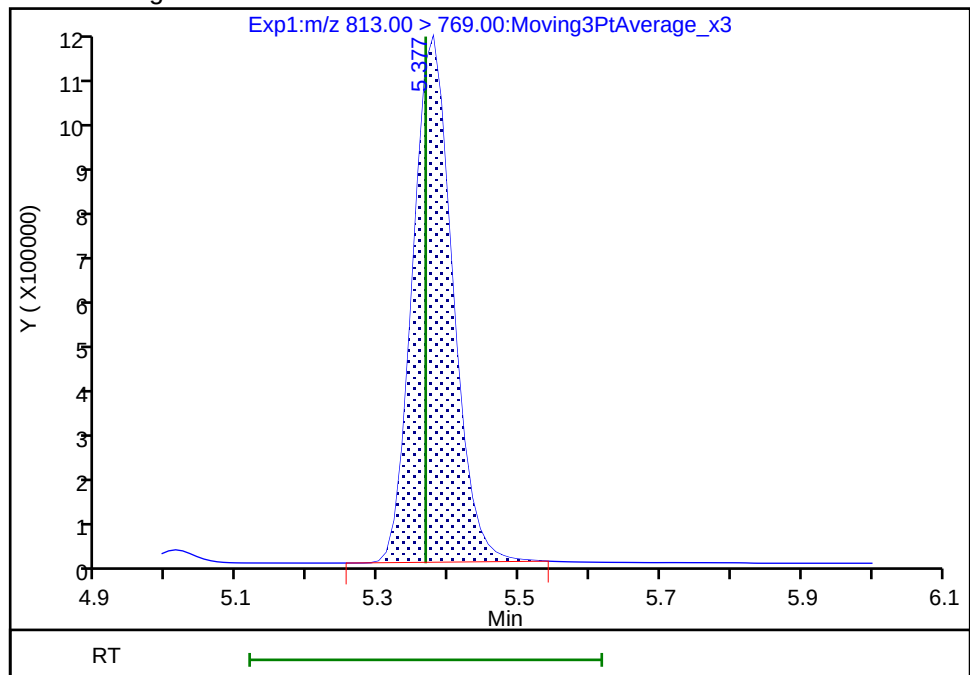
RT: 5.38
Area: 4654754
Amount: 2.502473
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 4609177
Amount: 2.488597
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

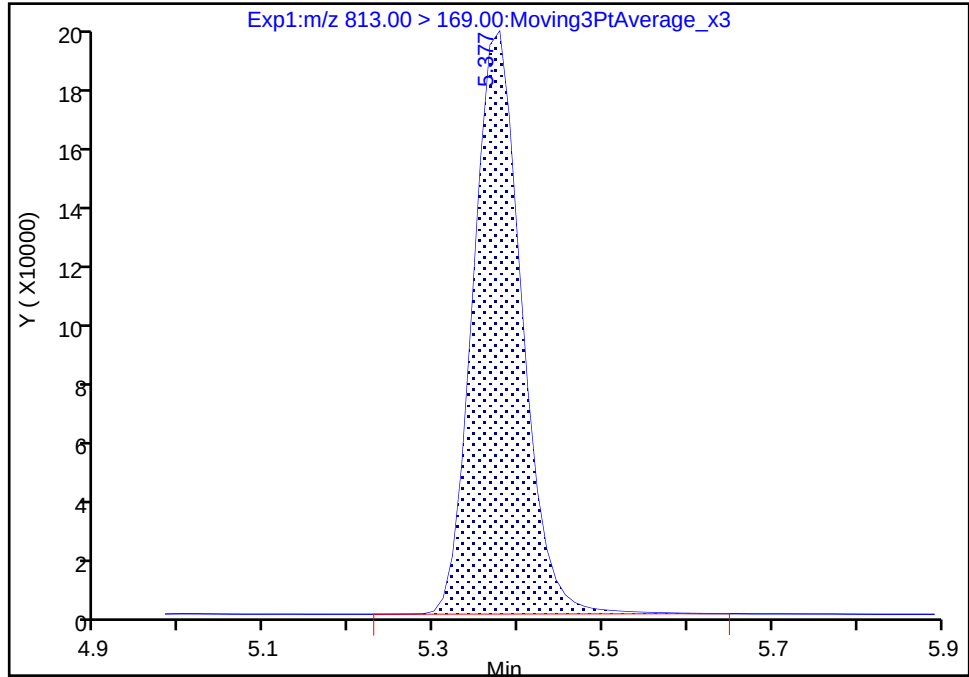
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

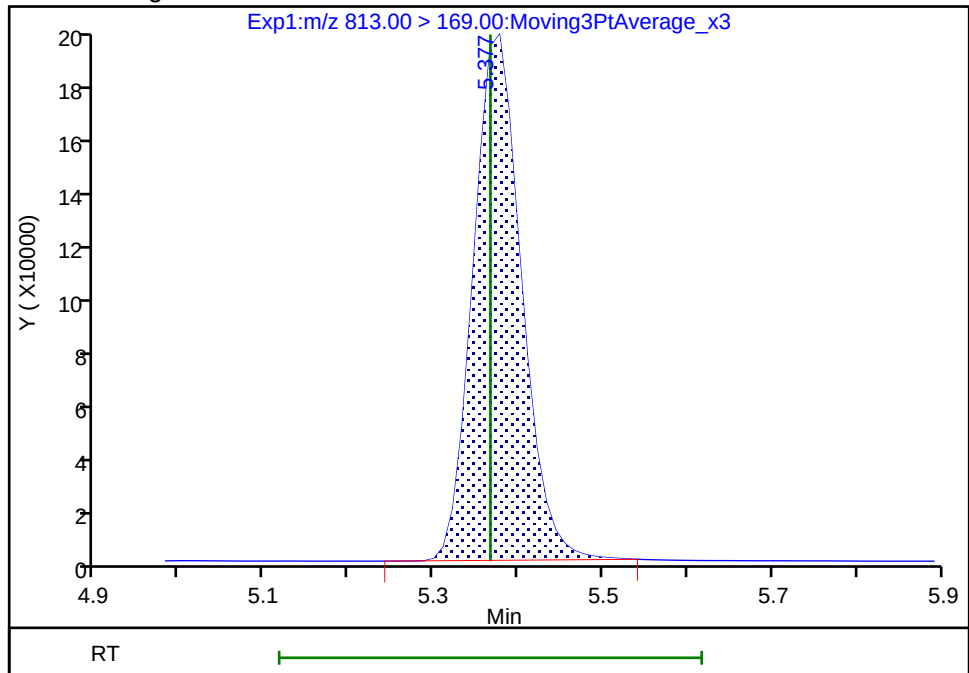
RT: 5.38
Area: 773083
Amount: 2.502473
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 767191
Amount: 2.488597
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

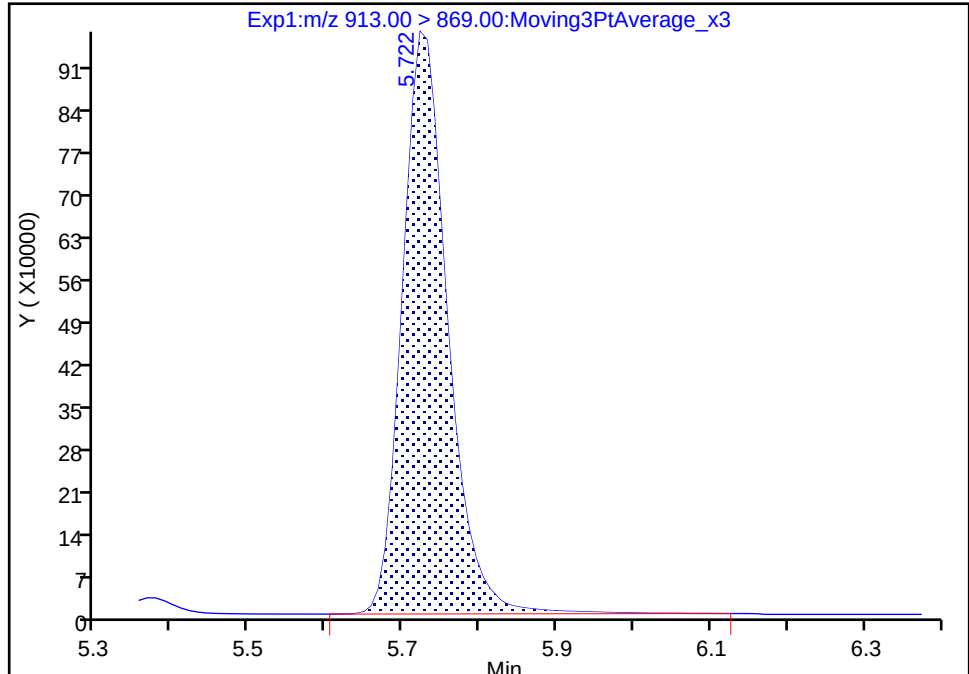
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

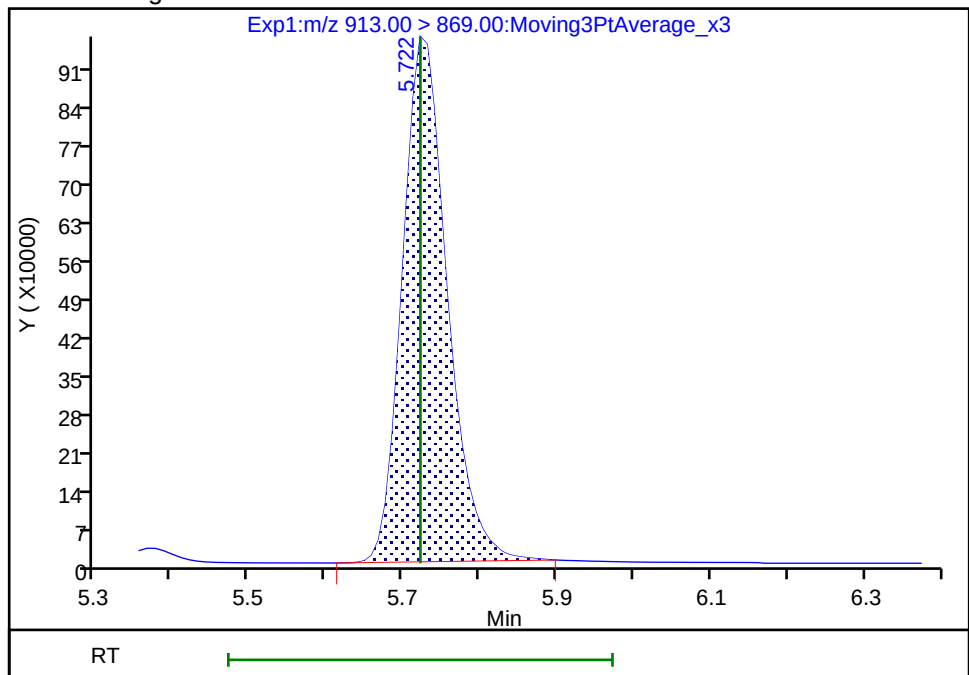
RT: 5.72
Area: 3948972
Amount: 2.362565
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 3885994
Amount: 2.358568
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:19:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

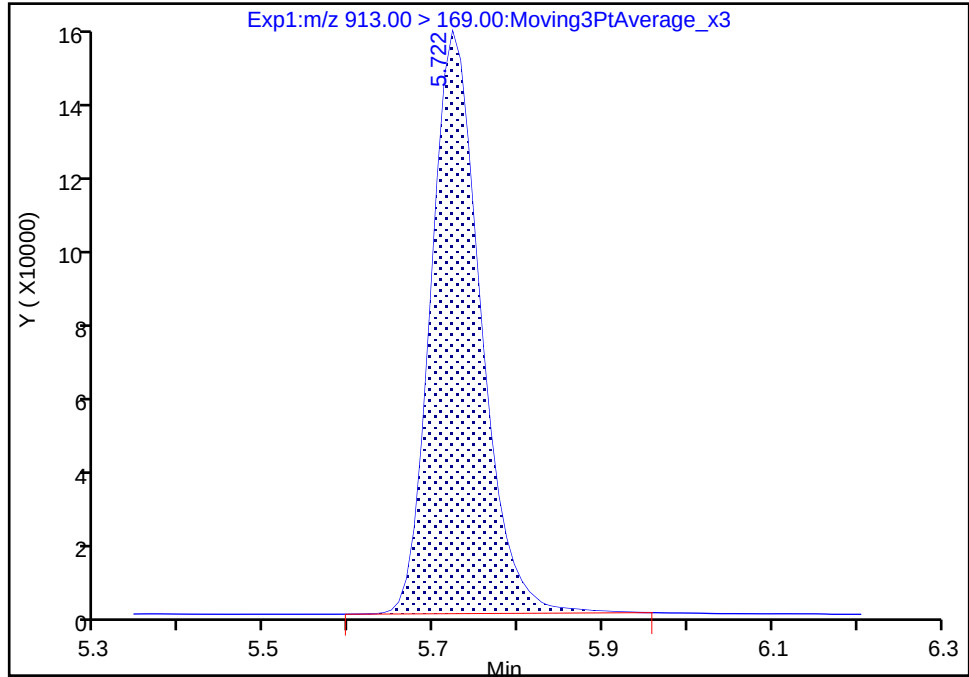
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

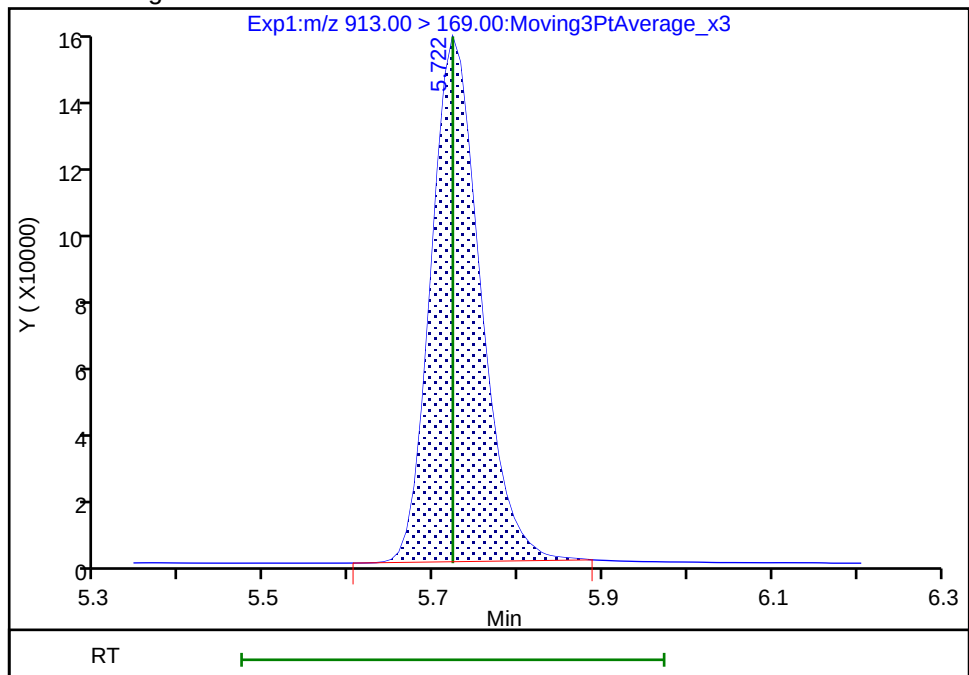
RT: 5.72
Area: 641202
Amount: 2.362565
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 634754
Amount: 2.358568
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:19:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Nov-2022 15:10:45 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:39:01 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:39:01

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	2.076	2.076	0.0	0.602	2467565	1.31		105	10900	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	18287579	8.98		89.8	1622	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	1859782	1.30		104	3825	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.000	14659532	9.04		90.4	369	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1920108	1.24		106	306030	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	15764131	8.34	Target=2.14	94.4	6290	M
298.90 > 99.00	2.400	2.400	0.0	1.000	7462883		2.11(1.07-3.21)	94.4	3673	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	3793564	8.55		91.5	7517	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	168186	1.23		105	209	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.725	2.725	0.0	0.790	1905245	1.27		102	3368	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	14928997	8.99	Target=13.44	89.9	1947	M
313.00 > 119.00	2.725	2.725	0.0	1.000	1139463		13.10(6.72-20.15)	89.9	1377	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	14151584	8.84	Target=2.98	94.3	4481	M
349.00 > 99.00	2.737	2.737	0.0	0.887	4699585		3.01(1.49-4.47)	94.3	3456	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	2790710	9.46		94.6	3137	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										M
287.00 > 169.00	2.835	2.835	0.0	0.822	349067	1.32		106	2058	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.088	3.088	0.0	0.896	1417084	1.25		106	3116	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	11438488	8.46	Target=3.57	92.9	1881	M
399.00 > 99.00	3.088	3.088	0.0	1.000	3266390		3.50(1.78-5.35)	92.9	1771	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	1969787	1.28		102	3184	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.088	3.099	-0.011	1.000	15384783	8.97	Target=3.93	89.7	1713	M
363.00 > 169.00	3.088	3.099	-0.011	1.000	4138402		3.72(1.96-5.89)	89.7	2990	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	34921387	7.63	Target=3.08	81.0	2972	M
377.00 > 85.00	3.132	3.132	0.0	0.832	12293064		2.84(1.54-4.62)	81.0	2852	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	221871	1.17		98.5	664	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.439	3.439	0.0	1.000	3743844	9.47		99.9	1951	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.430	3.439	-0.009	0.911	10171074	8.76	Target=5.16	92.0	3706	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	1989808		5.11(2.58-7.74)	92.0	4062	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2203793	1.27		102	5888	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2091291	1.25			3642	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	16977289	9.01	Target=2.82	90.1	978	M
413.00 > 169.00	3.448	3.448	0.0	1.000	6260421		2.71(1.41-4.23)	90.1	2636	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	993714	1.29		108	883	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	8534676	8.44	Target=5.01	90.9	926	M
499.00 > 99.00	3.764	3.764	0.0	1.000	1770034		4.82(2.50-7.51)	90.9	964	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	16342622	9.36	Target=8.49	93.6	1971	M
463.00 > 169.00	3.783	3.783	0.0	1.000	1938179		8.43(4.25-12.74)	93.6	2313	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2102974	1.25		100.0	6336	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	19485090	8.40		90.1	3617	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.051	4.050	0.001	1.076	6831873	8.95	Target=2.60	93.2	2750	M
549.00 > 99.00	4.051	4.050	0.001	1.076	2652769		2.58(1.30-3.90)	93.2	3358	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2229691	1.30		104	3838	

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	4.081	4.081	0.0	1.000	16688874	8.63	Target=10.03	86.3	2787	M
513.00 > 169.00	4.081	4.081	0.0	1.000	1764763		9.46(5.02-15.05)	86.3	3491	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	277266	1.20		99.8	889	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	3431863	9.17		95.7	2819	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	14828965	9.27		92.7	11896	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1914897	1.36		109	2590	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	478582	1.37		110	204	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.000	3297027	10.0		100.0	1849	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	5548668	9.21	Target=2.58	95.5	2308	M
599.00 > 99.00	4.320	4.331	-0.011	1.148	2036543		2.72(1.29-3.86)	95.5	2355	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.353	4.353	0.0	1.263	1967361	1.25		100	2095	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	14168517	8.93	Target=10.10	89.3	2525	M
563.00 > 169.00	4.353	4.353	0.0	1.000	1502685		9.43(5.05-15.15)	89.3	1563	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	2992748	9.39		93.9	1373	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	444955	1.29		104	611	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.454	4.454	0.0	1.183	28587798	7.99		84.8	2959	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	15612916	8.76	Target=7.41	87.6	840	M
613.00 > 169.00	4.591	4.591	0.0	1.000	2225311		7.02(3.70-11.11)	87.6	3131	M
D 36 13C2 PFDaA										M
615.00 > 570.00	4.591	4.591	0.0	1.332	2103698	1.32		105	3008	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	2140218	9.51		98.7	1929	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.767	4.776	-0.009	1.266	2258006	8.85	Target=0.51	91.5	2977	M
699.00 > 99.00	4.767	4.776	-0.009	1.266	4532176		0.50(0.25-0.76)	91.5	4479	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.804	-0.001	1.046	14753486	8.65	Target=5.40	86.5	847	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	2874269		5.13(2.70-8.10)	86.5	2161	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.012	-0.010	1.000	1813608	9.29	Target=0.90	92.9	1869	M
713.00 > 219.00	5.002	5.012	-0.010	1.000	2156307		0.84(0.45-1.35)	92.9	3154	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.002	5.012	-0.010	1.451	1782548	1.29		103	2048	M

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.366	5.367	-0.001	1.000	16164958	10.0	Target=5.85	100	978	M
813.00 > 169.00	5.366	5.367	-0.001	1.000	2805404		5.76(2.93-8.78)	100	2198	M
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.366	5.367	-0.001	1.557	2191999	1.28		103	2301	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	13617092	9.43	Target=6.30	94.3	603	M
913.00 > 169.00	5.713	5.722	-0.009	1.065	2220967		6.13(3.15-9.46)	94.3	888	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d

Injection Date: 18-Nov-2022 15:10:45

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

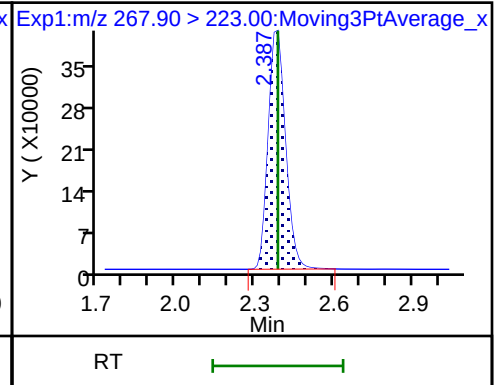
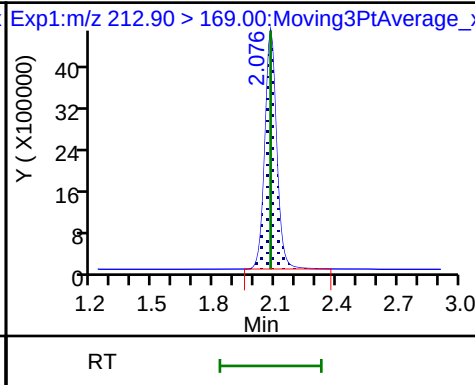
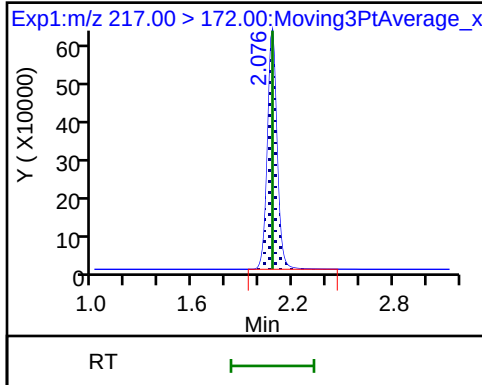
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

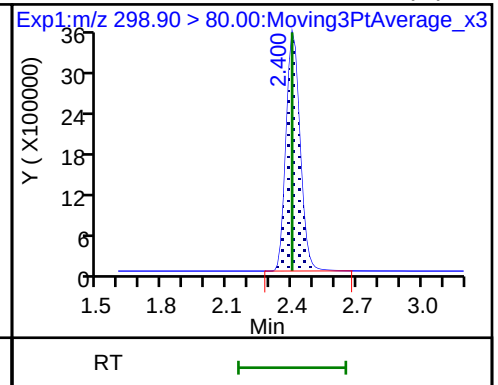
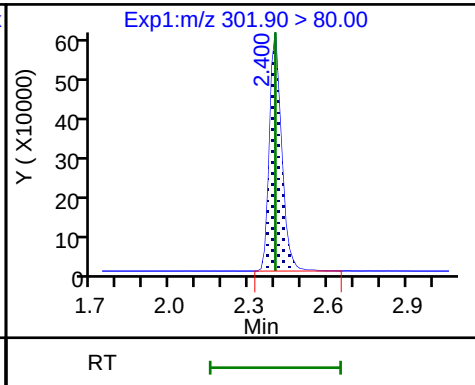
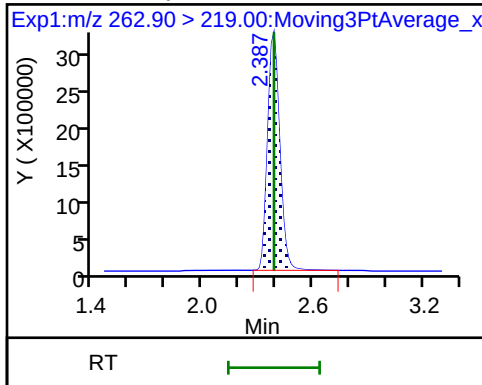
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

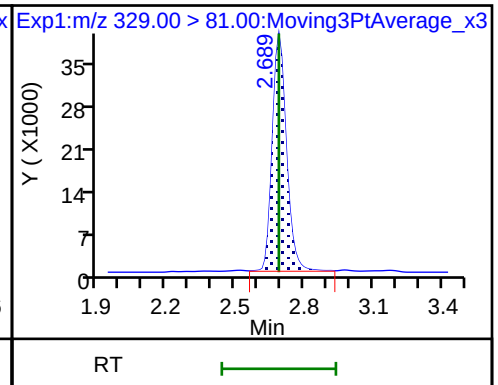
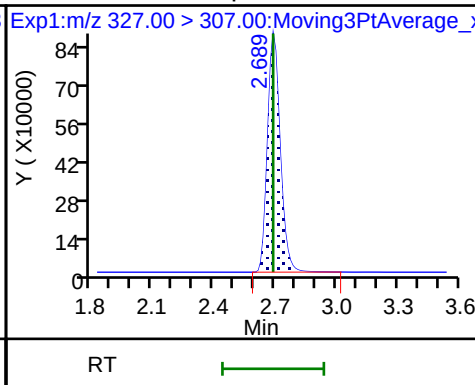
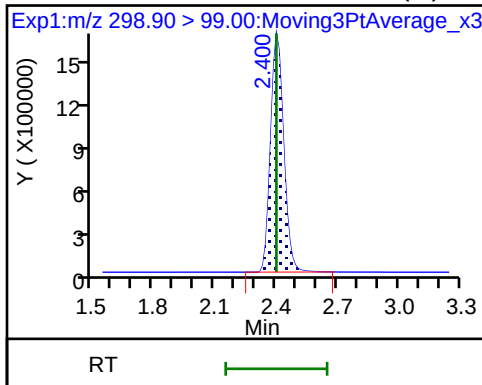
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

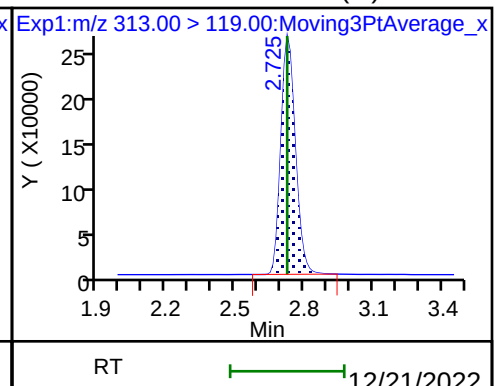
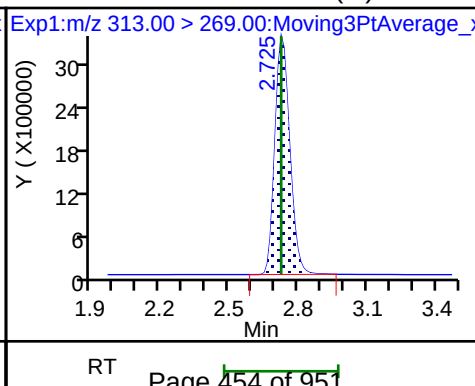
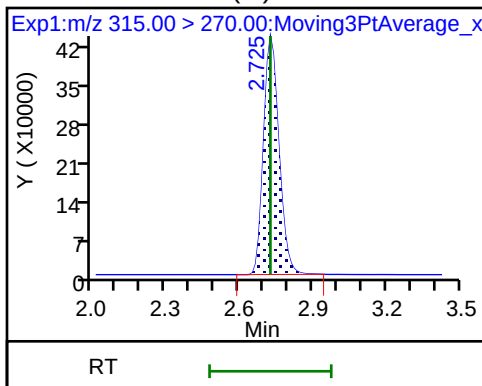
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

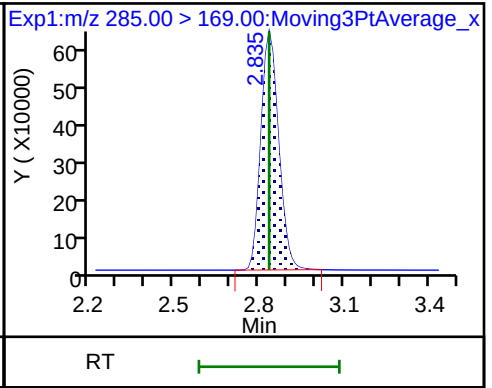
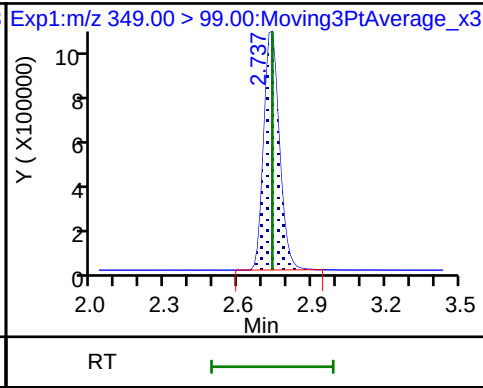
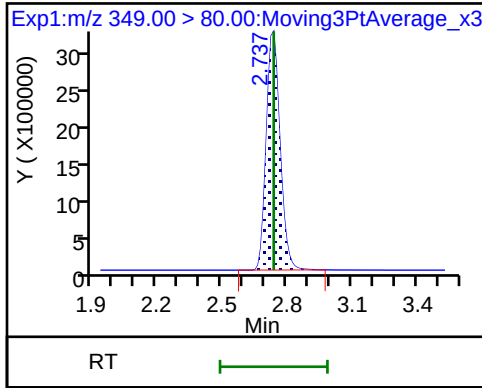
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

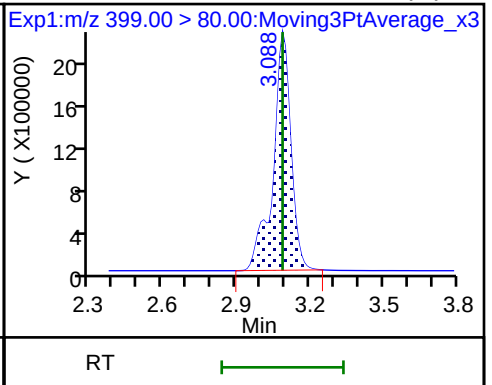
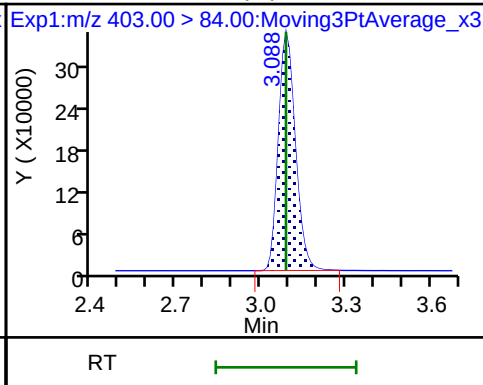
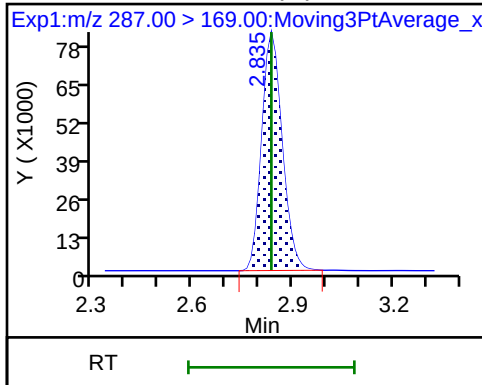
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA (M)

D 11 18O2 PFHxS (M)

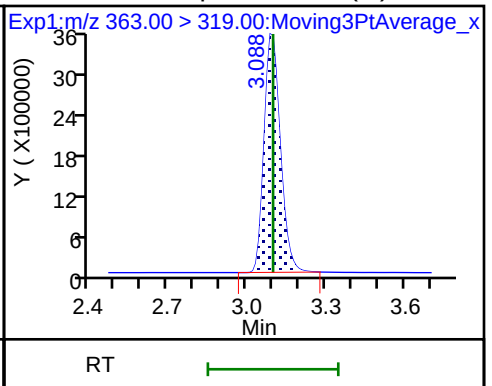
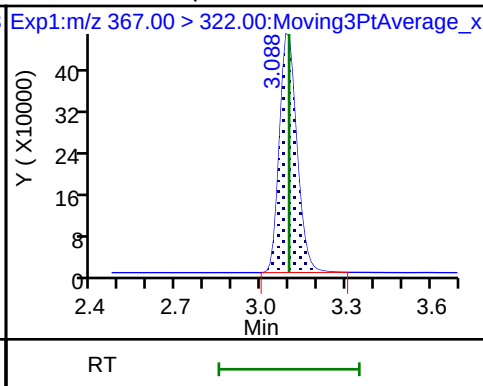
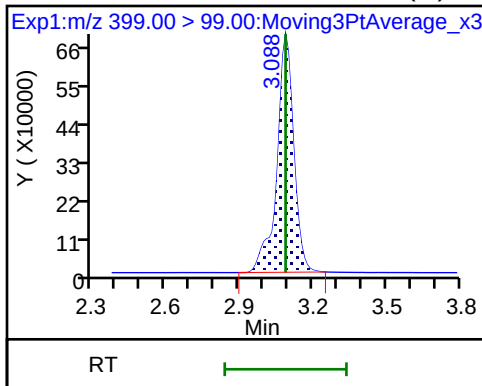
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

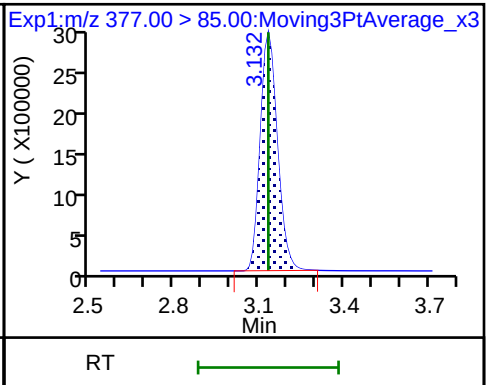
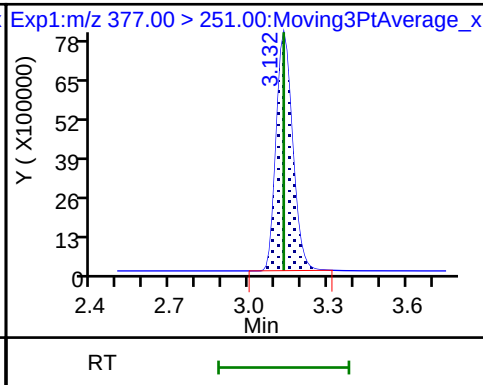
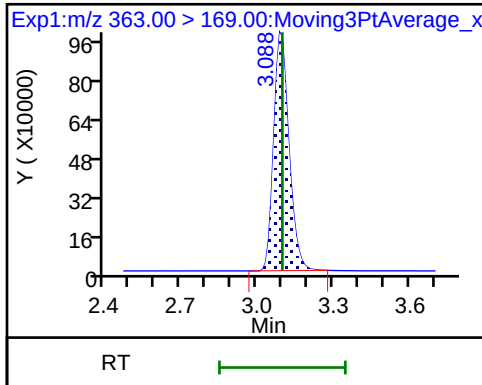
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

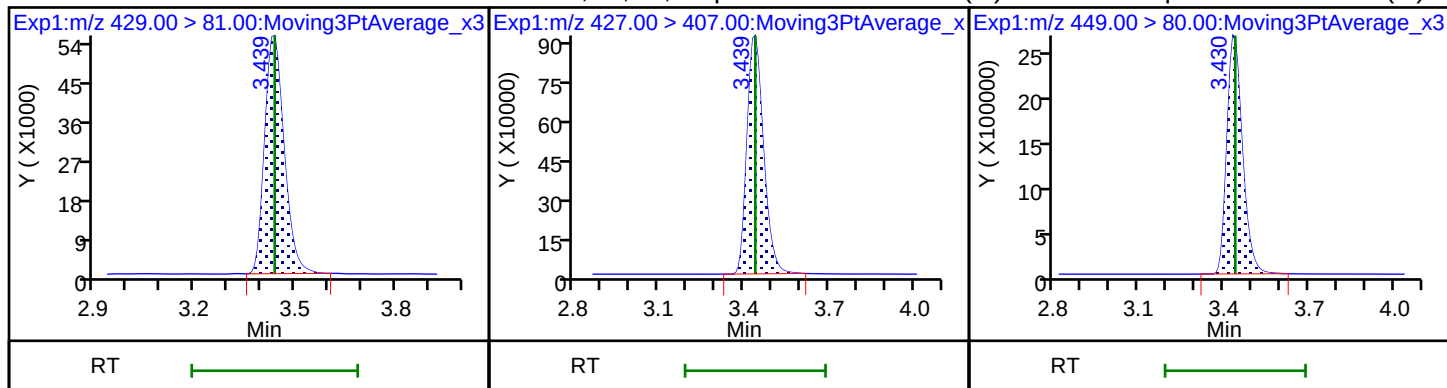
77 DONA (M)

77 DONA (M)



D 12 M2-6:2 FTS

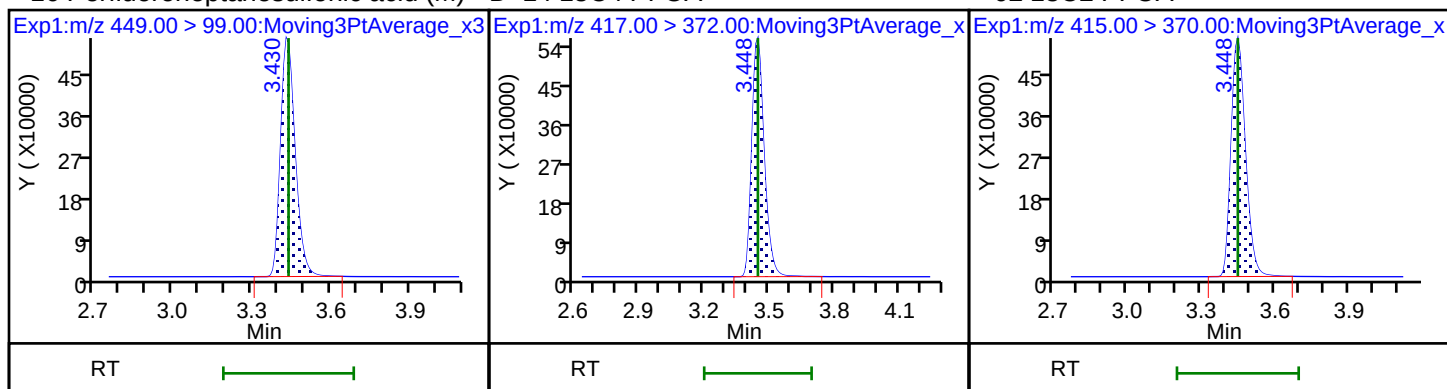
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

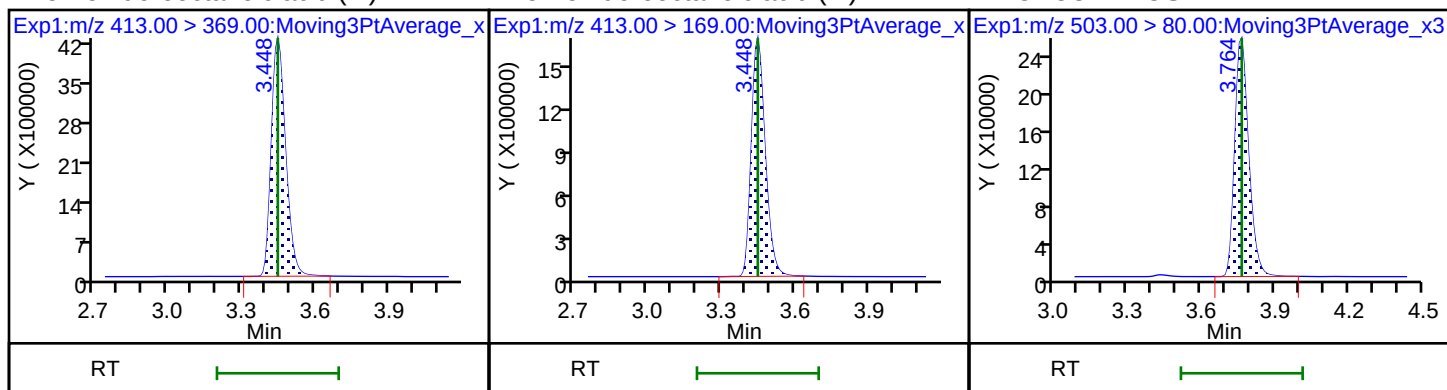
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

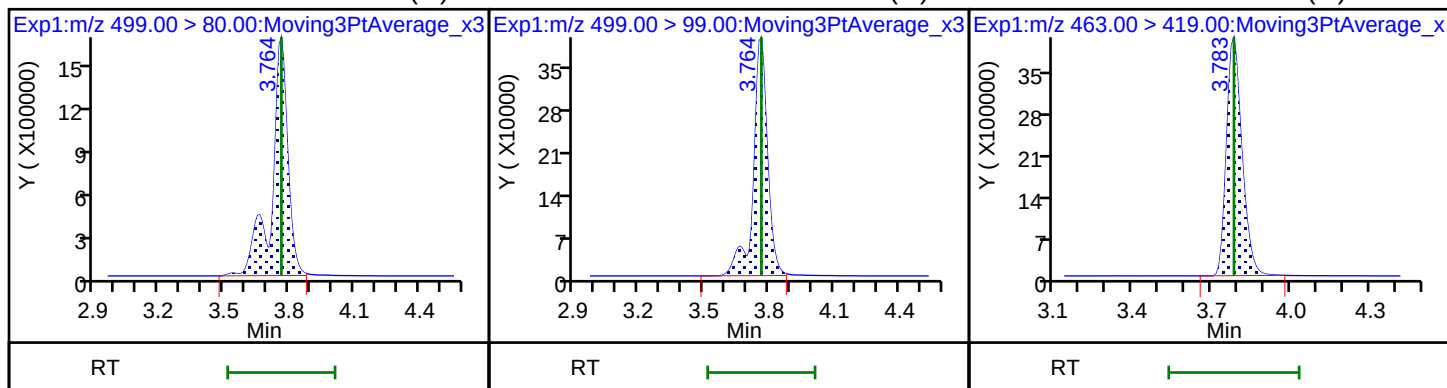
D 18 13C4 PFOS

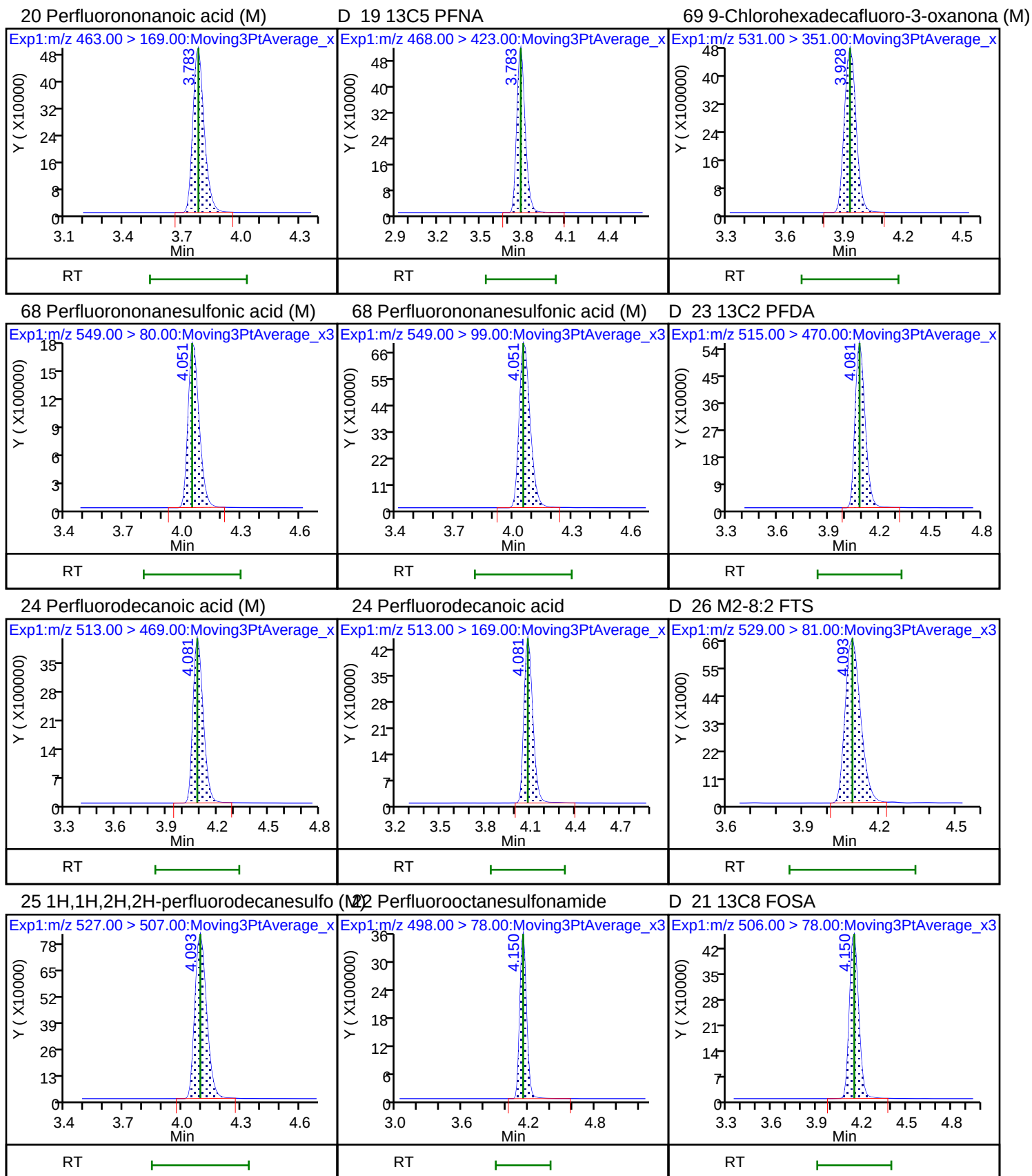


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

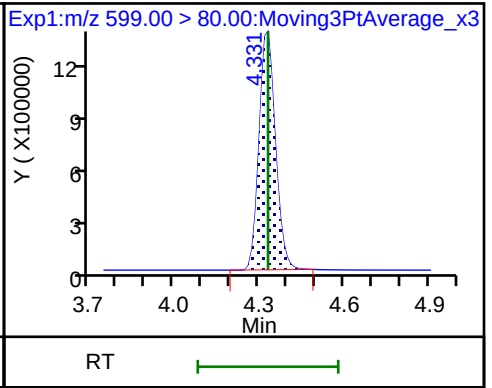
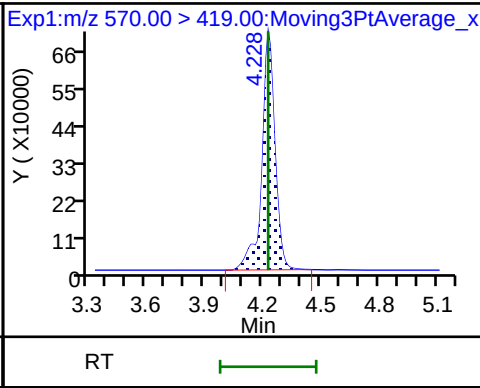
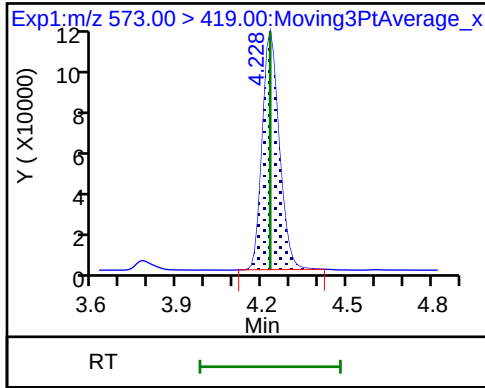




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

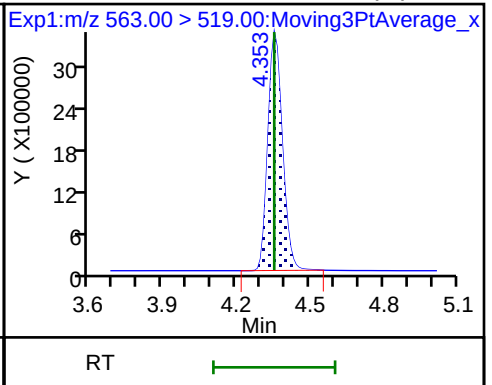
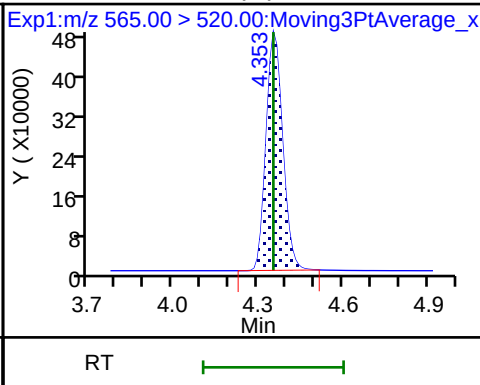
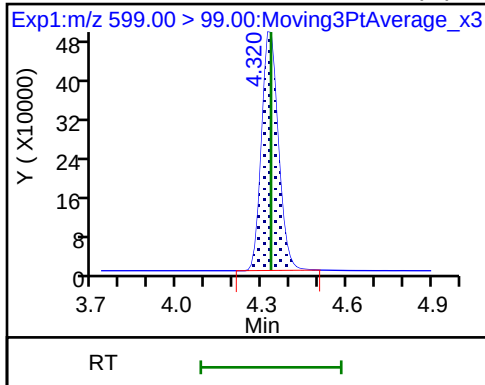
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

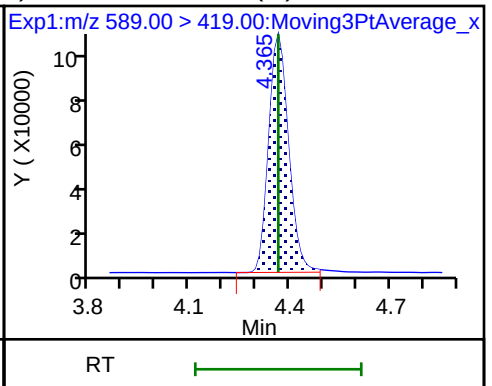
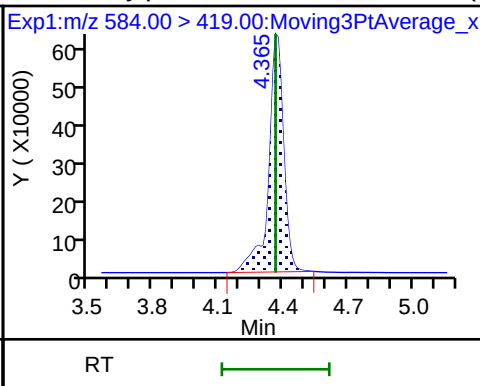
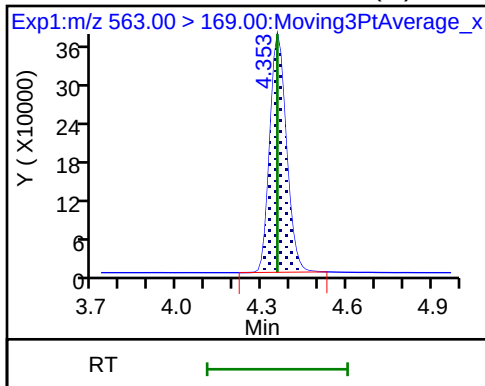
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

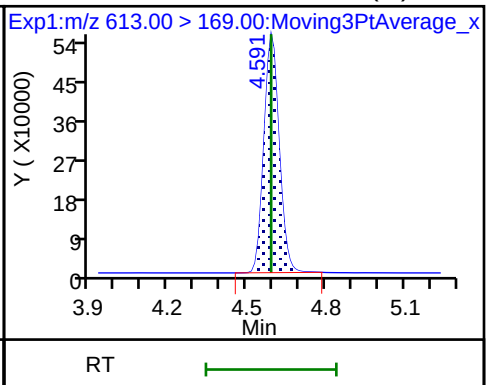
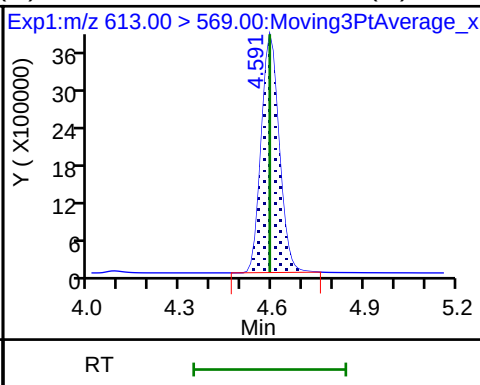
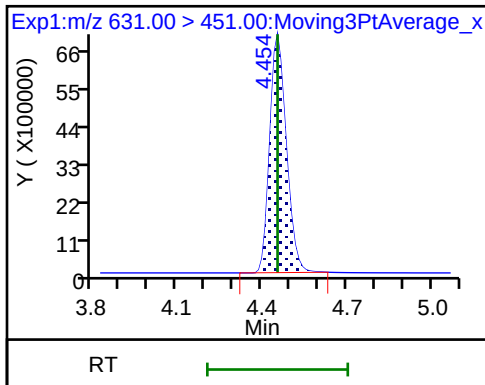
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

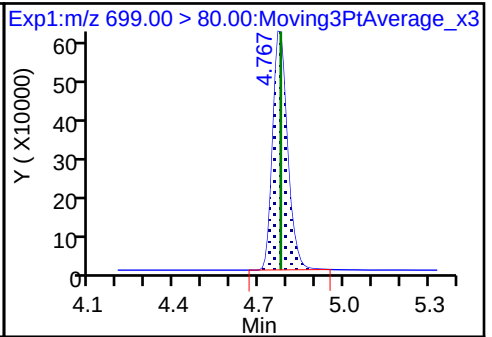
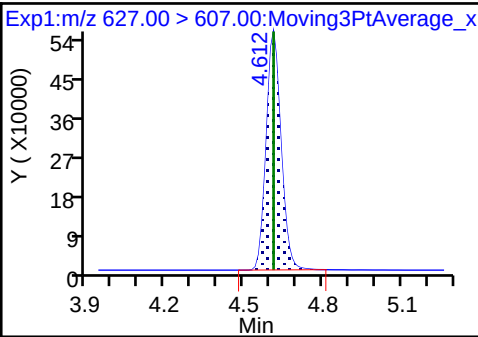
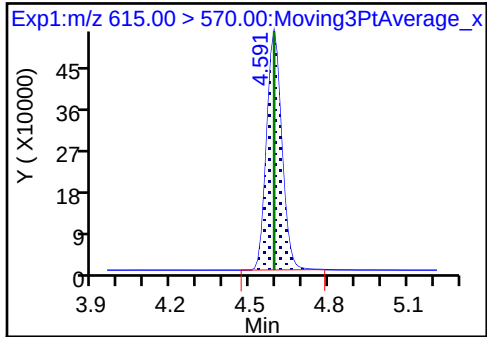
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



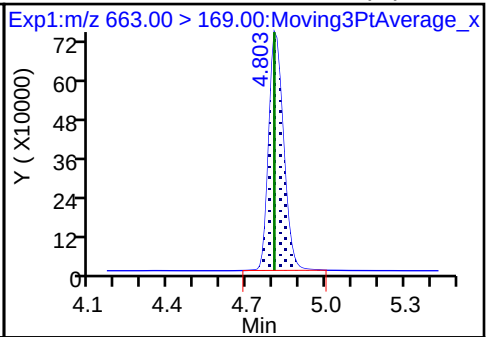
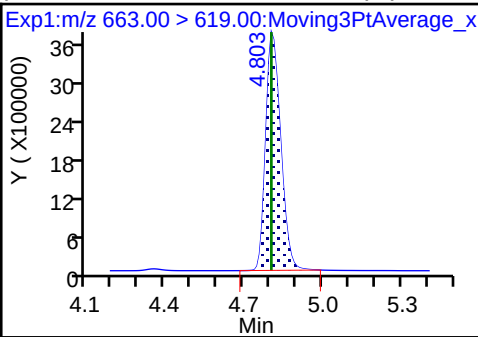
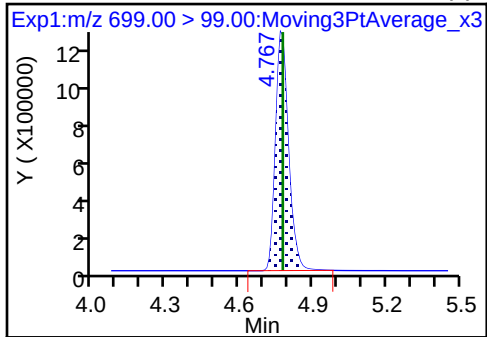
D 36 13C2 PFDa (M)

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

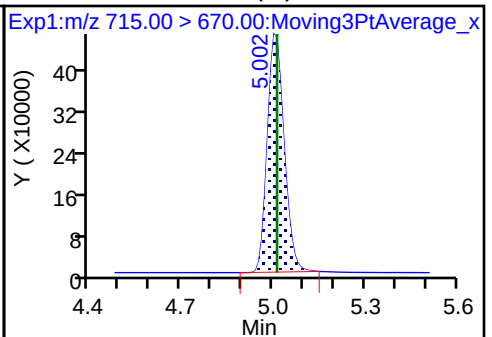
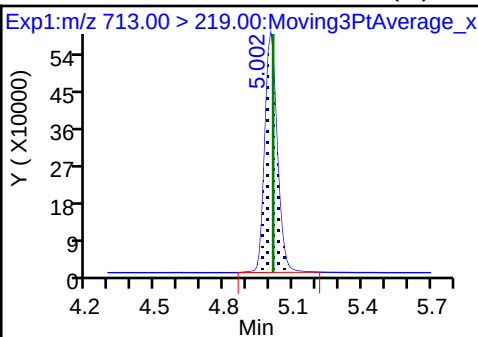
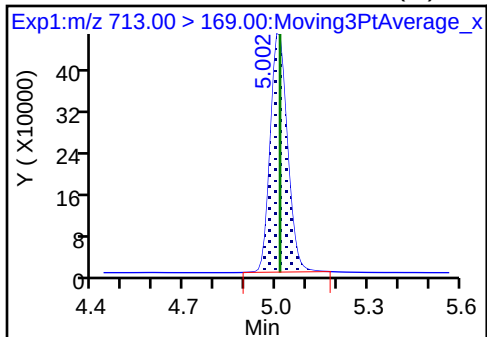
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

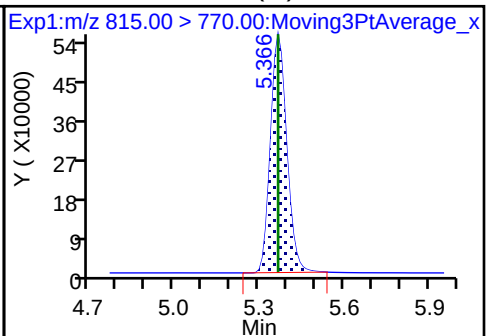
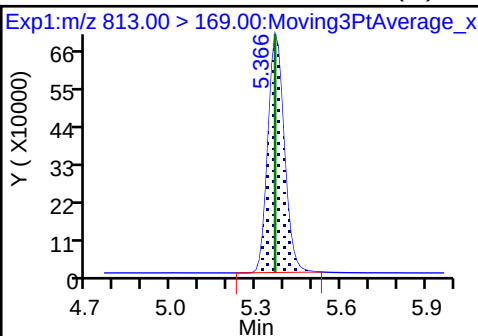
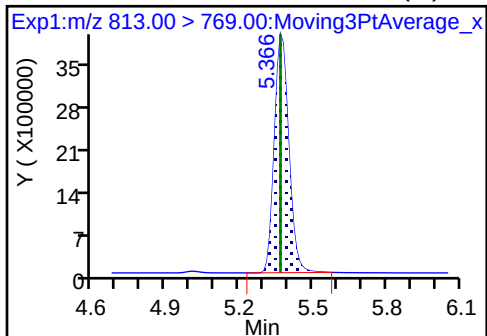
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid (M)

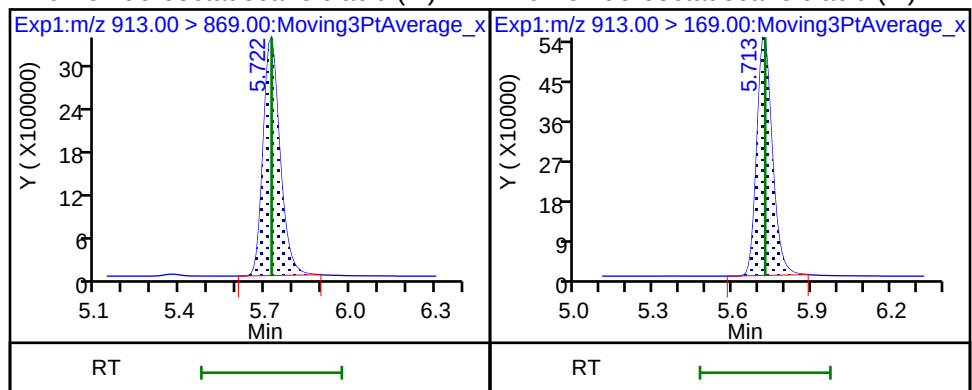
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

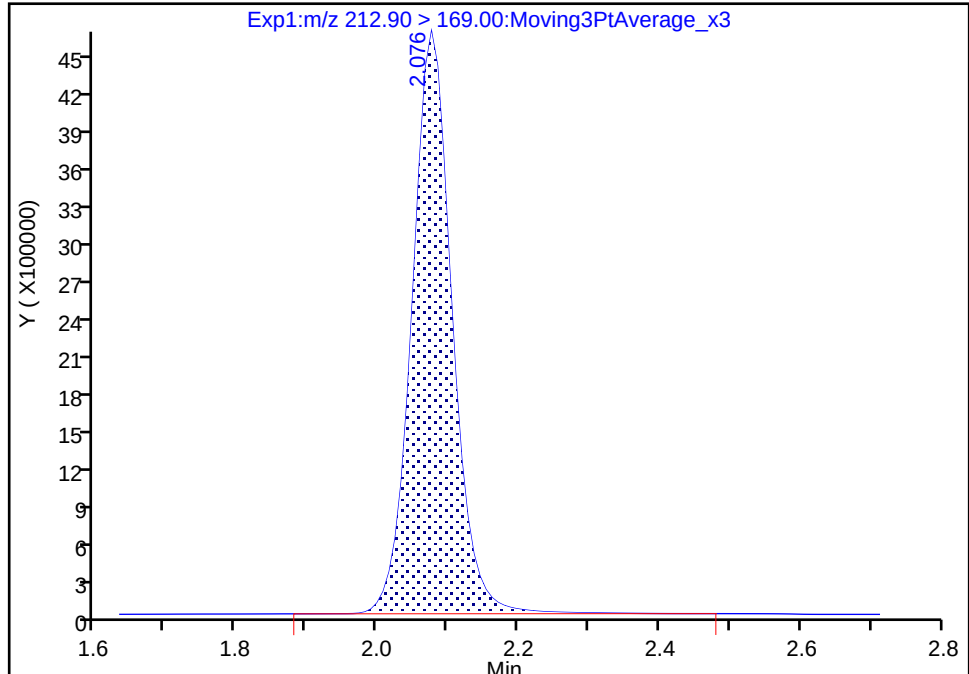
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Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

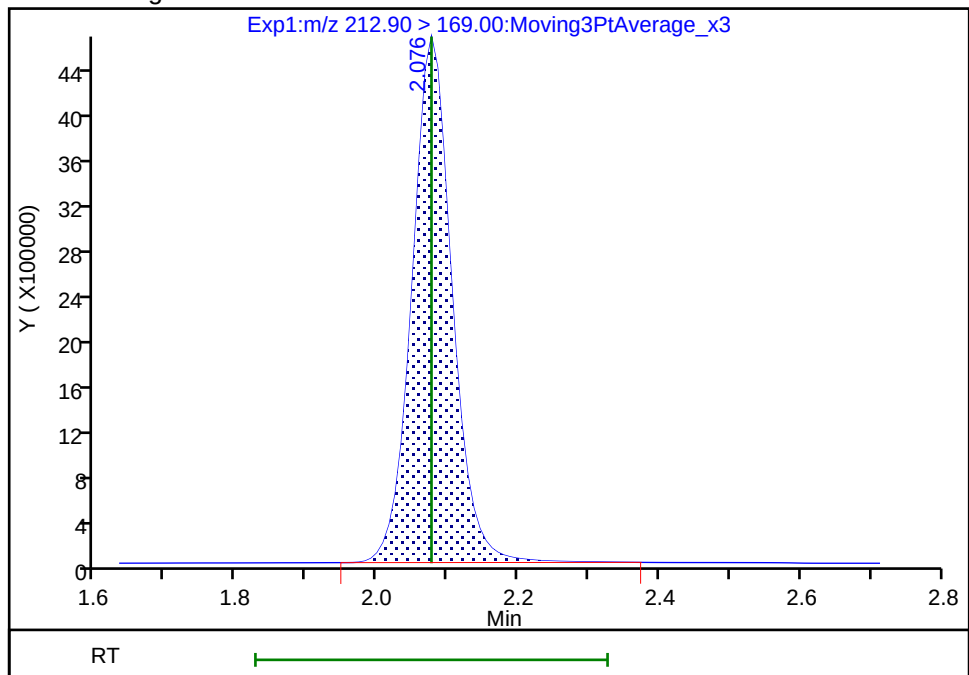
RT: 2.08
Area: 18330073
Amount: 9.001467
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 18287579
Amount: 8.983723
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 461 of 951

12/21/2022
3:12 PM

Eurofins Burlington

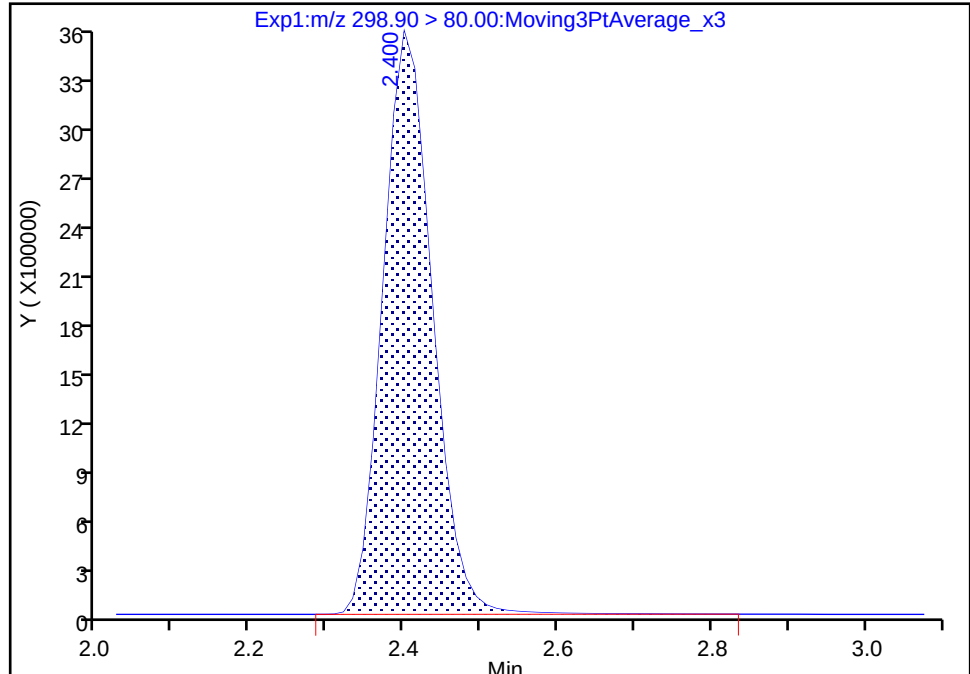
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Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

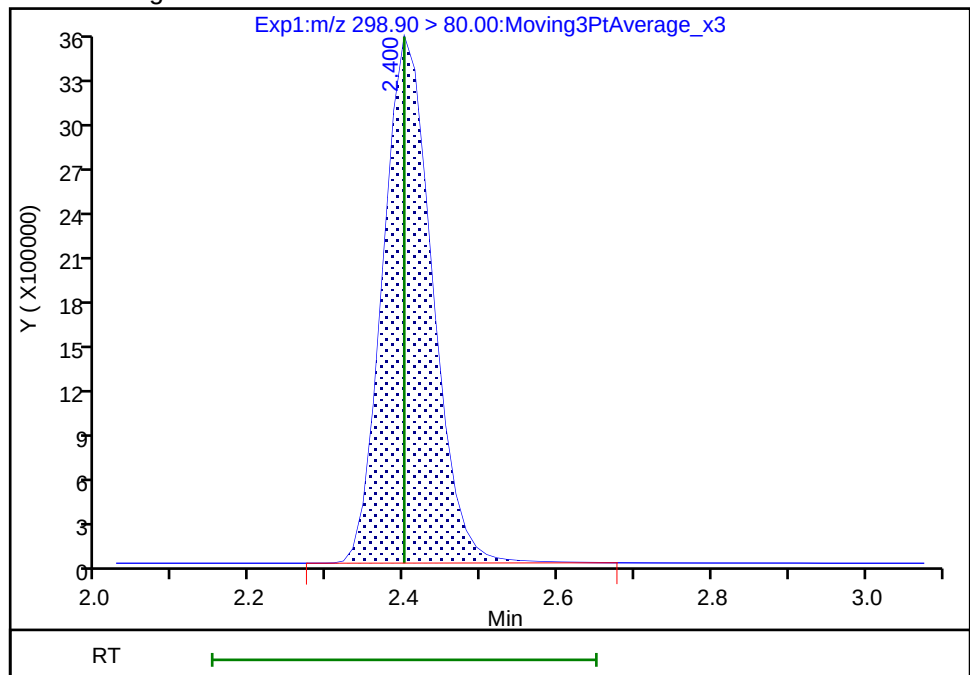
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Area: 15798970
Amount: 8.357707
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 15764131
Amount: 8.342176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

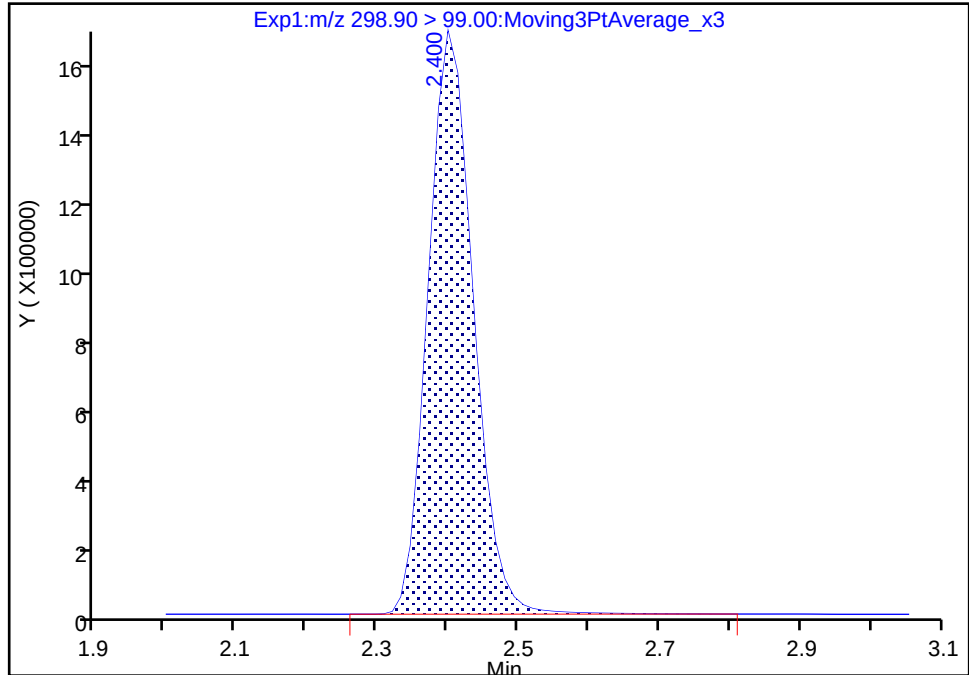
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

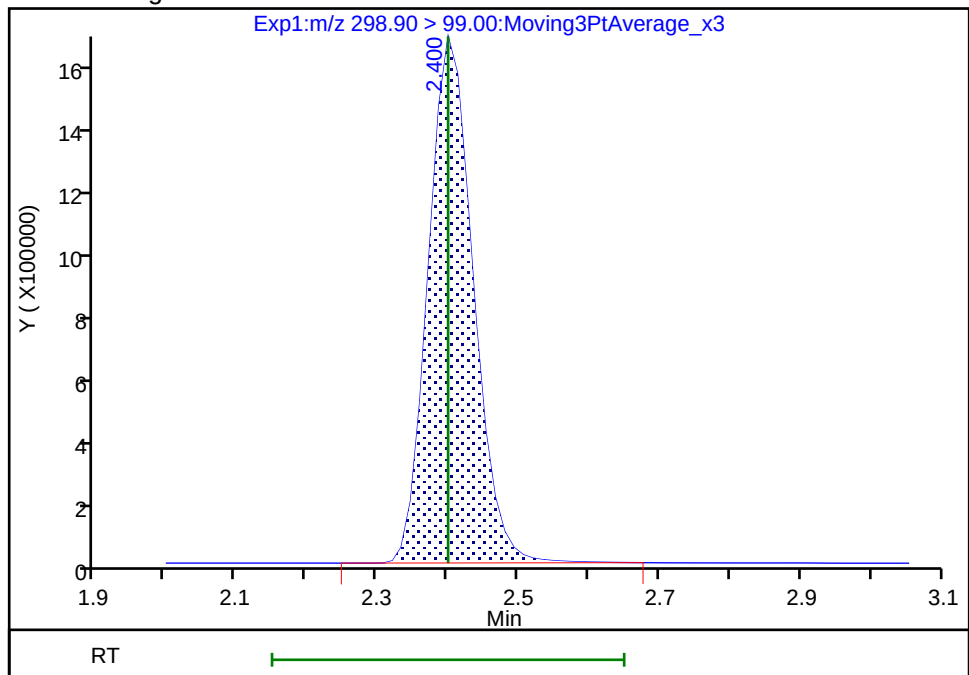
RT: 2.40
Area: 7478716
Amount: 8.357707
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 7462883
Amount: 8.342176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

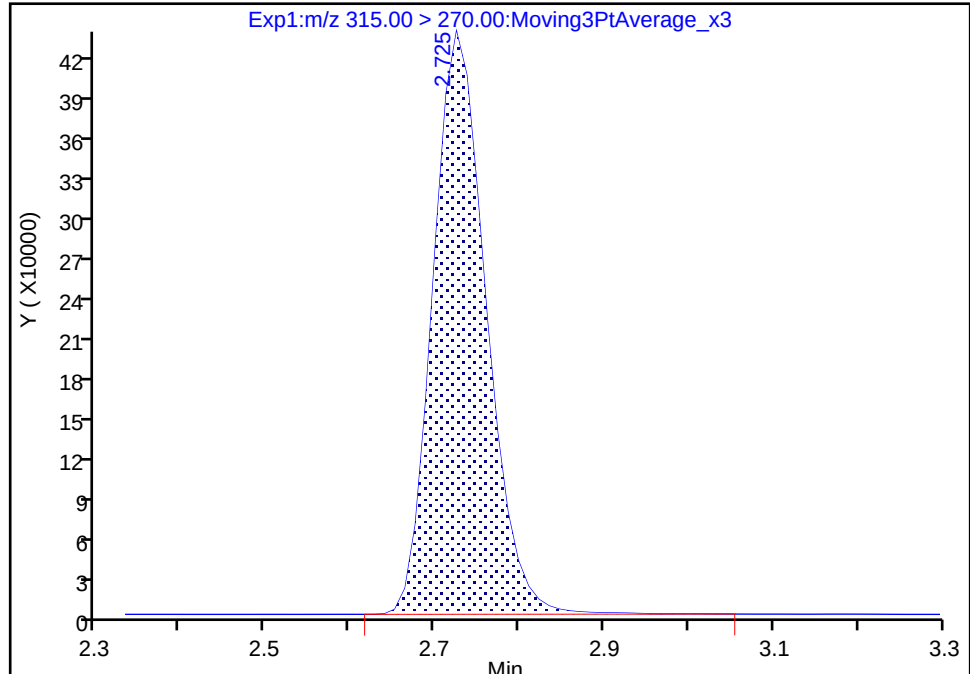
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

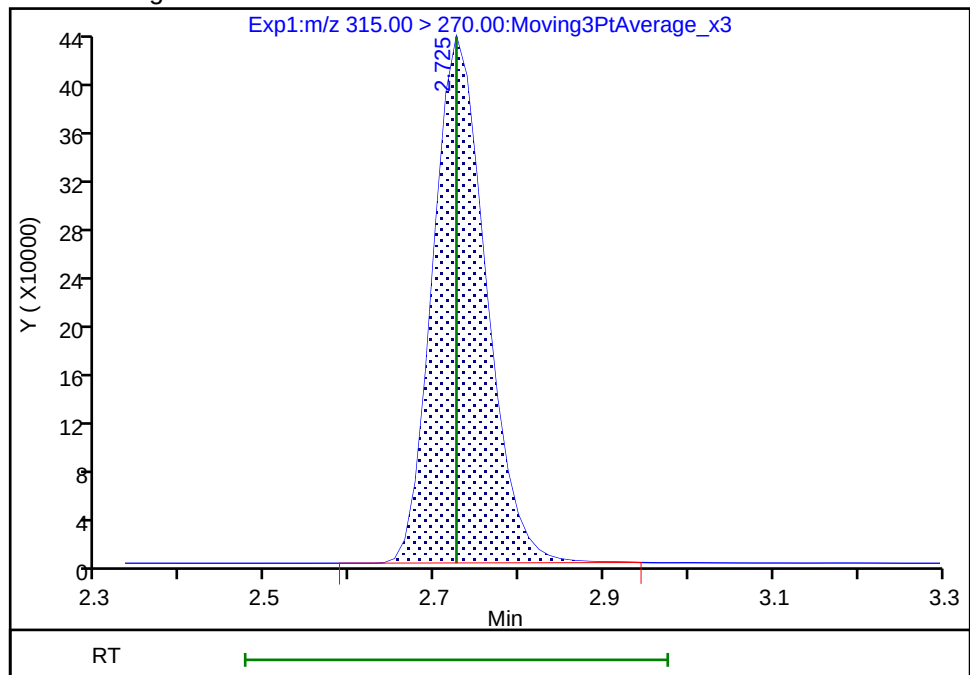
RT: 2.73
Area: 1911172
Amount: 1.275554
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1905245
Amount: 1.272270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

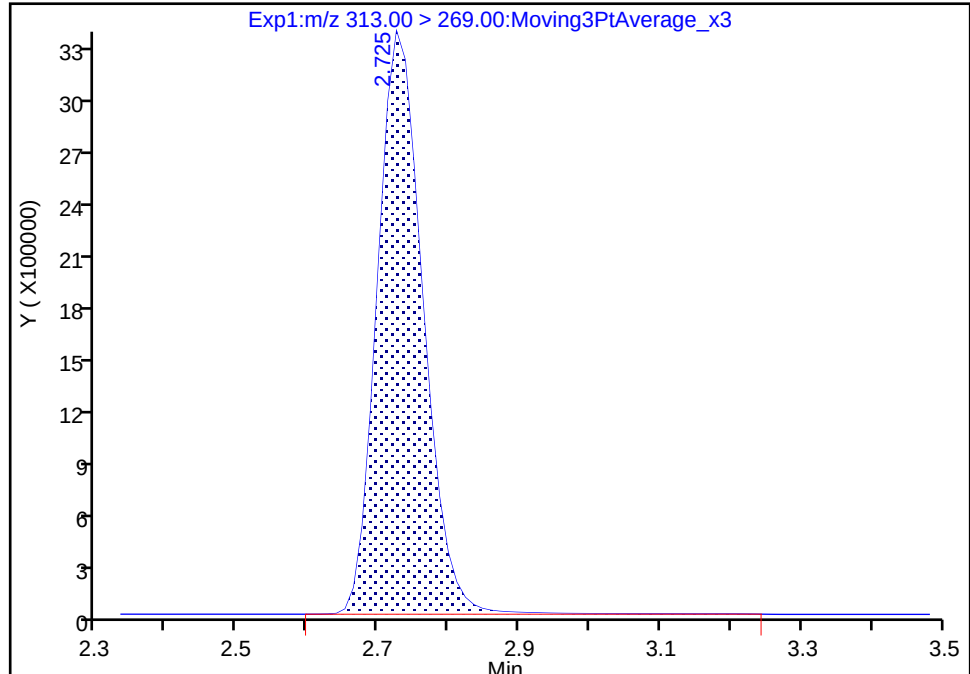
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

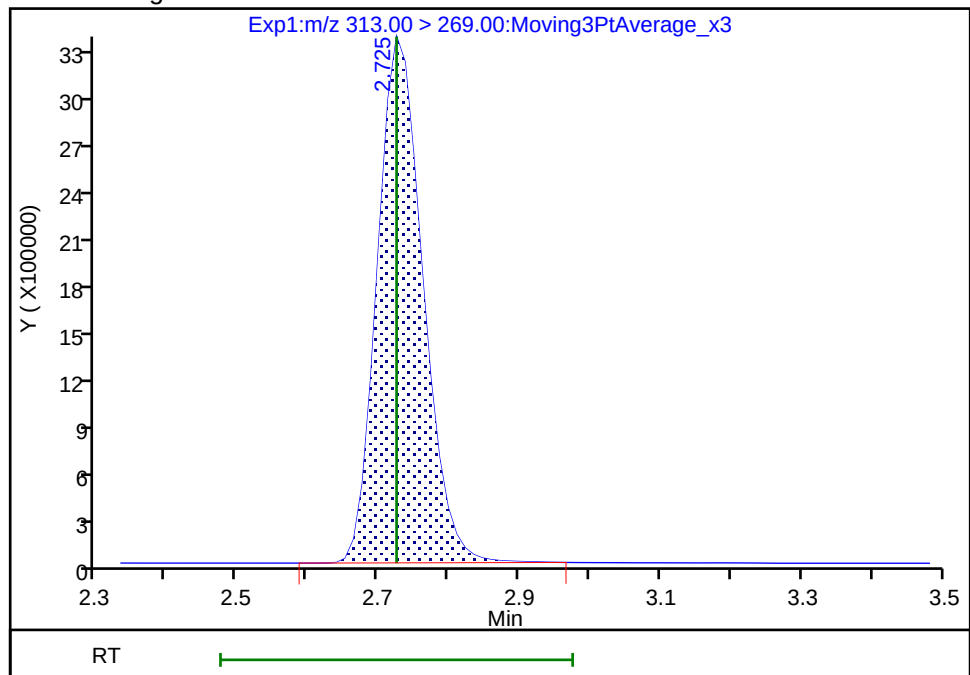
RT: 2.73
Area: 15003210
Amount: 9.027111
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 14928997
Amount: 8.989149
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

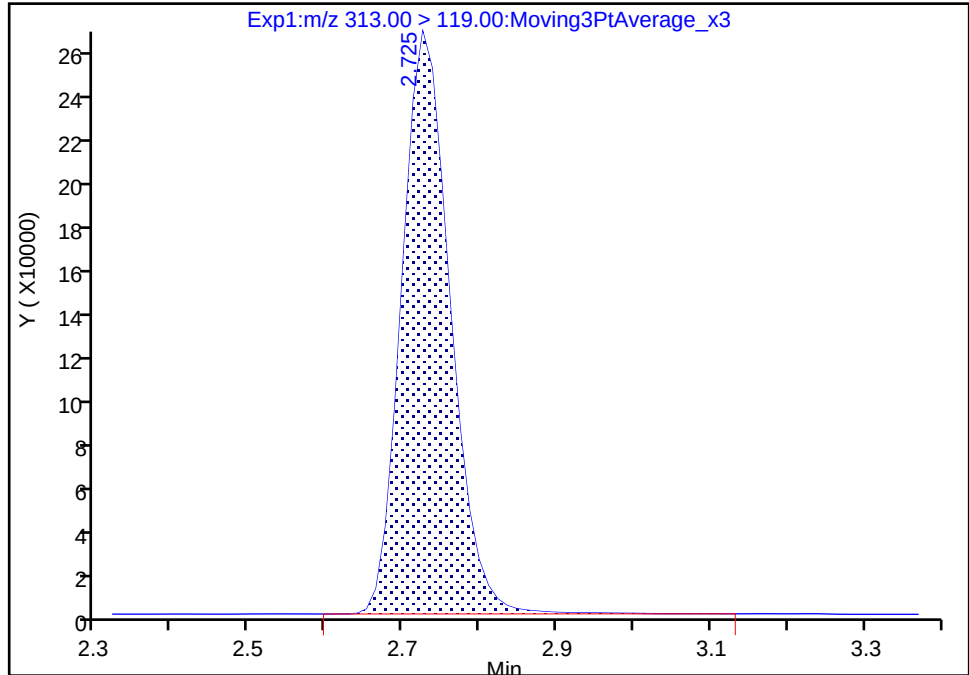
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

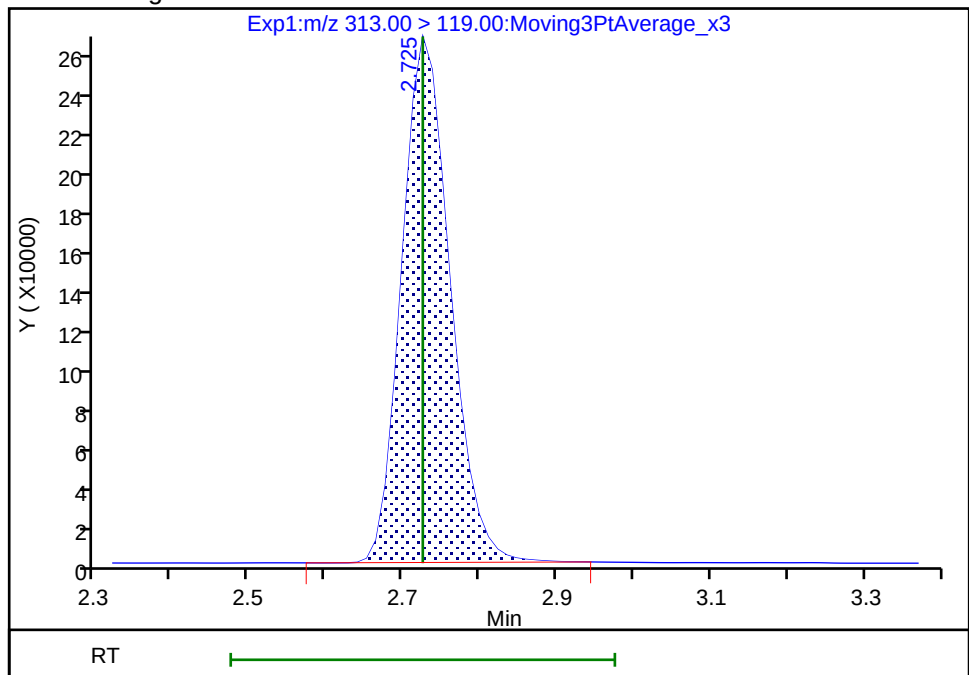
RT: 2.73
Area: 1145989
Amount: 9.027111
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1139463
Amount: 8.989149
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

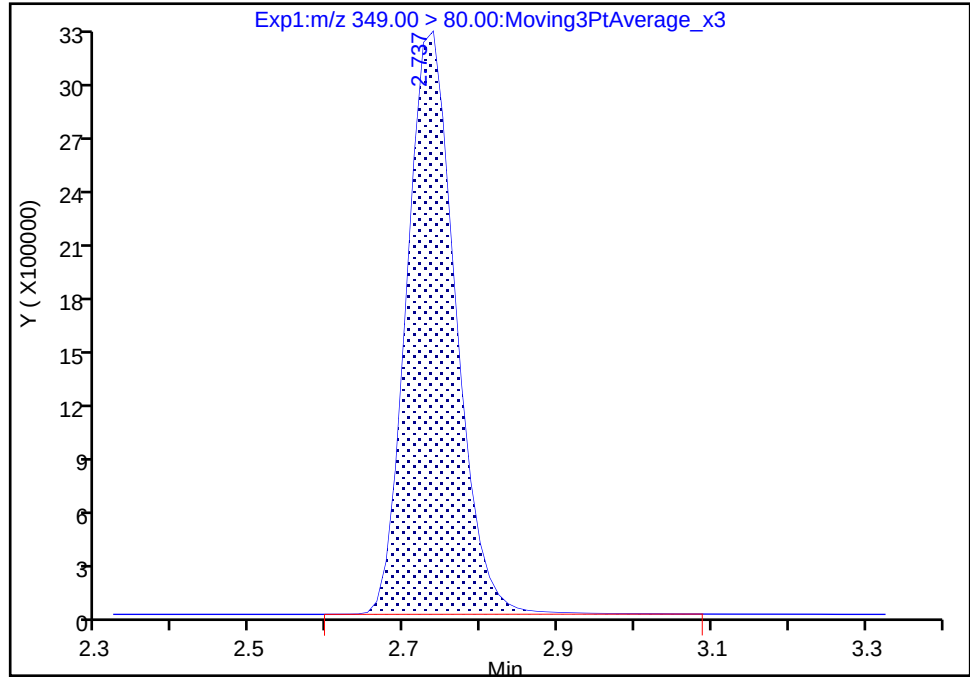
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

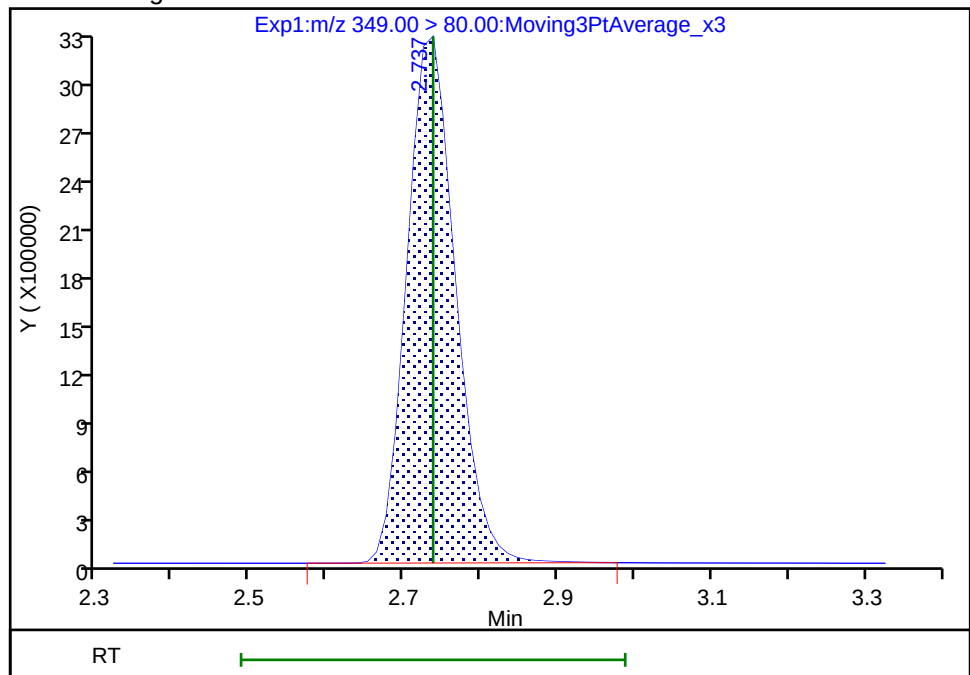
RT: 2.74
Area: 14186111
Amount: 8.840241
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 14151584
Amount: 8.842730
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

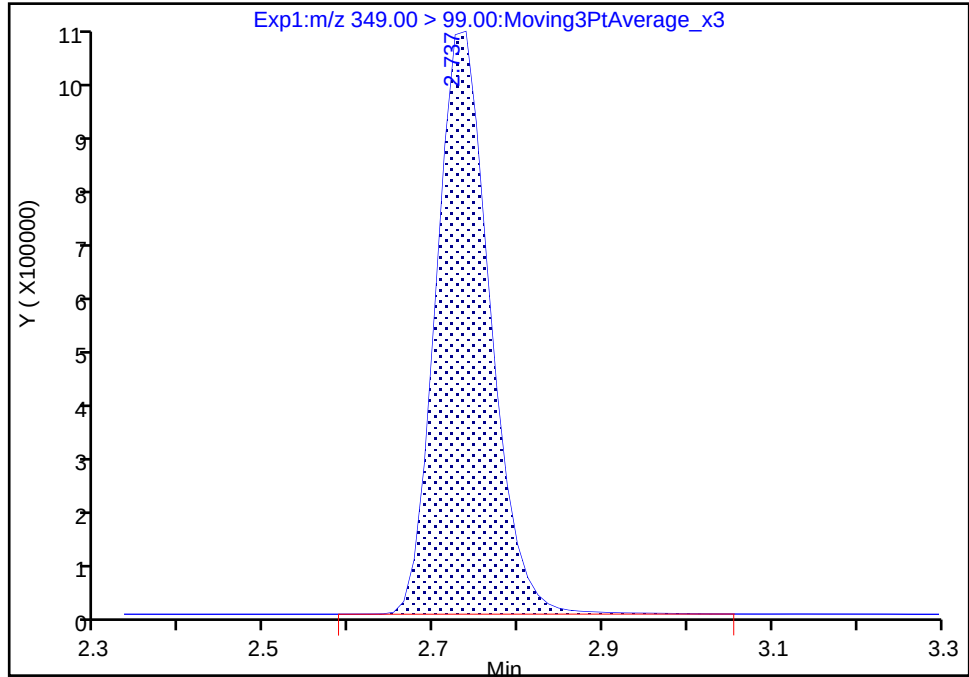
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

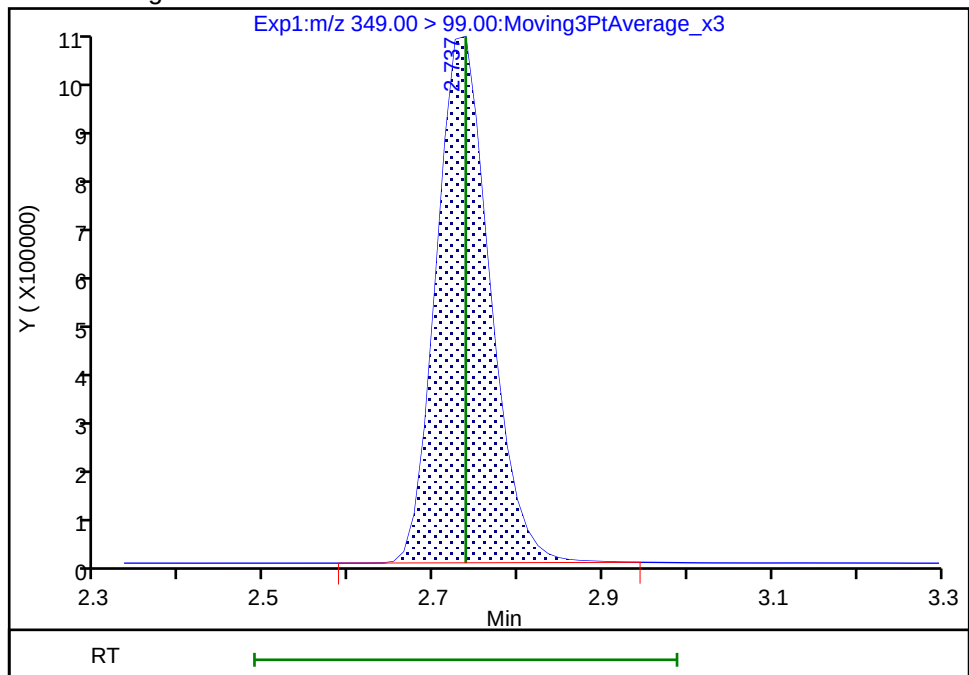
RT: 2.74
Area: 4717898
Amount: 8.840241
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 4699585
Amount: 8.842730
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

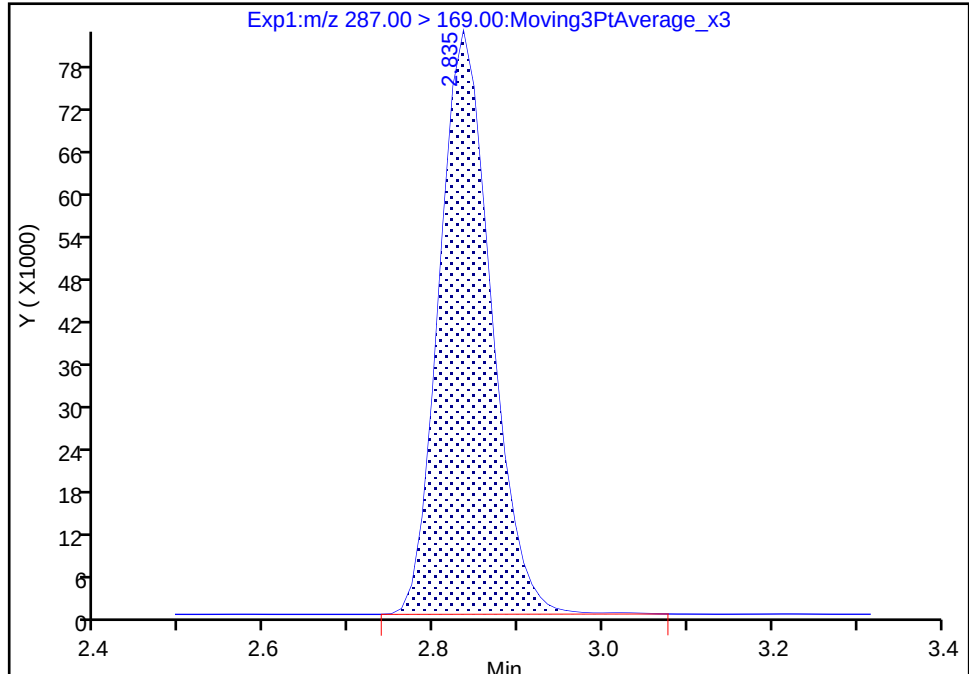
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

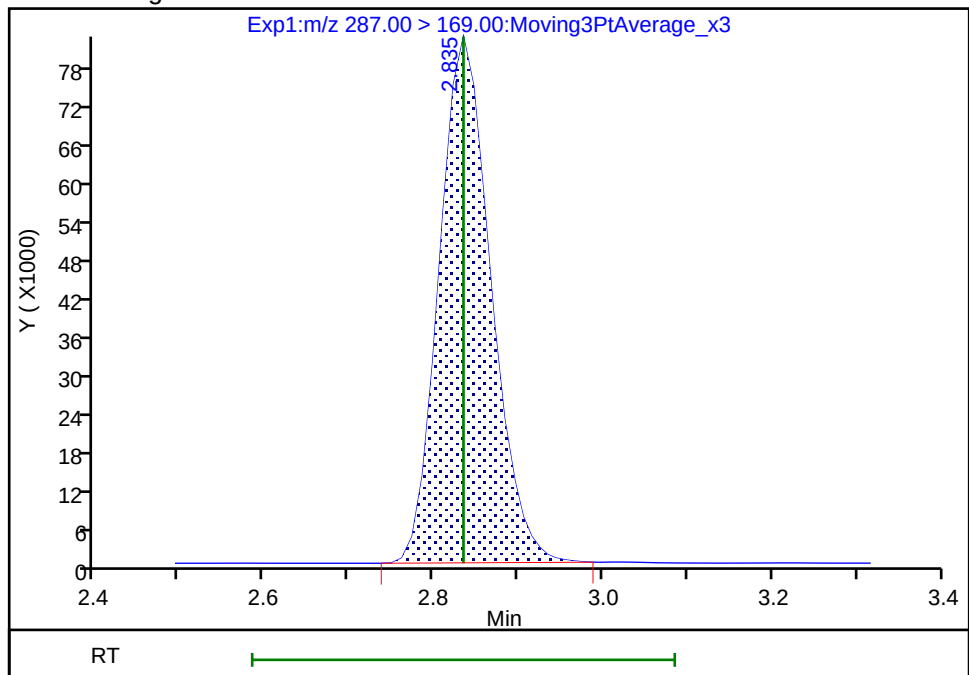
RT: 2.83
Area: 350493
Amount: 1.325043
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 349067
Amount: 1.320601
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

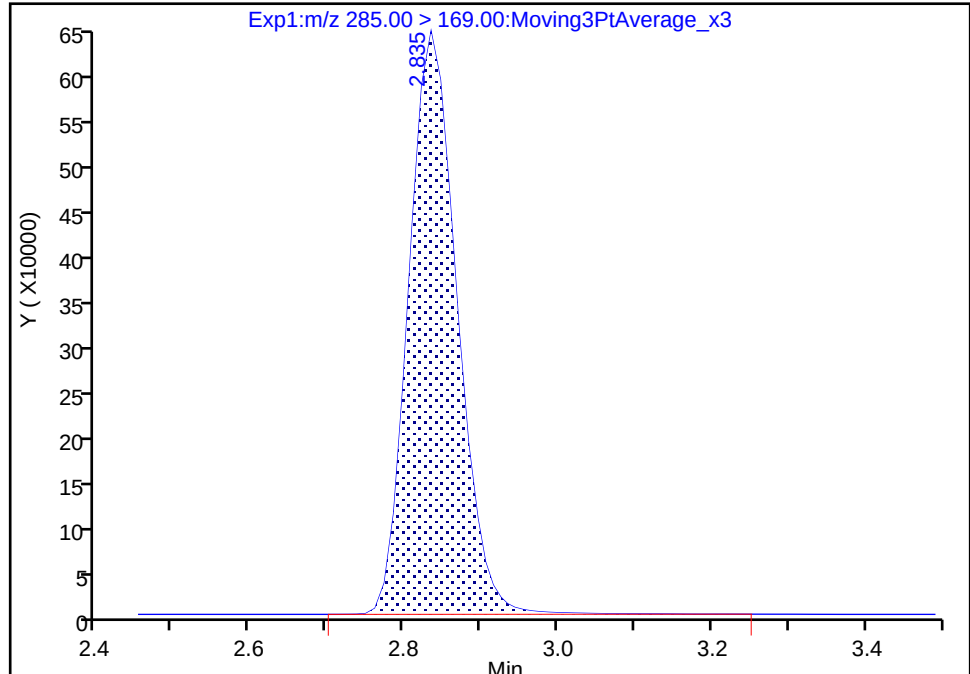
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

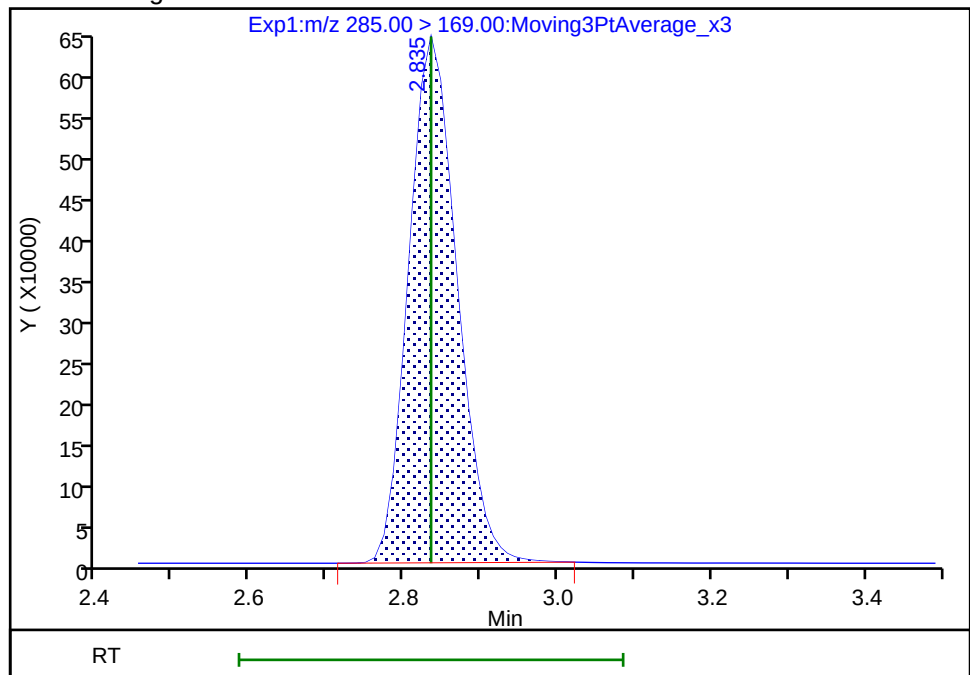
RT: 2.83
Area: 2806230
Amount: 9.475934
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 2790710
Amount: 9.464218
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

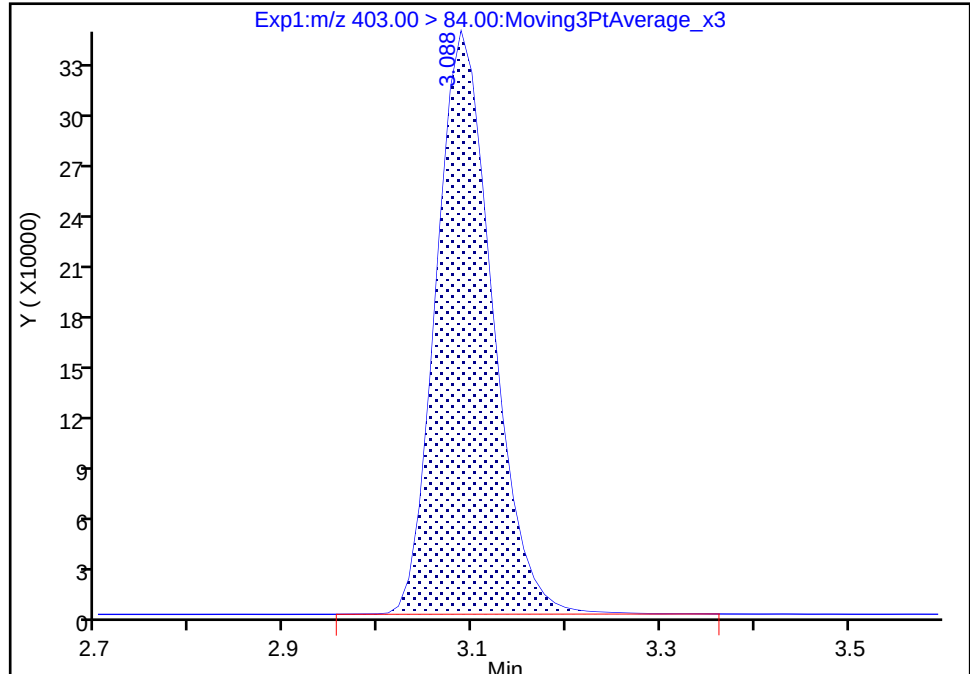
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

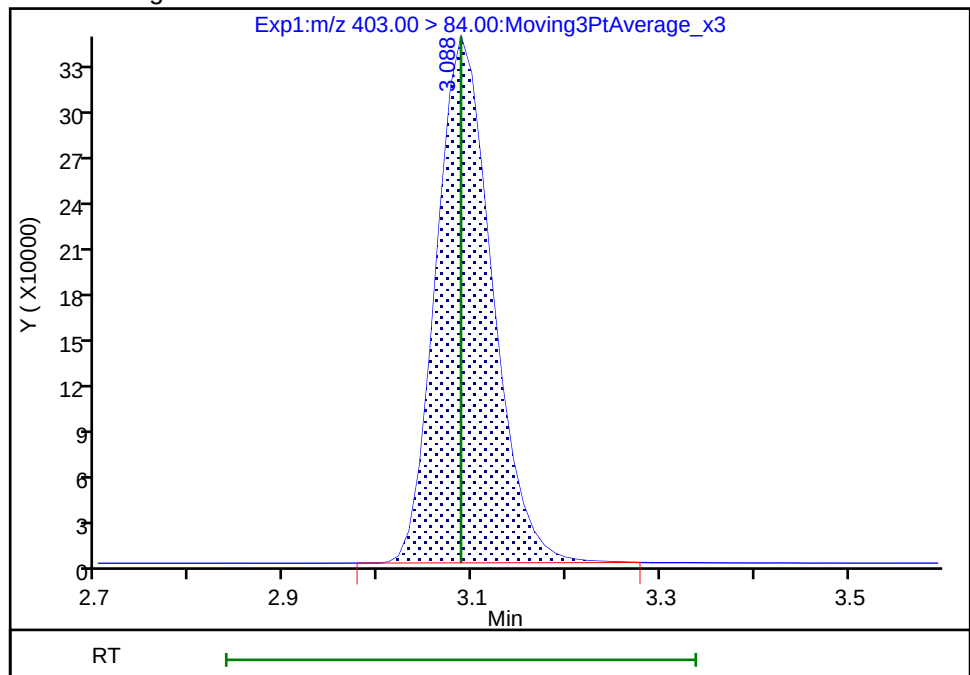
RT: 3.09
Area: 1421016
Amount: 1.255570
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1417084
Amount: 1.252709
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

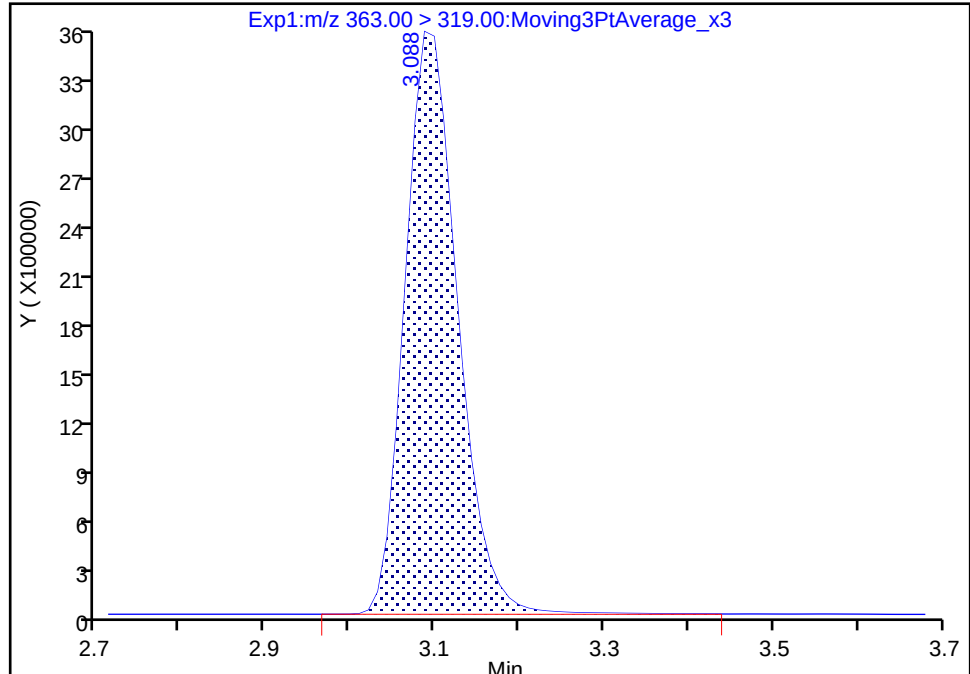
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

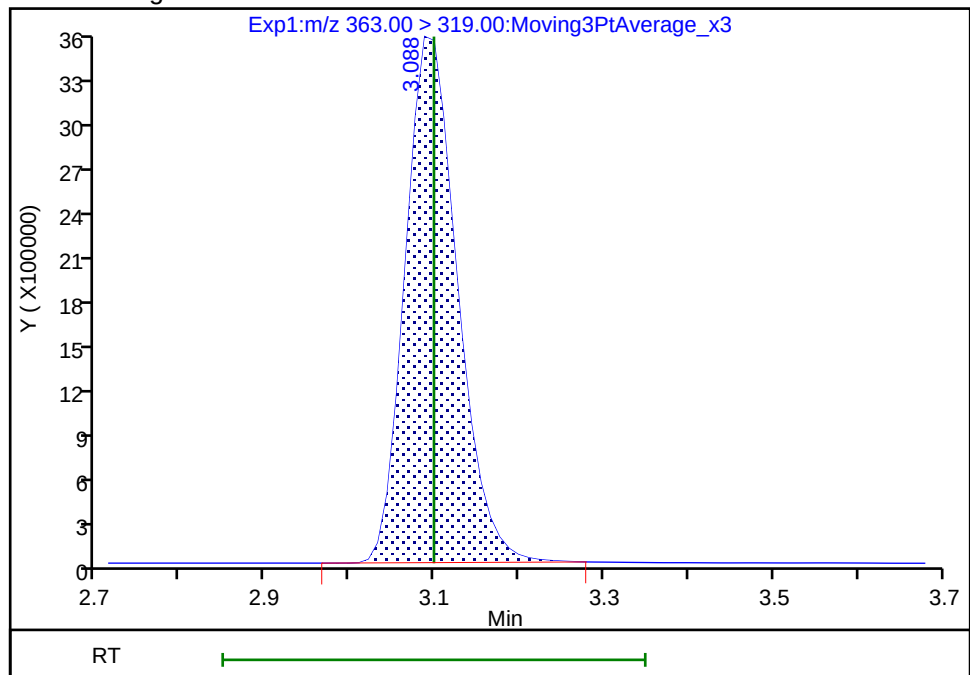
RT: 3.09
Area: 15507574
Amount: 9.027672
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 15384783
Amount: 8.966873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

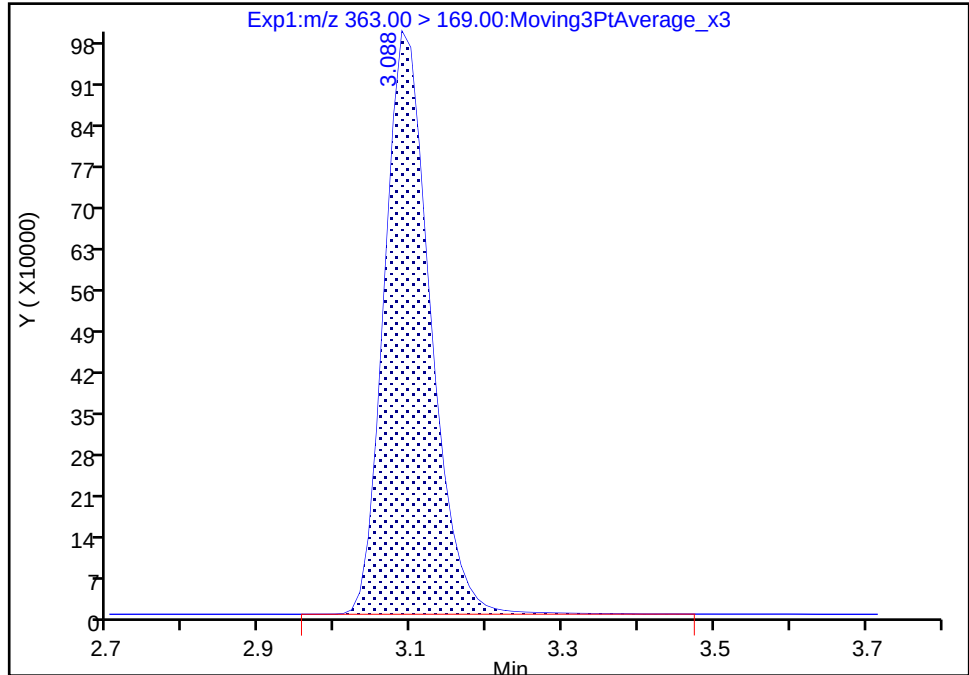
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

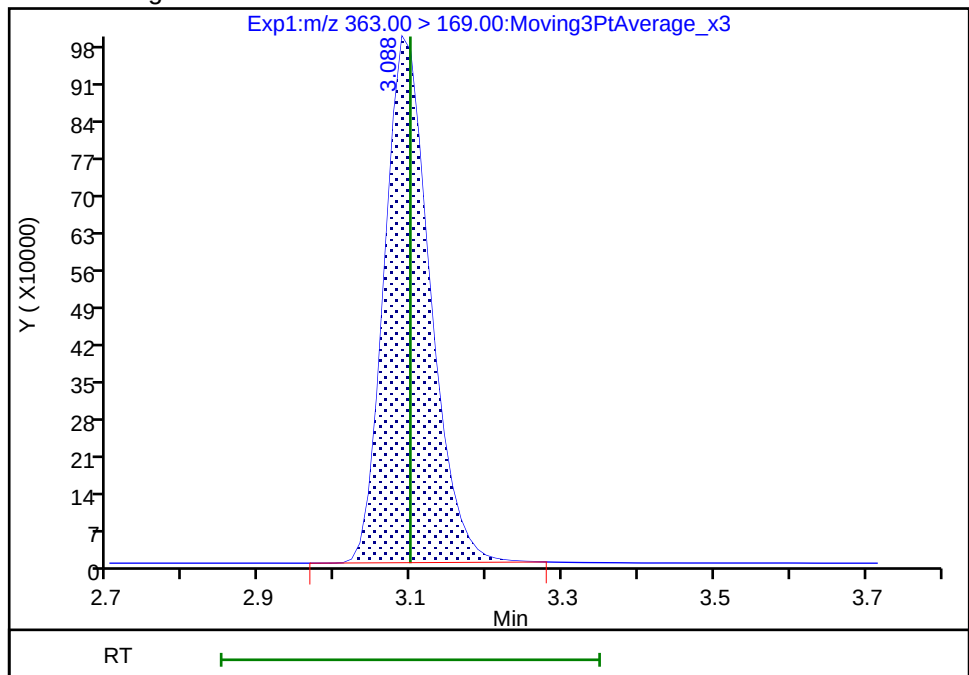
RT: 3.09
Area: 4165412
Amount: 9.027672
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 4138402
Amount: 8.966873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

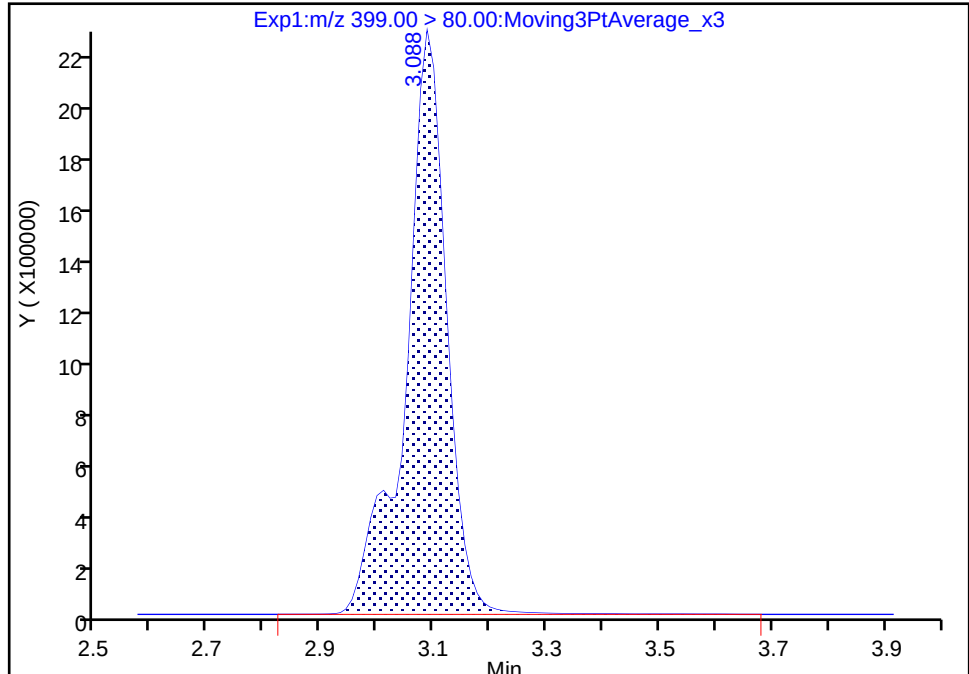
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

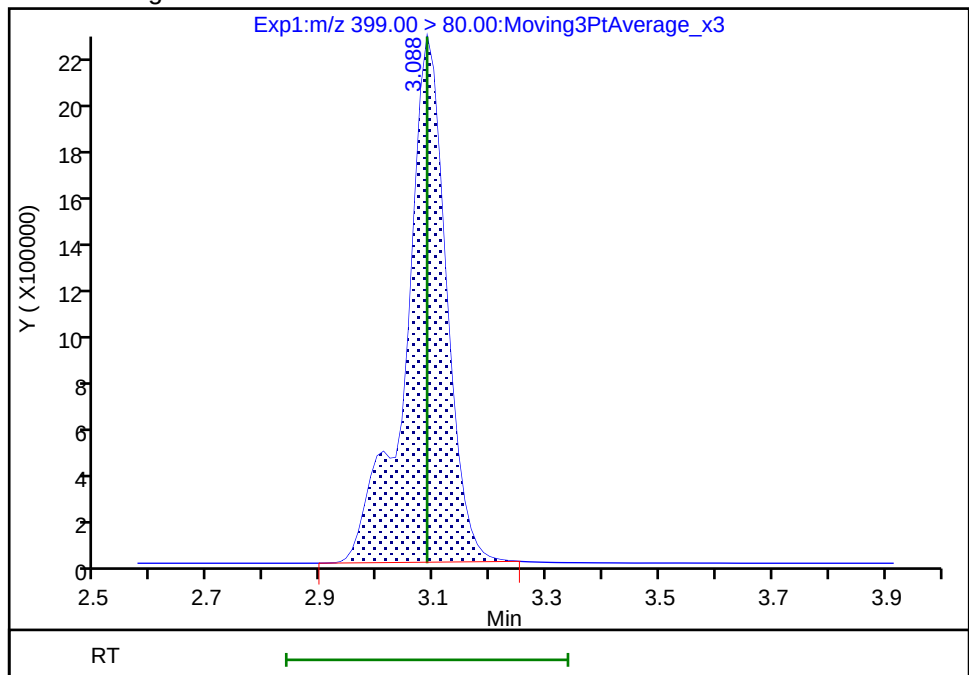
RT: 3.09
Area: 11572919
Amount: 8.540763
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 11438488
Amount: 8.456920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

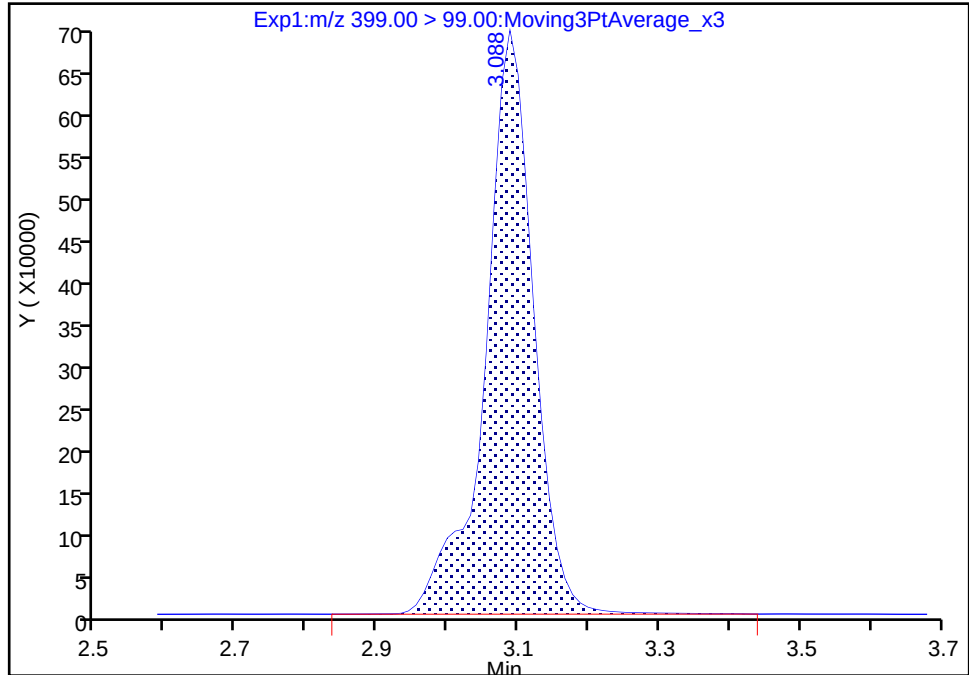
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

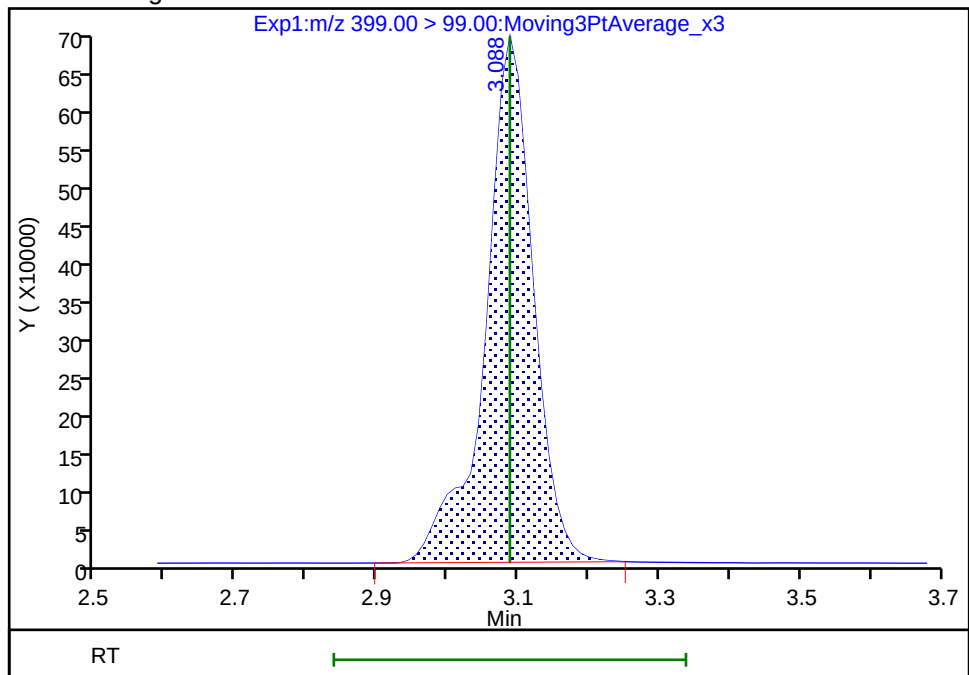
RT: 3.09
Area: 3294366
Amount: 8.540763
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3266390
Amount: 8.456920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

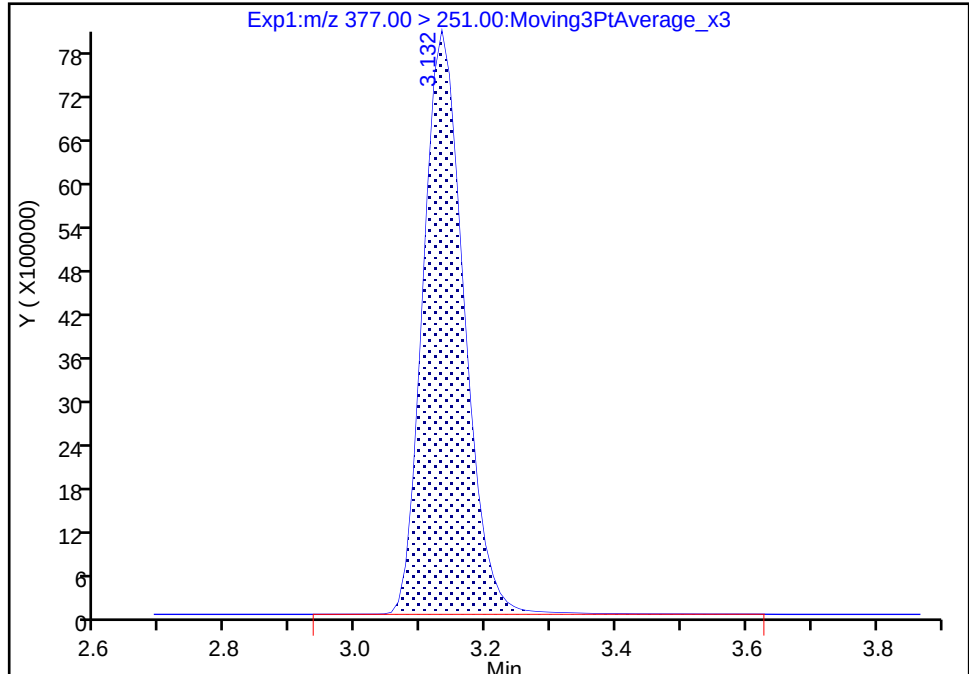
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

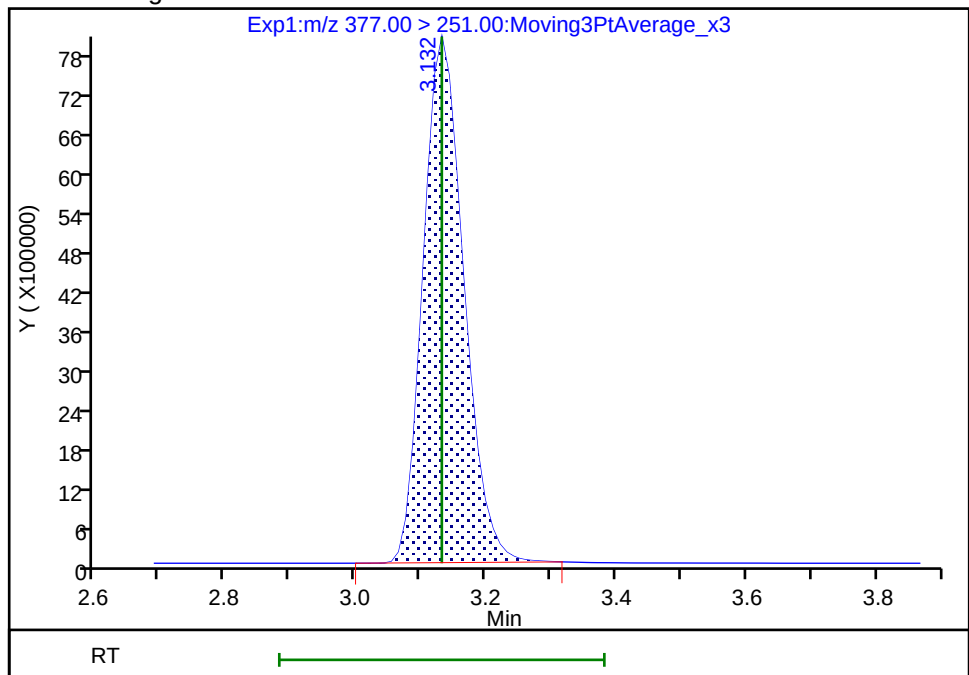
RT: 3.13
Area: 35196938
Amount: 7.677645
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 34921387
Amount: 7.625648
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

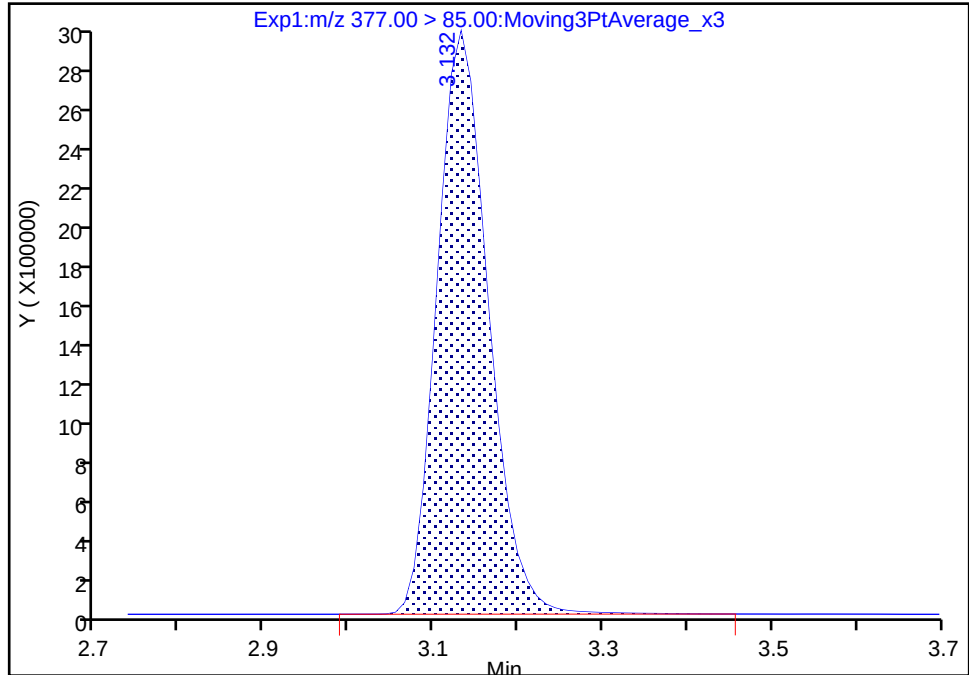
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

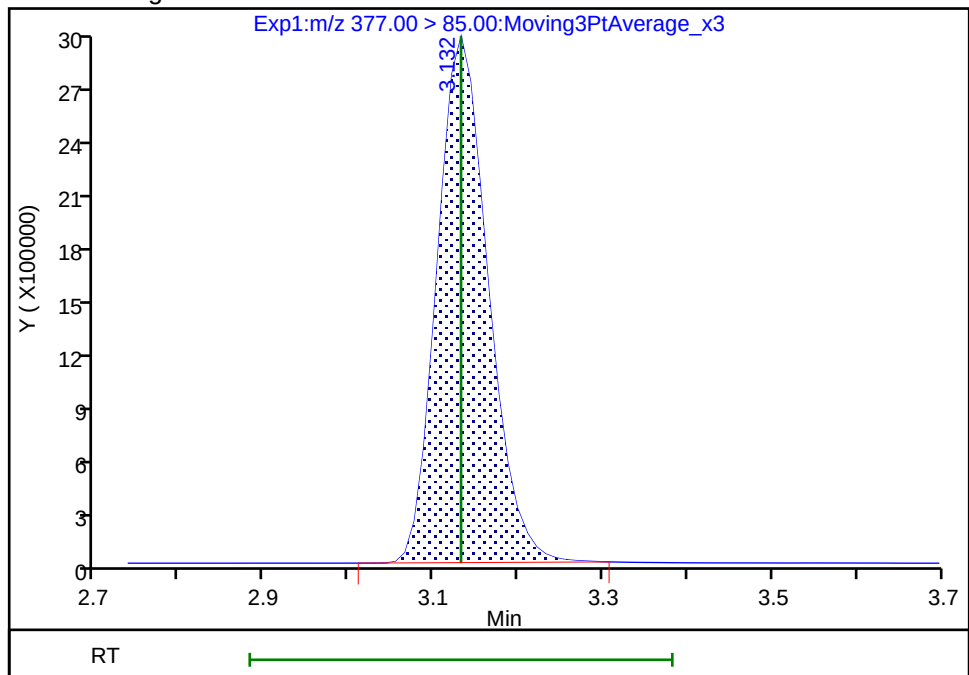
RT: 3.13
Area: 12365652
Amount: 7.677645
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 12293064
Amount: 7.625648
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

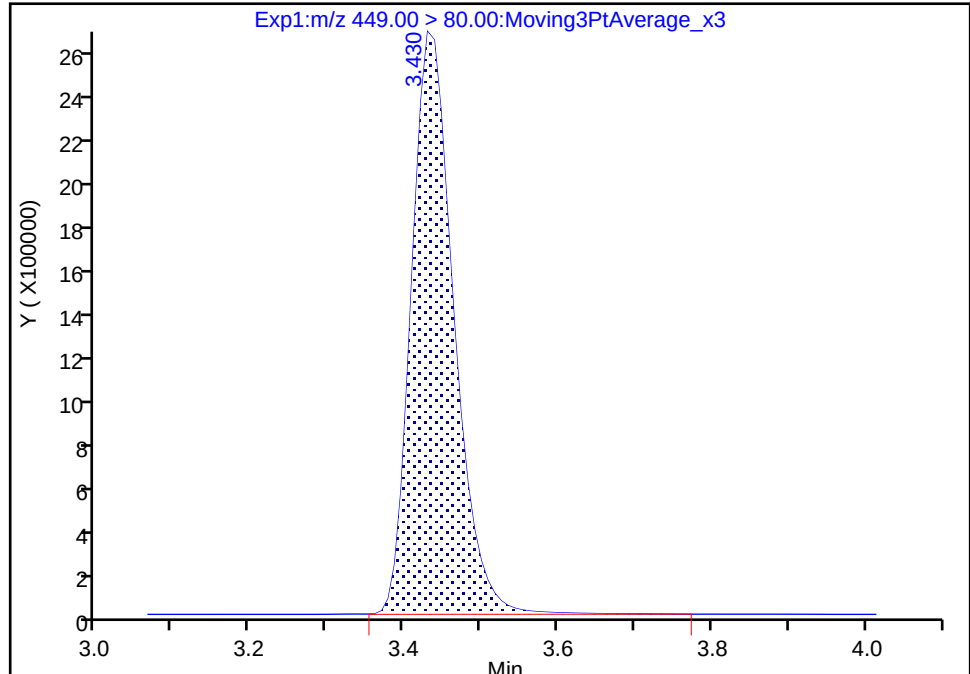
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

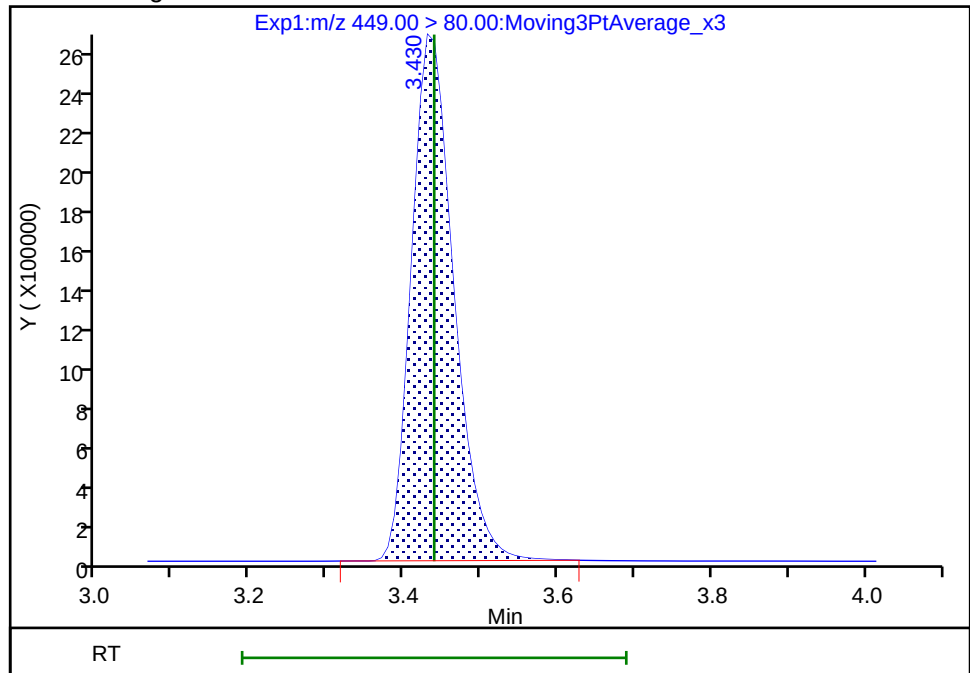
RT: 3.43
Area: 10231634
Amount: 8.801285
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 10171074
Amount: 8.757178
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

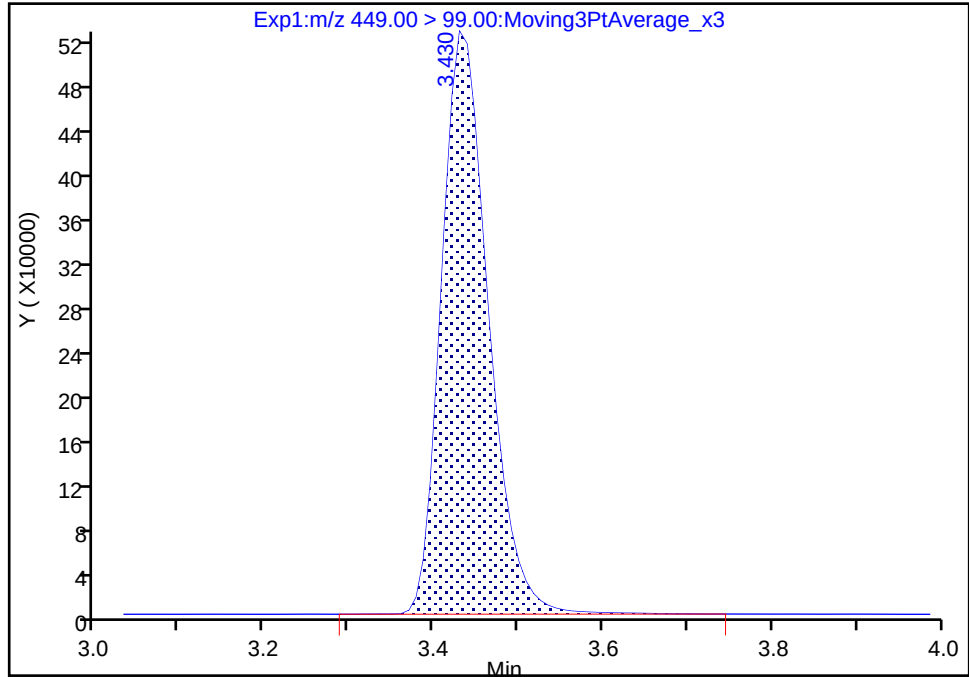
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

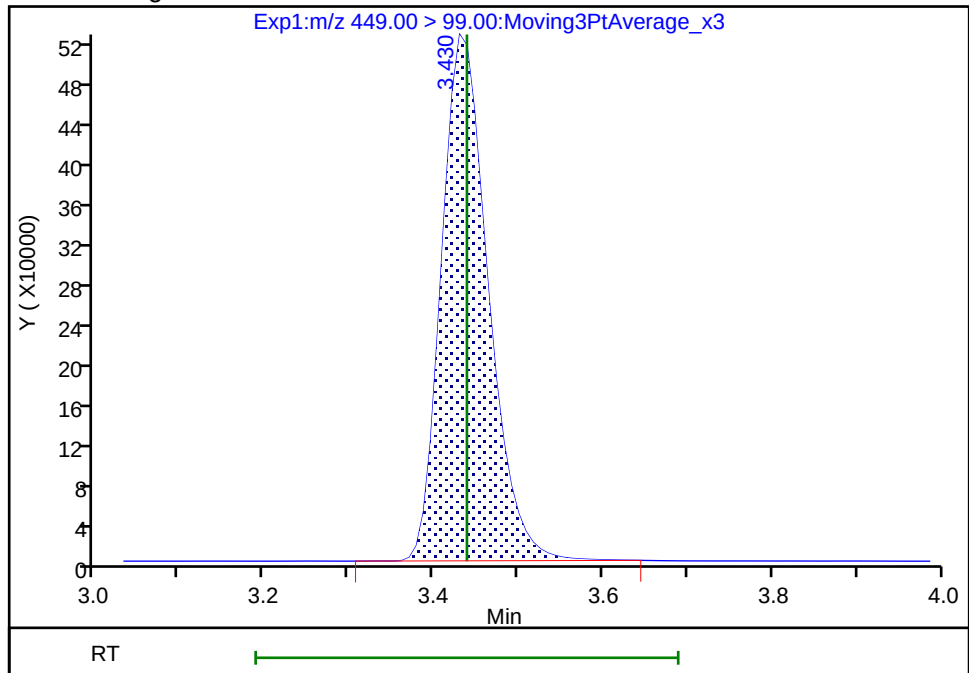
RT: 3.43
Area: 1997290
Amount: 8.801285
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1989808
Amount: 8.757178
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

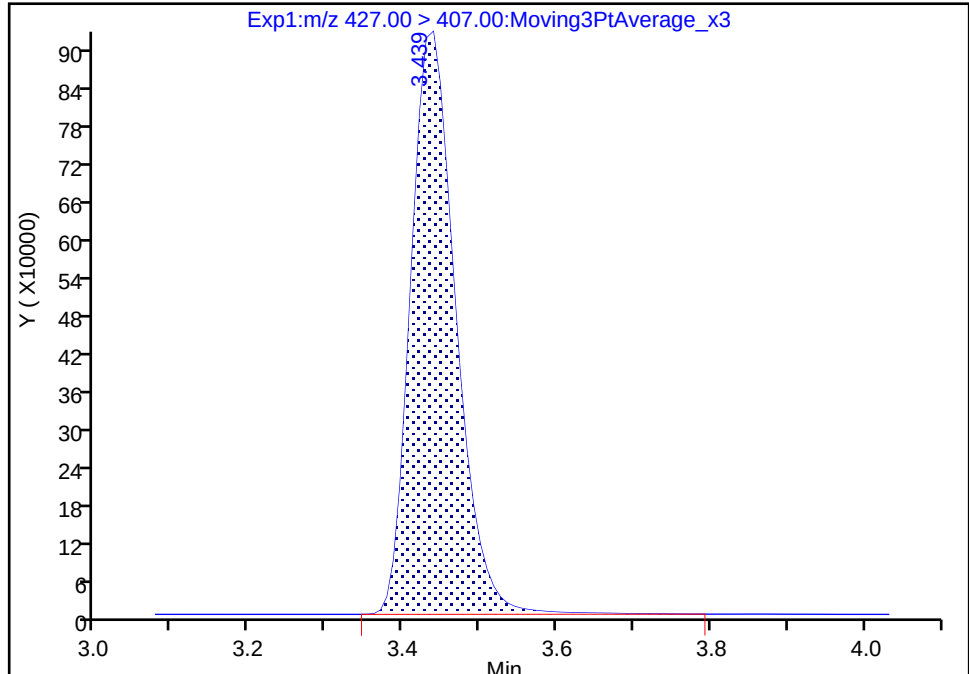
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

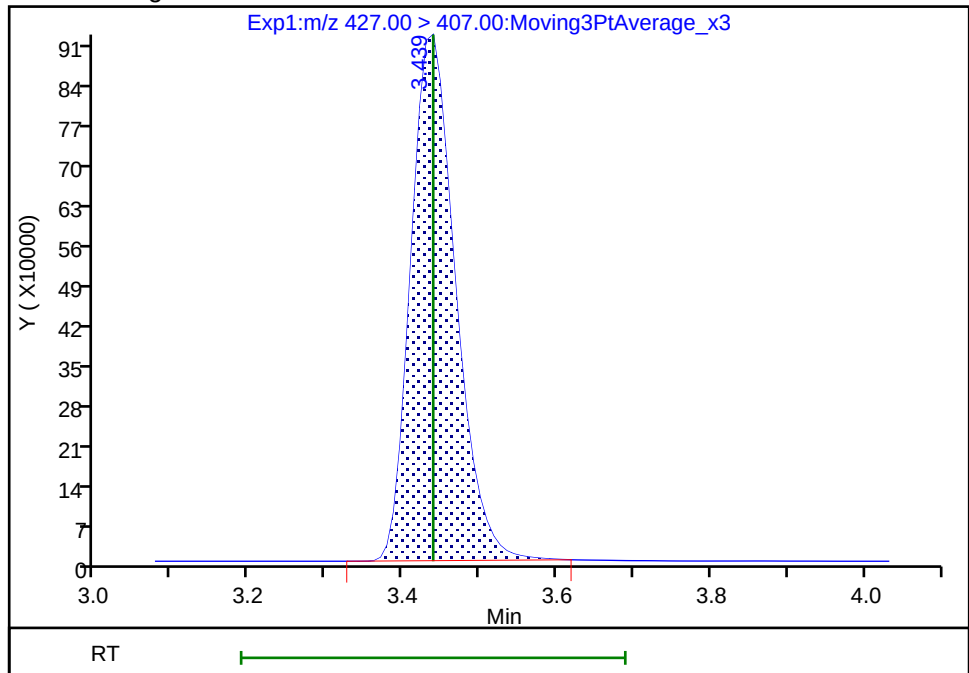
RT: 3.44
Area: 3774301
Amount: 8.926391
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 3743844
Amount: 9.473646
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

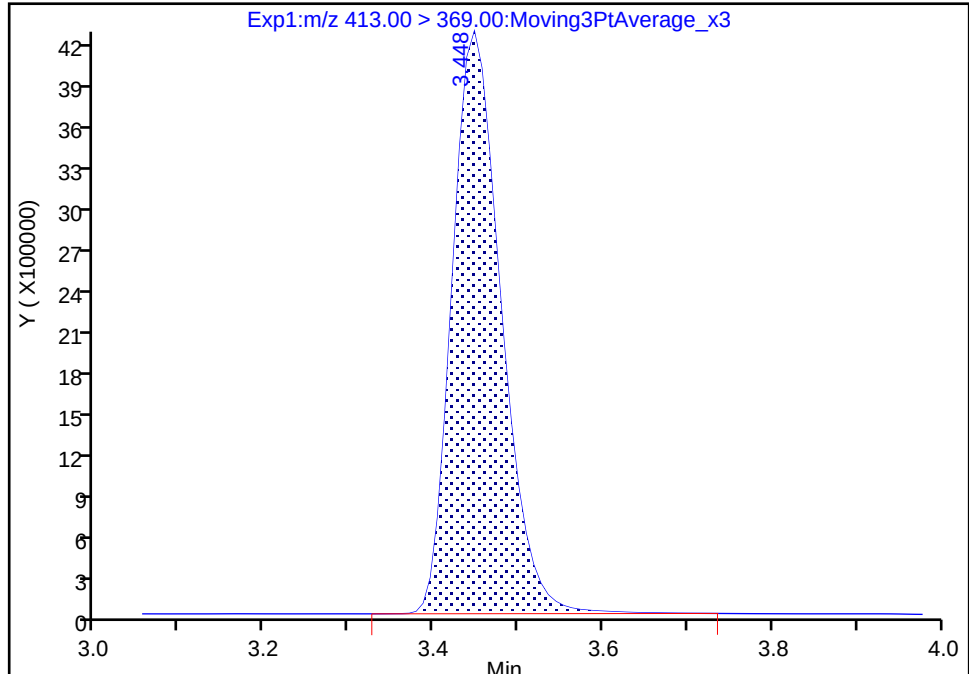
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

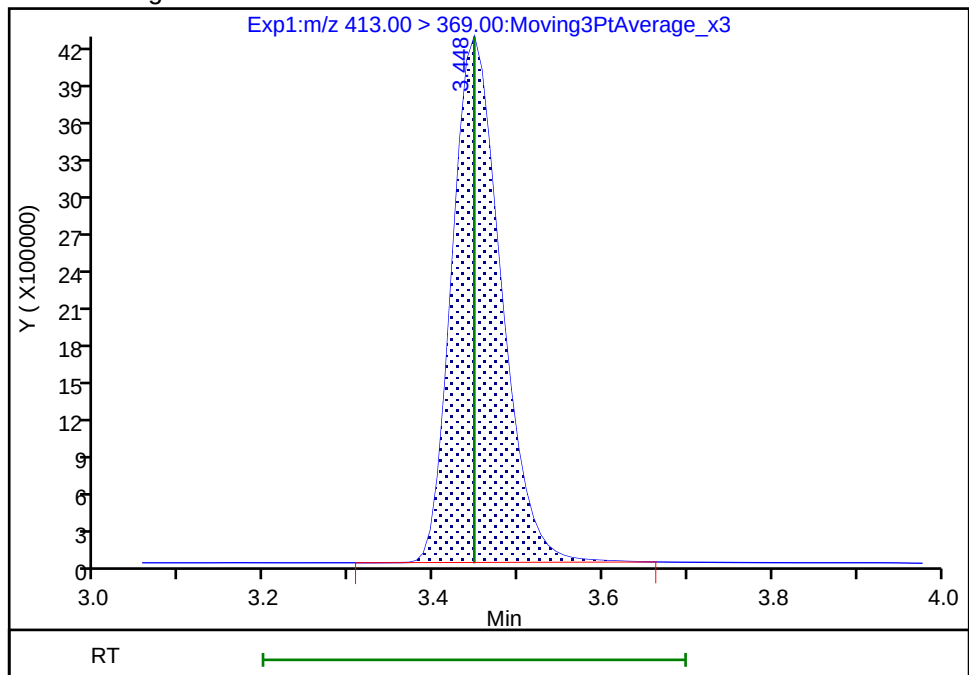
RT: 3.45
Area: 17030570
Amount: 9.031728
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 16977289
Amount: 9.007714
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

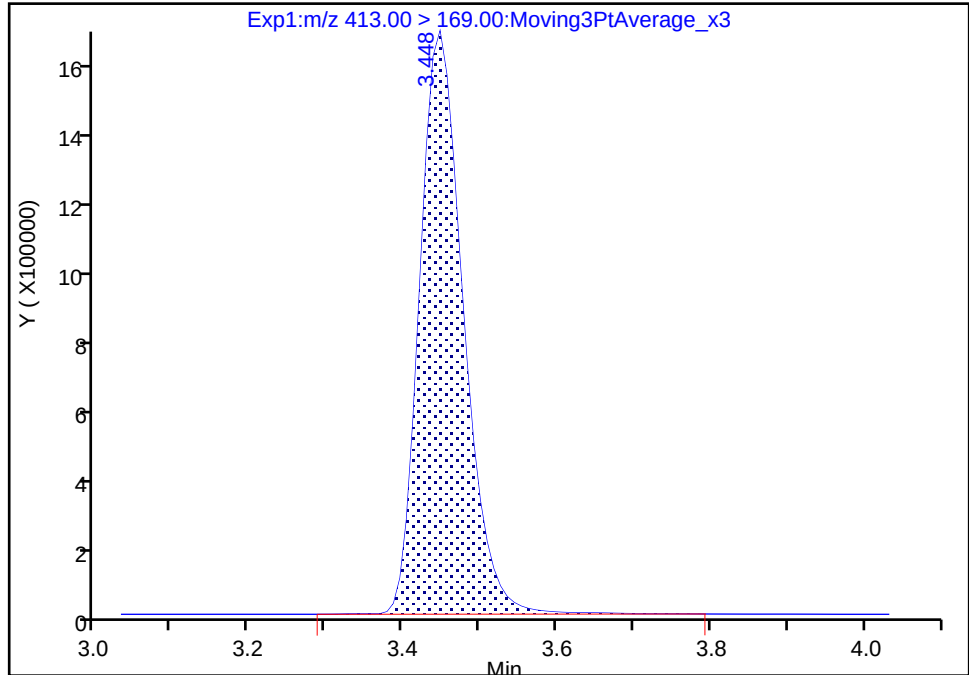
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

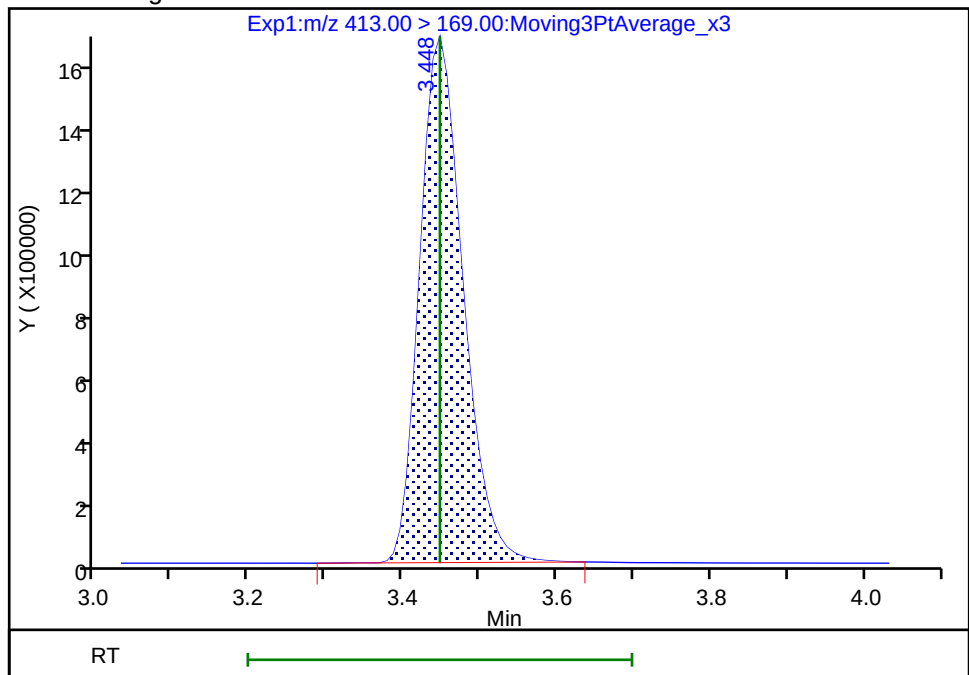
RT: 3.45
Area: 6304212
Amount: 9.031728
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 6260421
Amount: 9.007714
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

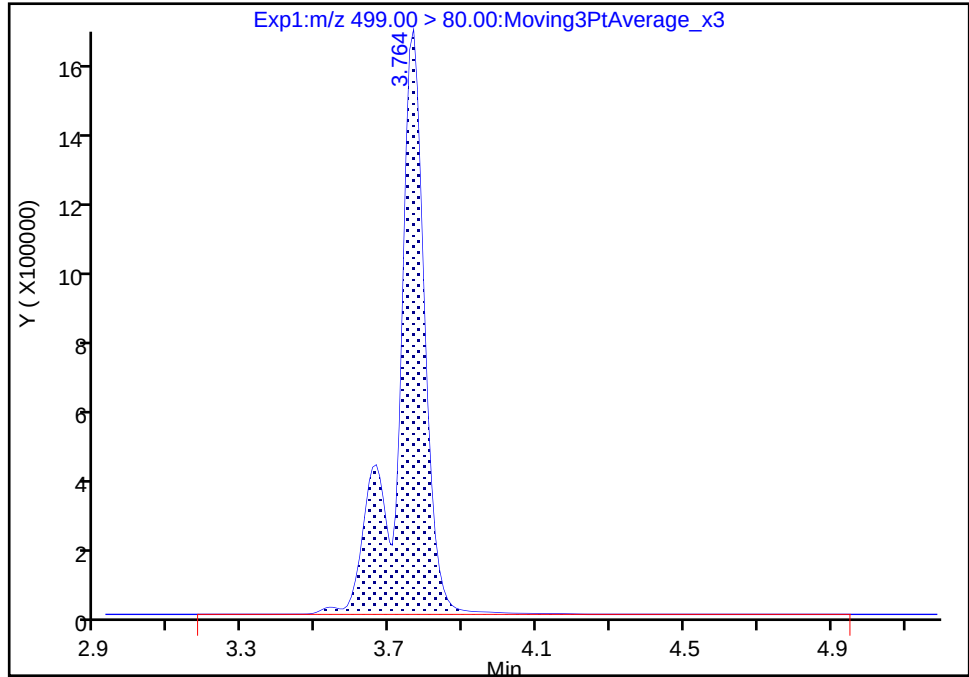
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

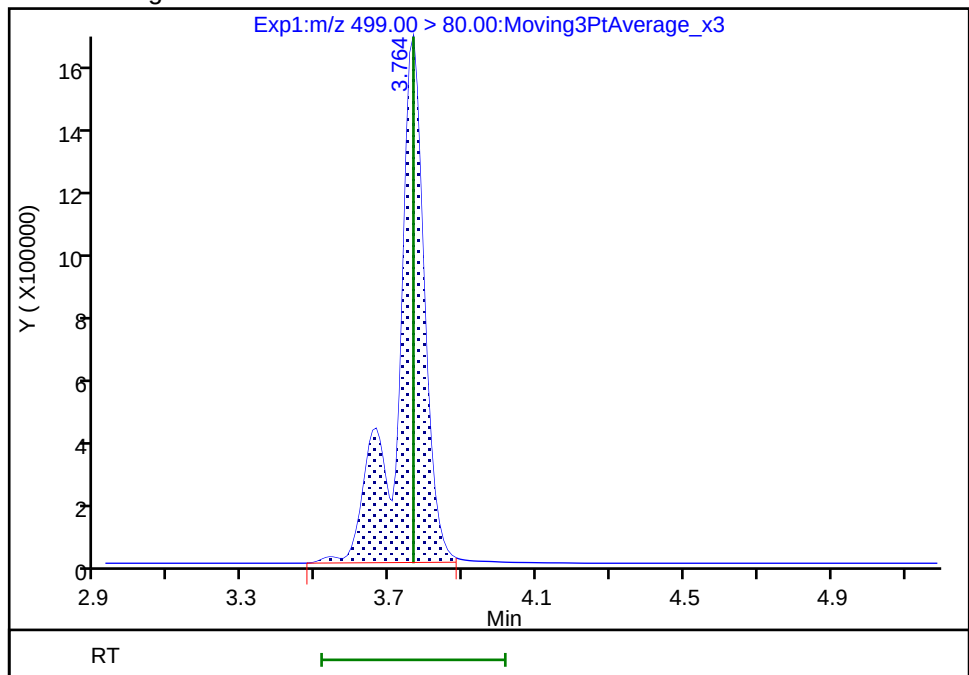
RT: 3.76
Area: 8658897
Amount: 8.543354
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 8534676
Amount: 8.439368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

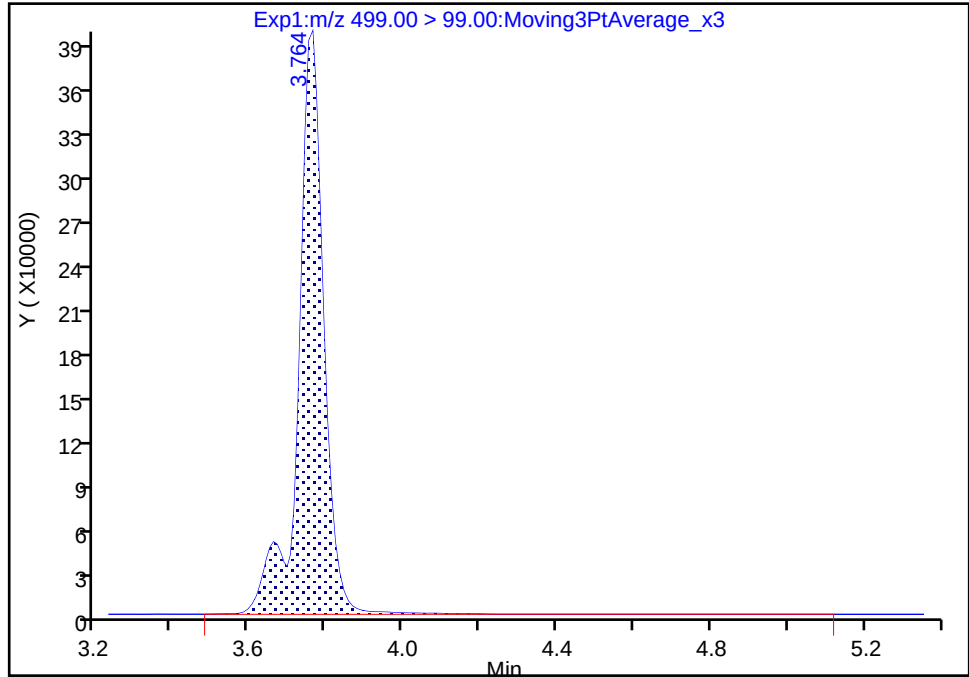
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

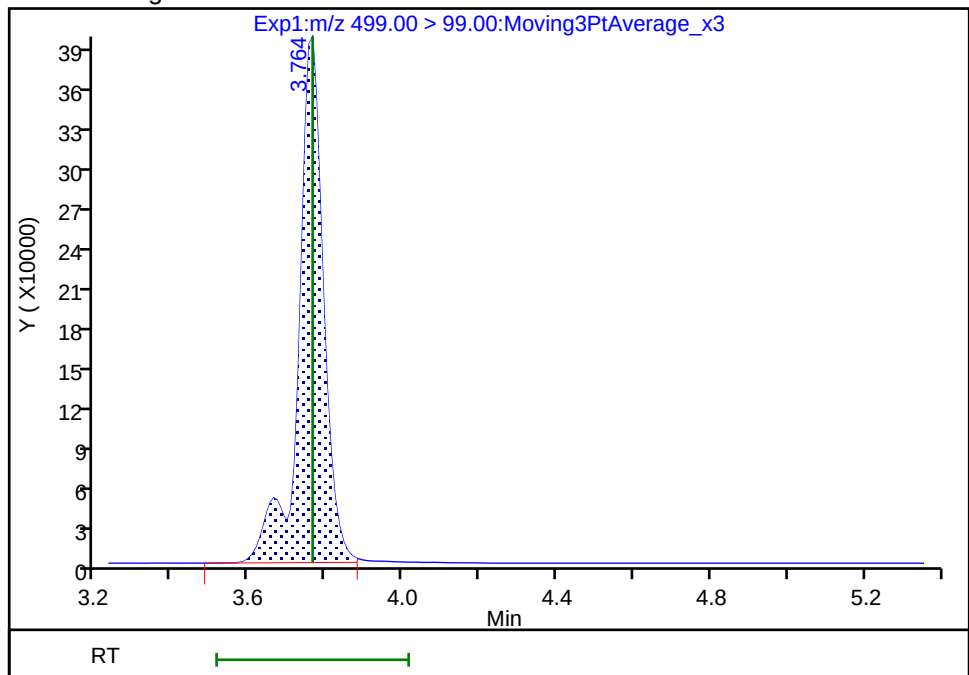
RT: 3.76
Area: 1795864
Amount: 8.543354
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1770034
Amount: 8.439368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

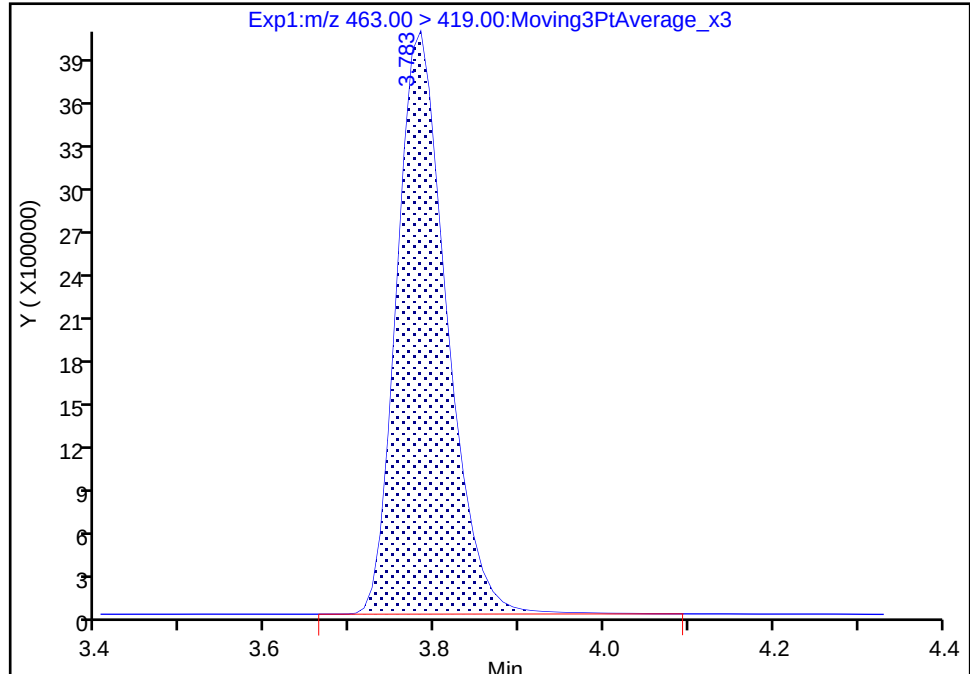
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

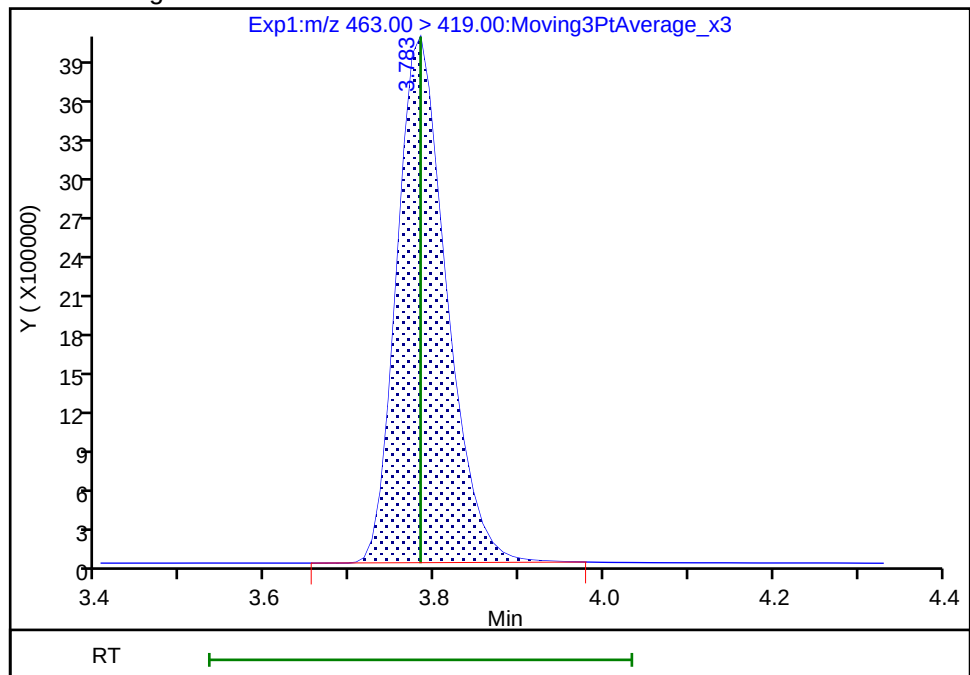
RT: 3.78
Area: 16420625
Amount: 9.401886
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 16342622
Amount: 9.364194
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

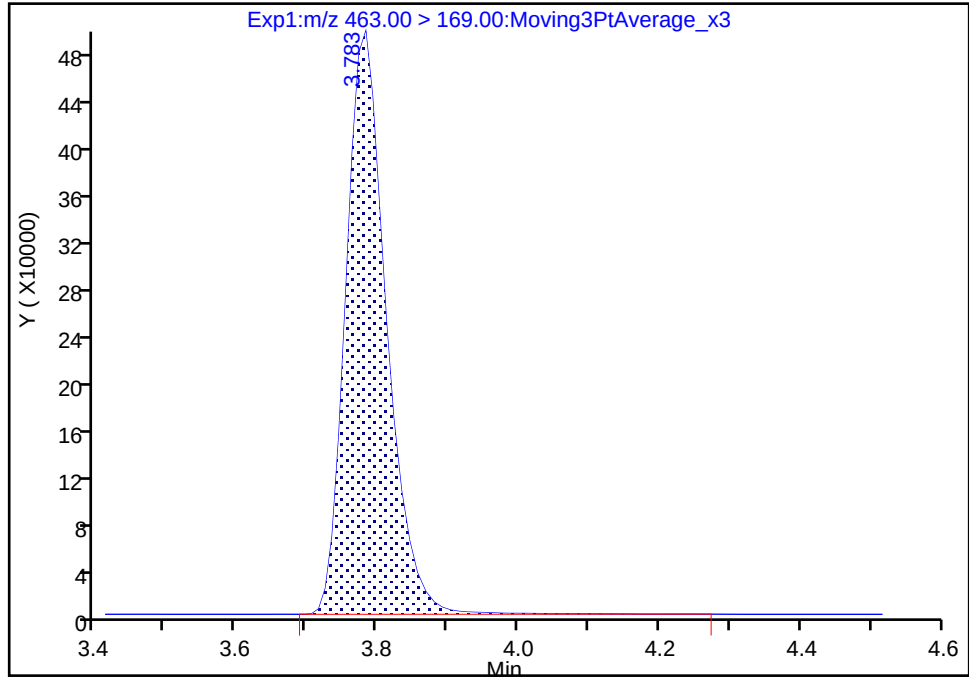
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

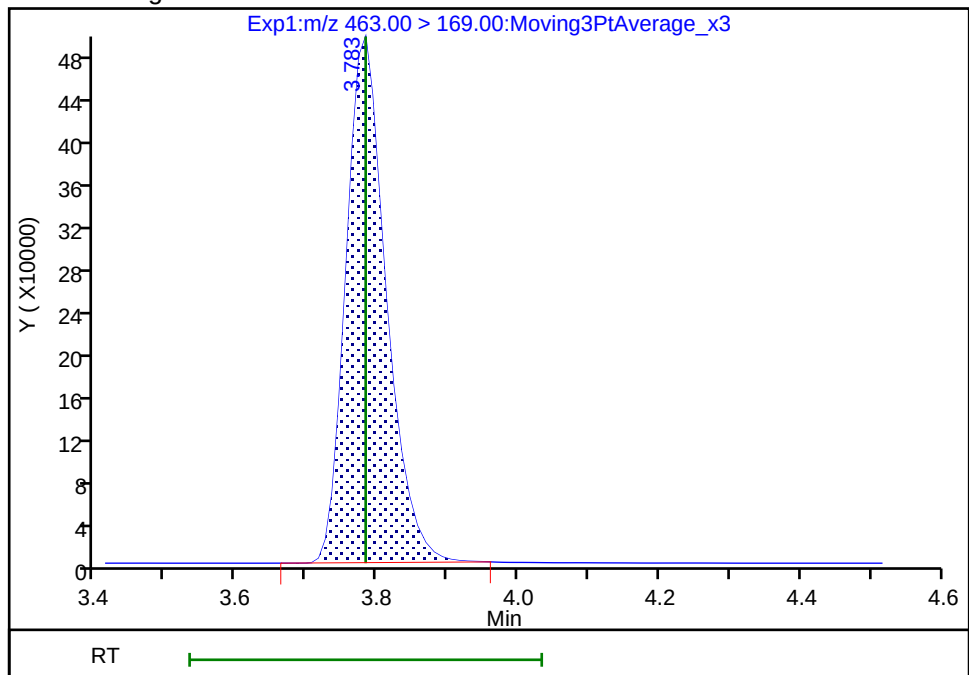
RT: 3.78
Area: 1954132
Amount: 9.401886
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 1938179
Amount: 9.364194
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

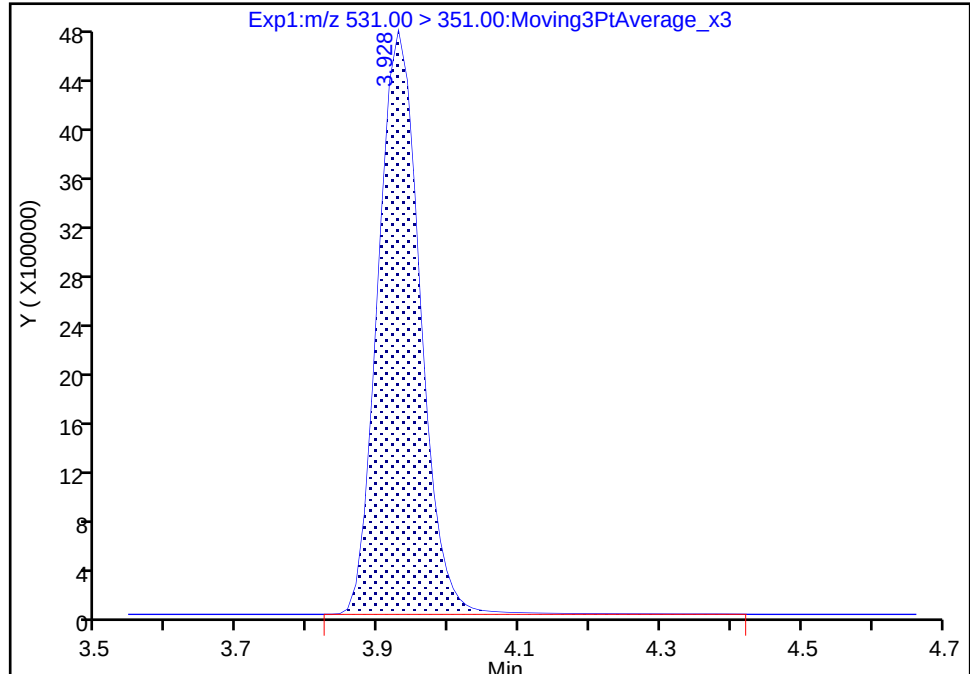
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

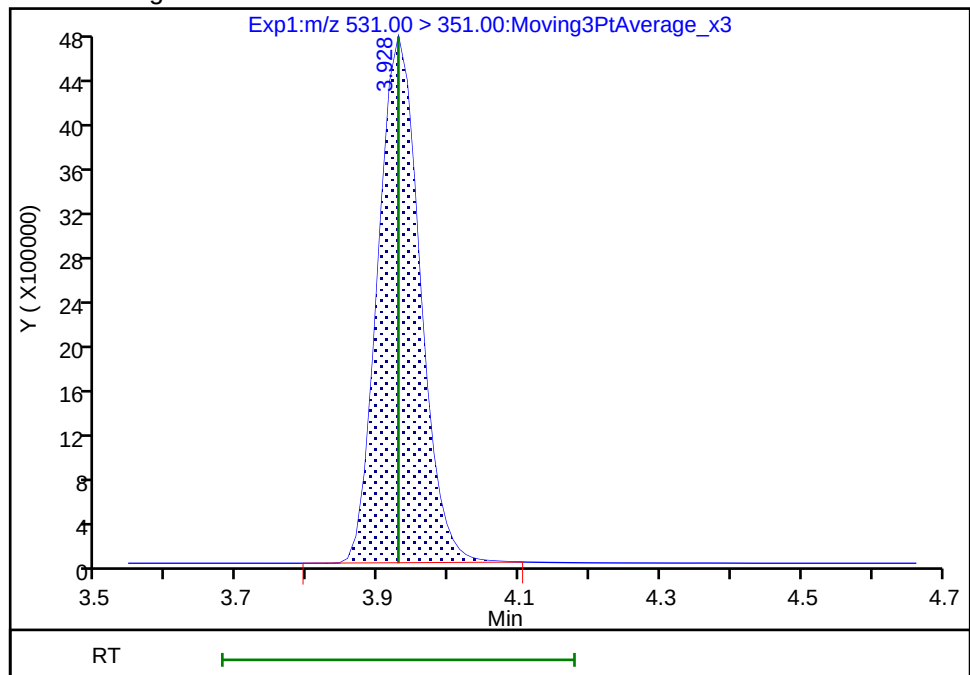
RT: 3.93
Area: 19643577
Amount: 8.453015
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 19485090
Amount: 8.395054
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

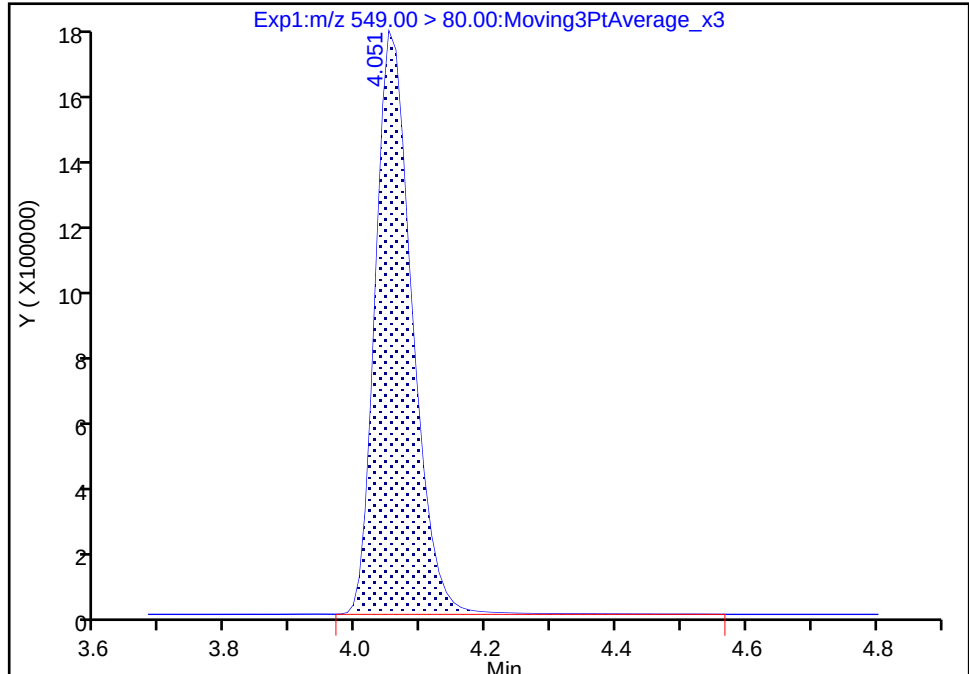
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

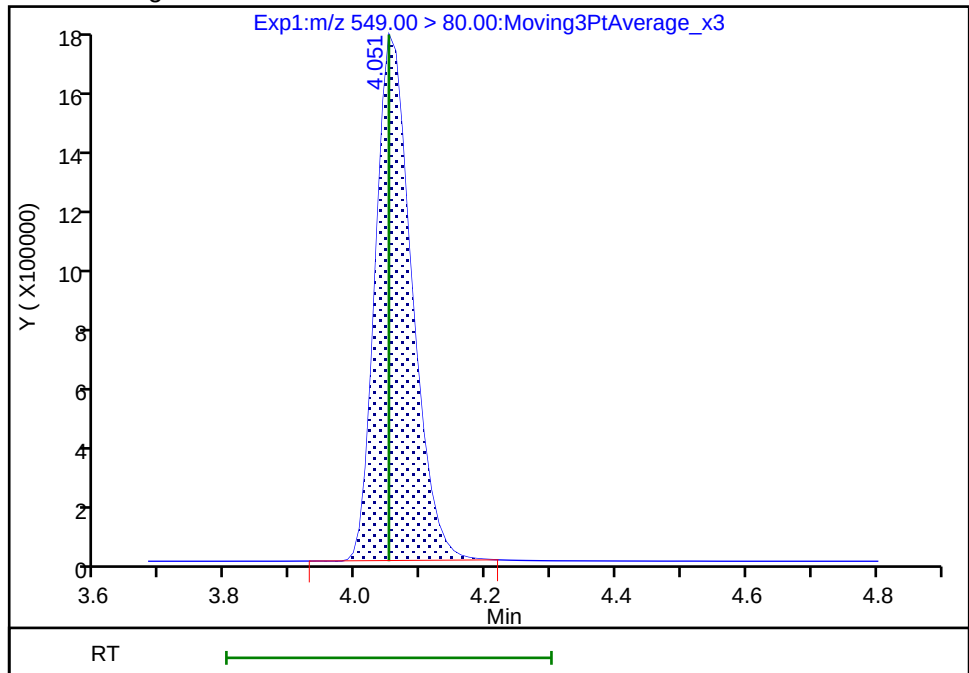
RT: 4.05
Area: 6901061
Amount: 9.026930
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 6831873
Amount: 8.950492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

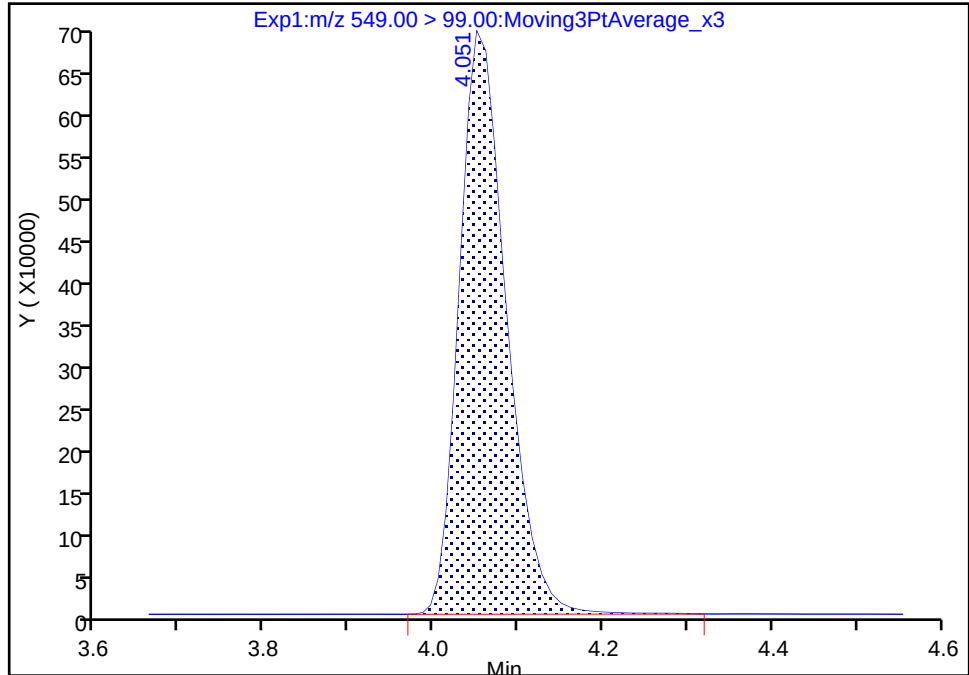
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

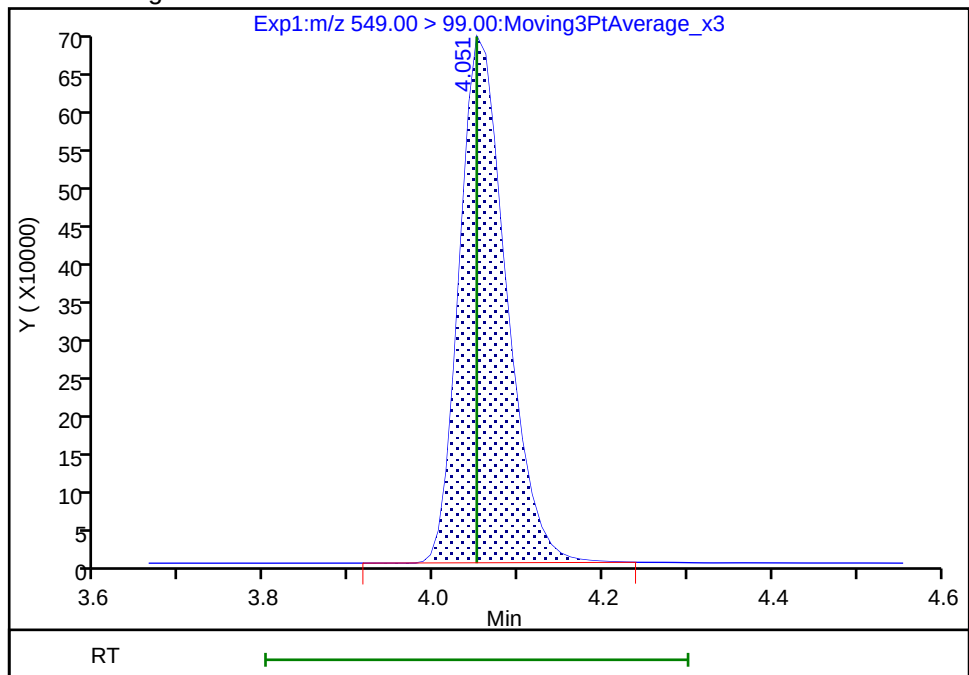
RT: 4.05
Area: 2665260
Amount: 9.026930
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 2652769
Amount: 8.950492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

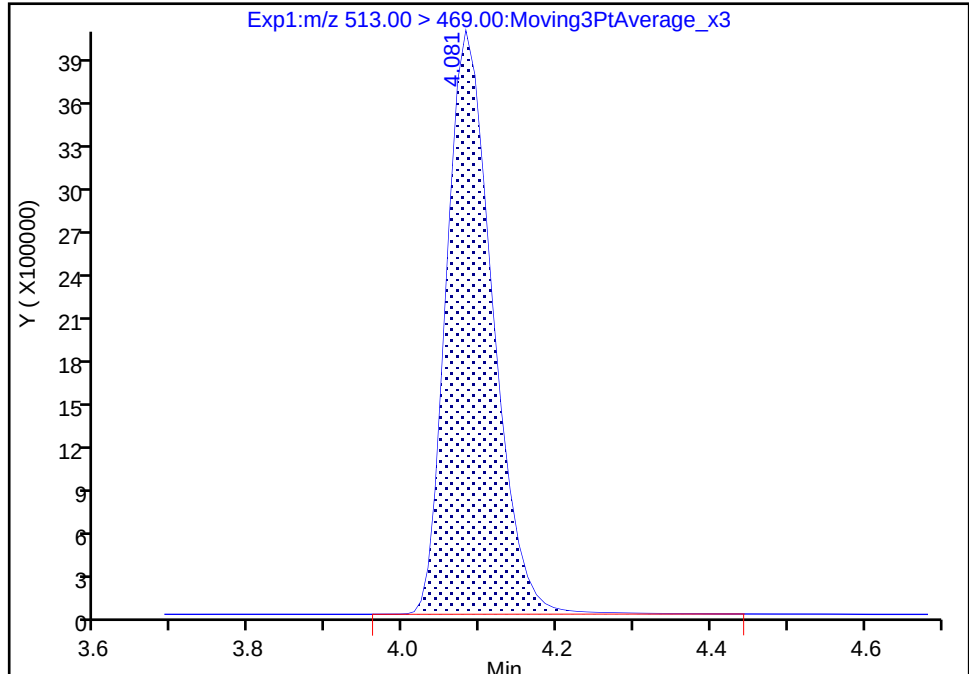
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

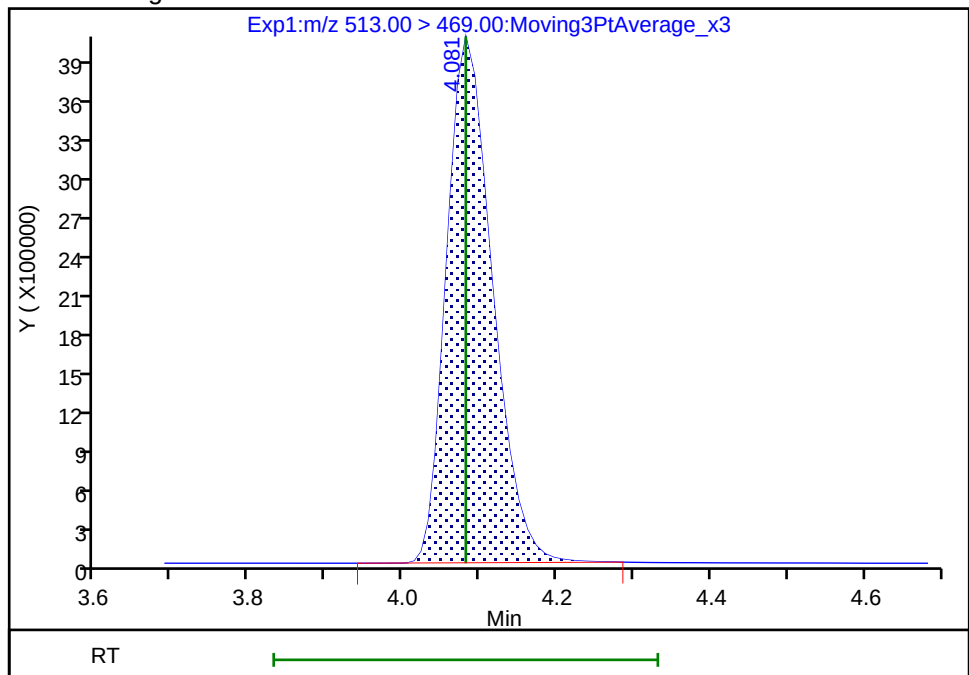
RT: 4.08
Area: 16777487
Amount: 8.666535
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 16688874
Amount: 8.627343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

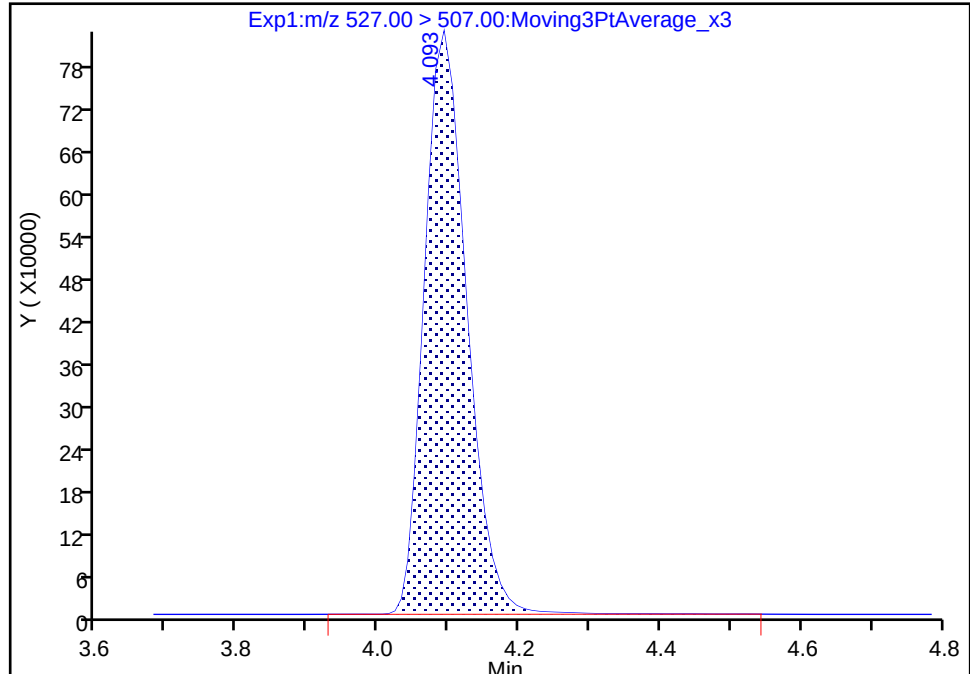
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

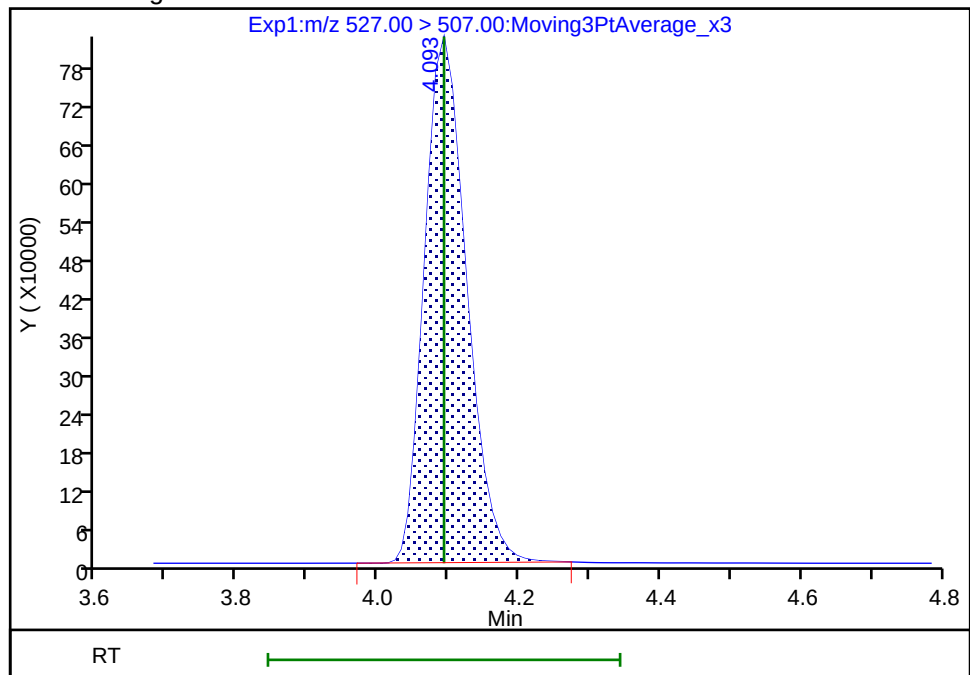
RT: 4.09
Area: 3456510
Amount: 9.221521
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 3431863
Amount: 9.166252
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

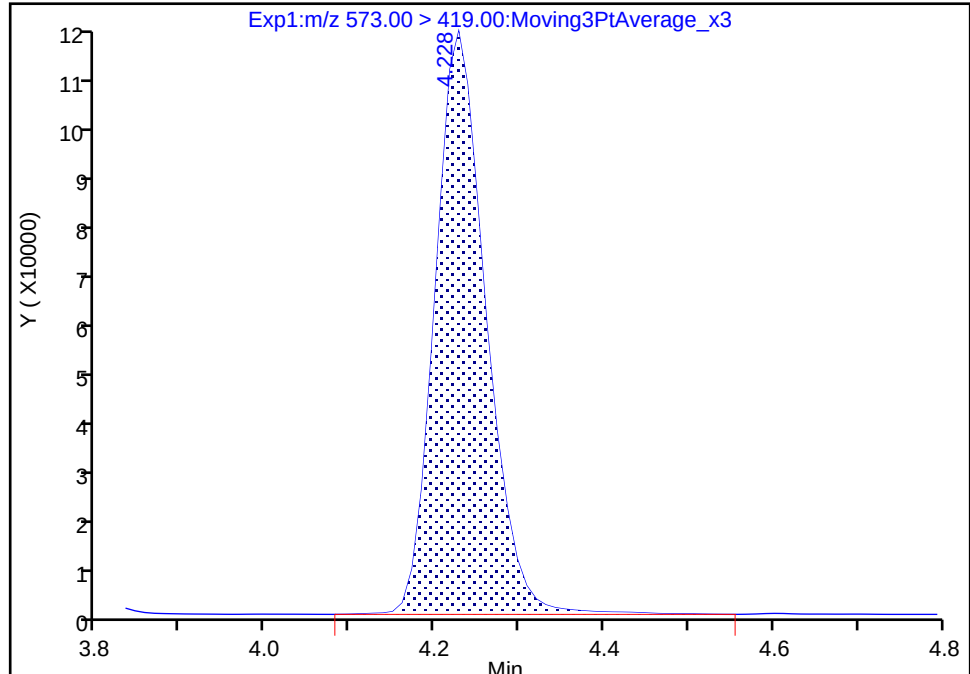
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

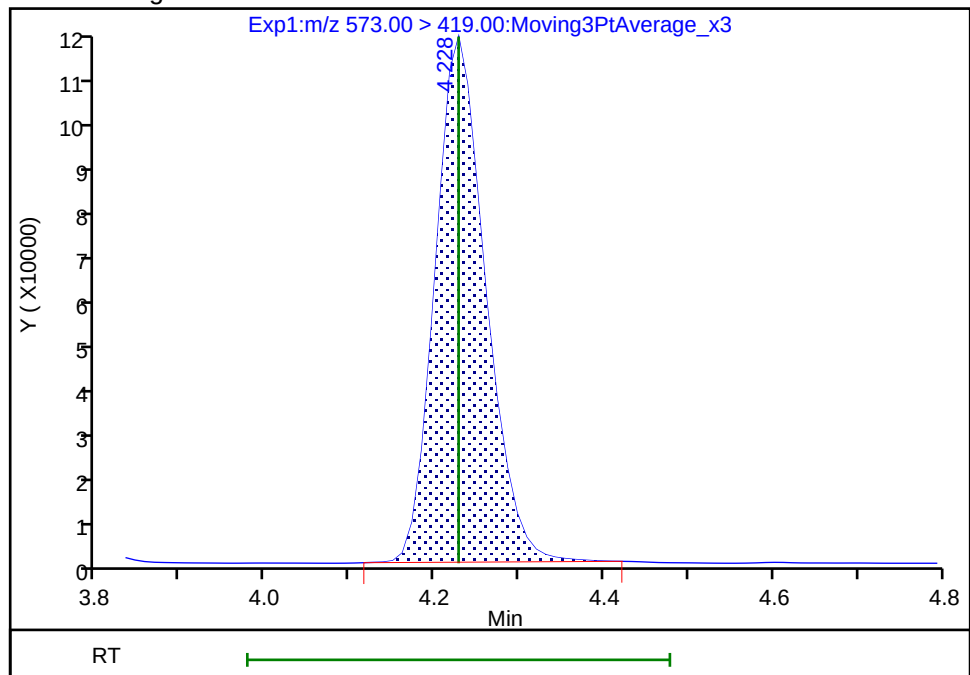
RT: 4.23
Area: 484787
Amount: 1.385223
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 478582
Amount: 1.370733
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d

Injection Date: 18-Nov-2022 15:10:45

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)

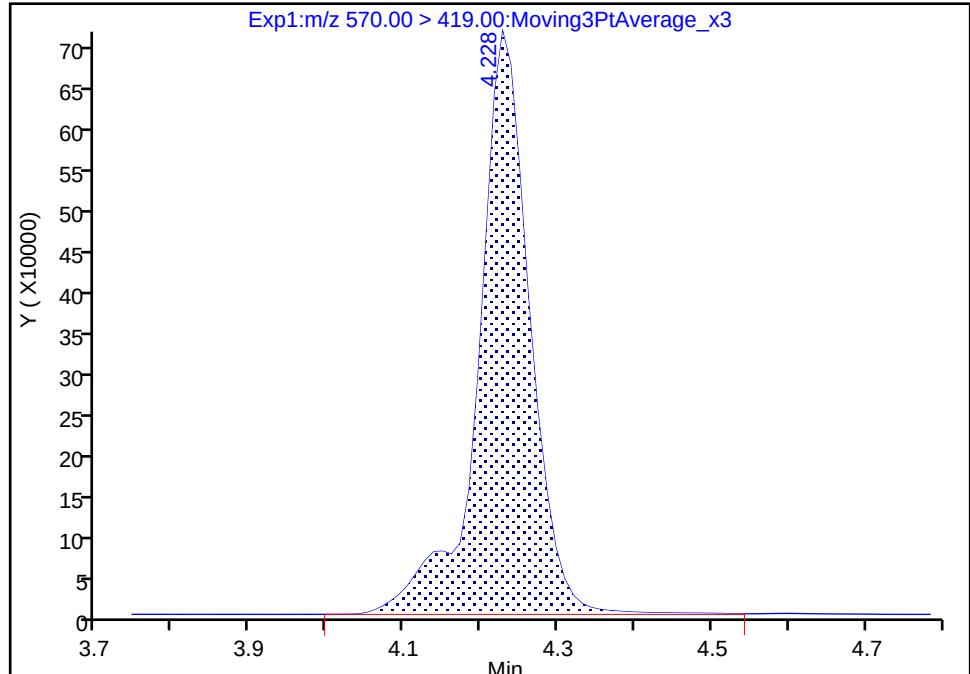
Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

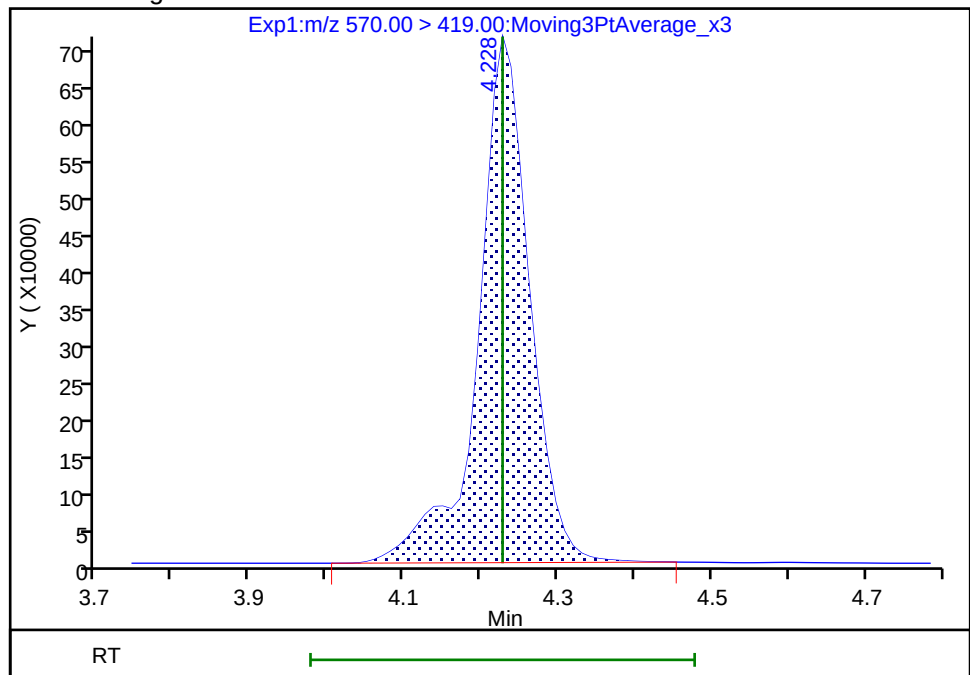
RT: 4.23
Area: 3324827
Amount: 9.466992
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 3297027
Amount: 9.998842
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

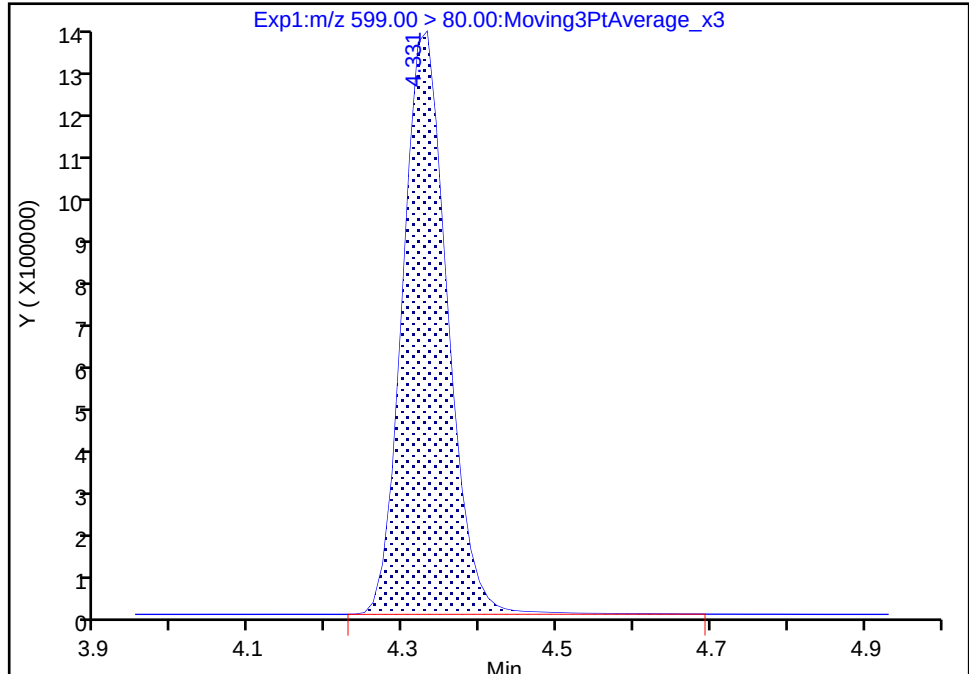
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

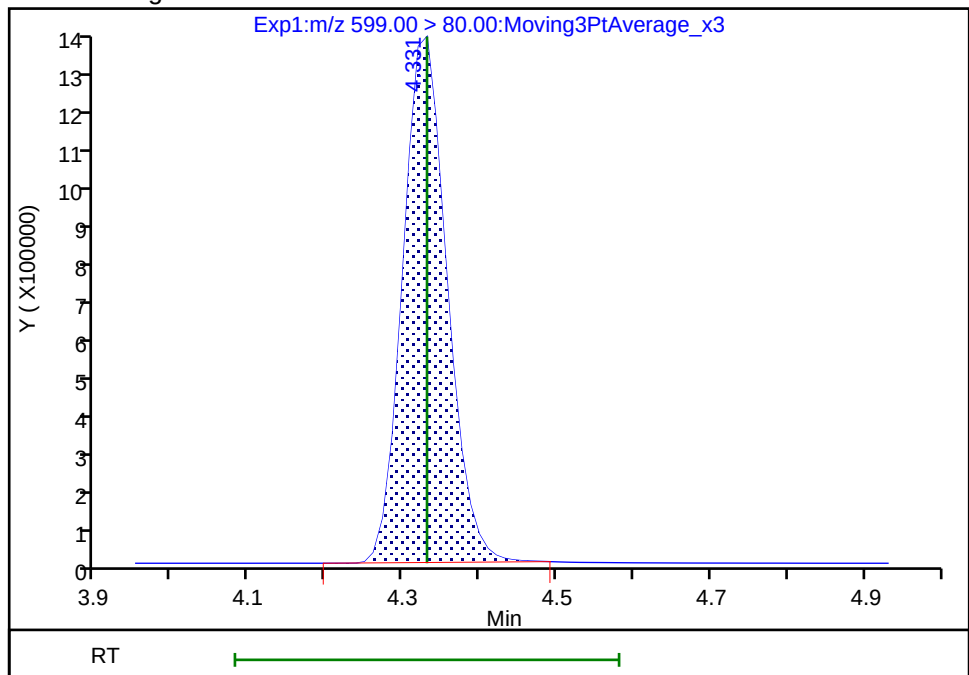
RT: 4.33
Area: 5598329
Amount: 9.275714
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 5548668
Amount: 9.206529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

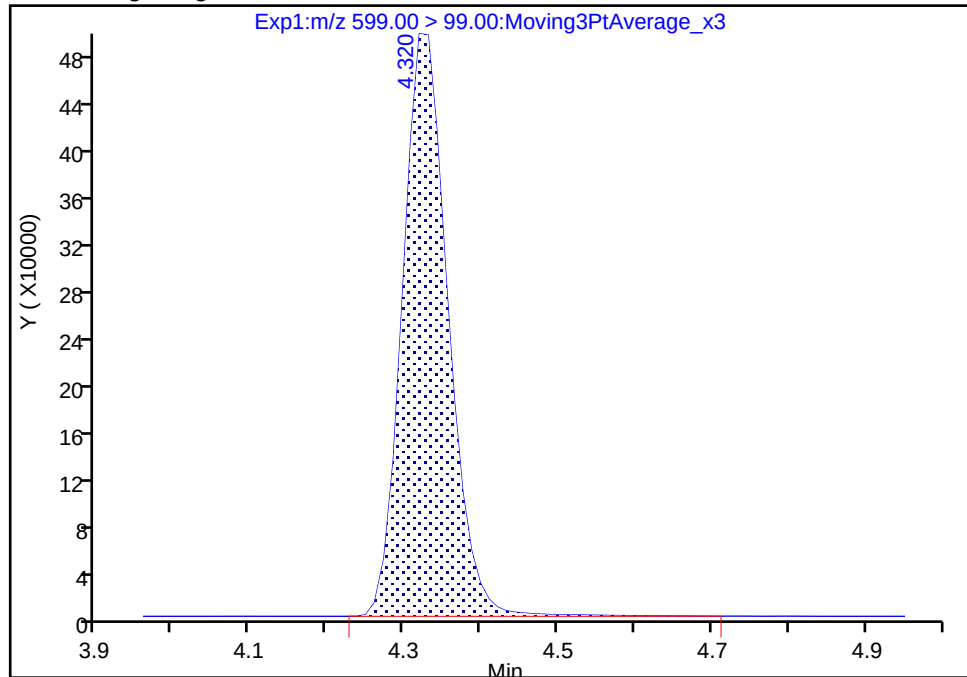
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

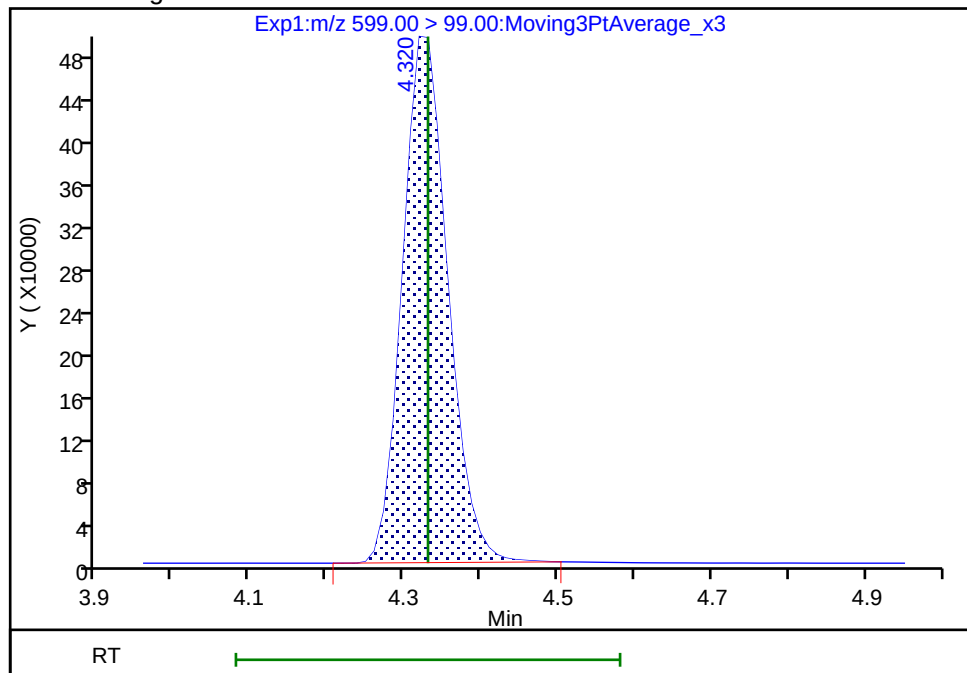
RT: 4.32
Area: 2054689
Amount: 9.275714
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 2036543
Amount: 9.206529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

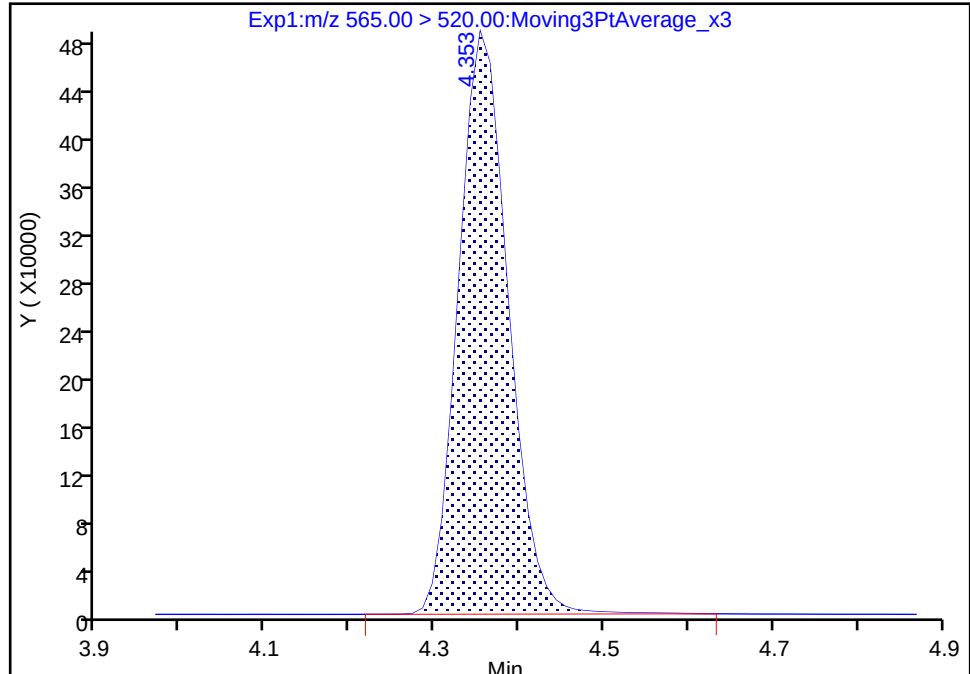
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

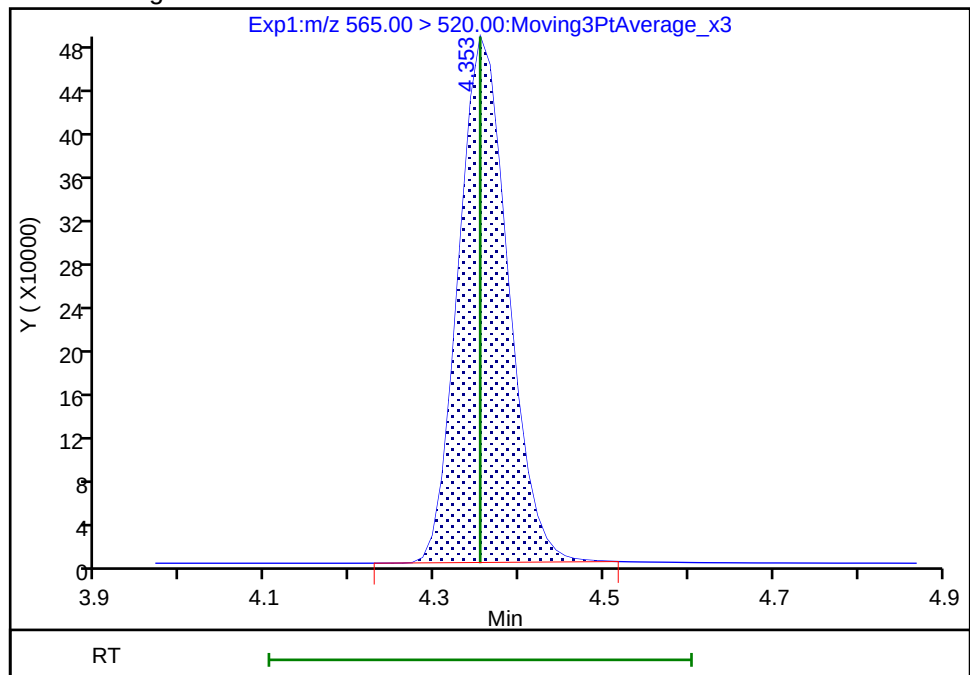
RT: 4.35
Area: 1981457
Amount: 1.260398
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1967361
Amount: 1.252929
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

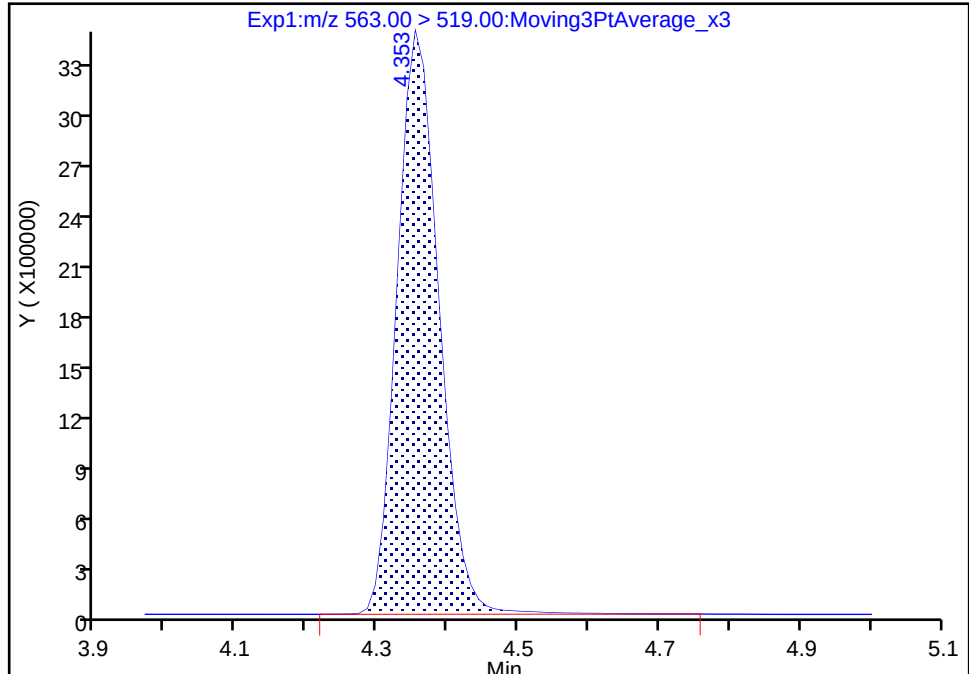
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

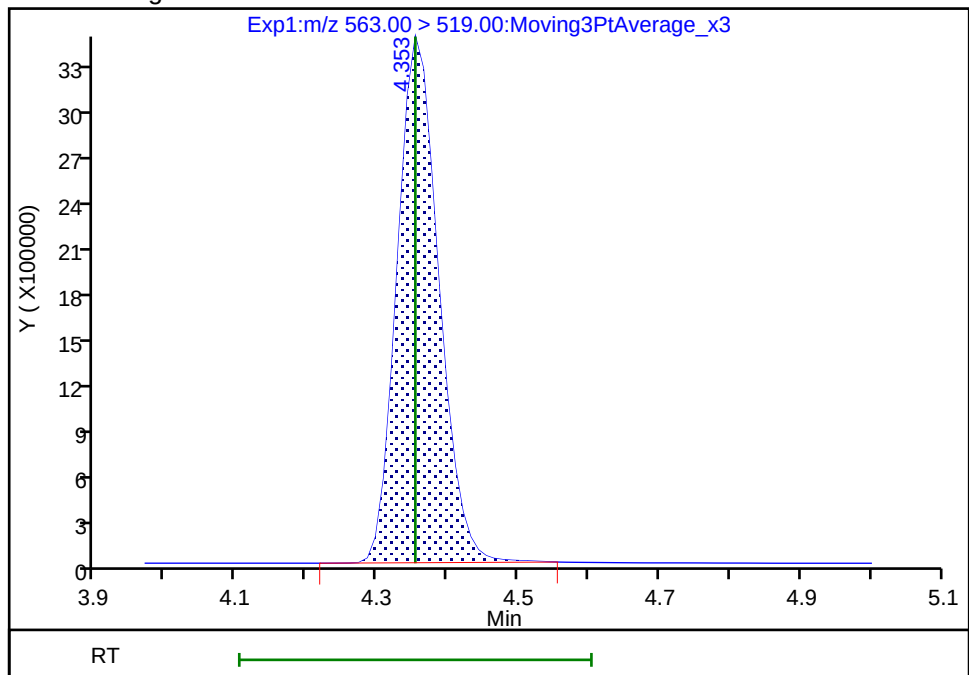
RT: 4.35
Area: 14261306
Amount: 8.982281
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 14168517
Amount: 8.932539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

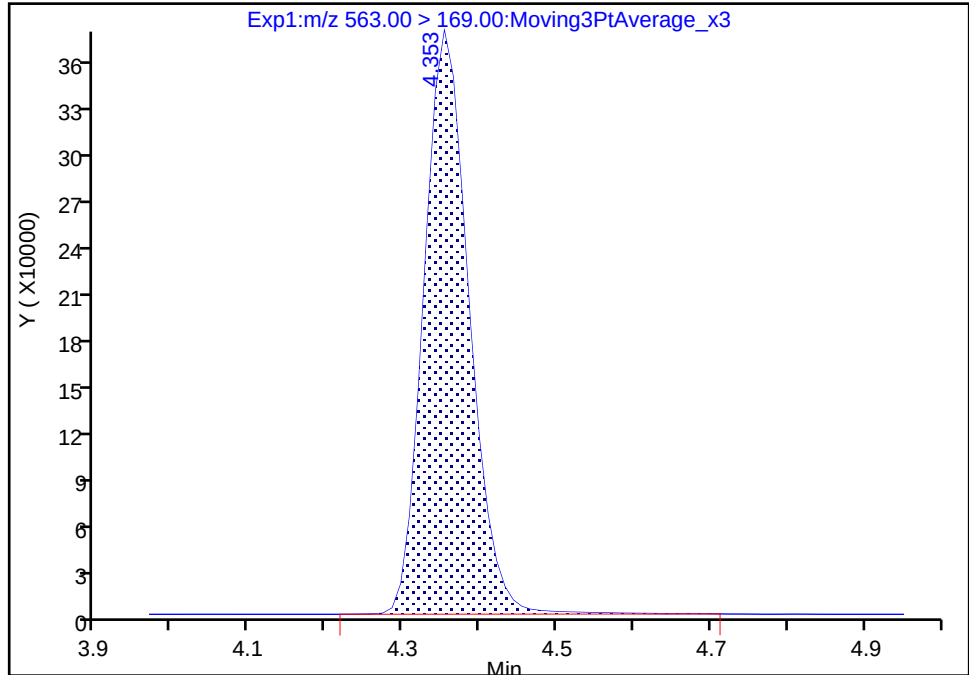
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

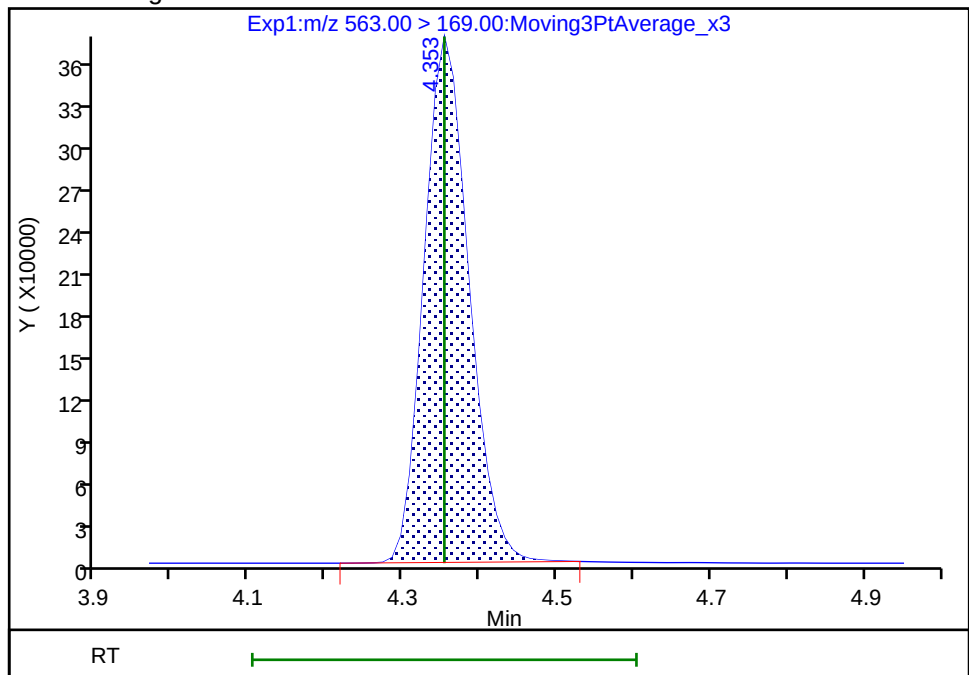
RT: 4.35
Area: 1516832
Amount: 8.982281
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1502685
Amount: 8.932539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

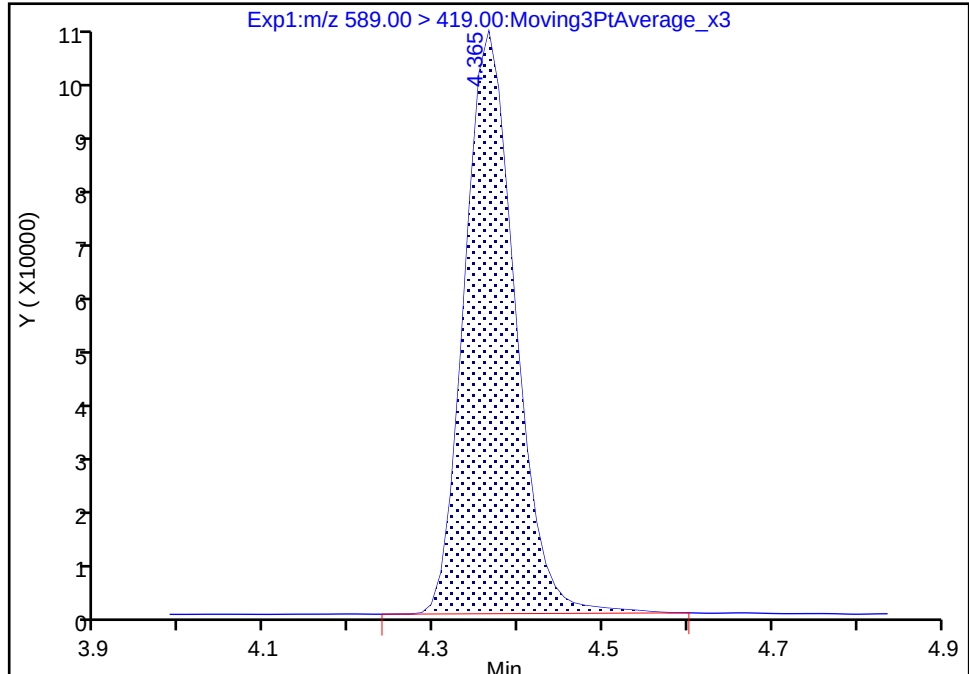
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

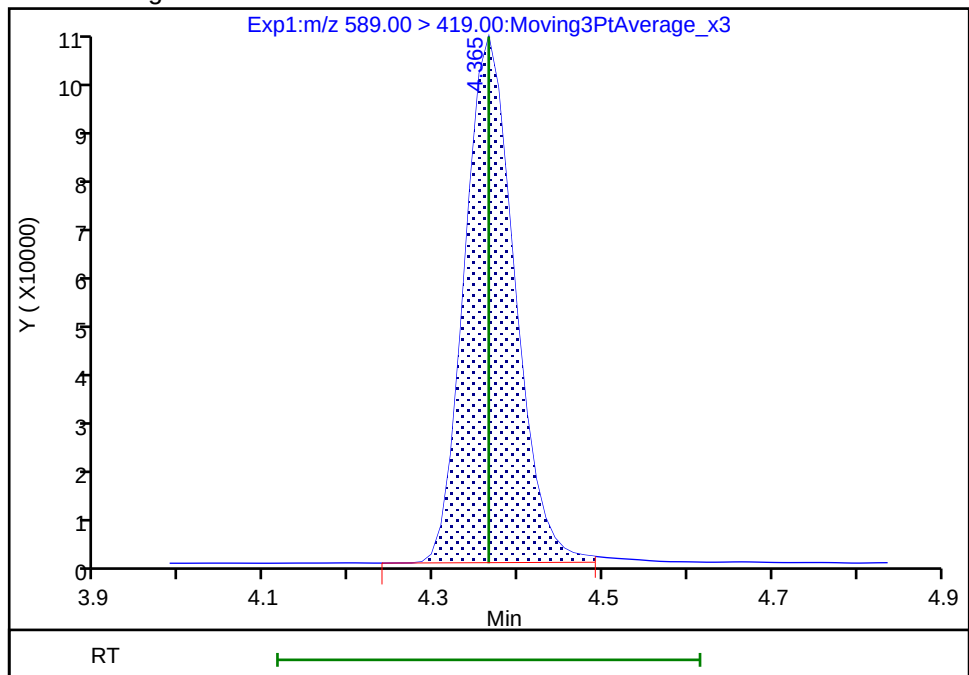
RT: 4.36
Area: 447944
Amount: 1.301468
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 444955
Amount: 1.294283
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

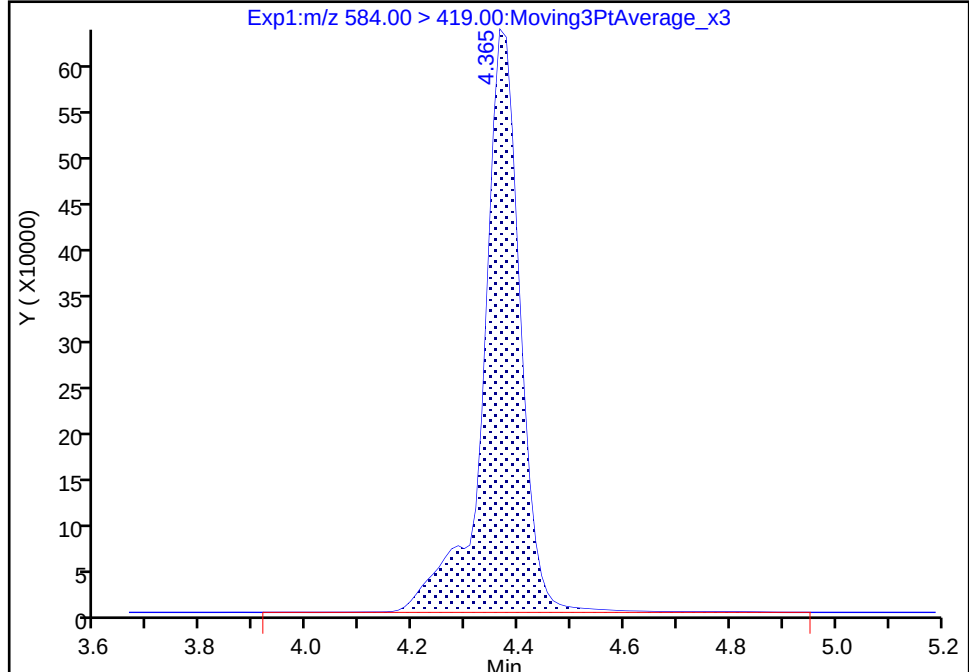
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

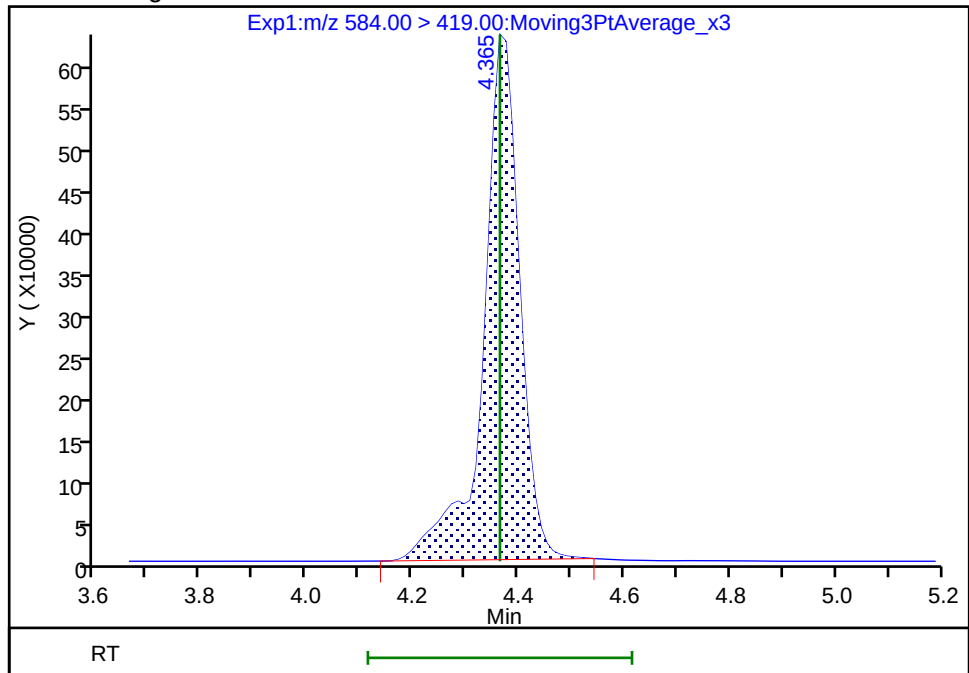
RT: 4.36
Area: 3053897
Amount: 9.498844
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 2992748
Amount: 9.391160
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

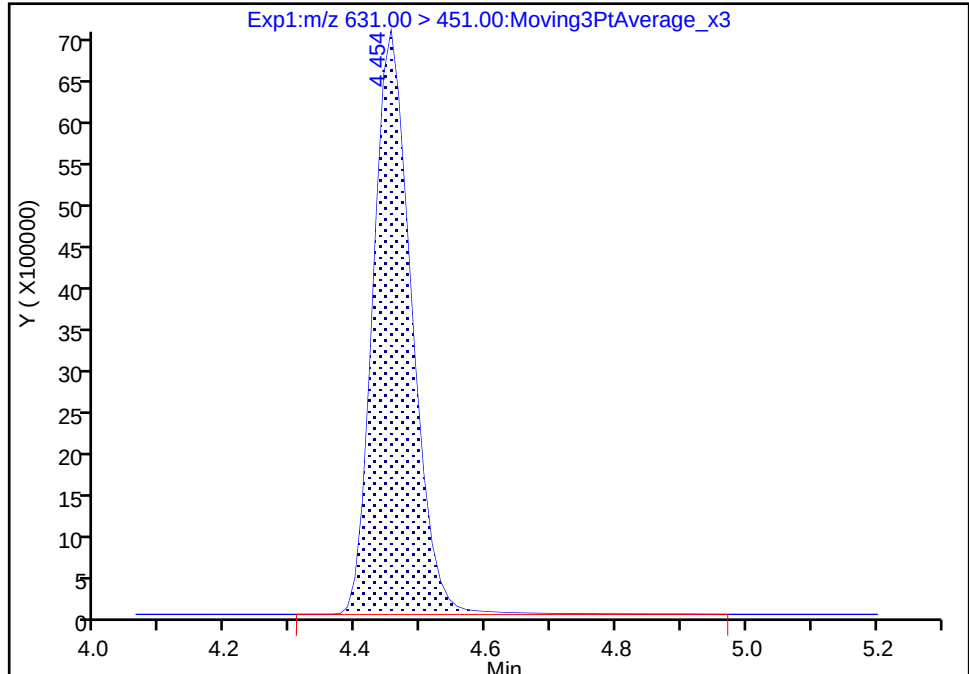
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

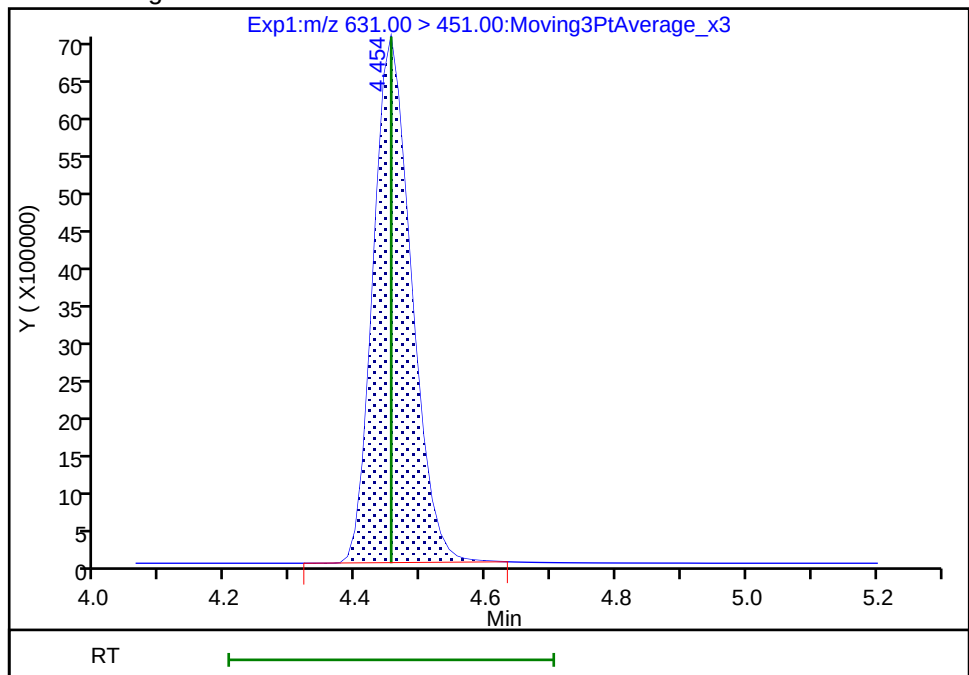
RT: 4.45
Area: 28876632
Amount: 8.059383
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 28587798
Amount: 7.990166
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

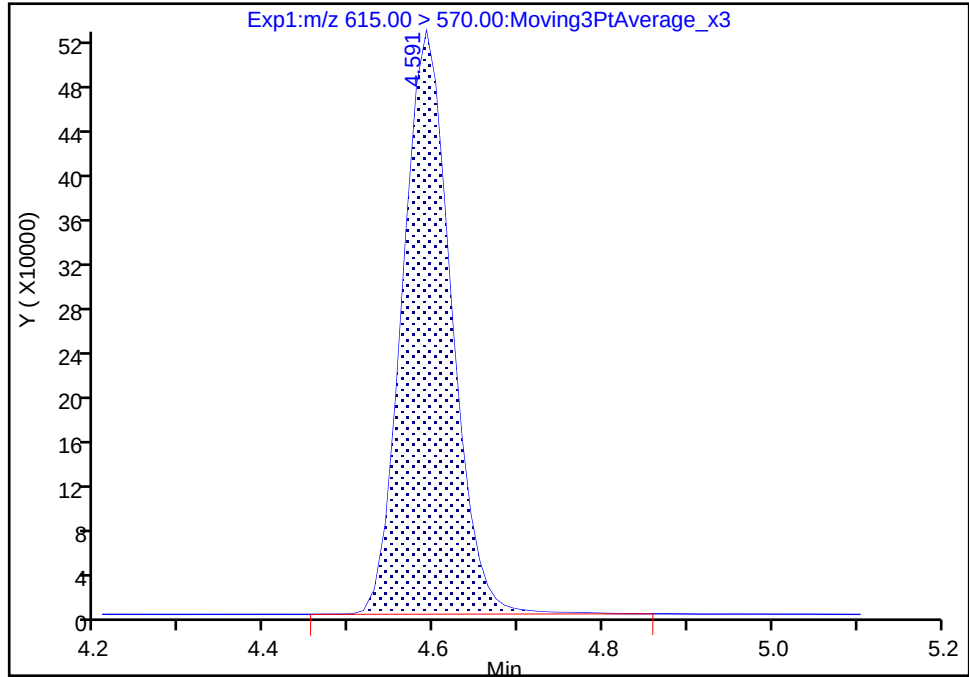
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

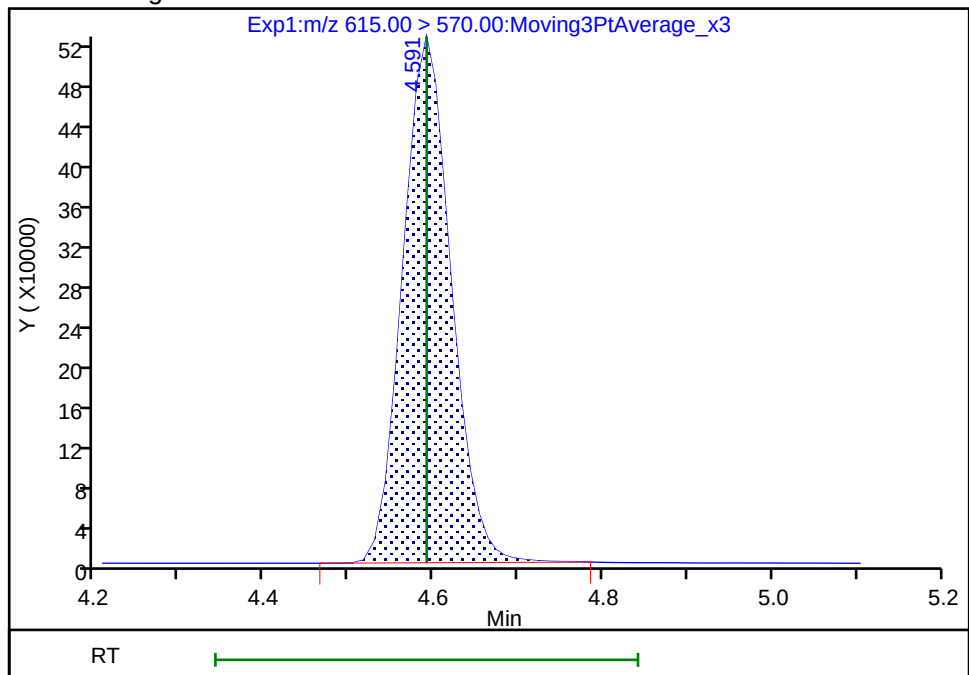
RT: 4.59
Area: 2112236
Amount: 1.319398
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2103698
Amount: 1.315000
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

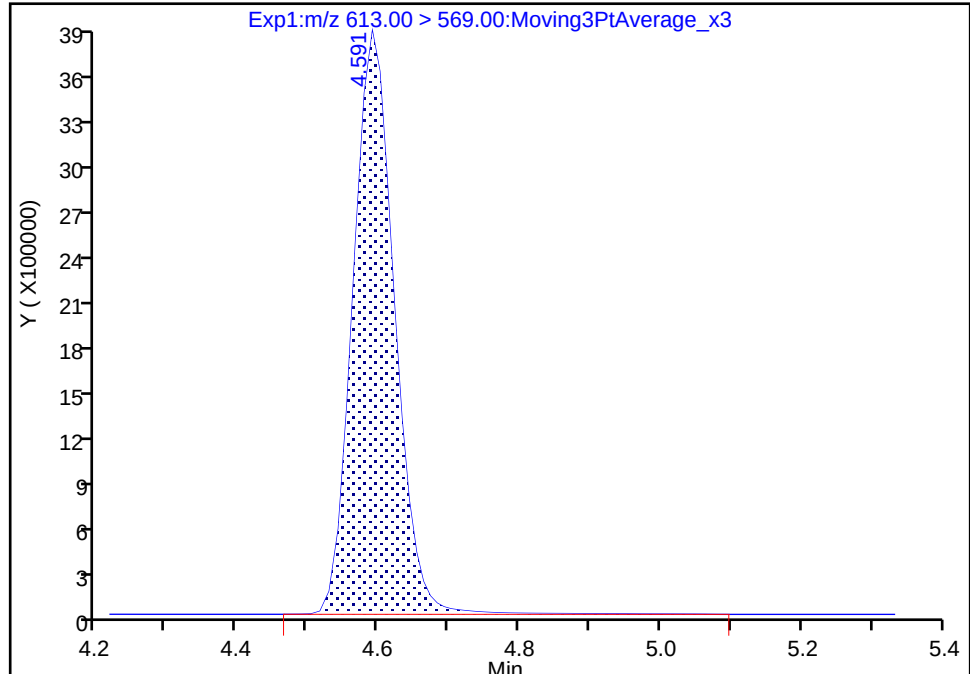
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

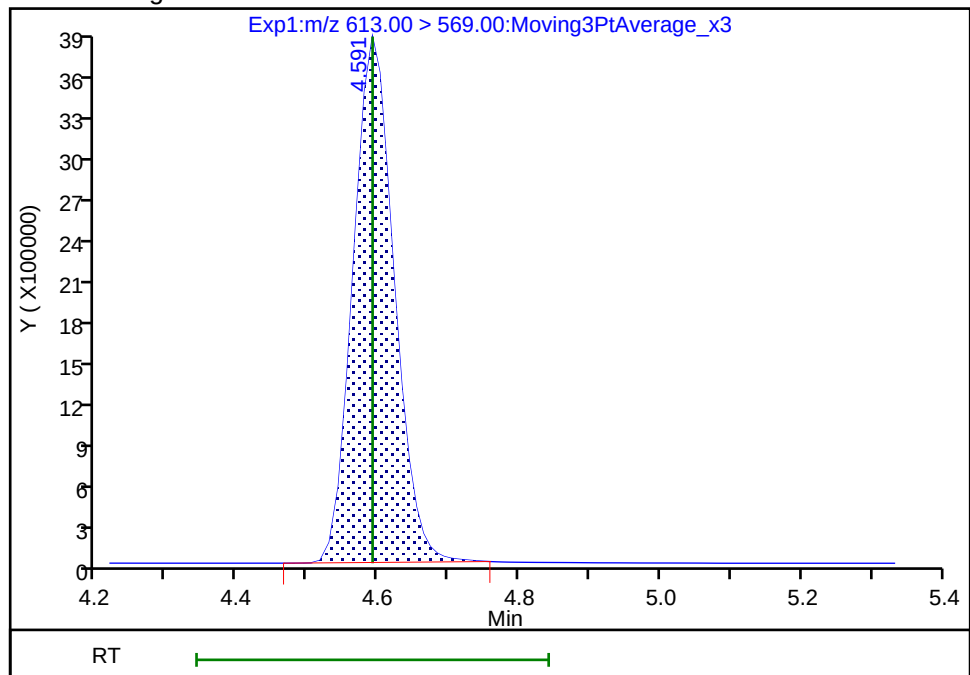
RT: 4.59
Area: 15795102
Amount: 8.813020
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 15612916
Amount: 8.756399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

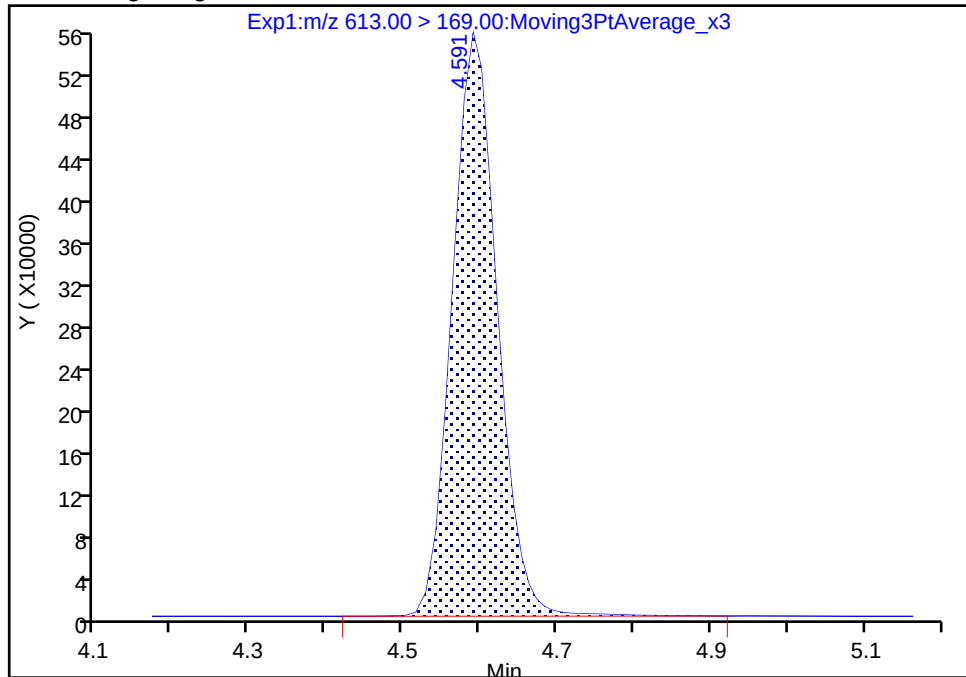
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

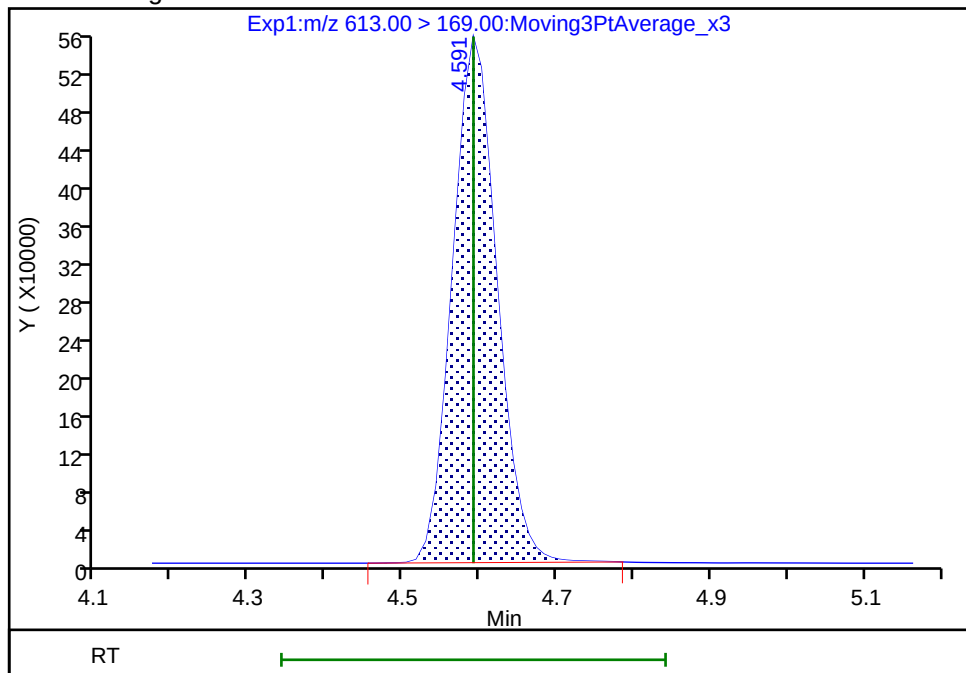
RT: 4.59
Area: 2239668
Amount: 8.813020
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2225311
Amount: 8.756399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

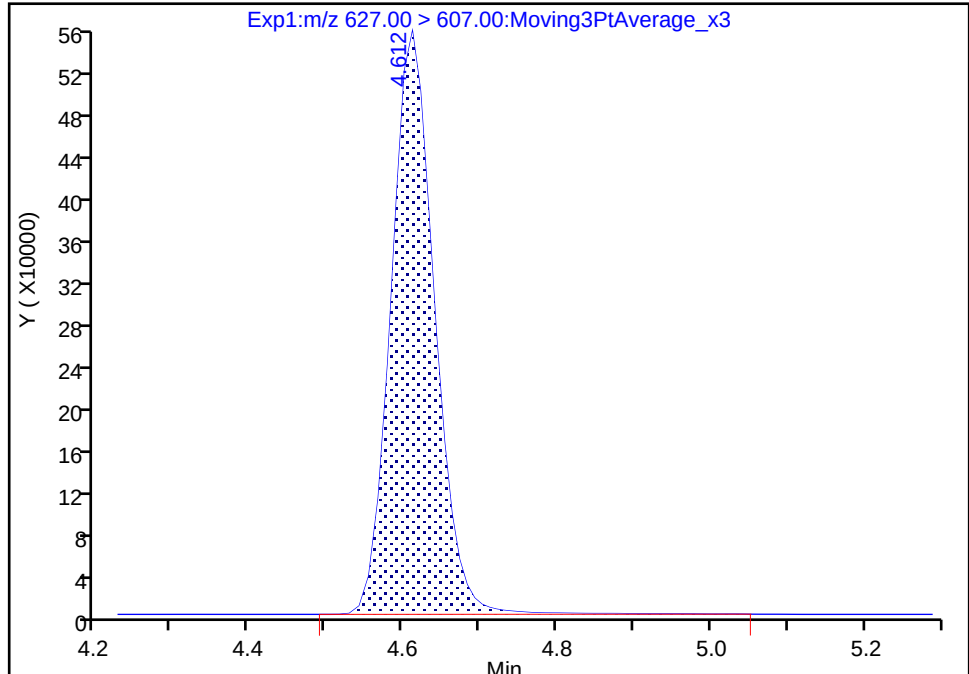
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

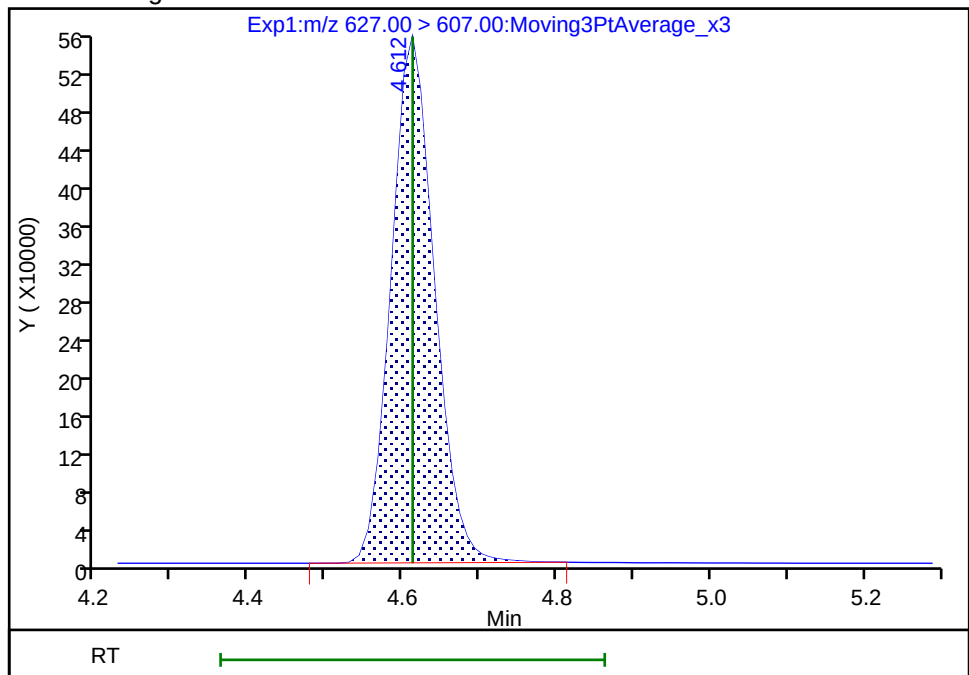
RT: 4.61
Area: 2155044
Amount: 9.567795
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 2140218
Amount: 9.512798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

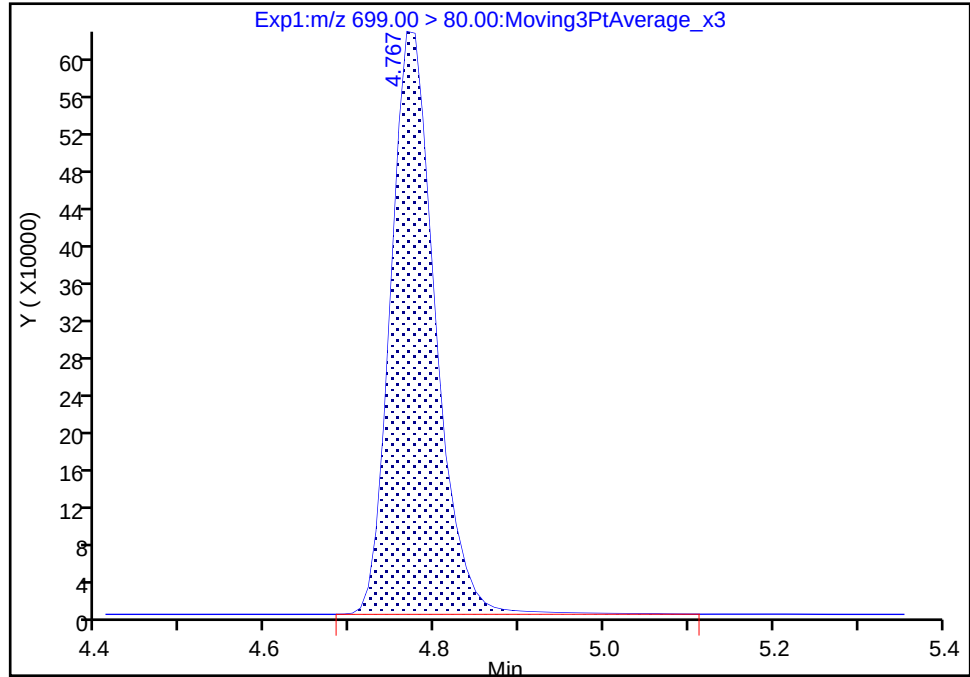
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

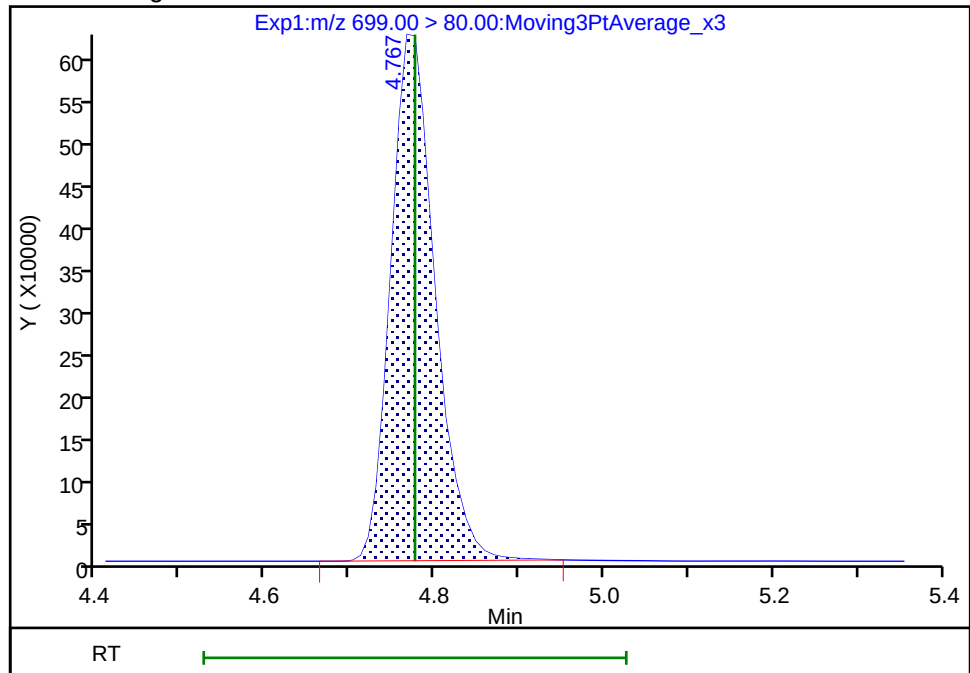
RT: 4.77
Area: 2276652
Amount: 8.916859
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 2258006
Amount: 8.854963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

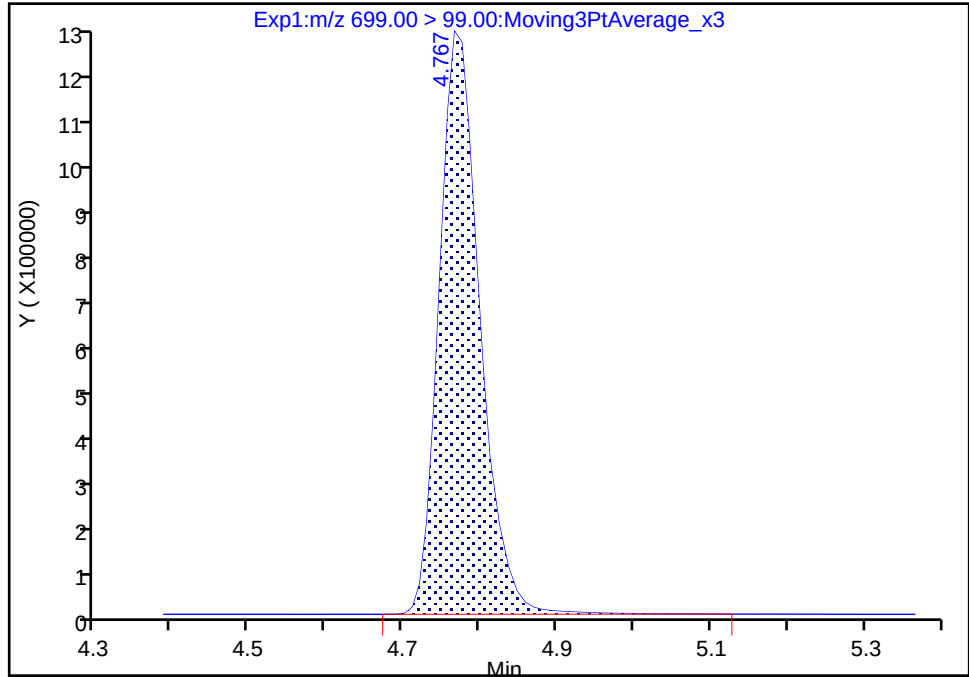
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

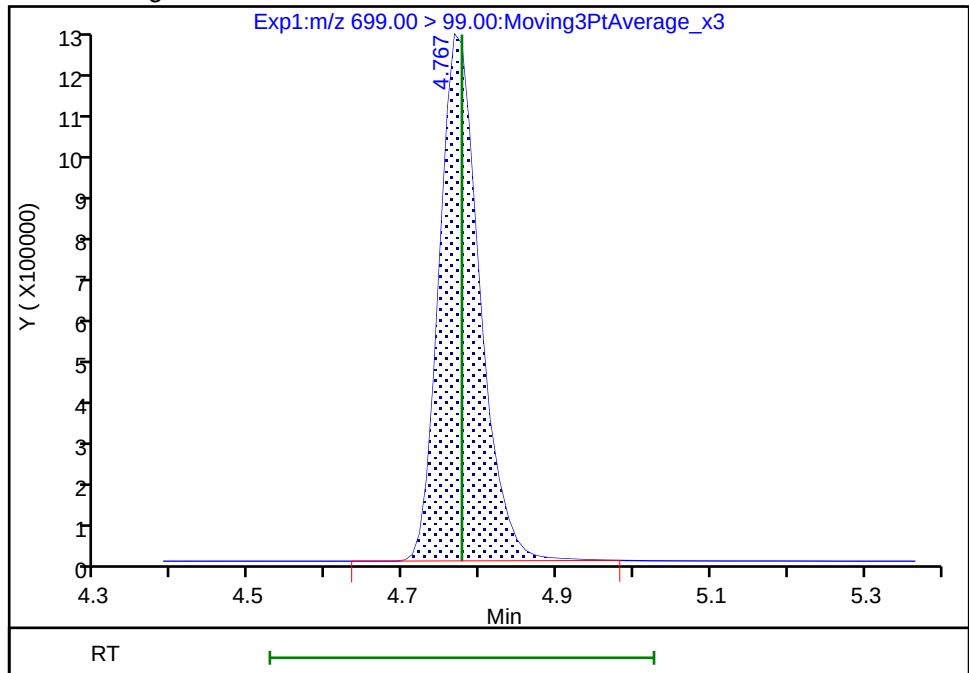
RT: 4.77
Area: 4551960
Amount: 8.916859
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 4532176
Amount: 8.854963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

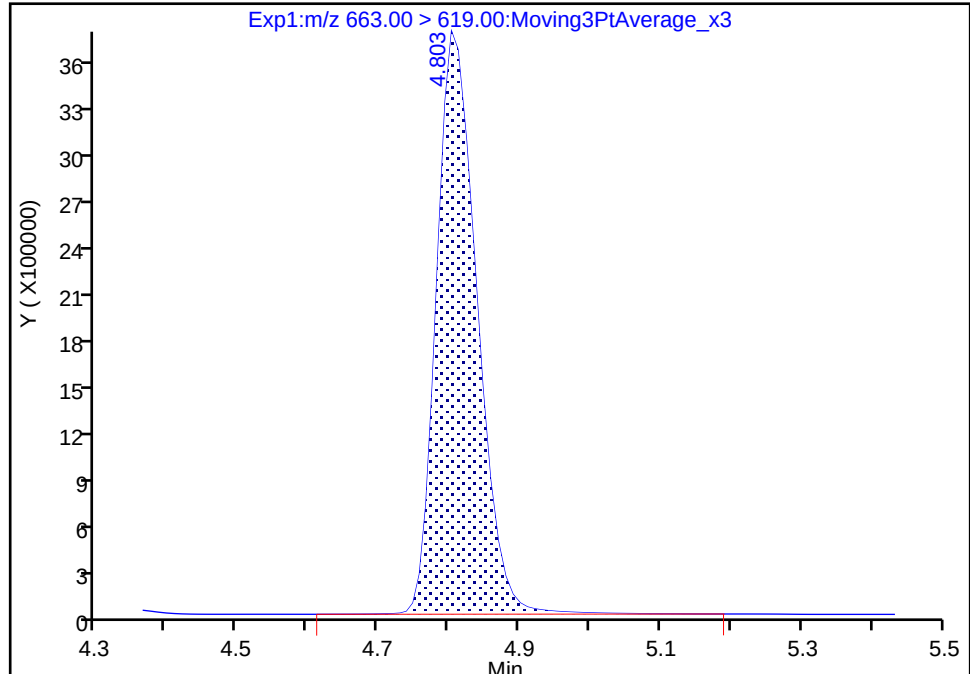
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

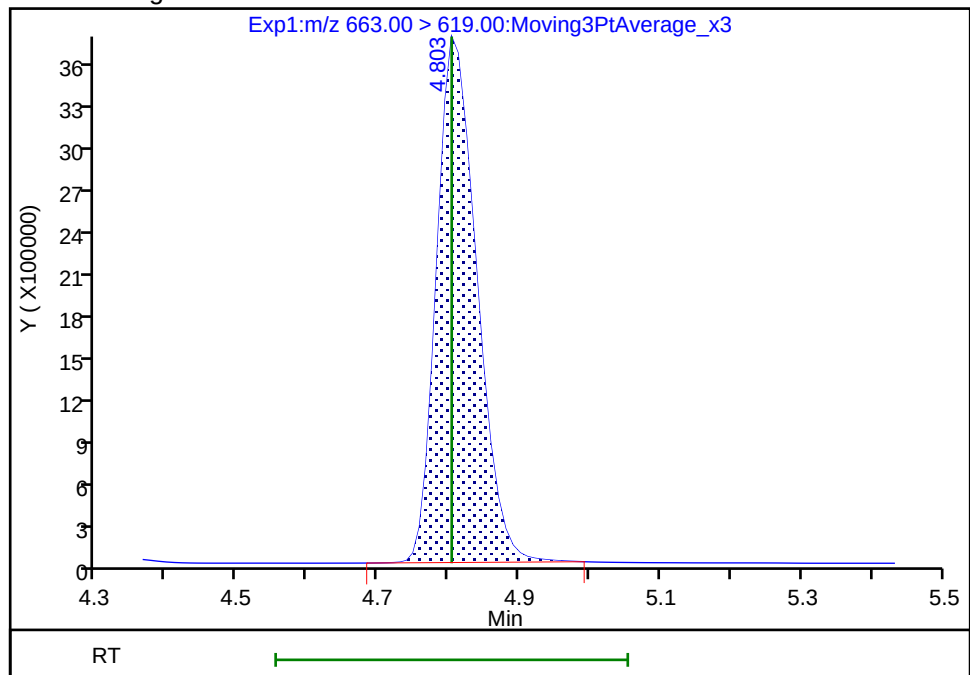
RT: 4.80
Area: 14874509
Amount: 8.712617
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 14753486
Amount: 8.651951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

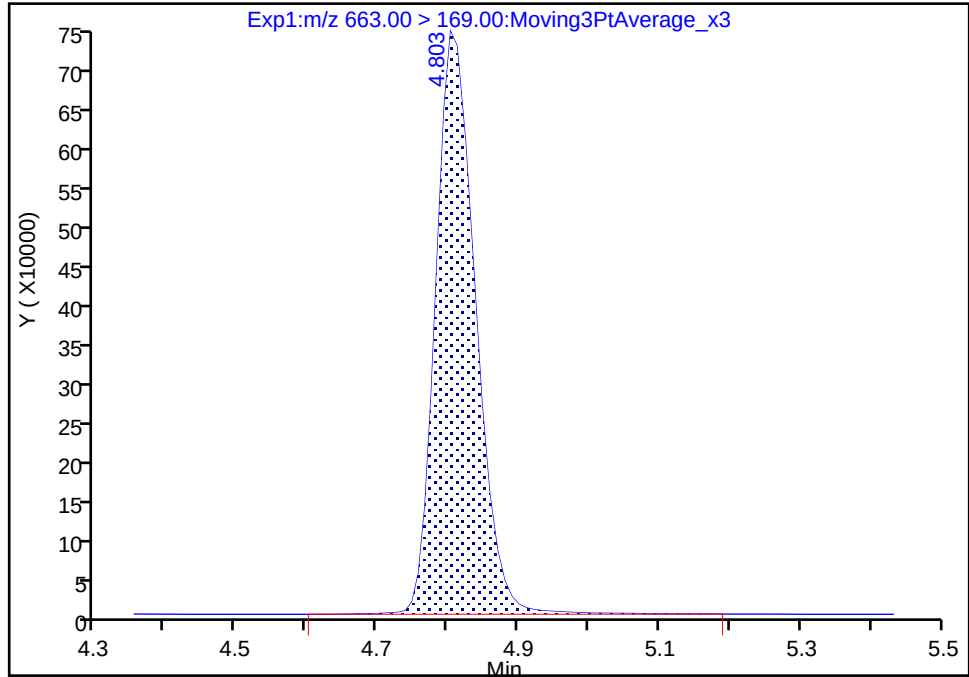
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

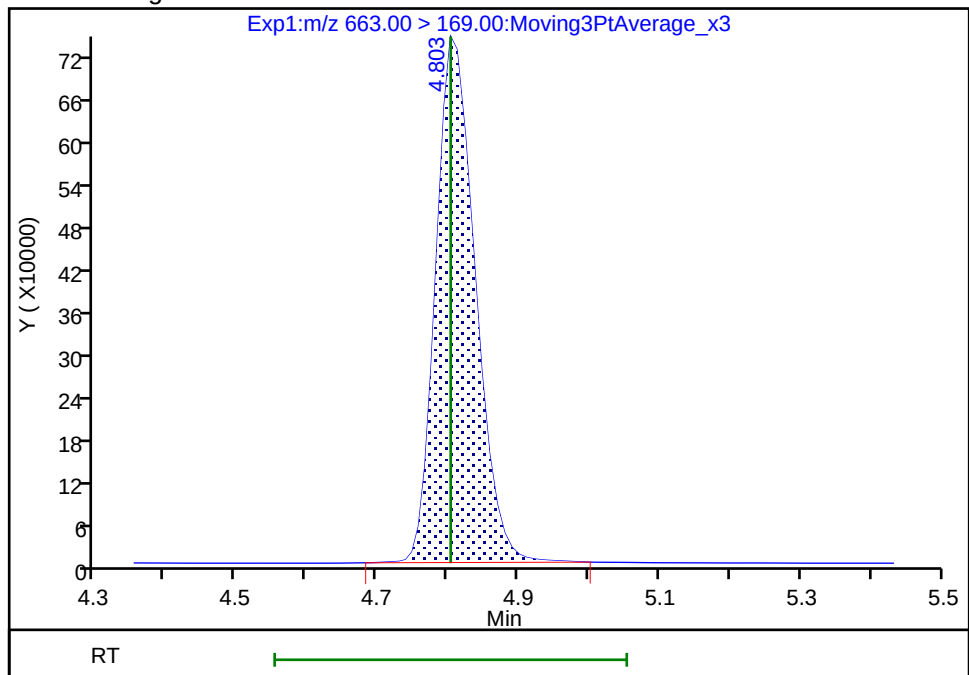
RT: 4.80
Area: 2899959
Amount: 8.712617
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 2874269
Amount: 8.651951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

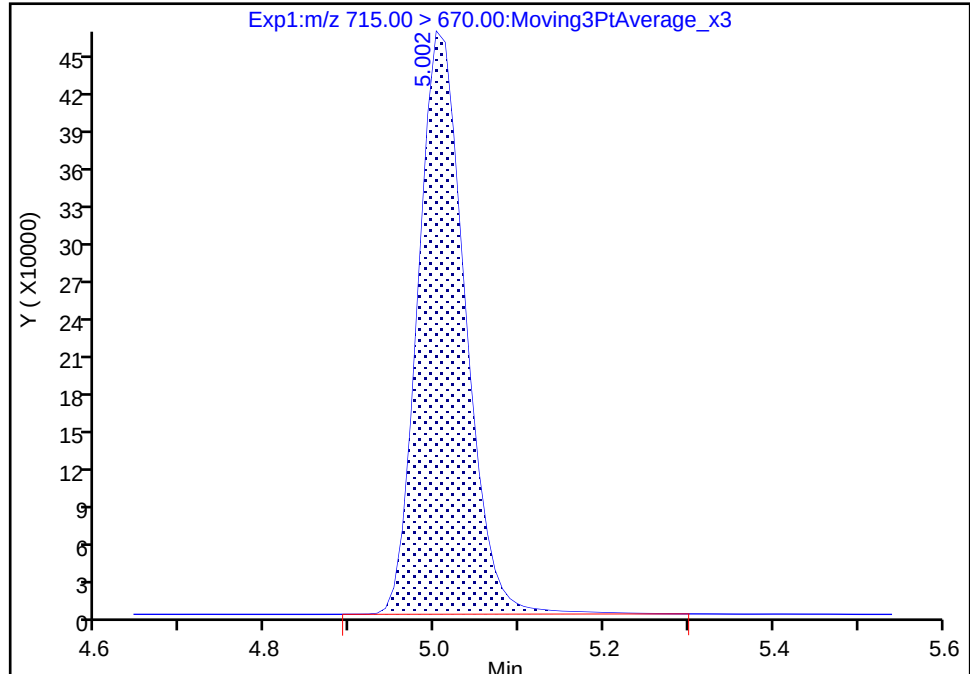
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

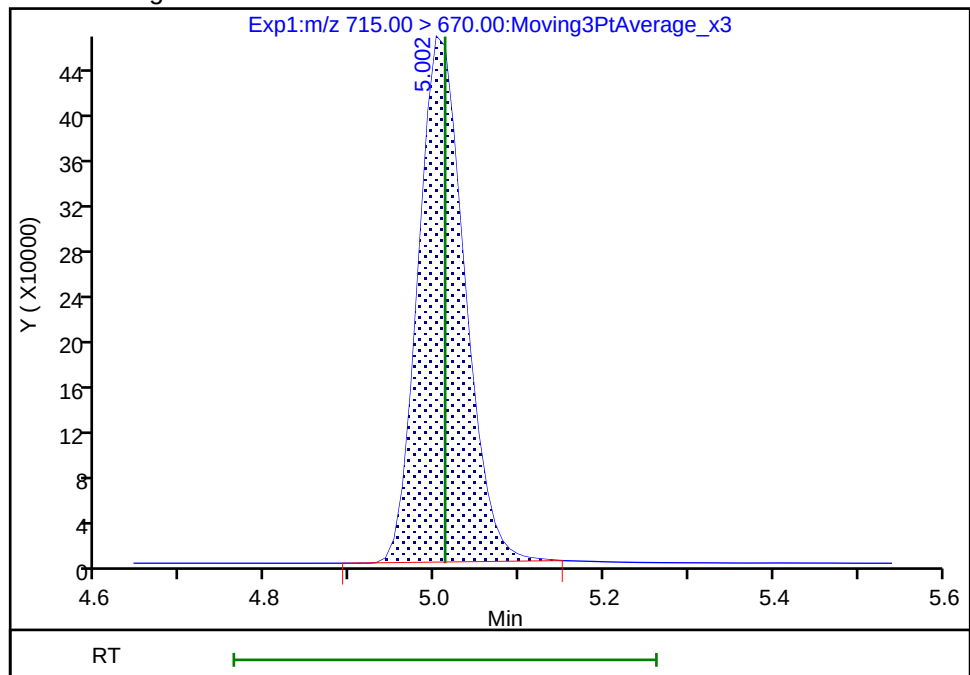
RT: 5.00
Area: 1805771
Amount: 1.302148
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1782548
Amount: 1.288279
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

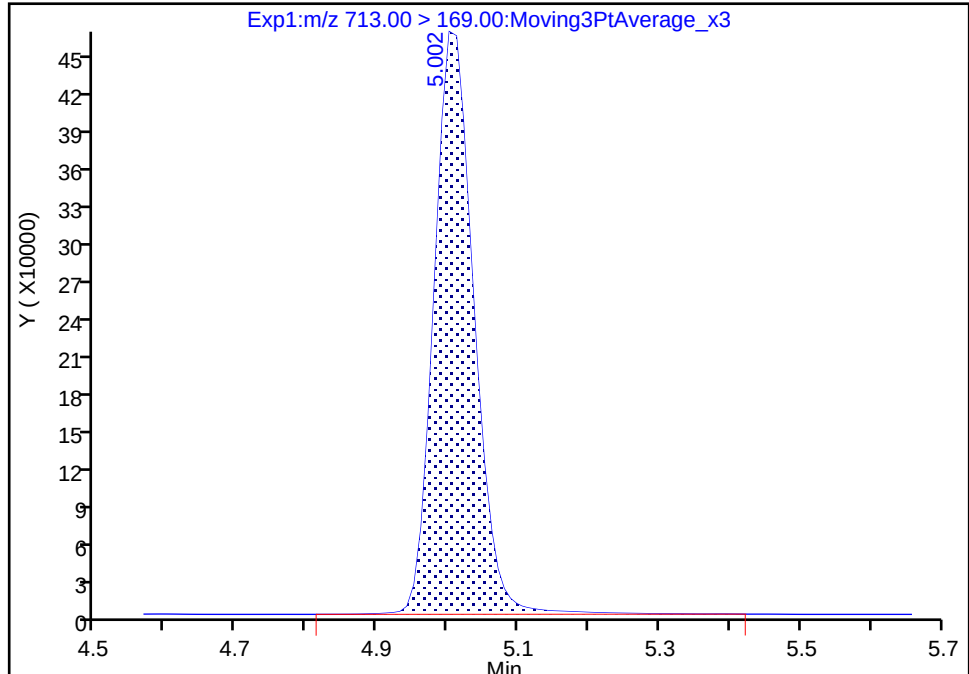
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

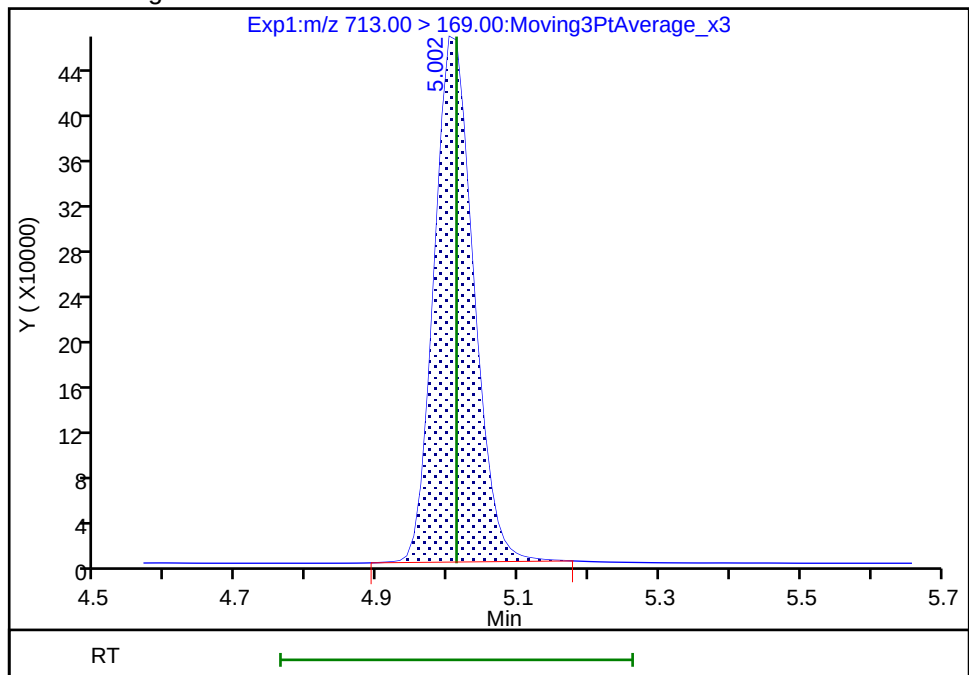
RT: 5.00
Area: 1841113
Amount: 9.306273
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1813608
Amount: 9.289708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

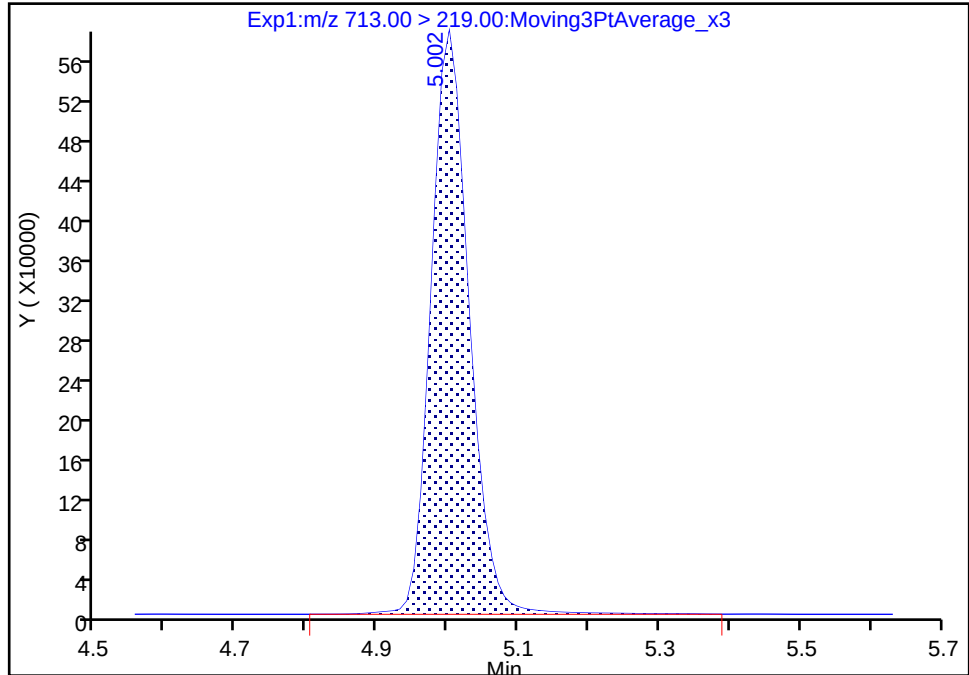
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

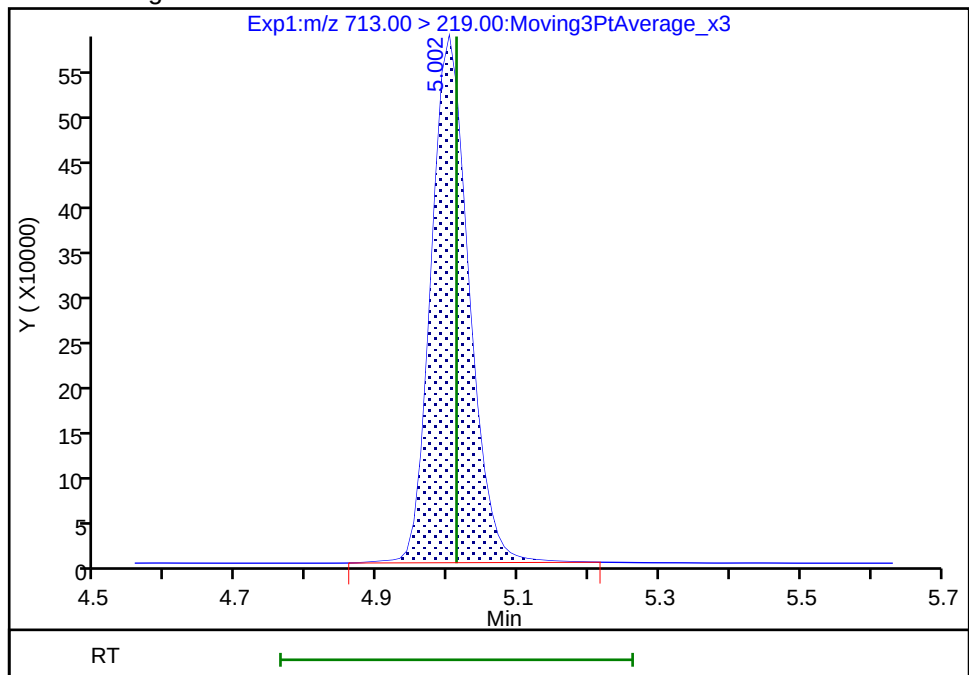
RT: 5.00
Area: 2174723
Amount: 9.306273
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 2156307
Amount: 9.289708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

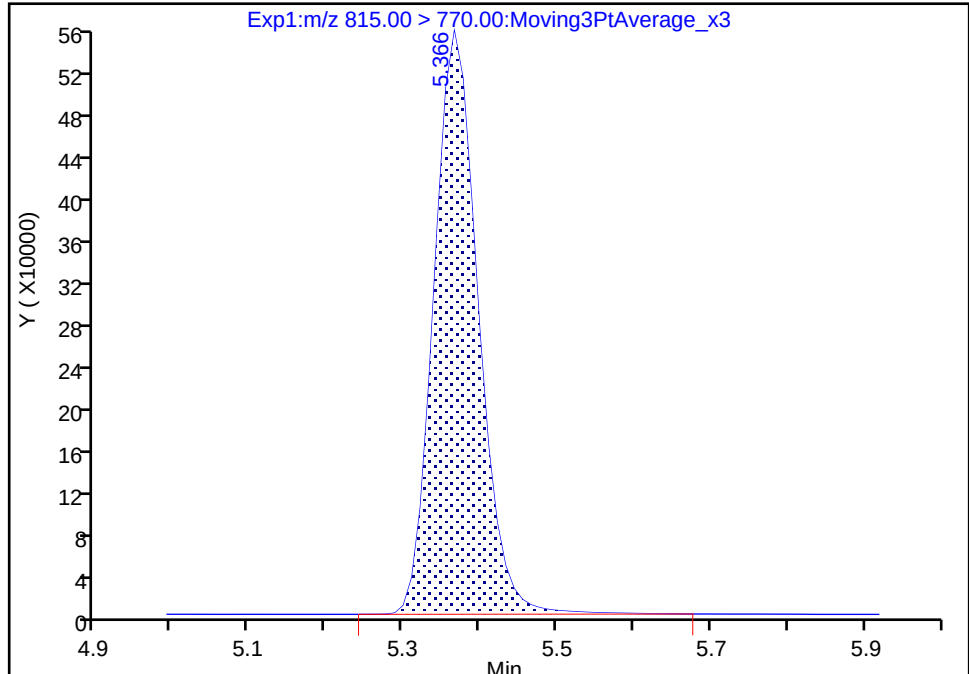
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

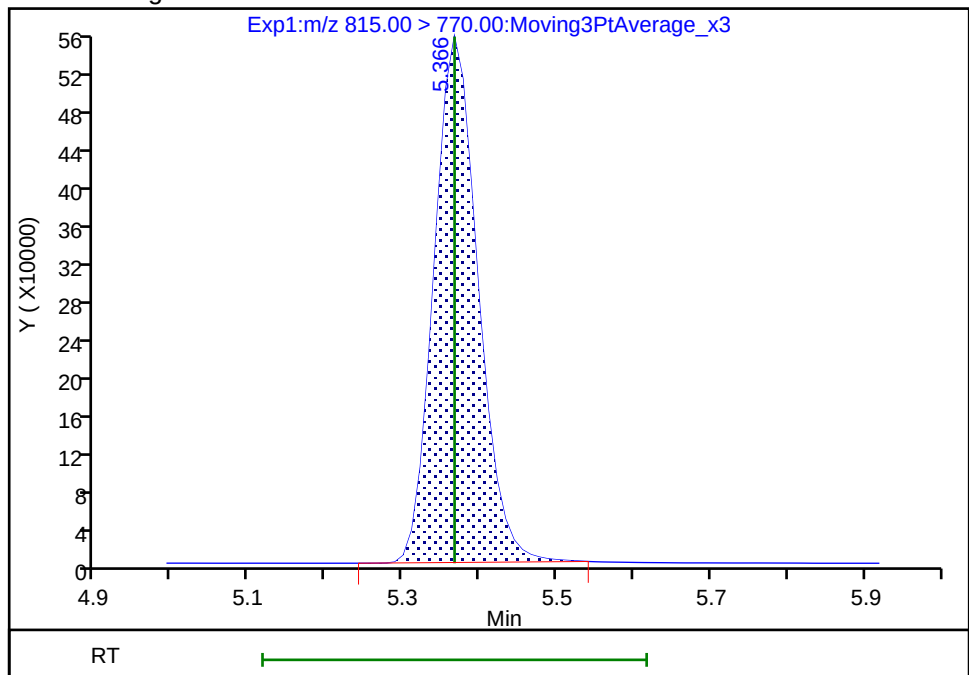
RT: 5.37
Area: 2211108
Amount: 1.290675
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2191999
Amount: 1.281426
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

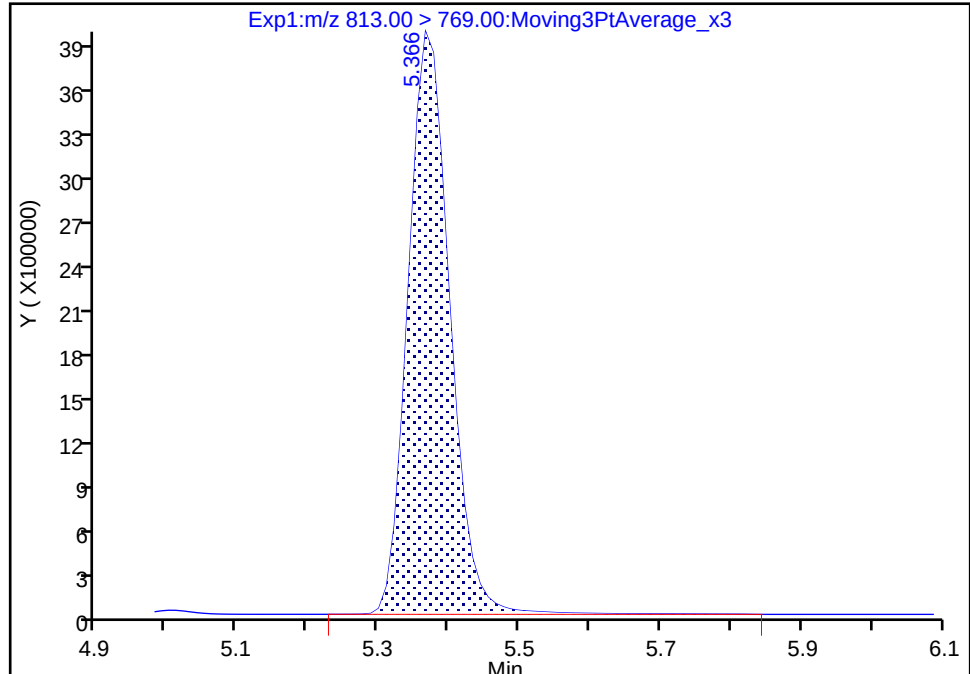
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

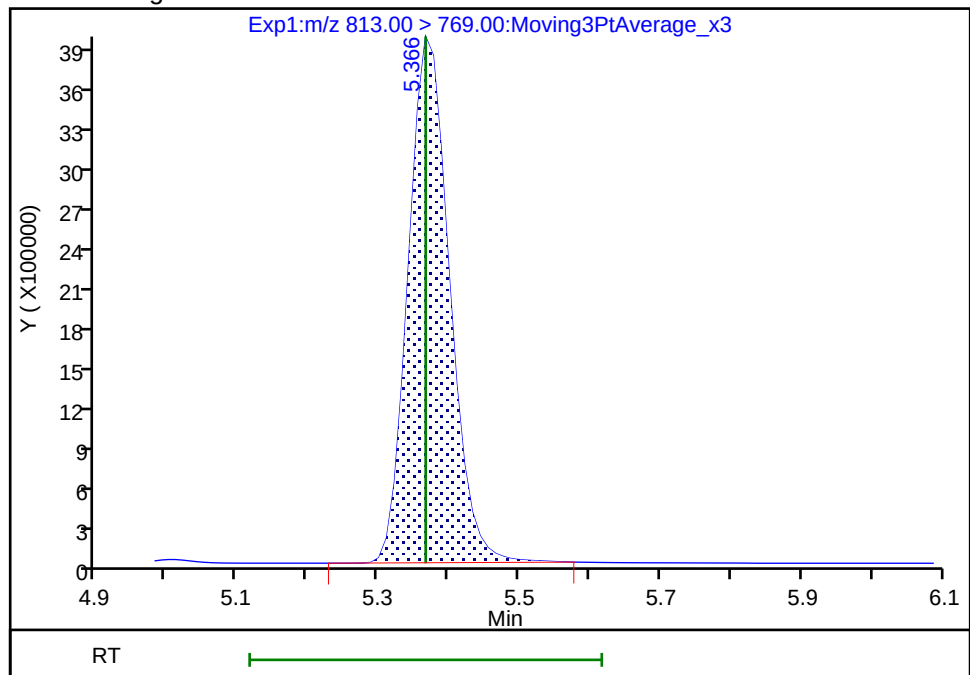
RT: 5.37
Area: 16305862
Amount: 10.008046
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 16164958
Amount: 10.008049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

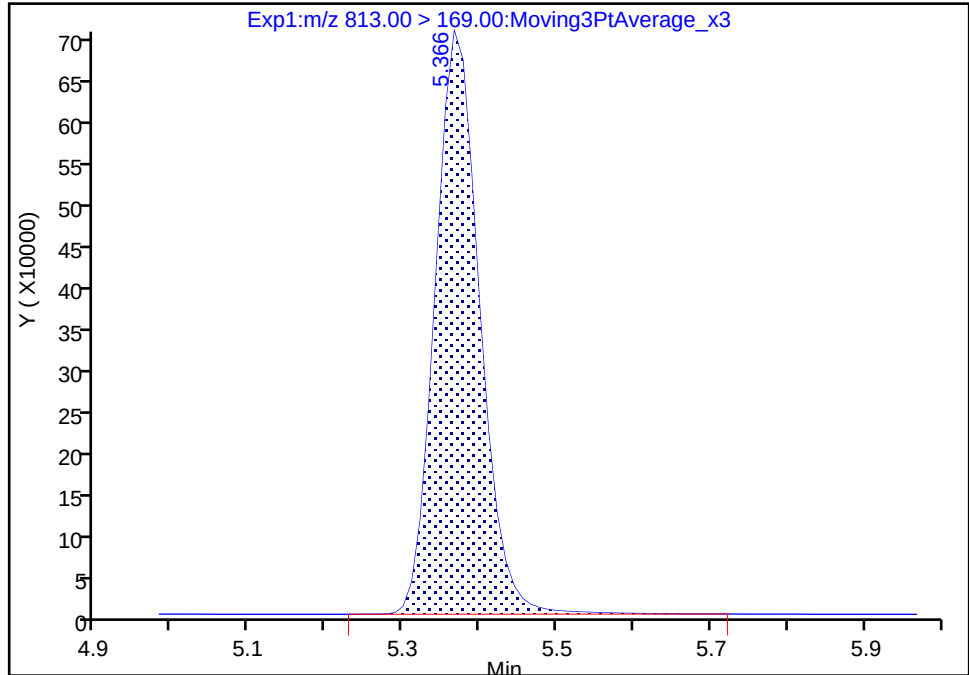
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

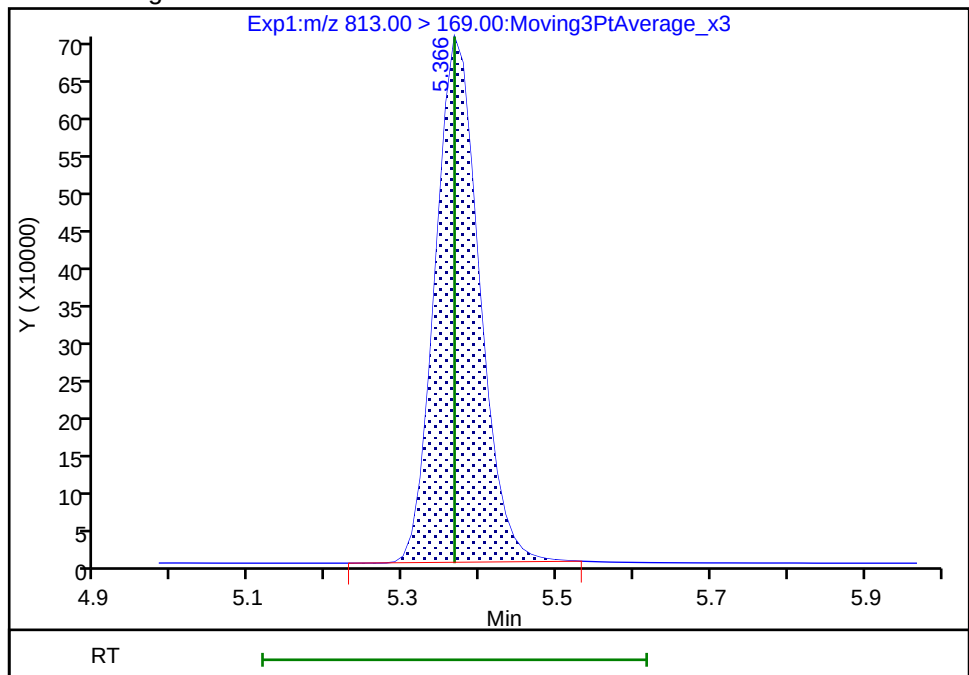
RT: 5.37
Area: 2835121
Amount: 10.008046
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2805404
Amount: 10.008049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

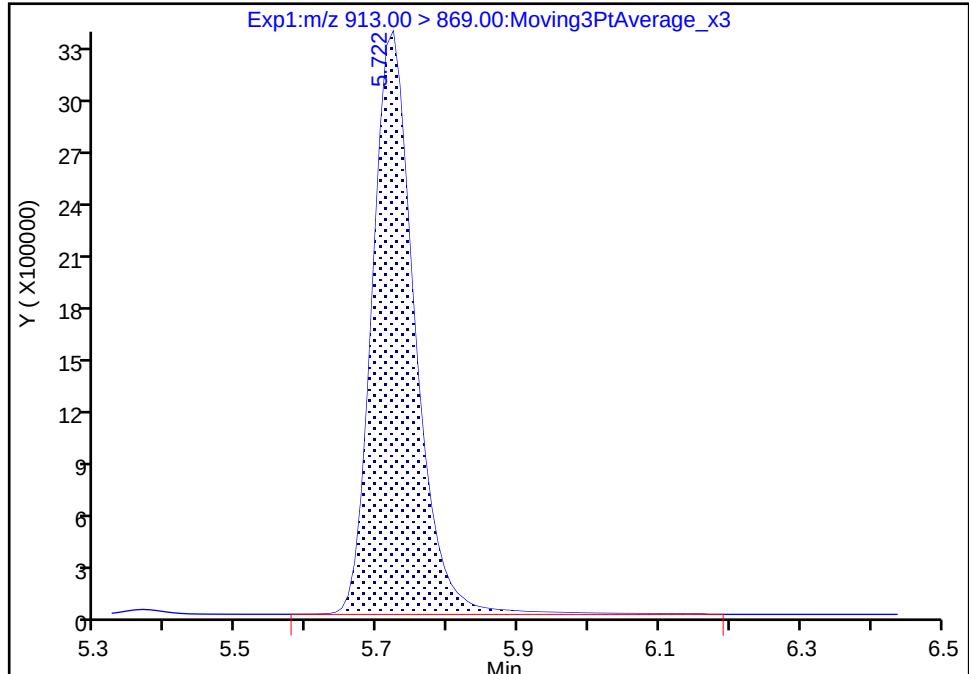
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

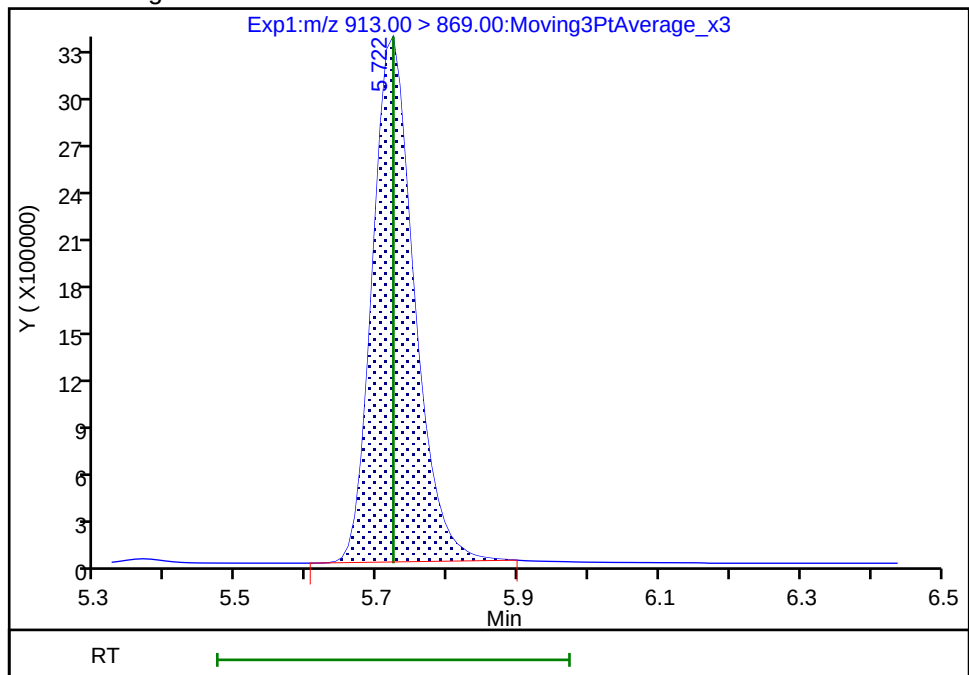
RT: 5.72
Area: 13908772
Amount: 9.598192
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 13617092
Amount: 9.428539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

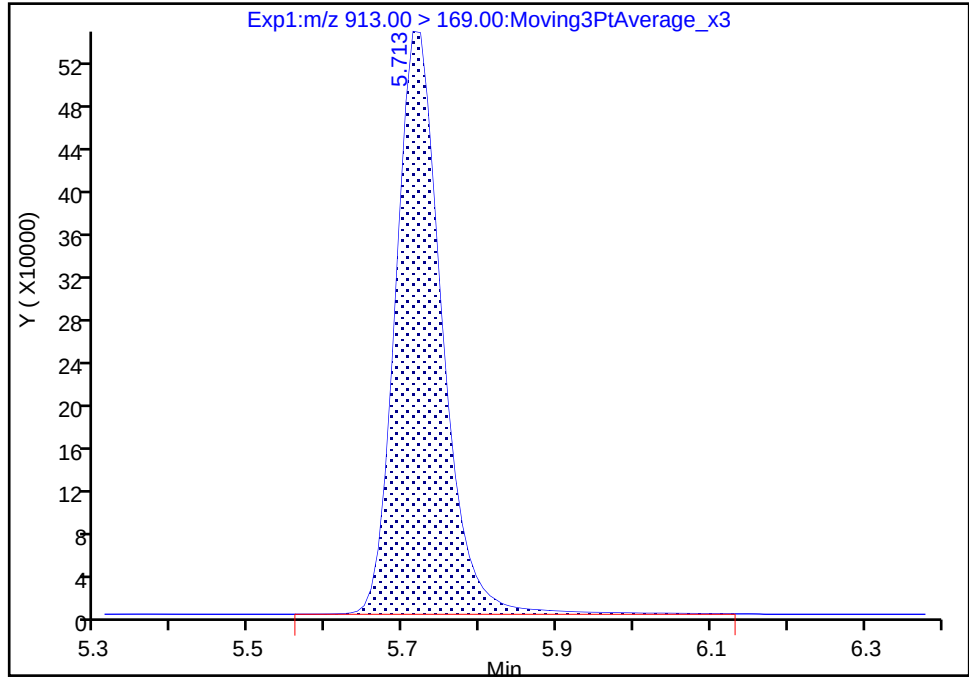
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

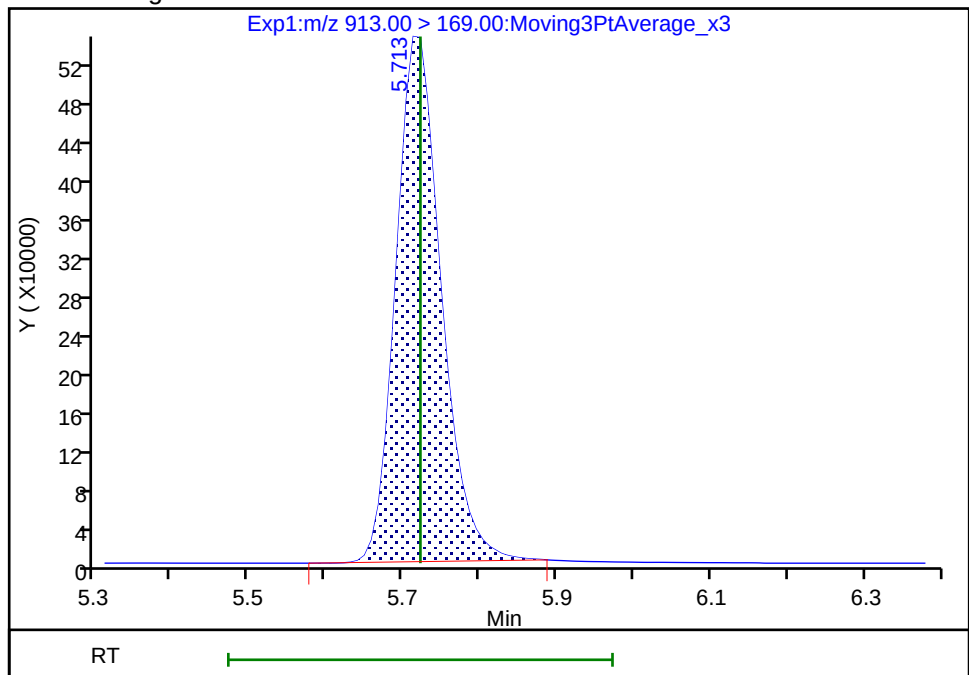
RT: 5.71
Area: 2271279
Amount: 9.598192
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 2220967
Amount: 9.428539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Calibration

/ Perfluorobutanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

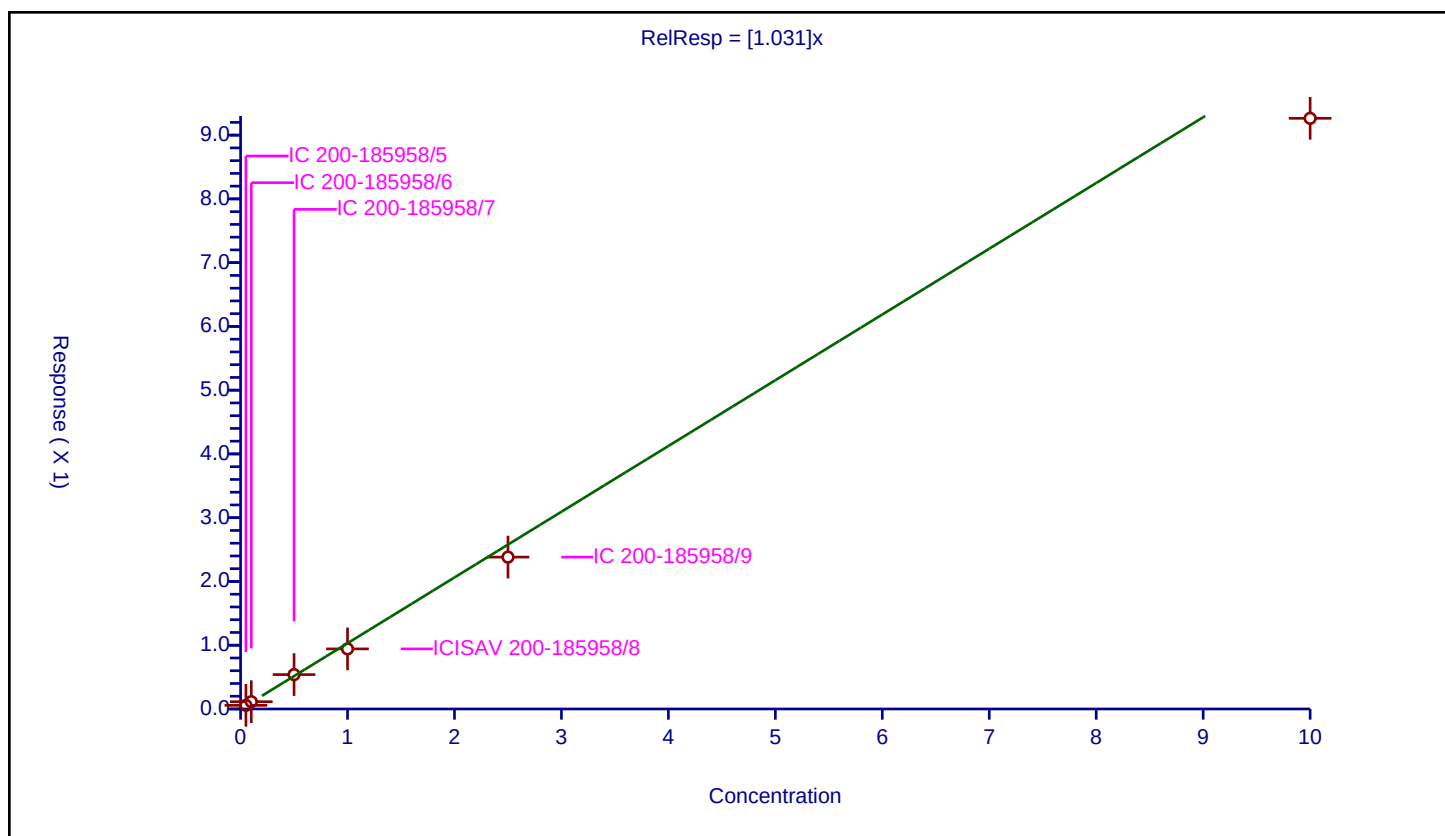
Curve Coefficients

Intercept: 0
Slope: 1.031

Error Coefficients

Standard Error: 8550000
Relative Standard Error: 9.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057224	1.25	2565506.0	1.144482	Y
2	IC 200-185958/6	0.1	0.114249	1.25	2583086.0	1.142485	Y
3	IC 200-185958/7	0.5	0.539241	1.25	2637410.0	1.078482	Y
4	ICISAV 200-185958/8	1.0	0.942534	1.25	2534911.0	0.942534	Y
5	IC 200-185958/9	2.5	2.381988	1.25	2679202.0	0.952795	Y
6	IC 200-185958/10	10.0	9.26398	1.25	2467565.0	0.926398	Y



Calibration

/ Perfluoropentanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

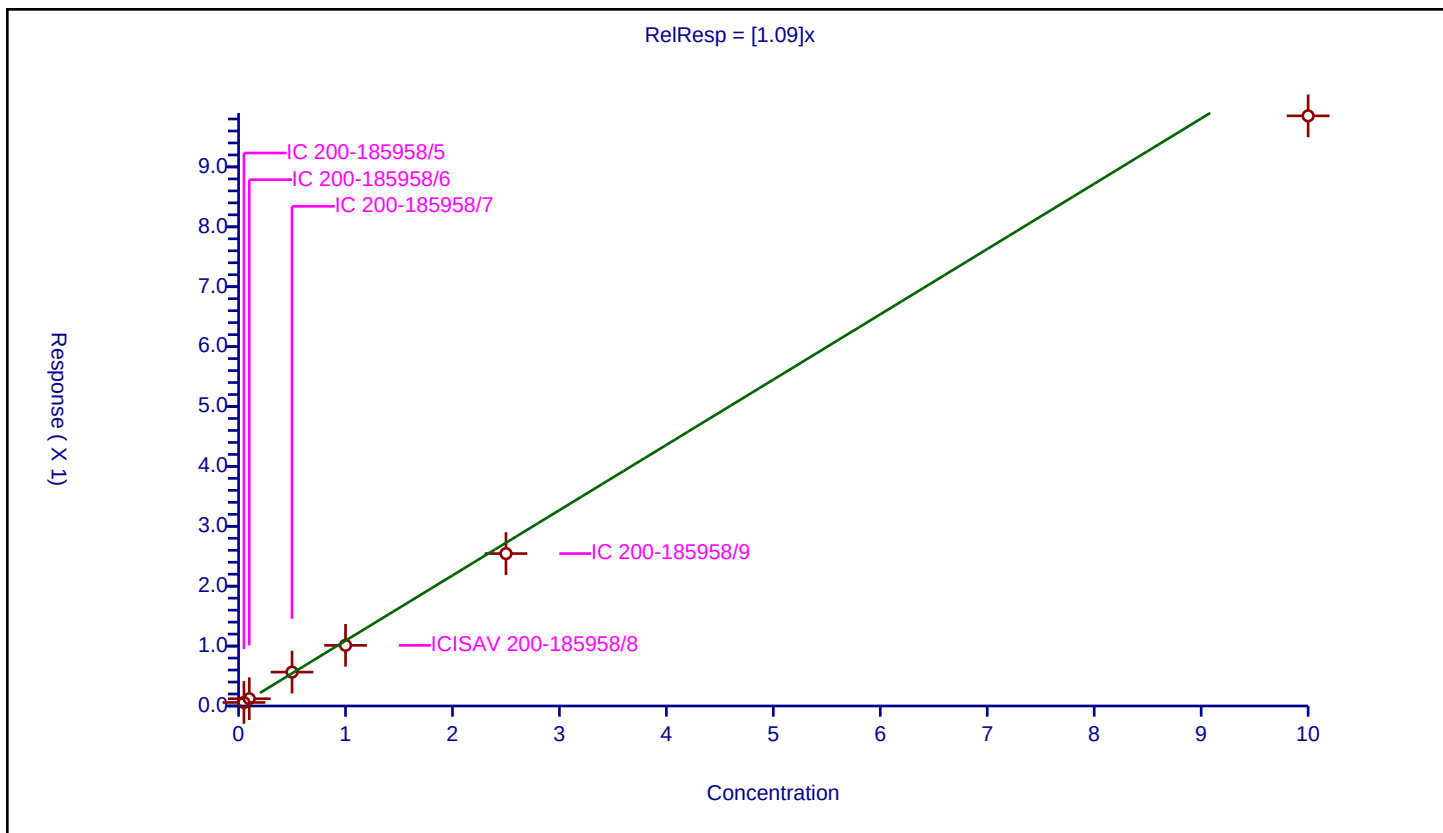
Curve Coefficients

Intercept: 0
 Slope: 1.09

Error Coefficients

Standard Error: 6860000
 Relative Standard Error: 8.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058833	1.25	1939262.0	1.176659	Y
2	IC 200-185958/6	0.1	0.121498	1.25	1926794.0	1.214985	Y
3	IC 200-185958/7	0.5	0.565812	1.25	2052396.0	1.131624	Y
4	ICISAV 200-185958/8	1.0	1.012574	1.25	1977830.0	1.012574	Y
5	IC 200-185958/9	2.5	2.544537	1.25	2026955.0	1.017815	Y
6	IC 200-185958/10	10.0	9.852991	1.25	1859782.0	0.985299	Y



Calibration

/ Perfluorobutanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

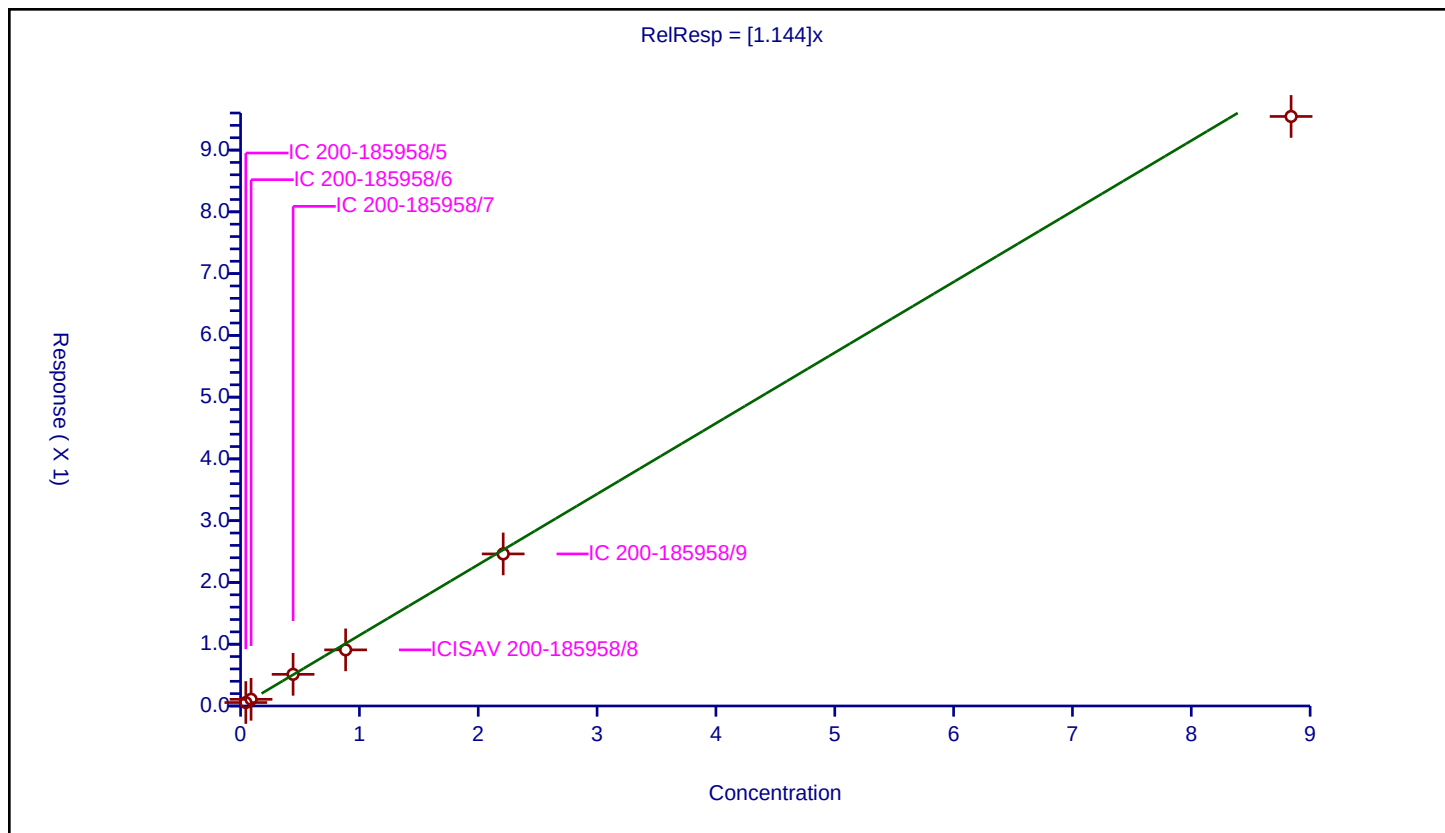
Curve Coefficients

Intercept: 0
 Slope: 1.144

Error Coefficients

Standard Error: 7350000
 Relative Standard Error: 7.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0442	0.055758	1.1625	1961265.0	1.261495	Y
2	IC 200-185958/6	0.0884	0.107986	1.1625	1974243.0	1.221563	Y
3	IC 200-185958/7	0.442	0.512666	1.1625	2040575.0	1.159878	Y
4	ICISAV 200-185958/8	0.884	0.908628	1.1625	1977208.0	1.02786	Y
5	IC 200-185958/9	2.21	2.46206	1.1625	2026741.0	1.114054	Y
6	IC 200-185958/10	8.84	9.544152	1.1625	1920108.0	1.079655	Y



Calibration

/ 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

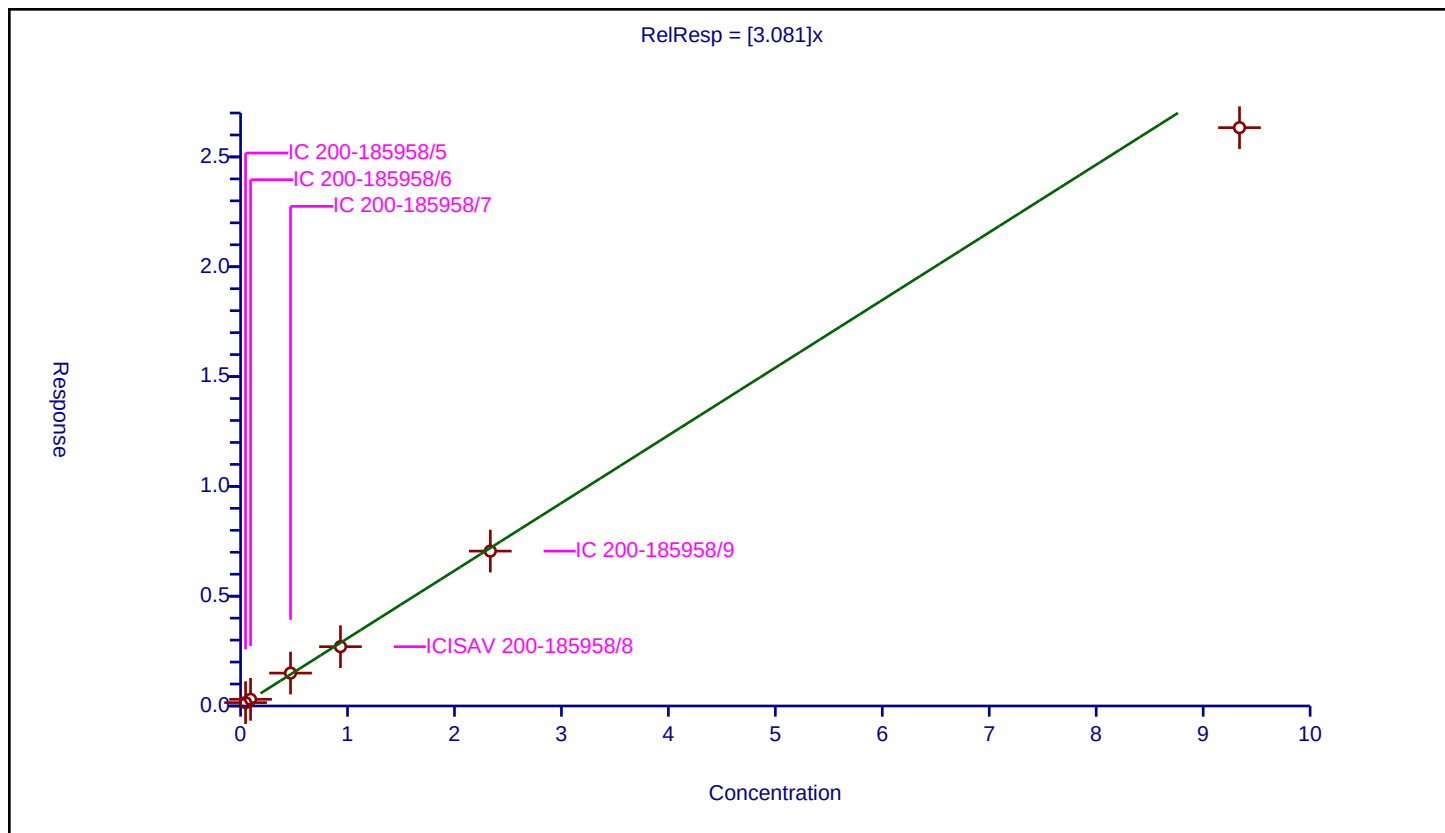
Curve Coefficients

Intercept: 0
 Slope: 3.081

Error Coefficients

Standard Error: 1780000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0467	0.15414	1.1675	184320.0	3.300646	Y
2	IC 200-185958/6	0.0934	0.303025	1.1675	176875.0	3.244382	Y
3	IC 200-185958/7	0.467	1.498032	1.1675	178810.0	3.207776	Y
4	ICISAV 200-185958/8	0.934	2.701025	1.1675	169056.0	2.891889	Y
5	IC 200-185958/9	2.335	7.053067	1.1675	178646.0	3.020585	Y
6	IC 200-185958/10	9.34	26.333856	1.1675	168186.0	2.819471	Y



Calibration

/ Perfluorohexanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

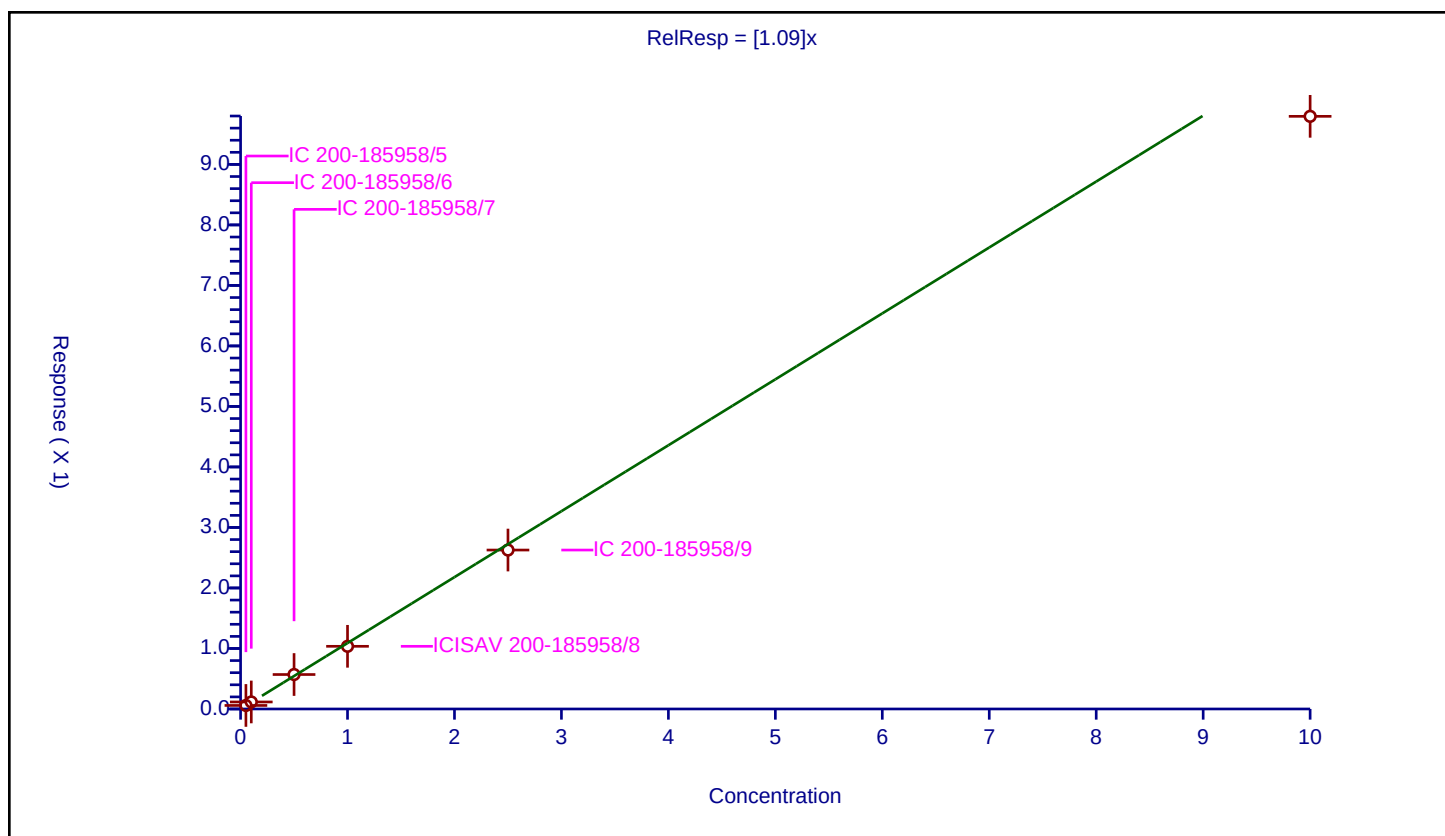
Curve Coefficients

Intercept: 0
 Slope: 1.09

Error Coefficients

Standard Error: 7040000
 Relative Standard Error: 7.2
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058558	1.25	1995025.0	1.171151	Y
2	IC 200-185958/6	0.1	0.116113	1.25	2057289.0	1.161134	Y
3	IC 200-185958/7	0.5	0.569539	1.25	2177304.0	1.139078	Y
4	ICISAV 200-185958/8	1.0	1.036018	1.25	2055340.0	1.036018	Y
5	IC 200-185958/9	2.5	2.627037	1.25	2164012.0	1.050815	Y
6	IC 200-185958/10	10.0	9.79467	1.25	1905245.0	0.979467	Y



Calibration

/ Perfluoropentanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

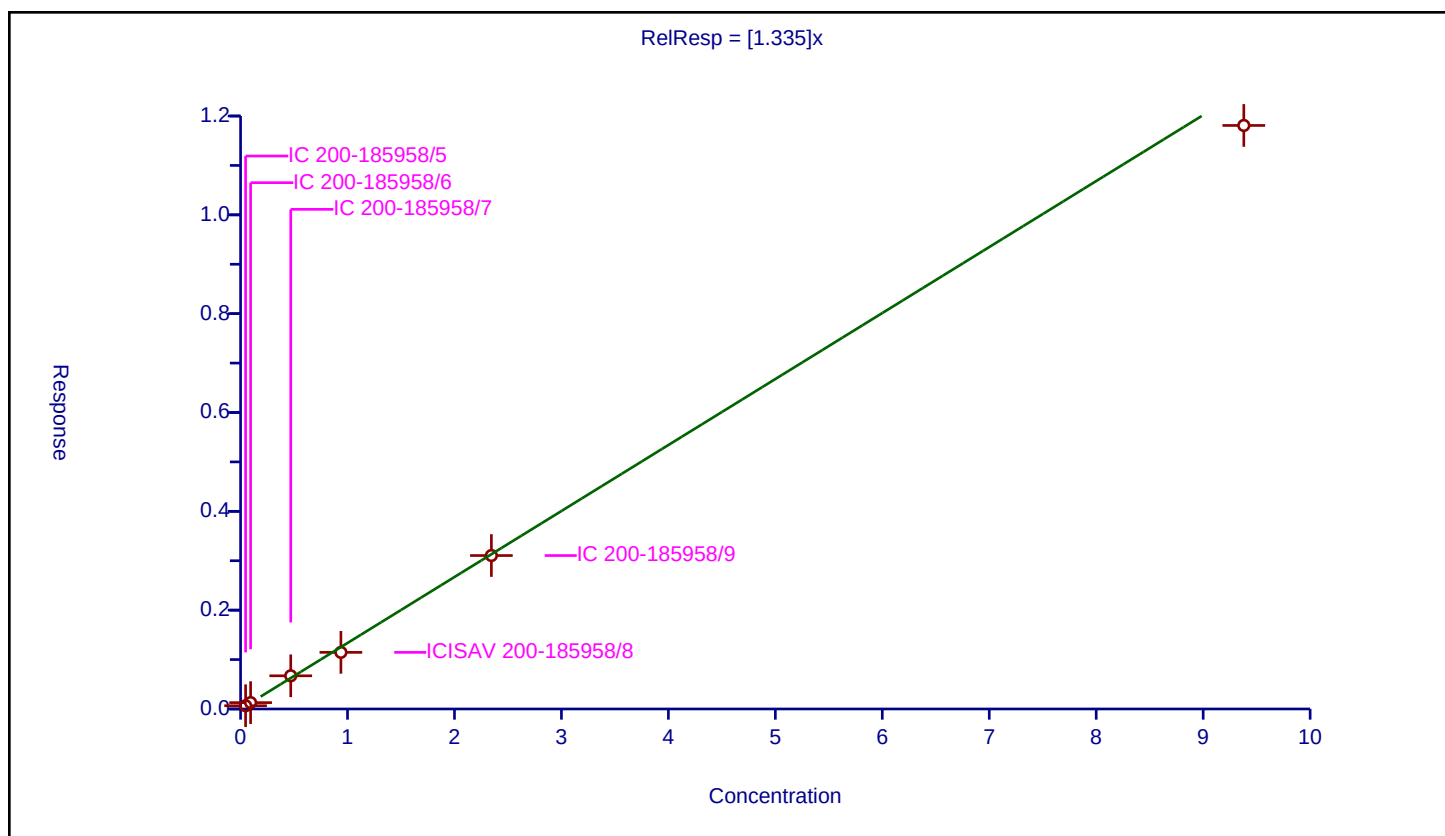
Curve Coefficients

Intercept: 0
 Slope: 1.335

Error Coefficients

Standard Error: 6610000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0469	0.065942	1.1825	1483321.0	1.406008	Y
2	IC 200-185958/6	0.0938	0.128511	1.1825	1507942.0	1.370052	Y
3	IC 200-185958/7	0.469	0.671495	1.1825	1474490.0	1.431758	Y
4	ICISAV 200-185958/8	0.938	1.145942	1.1825	1449028.0	1.221687	Y
5	IC 200-185958/9	2.345	3.105213	1.1825	1485775.0	1.324185	Y
6	IC 200-185958/10	9.38	11.808932	1.1825	1417084.0	1.258948	Y



Calibration

/ Perfluoro(2-propoxypropanoic) acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

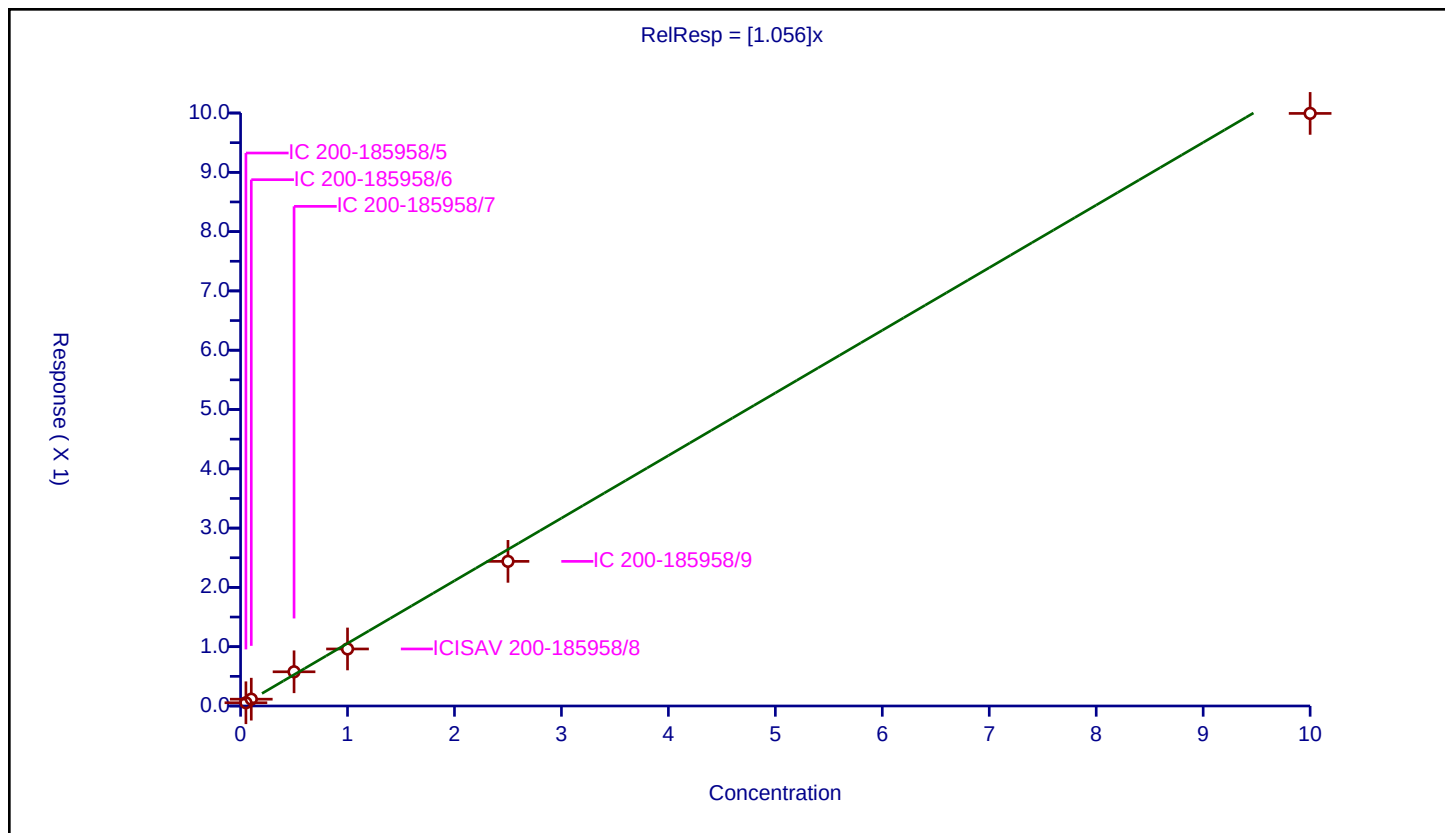
Curve Coefficients

Intercept: 0
 Slope: 1.056

Error Coefficients

Standard Error: 1300000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.054781	1.25	337960.0	1.095618	Y
2	IC 200-185958/6	0.1	0.114926	1.25	352715.0	1.149264	Y
3	IC 200-185958/7	0.5	0.576866	1.25	378942.0	1.153732	Y
4	ICISAV 200-185958/8	1.0	0.961905	1.25	372889.0	0.961905	Y
5	IC 200-185958/9	2.5	2.439146	1.25	387831.0	0.975658	Y
6	IC 200-185958/10	10.0	9.993461	1.25	349067.0	0.999346	Y



Calibration

/ Perfluorohexanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

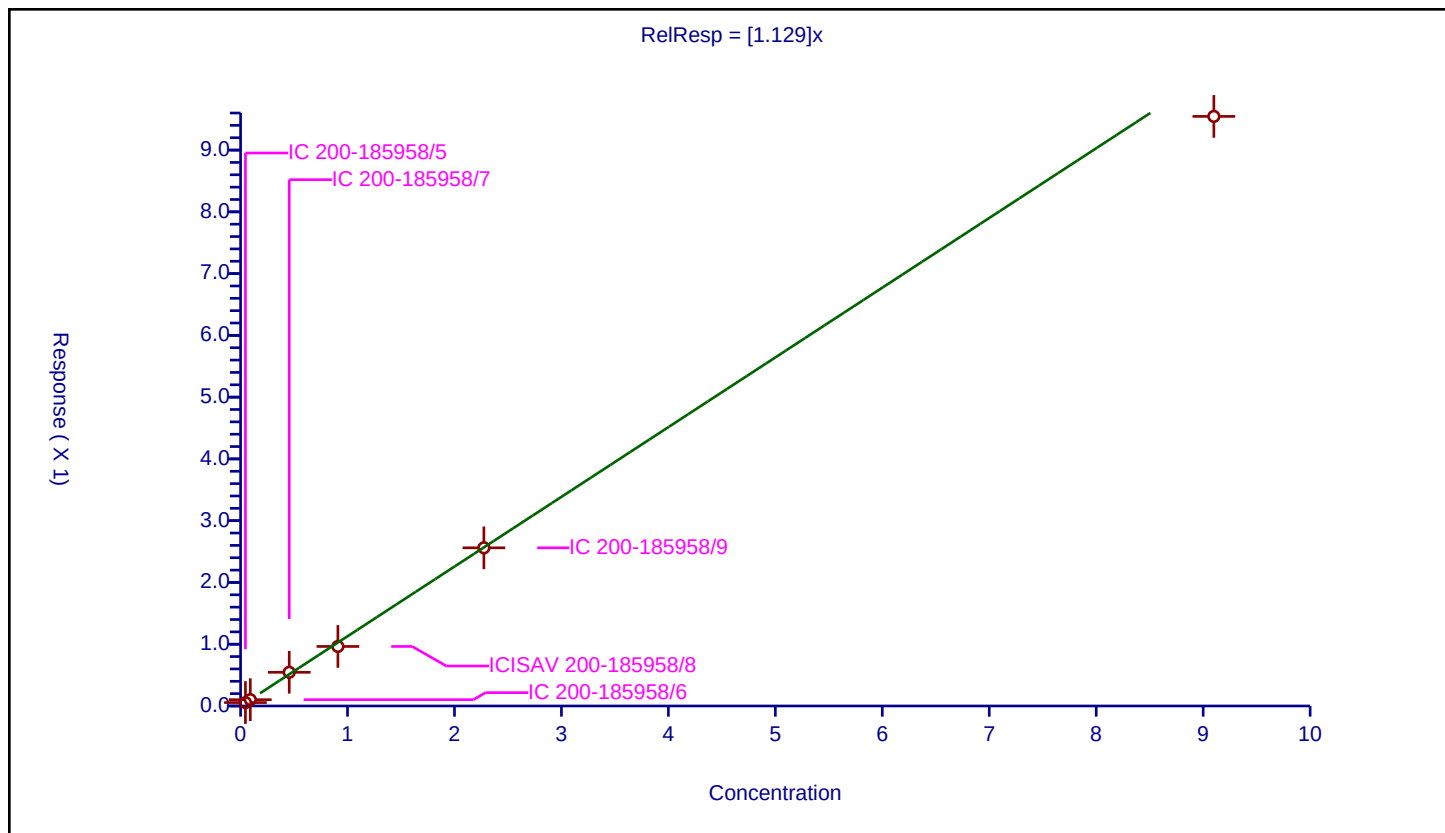
Curve Coefficients

Intercept: 0
 Slope: 1.129

Error Coefficients

Standard Error: 5350000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0455	0.055357	1.1825	1483321.0	1.216629	Y
2	IC 200-185958/6	0.091	0.10215	1.1825	1507942.0	1.122525	Y
3	IC 200-185958/7	0.455	0.545667	1.1825	1474490.0	1.199267	Y
4	ICISAV 200-185958/8	0.91	0.963656	1.1825	1449028.0	1.058963	Y
5	IC 200-185958/9	2.275	2.560878	1.1825	1485775.0	1.125661	Y
6	IC 200-185958/10	9.1	9.544961	1.1825	1417084.0	1.048897	Y



Calibration

/ Perfluoroheptanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

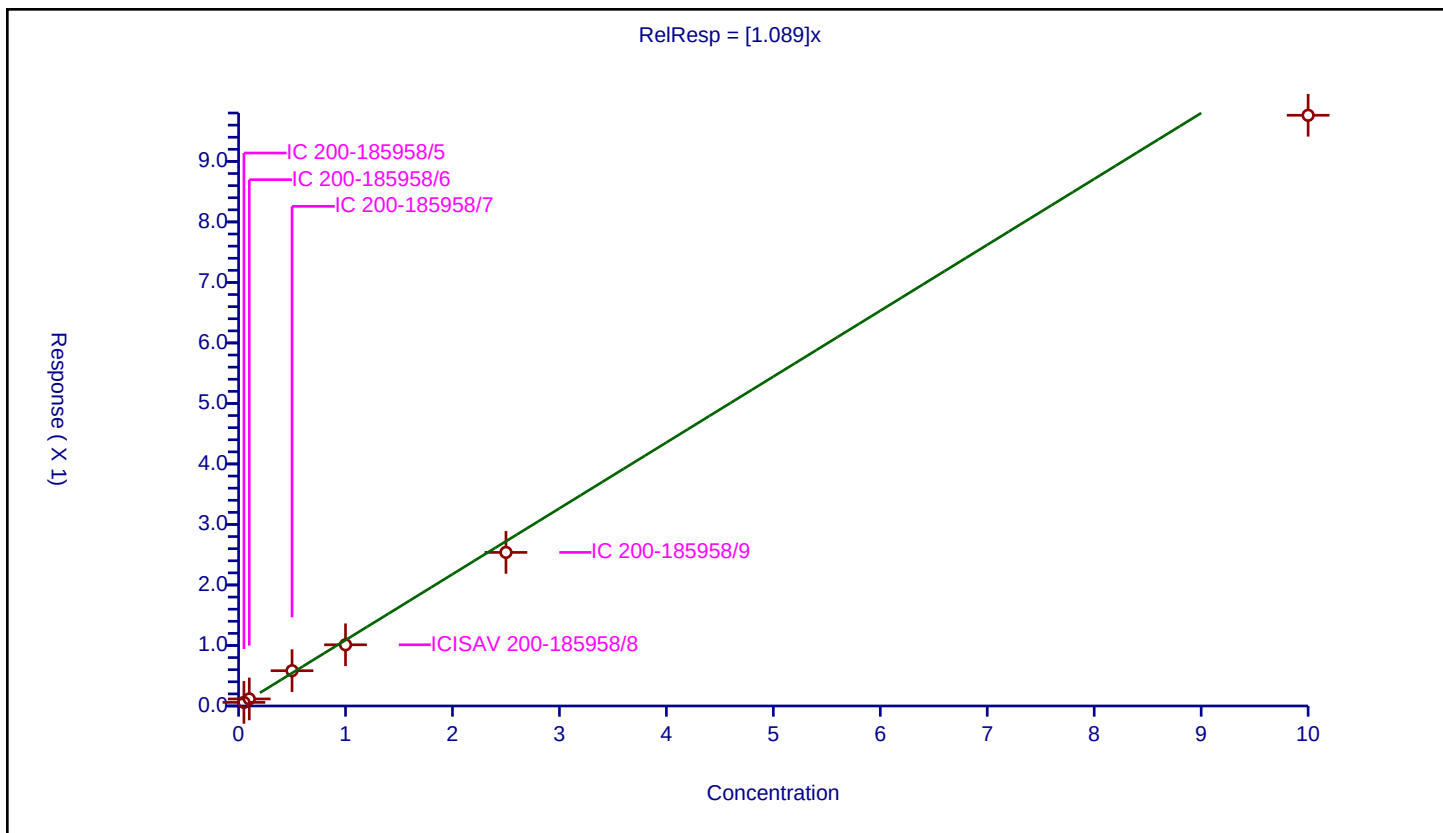
Curve Coefficients

Intercept: 0
Slope: 1.089

Error Coefficients

Standard Error: 7240000
Relative Standard Error: 9.0
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.059812	1.25	2099356.0	1.196236	Y
2	IC 200-185958/6	0.1	0.116645	1.25	2087570.0	1.166446	Y
3	IC 200-185958/7	0.5	0.583295	1.25	2150118.0	1.166589	Y
4	ICISAV 200-185958/8	1.0	1.011758	1.25	2123066.0	1.011758	Y
5	IC 200-185958/9	2.5	2.538419	1.25	2271049.0	1.015368	Y
6	IC 200-185958/10	10.0	9.762974	1.25	1969787.0	0.976297	Y



Calibration

/ DONA

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

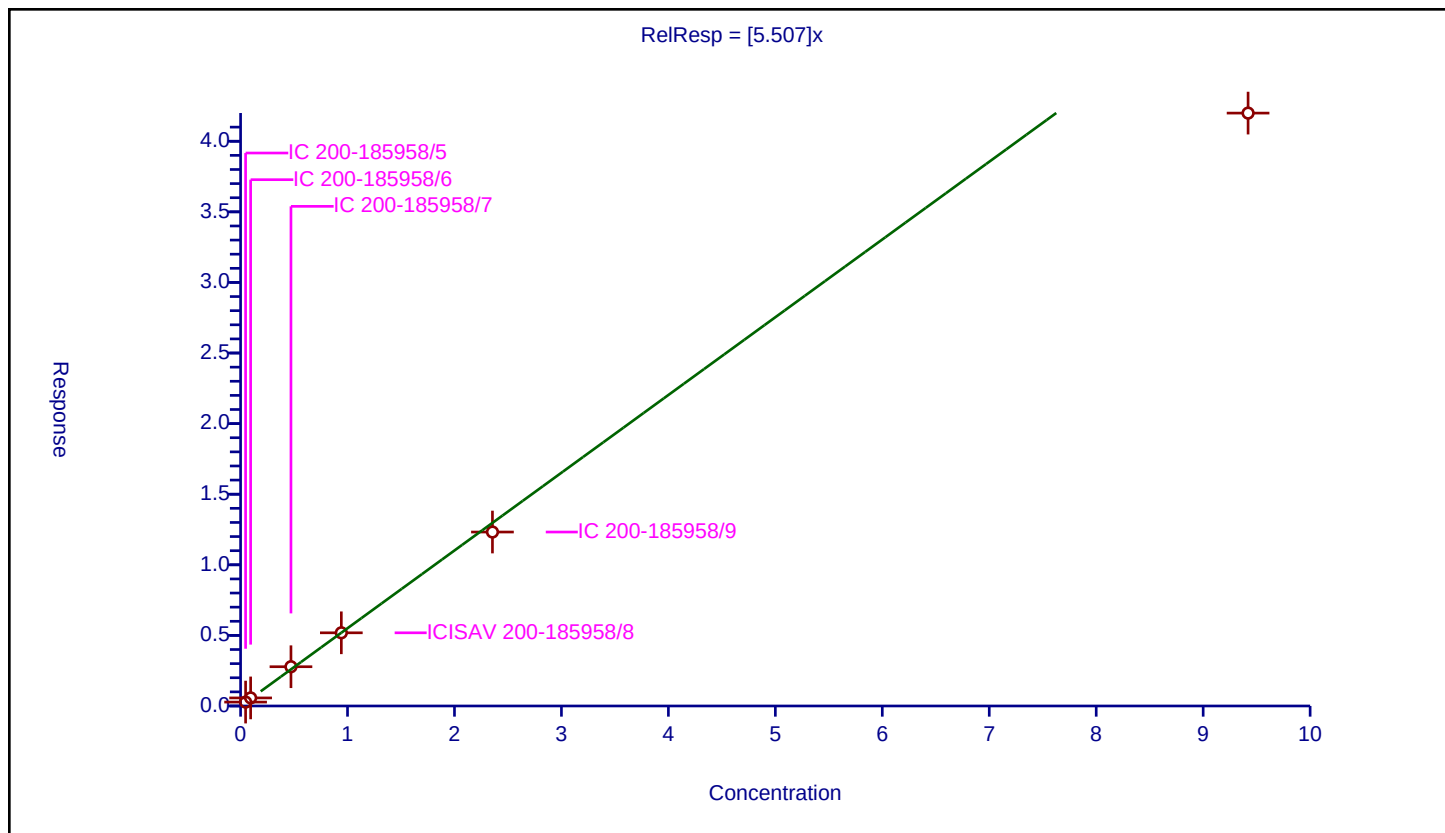
Curve Coefficients

Intercept: 0
Slope: 5.507

Error Coefficients

Standard Error: 16500000
Relative Standard Error: 10.9
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0471	0.276629	1.195	989045.0	5.873234	Y
2	IC 200-185958/6	0.0942	0.571824	1.195	1010315.0	6.070323	Y
3	IC 200-185958/7	0.471	2.781198	1.195	1035061.0	5.904879	Y
4	ICISAV 200-185958/8	0.942	5.184478	1.195	967441.0	5.503692	Y
5	IC 200-185958/9	2.355	12.321992	1.195	1049764.0	5.232268	Y
6	IC 200-185958/10	9.42	41.995038	1.195	993714.0	4.458072	Y



Calibration

/ Perfluoroheptanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

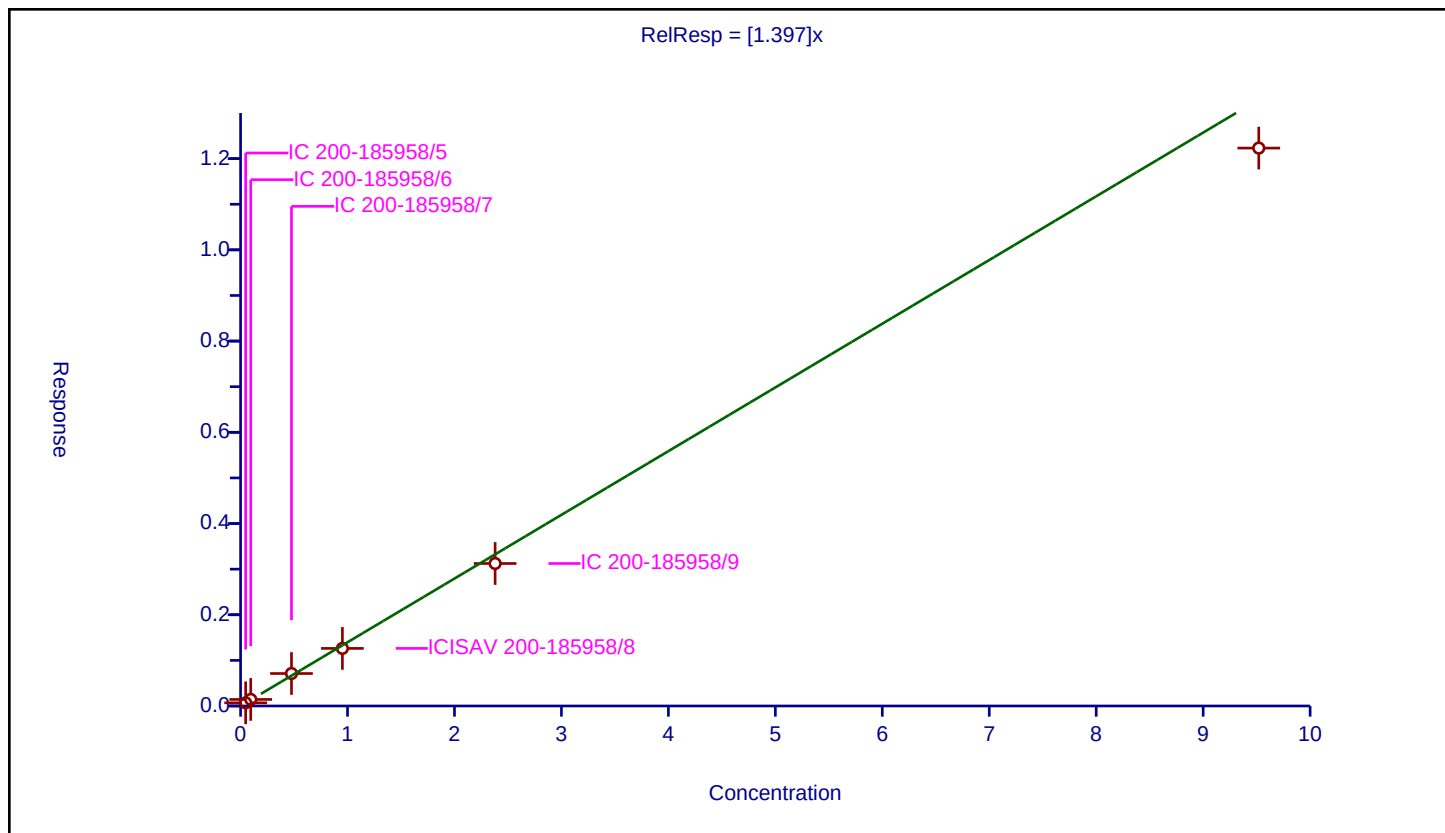
Curve Coefficients

Intercept: 0
 Slope: 1.397

Error Coefficients

Standard Error: 4740000
 Relative Standard Error: 7.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0476	0.069184	1.195	989045.0	1.453437	Y
2	IC 200-185958/6	0.0952	0.143591	1.195	1010315.0	1.508305	Y
3	IC 200-185958/7	0.476	0.711751	1.195	1035061.0	1.495275	Y
4	ICISAV 200-185958/8	0.952	1.262274	1.195	967441.0	1.325918	Y
5	IC 200-185958/9	2.38	3.123937	1.195	1049764.0	1.312579	Y
6	IC 200-185958/10	9.52	12.23132	1.195	993714.0	1.284802	Y



Calibration

/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

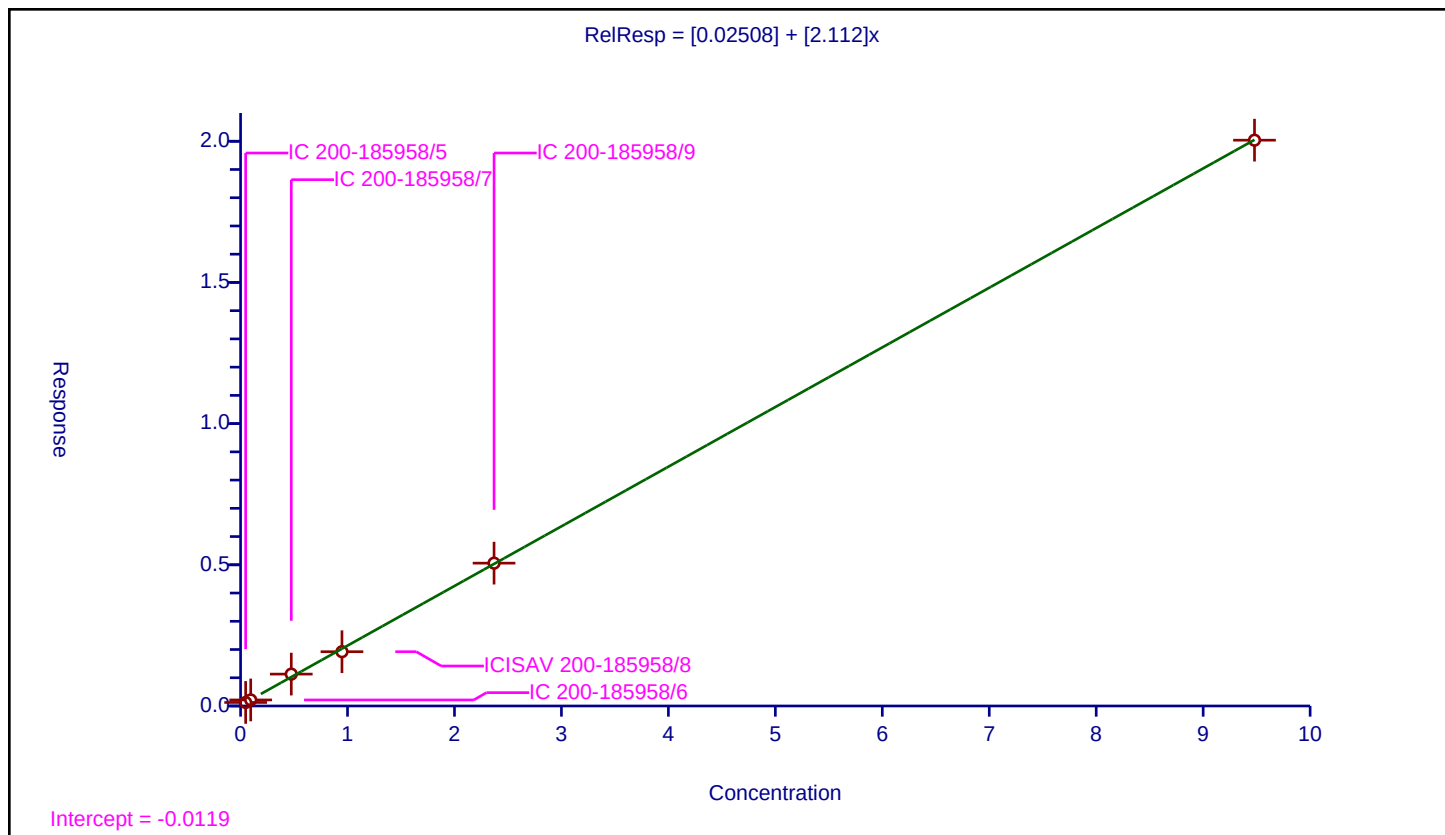
Curve Coefficients

Intercept: 0.02508
Slope: 2.112

Error Coefficients

Standard Error: 1960000
Relative Standard Error: 6.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0474	0.125278	1.1875	255115.0	2.643002	Y
2	IC 200-185958/6	0.0948	0.214255	1.1875	254748.0	2.260075	Y
3	IC 200-185958/7	0.474	1.129262	1.1875	247623.0	2.38241	Y
4	ICISAV 200-185958/8	0.948	1.921884	1.1875	249636.0	2.027304	Y
5	IC 200-185958/9	2.37	5.059011	1.1875	257709.0	2.134604	Y
6	IC 200-185958/10	9.48	20.037836	1.1875	221871.0	2.113696	Y



Calibration

/ Perfluorooctanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

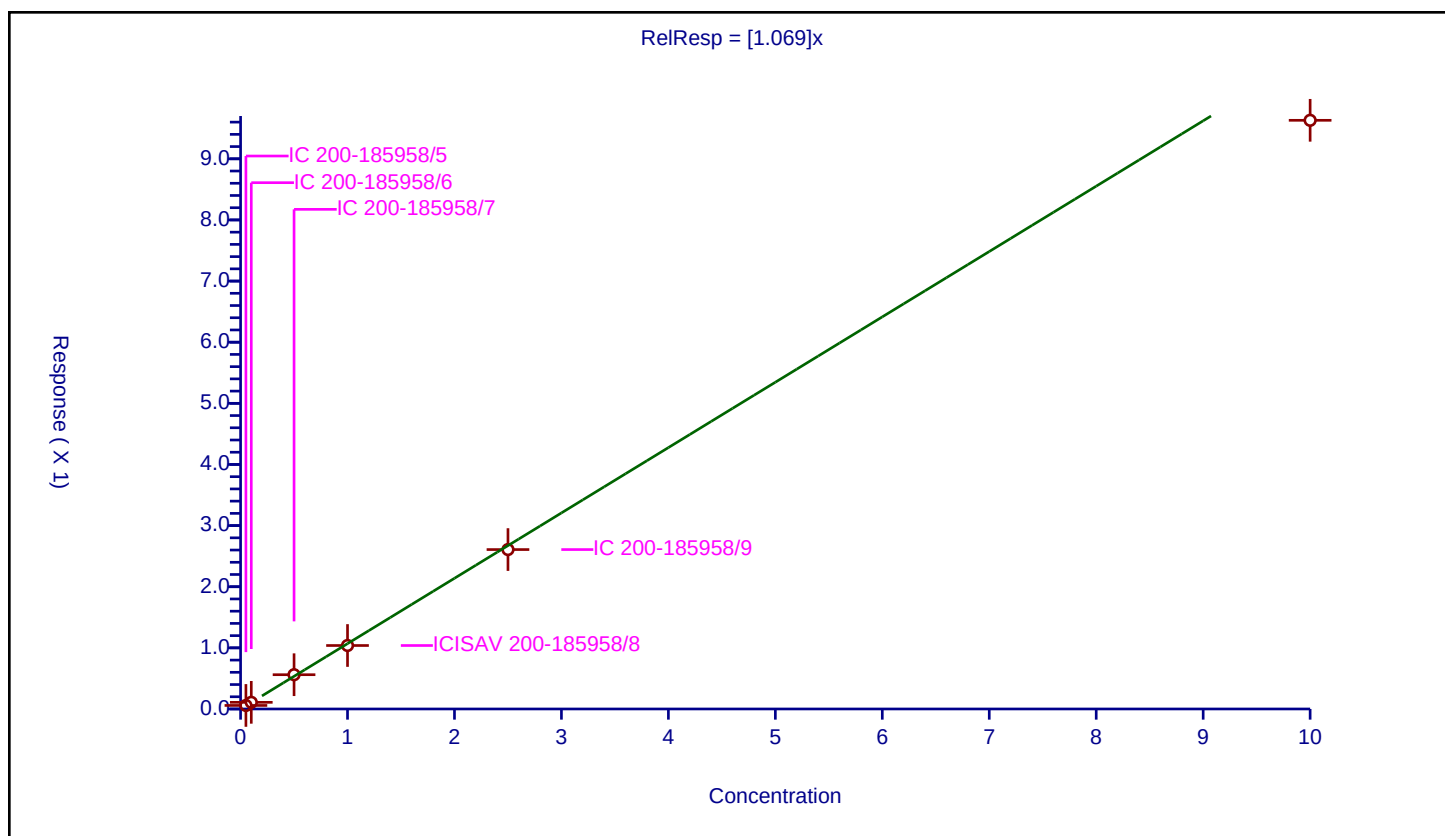
Curve Coefficients

Intercept: 0
 Slope: 1.069

Error Coefficients

Standard Error: 8010000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057928	1.25	2369880.0	1.158561	Y
2	IC 200-185958/6	0.1	0.10893	1.25	2369406.0	1.089303	Y
3	IC 200-185958/7	0.5	0.56085	1.25	2474245.0	1.1217	Y
4	ICISAV 200-185958/8	1.0	1.038544	1.25	2342274.0	1.038544	Y
5	IC 200-185958/9	2.5	2.607899	1.25	2522753.0	1.04316	Y
6	IC 200-185958/10	10.0	9.629585	1.25	2203793.0	0.962958	Y



Calibration

/ Perfluorooctanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

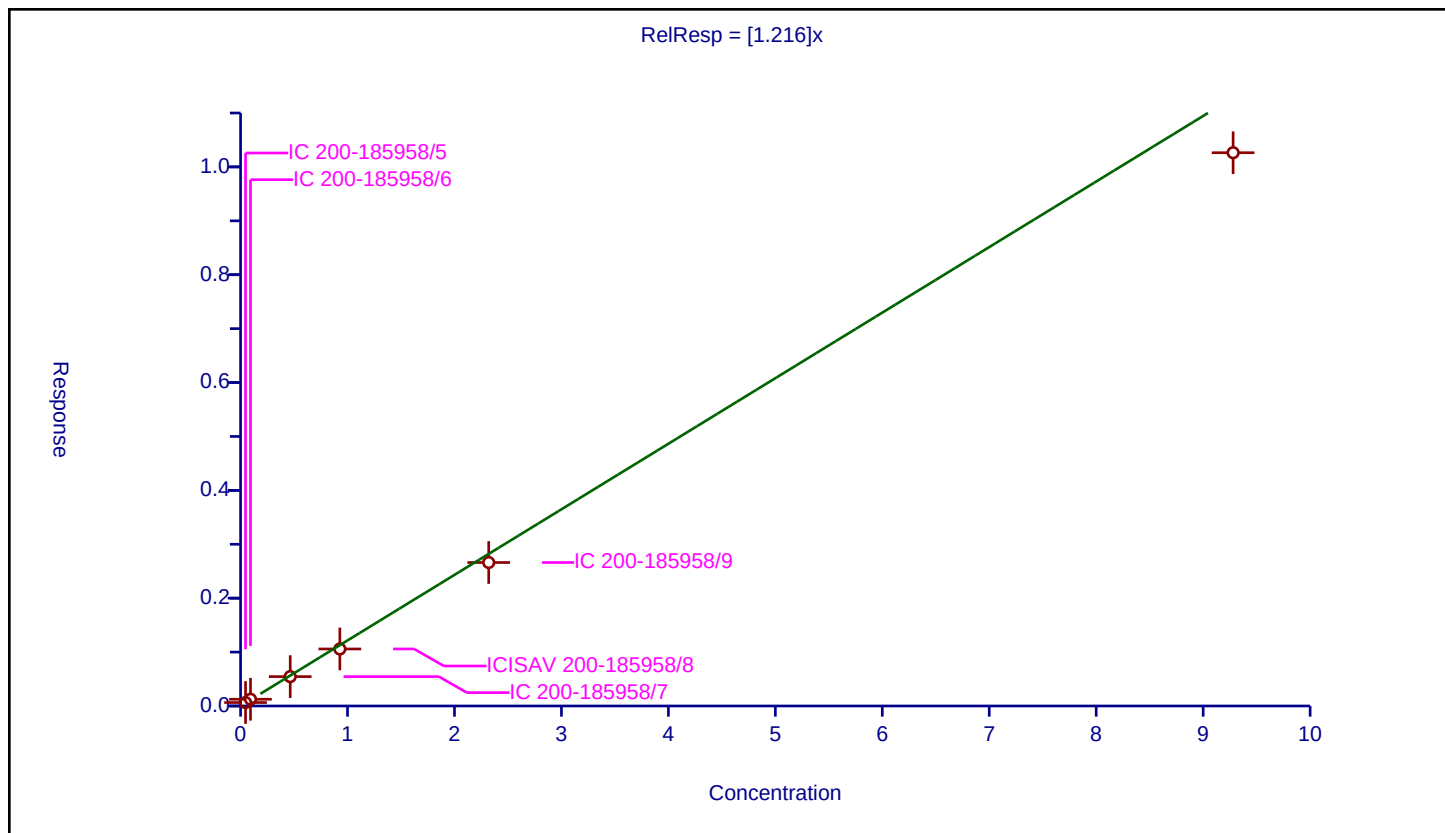
Curve Coefficients

Intercept: 0
 Slope: 1.216

Error Coefficients

Standard Error: 3980000
 Relative Standard Error: 9.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0464	0.064237	1.195	989045.0	1.38442	Y
2	IC 200-185958/6	0.0928	0.124818	1.195	1010315.0	1.345026	Y
3	IC 200-185958/7	0.464	0.544794	1.195	1035061.0	1.174126	Y
4	ICISAV 200-185958/8	0.928	1.057996	1.195	967441.0	1.140082	Y
5	IC 200-185958/9	2.32	2.66153	1.195	1049764.0	1.147211	Y
6	IC 200-185958/10	9.28	10.263454	1.195	993714.0	1.105976	Y



Calibration

/ Perfluorononanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

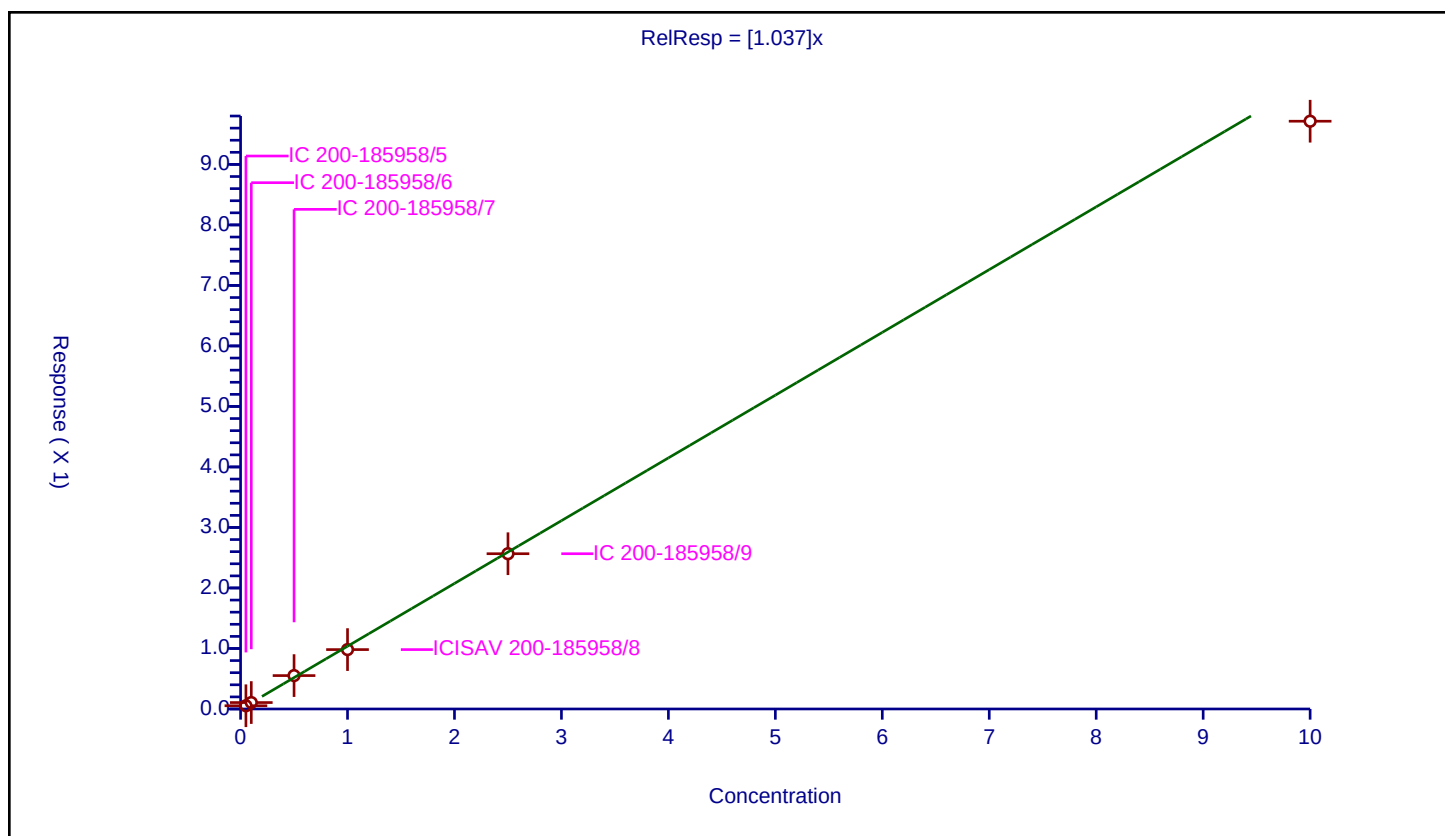
Curve Coefficients

Intercept: 0
Slope: 1.037

Error Coefficients

Standard Error: 7690000
Relative Standard Error: 5.1
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.053731	1.25	2280957.0	1.074615	Y
2	IC 200-185958/6	0.1	0.106615	1.25	2362013.0	1.066146	Y
3	IC 200-185958/7	0.5	0.551805	1.25	2379680.0	1.10361	Y
4	ICISAV 200-185958/8	1.0	0.981878	1.25	2356501.0	0.981878	Y
5	IC 200-185958/9	2.5	2.566207	1.25	2401890.0	1.026483	Y
6	IC 200-185958/10	10.0	9.713994	1.25	2102974.0	0.971399	Y



Calibration

/ 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

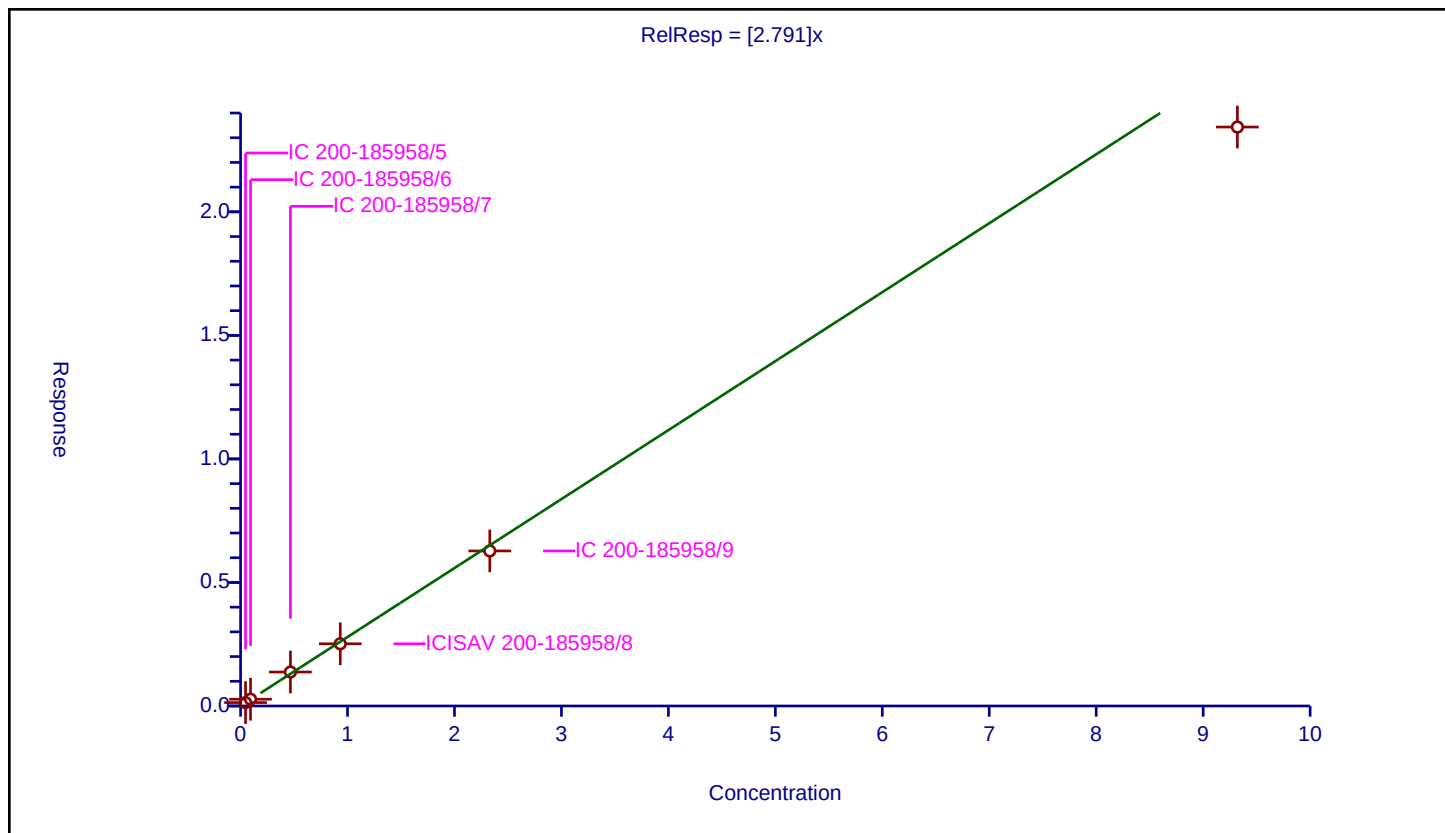
Curve Coefficients

Intercept: 0
 Slope: 2.791

Error Coefficients

Standard Error: 9120000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0466	0.13781	1.195	989045.0	2.957301	Y
2	IC 200-185958/6	0.0932	0.273121	1.195	1010315.0	2.930487	Y
3	IC 200-185958/7	0.466	1.375015	1.195	1035061.0	2.950677	Y
4	ICISAV 200-185958/8	0.932	2.517272	1.195	967441.0	2.700935	Y
5	IC 200-185958/9	2.33	6.275684	1.195	1049764.0	2.693427	Y
6	IC 200-185958/10	9.32	23.431976	1.195	993714.0	2.514161	Y



Calibration

/ Perfluorononanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

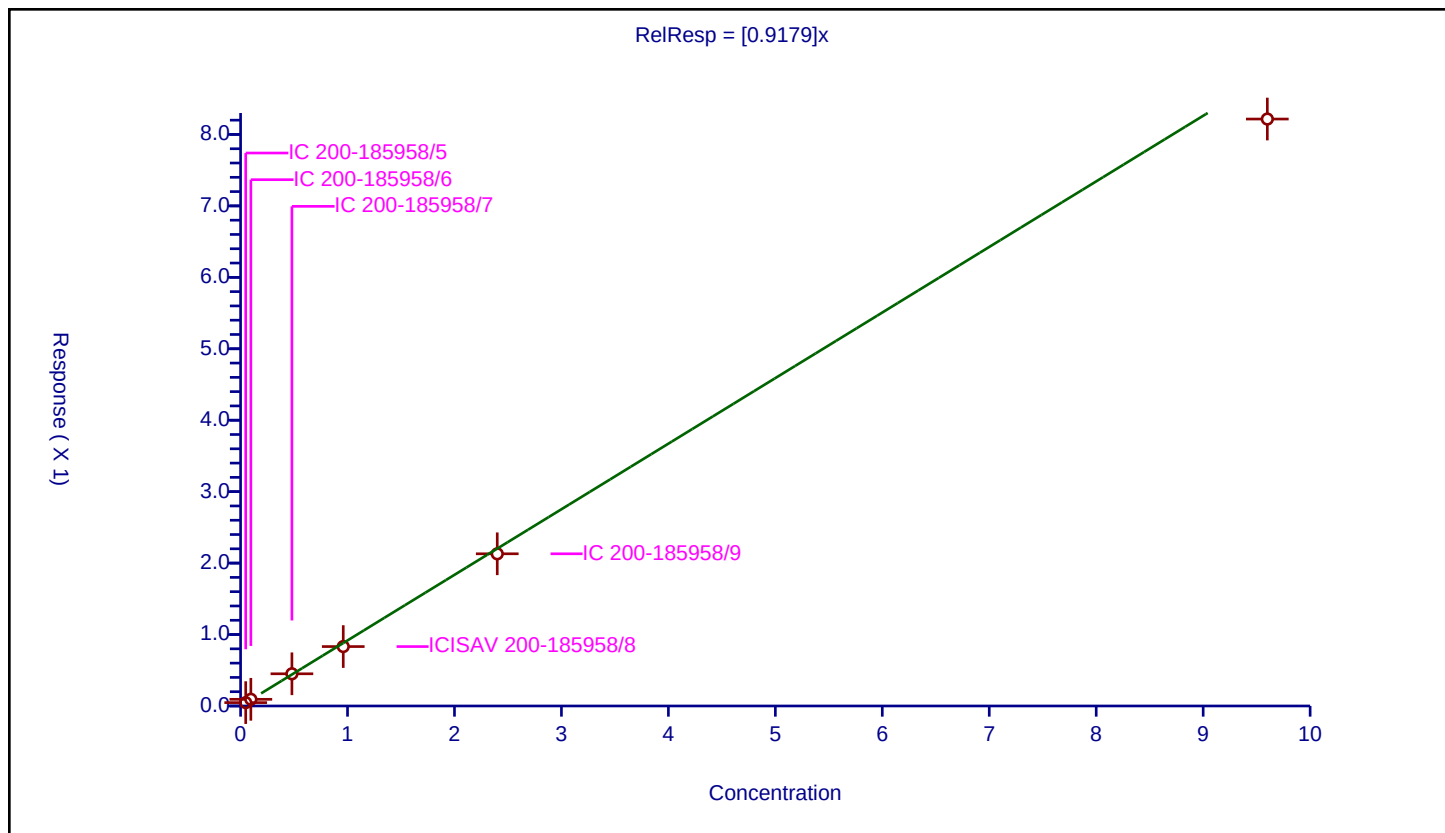
Curve Coefficients

Intercept: 0
 Slope: 0.9179

Error Coefficients

Standard Error: 3190000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.048	0.04718	1.195	989045.0	0.982925	Y
2	IC 200-185958/6	0.096	0.093669	1.195	1010315.0	0.975723	Y
3	IC 200-185958/7	0.48	0.450766	1.195	1035061.0	0.939095	Y
4	ICISAV 200-185958/8	0.96	0.831668	1.195	967441.0	0.866321	Y
5	IC 200-185958/9	2.4	2.130194	1.195	1049764.0	0.887581	Y
6	IC 200-185958/10	9.6	8.215732	1.195	993714.0	0.855805	Y



Calibration

/ Perfluorodecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

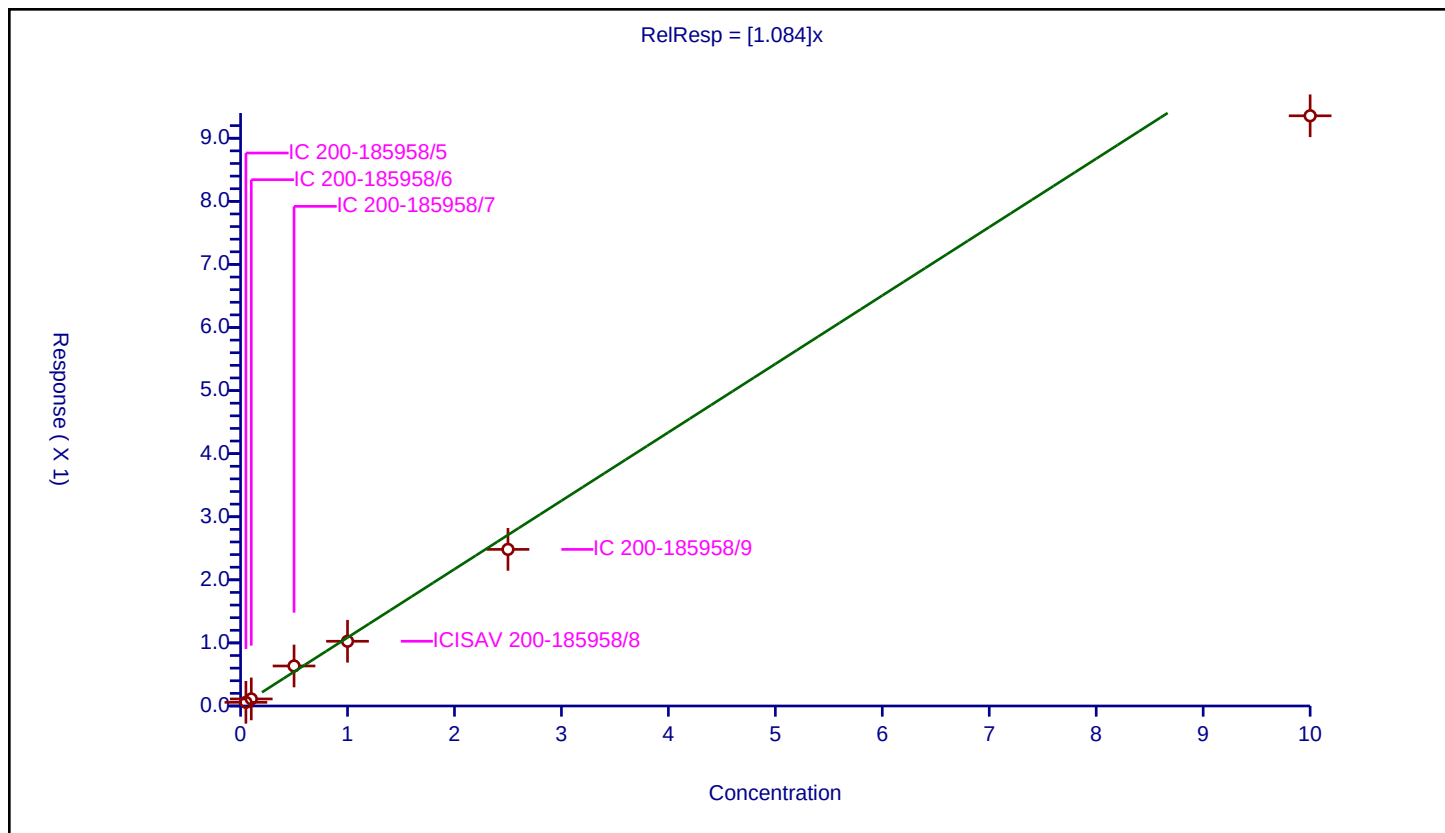
Curve Coefficients

Intercept: 0
Slope: 1.084

Error Coefficients

Standard Error: 7850000
Relative Standard Error: 11.3
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058304	1.25	2260154.0	1.166082	Y
2	IC 200-185958/6	0.1	0.11171	1.25	2439344.0	1.117098	Y
3	IC 200-185958/7	0.5	0.634421	1.25	2334094.0	1.268842	Y
4	ICISAV 200-185958/8	1.0	1.026097	1.25	2384612.0	1.026097	Y
5	IC 200-185958/9	2.5	2.482655	1.25	2491665.0	0.993062	Y
6	IC 200-185958/10	10.0	9.356046	1.25	2229691.0	0.935605	Y



Calibration

/ 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

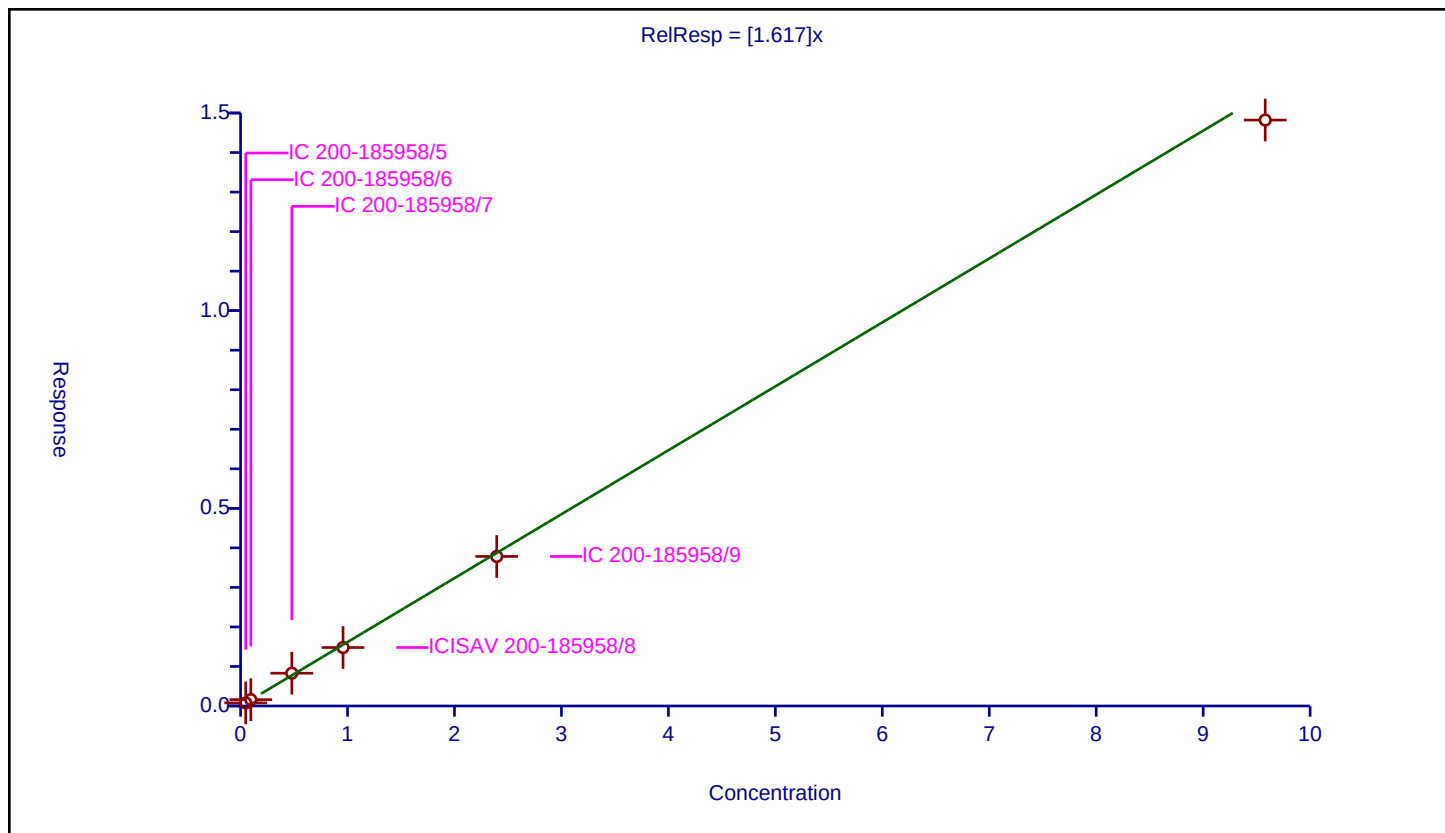
Curve Coefficients

Intercept: 0
Slope: 1.617

Error Coefficients

Standard Error: 1610000
Relative Standard Error: 4.6
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0479	0.07804	1.1975	306939.0	1.629233	Y
2	IC 200-185958/6	0.0958	0.159992	1.1975	307241.0	1.670065	Y
3	IC 200-185958/7	0.479	0.829647	1.1975	321045.0	1.732039	Y
4	ICISAV 200-185958/8	0.958	1.479261	1.1975	300249.0	1.544114	Y
5	IC 200-185958/9	2.395	3.782944	1.1975	321188.0	1.579517	Y
6	IC 200-185958/10	9.58	14.82207	1.1975	277266.0	1.547189	Y



Calibration

/ Perfluorooctanesulfonamide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

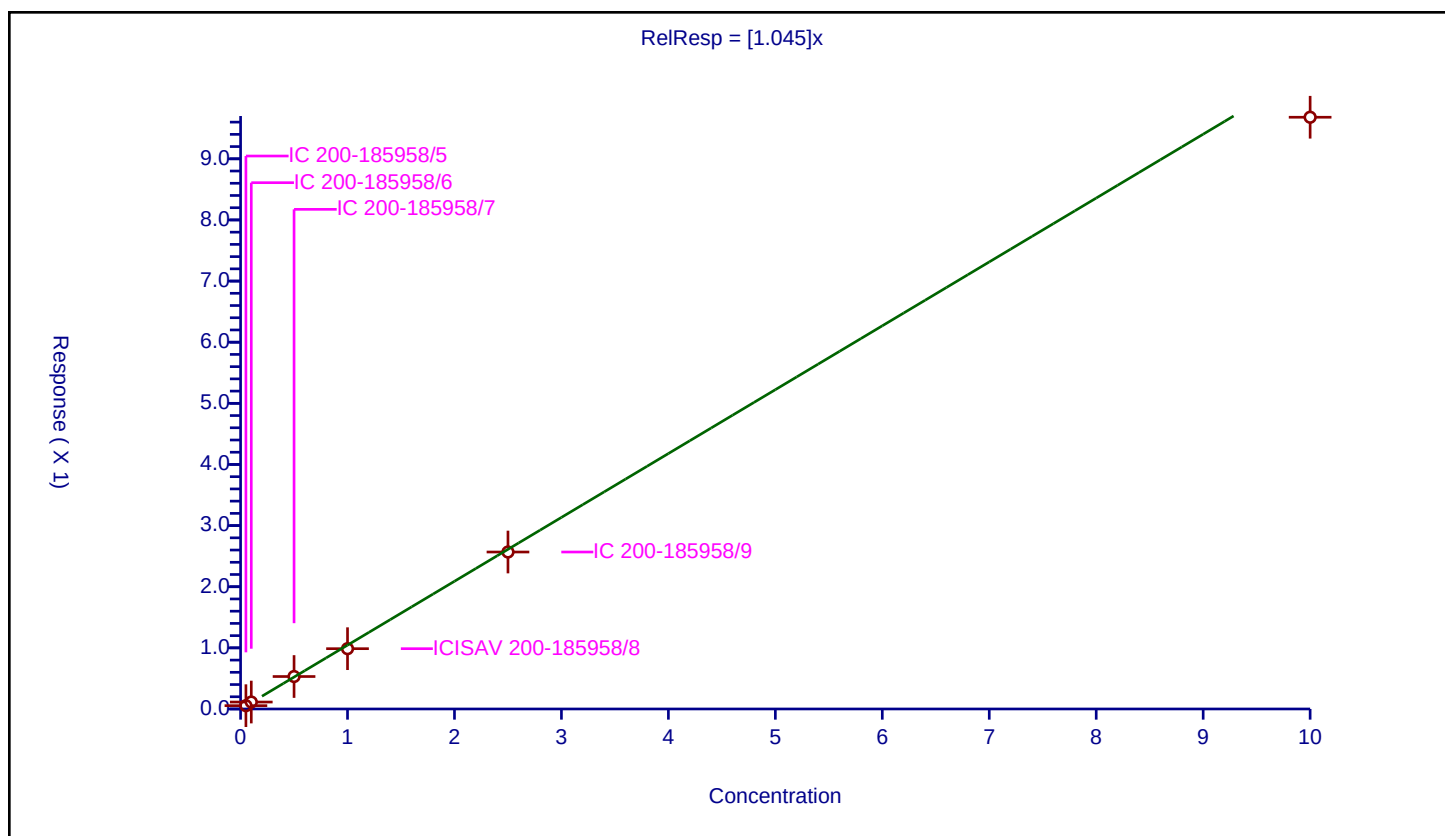
Curve Coefficients

Intercept: 0
 Slope: 1.045

Error Coefficients

Standard Error: 6920000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.054343	1.25	1923900.0	1.086868	Y
2	IC 200-185958/6	0.1	0.113824	1.25	1899612.0	1.138239	Y
3	IC 200-185958/7	0.5	0.53088	1.25	1967036.0	1.06176	Y
4	ICISAV 200-185958/8	1.0	0.986482	1.25	1879604.0	0.986482	Y
5	IC 200-185958/9	2.5	2.567614	1.25	1993351.0	1.027045	Y
6	IC 200-185958/10	10.0	9.680002	1.25	1914897.0	0.968	Y



Calibration

/ N-methylperfluorooctanesulfonamidoacetic acid

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

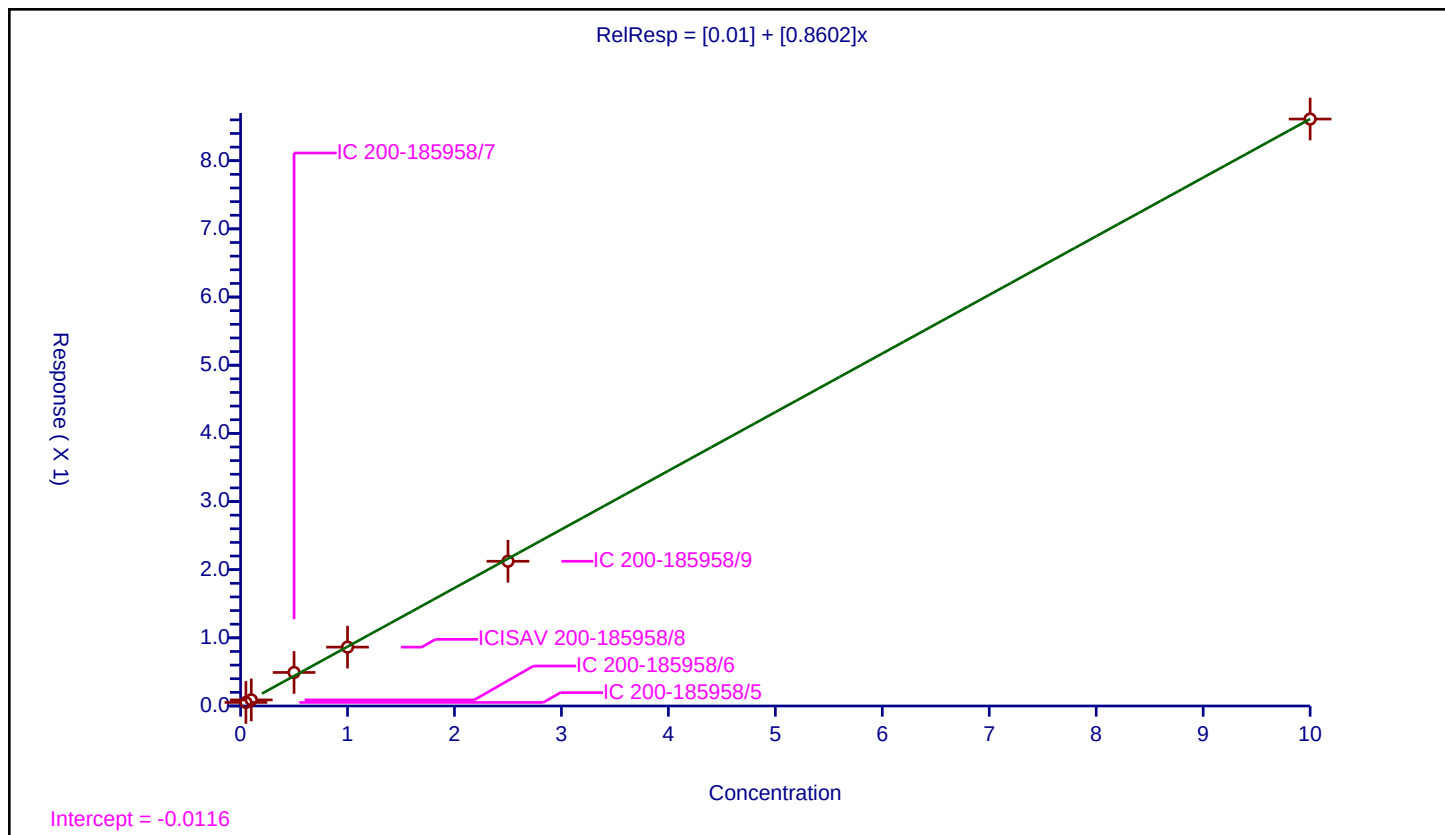
Curve Coefficients

Intercept: 0.01
 Slope: 0.8602

Error Coefficients

Standard Error: 1720000
 Relative Standard Error: 7.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.052273	1.25	467975.0	1.045462	Y
2	IC 200-185958/6	0.1	0.089246	1.25	478399.0	0.892456	Y
3	IC 200-185958/7	0.5	0.492116	1.25	466044.0	0.984231	Y
4	ICISAV 200-185958/8	1.0	0.863805	1.25	470154.0	0.863805	Y
5	IC 200-185958/9	2.5	2.12358	1.25	514239.0	0.849432	Y
6	IC 200-185958/10	10.0	8.611447	1.25	478582.0	0.861145	Y



Calibration

/ Perfluorodecanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

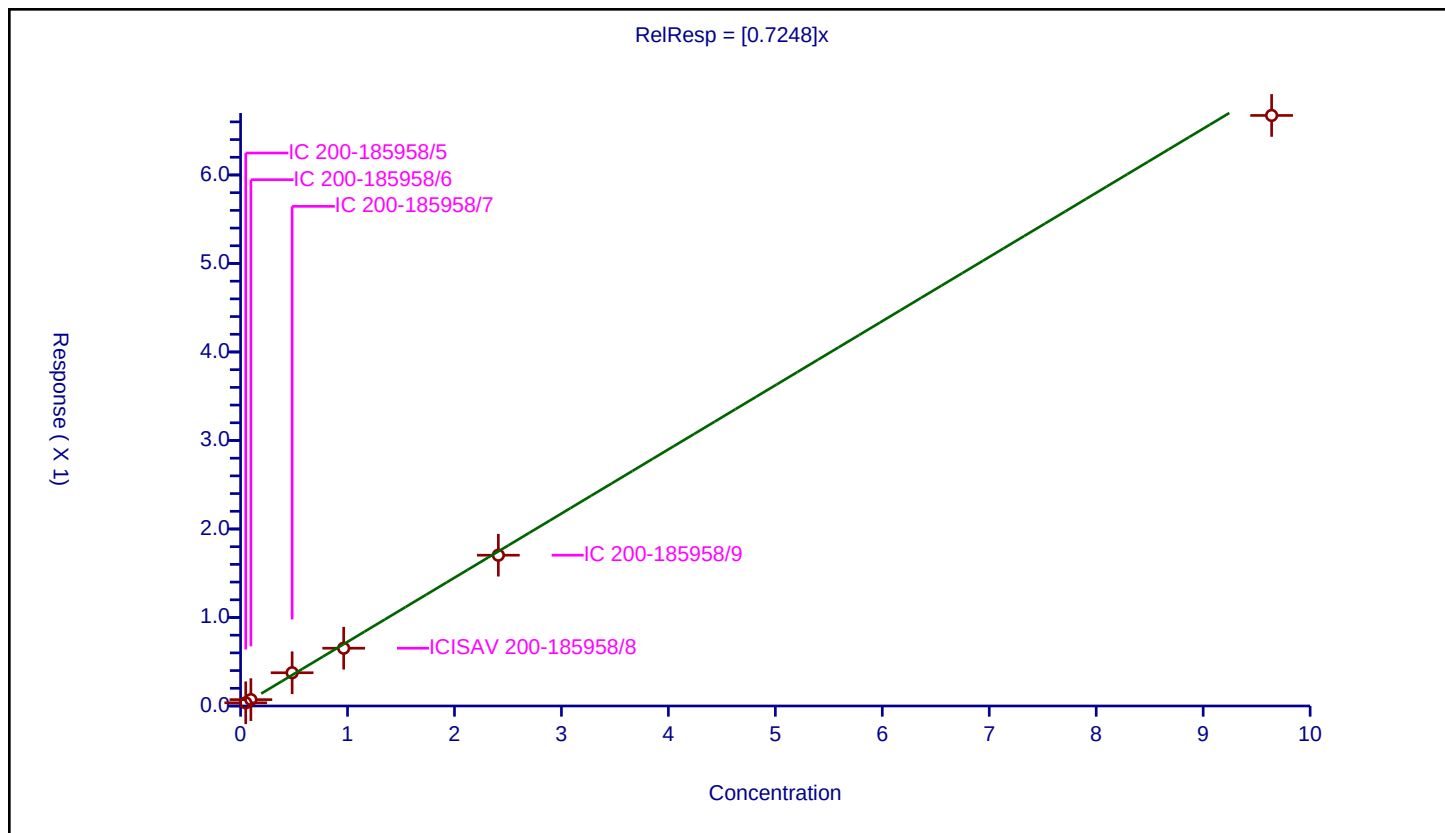
Curve Coefficients

Intercept: 0
 Slope: 0.7248

Error Coefficients

Standard Error: 2590000
 Relative Standard Error: 5.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0482	0.036026	1.195	989045.0	0.747427	Y
2	IC 200-185958/6	0.0964	0.071876	1.195	1010315.0	0.745605	Y
3	IC 200-185958/7	0.482	0.375663	1.195	1035061.0	0.779383	Y
4	ICISAV 200-185958/8	0.964	0.652643	1.195	967441.0	0.677016	Y
5	IC 200-185958/9	2.41	1.703873	1.195	1049764.0	0.707001	Y
6	IC 200-185958/10	9.64	6.672602	1.195	993714.0	0.692179	Y



Calibration

/ Perfluoroundecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

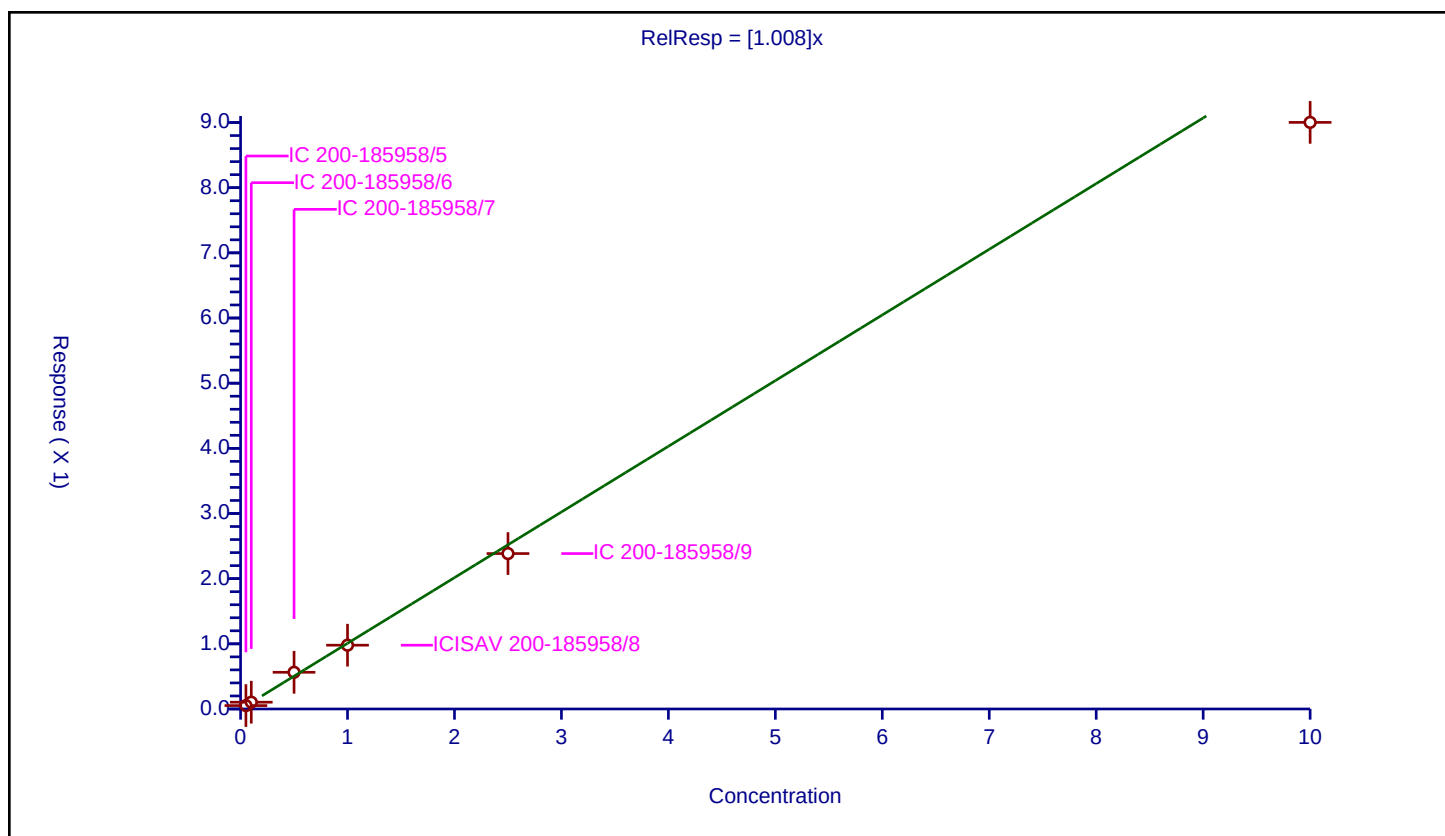
Curve Coefficients

Intercept: 0
Slope: 1.008

Error Coefficients

Standard Error: 6680000
Relative Standard Error: 7.9
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.052323	1.25	2191050.0	1.04645	Y
2	IC 200-185958/6	0.1	0.104069	1.25	2119319.0	1.040688	Y
3	IC 200-185958/7	0.5	0.563221	1.25	2230172.0	1.126441	Y
4	ICISAV 200-185958/8	1.0	0.97893	1.25	2183949.0	0.97893	Y
5	IC 200-185958/9	2.5	2.385205	1.25	2259671.0	0.954082	Y
6	IC 200-185958/10	10.0	9.002235	1.25	1967361.0	0.900224	Y



Calibration

/ N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

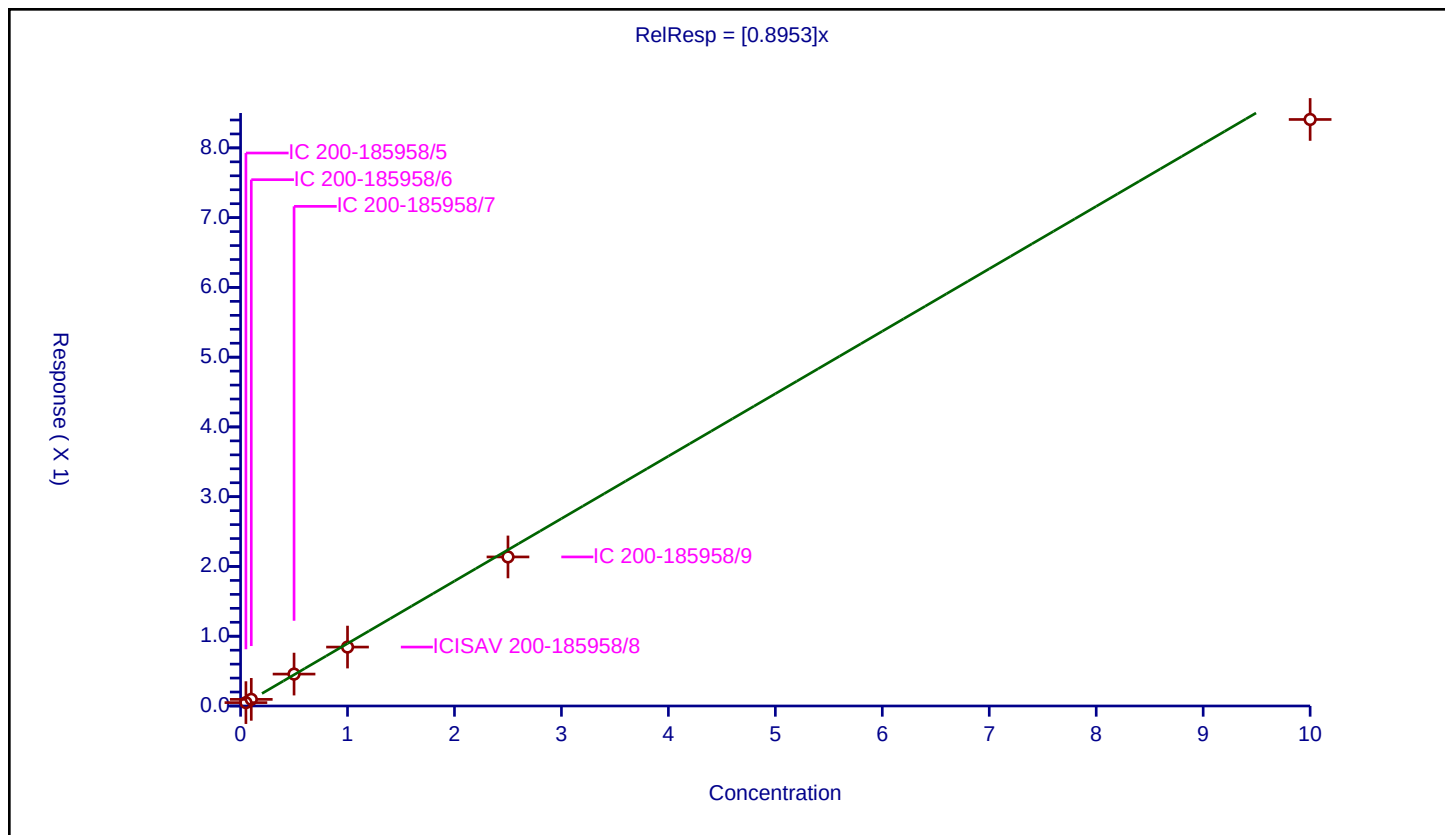
Curve Coefficients

Intercept: 0
 Slope: 0.8953

Error Coefficients

Standard Error: 1400000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.048292	1.25	453643.0	0.965848	Y
2	IC 200-185958/6	0.1	0.095082	1.25	481823.0	0.950816	Y
3	IC 200-185958/7	0.5	0.457326	1.25	498173.0	0.914652	Y
4	ICISAV 200-185958/8	1.0	0.844741	1.25	460360.0	0.844741	Y
5	IC 200-185958/9	2.5	2.136762	1.25	496655.0	0.854705	Y
6	IC 200-185958/10	10.0	8.407446	1.25	444955.0	0.840745	Y



Calibration

/ 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

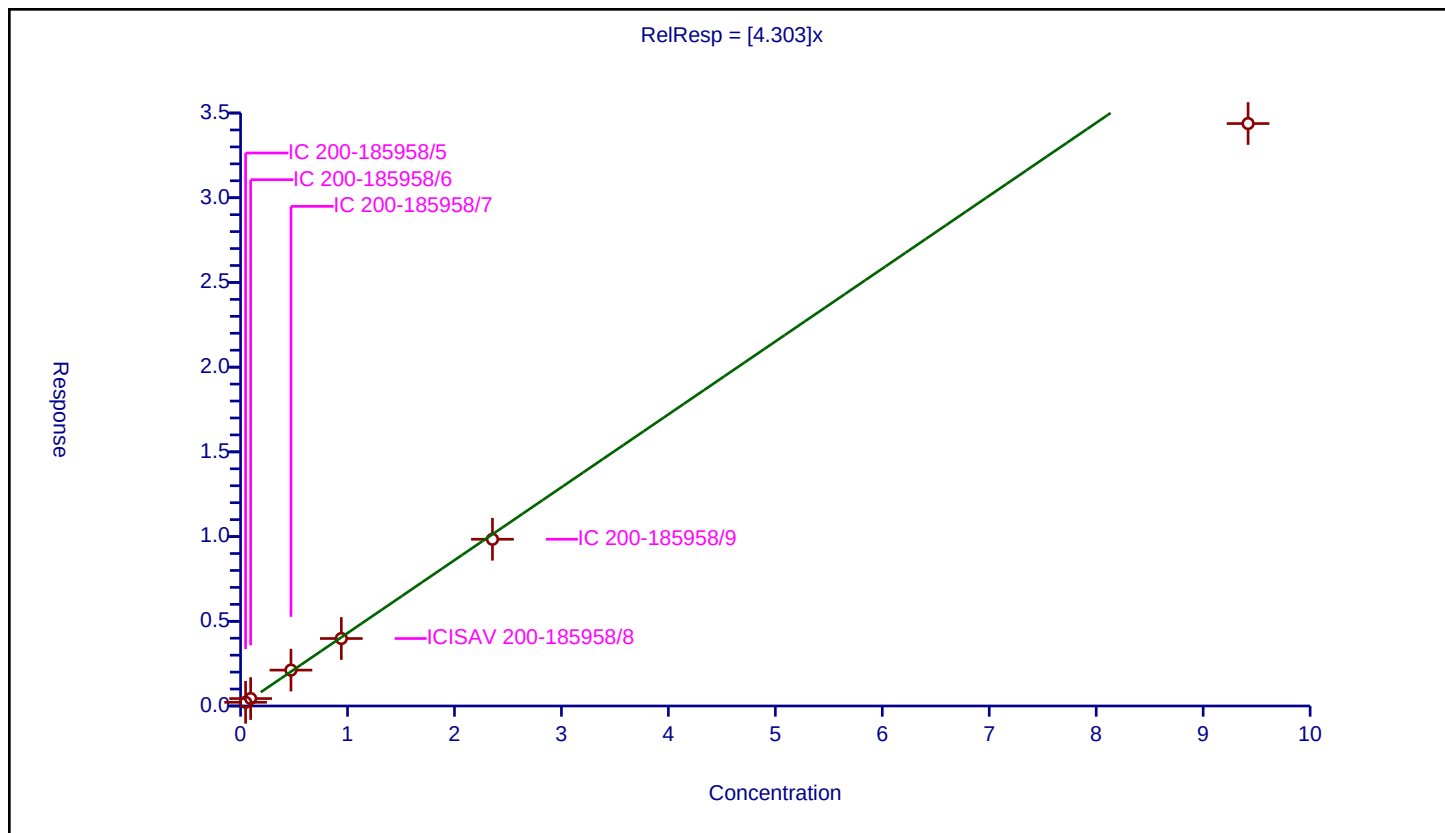
Curve Coefficients

Intercept: 0
 Slope: 4.303

Error Coefficients

Standard Error: 13500000
 Relative Standard Error: 8.7
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0471	0.217404	1.195	989045.0	4.615796	Y
2	IC 200-185958/6	0.0942	0.437852	1.195	1010315.0	4.648113	Y
3	IC 200-185958/7	0.471	2.1174	1.195	1035061.0	4.495542	Y
4	ICISAV 200-185958/8	0.942	3.982746	1.195	967441.0	4.227968	Y
5	IC 200-185958/9	2.355	9.840794	1.195	1049764.0	4.178681	Y
6	IC 200-185958/10	9.42	34.378522	1.195	993714.0	3.649525	Y



Calibration

/ Perfluorododecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

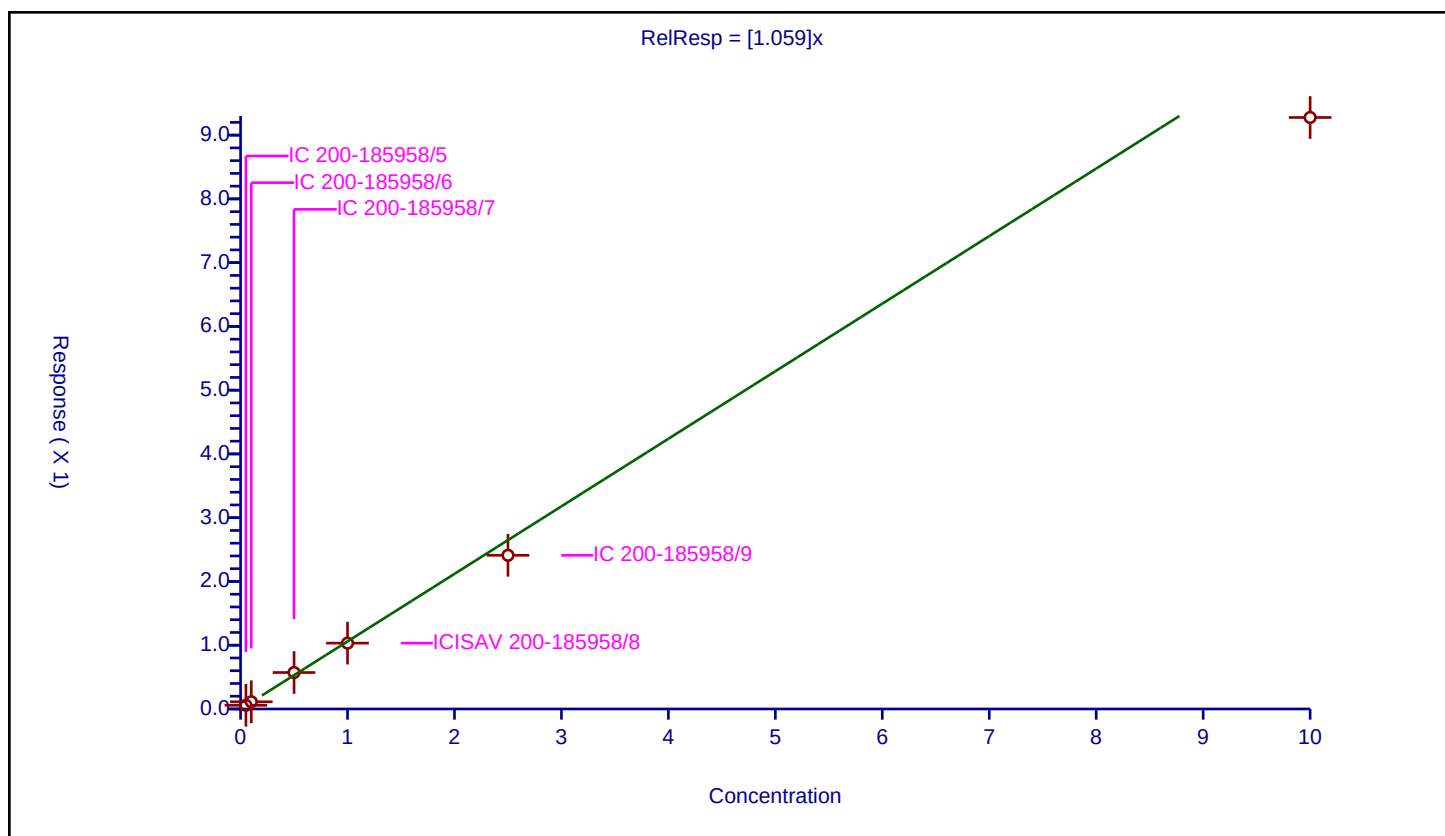
Curve Coefficients

Intercept: 0
 Slope: 1.059

Error Coefficients

Standard Error: 7330000
 Relative Standard Error: 9.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057802	1.25	2180352.0	1.15604	Y
2	IC 200-185958/6	0.1	0.11325	1.25	2150435.0	1.132498	Y
3	IC 200-185958/7	0.5	0.571786	1.25	2245926.0	1.143573	Y
4	ICISAV 200-185958/8	1.0	1.032719	1.25	2161023.0	1.032719	Y
5	IC 200-185958/9	2.5	2.410578	1.25	2344331.0	0.964231	Y
6	IC 200-185958/10	10.0	9.277066	1.25	2103698.0	0.927707	Y



Calibration

/ 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

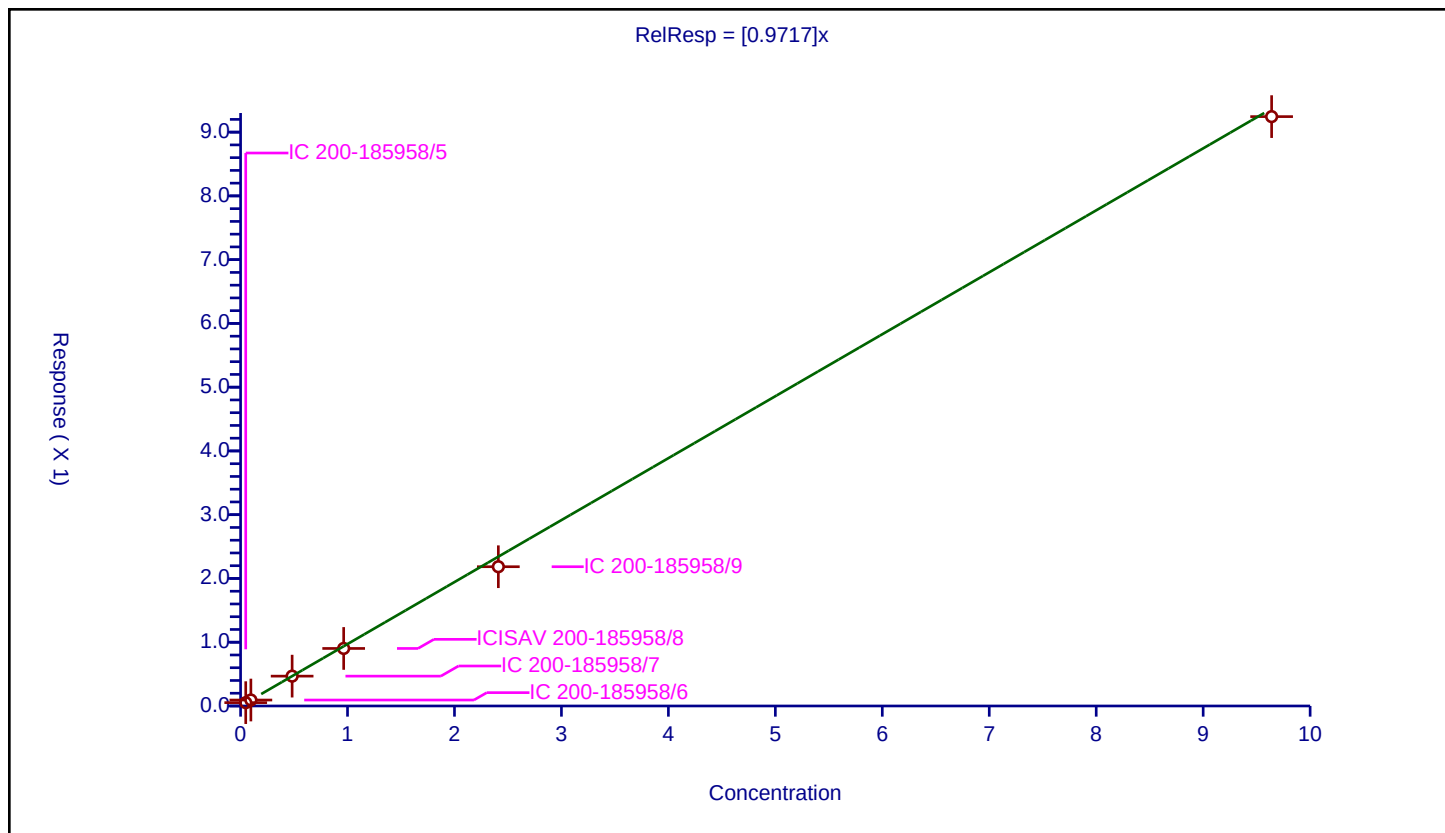
Curve Coefficients

Intercept: 0
 Slope: 0.9717

Error Coefficients

Standard Error: 999000
 Relative Standard Error: 6.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0482	0.052377	1.1975	306939.0	1.086653	Y
2	IC 200-185958/6	0.0964	0.093562	1.1975	307241.0	0.970557	Y
3	IC 200-185958/7	0.482	0.468291	1.1975	321045.0	0.971558	Y
4	ICISAV 200-185958/8	0.964	0.902429	1.1975	300249.0	0.93613	Y
5	IC 200-185958/9	2.41	2.184386	1.1975	321188.0	0.906384	Y
6	IC 200-185958/10	9.64	9.24351	1.1975	277266.0	0.95887	Y



Calibration

/ Perfluorododecanesulfonic acid (PFDoS)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

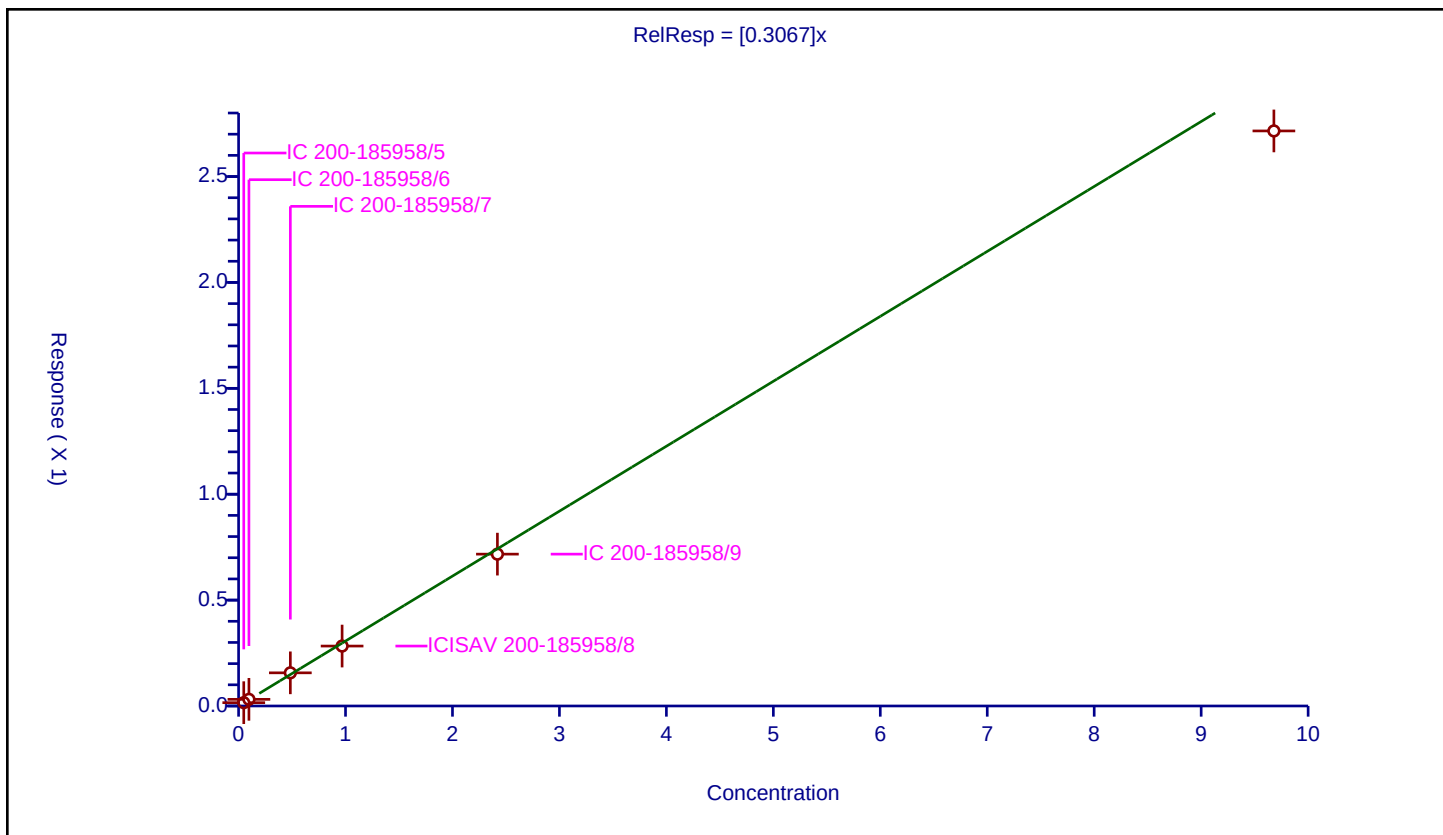
Curve Coefficients

Intercept: 0
Slope: 0.3067

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0484	0.015619	1.195	989045.0	0.322704	Y
2	IC 200-185958/6	0.0968	0.031406	1.195	1010315.0	0.324439	Y
3	IC 200-185958/7	0.484	0.156619	1.195	1035061.0	0.323593	Y
4	ICISAV 200-185958/8	0.968	0.283004	1.195	967441.0	0.29236	Y
5	IC 200-185958/9	2.42	0.717039	1.195	1049764.0	0.296297	Y
6	IC 200-185958/10	9.68	2.715386	1.195	993714.0	0.280515	Y



Calibration

/ Perfluorotridecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

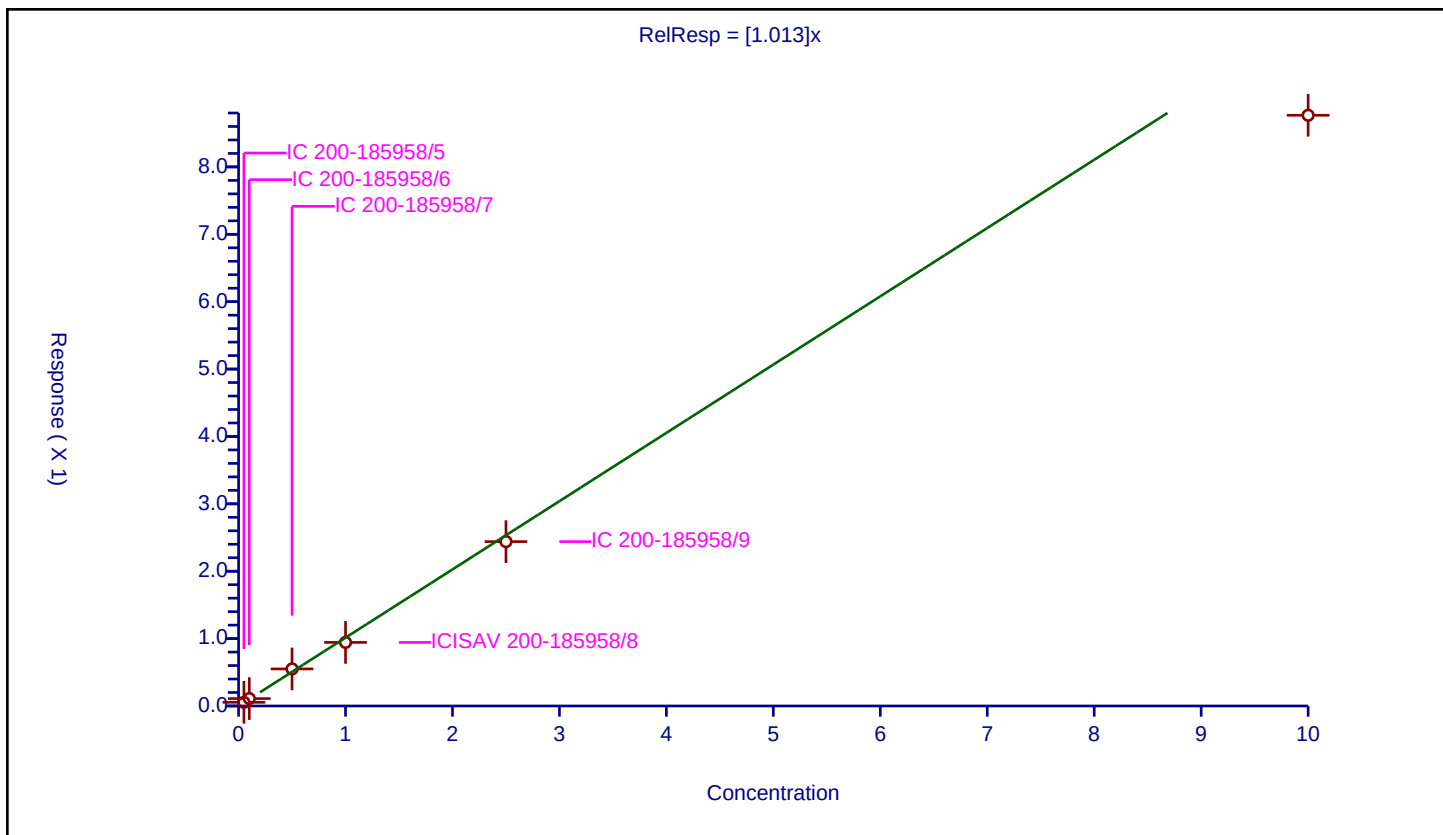
Curve Coefficients

Intercept: 0
 Slope: 1.013

Error Coefficients

Standard Error: 6960000
 Relative Standard Error: 9.3
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.05424	1.25	2180352.0	1.084802	Y
2	IC 200-185958/6	0.1	0.109896	1.25	2150435.0	1.098958	Y
3	IC 200-185958/7	0.5	0.549705	1.25	2245926.0	1.099411	Y
4	ICISAV 200-185958/8	1.0	0.943826	1.25	2161023.0	0.943826	Y
5	IC 200-185958/9	2.5	2.439331	1.25	2344331.0	0.975733	Y
6	IC 200-185958/10	10.0	8.7664	1.25	2103698.0	0.87664	Y



Calibration

/ Perfluorotetradecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

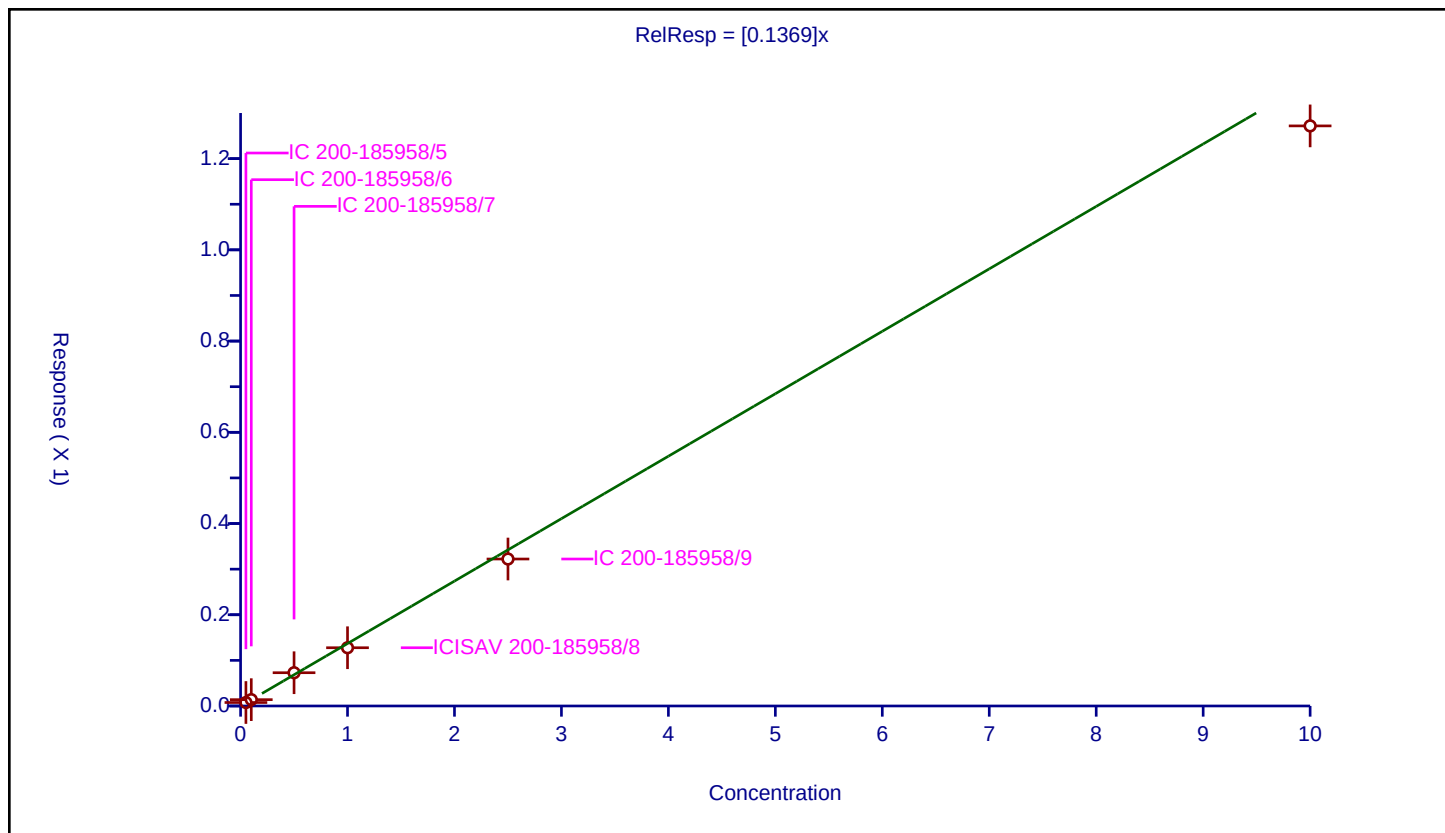
Curve Coefficients

Intercept: 0
 Slope: 0.1369

Error Coefficients

Standard Error: 849000
 Relative Standard Error: 7.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.007633	1.25	1883348.0	0.152654	Y
2	IC 200-185958/6	0.1	0.01391	1.25	1938056.0	0.139102	Y
3	IC 200-185958/7	0.5	0.072927	1.25	1947280.0	0.145853	Y
4	ICISAV 200-185958/8	1.0	0.127733	1.25	1844360.0	0.127733	Y
5	IC 200-185958/9	2.5	0.322232	1.25	2014799.0	0.128893	Y
6	IC 200-185958/10	10.0	1.271781	1.25	1782548.0	0.127178	Y



Calibration

/ Perfluorohexadecanoic acid

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

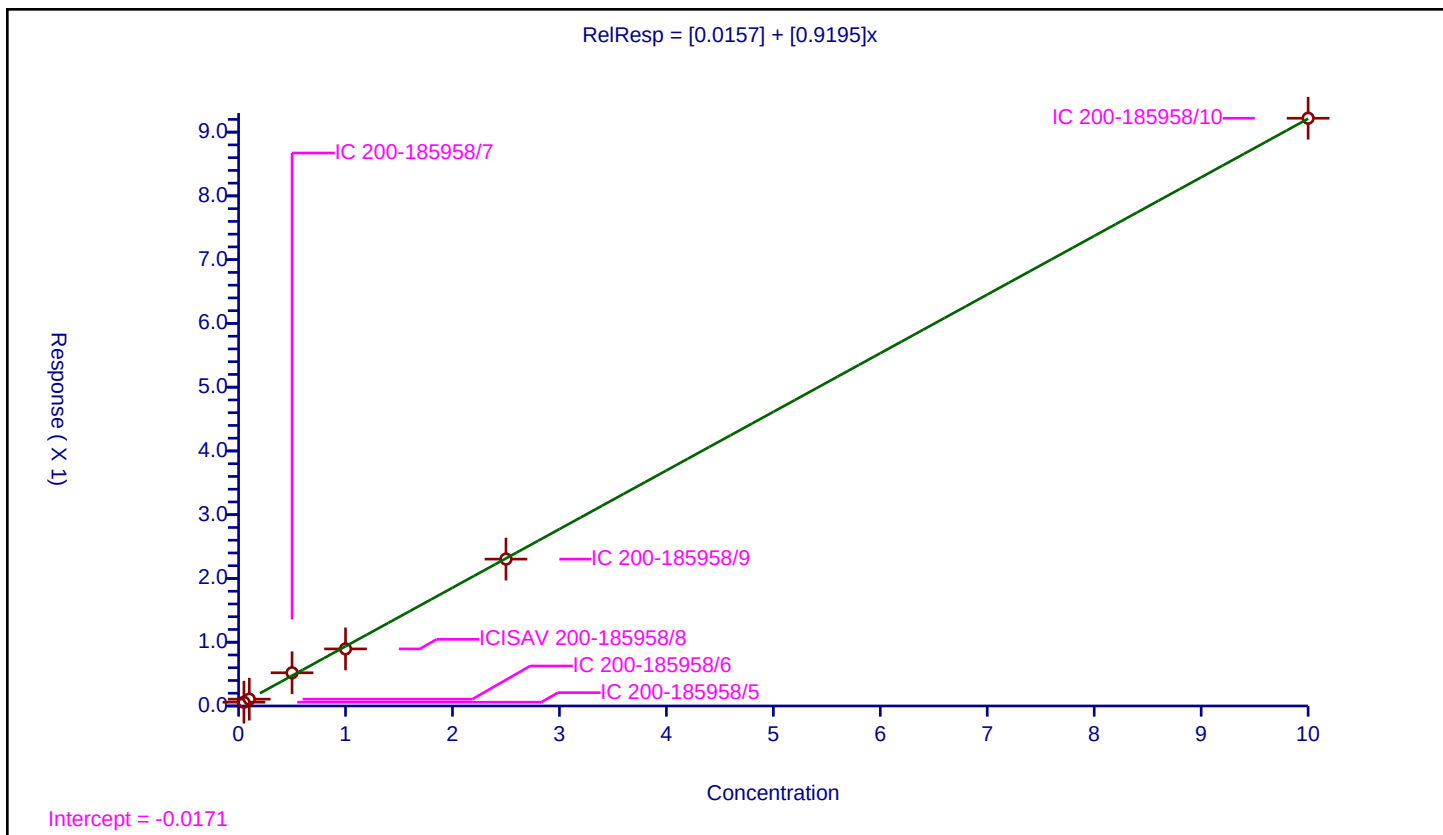
Curve Coefficients

Intercept: 0.0157
 Slope: 0.9195

Error Coefficients

Standard Error: 8460000
 Relative Standard Error: 5.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.059483	1.25	2380608.0	1.189665	Y
2	IC 200-185958/6	0.1	0.107268	1.25	2401907.0	1.072684	Y
3	IC 200-185958/7	0.5	0.521042	1.25	2348434.0	1.042085	Y
4	ICISAV 200-185958/8	1.0	0.895292	1.25	2280992.0	0.895292	Y
5	IC 200-185958/9	2.5	2.303983	1.25	2500657.0	0.921593	Y
6	IC 200-185958/10	10.0	9.21816	1.25	2191999.0	0.921816	Y



Calibration

/ Perfluorooctadecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

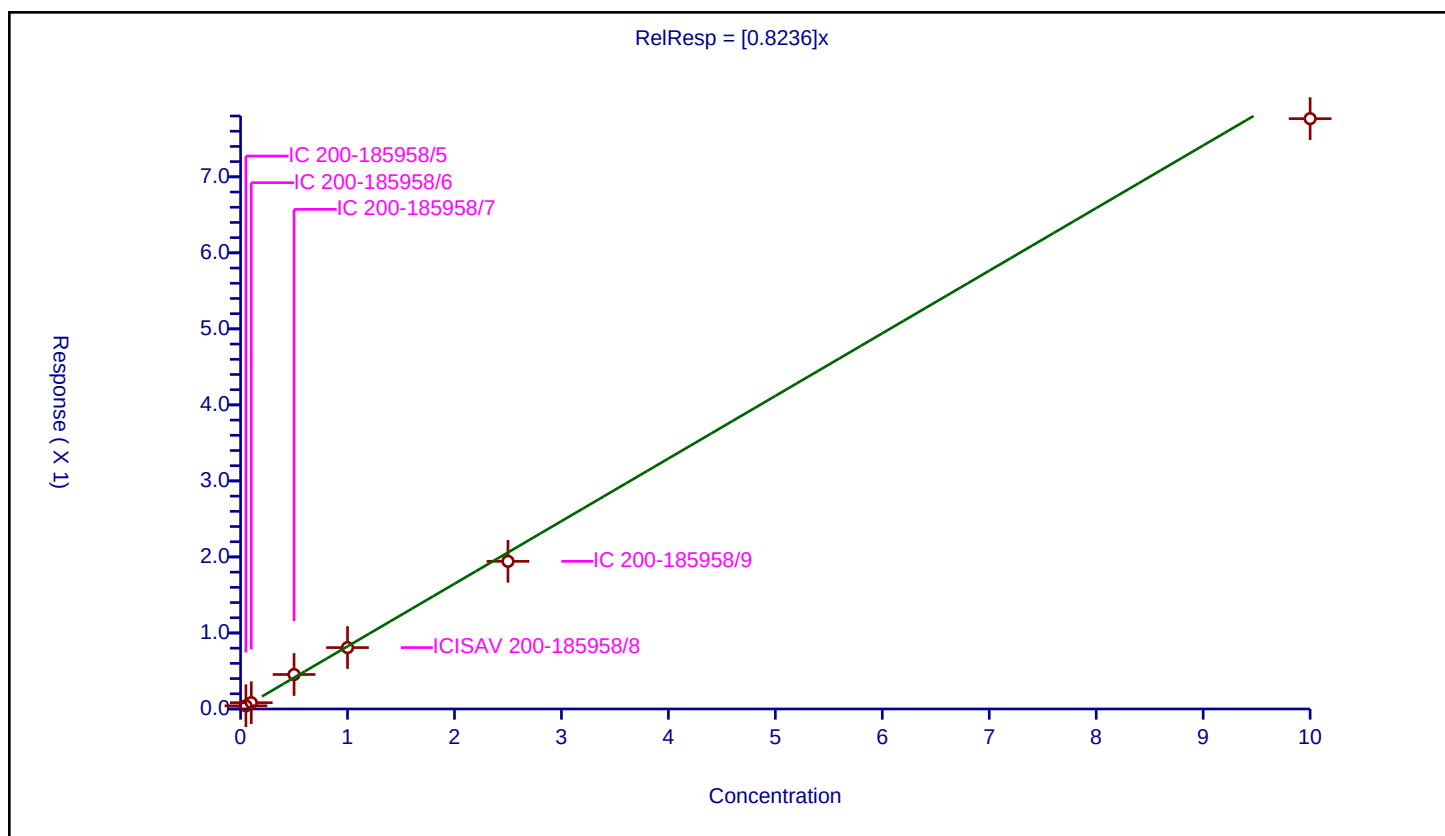
Curve Coefficients

Intercept: 0
Slope: 0.8236

Error Coefficients

Standard Error: 6380000
Relative Standard Error: 6.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.0422	1.25	2380608.0	0.843997	Y
2	IC 200-185958/6	0.1	0.082935	1.25	2401907.0	0.829346	Y
3	IC 200-185958/7	0.5	0.453549	1.25	2348434.0	0.907098	Y
4	ICISAV 200-185958/8	1.0	0.807566	1.25	2280992.0	0.807566	Y
5	IC 200-185958/9	2.5	1.942487	1.25	2500657.0	0.776995	Y
6	IC 200-185958/10	10.0	7.765225	1.25	2191999.0	0.776522	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Lab Sample ID: ICV 200-185958/12 Calibration Date: 11/18/2022 15:27

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221118ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.051		1.02	1.00	1.9	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.160		1.08	1.01	6.4	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.119		0.978	1.00	-2.2	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	3.259		1.06	1.00	5.8	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.094		1.01	1.01	0.4	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.467		1.10	1.00	9.8	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	1.116		1.07	1.01	5.7	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.181		1.06	1.01	4.6	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.047		0.962	1.00	-3.8	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.802		1.05	1.00	5.4	30.0
6:2 FTS	L1ID		2.267		1.06	1.00	6.1	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.443		1.03	1.00	3.3	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.093		1.02	1.00	2.3	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.026		0.852	1.01	-15.7	30.0
Perfluorononanoic acid (PFNA)	AveID	1.037	1.136		1.10	1.00	9.5	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.843		1.02	1.00	1.9	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.9153		1.01	1.01	-0.3	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.085		1.00	1.00	0.0	30.0
8:2 FTS	AveID	1.617	1.762		1.10	1.01	9.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	1.021		0.977	1.00	-2.3	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.9586		1.10	1.00	10.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.7477		1.04	1.01	3.2	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9695		0.962	1.00	-3.8	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.9331		1.04	1.00	4.2	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.451		1.04	1.00	3.5	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.035		0.977	1.00	-2.3	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.8818		0.875	0.964	-9.3	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2712		0.856	0.968	-11.6	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Lab Sample ID: ICV 200-185958/12 Calibration Date: 11/18/2022 15:27
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221118ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9240		0.912	1.00	-8.8	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1516		1.11	1.00	10.7	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8295		0.885	1.00	-11.5	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7059		0.857	1.00	-14.3	30.0
13C4 PFBA	Ave	1.122	0.9202		1.03	1.25	-18.0	50.0
13C5 PFPeA	Ave	0.8543	0.7101		1.04	1.25	-16.9	50.0
13C3 PFBS	Ave	0.9281	0.7971		0.998	1.16	-14.1	50.0
M2-4:2 FTS	Ave	0.0820	0.0686		0.977	1.17	-16.3	50.0
13C2 PFHxA	Ave	0.8951	0.7748		1.08	1.25	-13.4	50.0
13C3 HFPO-DA	Ave	0.1580	0.1330		1.05	1.25	-15.8	50.0
18O2 PFHxS	Ave	0.6761	0.5654		0.989	1.18	-16.4	50.0
13C4 PFHpA	Ave	0.9206	0.7694		1.05	1.25	-16.4	50.0
M2-6:2 FTS	Ave	0.1134	0.0945		0.989	1.19	-16.7	50.0
13C4 PFOA	Ave	1.035	0.8655		1.05	1.25	-16.4	50.0
13C4 PFOS	Ave	0.4588	0.3894		1.01	1.20	-15.1	50.0
13C5 PFNA	Ave	1.006	0.8541		1.06	1.25	-15.1	50.0
13C2 PFDA	Ave	1.025	0.9007		1.10	1.25	-12.1	50.0
M2-8:2 FTS	Ave	0.1387	0.1166		1.01	1.20	-16.0	50.0
13C8 FOSA	Ave	0.8403	0.7085		1.05	1.25	-15.7	50.0
d3-NMeFOSAA	Ave	0.2087	0.1754		1.05	1.25	-15.9	50.0
13C2 PFUnA	Ave	0.9385	0.7727		1.03	1.25	-17.7	50.0
d5-NEtFOSAA	Ave	0.2055	0.1778		1.08	1.25	-13.5	50.0
13C2 PFDoA	Ave	0.9562	0.8116		1.06	1.25	-15.1	50.0
13C2 PFTeDA	Ave	0.8270	0.7097		1.07	1.25	-14.2	50.0
13C2 PFHxDA	Ave	1.022	0.9092		1.11	1.25	-11.1	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Nov-2022 15:27:08 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0053396-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 21-Nov-2022 08:34:01 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: Z1IP Date: 18-Nov-2022 15:40:06

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										M
217.00 > 172.00	2.076	2.076	0.0	0.602	2670376	1.03		82.0	5679	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	2244563	1.02			201	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2060643	1.04		83.1	4220	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1931131	1.07			51.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2151403	1.00		85.9	366569	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	2070709	0.9780	Target=2.09		2506	M
298.90 > 99.00	2.400	2.400	0.0	1.000	975791		2.12(1.04-3.13)		774	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	519266	1.06			2152	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.783	186032	0.9770		83.7	221	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2248529	1.08		86.6	4586	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1986916	1.01	Target=14.25		367	M
313.00 > 119.00	2.725	2.725	0.0	1.000	140975		14.09(7.12-21.37)		245	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	1925334	1.10	Target=3.04		2369	M
349.00 > 99.00	2.737	2.737	0.0	0.887	614001		3.14(1.52-4.56)		1153	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	348107	1.07			2459	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	385915	1.05		84.2	3630	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1552107	0.9887		83.6	4490	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	1565688	1.06	Target=3.66		1350	M
399.00 > 99.00	3.088	3.088	0.0	1.000	416511		3.76(1.83-5.49)		495	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2232924	1.04		83.6	5810	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	1870498	0.9617	Target=3.97		389	
363.00 > 169.00	3.099	3.099	0.0	1.000	511272		3.66(1.98-5.95)		1195	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	5246009	1.05	Target=3.16		4174	
377.00 > 85.00	3.132	3.132	0.0	0.832	1647134		3.18(1.58-4.73)		2385	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	260442	0.9894		83.3	864	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	497227	1.06			1080	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.439	3.439	0.0	0.914	1304864	1.03	Target=5.14		2018	M
449.00 > 99.00	3.439	3.439	0.0	0.914	252176		5.17(2.57-7.72)		1072	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2511617	1.05		83.6	5014	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2902090	1.25			4497	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	2197145	1.02	Target=2.79		168	M
413.00 > 169.00	3.448	3.448	0.0	1.000	773803		2.84(1.40-4.19)		836	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1080464	1.01		84.9	3142	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.764	0.0	1.000	936613	0.8518	Target=5.11		242	M
499.00 > 99.00	3.764	3.764	0.0	1.000	204498		4.58(2.55-7.66)		186	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	2253063	1.10	Target=8.55		488	
463.00 > 169.00	3.783	3.783	0.0	1.000	255525		8.82(4.28-12.83)		1449	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2478667	1.06		84.9	10218	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	2570823	1.02			4667	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	835829	1.01	Target=2.53		3263	
549.00 > 99.00	4.061	4.050	0.011	1.079	326669		2.56(1.27-3.80)		1661	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2613997	1.10		87.9	7780	

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	4.081	4.081	0.0	1.000	2269026	1.00	Target=10.26		791	M
513.00 > 169.00	4.081	4.081	0.0	1.000	227346		9.98(5.13-15.38)		386	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	324039	1.01		84.0	1254	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	481604	1.10			1586	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1679557	0.9774			2056	
D 21 13C8 FOSA										M
506.00 > 78.00	4.150	4.150	0.0	1.204	2056044	1.05		84.3	1897	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	509127	1.05		84.1	760	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	390455	1.10			500	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	682801	1.04	Target=2.51		3633	
599.00 > 99.00	4.331	4.331	0.0	1.151	261561		2.61(1.25-3.76)		1945	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2242424	1.03		82.3	3383	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	1739241	0.9620	Target=9.88		468	M
563.00 > 169.00	4.353	4.353	0.0	1.000	177599		9.79(4.94-14.82)		266	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	385250	1.04			836	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	516078	1.08		86.5	1182	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	4024467	1.03			8552	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	1949526	0.9766	Target=7.77		130	M
613.00 > 169.00	4.602	4.591	0.011	1.002	268146		7.27(3.89-11.66)		673	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2355331	1.06		84.9	2733	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	230011	0.8748			916	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	237361	0.8561	Target=0.50		2013	M
699.00 > 99.00	4.776	4.776	0.0	1.269	476521		0.50(0.25-0.76)		3025	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	1741096	0.9120	Target=5.21		114	M
663.00 > 169.00	4.813	4.804	0.009	1.048	325181		5.35(2.60-7.81)		282	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	249797	1.11	Target=0.89		753	
713.00 > 219.00	5.002	5.012	-0.010	0.998	272856		0.92(0.44-1.33)		351	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.454	2059701	1.07		85.8	2818	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.002	1751027	0.8850	Target=5.65		151	M
813.00 > 169.00	5.378	5.367	0.011	1.002	292027		6.00(2.82-8.47)		1291	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.367	5.367	0.0	1.557	2638658	1.11		88.9	6236	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	1490002	0.8570	Target=6.24		142	M
913.00 > 169.00	5.722	5.722	0.0	1.066	233541		6.38(3.12-9.36)		710	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00012

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d

Injection Date: 18-Nov-2022 15:27:08

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

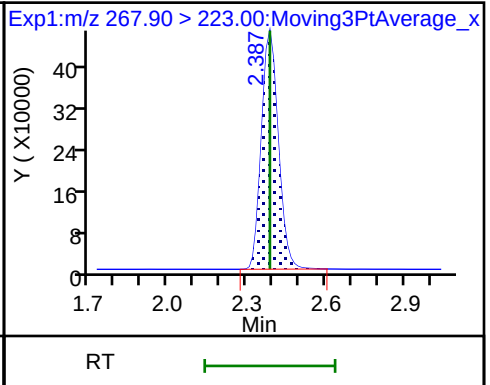
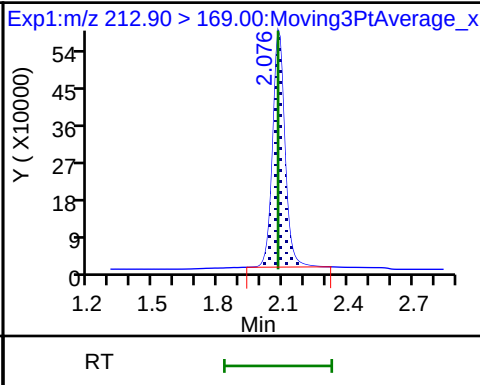
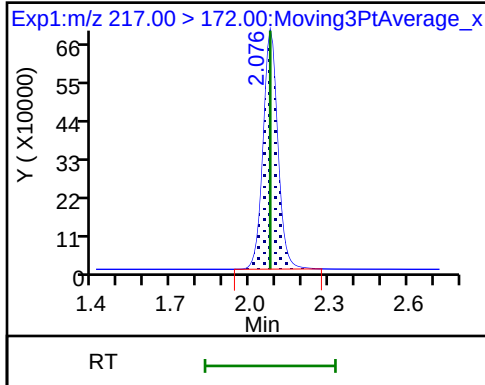
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

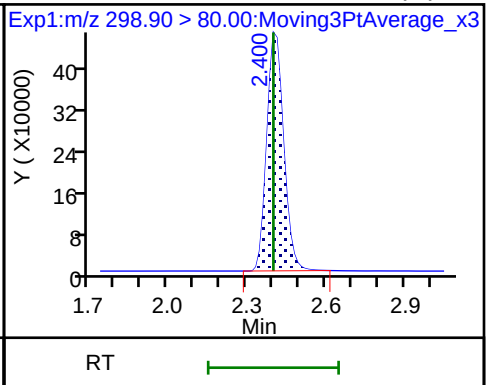
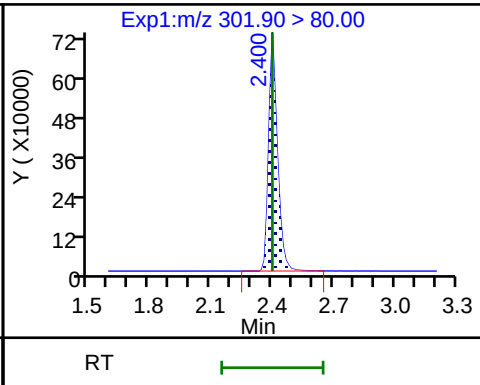
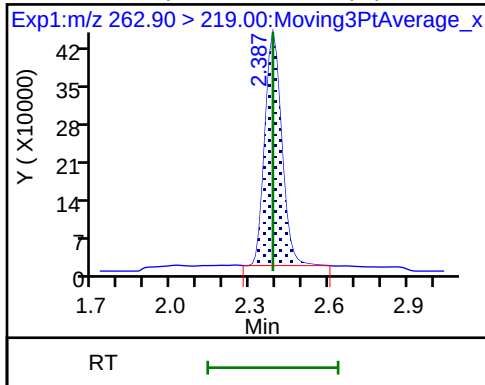
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

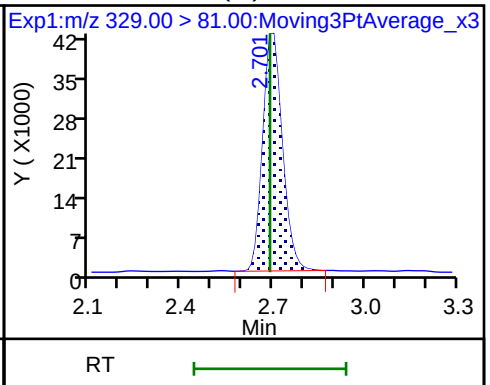
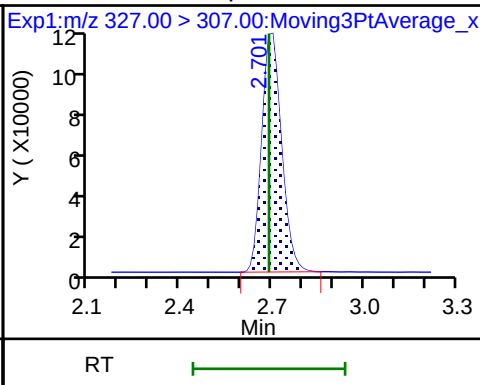
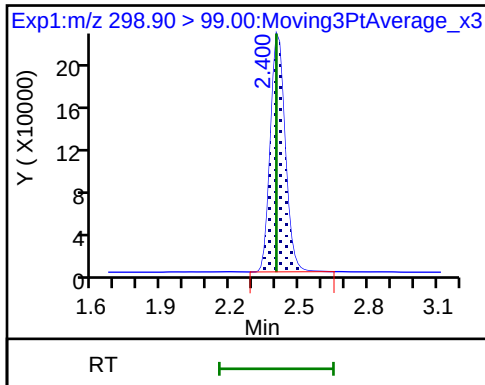
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

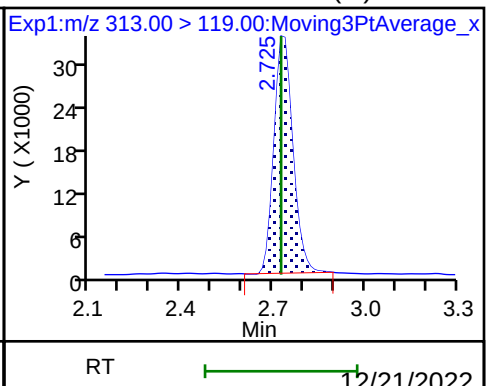
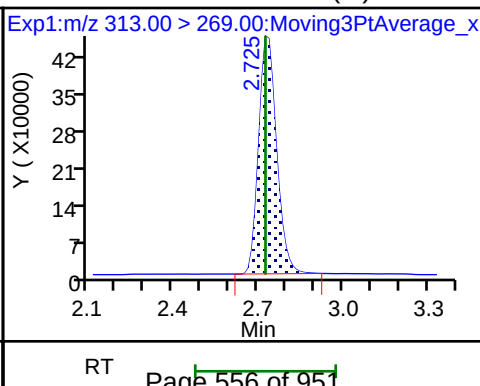
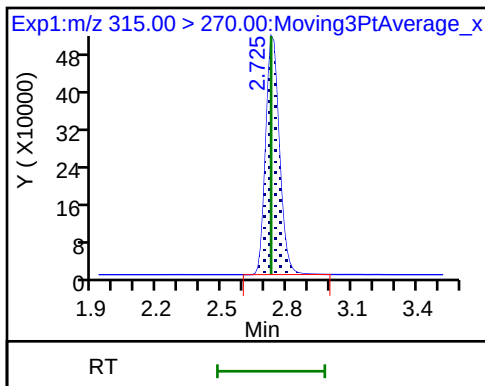
D 60 M2-4:2 FTS (M)

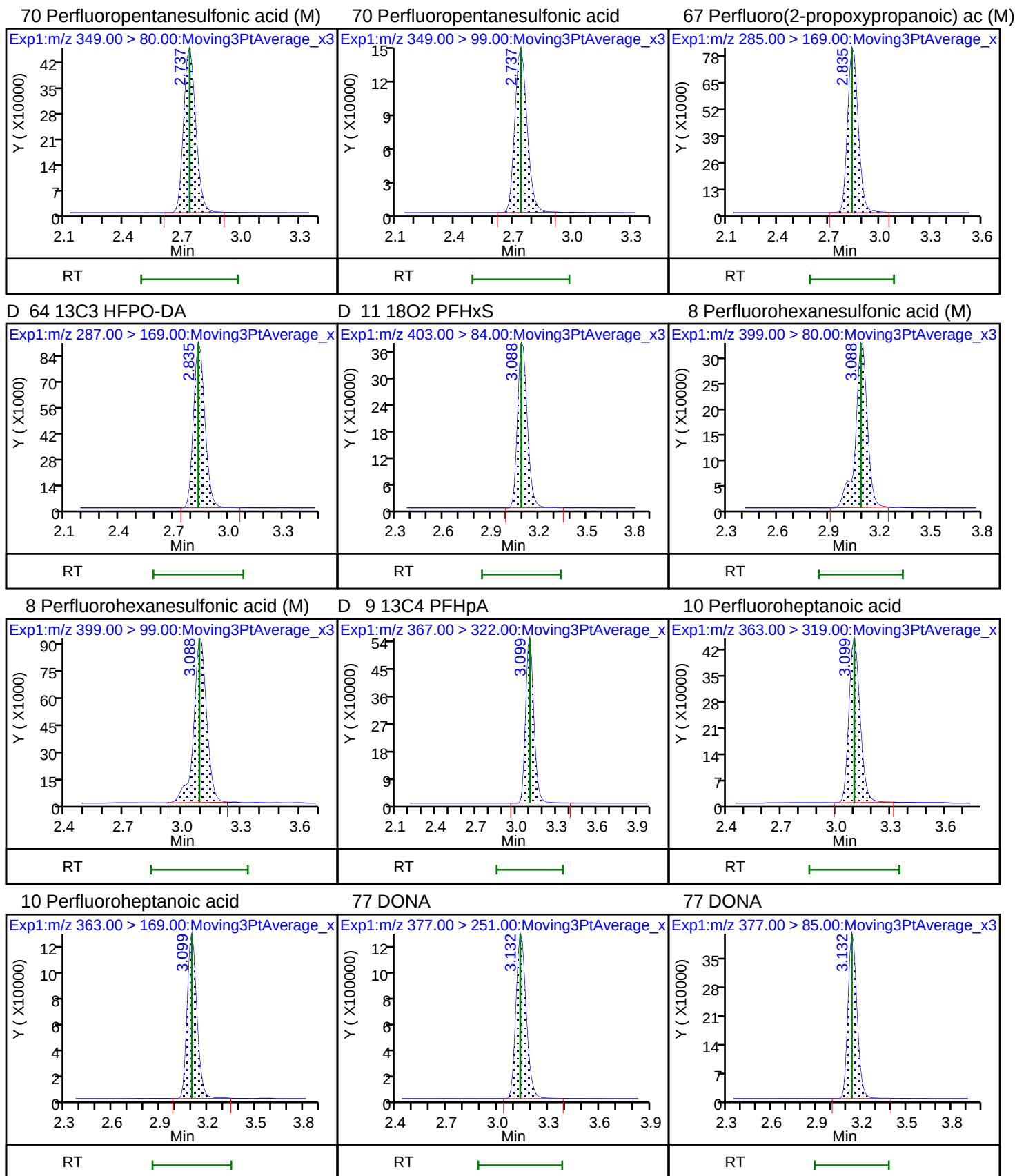


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

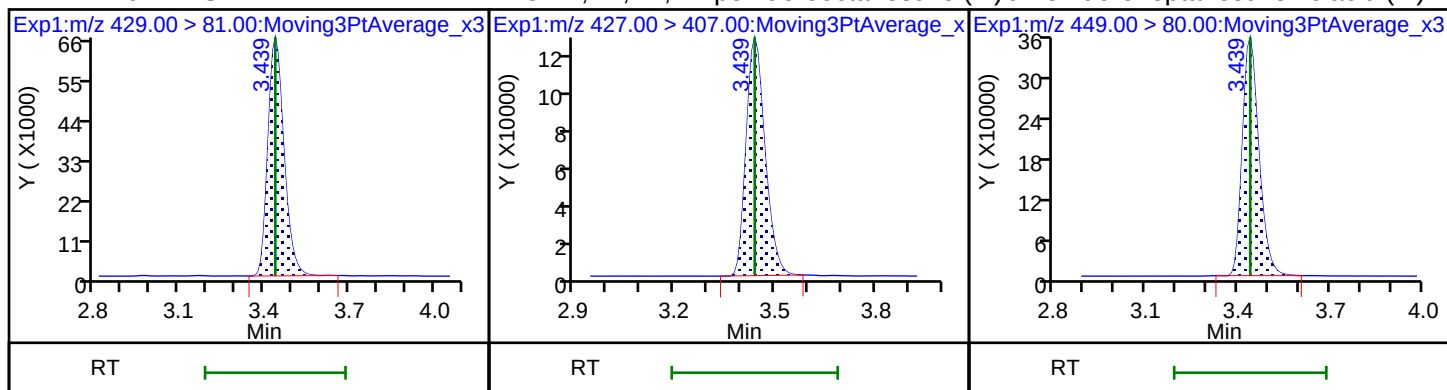
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

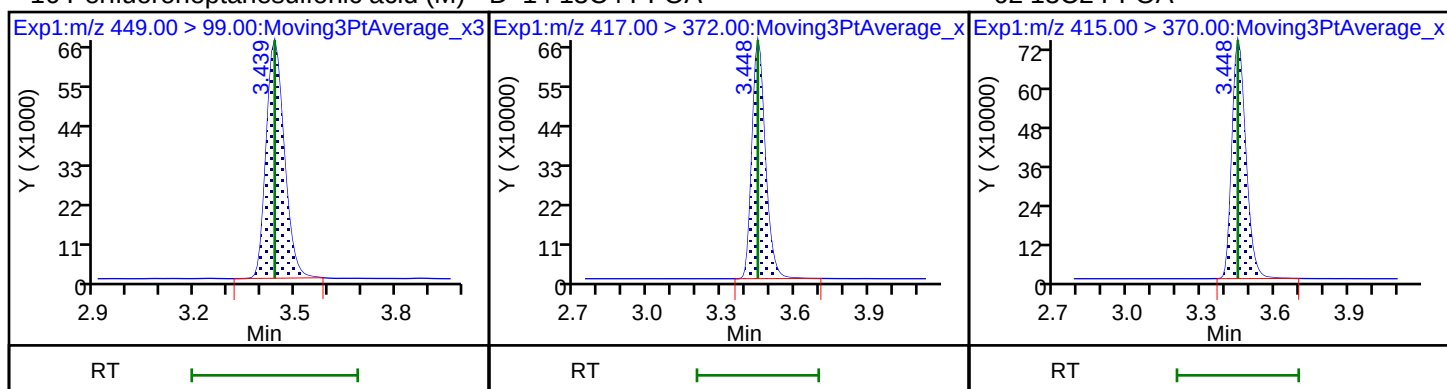
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

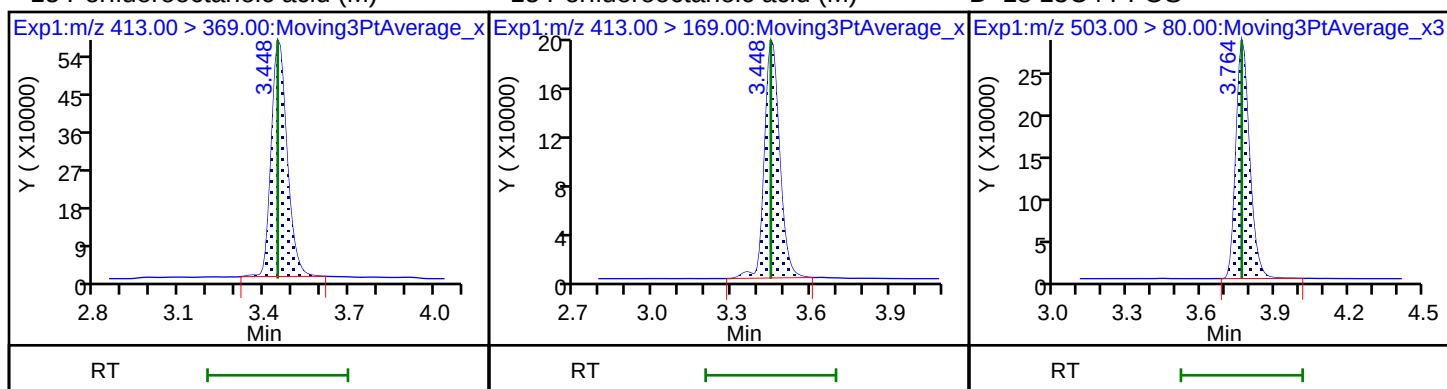
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

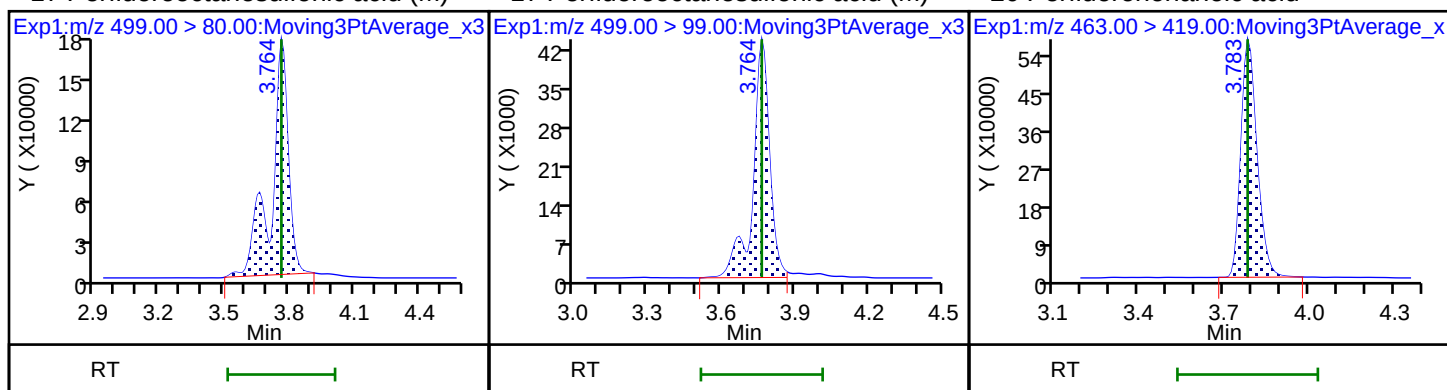
D 18 13C4 PFOS

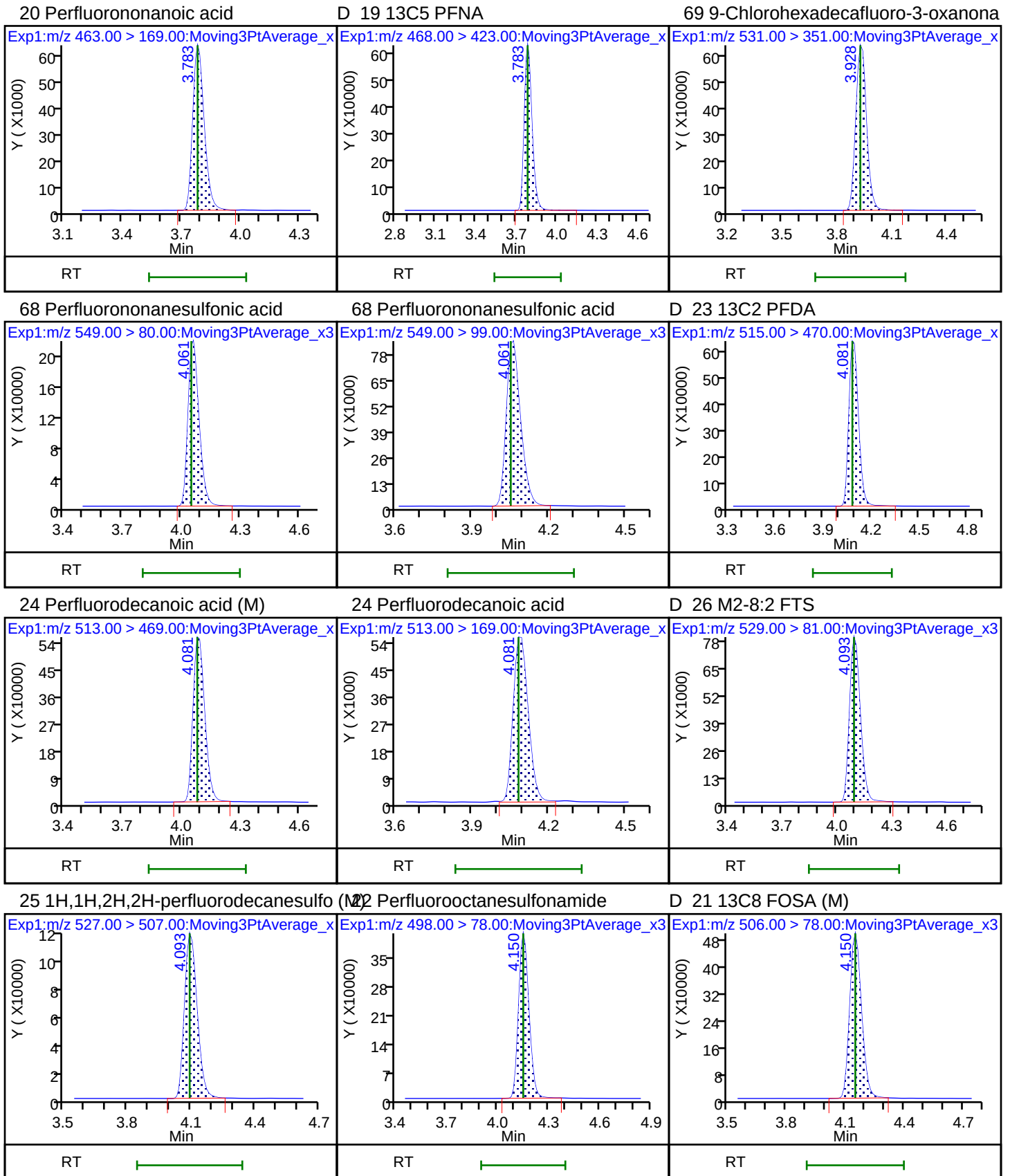


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

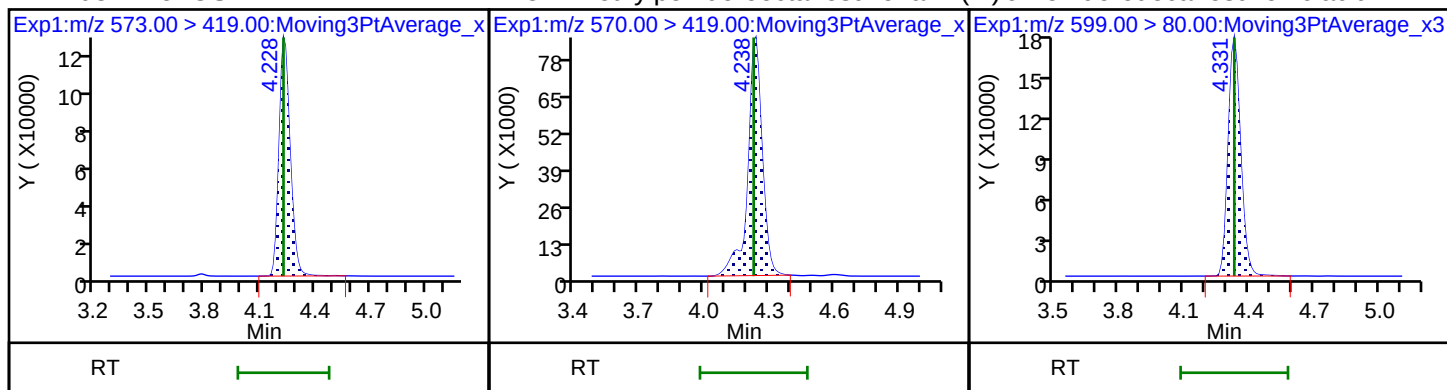
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

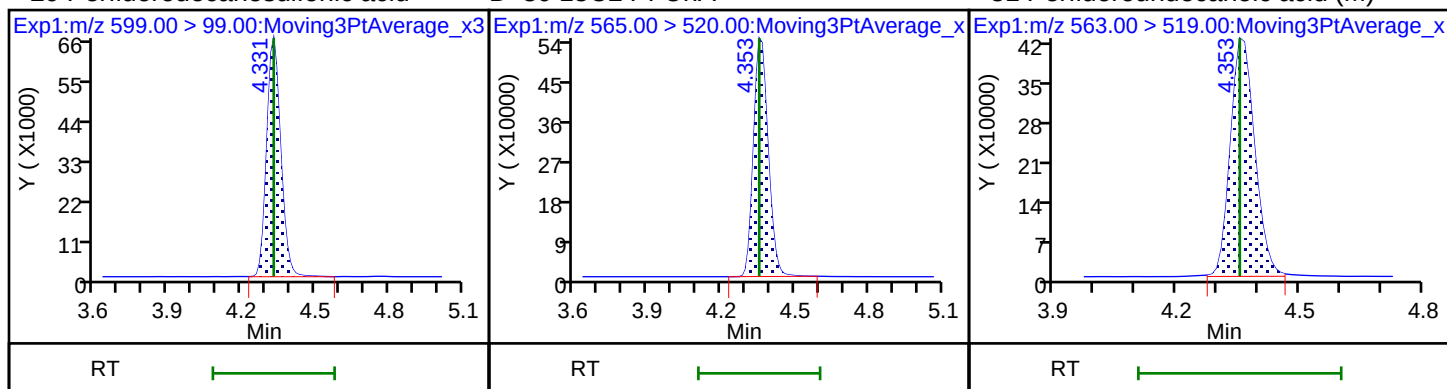
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

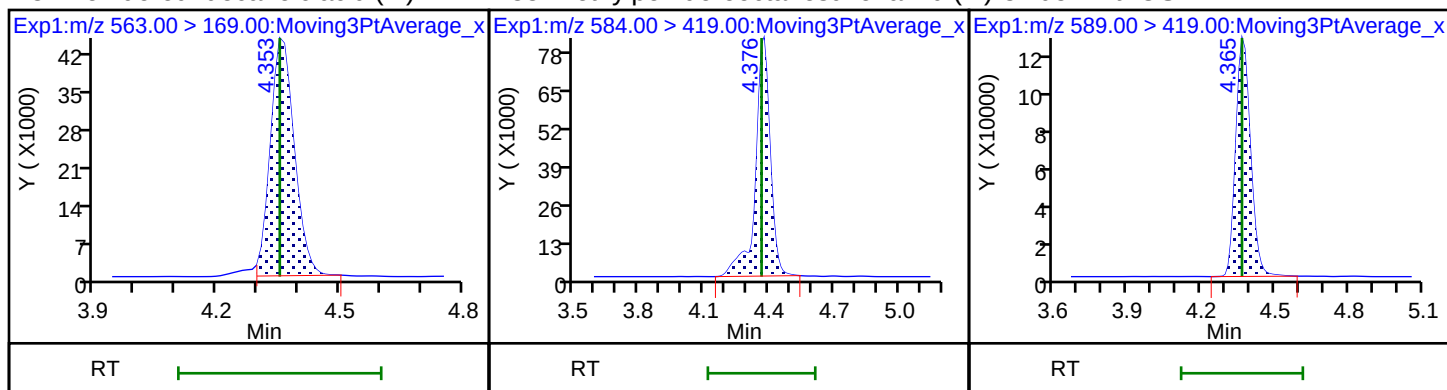
D 30 13C2 PFUa

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

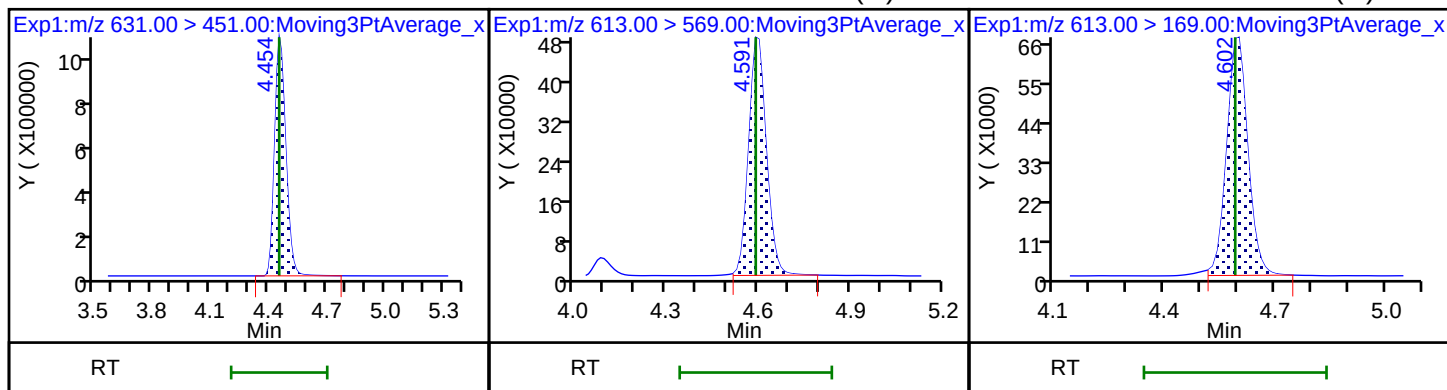
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

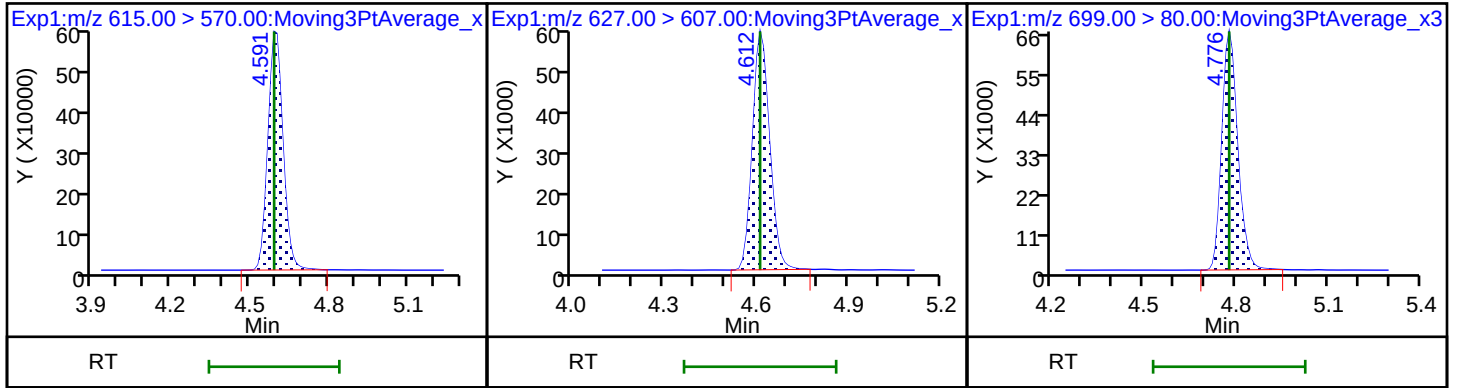
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

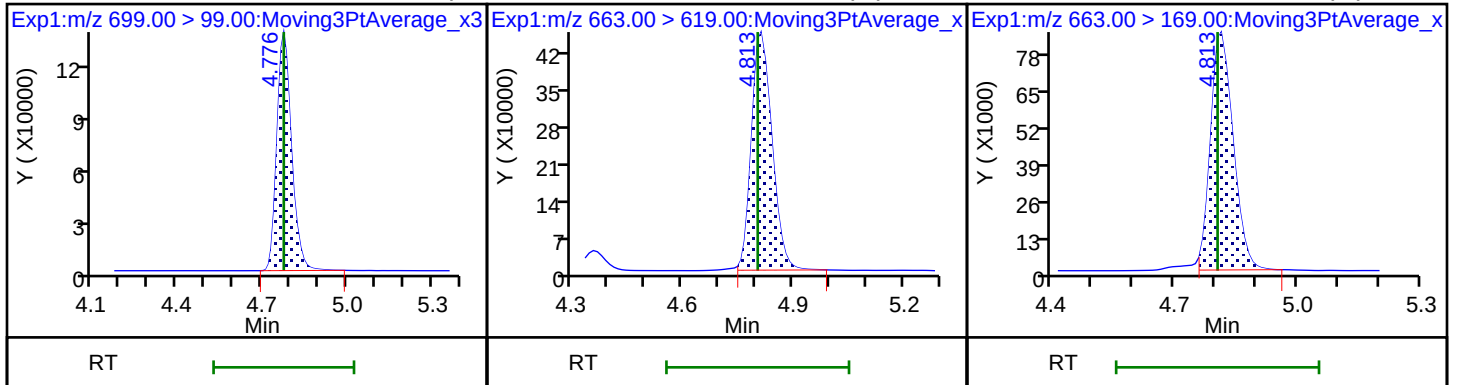
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

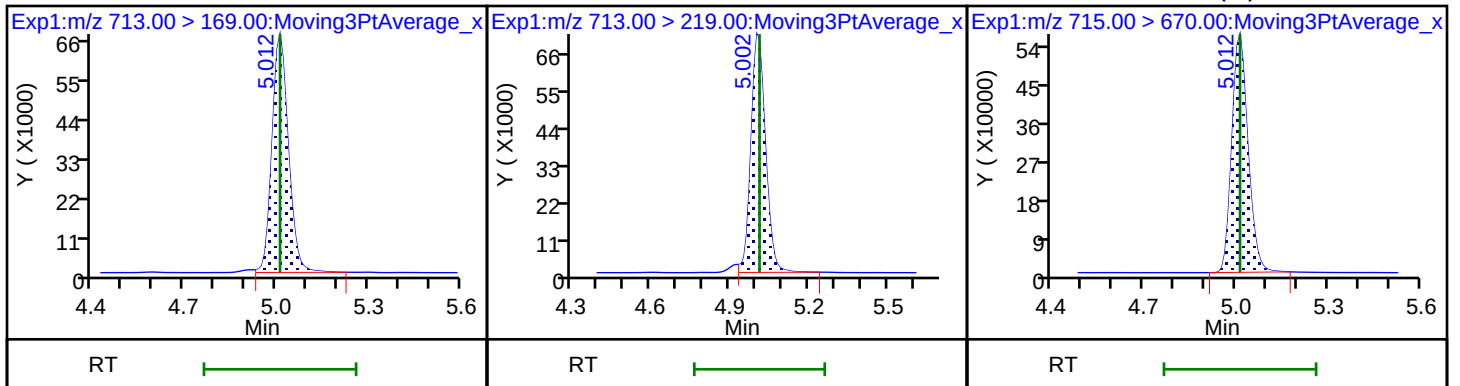
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

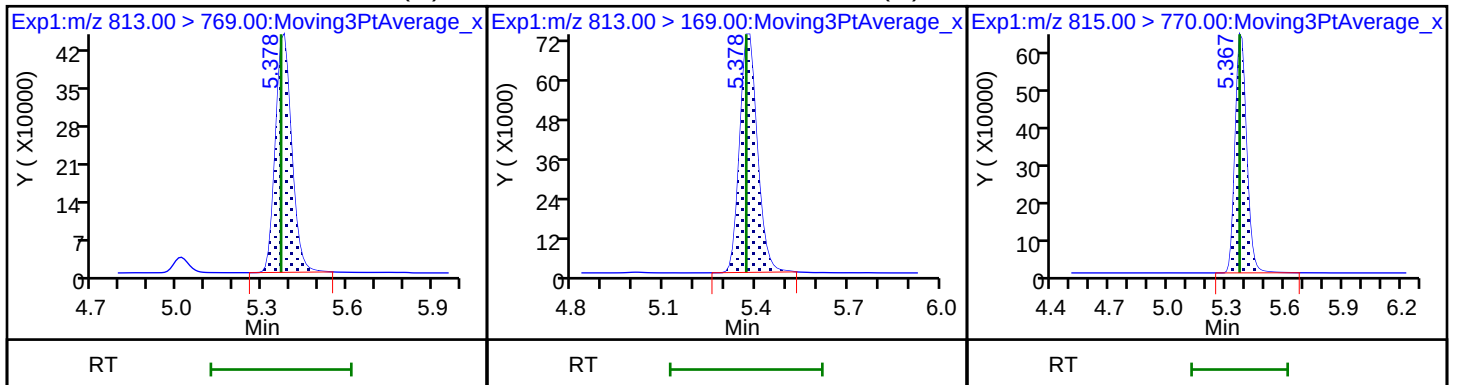
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid (M)

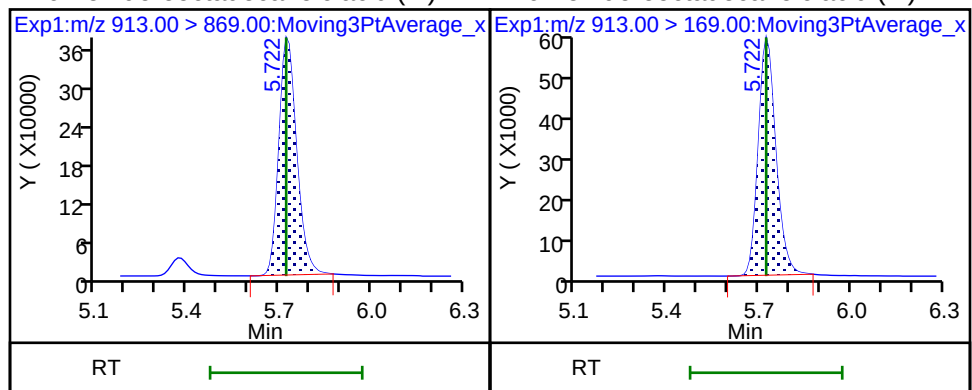
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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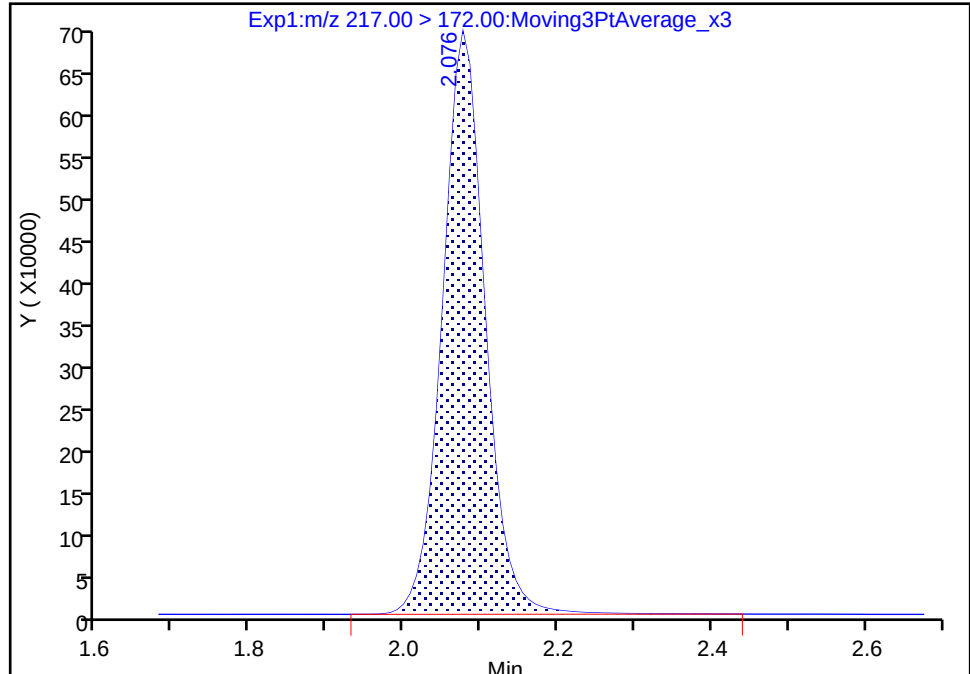
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

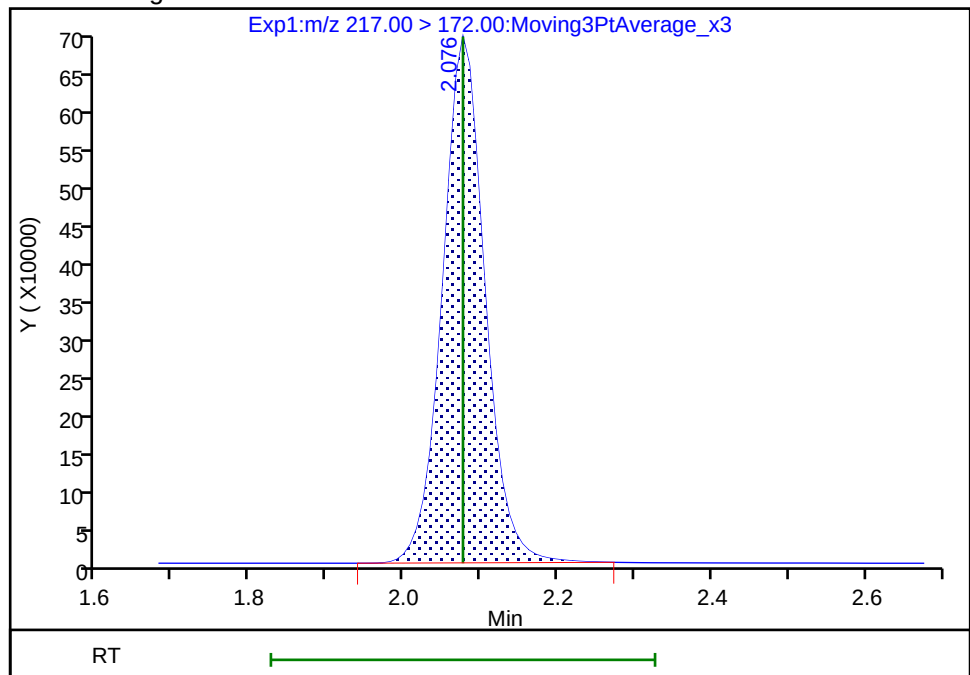
RT: 2.08
Area: 2683228
Amount: 1.030340
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2670376
Amount: 1.025405
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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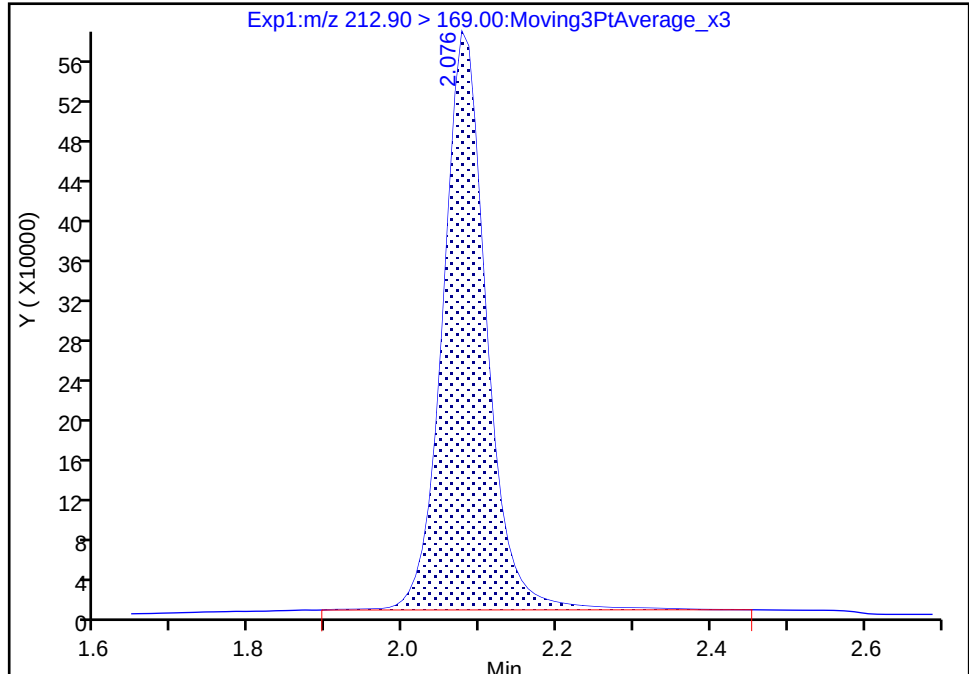
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

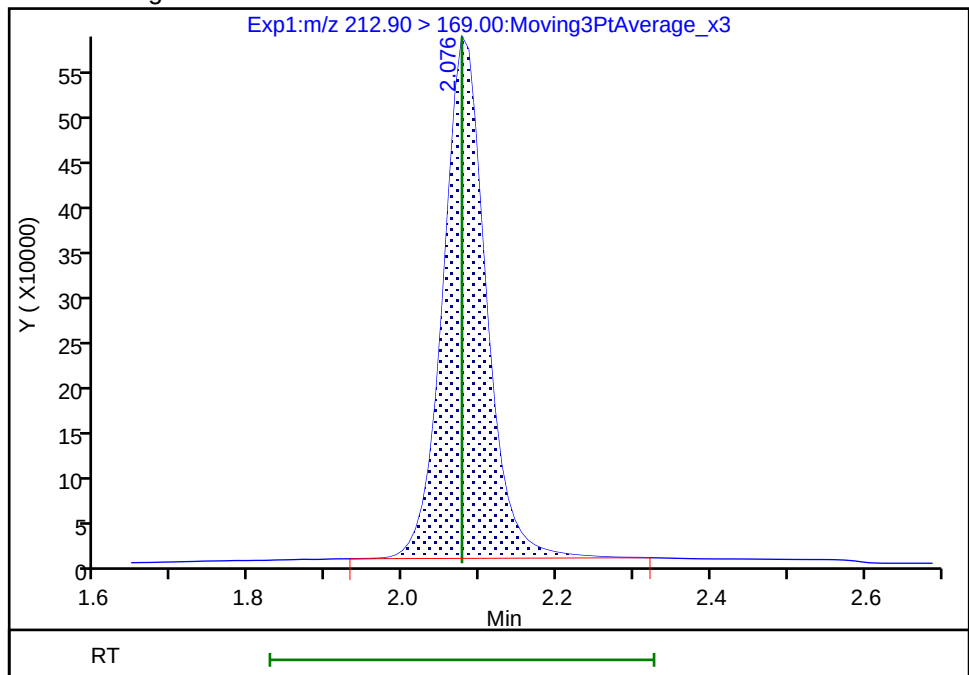
RT: 2.08
Area: 2274782
Amount: 1.032610
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2244563
Amount: 1.018892
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

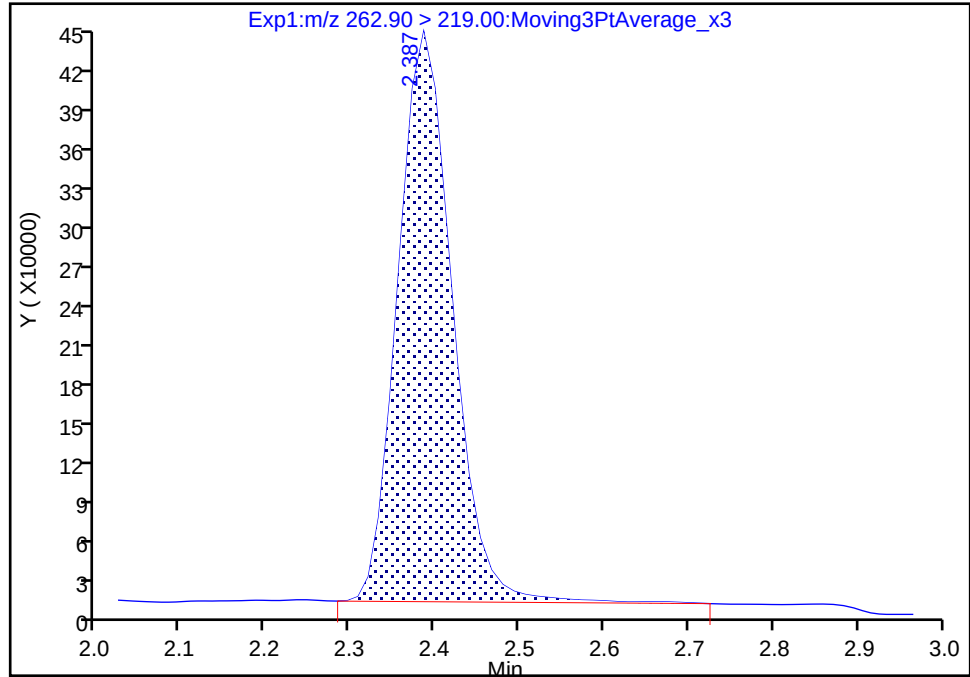
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

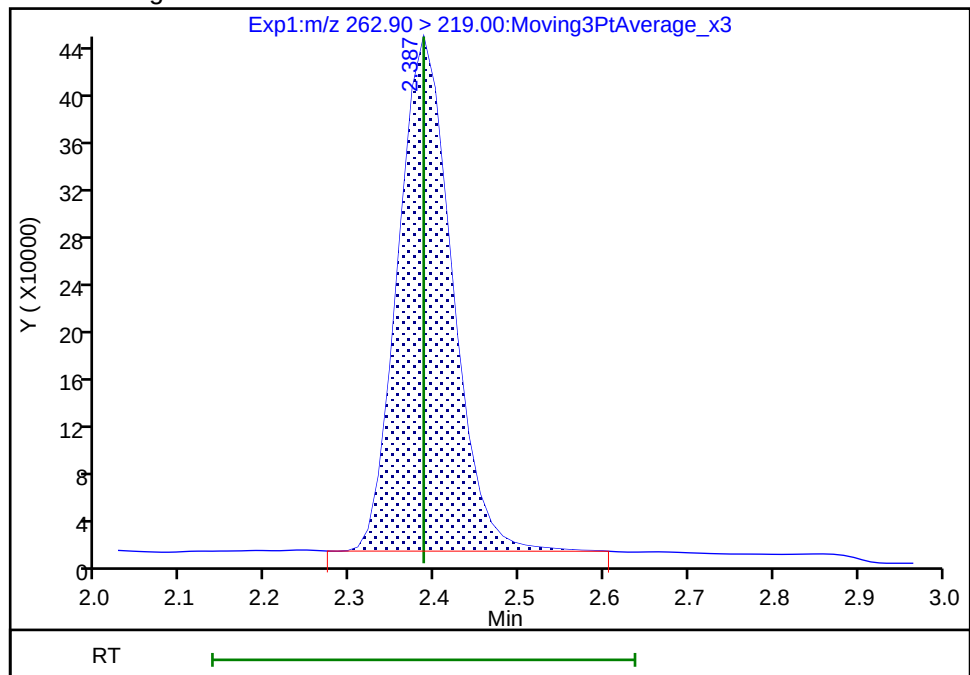
RT: 2.39
Area: 1952031
Amount: 1.086518
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1931131
Amount: 1.074885
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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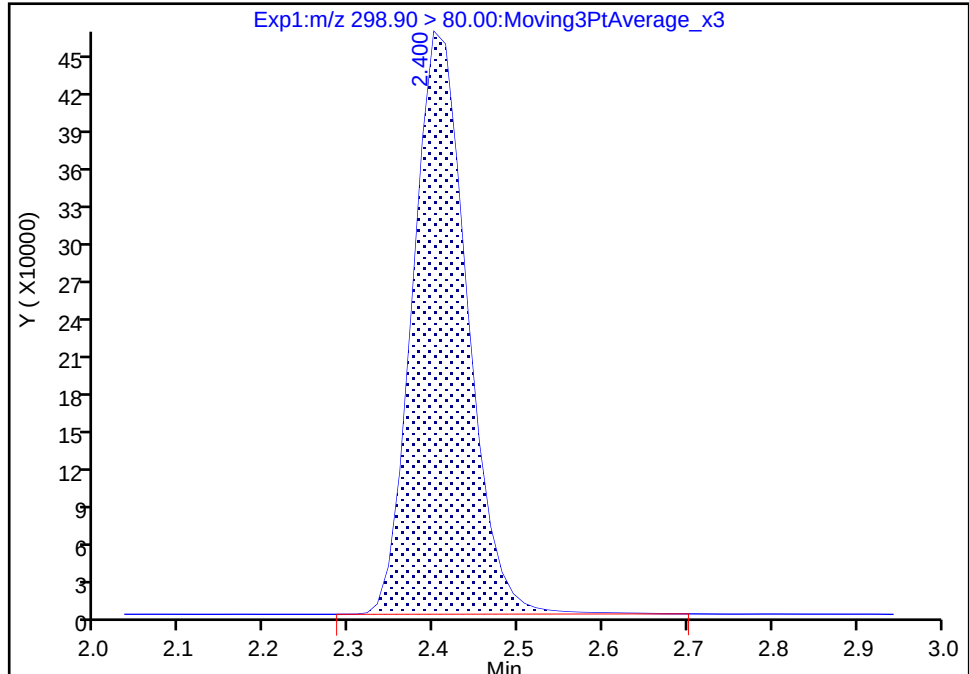
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

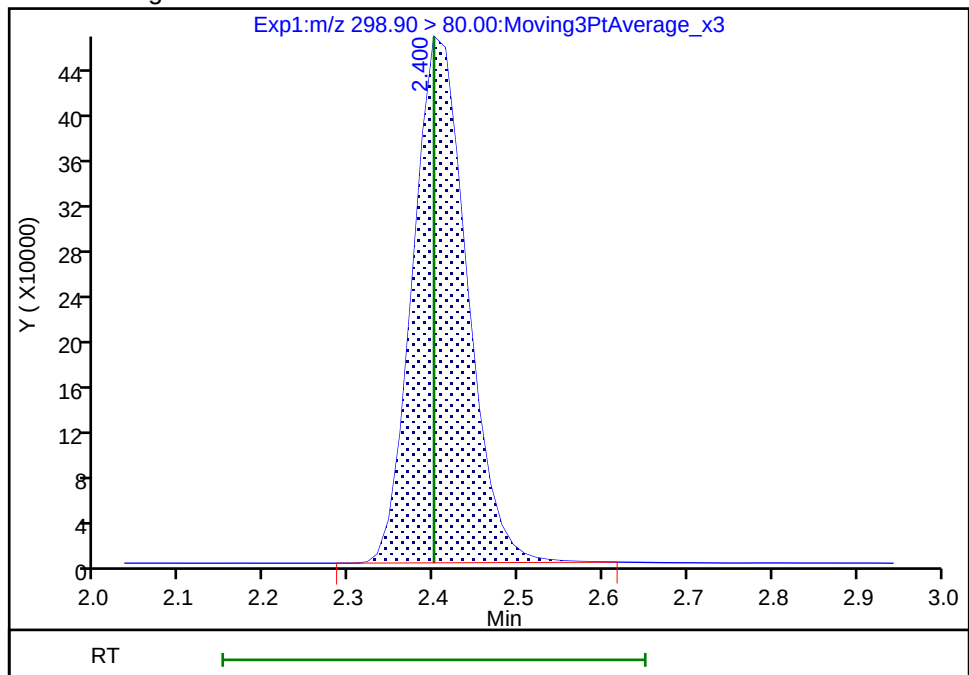
RT: 2.40
Area: 2078717
Amount: 0.981767
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2070709
Amount: 0.977985
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

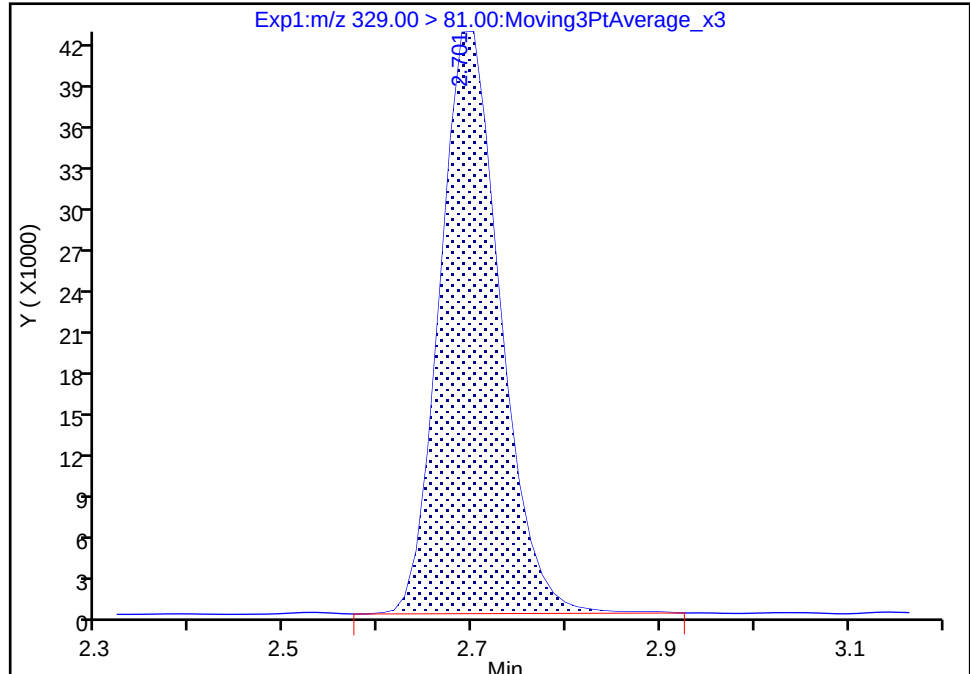
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

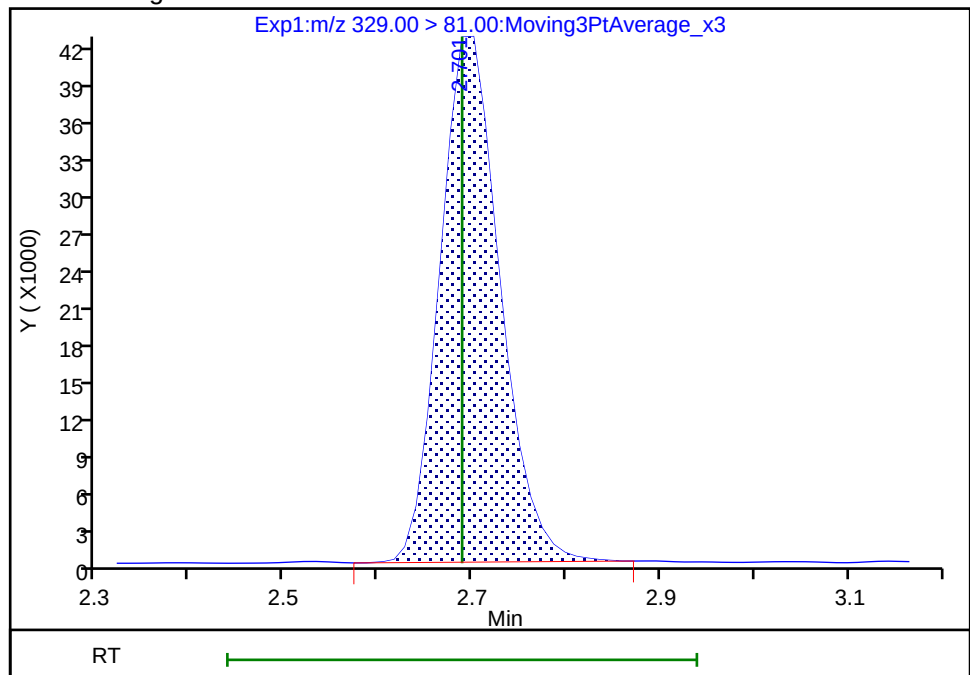
RT: 2.70
Area: 187018
Amount: 0.982209
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 186032
Amount: 0.977030
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

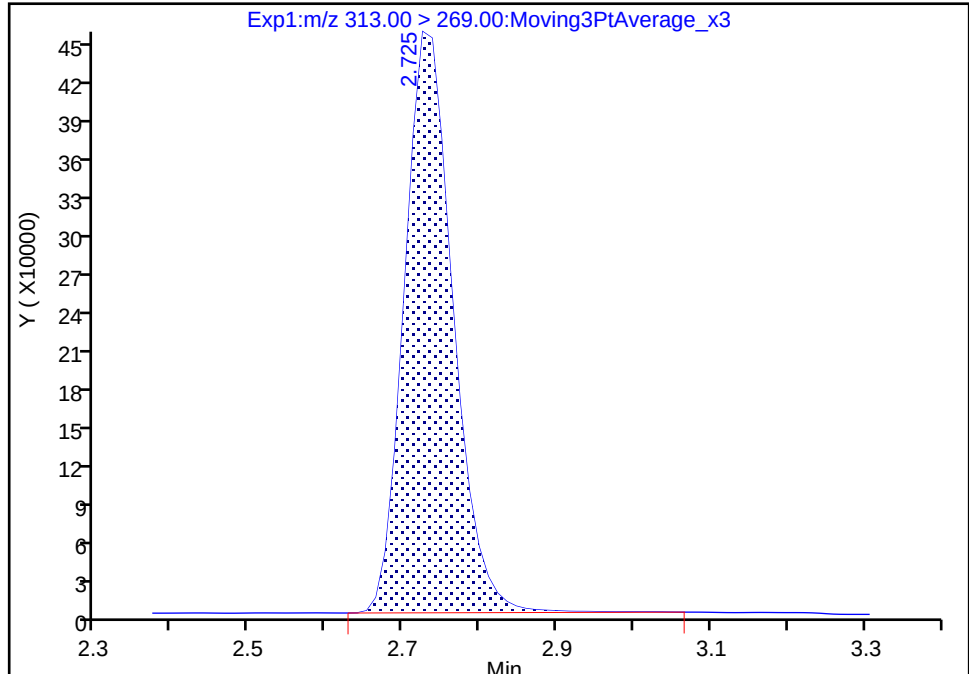
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

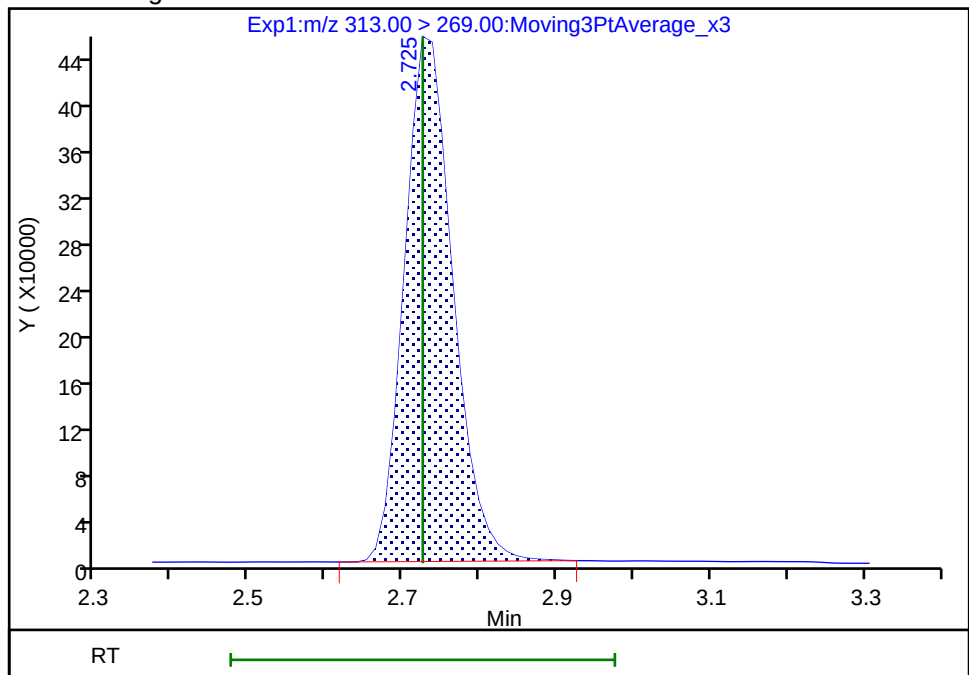
RT: 2.73
Area: 1996563
Amount: 1.018646
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1986916
Amount: 1.013724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

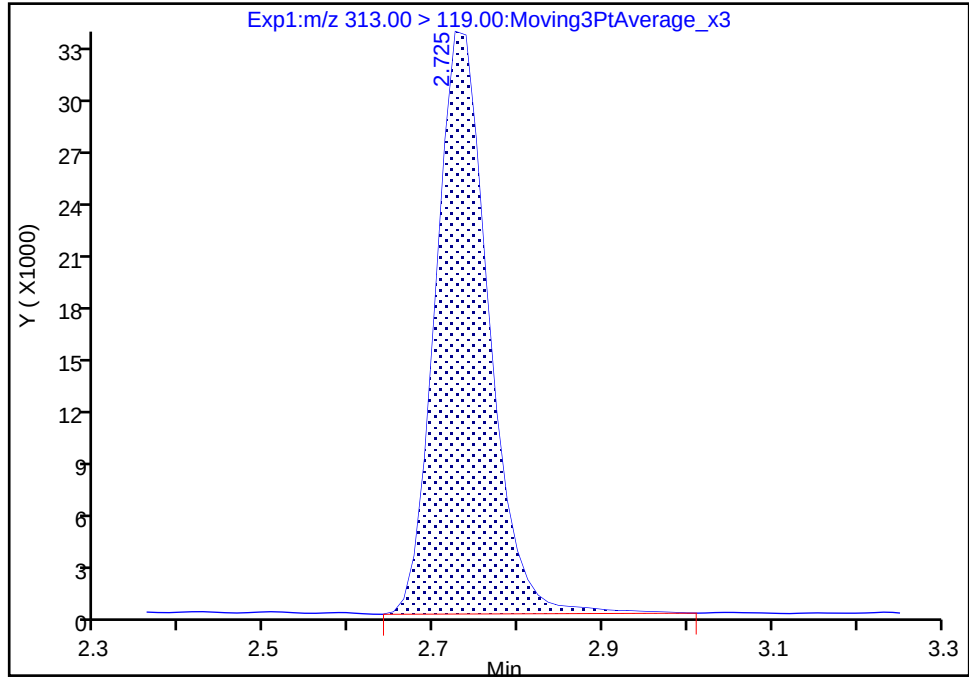
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

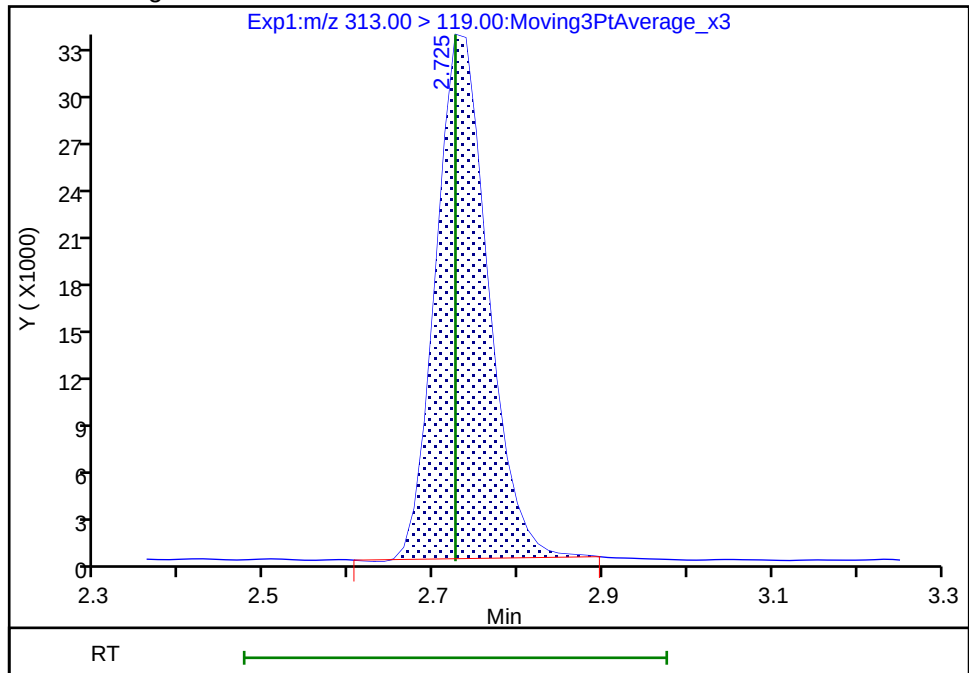
RT: 2.73
Area: 144299
Amount: 1.018646
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 140975
Amount: 1.013724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

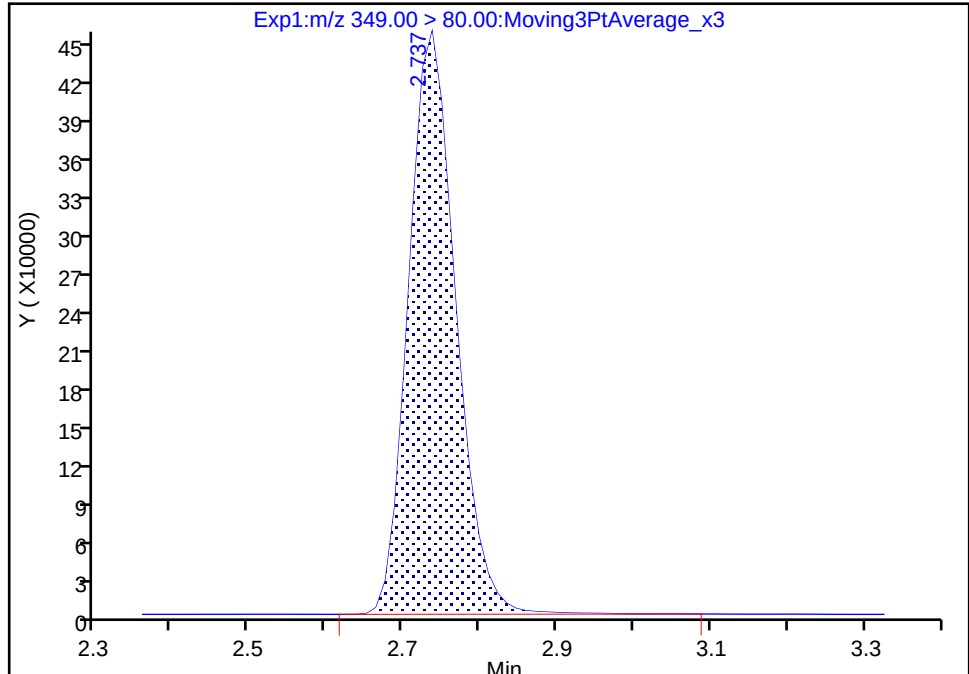
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

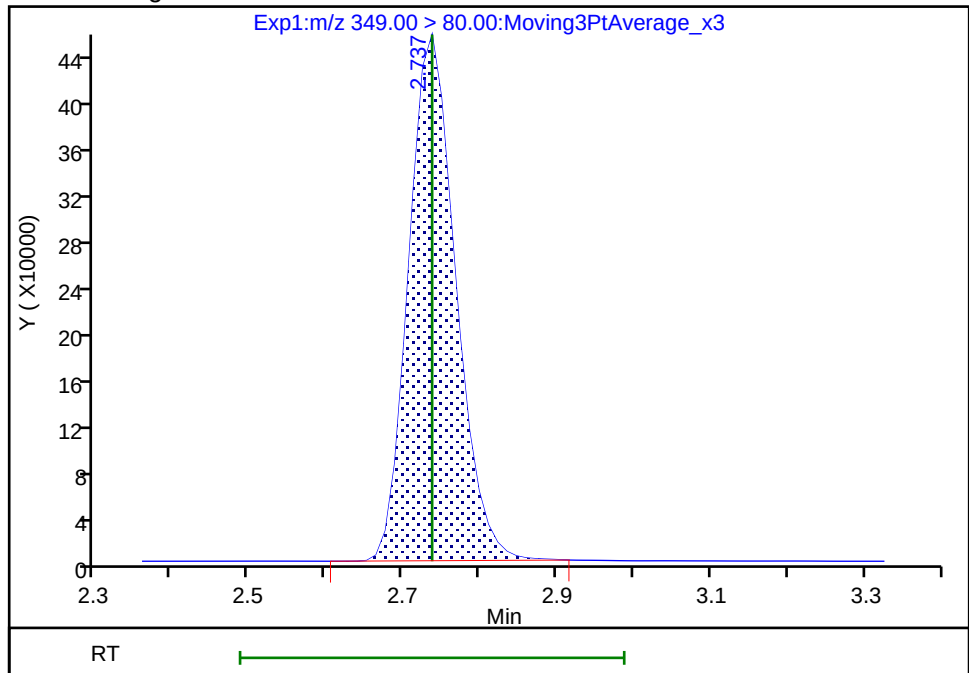
RT: 2.74
Area: 1936279
Amount: 1.104646
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1925334
Amount: 1.098402
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

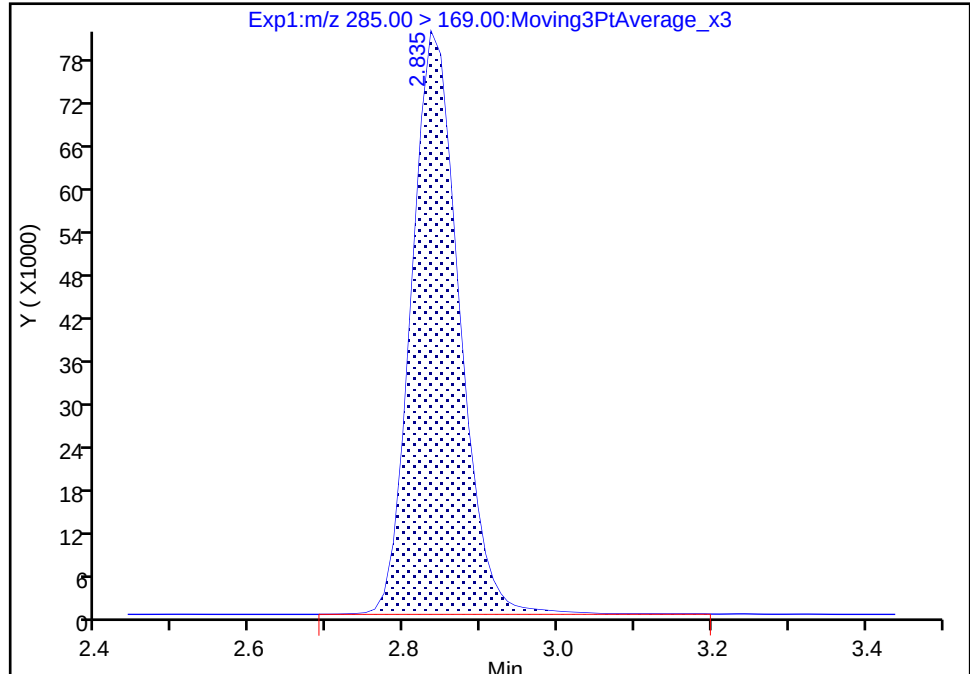
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

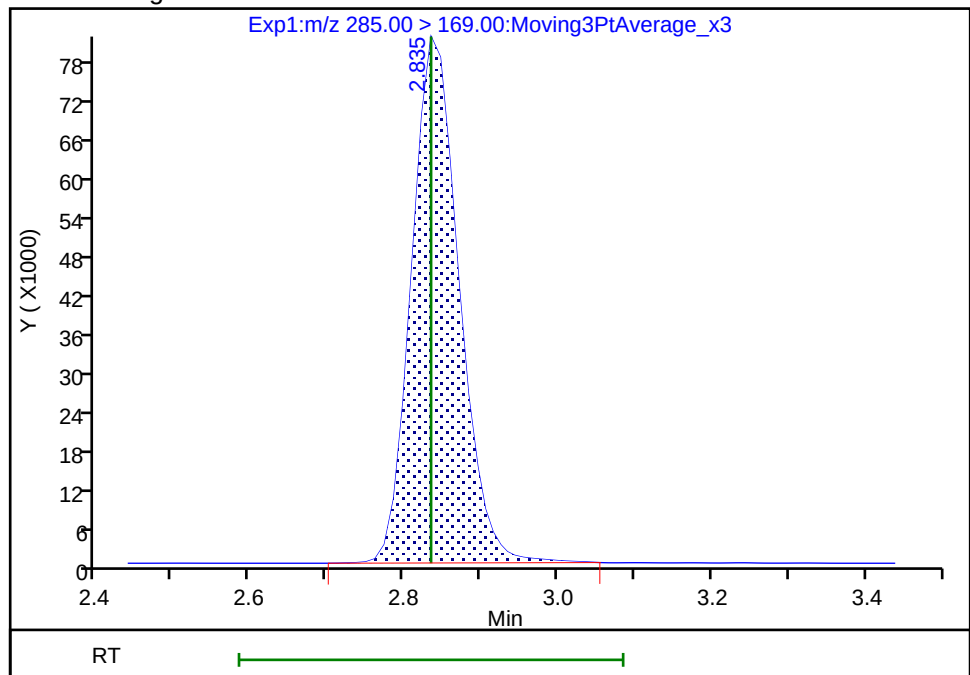
RT: 2.83
Area: 349656
Amount: 1.072576
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 348107
Amount: 1.067825
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

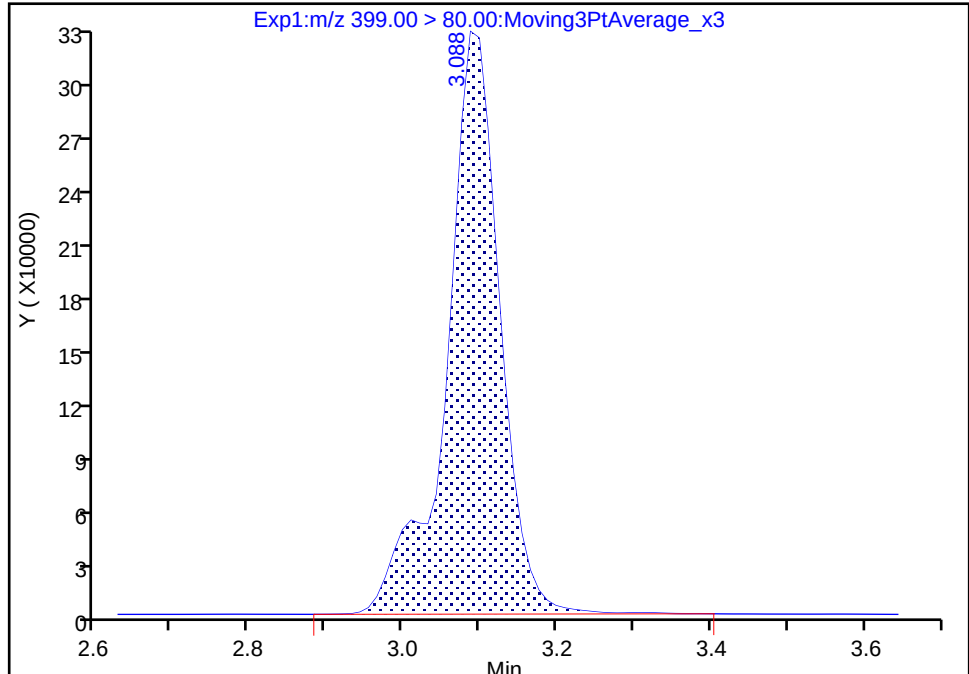
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

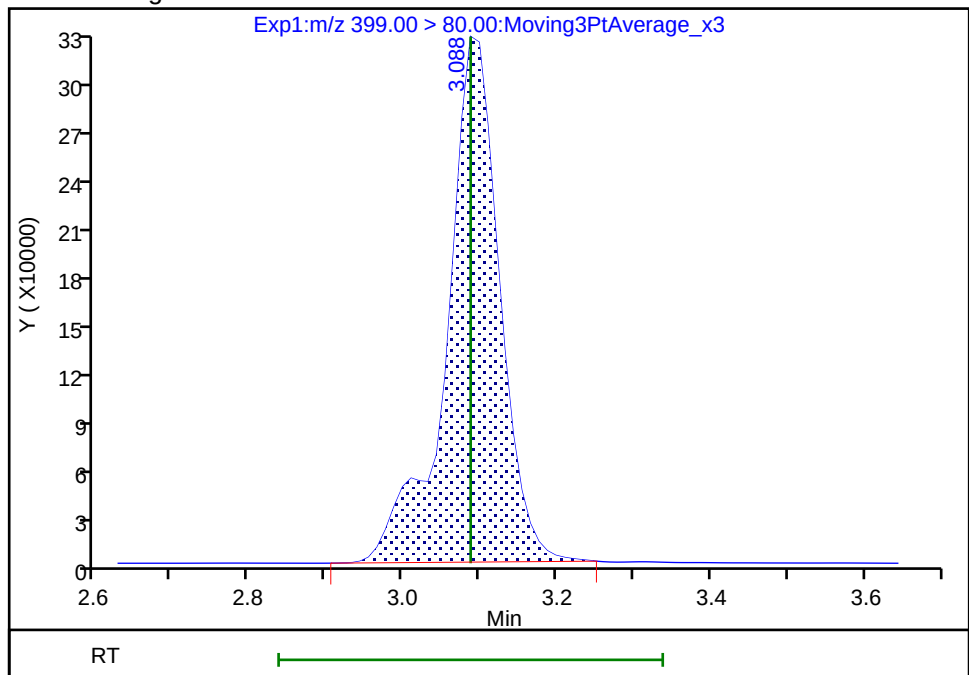
RT: 3.09
Area: 1580261
Amount: 1.066710
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1565688
Amount: 1.056873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

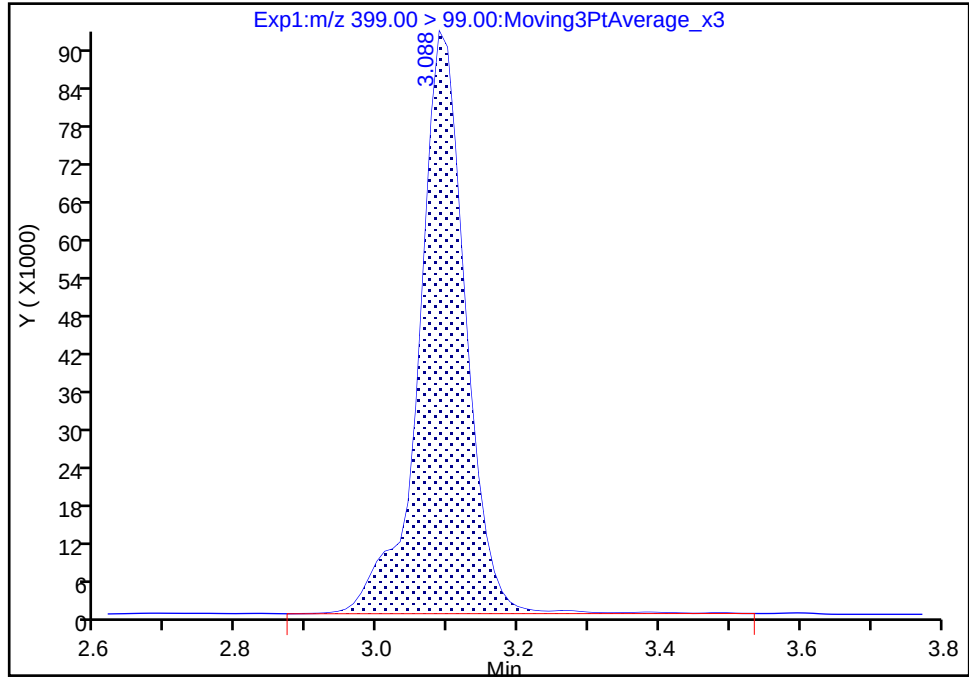
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

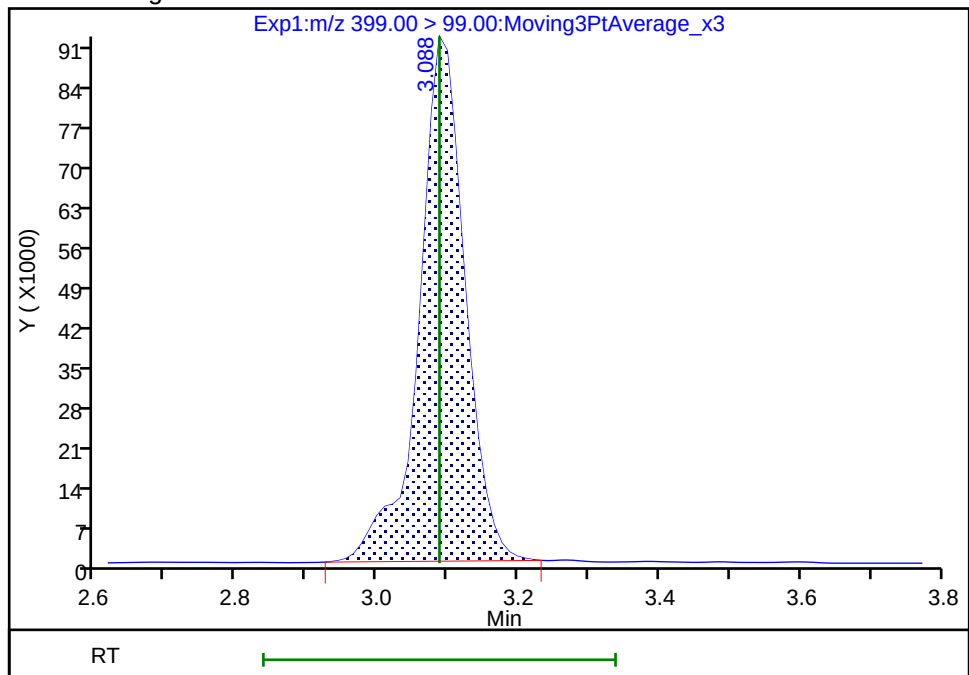
RT: 3.09
Area: 423789
Amount: 1.066710
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 416511
Amount: 1.056873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

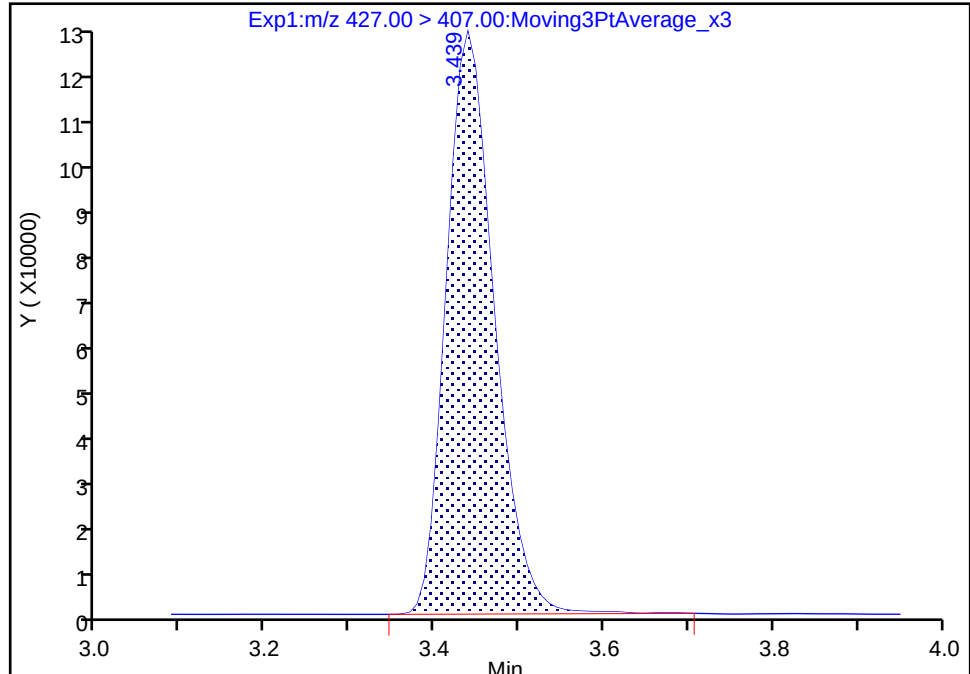
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

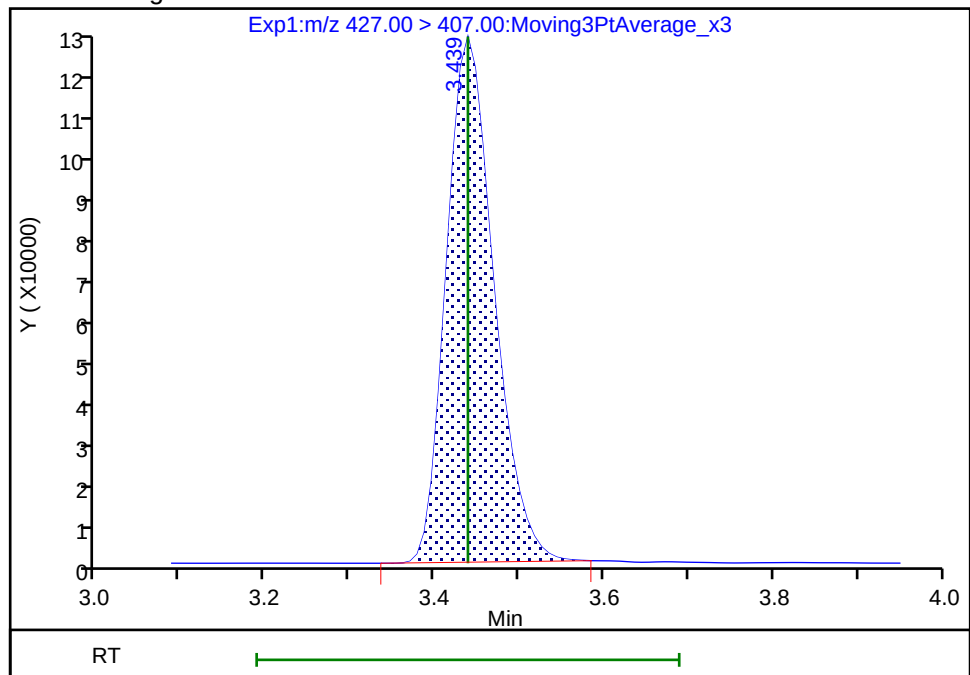
RT: 3.44
Area: 502234
Amount: 1.072151
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 497227
Amount: 1.061344
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

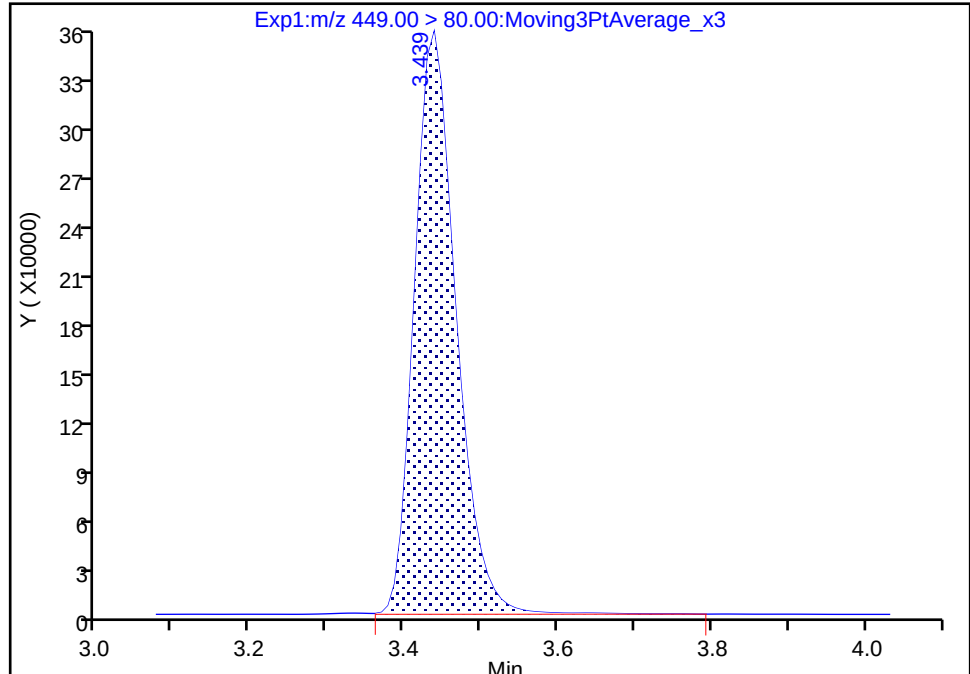
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

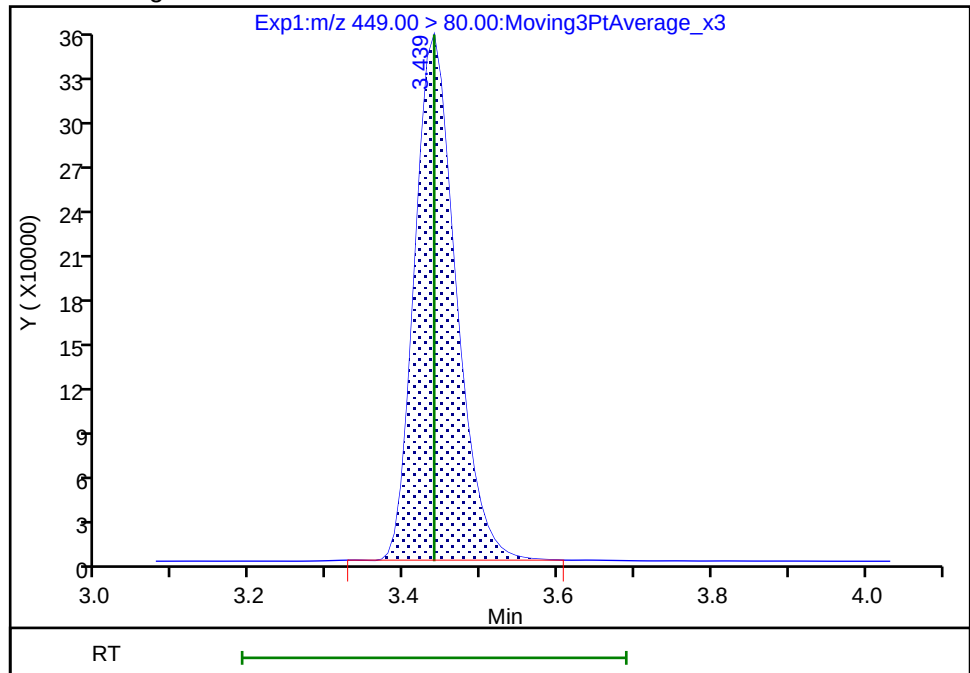
RT: 3.44
Area: 1318008
Amount: 1.043678
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1304864
Amount: 1.033270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

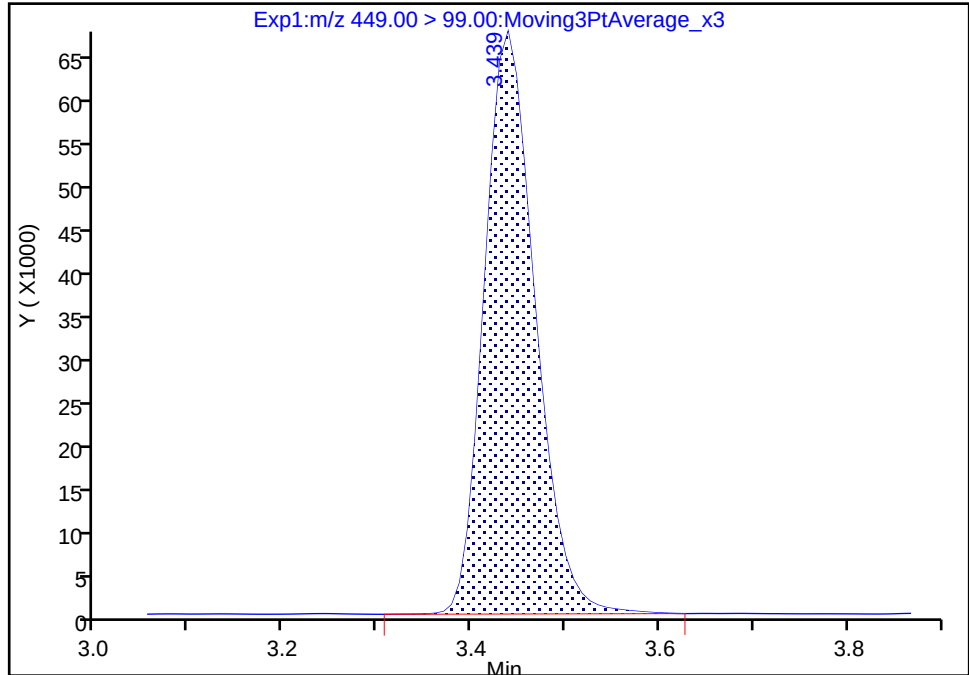
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

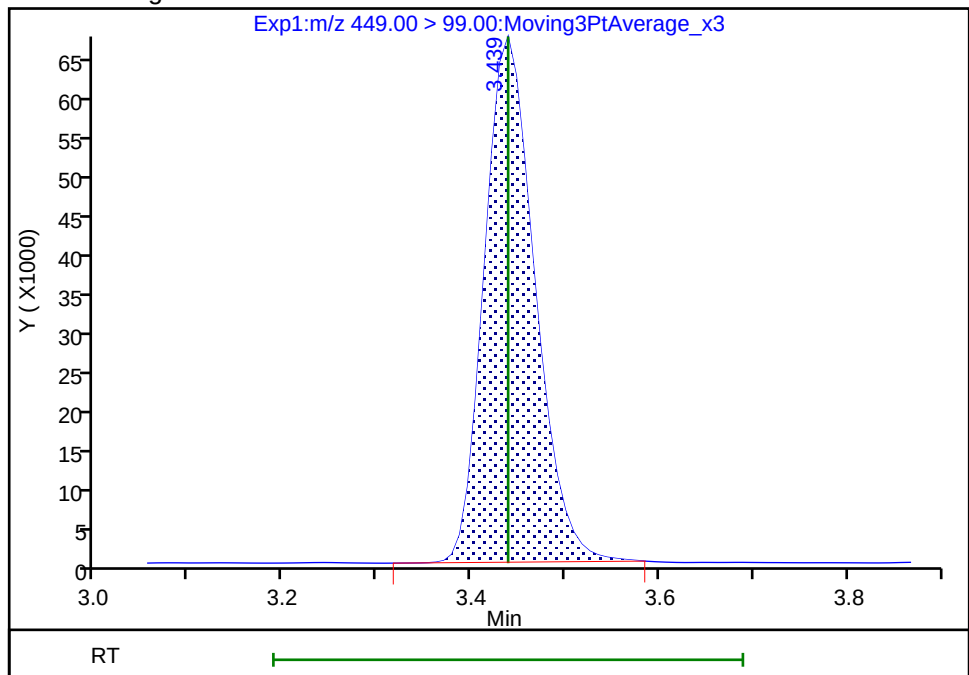
RT: 3.44
Area: 253988
Amount: 1.043678
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 252176
Amount: 1.033270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

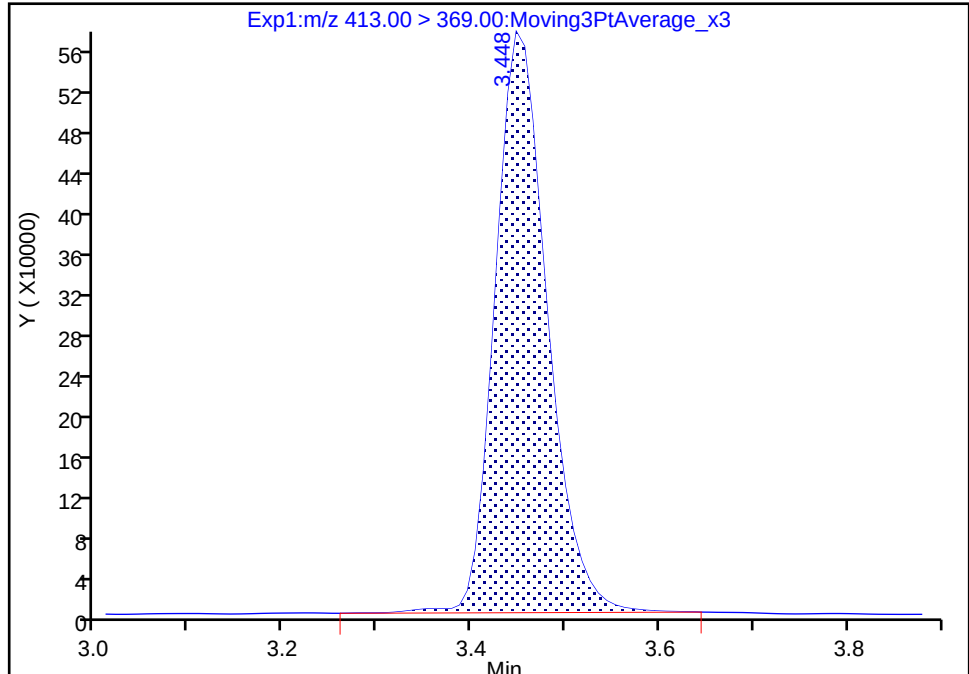
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

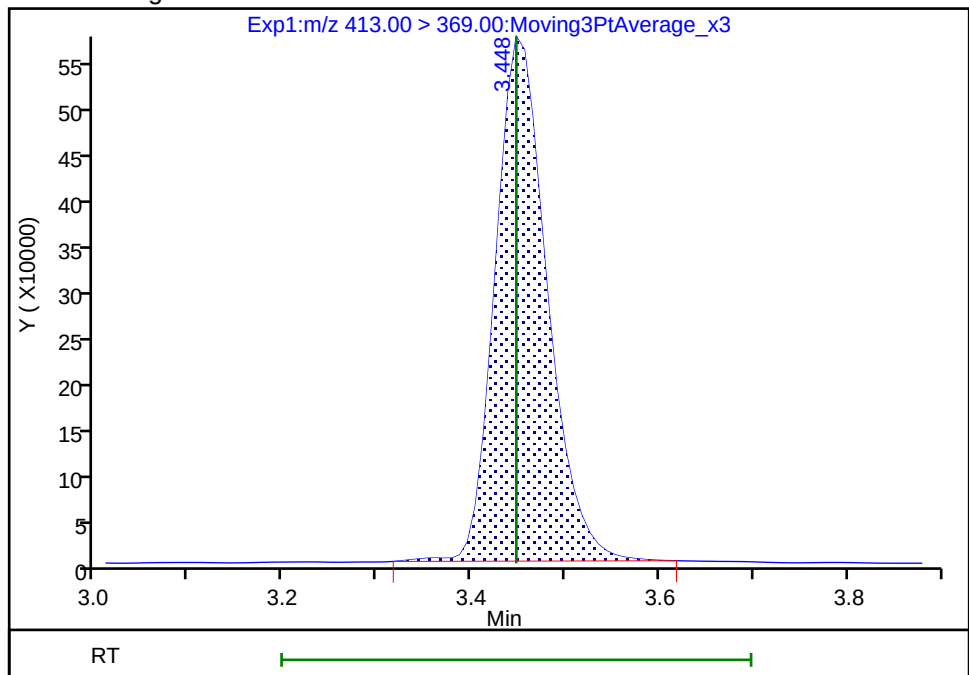
RT: 3.45
Area: 2210155
Amount: 1.028931
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2197145
Amount: 1.022875
Amount Units: ng/ml

Manual Integration Results



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Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

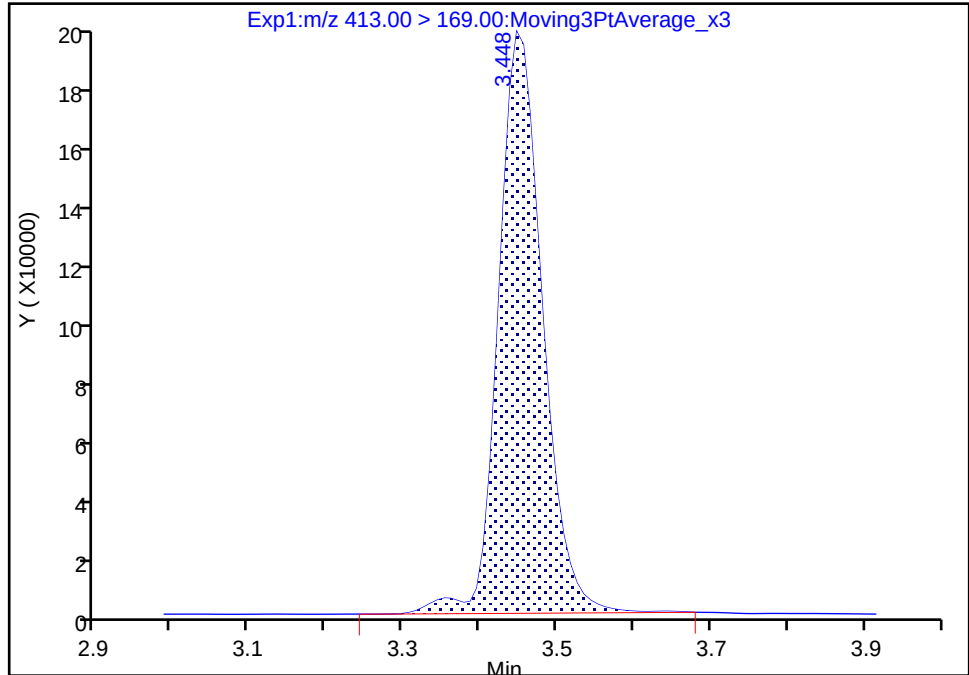
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

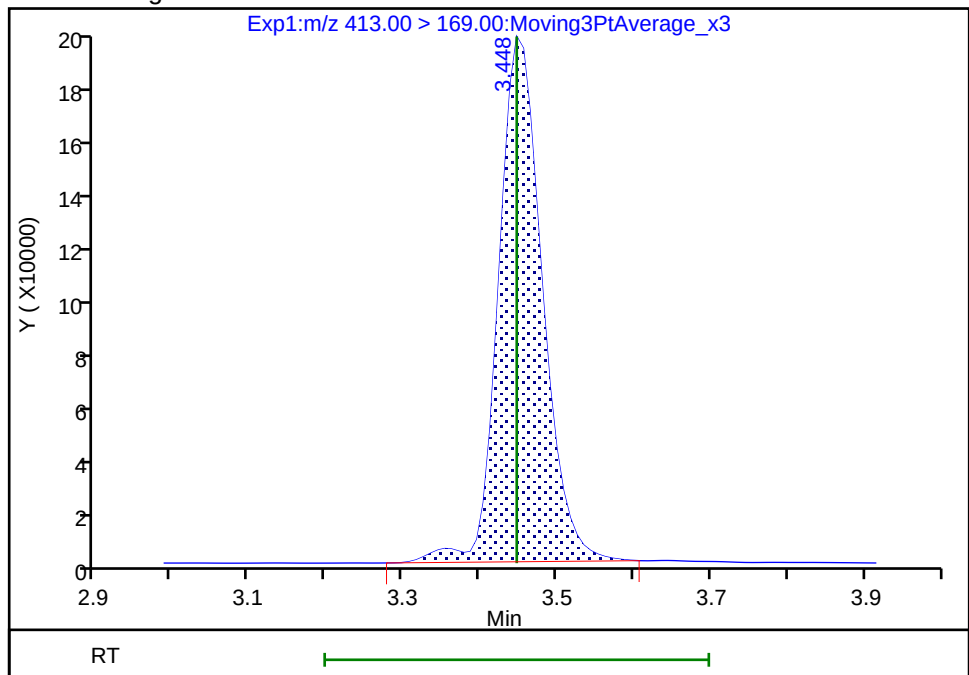
RT: 3.45
Area: 778853
Amount: 1.028931
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 773803
Amount: 1.022875
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

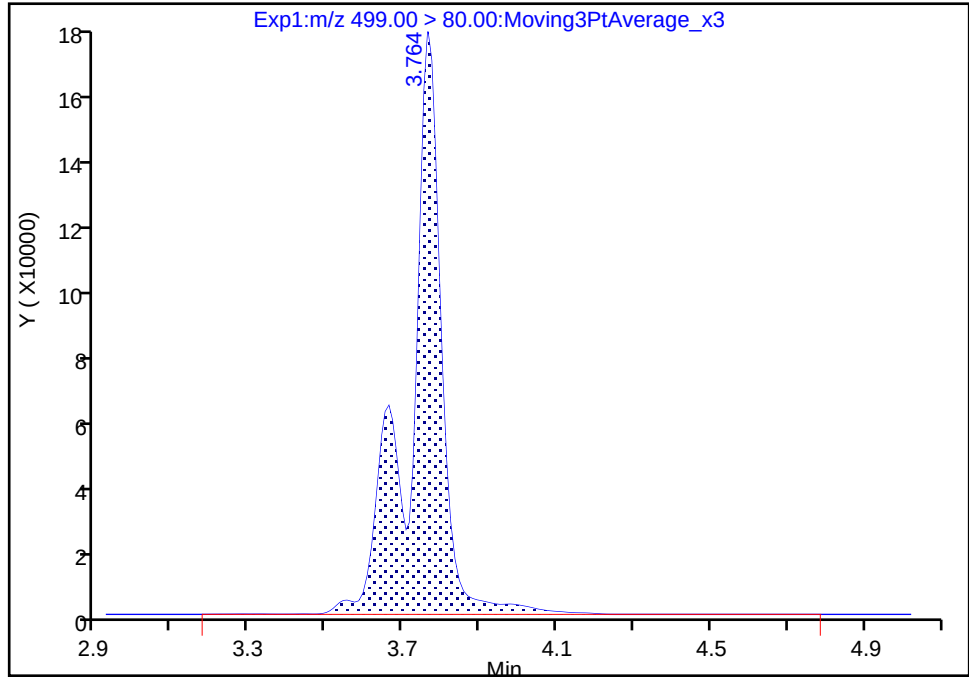
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

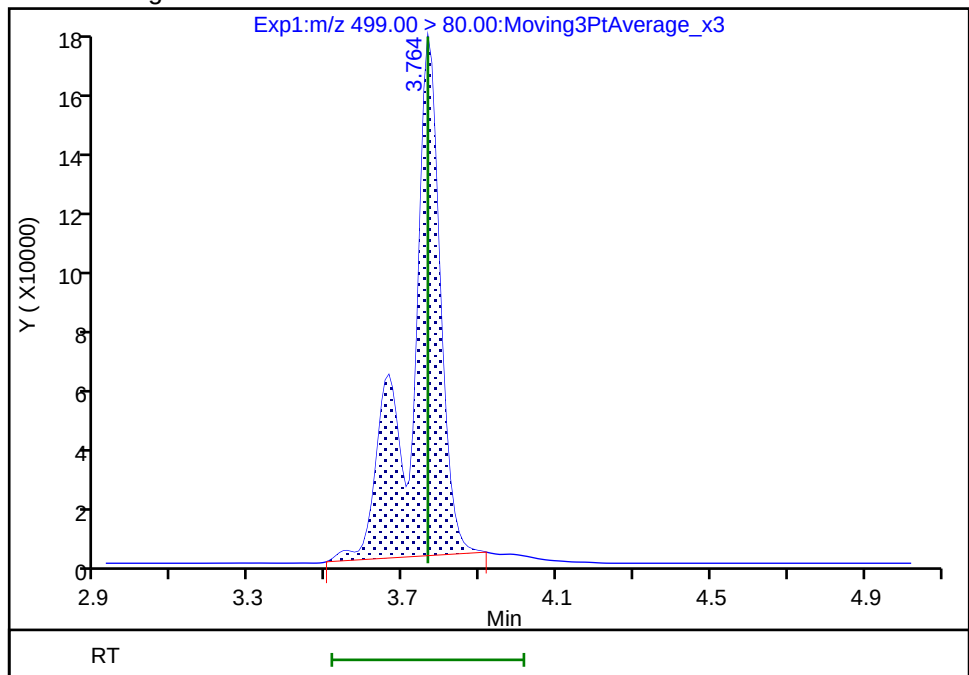
RT: 3.76
Area: 1017852
Amount: 0.925675
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 936613
Amount: 0.851793
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

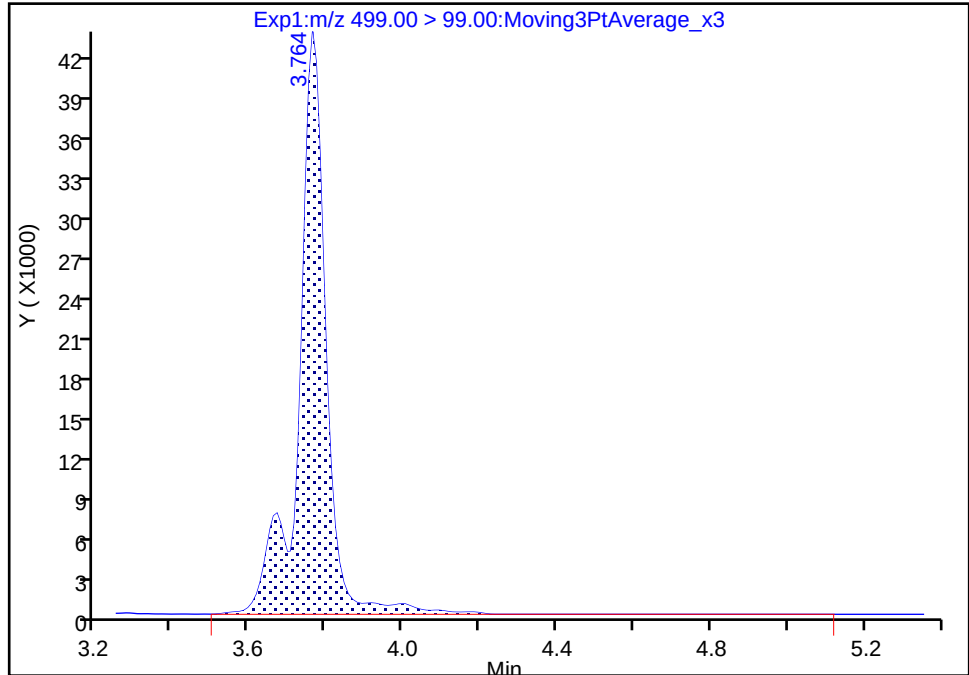
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

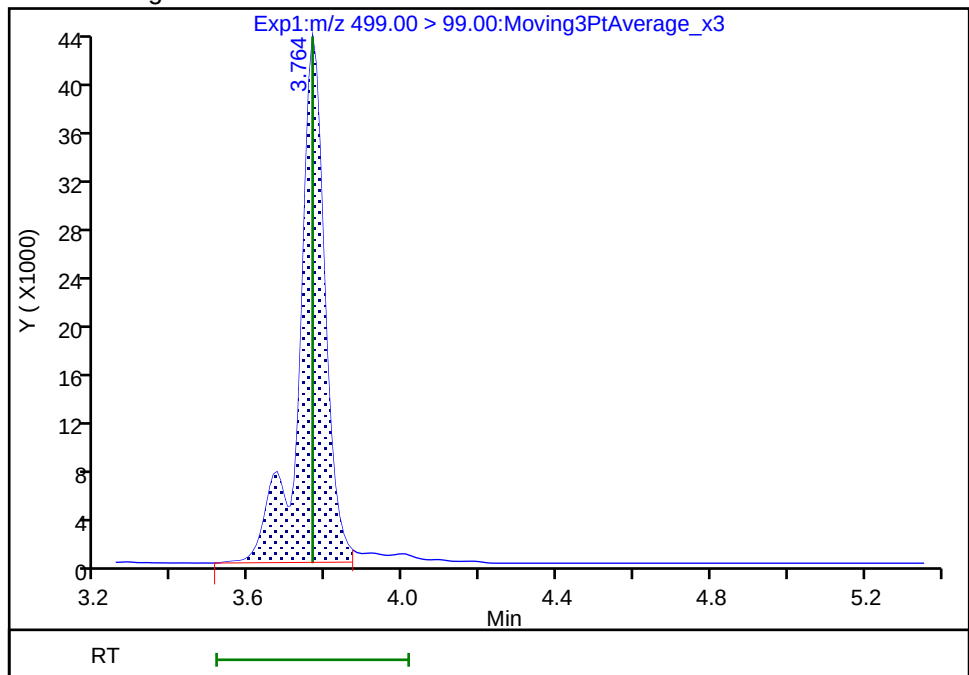
RT: 3.76
Area: 215493
Amount: 0.925675
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 204498
Amount: 0.851793
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

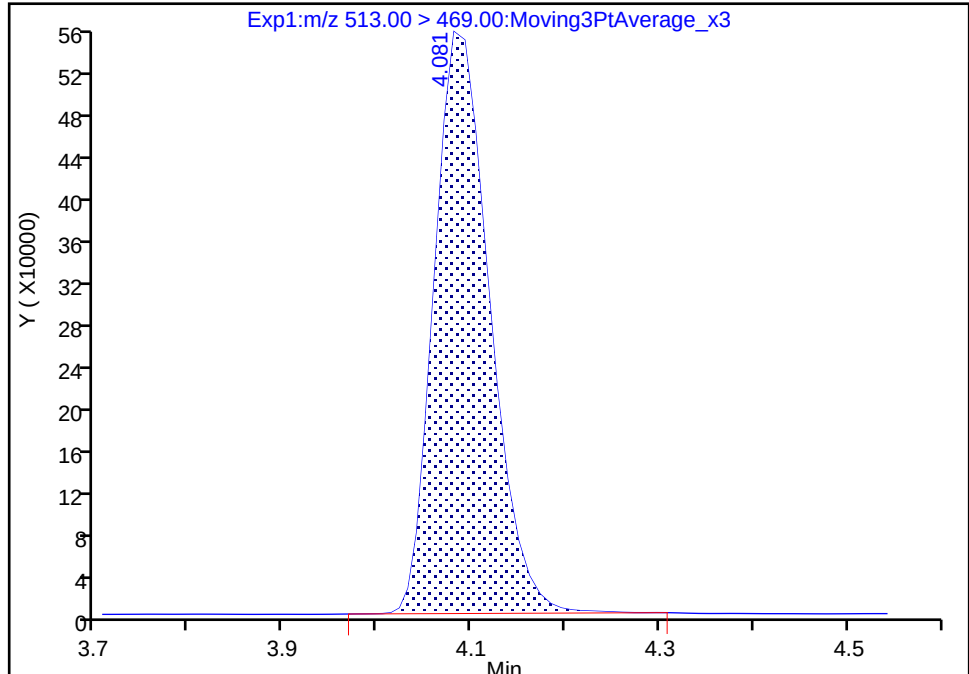
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

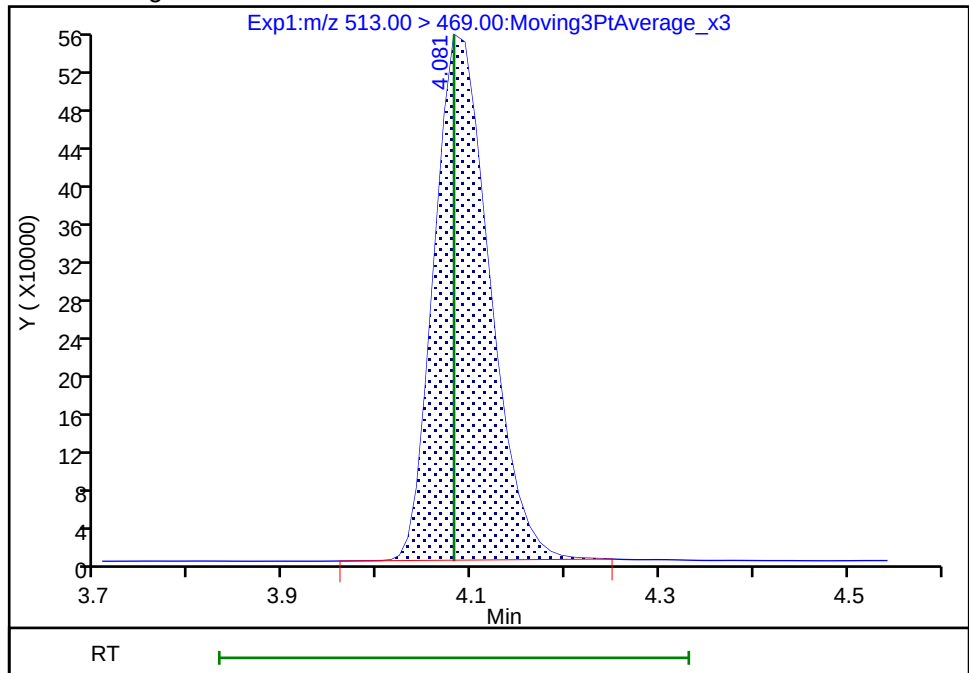
RT: 4.08
Area: 2277302
Amount: 1.004177
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2269026
Amount: 1.000528
Amount Units: ng/ml

Manual Integration Results



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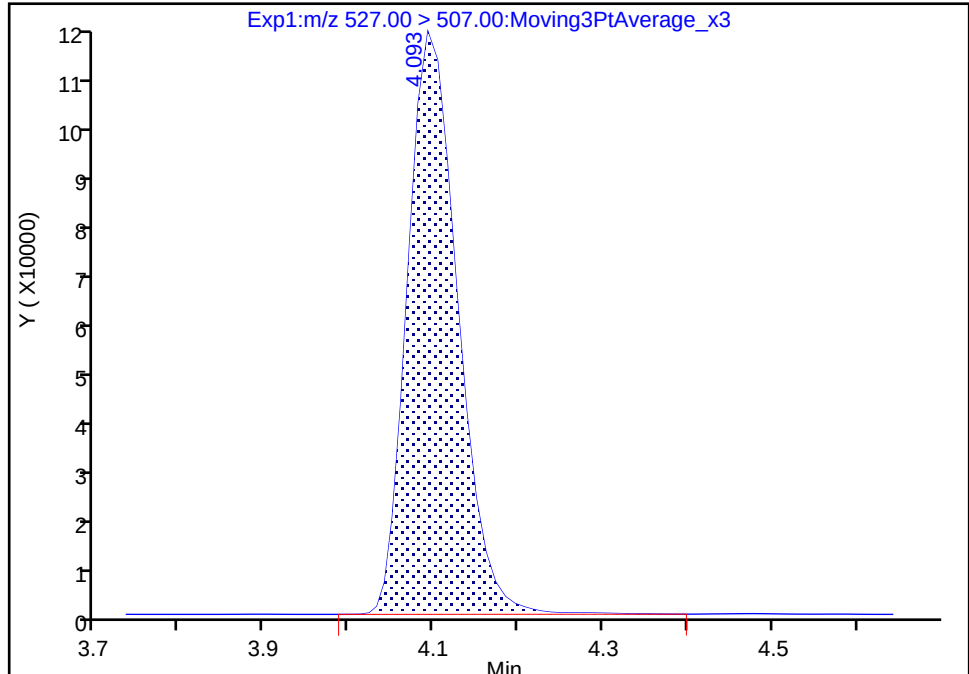
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

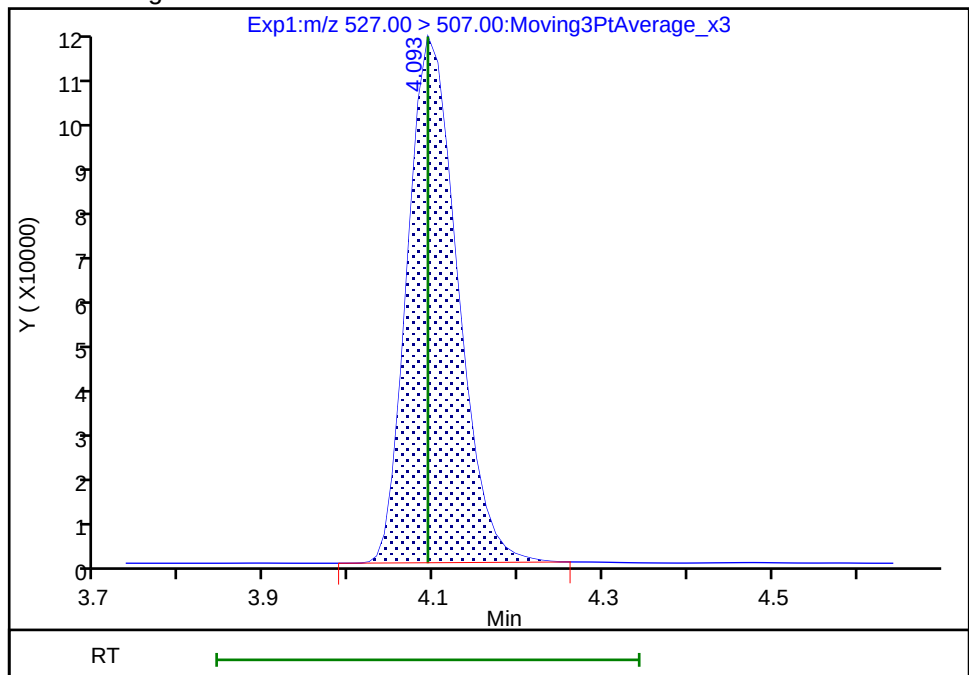
RT: 4.09
Area: 484745
Amount: 1.107834
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 481604
Amount: 1.100655
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

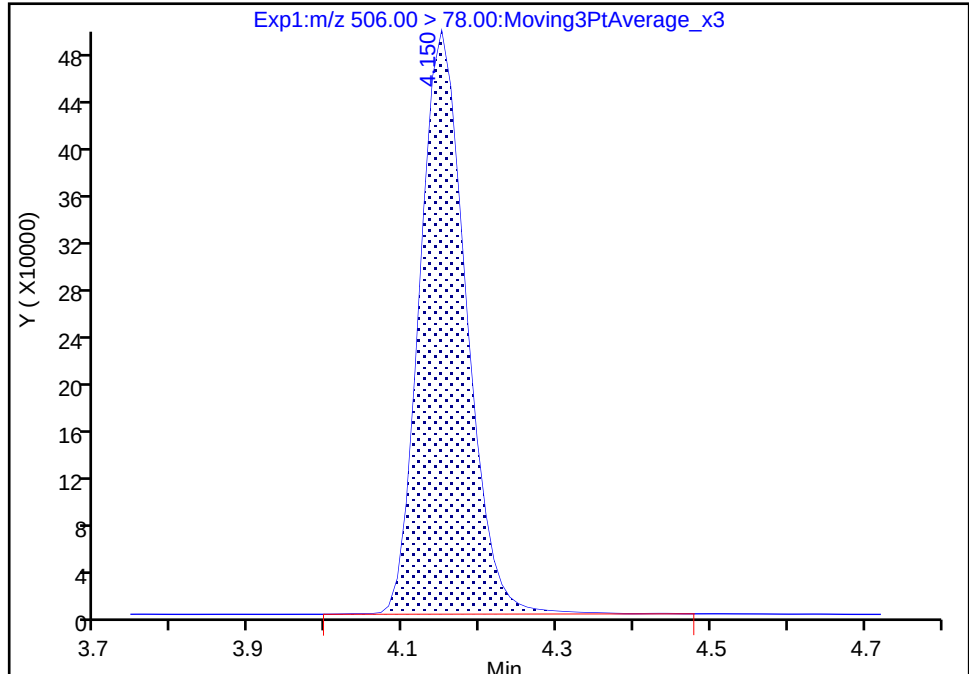
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

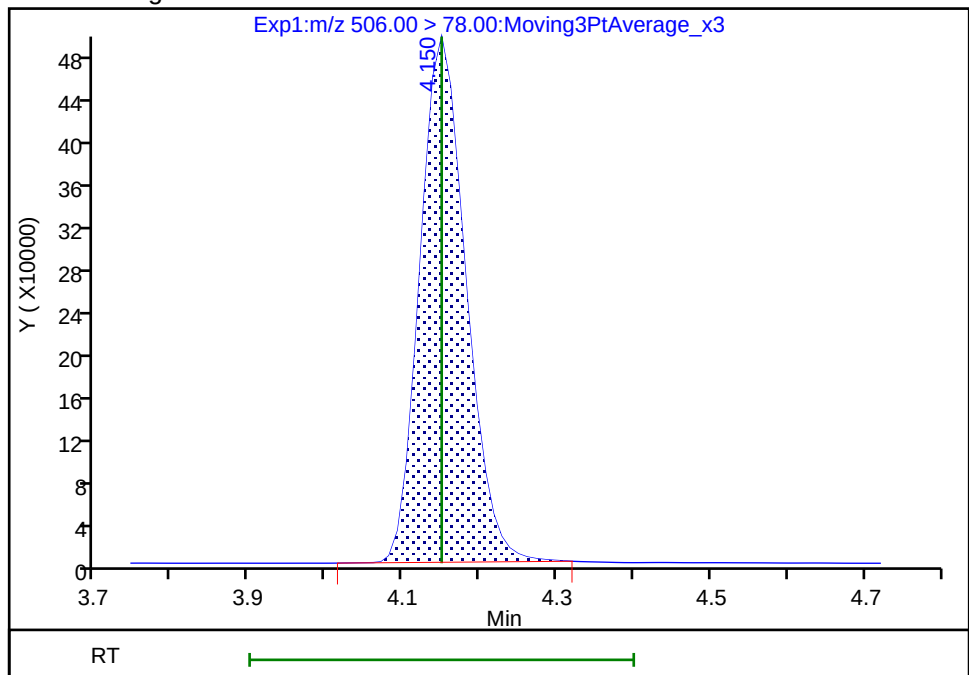
RT: 4.15
Area: 2074977
Amount: 1.063614
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2056044
Amount: 1.053909
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

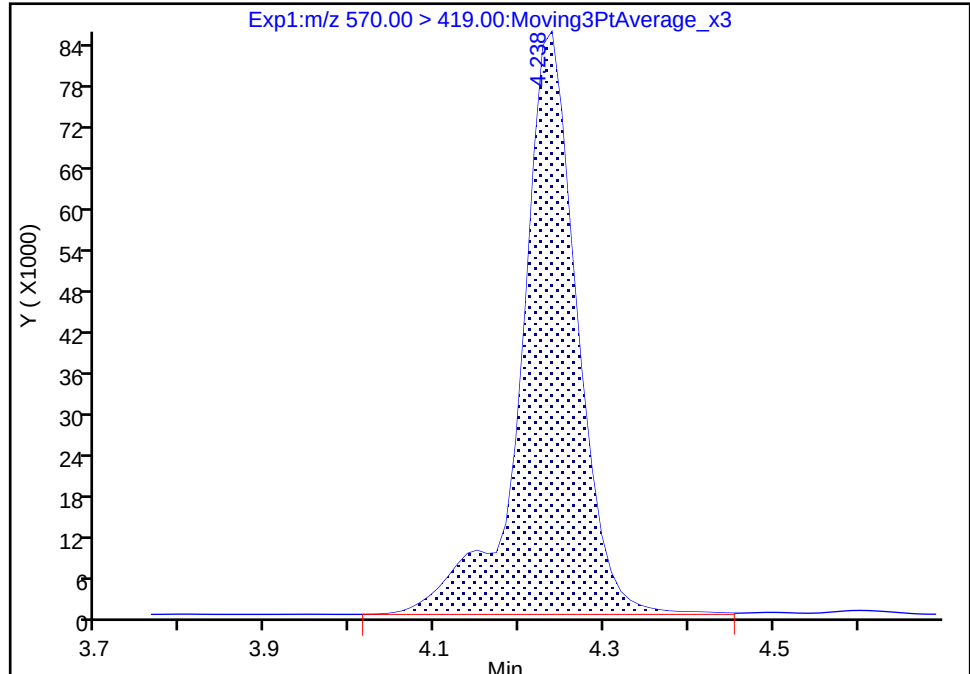
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

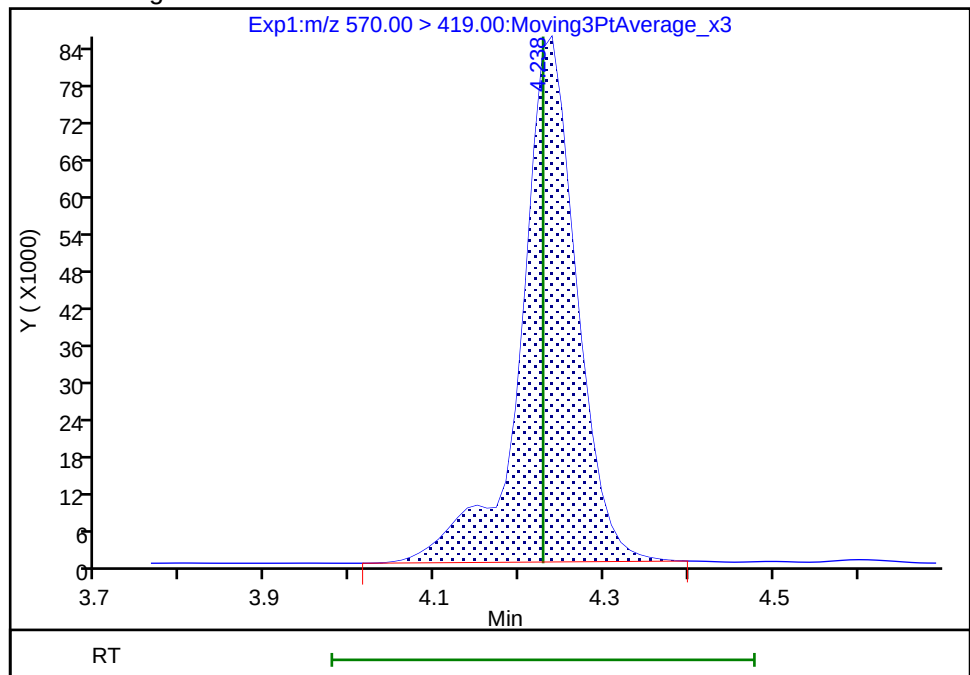
RT: 4.24
Area: 395419
Amount: 1.116920
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 390455
Amount: 1.102753
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

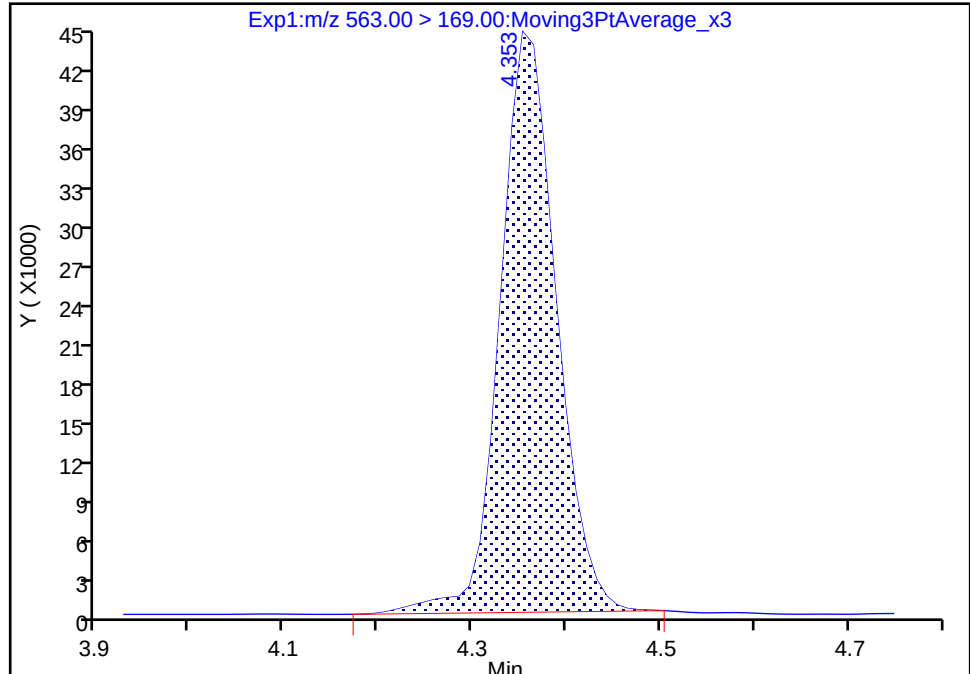
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

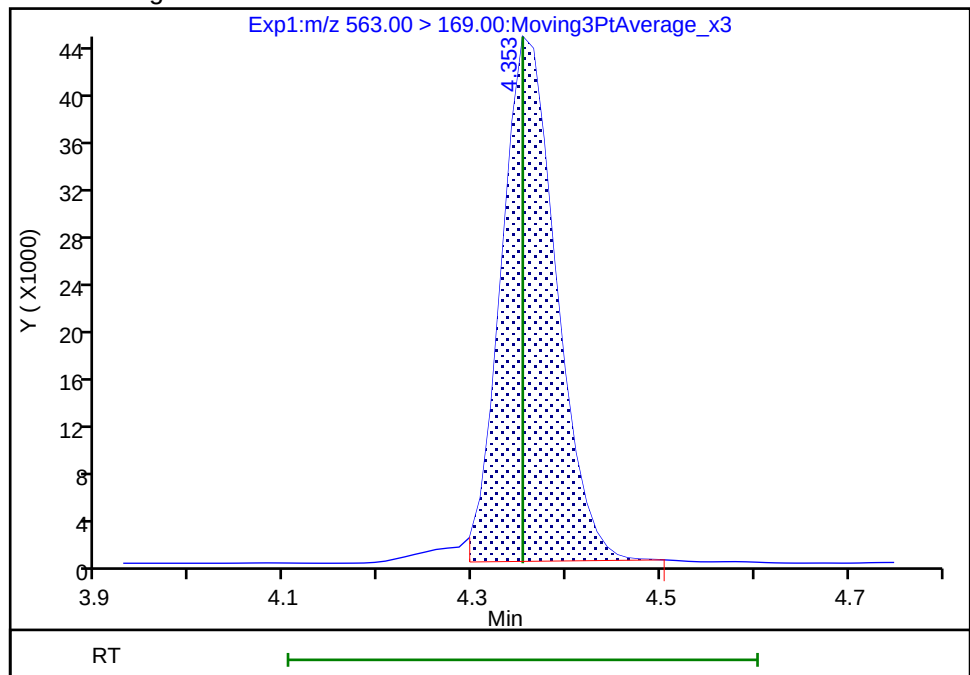
RT: 4.35
Area: 182508
Amount: 0.975318
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 177599
Amount: 0.962003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

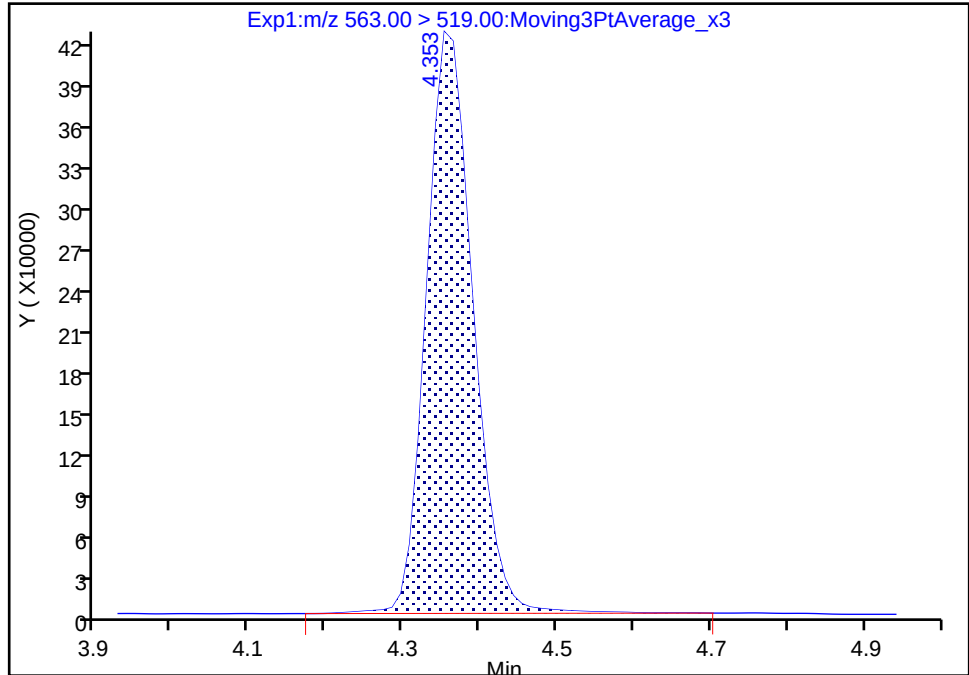
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

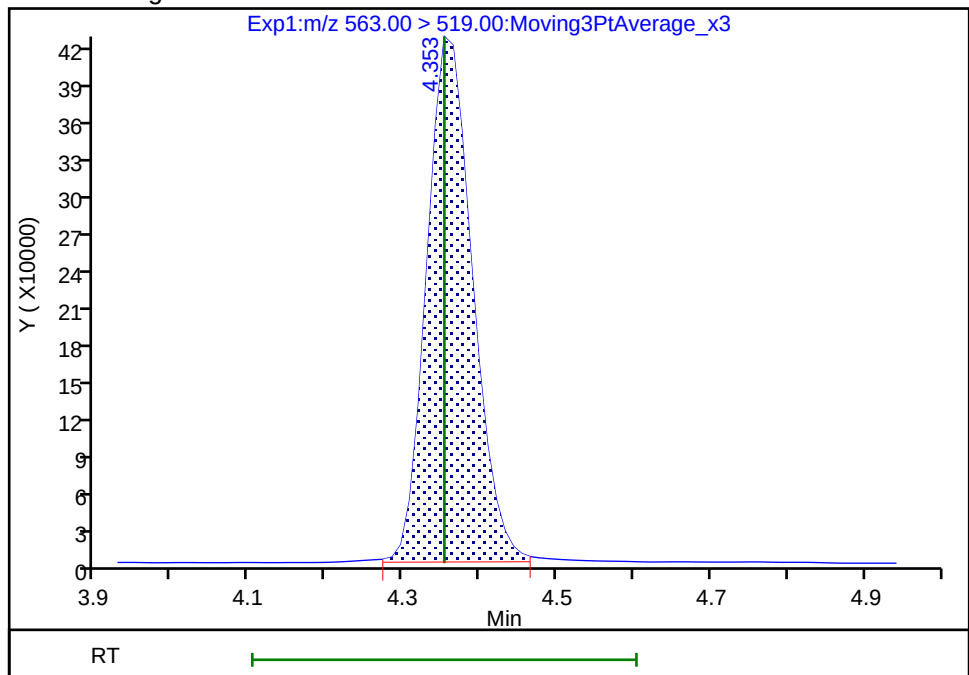
RT: 4.35
Area: 1763312
Amount: 0.975318
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1739241
Amount: 0.962003
Amount Units: ng/ml

Manual Integration Results



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Eurofins Burlington

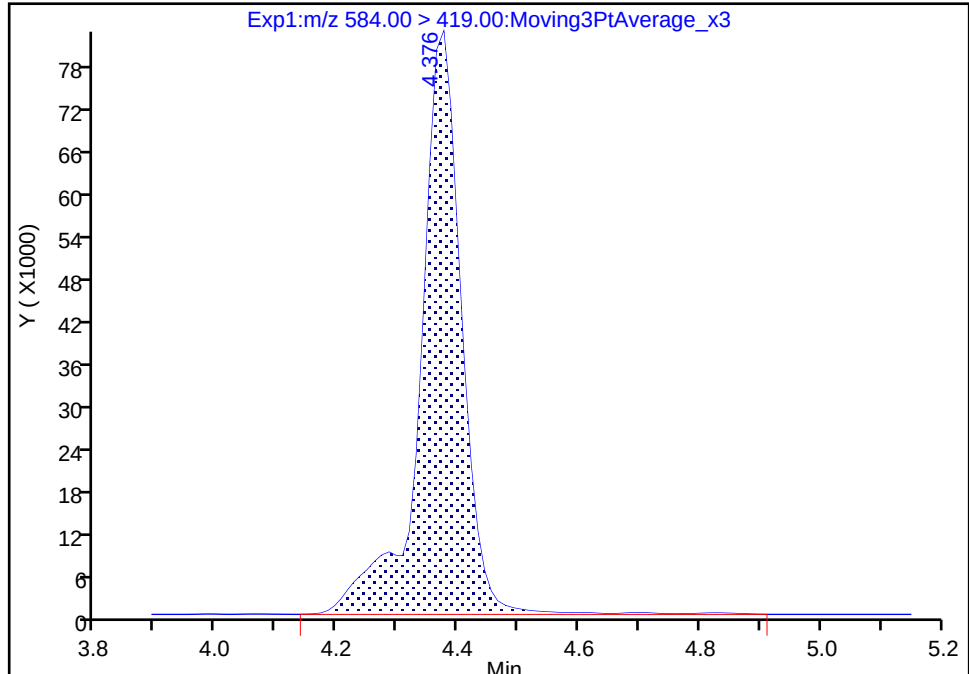
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

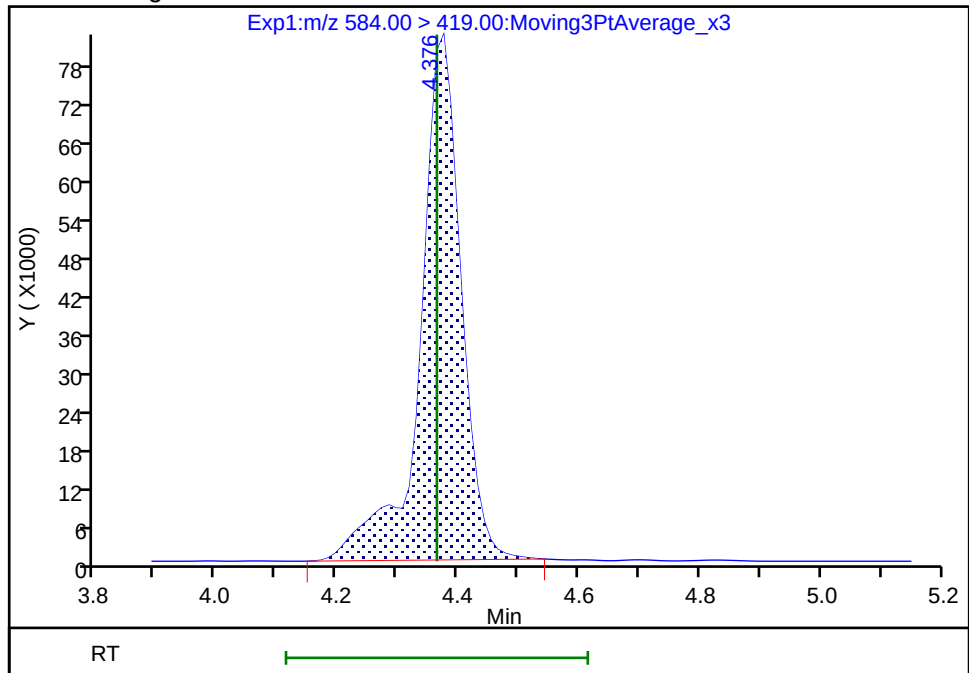
RT: 4.38
Area: 392736
Amount: 1.062553
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 385250
Amount: 1.042299
Amount Units: ng/ml

Manual Integration Results



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Audit Action: Manually Integrated

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Eurofins Burlington

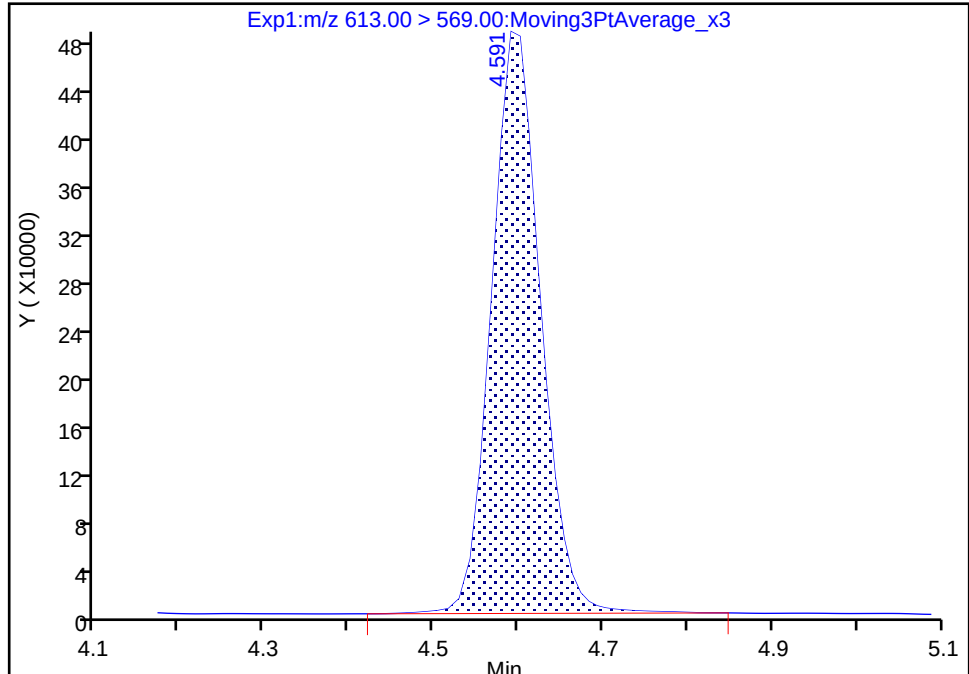
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

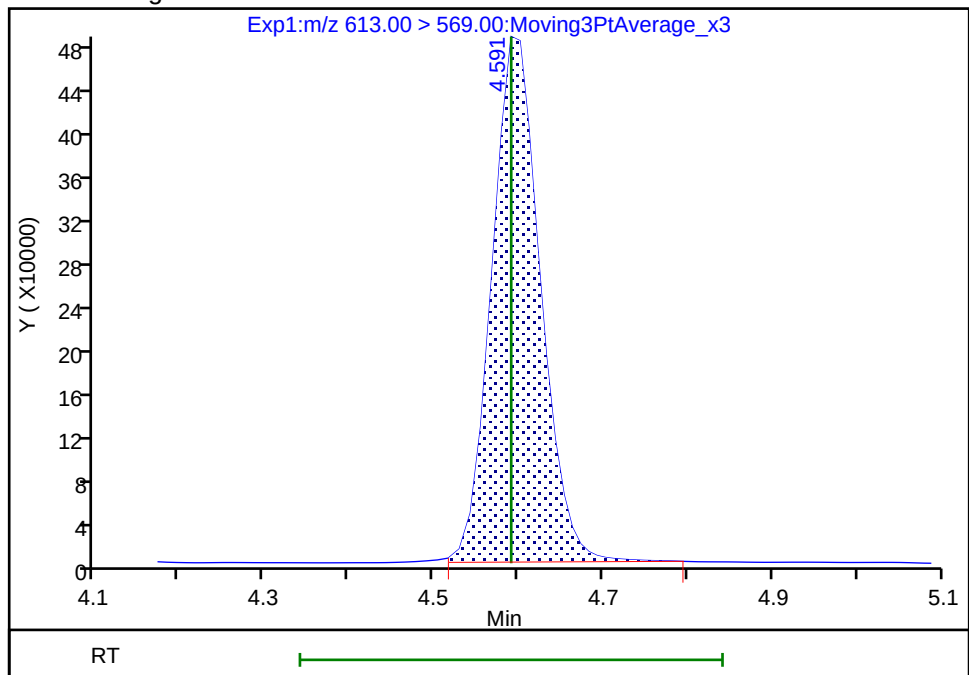
RT: 4.59
Area: 1962968
Amount: 0.983300
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 1949526
Amount: 0.976567
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:15
Audit Action: Manually Integrated

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Eurofins Burlington

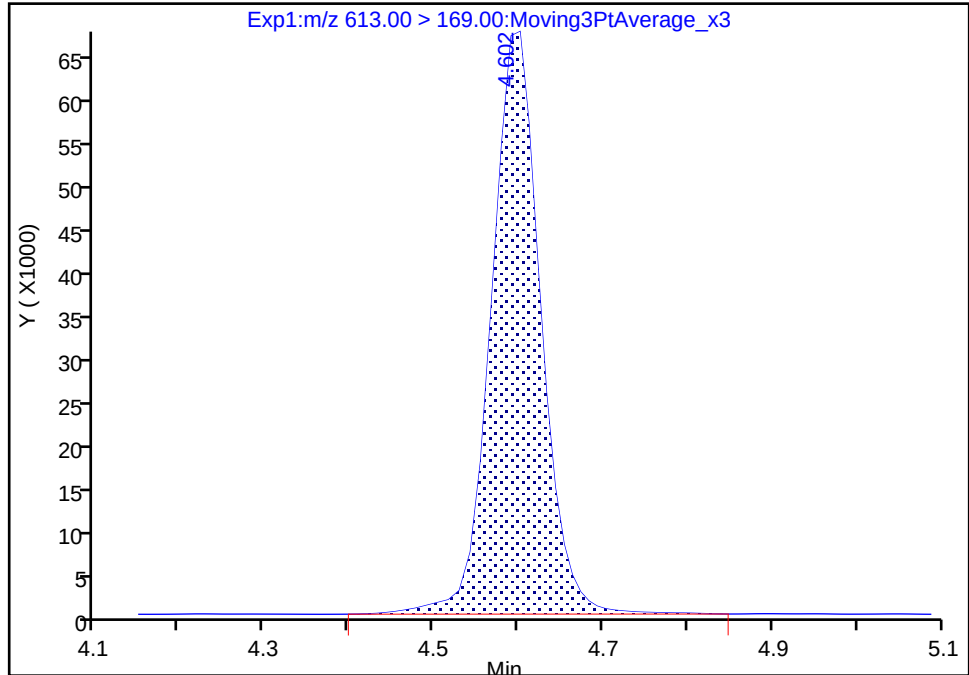
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

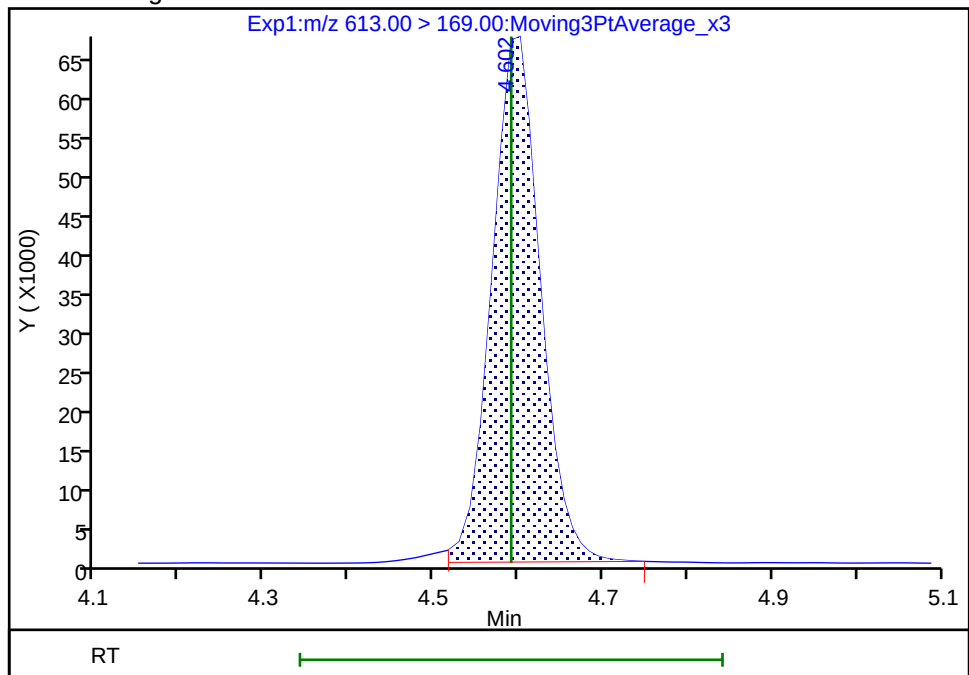
RT: 4.60
Area: 274375
Amount: 0.983300
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 268146
Amount: 0.976567
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

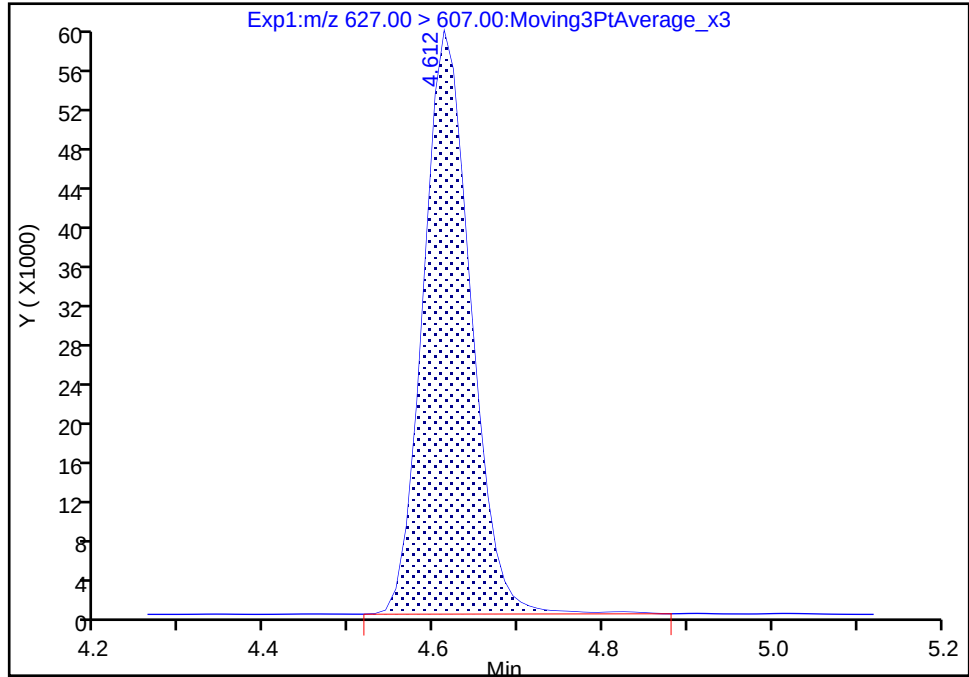
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

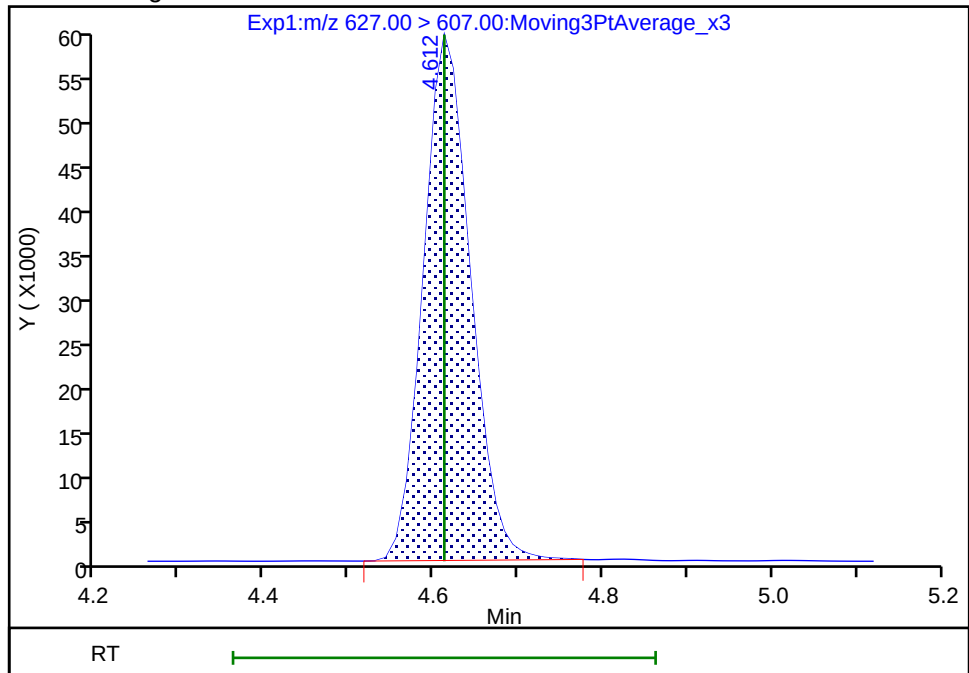
RT: 4.61
Area: 231961
Amount: 0.882195
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 230011
Amount: 0.874779
Amount Units: ng/ml

Manual Integration Results



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Audit Action: Manually Integrated

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Eurofins Burlington

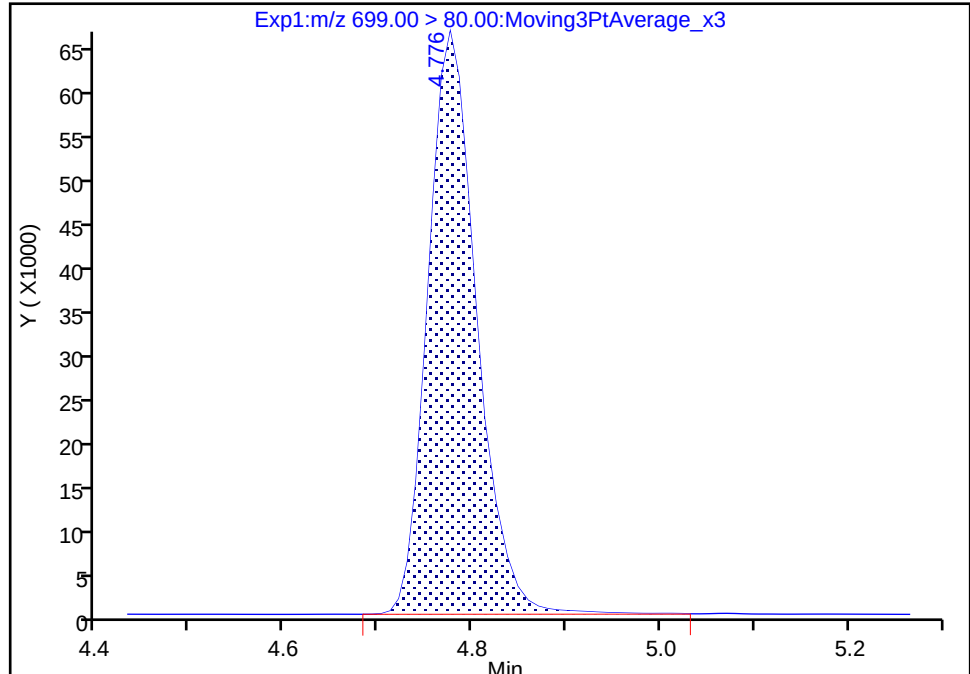
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

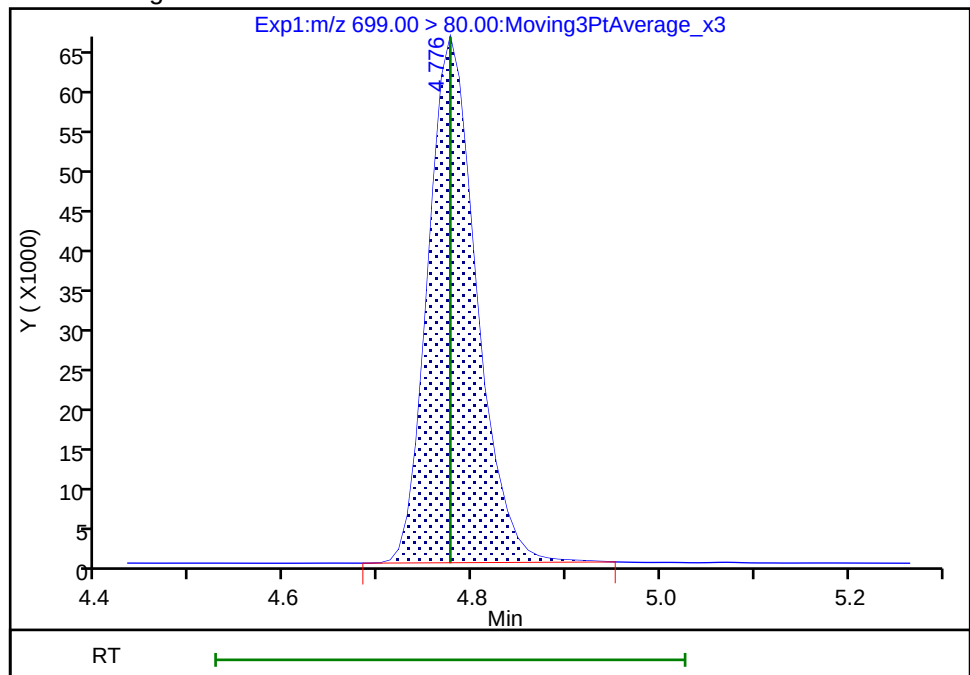
RT: 4.78
Area: 238904
Amount: 0.861661
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 237361
Amount: 0.856095
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:28
Audit Action: Manually Integrated

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Eurofins Burlington

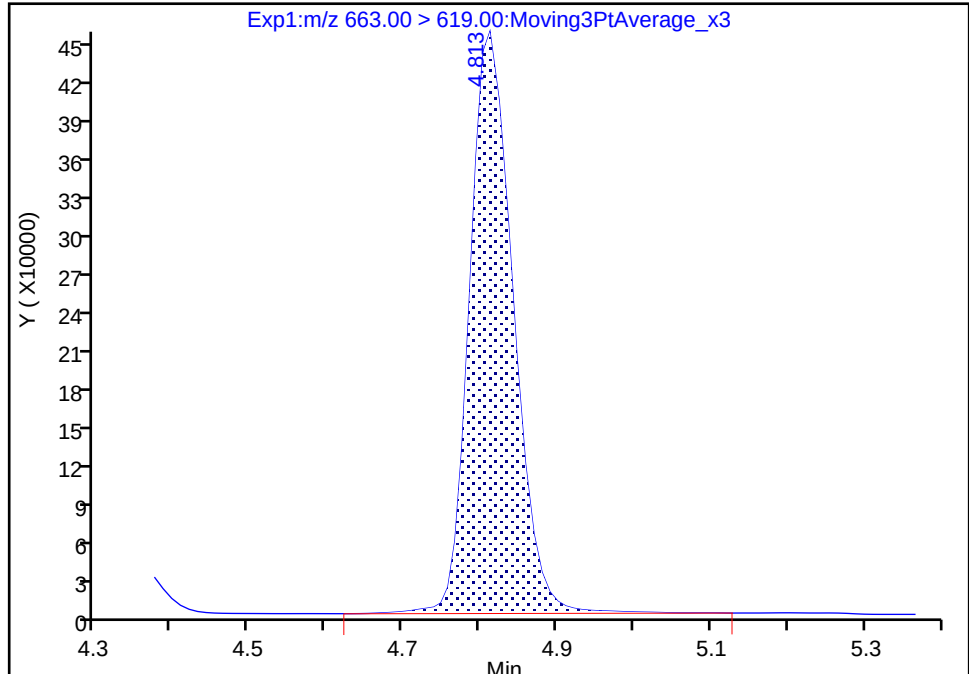
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

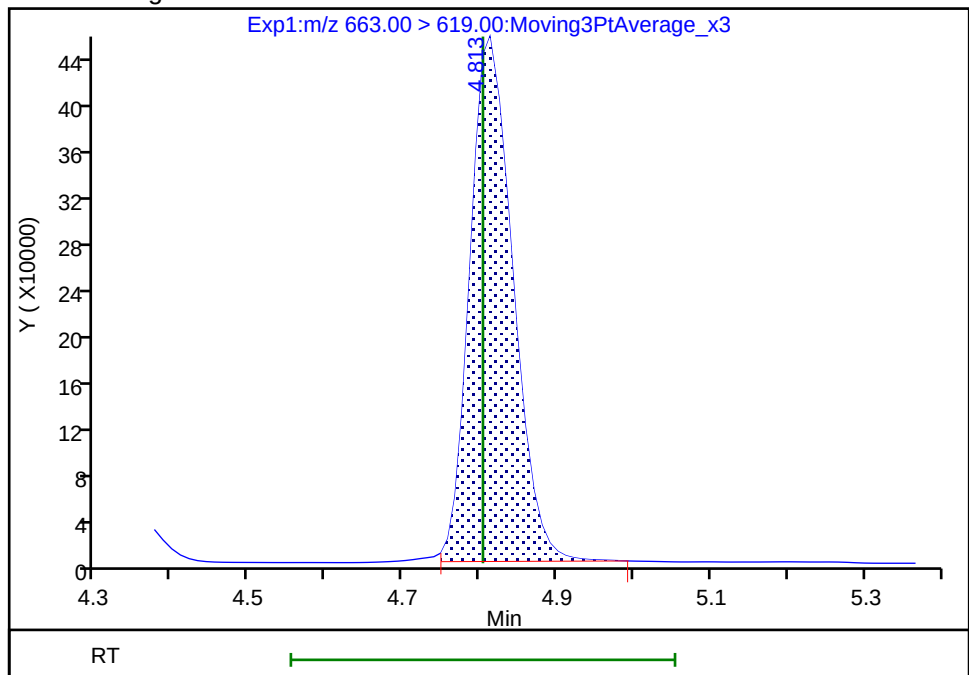
RT: 4.81
Area: 1771634
Amount: 0.927951
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1741096
Amount: 0.911955
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

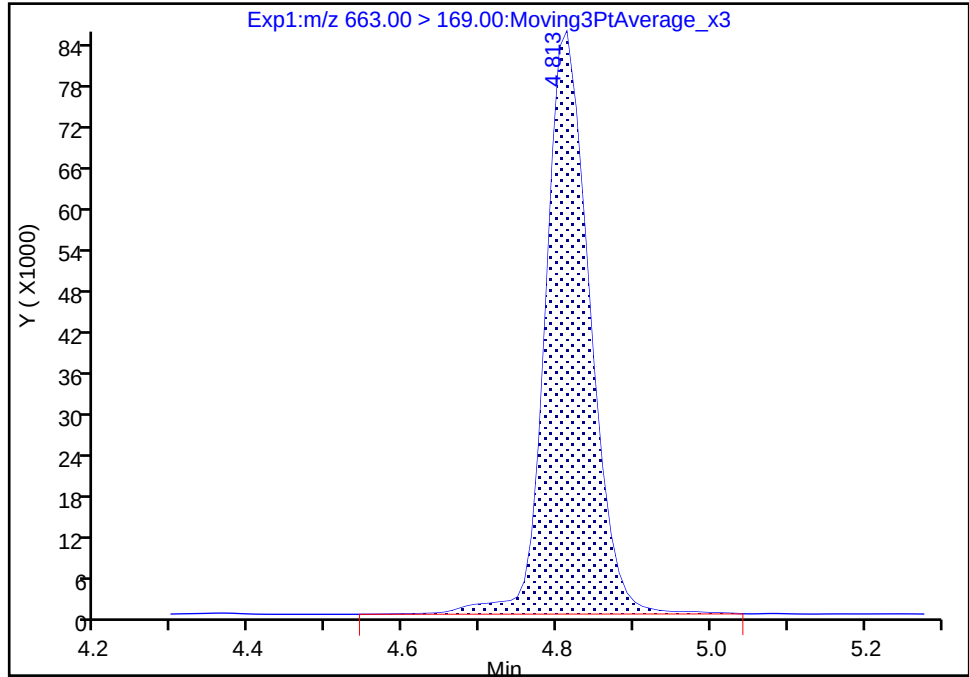
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

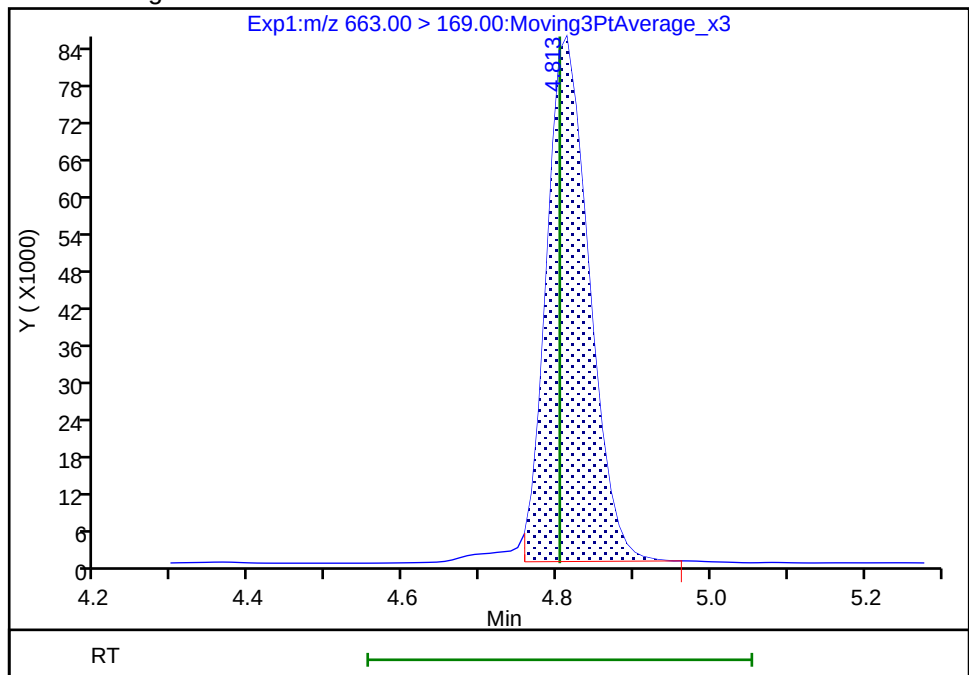
RT: 4.81
Area: 339583
Amount: 0.927951
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 325181
Amount: 0.911955
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

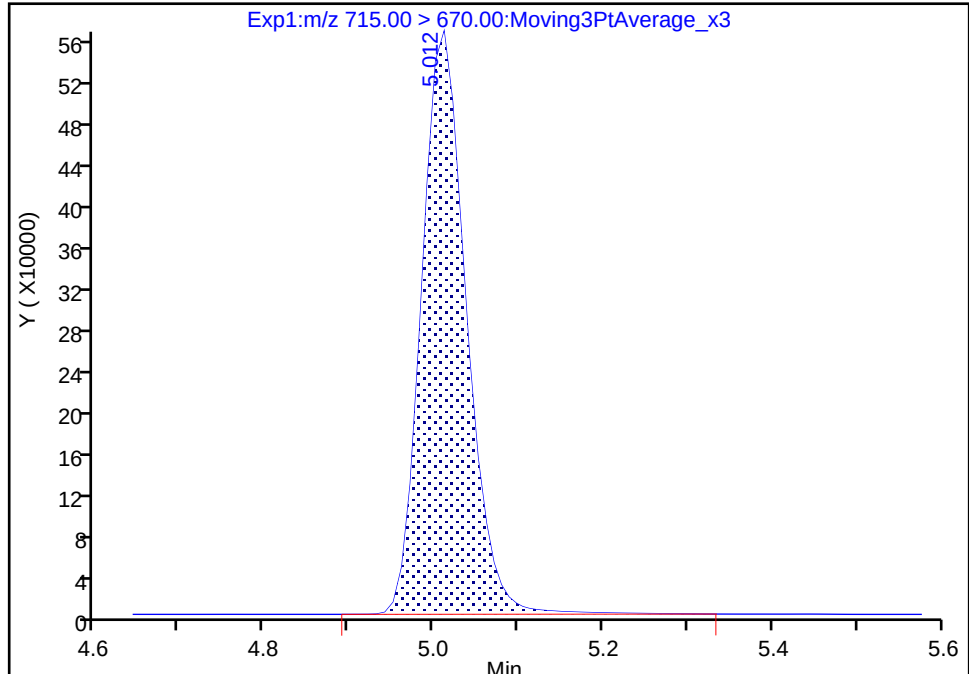
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

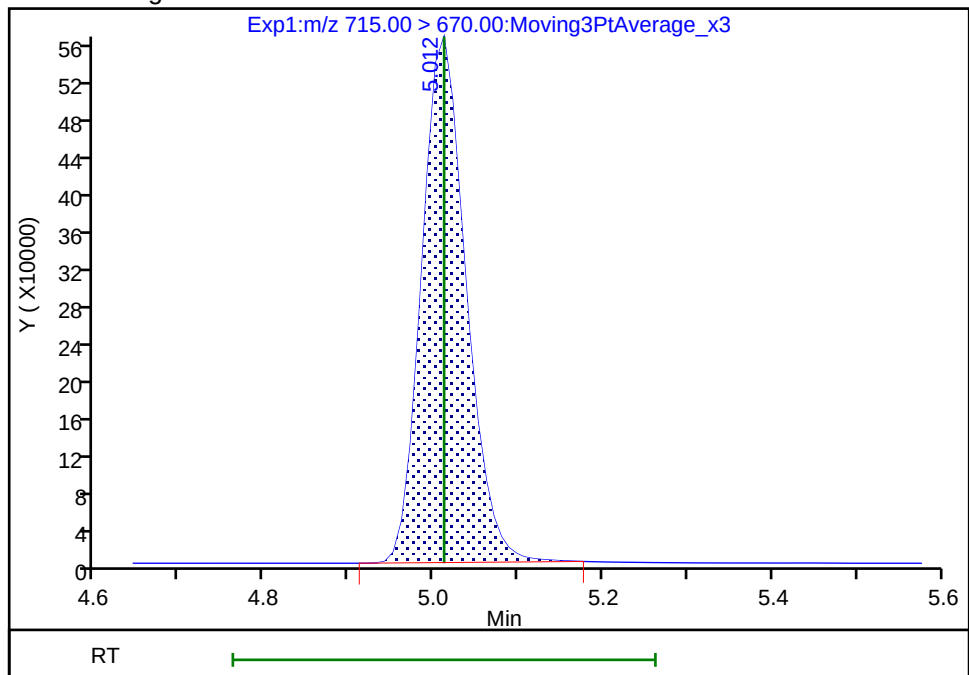
RT: 5.01
Area: 2079061
Amount: 1.082778
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 2059701
Amount: 1.072695
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

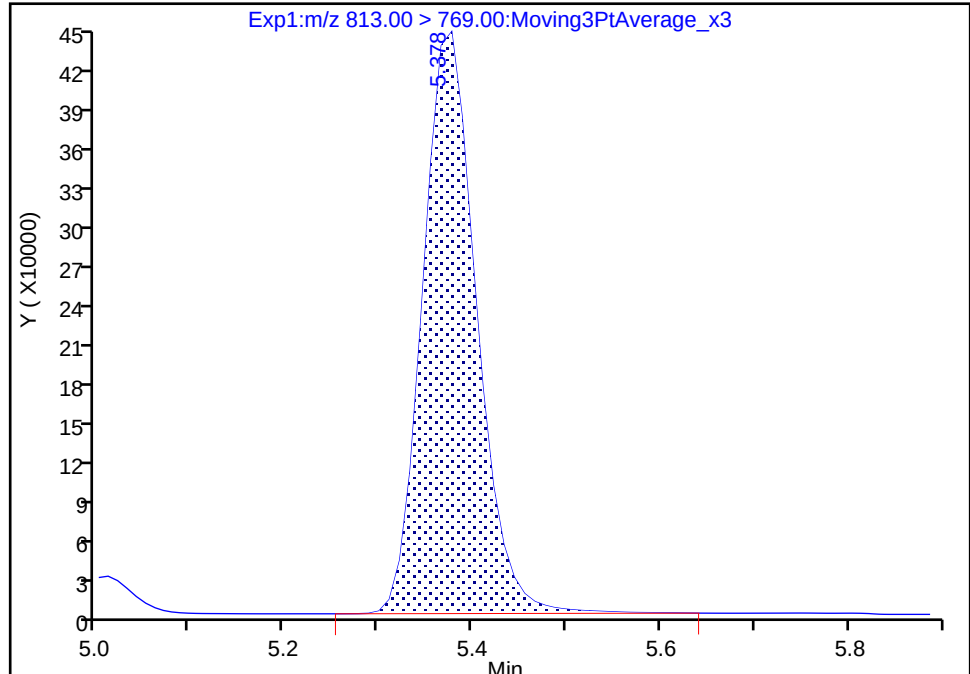
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

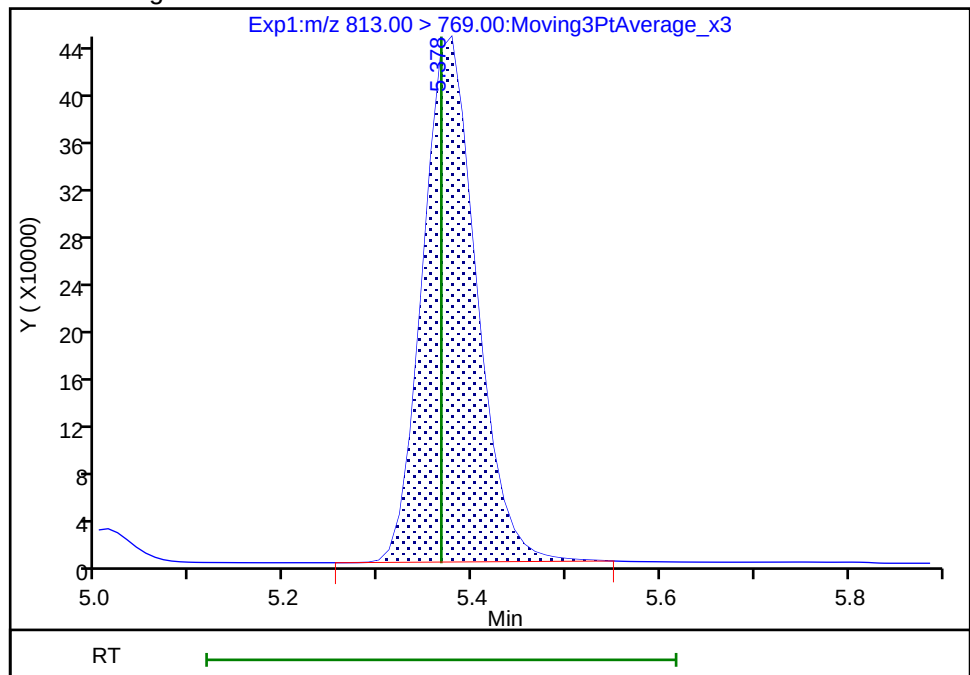
RT: 5.38
Area: 1762767
Amount: 0.891091
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 1751027
Amount: 0.885043
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

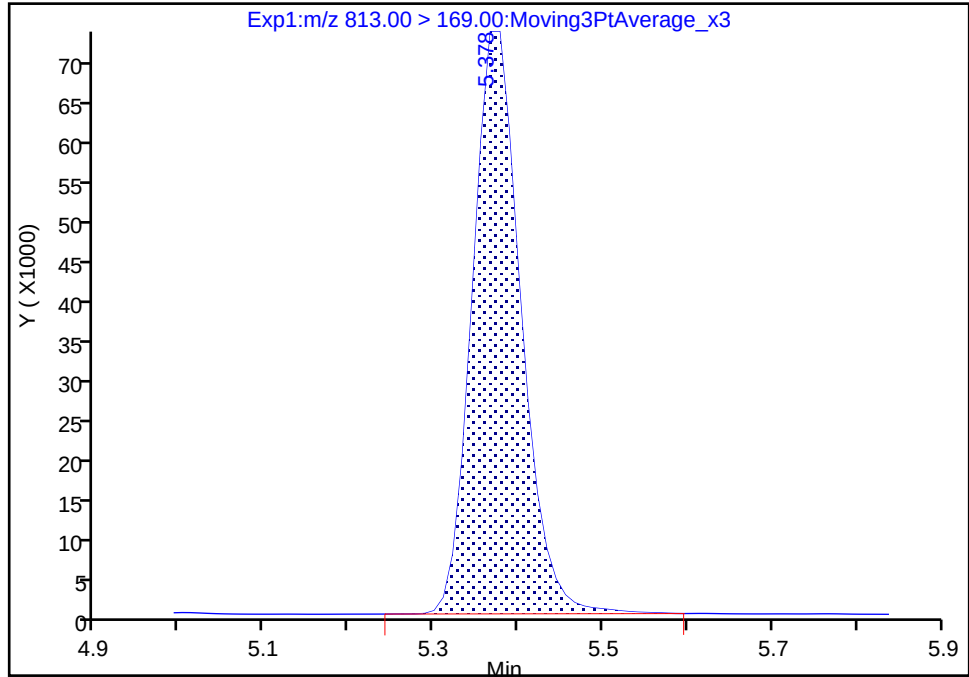
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

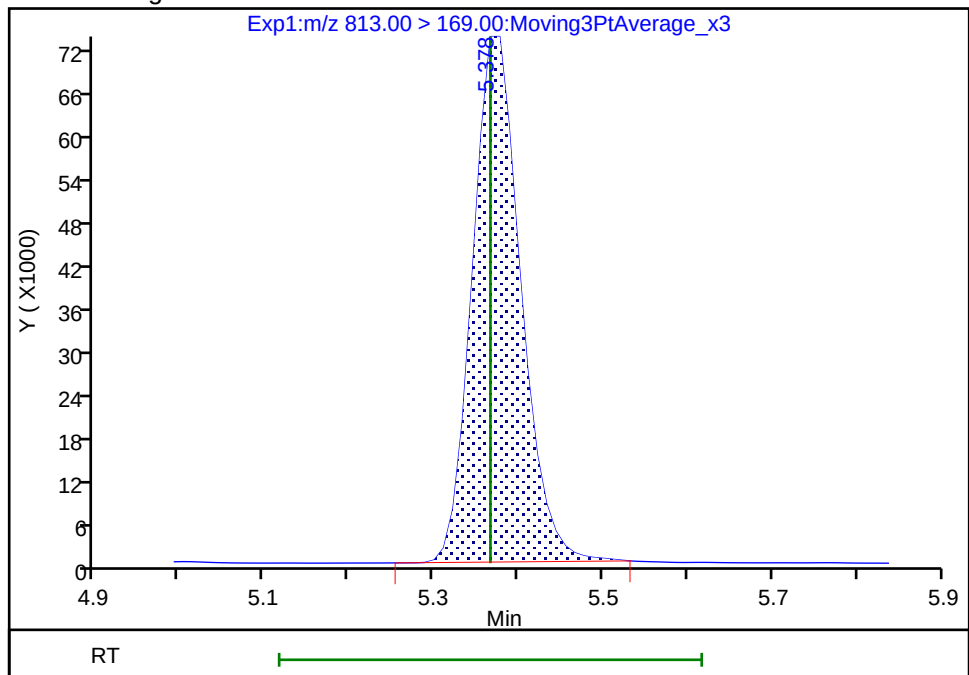
RT: 5.38
Area: 294445
Amount: 0.891091
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 292027
Amount: 0.885043
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

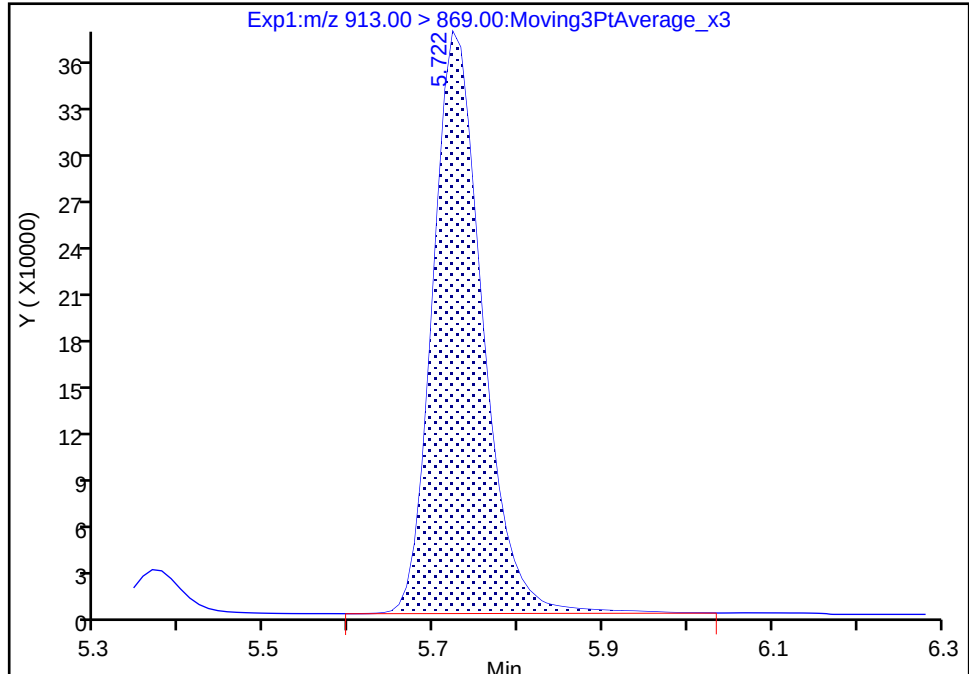
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

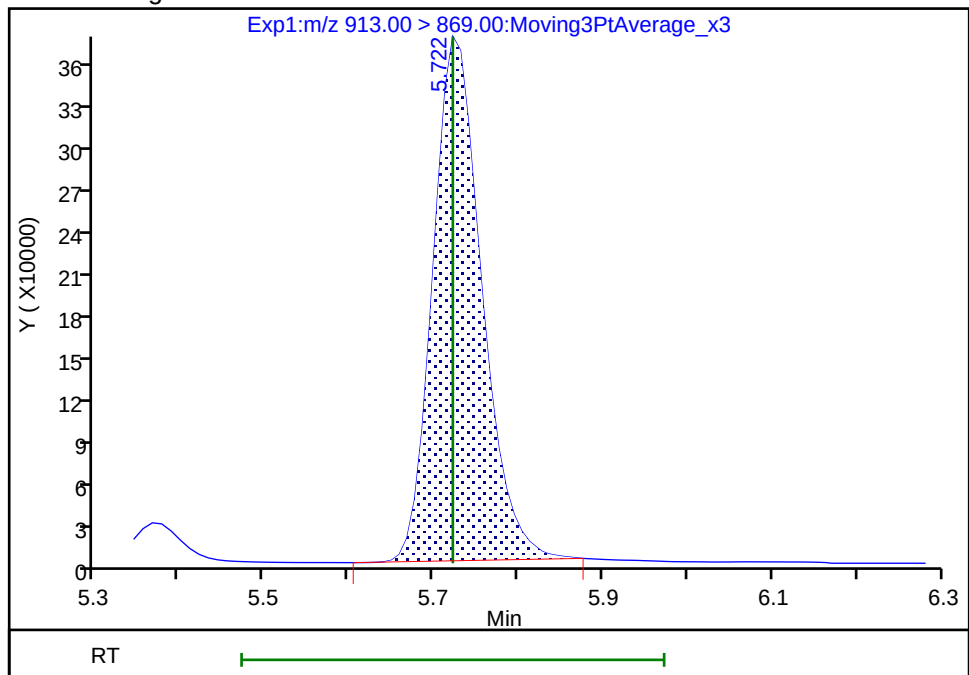
RT: 5.72
Area: 1522976
Amount: 0.876013
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 1490002
Amount: 0.857046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

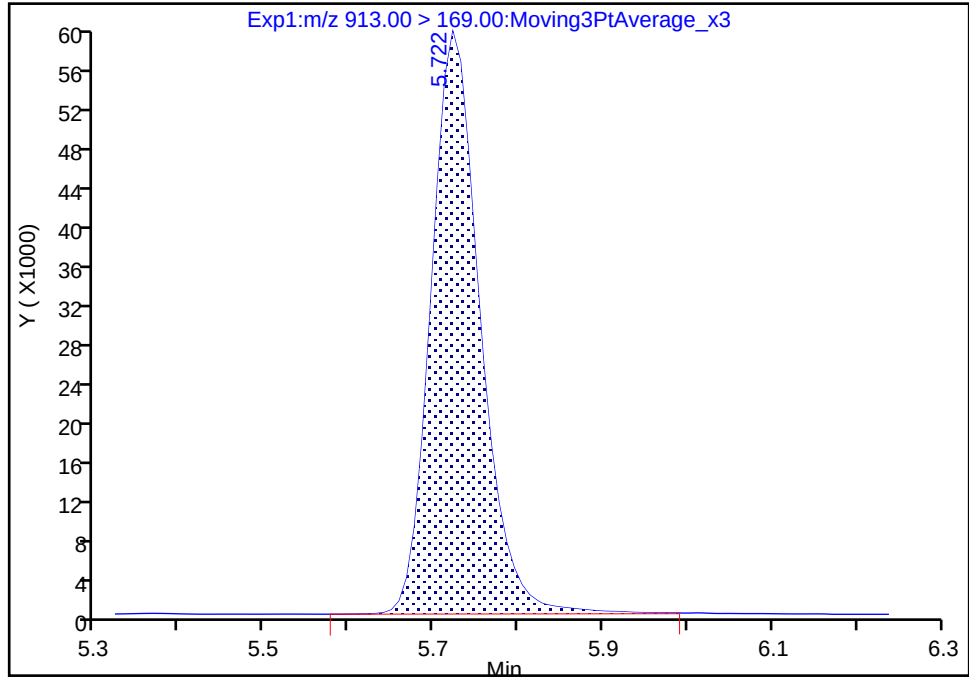
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

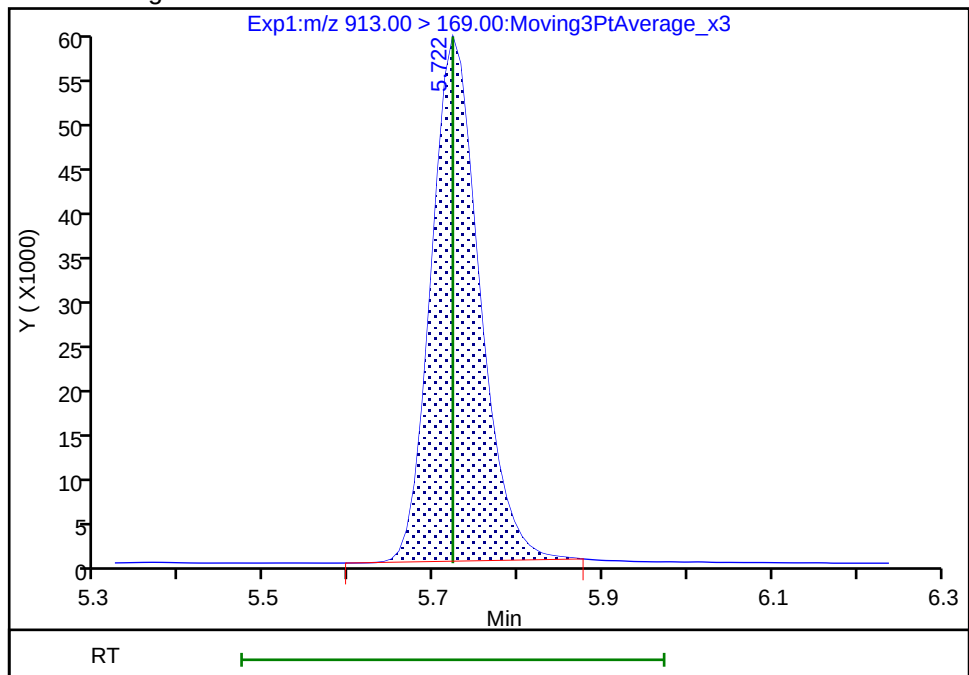
RT: 5.72
Area: 238468
Amount: 0.876013
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 233541
Amount: 0.857046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Lab Sample ID: CCVLIS 200-186802/5 Calibration Date: 12/16/2022 12:17

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221216A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.046		0.127	0.125	1.4	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.190		0.0546	0.0500	9.1	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.159		0.0448	0.0442	1.3	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.927		0.0444	0.0467	-5.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.180		0.0541	0.0500	8.3	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.271		0.0446	0.0469	-4.8	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9643		0.0913	0.100	-8.7	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.007		0.0462	0.0500	-7.5	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.176		0.0474	0.0455	4.2	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.425		0.0464	0.0471	-1.5	50.0
6:2 FTS	L1ID		2.218		0.113	0.119	-5.0	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.398		0.0477	0.0476	0.1	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.067		0.0499	0.0500	-0.2	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.234		0.0471	0.0464	1.5	50.0
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9485		0.0457	0.0500	-8.6	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.897		0.0484	0.0466	3.8	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8691		0.0454	0.0480	-5.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.014		0.0468	0.0500	-6.5	50.0
8:2 FTS	AveID	1.617	1.617		0.0479	0.0479	-0.0	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9377		0.0449	0.0500	-10.2	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8608		0.113	0.125	-9.2	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6789		0.0452	0.0482	-6.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	1.063		0.0527	0.0500	5.4	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8645		0.121	0.125	-3.4	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.356		0.0477	0.0471	1.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.099		0.0519	0.0500	3.7	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.058		0.0525	0.0482	8.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2953		0.0466	0.0484	-3.7	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Lab Sample ID: CCVLIS 200-186802/5 Calibration Date: 12/16/2022 12:17

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221216A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	1.060		0.0523	0.0500	4.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1301		0.0475	0.0500	-5.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.119		0.0438	0.0500	-12.5	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7776		0.0472	0.0500	-5.6	50.0
13C4 PFBA	Ave	1.122	1.017		1.13	1.25	-9.4	
13C5 PFPeA	Ave	0.8543	0.7809		1.14	1.25	-8.6	
13C3 PFBS	Ave	0.9281	0.8788		1.10	1.16	-5.3	
M2-4:2 FTS	Ave	0.0820	0.0760		1.08	1.17	-7.4	
13C2 PFHxA	Ave	0.8951	0.8770		1.23	1.25	-2.0	
13C3 HFPO-DA	Ave	0.1580	0.1590		1.26	1.25	0.7	
13C4 PFHpA	Ave	0.9206	0.8918		1.21	1.25	-3.1	
18O2 PFHxS	Ave	0.6761	0.6460		1.13	1.18	-4.5	
M2-6:2 FTS	Ave	0.1134	0.1082		1.13	1.19	-4.6	
13C4 PFOA	Ave	1.035	1.007		1.22	1.25	-2.8	
13C4 PFOS	Ave	0.4588	0.4399		1.15	1.20	-4.1	
13C5 PFNA	Ave	1.006	1.074		1.34	1.25	6.8	
13C2 PFDA	Ave	1.025	1.091		1.33	1.25	6.4	
M2-8:2 FTS	Ave	0.1387	0.1320		1.14	1.20	-4.8	
13C8 FOSA	Ave	0.8403	0.8168		1.22	1.25	-2.8	
d3-NMeFOSAA	Ave	0.2087	0.2050		1.23	1.25	-1.8	
13C2 PFUnA	Ave	0.9385	1.009		1.34	1.25	7.5	
d5-NEtFOSAA	Ave	0.2055	0.2148		1.31	1.25	4.5	
13C2 PFDoA	Ave	0.9562	0.9735		1.27	1.25	1.8	
13C2 PFTeDA	Ave	0.8270	0.9489		1.43	1.25	14.7	
13C2 PFHxDA	Ave	1.022	1.201		1.47	1.25	17.5	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 16-Dec-2022 12:17:50 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0053717-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: Z1IP

Date: 16-Dec-2022 12:33:34

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	2.085	2.076	0.009	0.602	2790108	1.13		90.6	8342	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	291880	0.1268		101	26.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.387	0.013	0.693	2143144	1.14		91.4	3444	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.387	0.013	1.000	101973	0.0546		109	3.0	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.400	0.013	0.696	2242993	1.10		94.7	195703	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.427	2.400	0.027	1.006	98850	0.0448	Target=2.09	101	123	M
298.90 > 99.00	2.427	2.400	0.027	1.006	44413		2.23(1.04-3.13)		38.3	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.713	2.689	0.024	1.000	22798	0.0444		95.0	239	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.713	2.689	0.024	0.783	194735	1.08		92.6	182	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.790	2407099	1.22		98.0	5188	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.750	2.725	0.025	1.004	113595	0.0541	Target=14.25	108	25.5	M
313.00 > 119.00	2.750	2.725	0.025	1.004	7714		14.73(7.12-21.37)		14.7	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.750	2.737	0.013	0.884	84562	0.0446	Target=3.04	95.2	132	M
349.00 > 99.00	2.750	2.737	0.013	0.884	28532		2.96(1.52-4.56)		100	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.847	2.835	0.012	1.000	33674	0.0913		91.3	133	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.847	2.835	0.012	0.822	436488	1.26		101	1879	
D 11 18O2 PFHxS										
403.00 > 84.00	3.110	3.088	0.022	0.897	1677356	1.13		95.5	1697	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.110	3.088	0.022	1.000	75888	0.0474	Target=3.66	104	146	M
399.00 > 99.00	3.110	3.088	0.022	1.000	21658		3.50(1.83-5.49)		45.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.110	3.099	0.011	0.897	2447546	1.21		96.9	3364	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.110	3.099	0.011	1.000	98578	0.0462	Target=3.97	92.5	18.4	M
363.00 > 169.00	3.110	3.099	0.011	1.000	24965		3.95(1.98-5.95)		57.4	M
77 DONA										
377.00 > 251.00	3.143	3.132	0.011	0.833	246799	0.0464	Target=3.16	98.5	388	
377.00 > 85.00	3.143	3.132	0.011	0.833	77419		3.19(1.58-4.73)		159	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.448	3.439	0.009	0.995	282022	1.13		95.4	707	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.448	3.439	0.009	1.000	62416	0.1125		95.0	236	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.448	3.439	0.009	0.914	64292	0.0477	Target=5.14	100	178	M
449.00 > 99.00	3.448	3.439	0.009	0.914	14359		4.48(2.57-7.72)		85.0	M
D 14 13C4 PFOA										
417.00 > 372.00	3.465	3.448	0.017	1.000	2762467	1.22		97.2	4107	
* 62 13C2 PFOA										
415.00 > 370.00	3.465	3.448	0.017		2744555	1.25			4341	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.465	3.448	0.017	1.000	117902	0.0499	Target=2.79	99.8	9.8	M
413.00 > 169.00	3.465	3.448	0.017	1.000	43559		2.71(1.40-4.19)		73.1	M
D 18 13C4 PFOS										
503.00 > 80.00	3.774	3.764	0.010	1.089	1154143	1.15		95.9	3313	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.774	3.764	0.010	1.000	55308	0.0471	Target=5.11	101	61.1	M
499.00 > 99.00	3.783	3.764	0.019	1.003	11870		4.66(2.55-7.66)		47.9	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.793	3.783	0.010	1.000	111863	0.0457	Target=8.55	91.4	27.8	M
463.00 > 169.00	3.793	3.783	0.010	1.000	14634		7.64(4.28-12.83)		151	M
D 19 13C5 PFNA										
468.00 > 423.00	3.793	3.783	0.010	1.094	2948529	1.34		107	4608	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.940	3.928	0.012	1.044	130405	0.0484		104	677	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.071	4.050	0.021	1.079	40291	0.0454	Target=2.53	94.7	284	
549.00 > 99.00	4.071	4.050	0.021	1.079	17547		2.30(1.27-3.80)		143	
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.181	2993670	1.33		106	4916	

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	4.093	4.081	0.012	1.000	121453	0.0468	Target=10.26	93.5	55.3	
513.00 > 169.00	4.093	4.081	0.012	1.000	11928		10.18(5.13-15.38)		39.4	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.093	0.011	1.184	347106	1.14		95.2	1146	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.093	0.011	1.000	22445	0.0479		100.0	185	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.162	4.150	0.012	1.000	84089	0.0449		89.8	227	
D 21 13C8 FOSA										
506.00 > 78.00	4.162	4.150	0.012	1.201	2241855	1.22		97.2	2391	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.238	4.228	0.010	1.223	562606	1.23		98.2	1507	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.000	48429	0.1135		90.8	114	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.342	4.331	0.011	1.151	31606	0.0452	Target=2.51	93.7	278	
599.00 > 99.00	4.342	4.331	0.011	1.151	12747		2.48(1.25-3.76)		131	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.365	4.353	0.012	1.260	2769219	1.34		108	6106	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.365	4.353	0.012	1.000	117712	0.0527	Target=9.88	105	55.0	
563.00 > 169.00	4.365	4.353	0.012	1.000	11762		10.01(4.94-14.82)		131	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.000	50961	0.1207		96.6	264	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.376	4.365	0.011	1.263	589476	1.31		105	1167	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.465	4.454	0.011	1.183	198153	0.0477		101	704	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.602	4.591	0.011	1.000	117455	0.0519	Target=7.77	104	9.5	M
613.00 > 169.00	4.602	4.591	0.011	1.000	13293		8.84(3.89-11.66)		108	
D 36 13C2 PFDaA										M
615.00 > 570.00	4.602	4.591	0.011	1.328	2671956	1.27		102	2847	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.622	4.612	0.010	1.126	14785	0.0525		109	243	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.785	4.776	0.009	1.268	13804	0.0466	Target=0.50	96.3	125	
699.00 > 99.00	4.785	4.776	0.009	1.268	27084		0.51(0.25-0.76)		688	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.825	4.804	0.021	1.048	113266	0.0523	Target=5.21	105	8.6	
663.00 > 169.00	4.813	4.804	0.009	1.046	19827		5.71(2.60-7.81)		151	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.022	5.012	0.010	1.000	13555	0.0475	Target=0.89	95.0	138	
713.00 > 219.00	5.022	5.012	0.010	1.000	13914		0.97(0.44-1.33)		124	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.022	5.012	0.010	1.449	2604331	1.43		115	5709	

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	5.389	5.367	0.022	1.002	147549	0.0438	Target=5.65	87.5	13.9	
813.00 > 169.00	5.389	5.367	0.022	1.002	23328		6.32(2.82-8.47)		188	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.367	0.011	1.552	3297325	1.47		118	5997	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.740	5.722	0.018	1.067	102566	0.0472	Target=6.24	94.4	12.1	M
913.00 > 169.00	5.740	5.722	0.018	1.067	14710		6.97(3.12-9.36)		168	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d

Injection Date: 16-Dec-2022 12:17:50

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

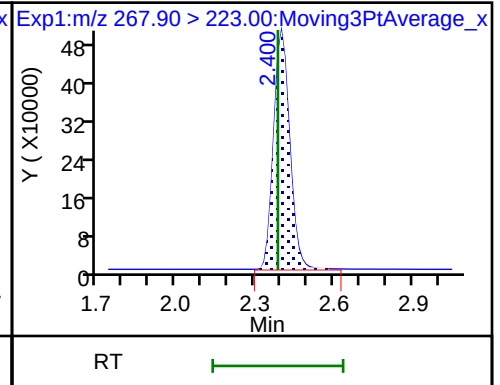
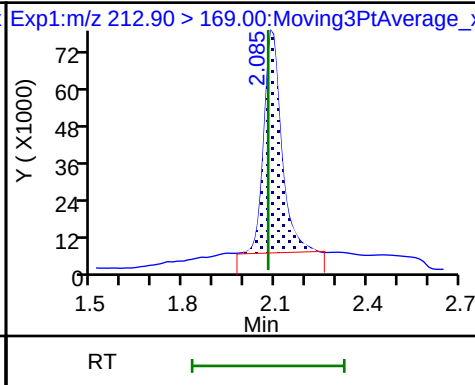
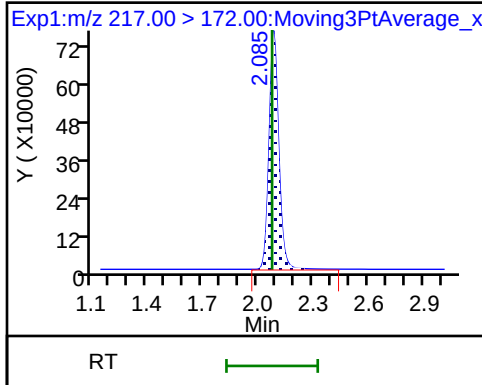
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

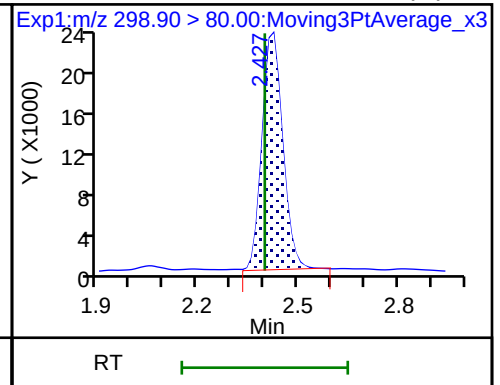
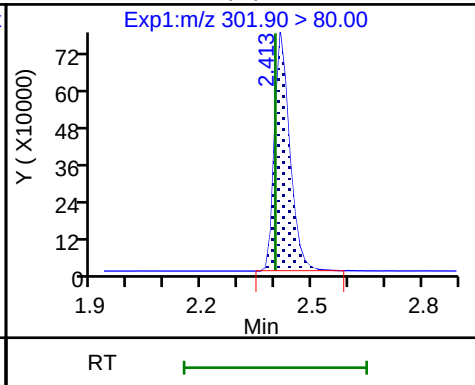
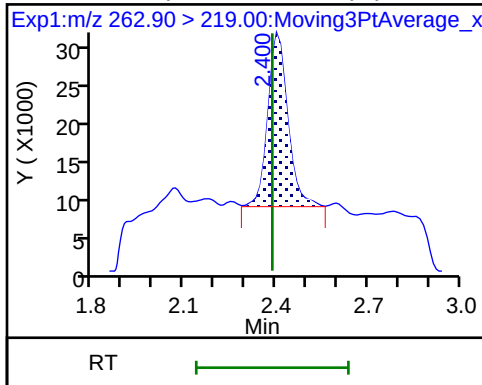
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

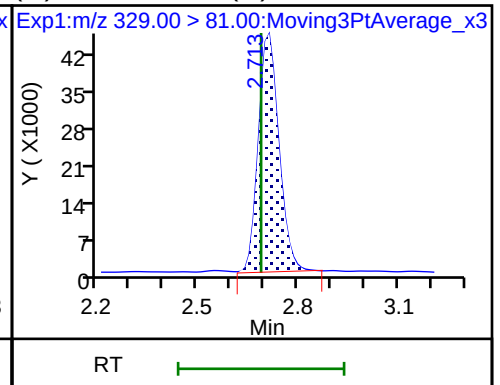
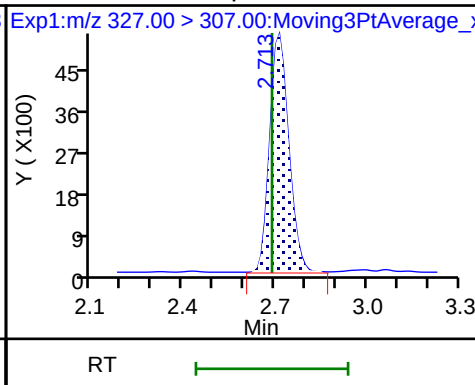
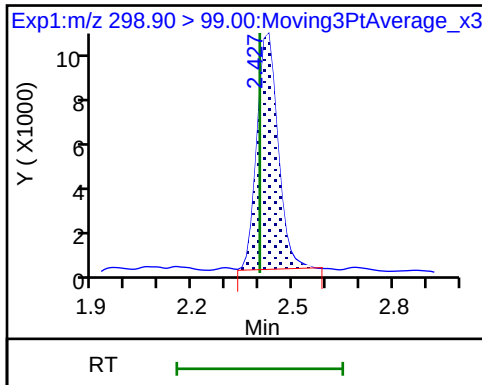
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

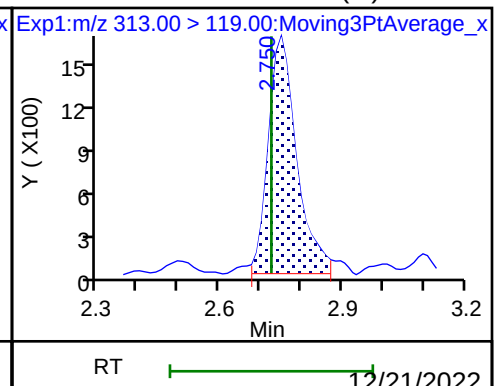
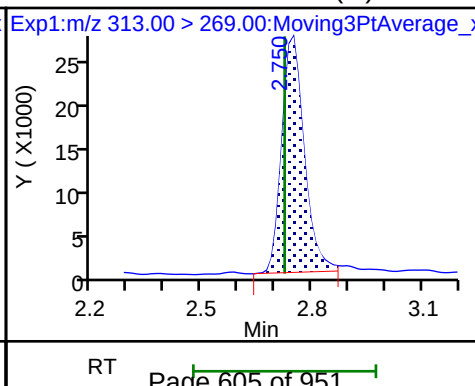
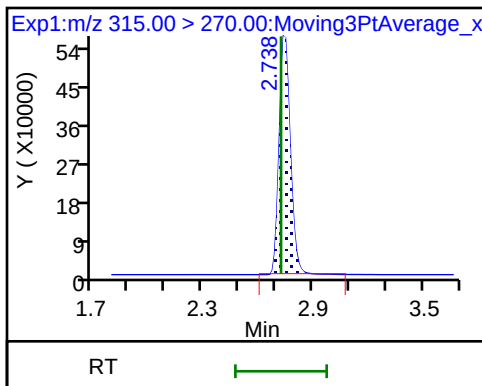
D 50 M2-4:2 FTS (M)

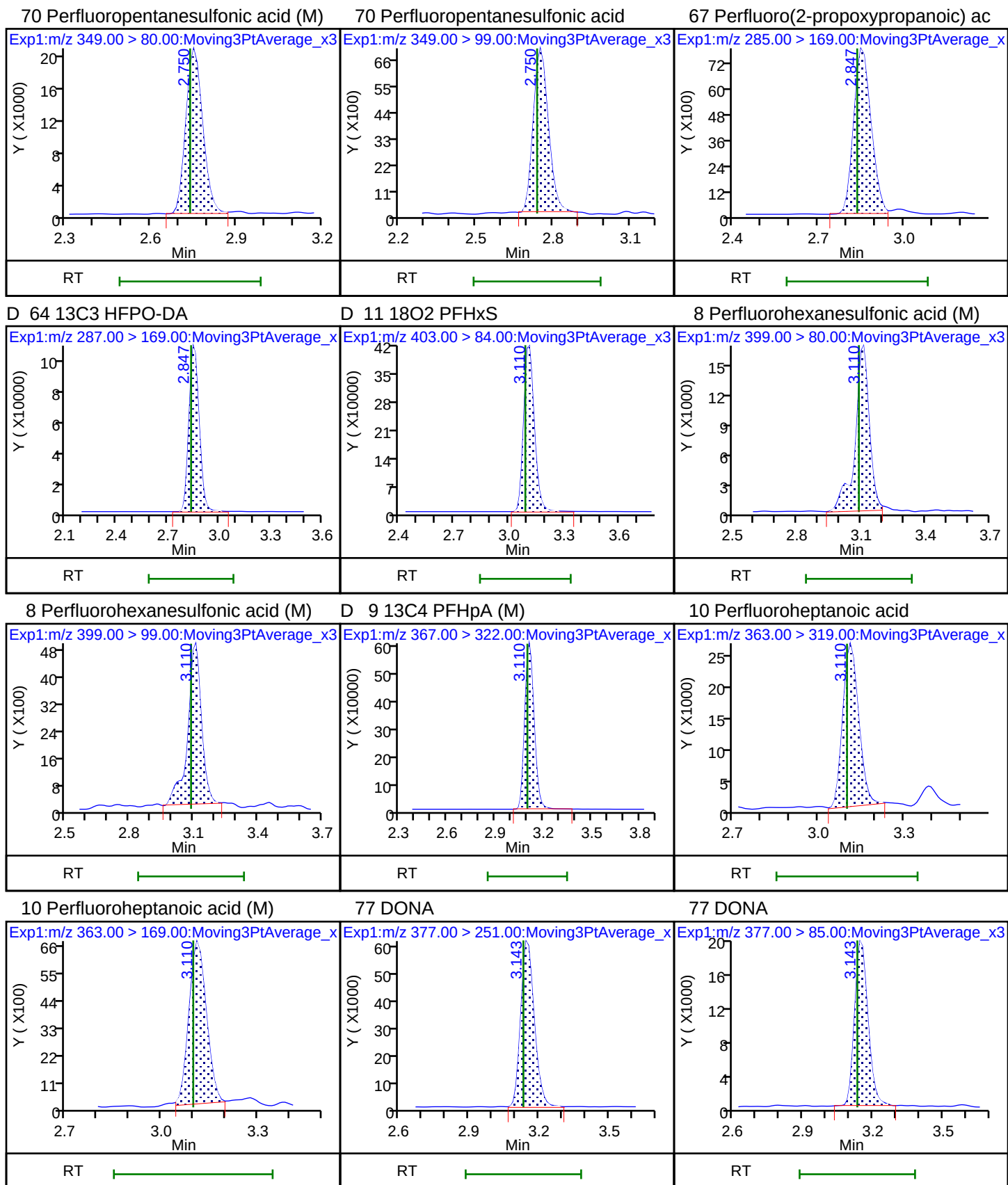


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

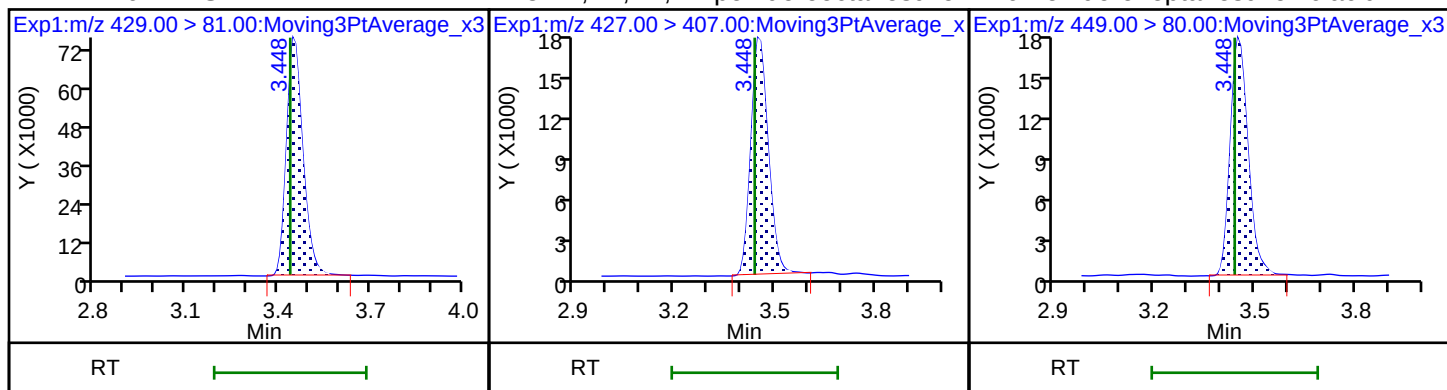




D 12 M2-6:2 FTS

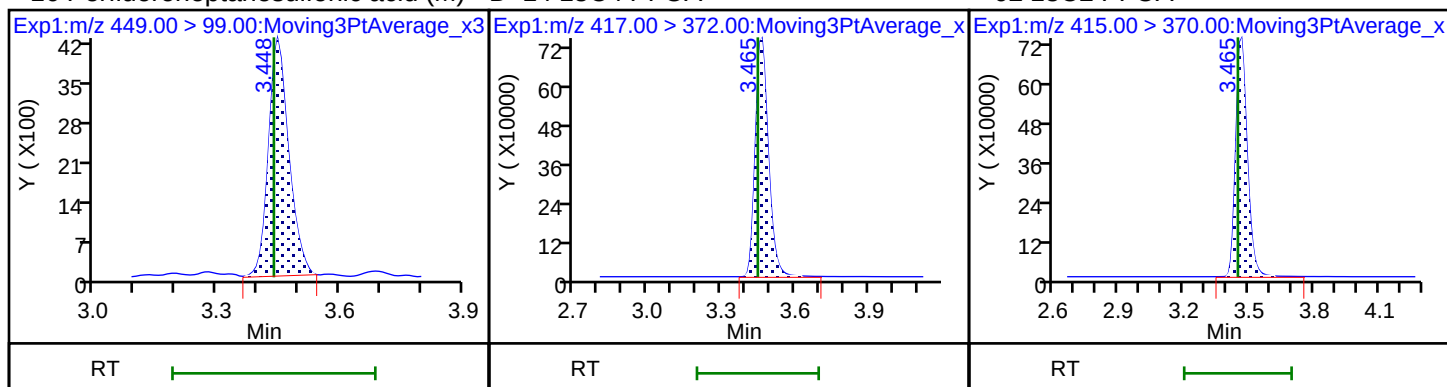
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

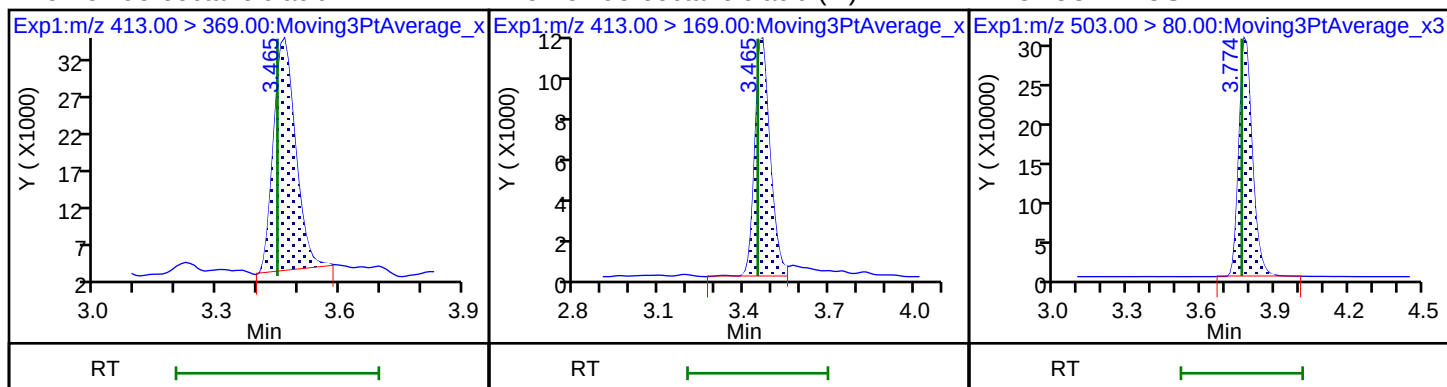
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

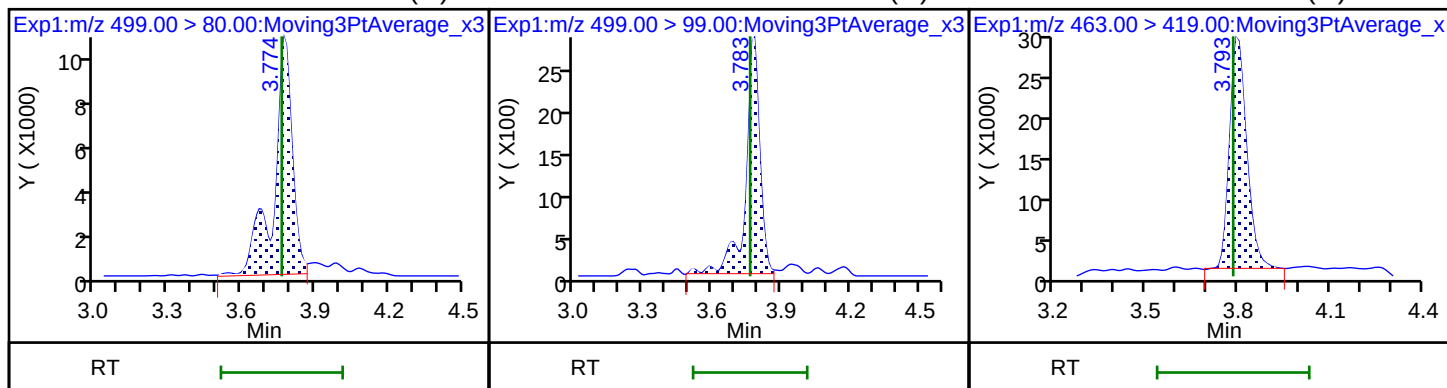
D 18 13C4 PFOS

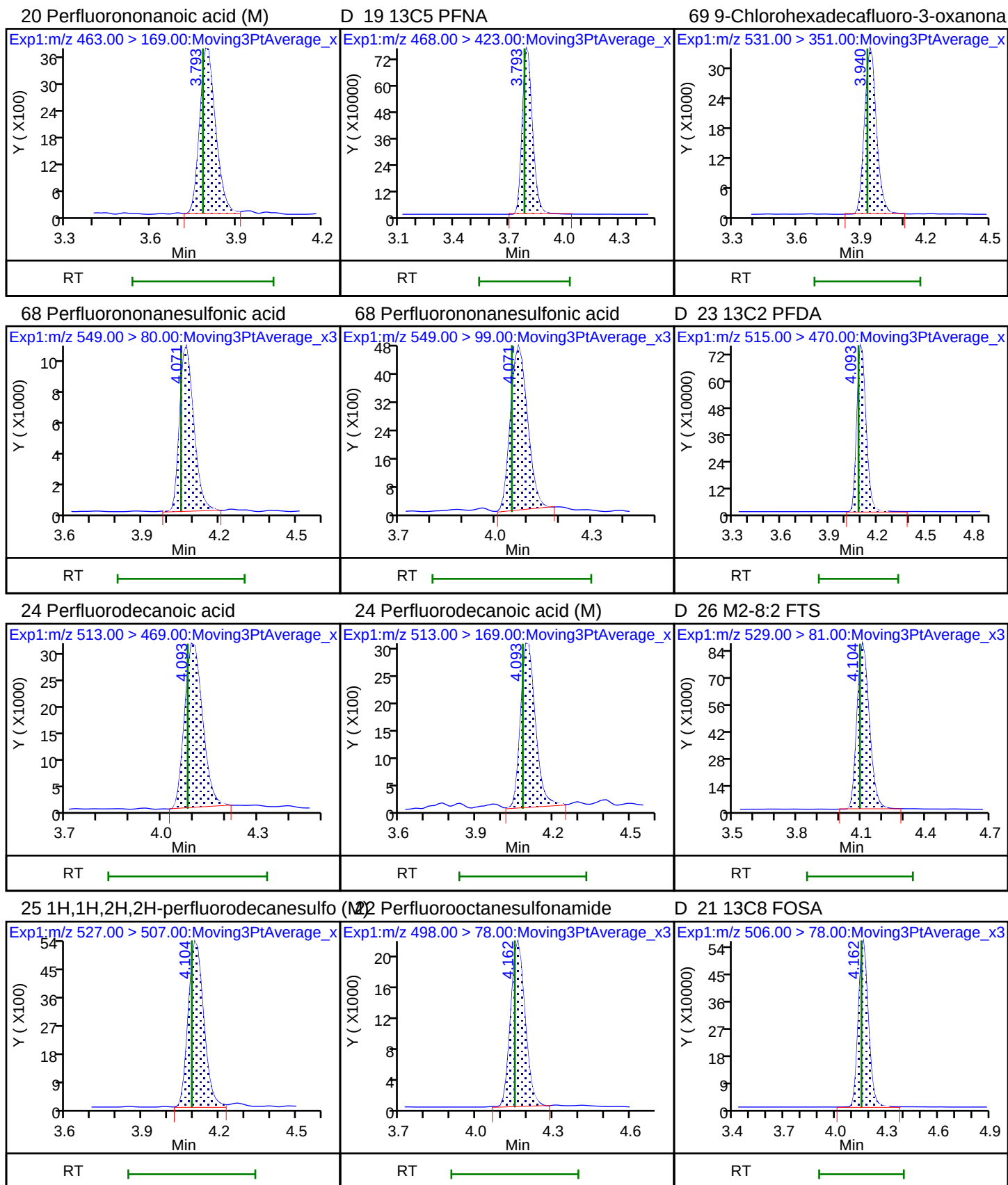


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

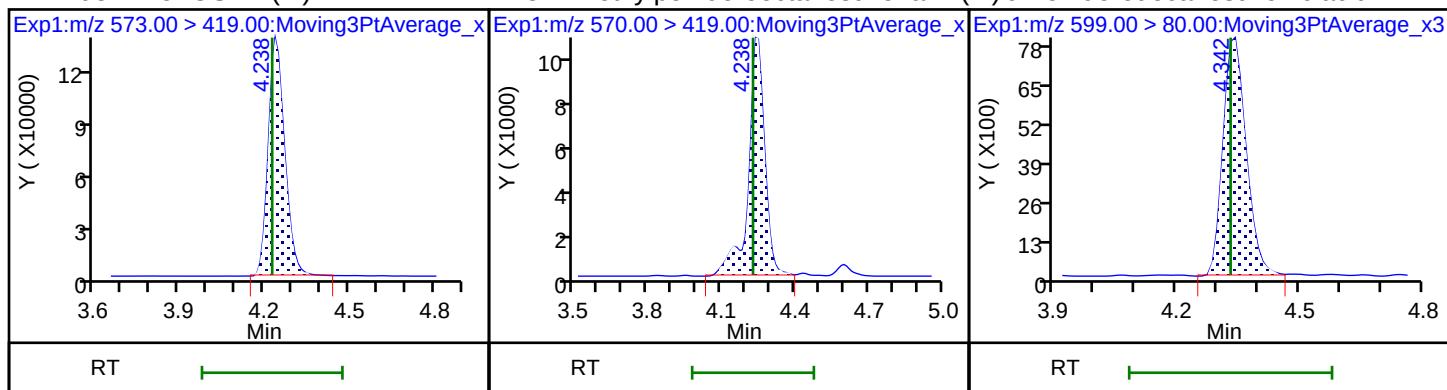




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

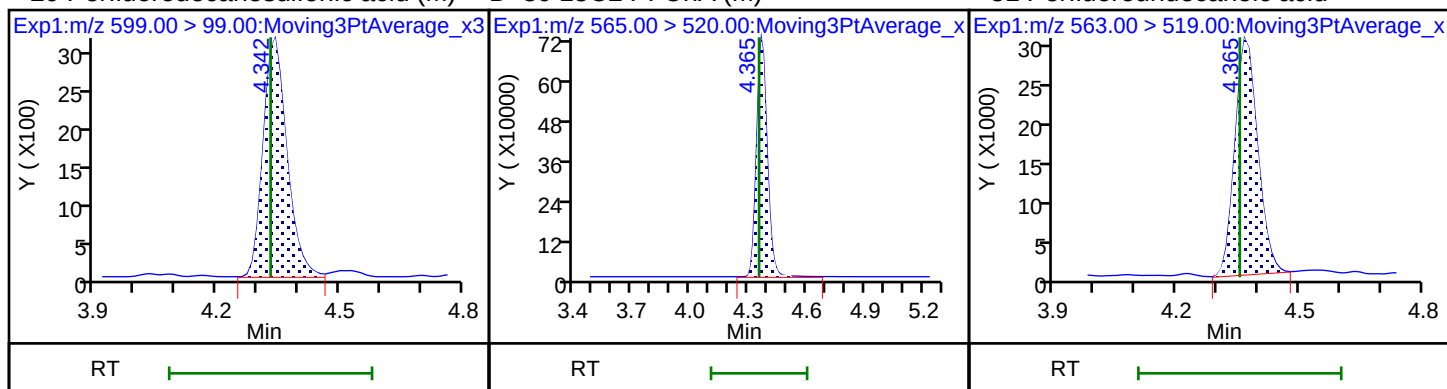
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

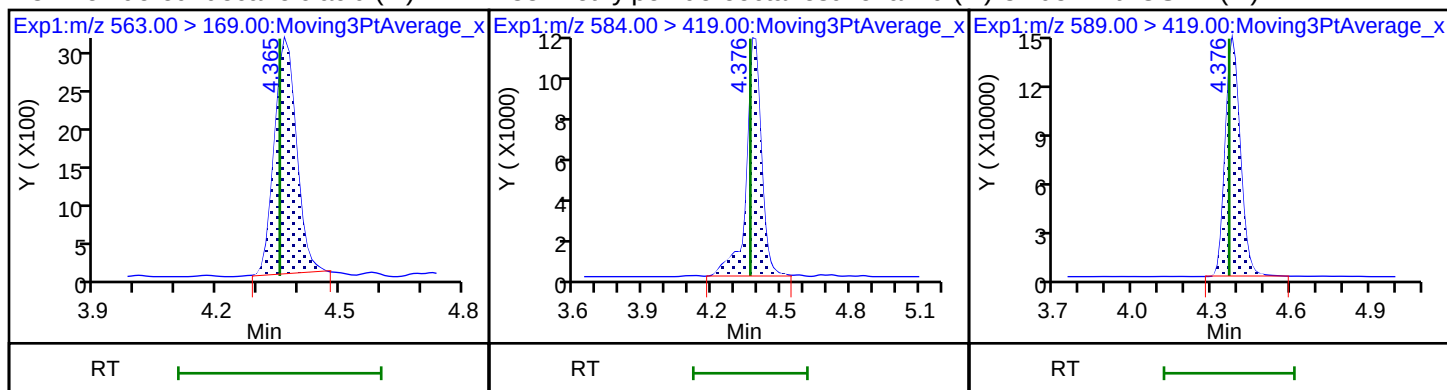
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

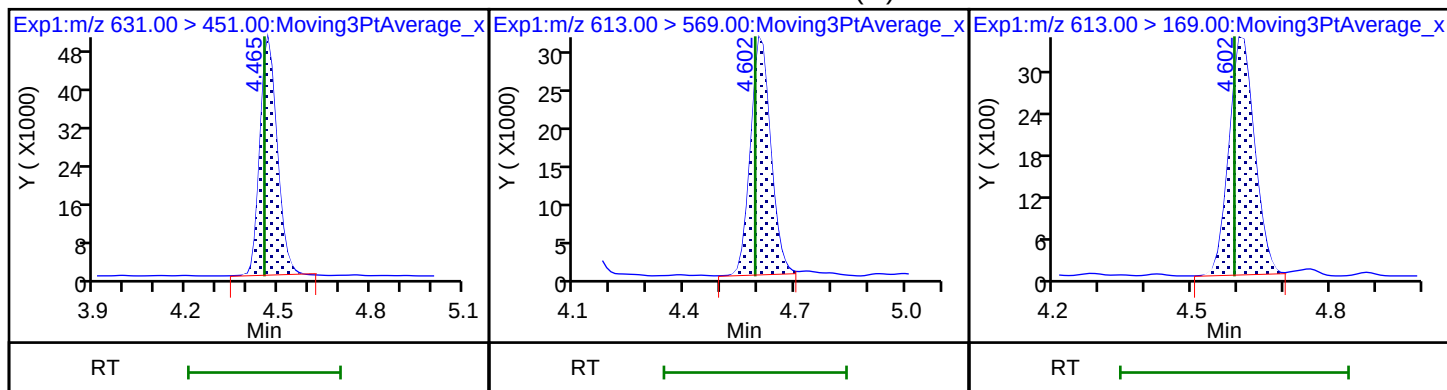
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

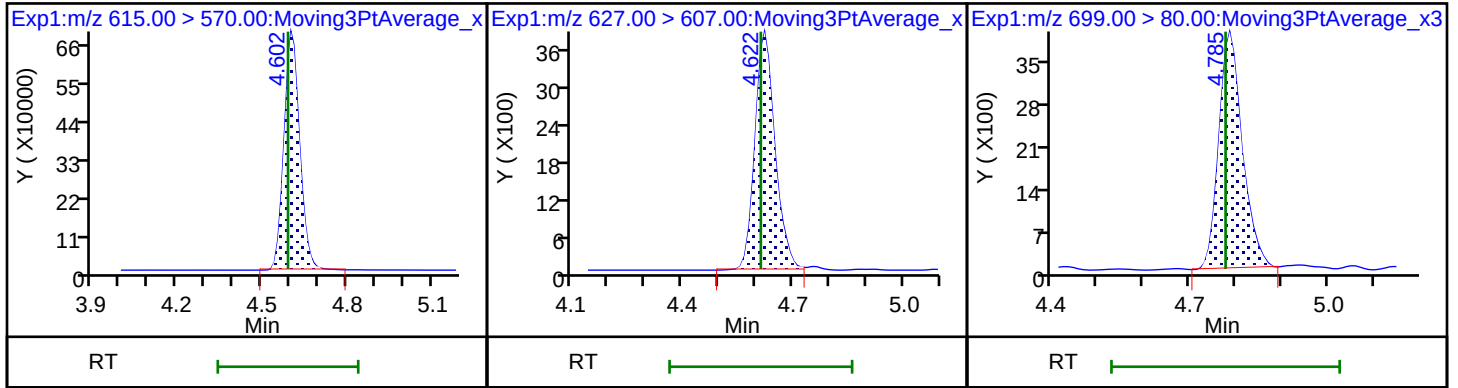
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDa (M)

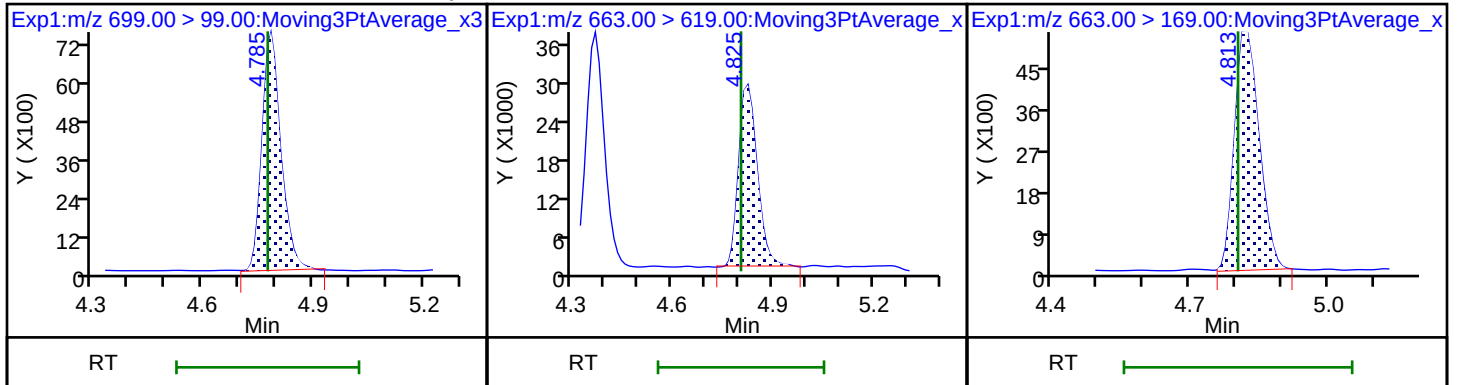
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M)

41 Perfluorotridecanoic acid

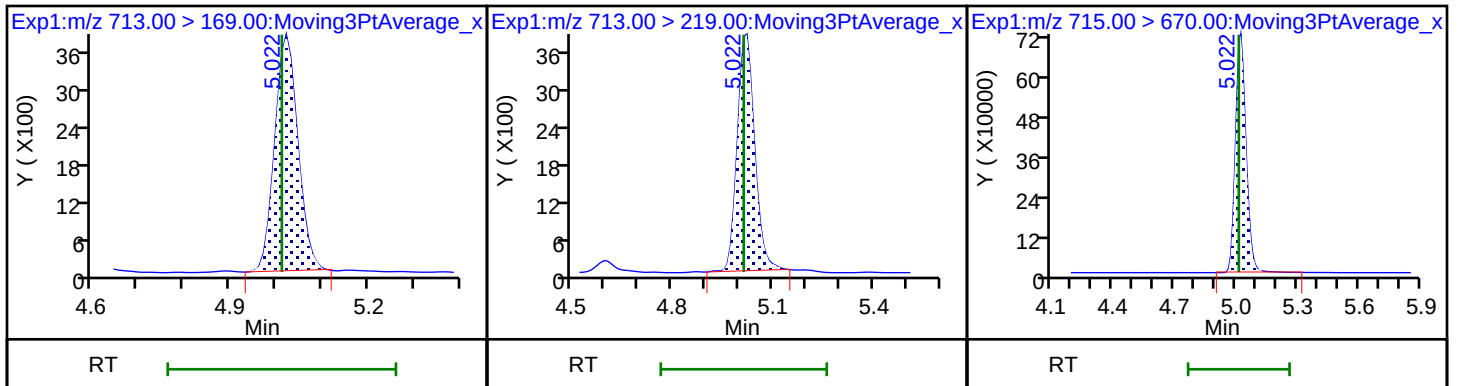
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

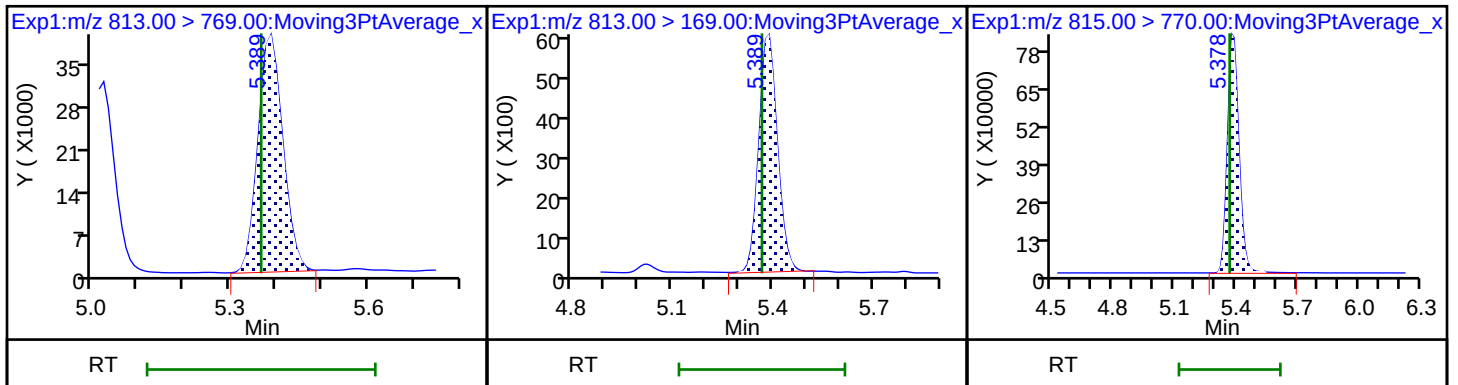
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA

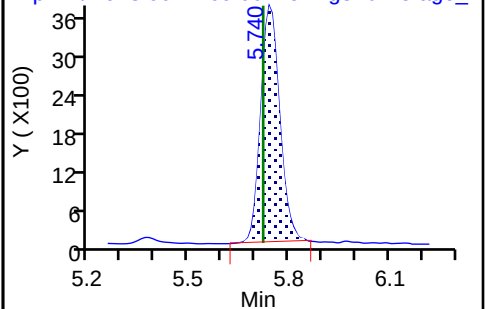
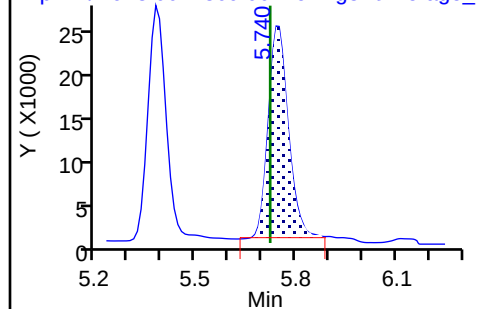


46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x

Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



Eurofins Burlington

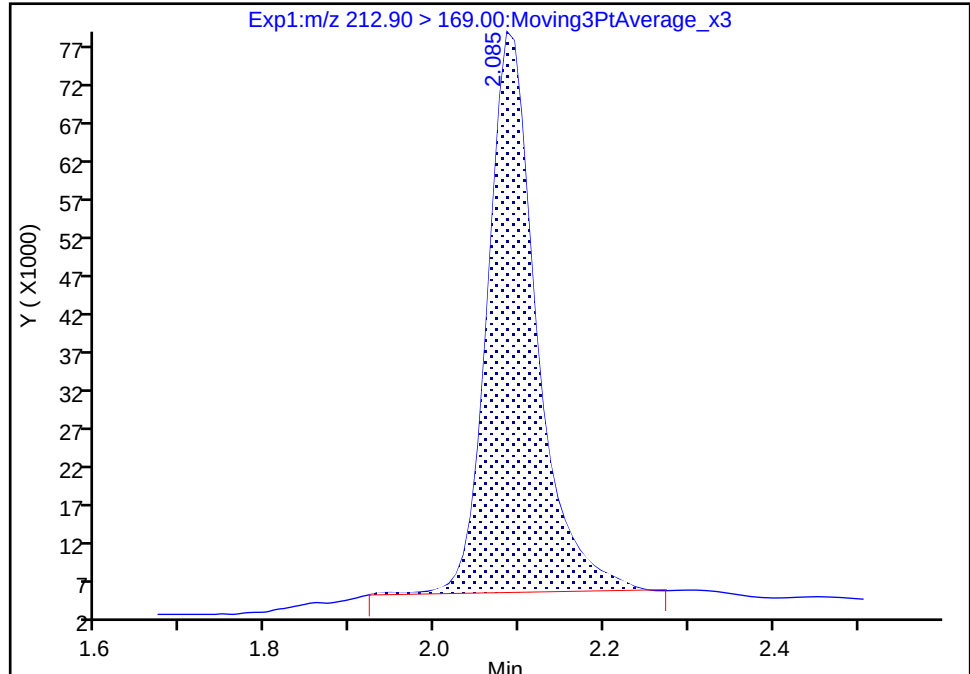
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Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

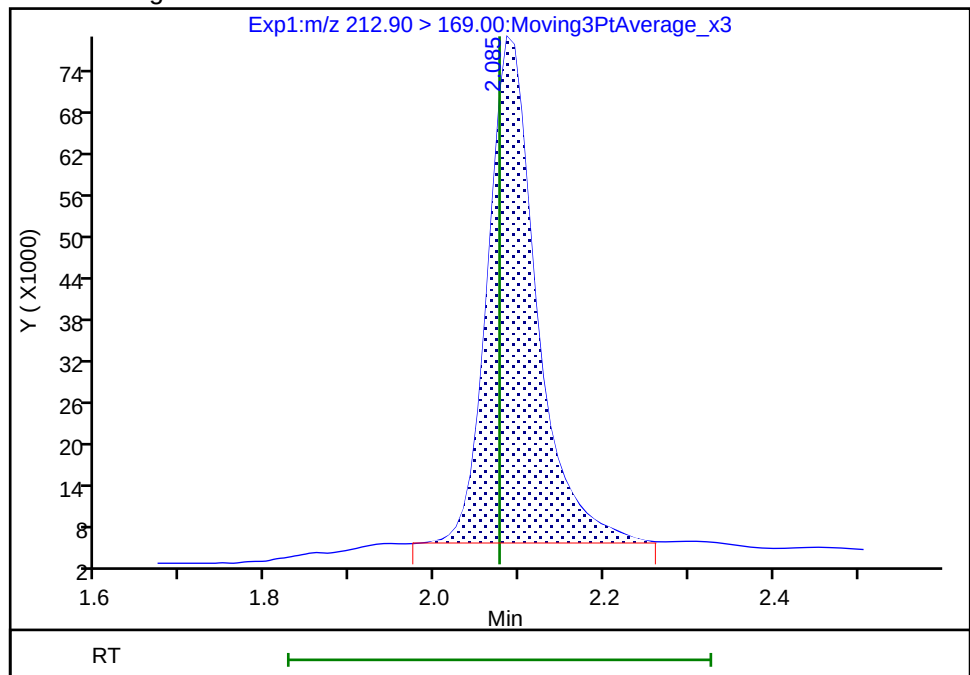
RT: 2.09
Area: 294531
Amount: 0.127961
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 291880
Amount: 0.126810
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:01:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

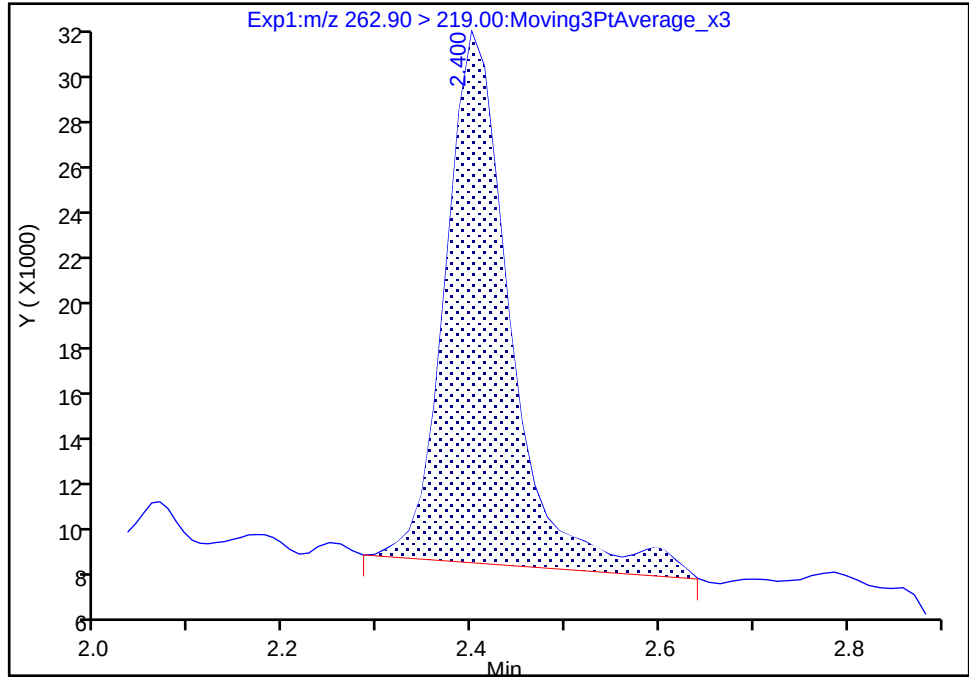
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

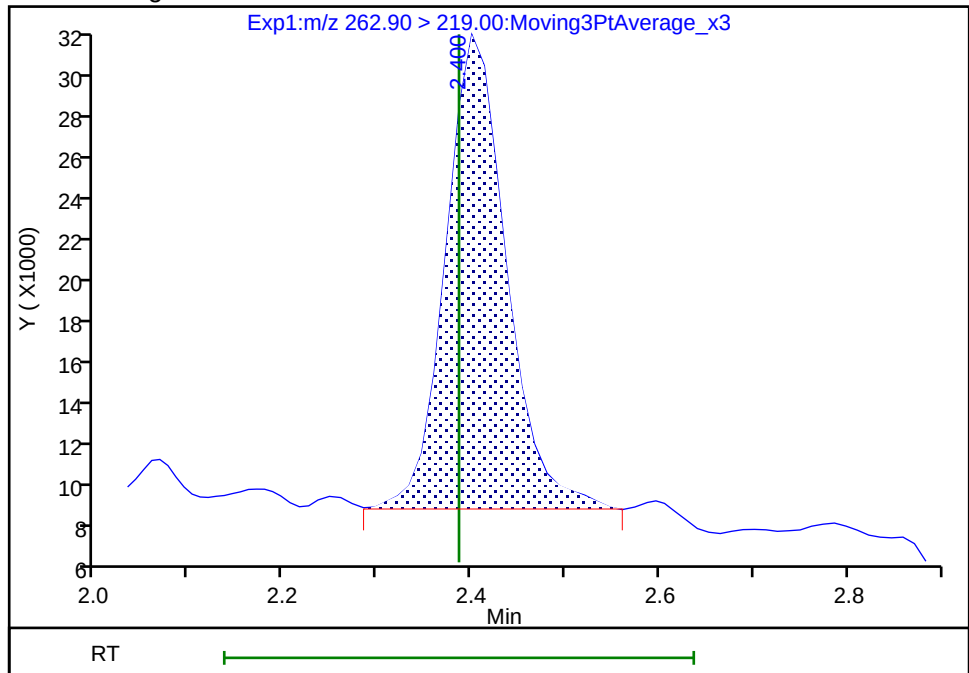
RT: 2.40
Area: 111420
Amount: 0.059630
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 101973
Amount: 0.054574
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:01:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

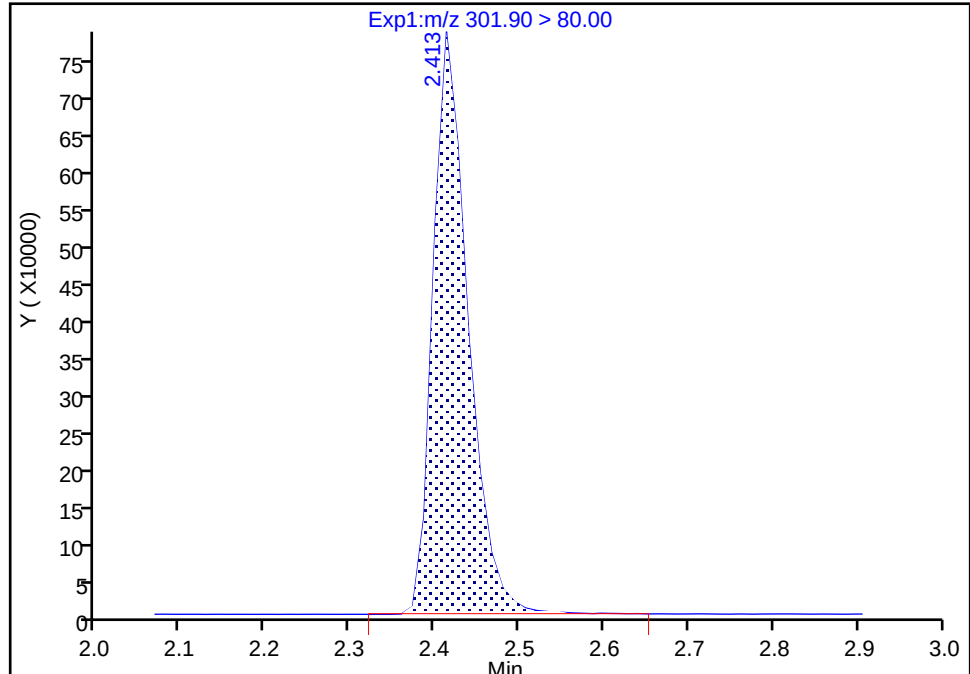
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Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

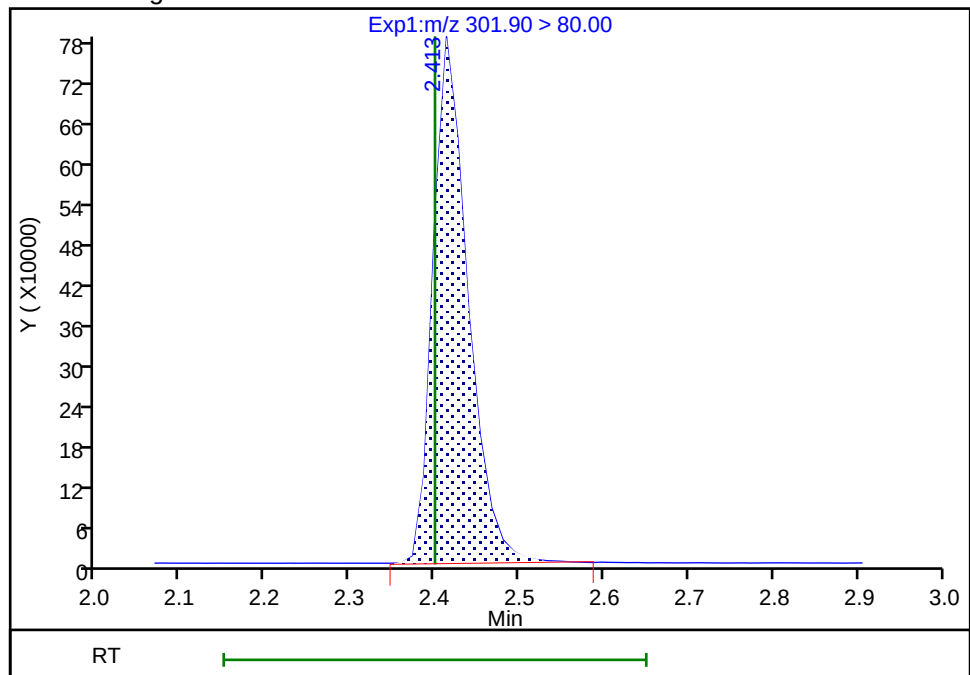
RT: 2.41
Area: 2249643
Amount: 1.103924
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 2242993
Amount: 1.100661
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:59:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

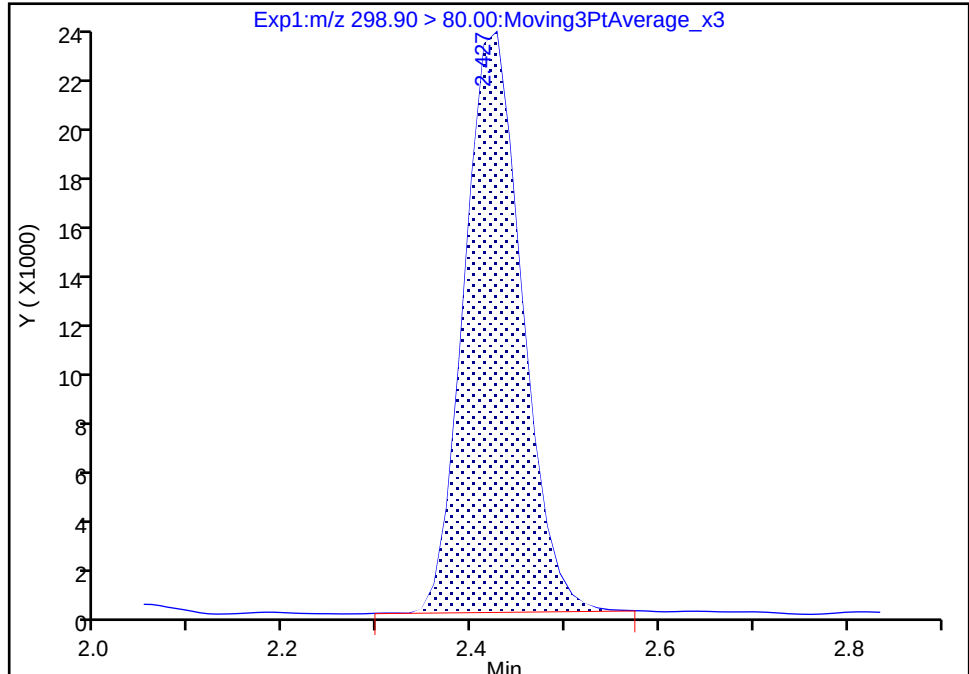
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Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

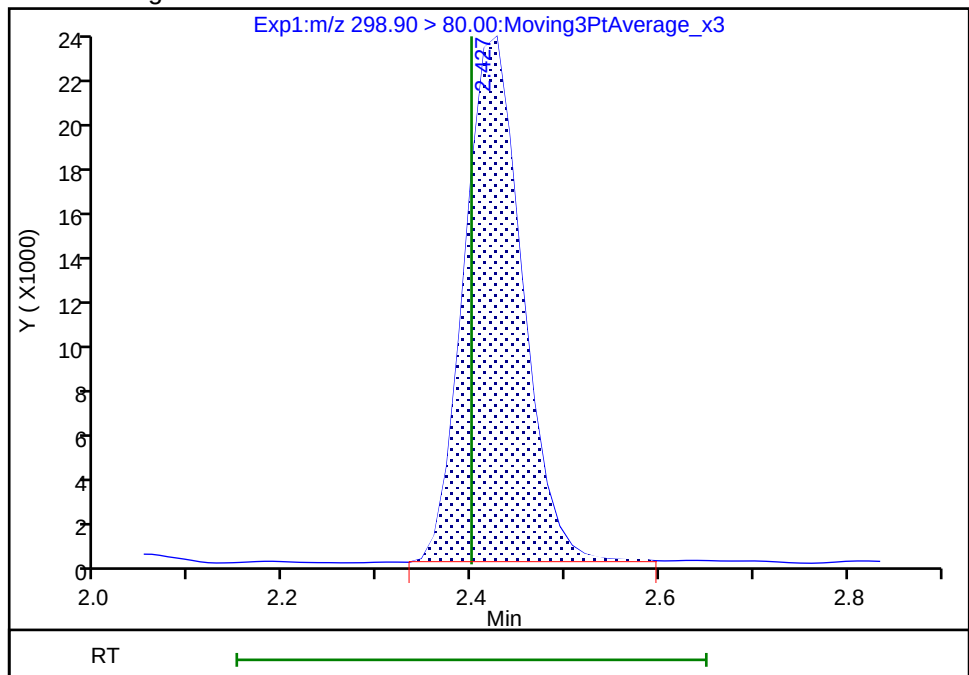
RT: 2.43
Area: 98562
Amount: 0.044649
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 98850
Amount: 0.044780
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:01:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

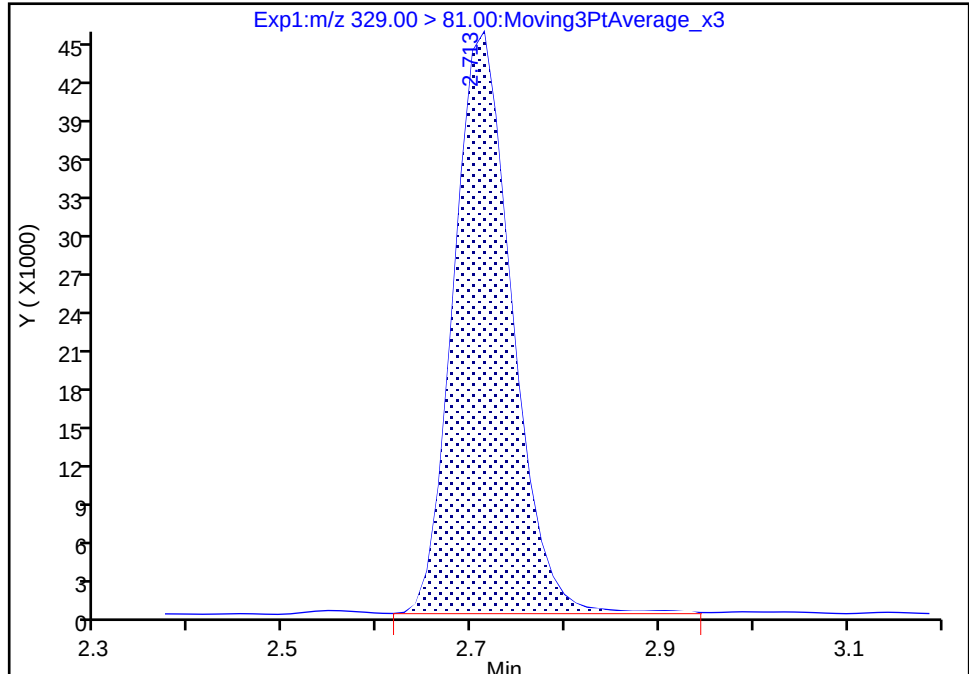
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

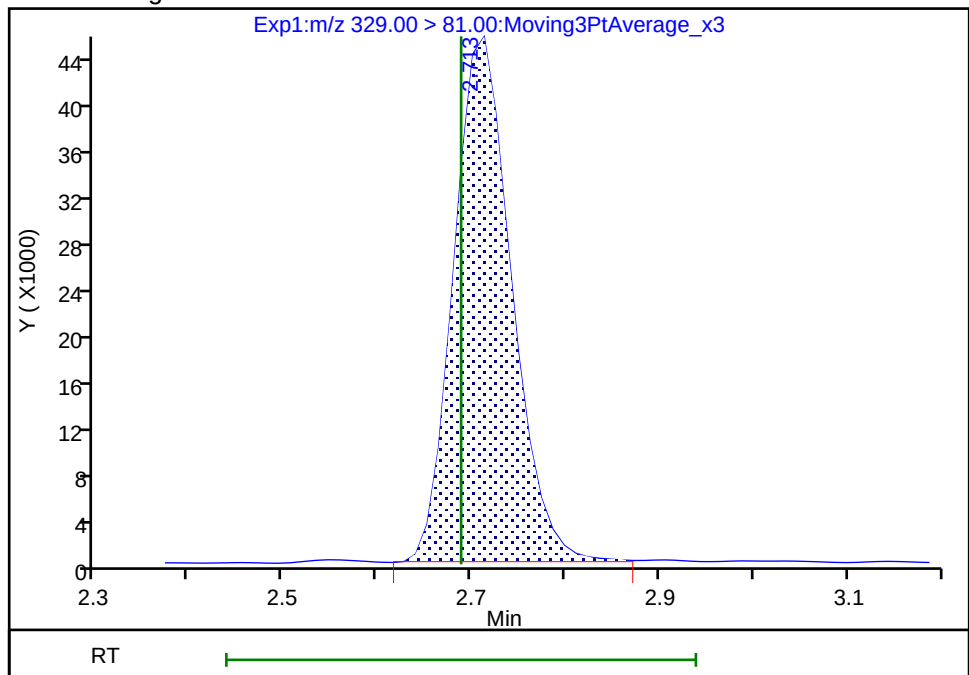
RT: 2.71
Area: 195449
Amount: 1.085407
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 194735
Amount: 1.081442
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:59:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

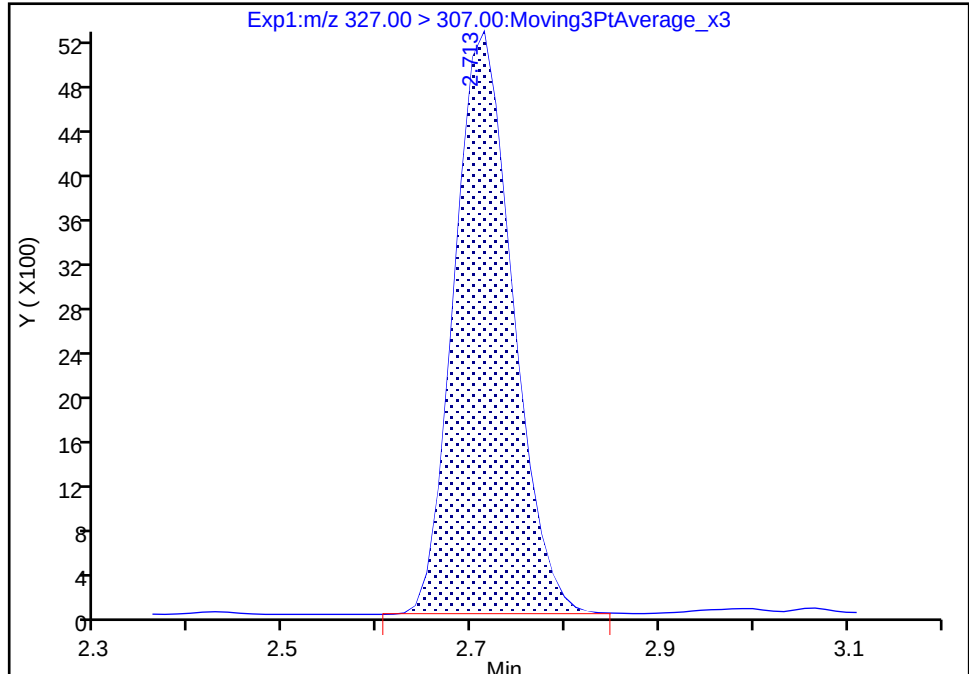
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Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

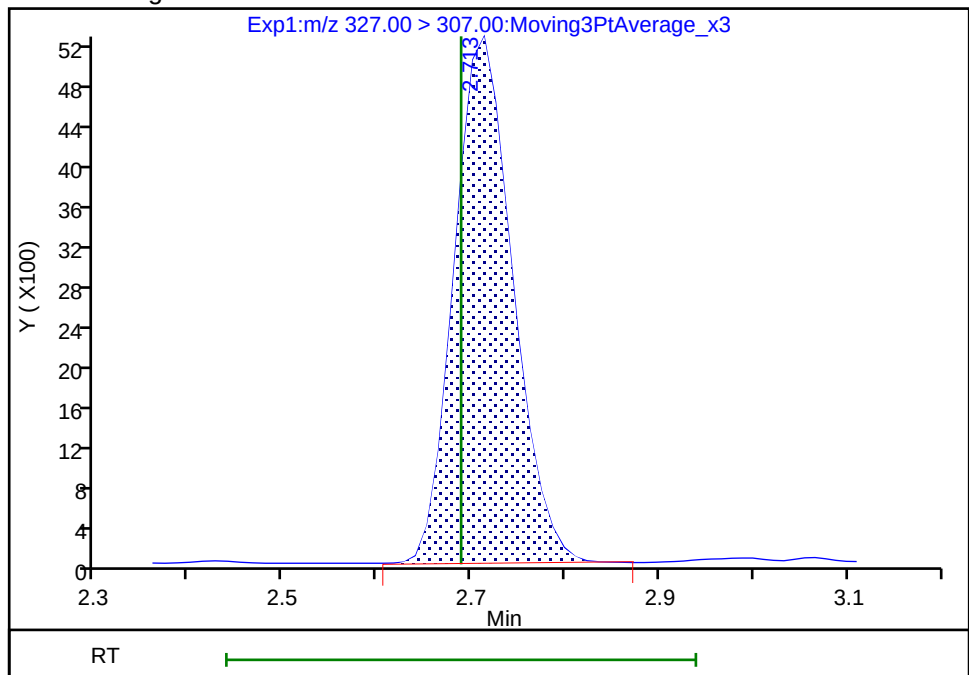
RT: 2.71
Area: 22752
Amount: 0.044276
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 22798
Amount: 0.044366
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:01:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d

Injection Date: 16-Dec-2022 12:17:50

Instrument ID: LC812

Lims ID: CCVLIS

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)

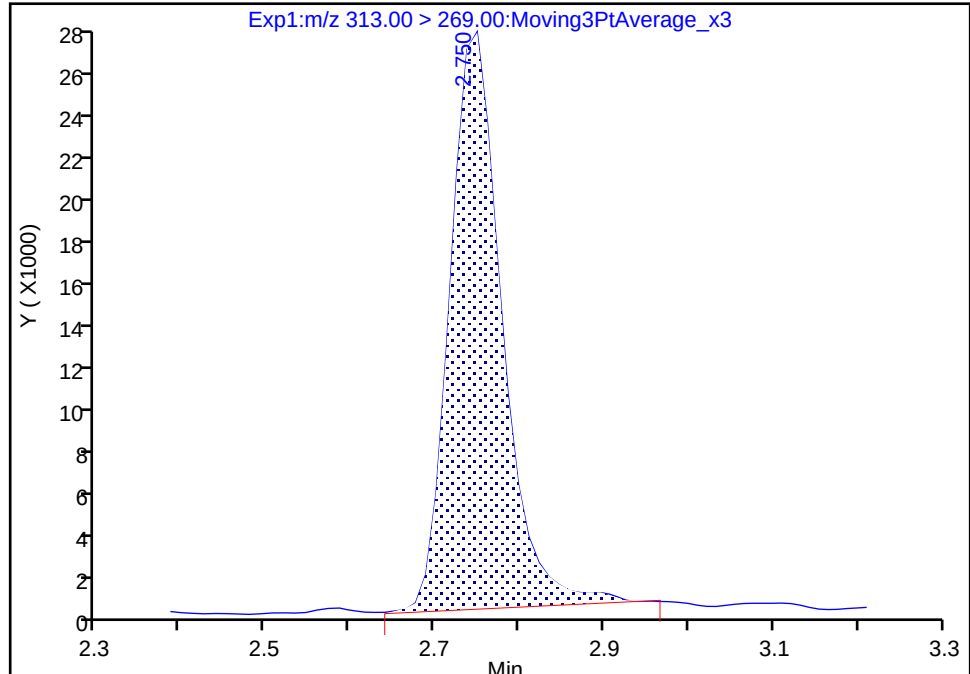
Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

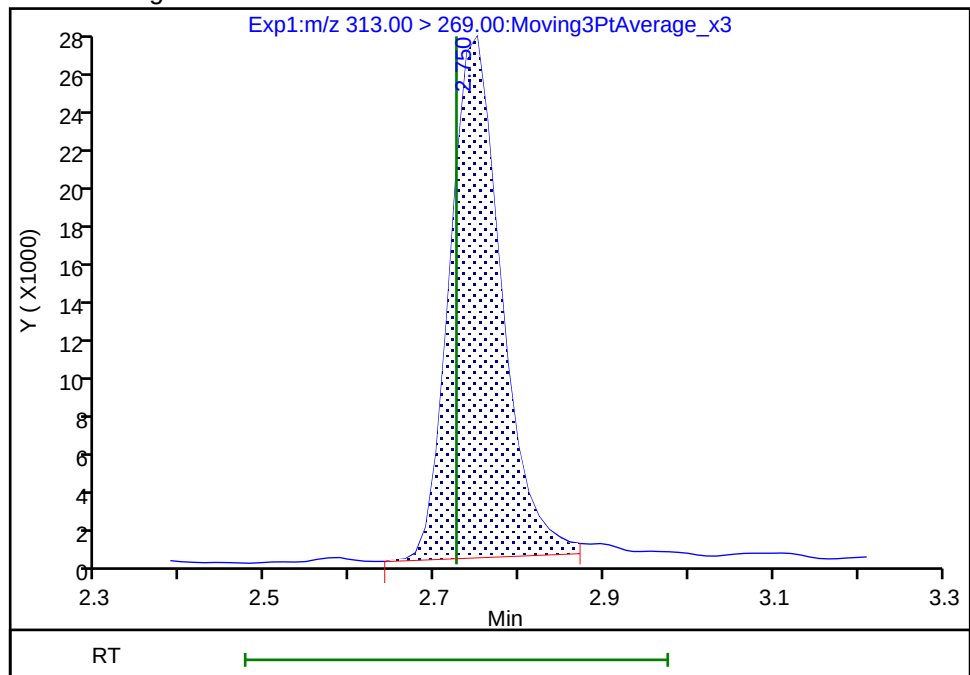
RT: 2.75
Area: 115329
Amount: 0.054965
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 113595
Amount: 0.054138
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:02:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

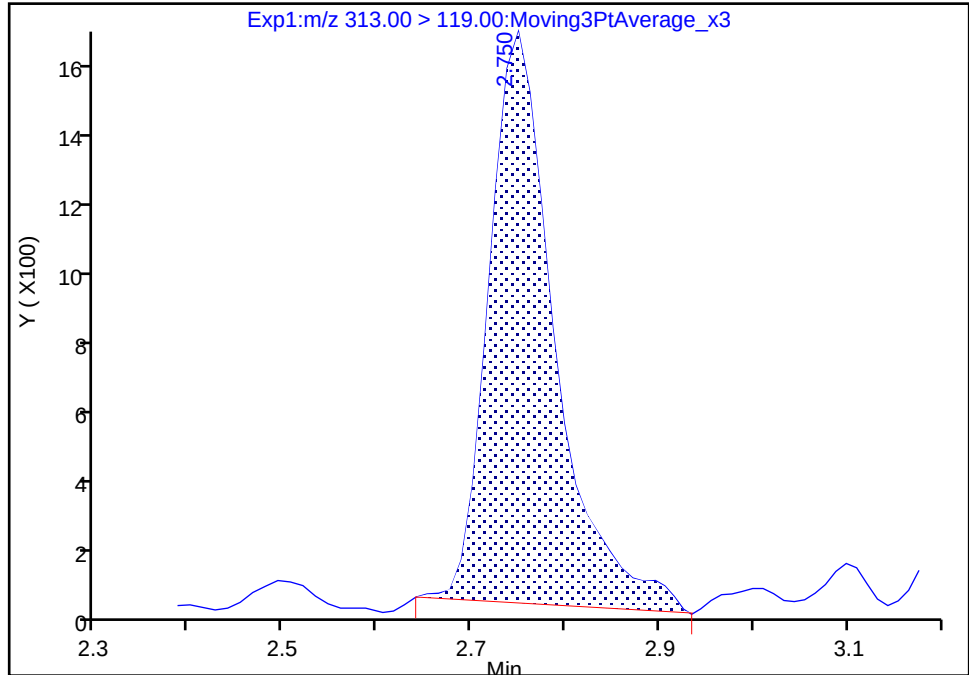
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

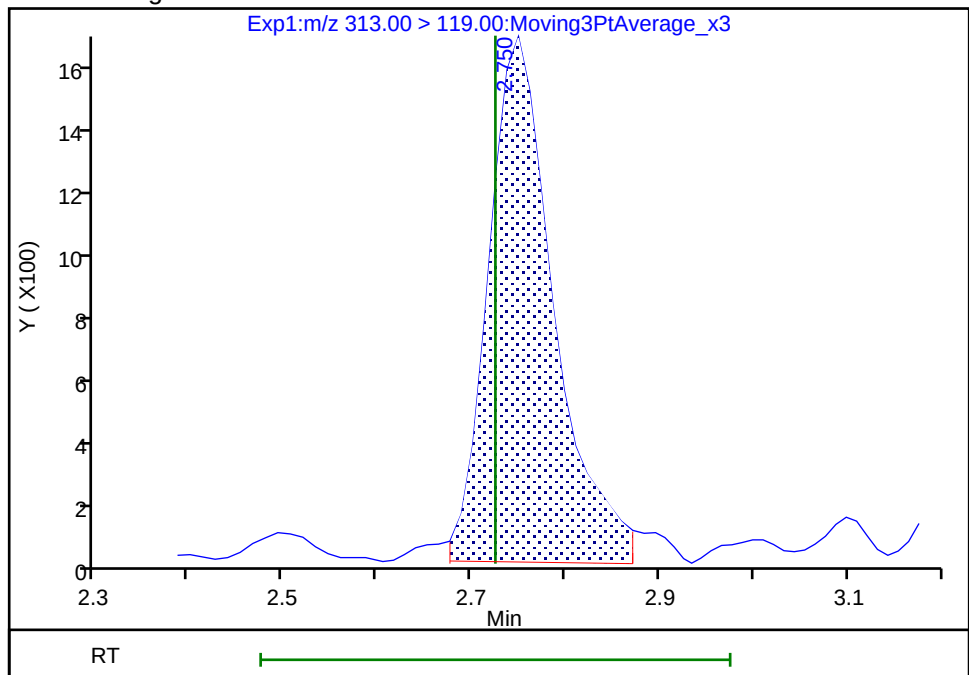
RT: 2.75
Area: 7731
Amount: 0.054965
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 7714
Amount: 0.054138
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:02:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d

Injection Date: 16-Dec-2022 12:17:50

Instrument ID: LC812

Lims ID: CCVLIS

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)

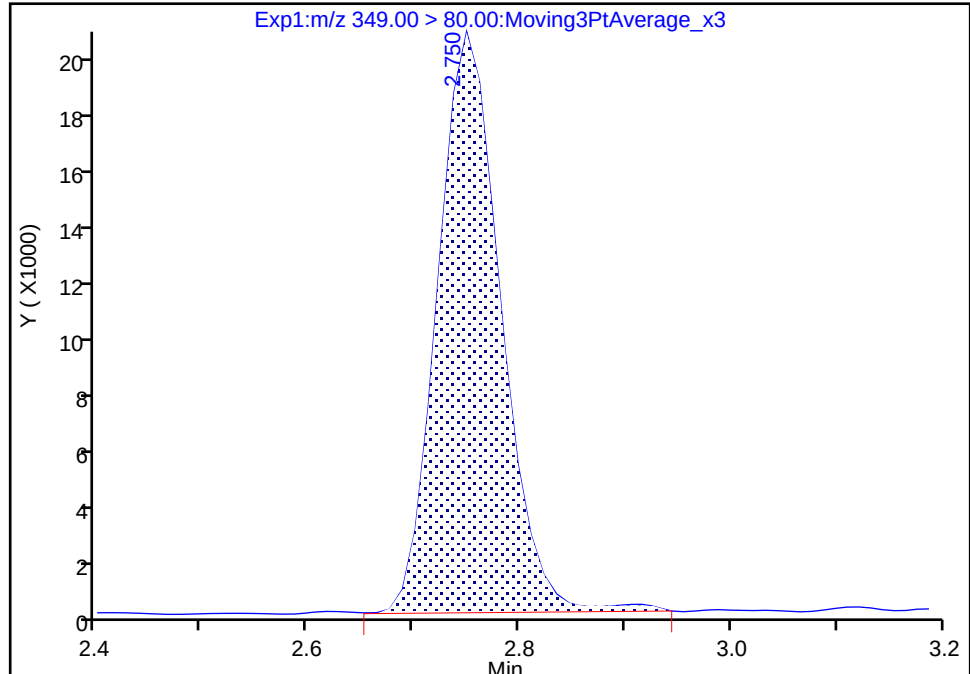
Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

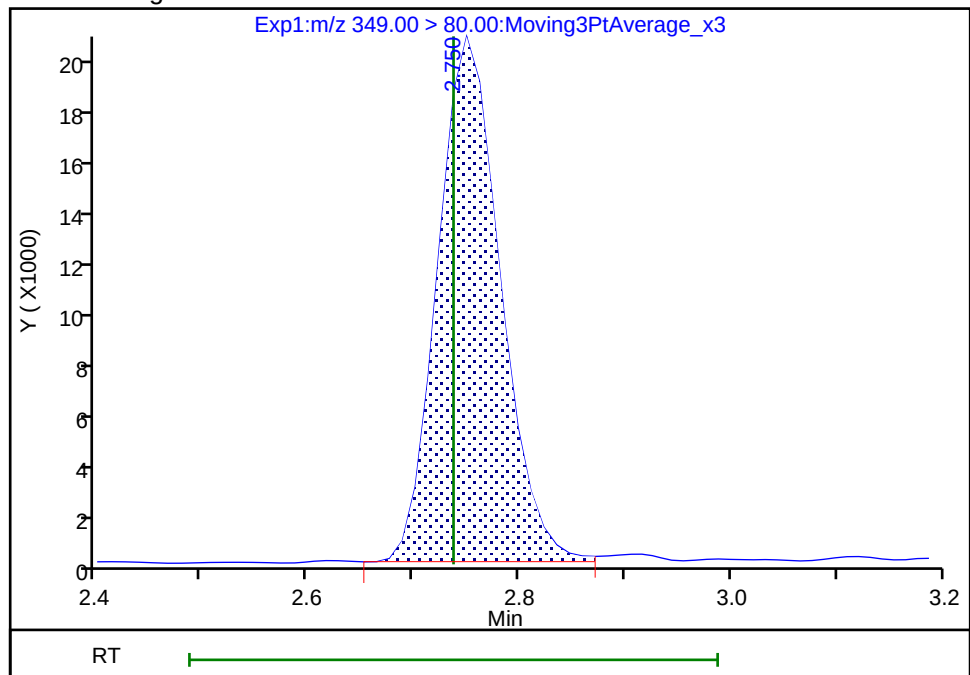
RT: 2.75
Area: 85325
Amount: 0.045043
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 84562
Amount: 0.044640
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:02:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

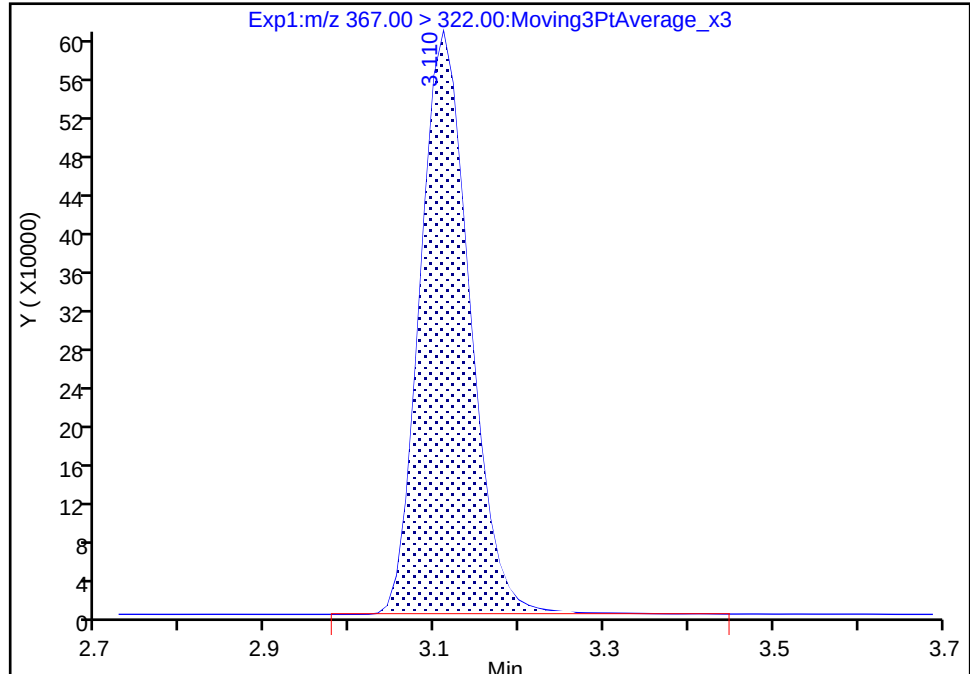
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

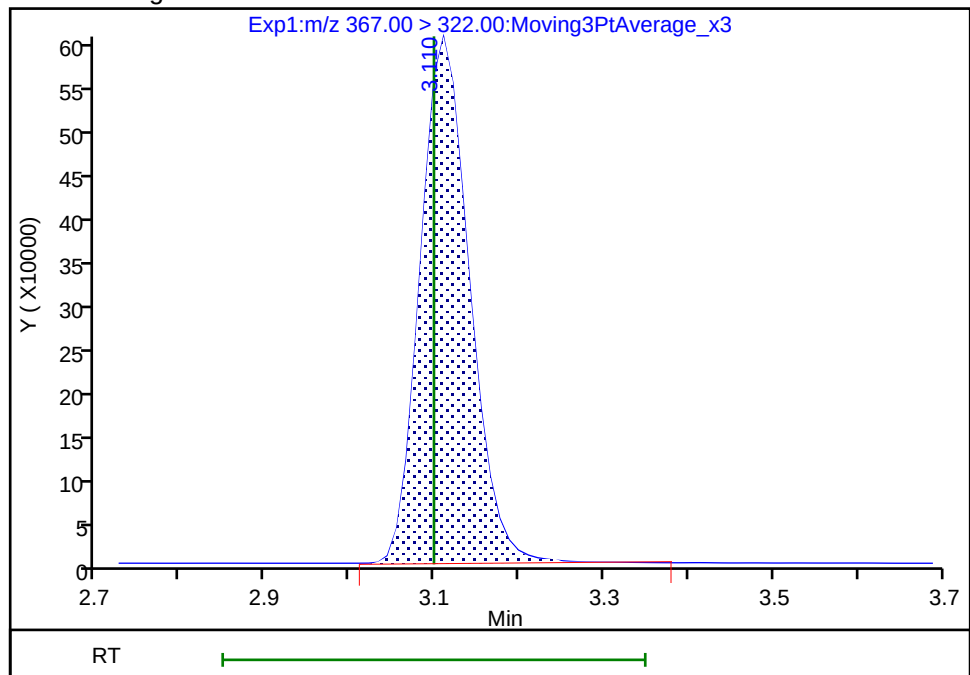
RT: 3.11
Area: 2451967
Amount: 1.213087
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 2447546
Amount: 1.210900
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:00:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

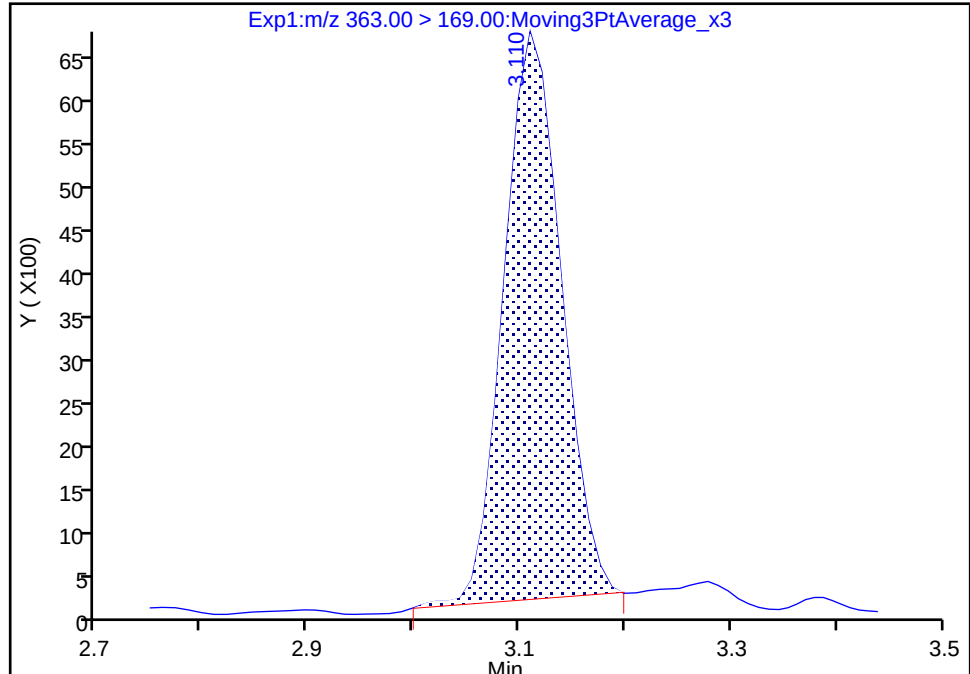
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

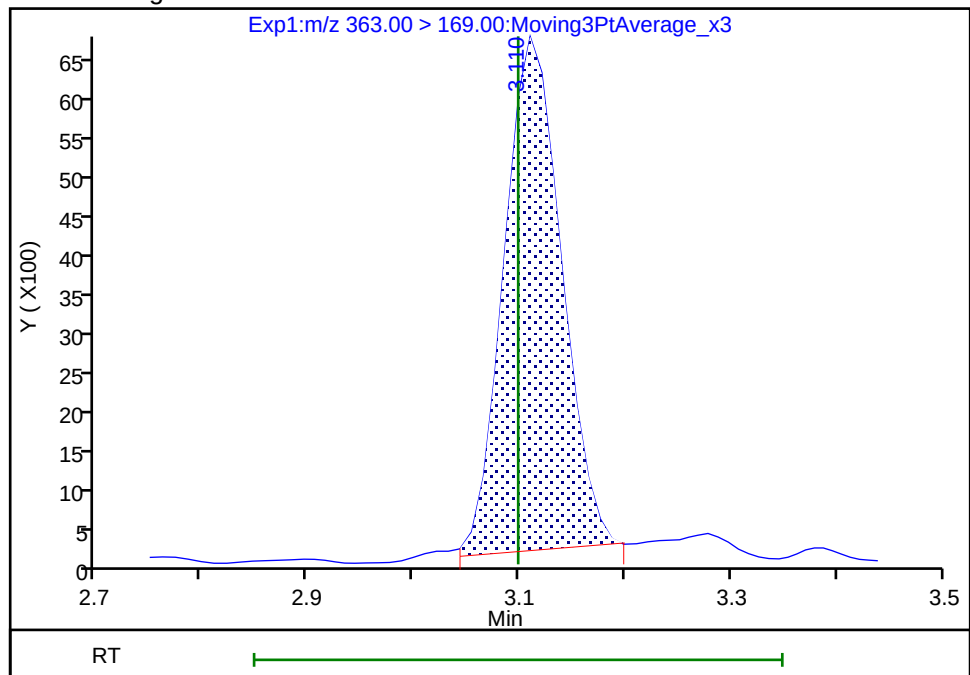
RT: 3.11
Area: 24956
Amount: 0.046240
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 24965
Amount: 0.046240
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:02:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

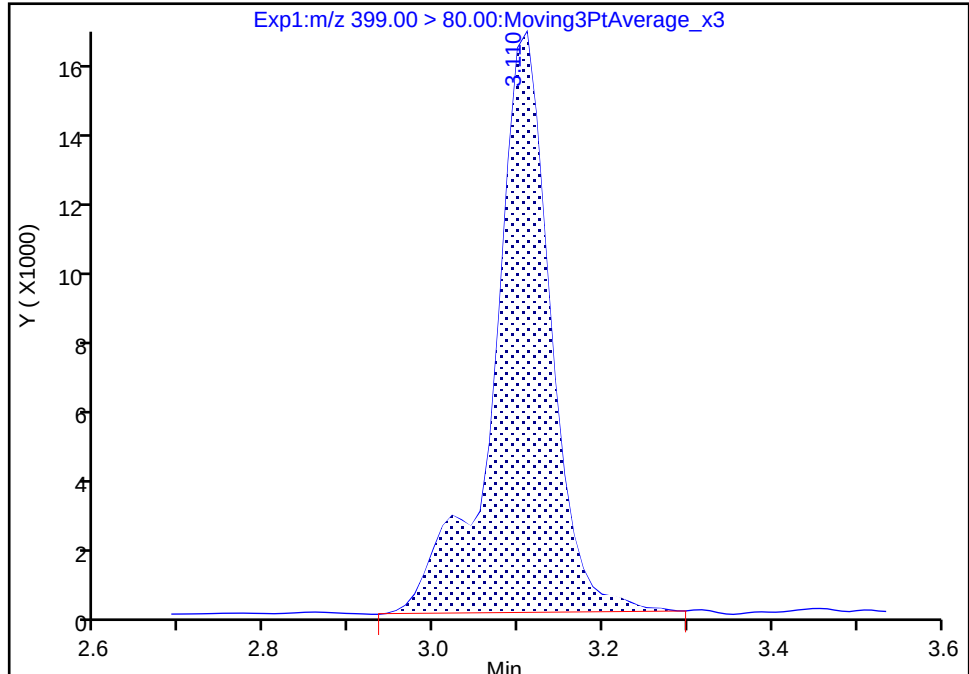
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

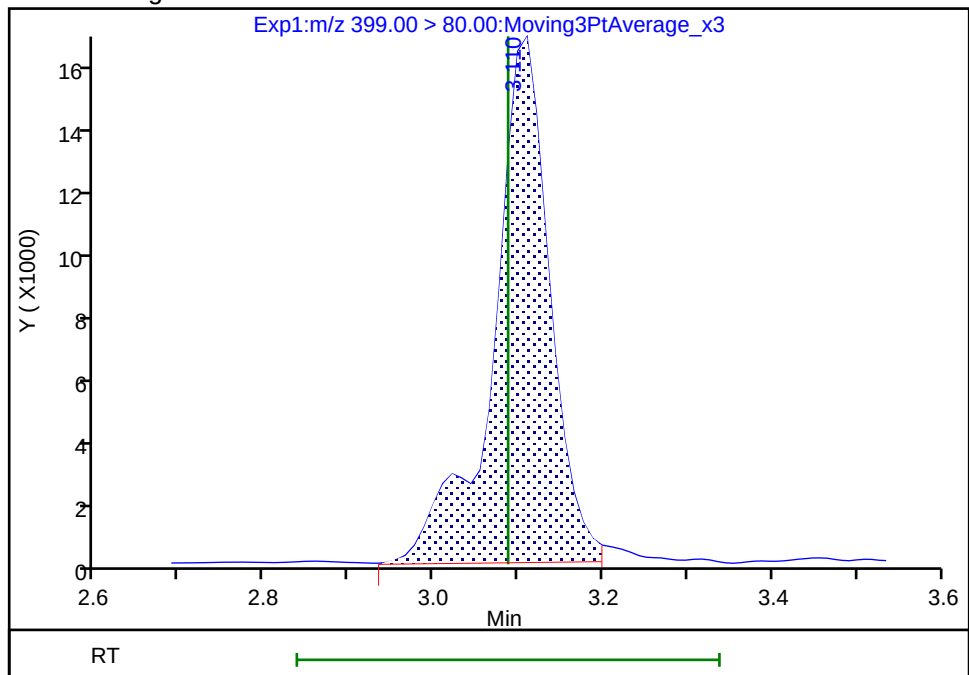
RT: 3.11
Area: 77026
Amount: 0.048112
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 75888
Amount: 0.047401
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:02:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d

Injection Date: 16-Dec-2022 12:17:50

Instrument ID: LC812

Lims ID: CCVLIS

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

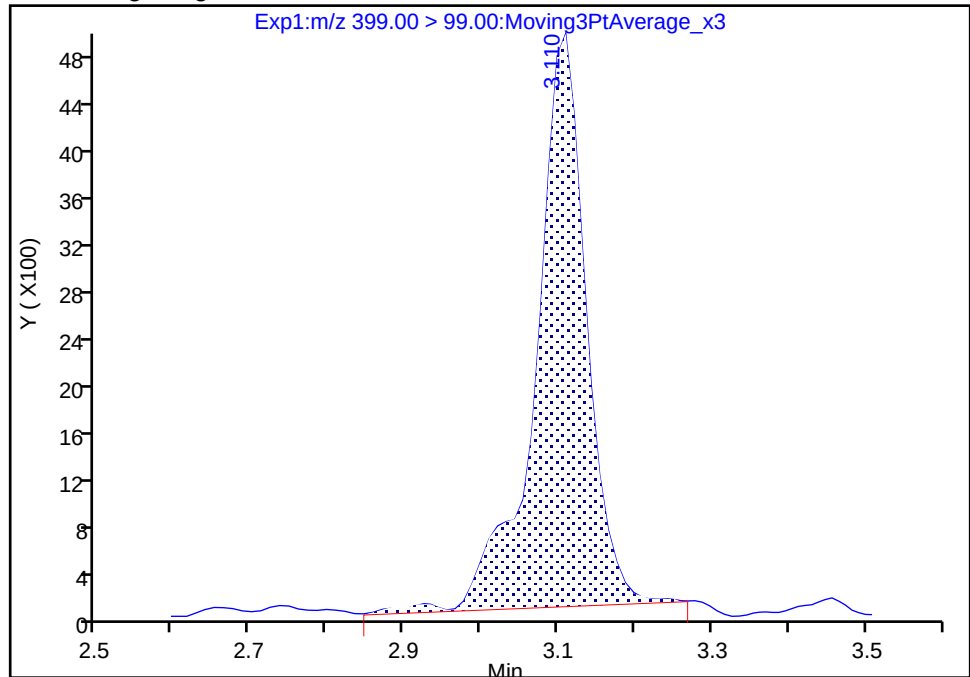
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

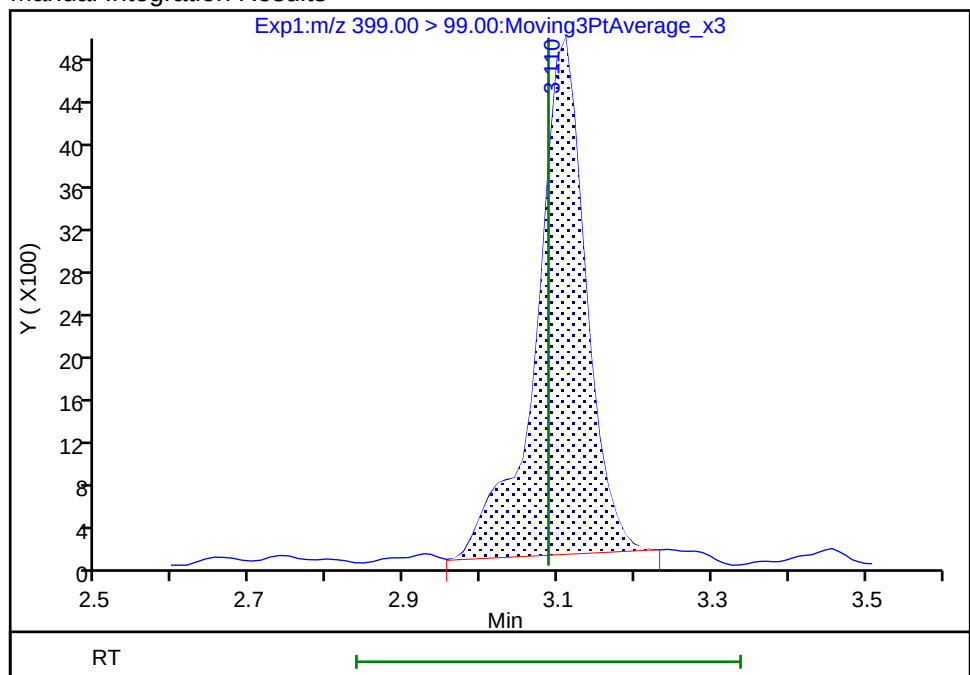
RT: 3.11
Area: 22152
Amount: 0.048112
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 21658
Amount: 0.047401
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:02:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

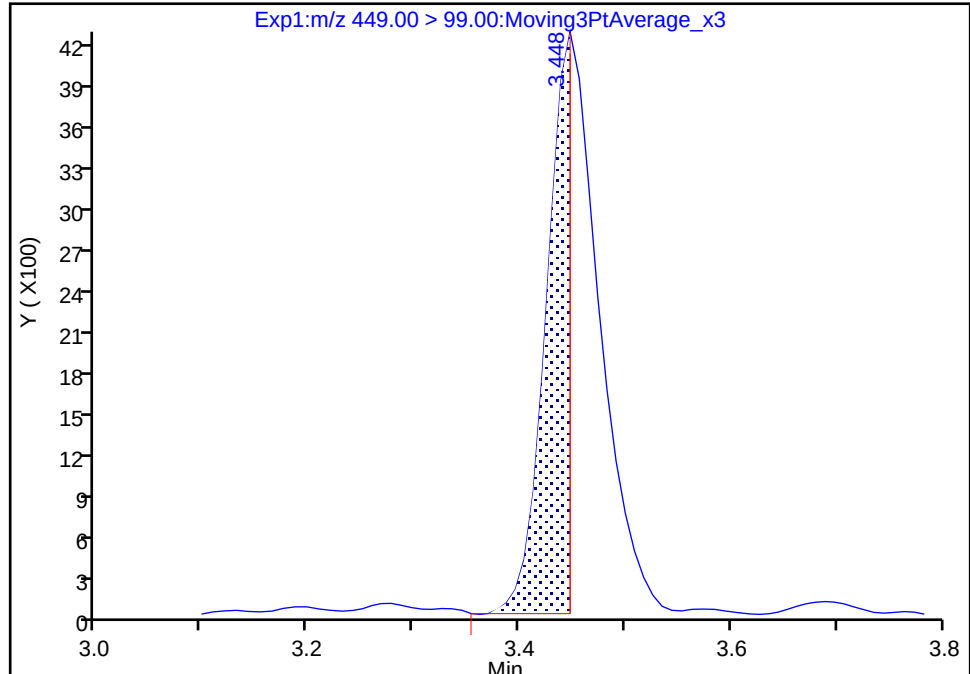
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

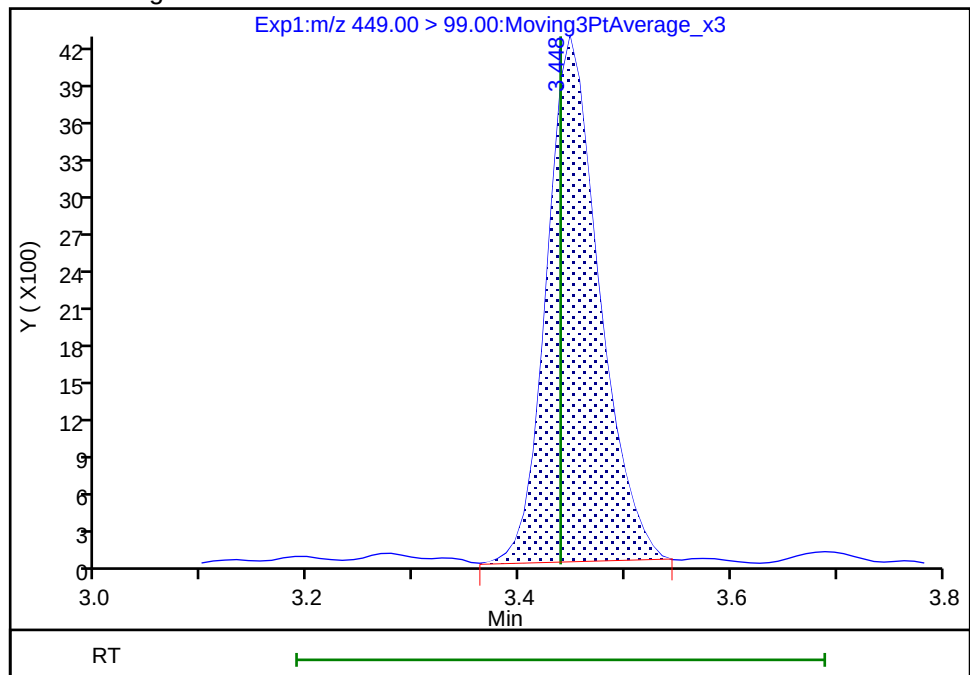
RT: 3.45
Area: 6310
Amount: 0.047660
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 14359
Amount: 0.047660
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 16-Dec-2022 12:32:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

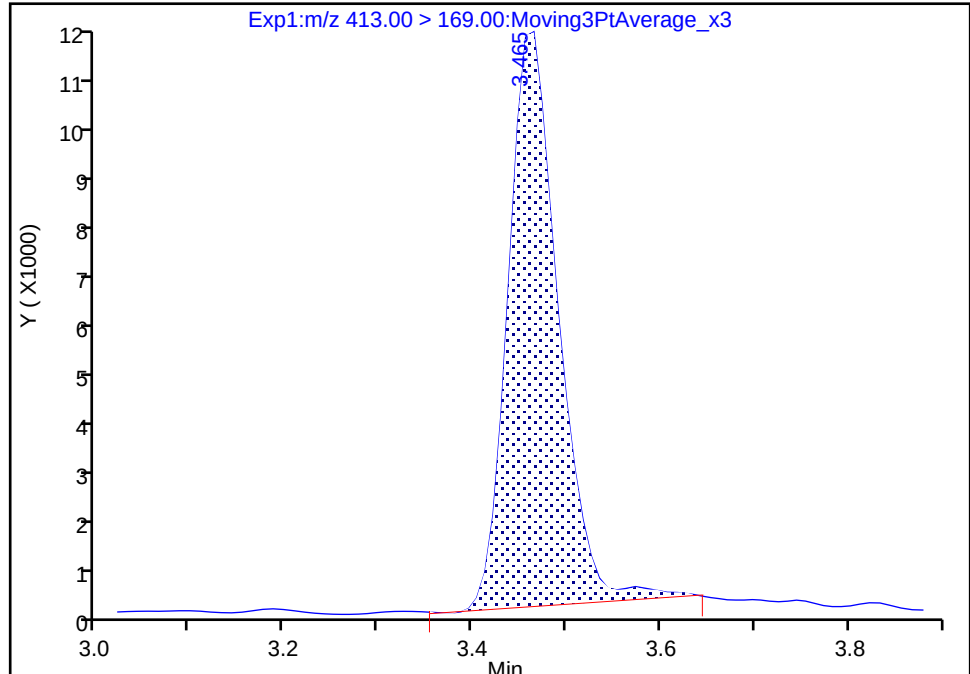
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

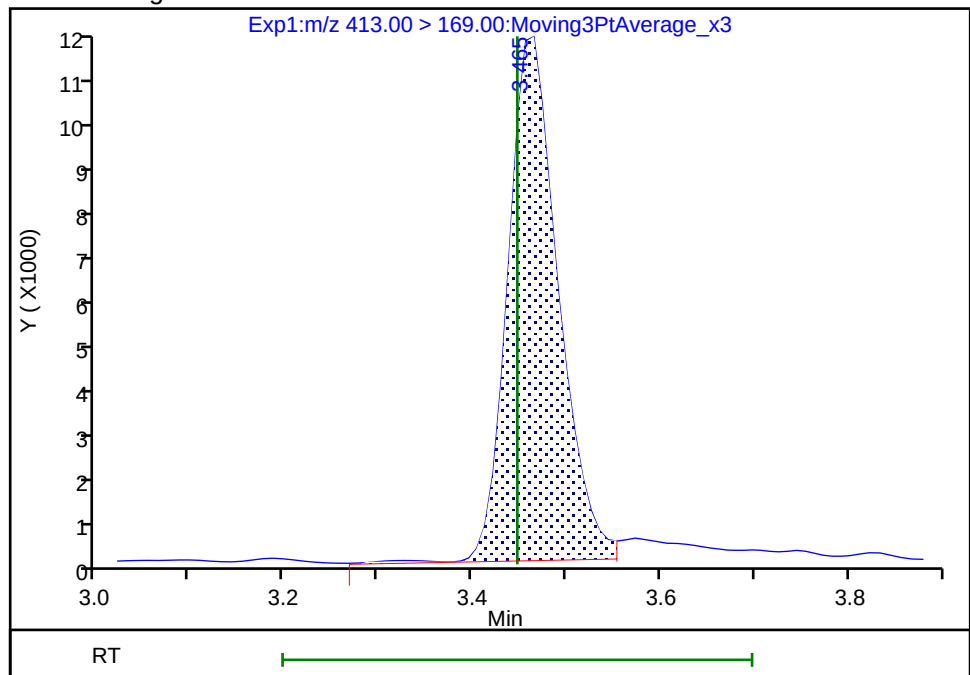
RT: 3.47
Area: 43462
Amount: 0.049905
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 43559
Amount: 0.049905
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:03:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

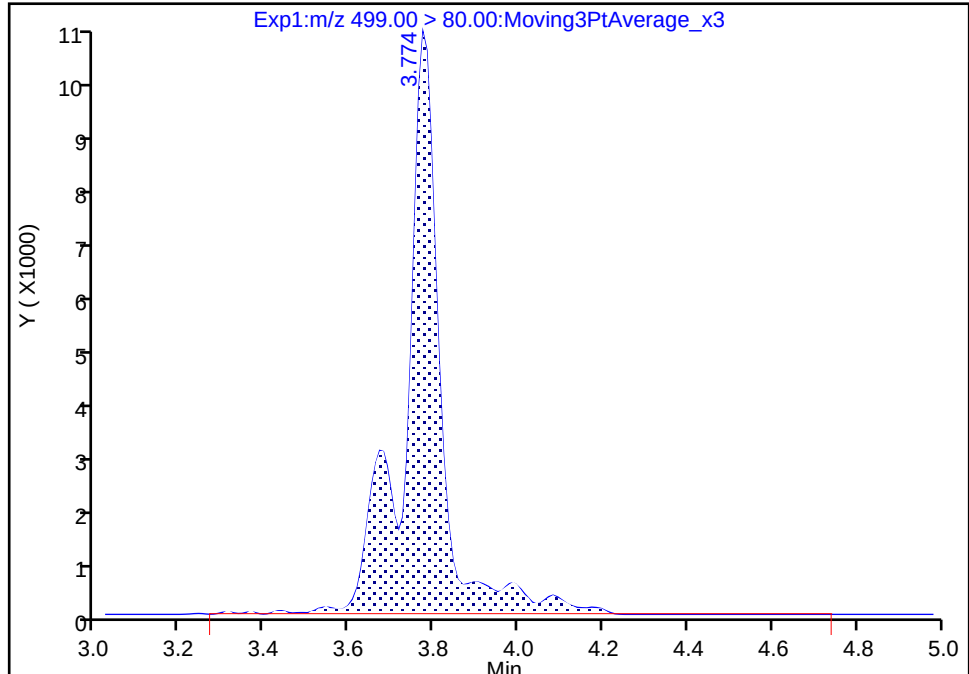
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

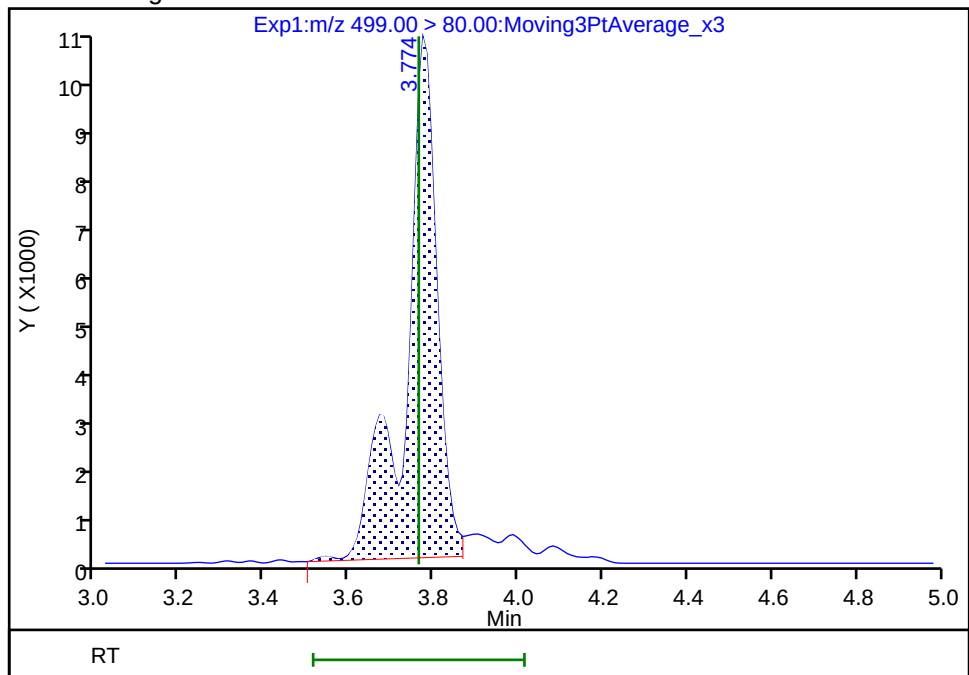
RT: 3.77
Area: 64478
Amount: 0.054895
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 55308
Amount: 0.047088
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:03:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

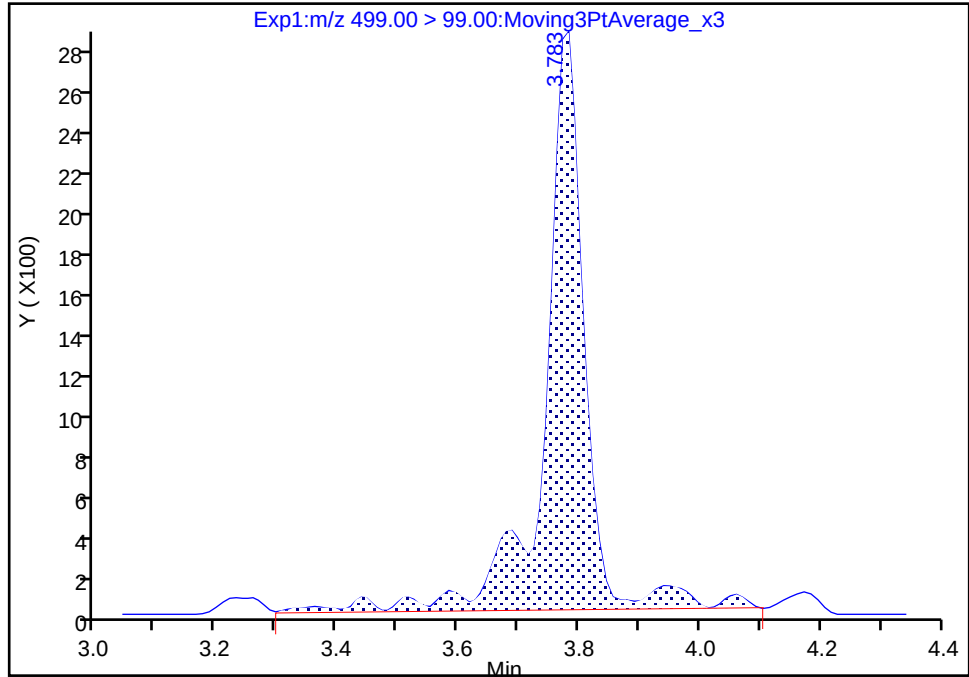
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

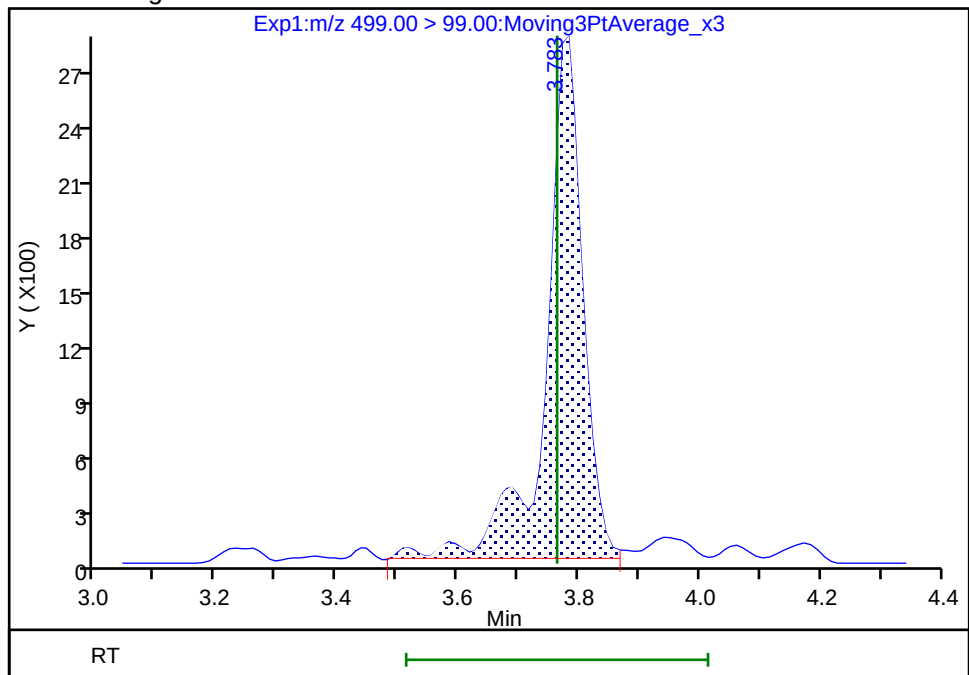
RT: 3.78
Area: 13255
Amount: 0.054895
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 11870
Amount: 0.047088
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 12:38:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

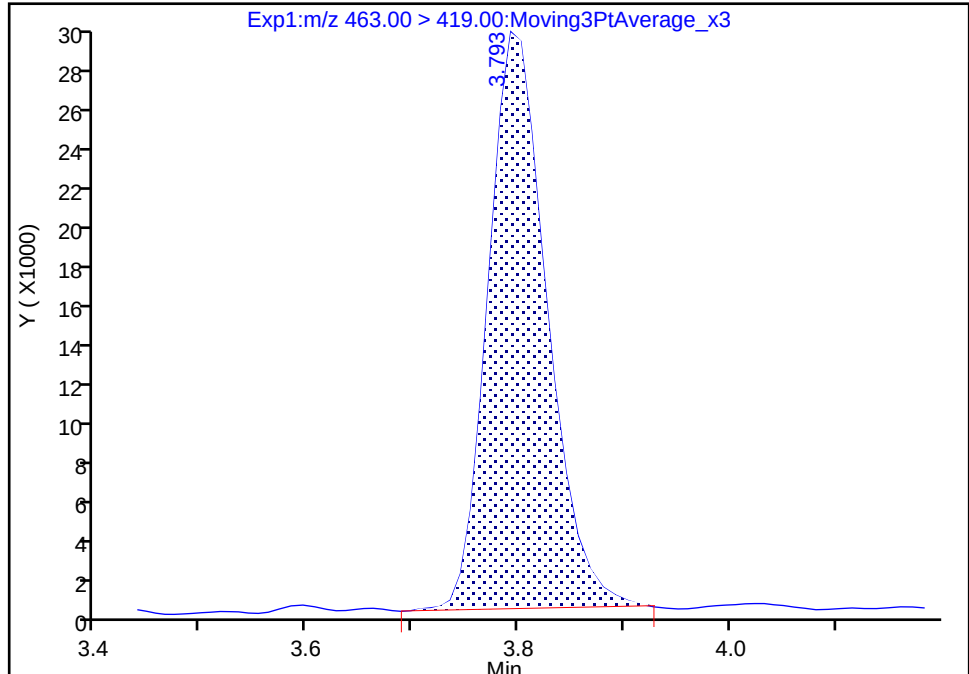
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

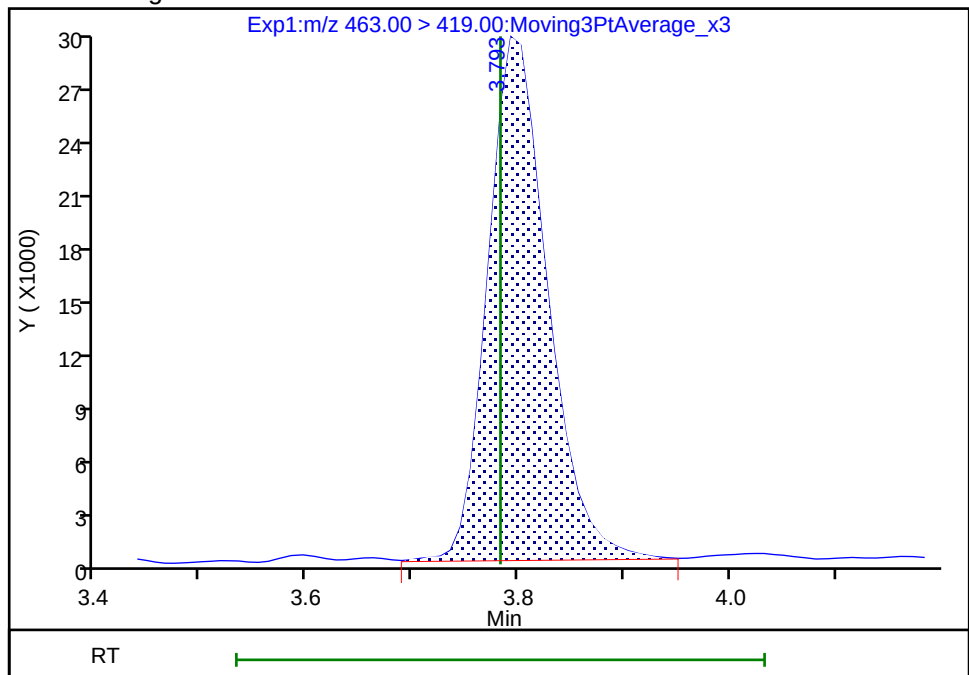
RT: 3.79
Area: 110979
Amount: 0.045354
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 111863
Amount: 0.045716
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

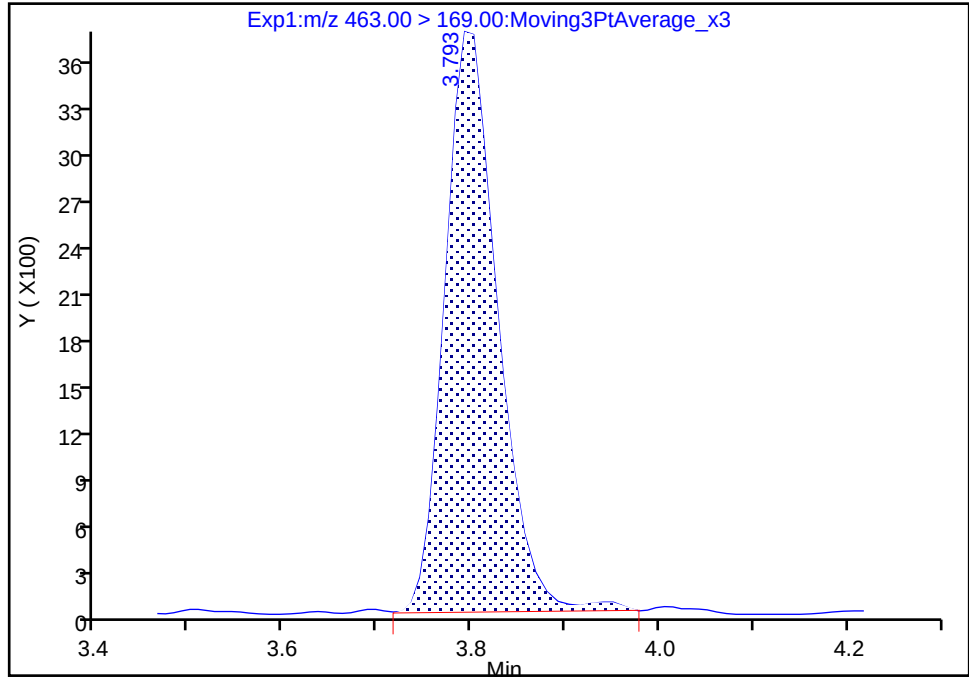
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

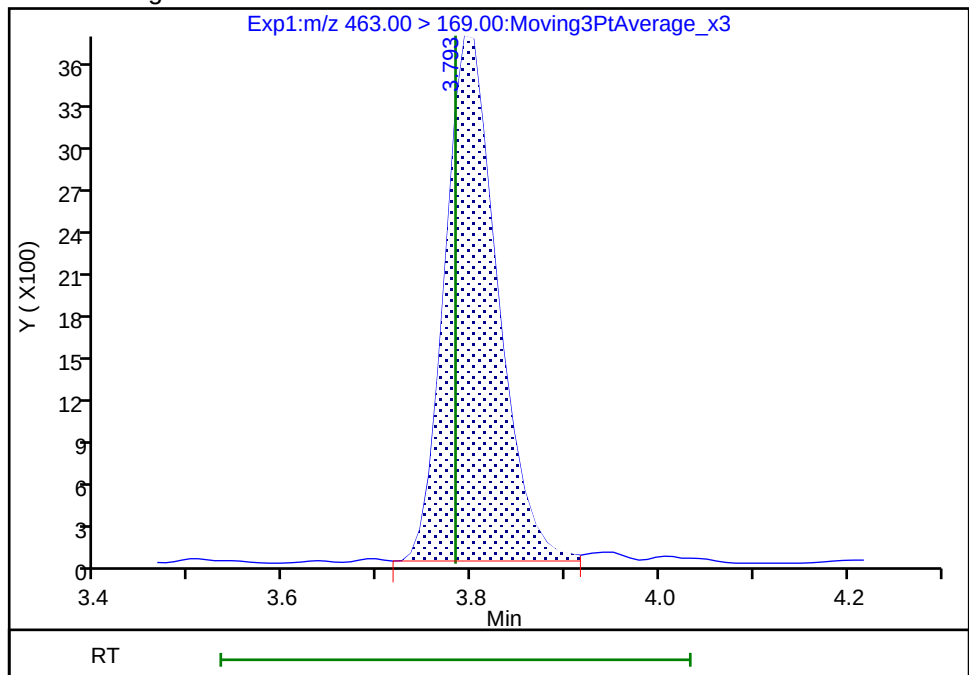
RT: 3.79
Area: 14785
Amount: 0.045354
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 14634
Amount: 0.045716
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

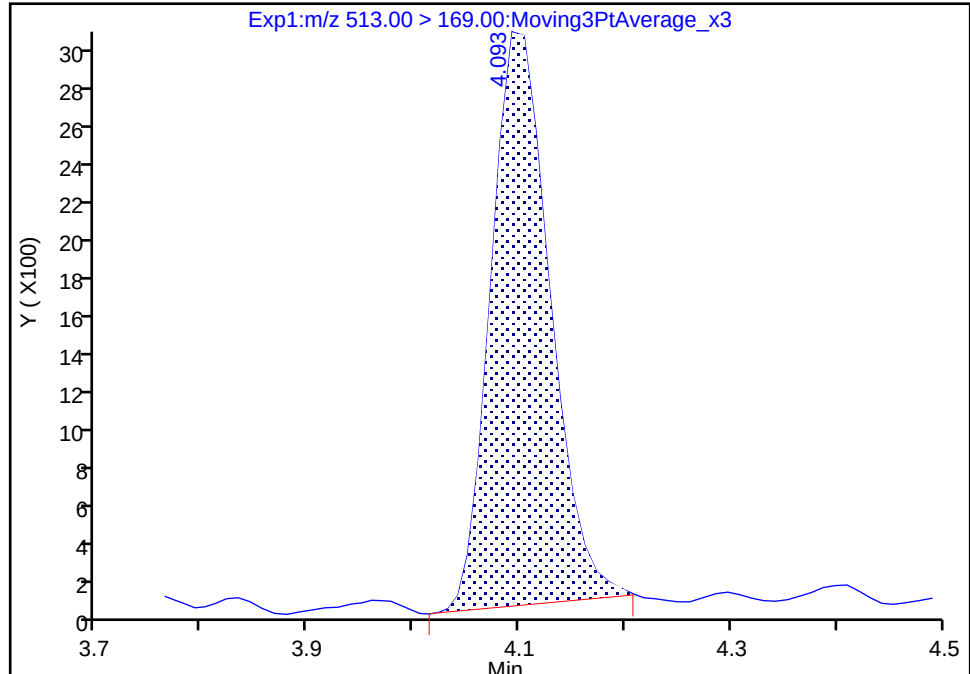
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

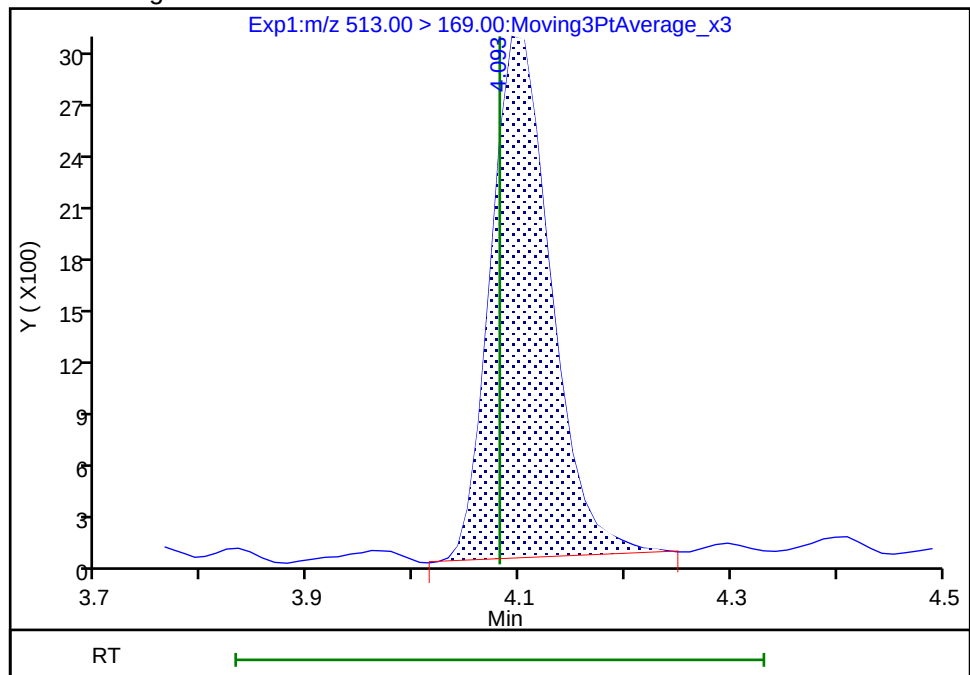
RT: 4.09
Area: 11563
Amount: 0.046763
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 11928
Amount: 0.046763
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

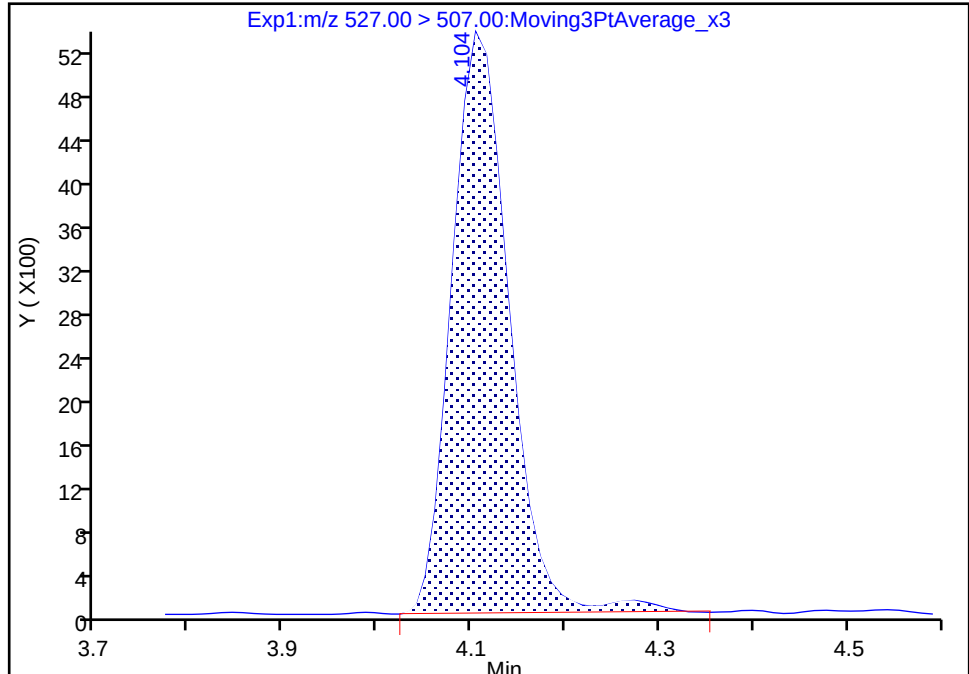
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

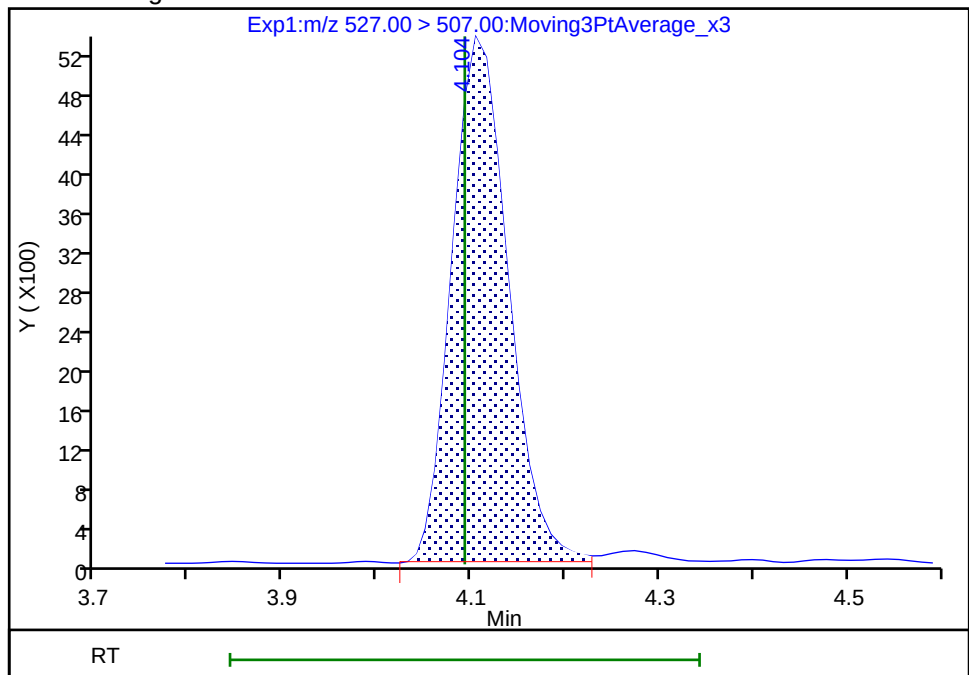
RT: 4.10
Area: 22891
Amount: 0.048838
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 22445
Amount: 0.047887
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

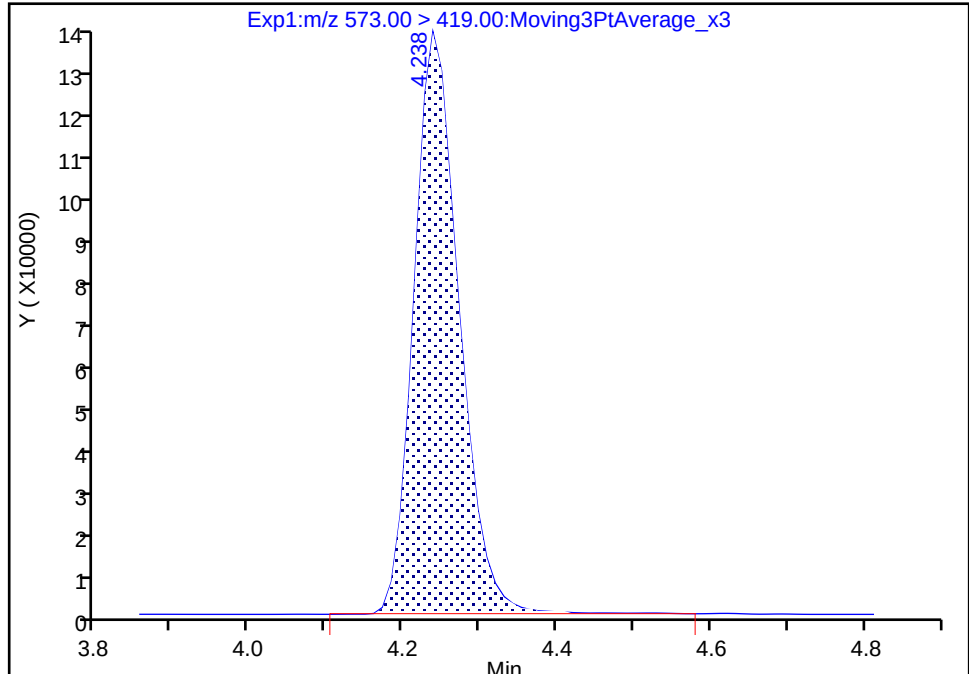
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

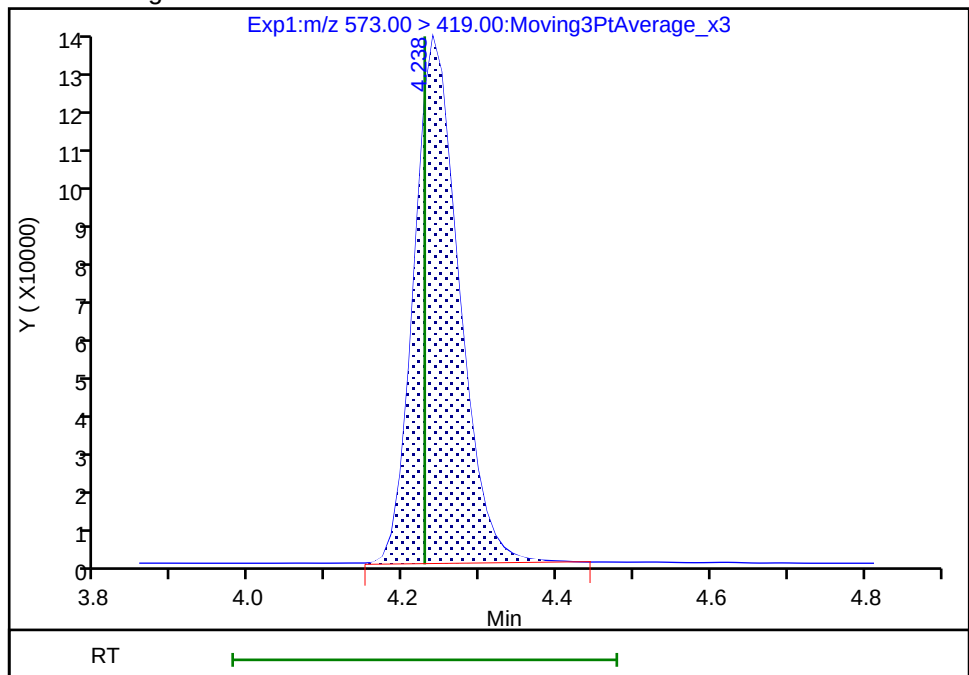
RT: 4.24
Area: 565922
Amount: 1.235082
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 562606
Amount: 1.227845
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:00:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

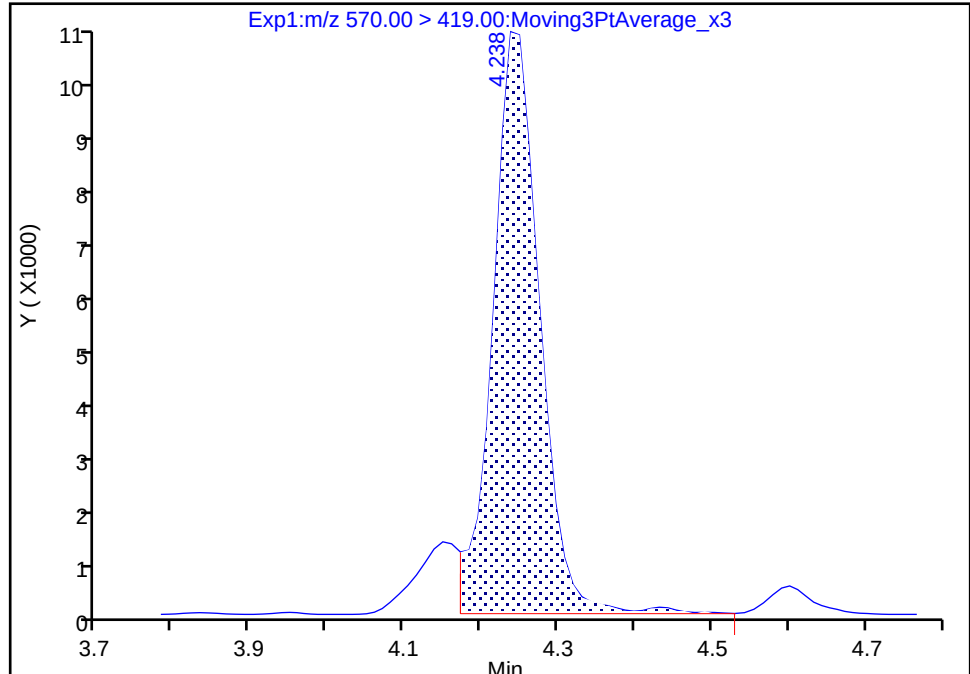
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

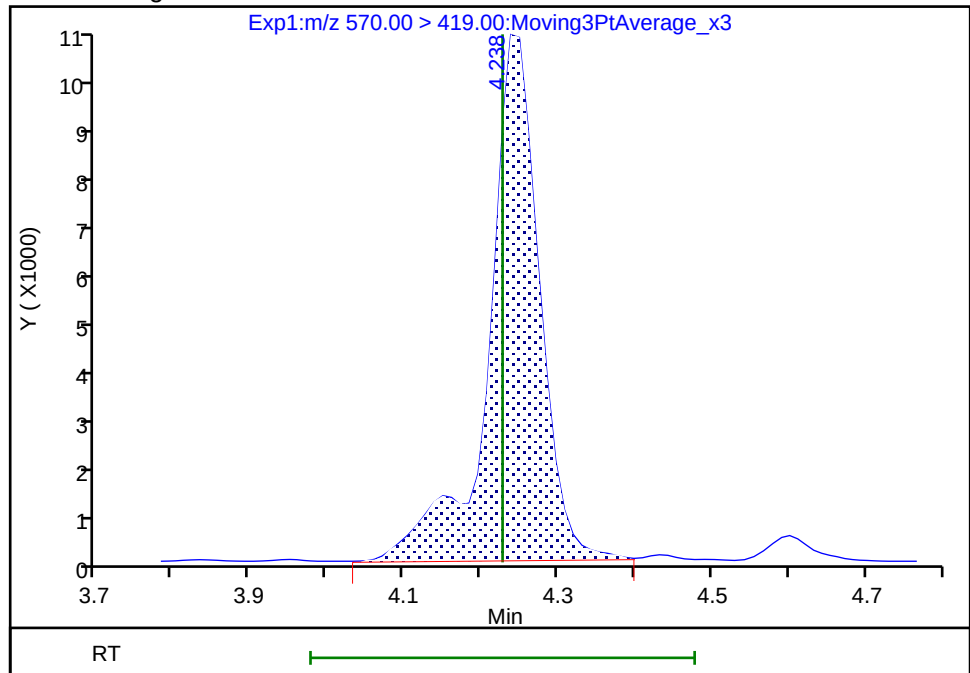
RT: 4.24
Area: 44539
Amount: 0.103407
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 48429
Amount: 0.113454
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

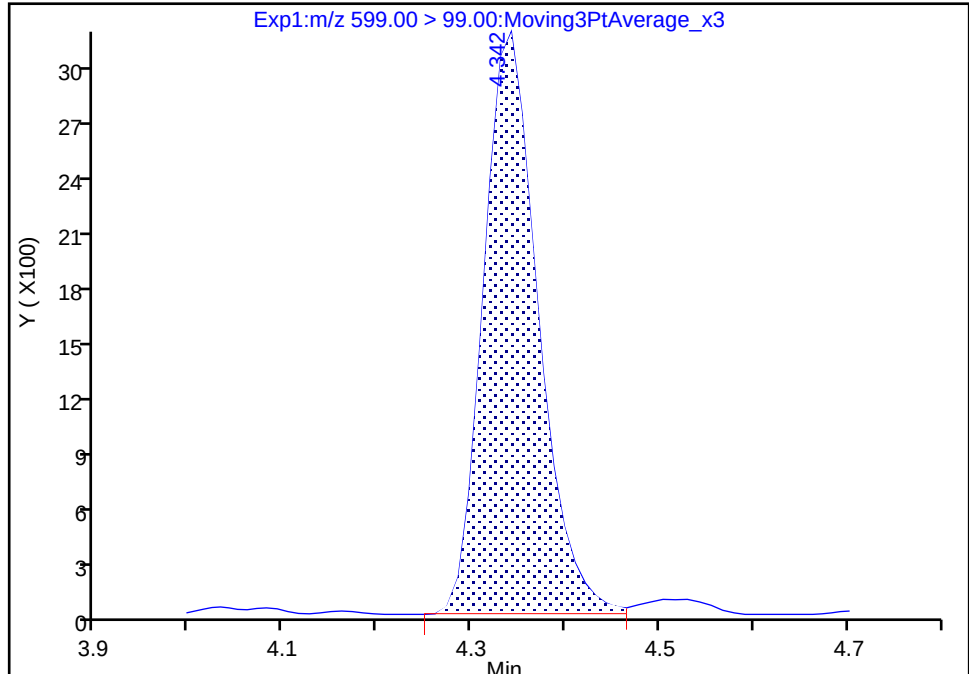
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

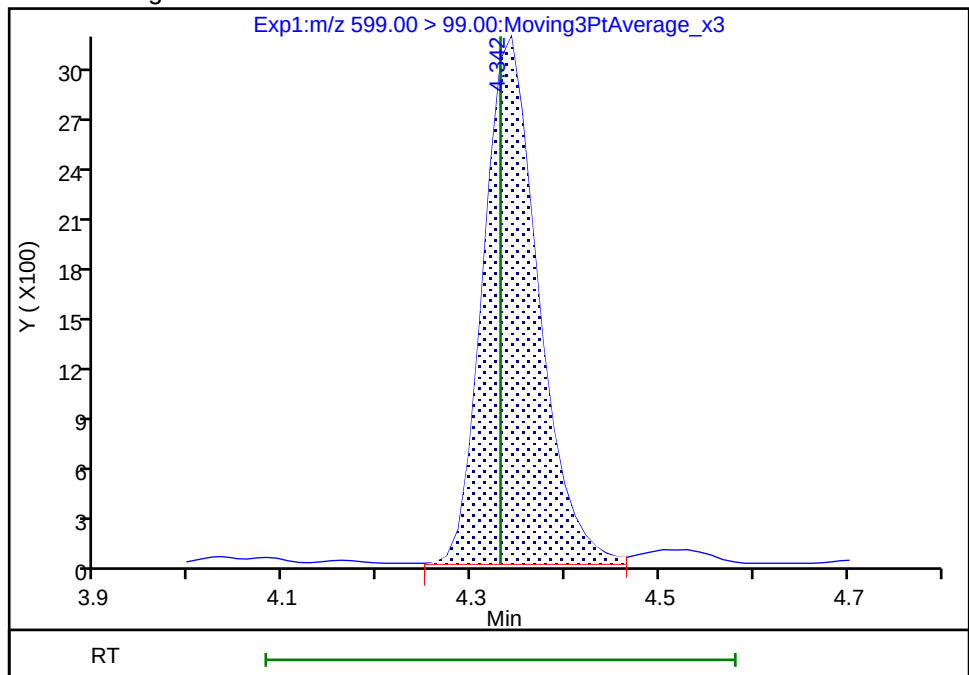
RT: 4.34
Area: 12747
Amount: 0.045152
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 12747
Amount: 0.045152
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

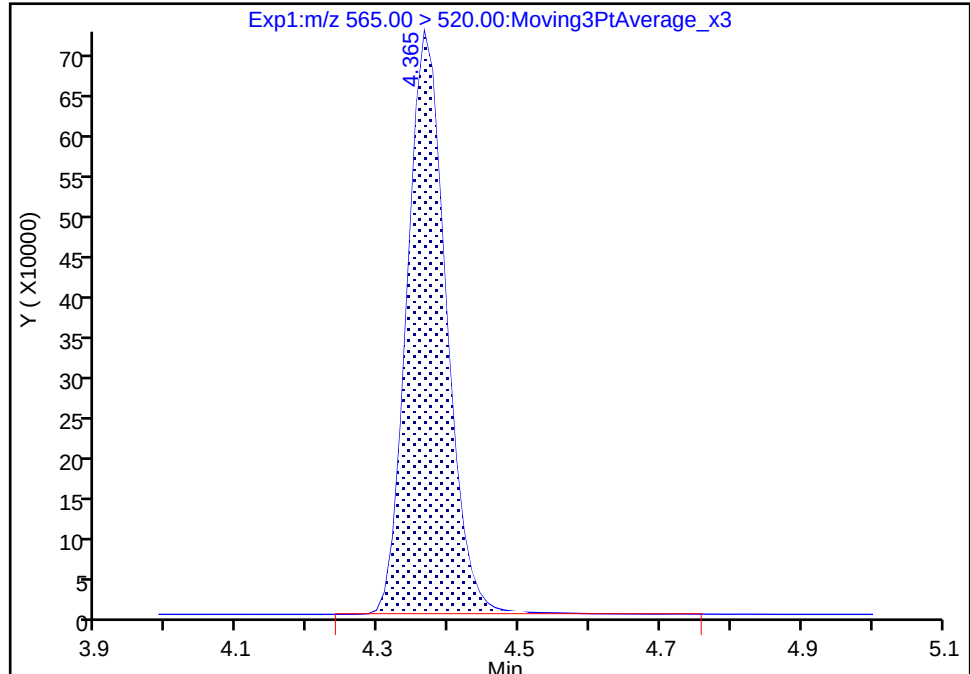
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

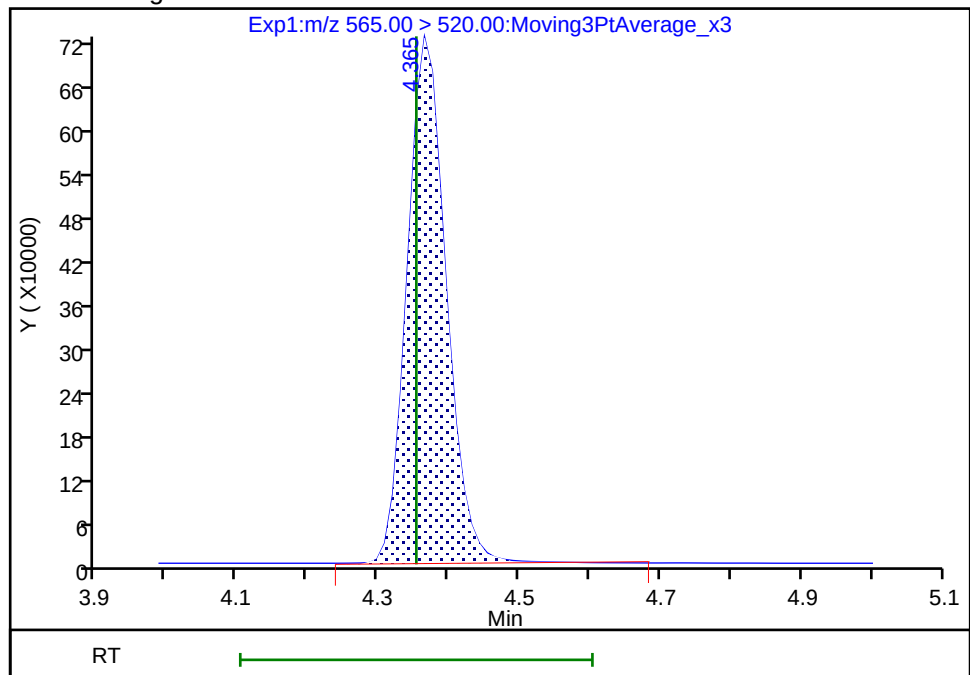
RT: 4.36
Area: 2771148
Amount: 1.344760
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 2769219
Amount: 1.343824
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:00:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

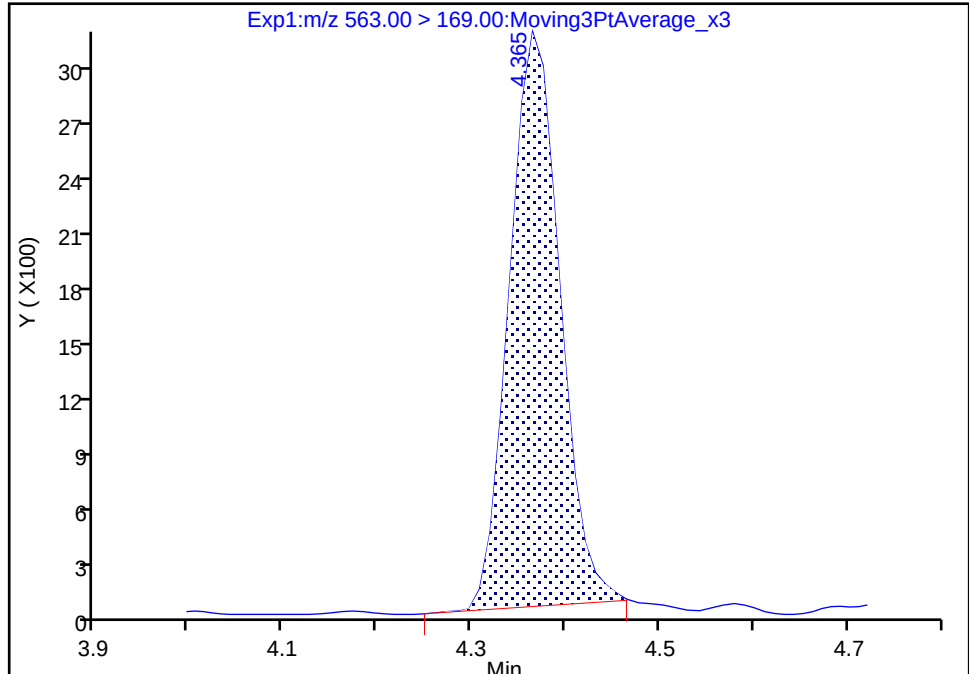
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

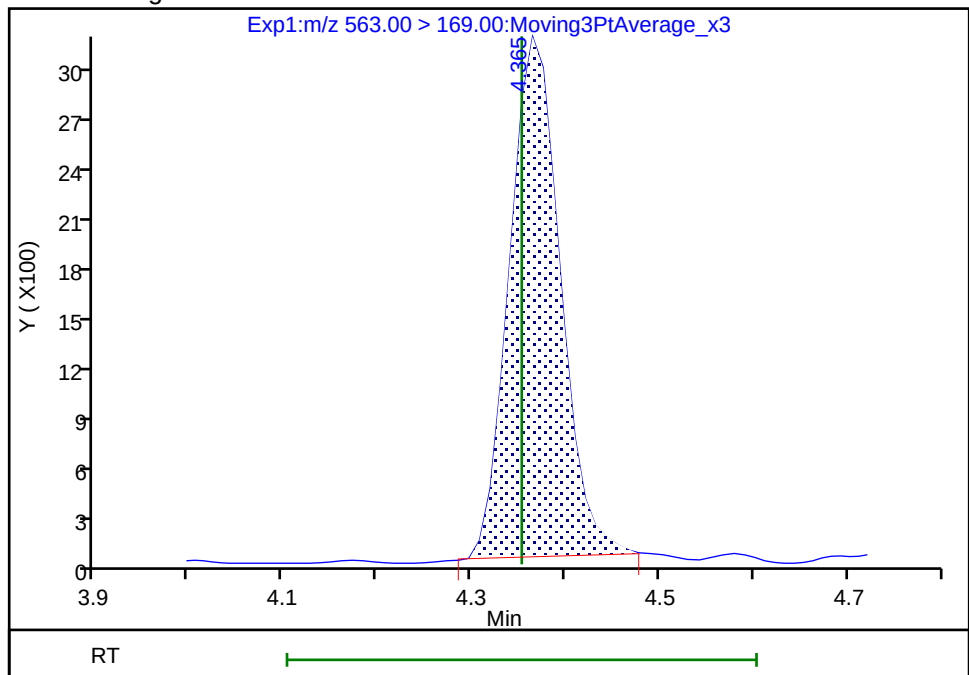
RT: 4.36
Area: 11642
Amount: 0.052723
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 11762
Amount: 0.052723
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:04:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

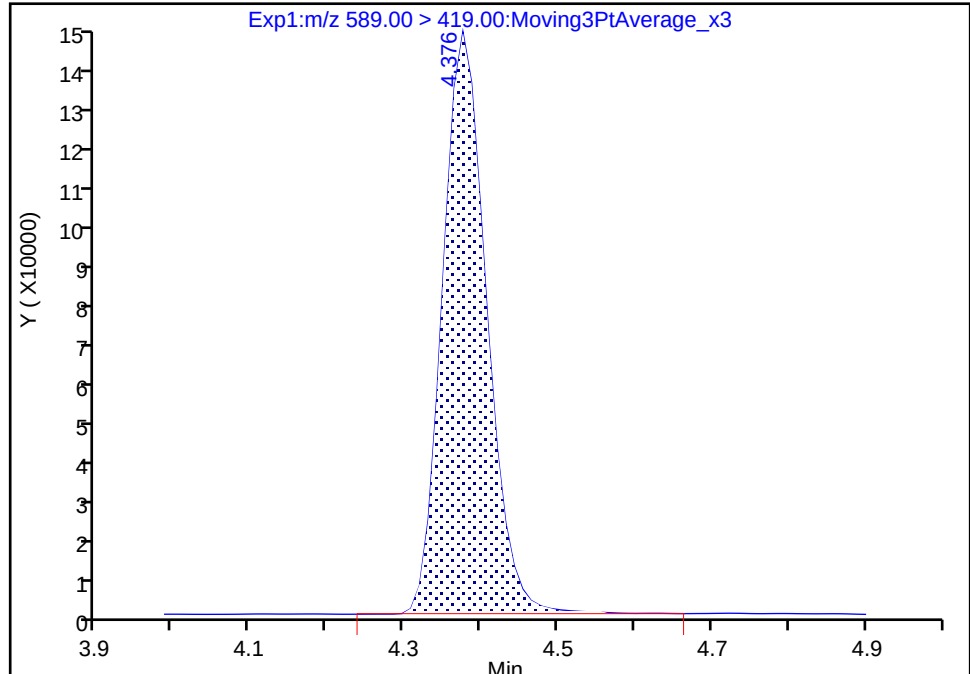
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Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

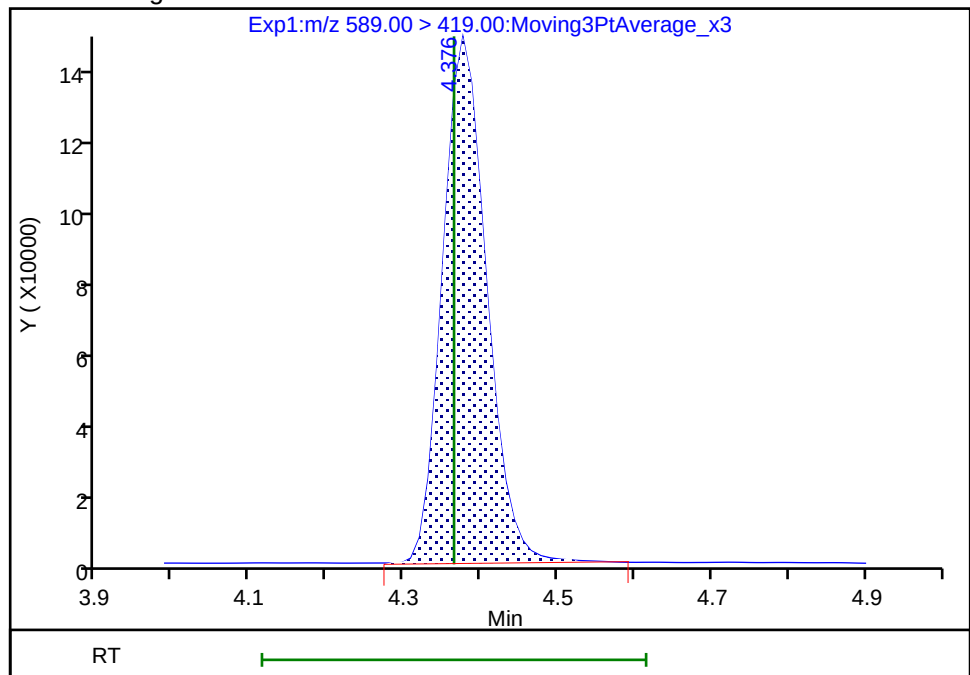
RT: 4.38
Area: 590840
Amount: 1.309560
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 589476
Amount: 1.306537
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:00:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

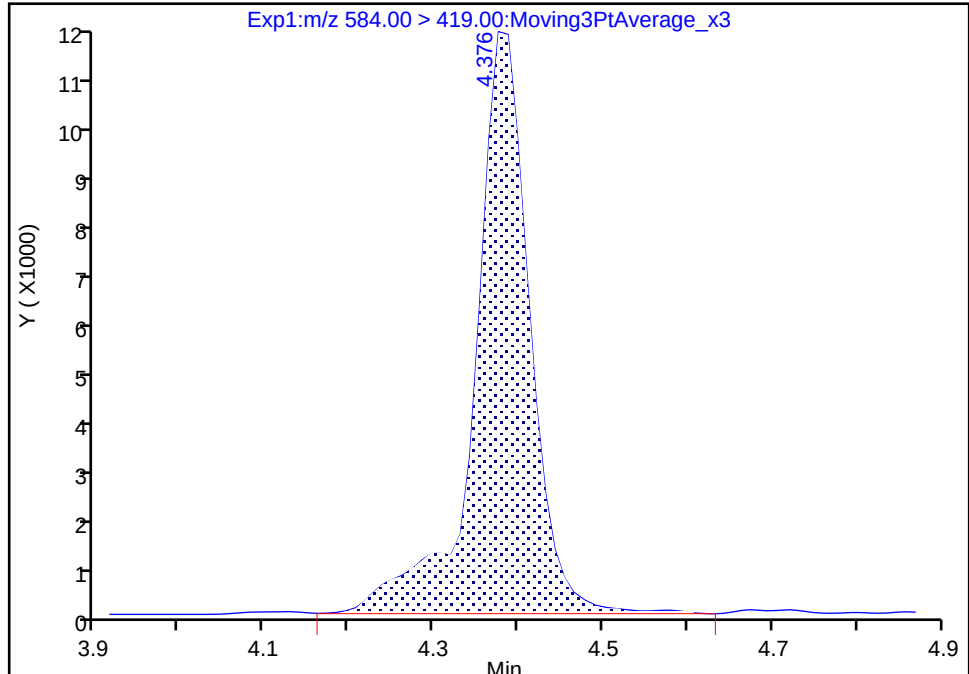
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

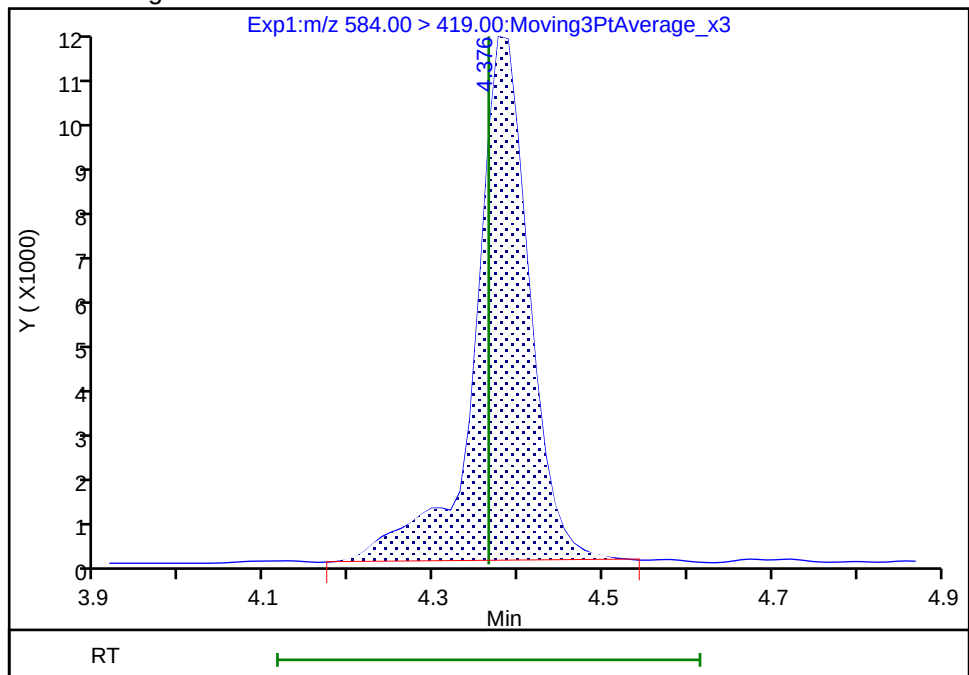
RT: 4.38
Area: 52270
Amount: 0.123809
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 50961
Amount: 0.120708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 12:39:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

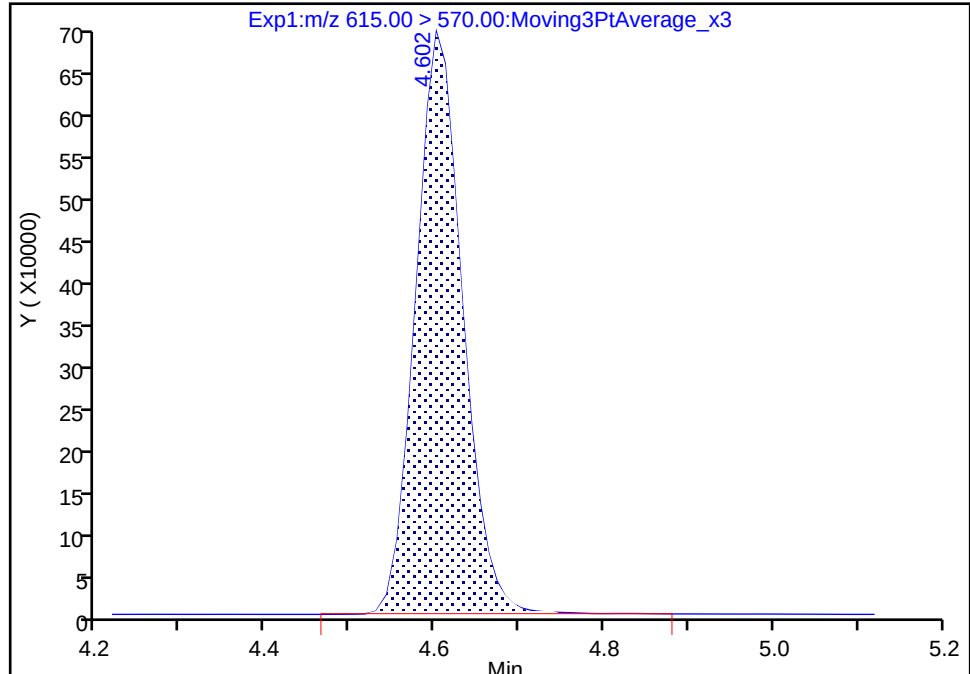
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

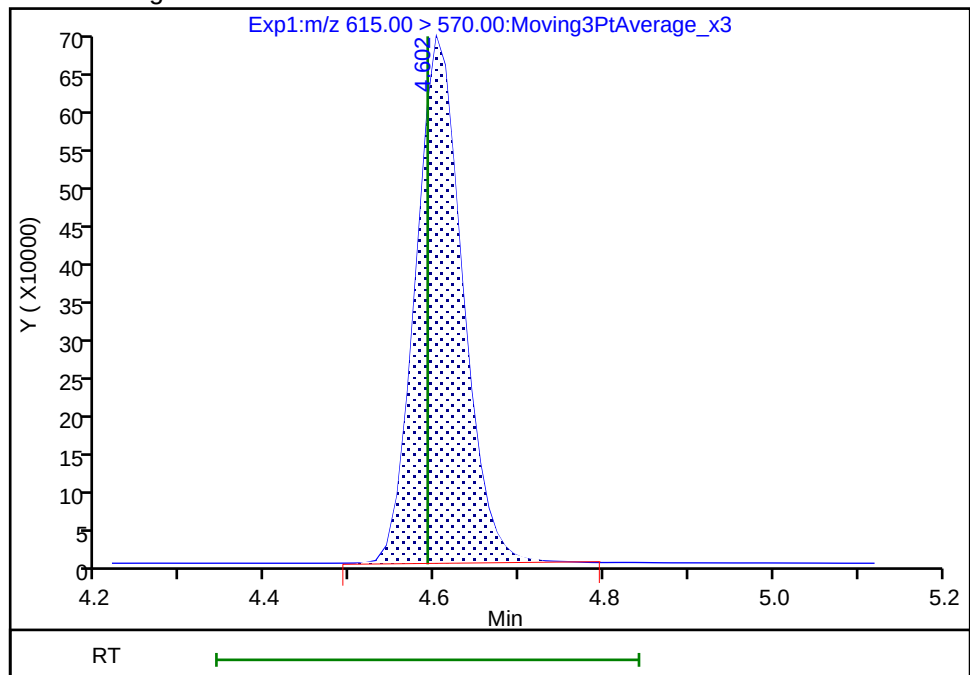
RT: 4.60
Area: 2679278
Amount: 1.276153
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 2671956
Amount: 1.272666
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:01:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

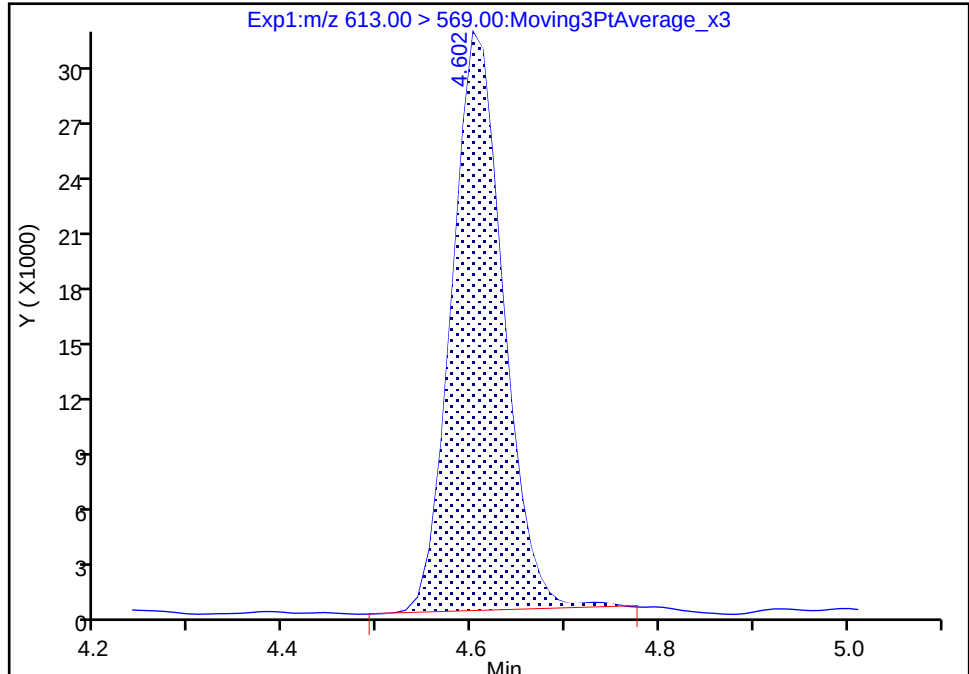
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

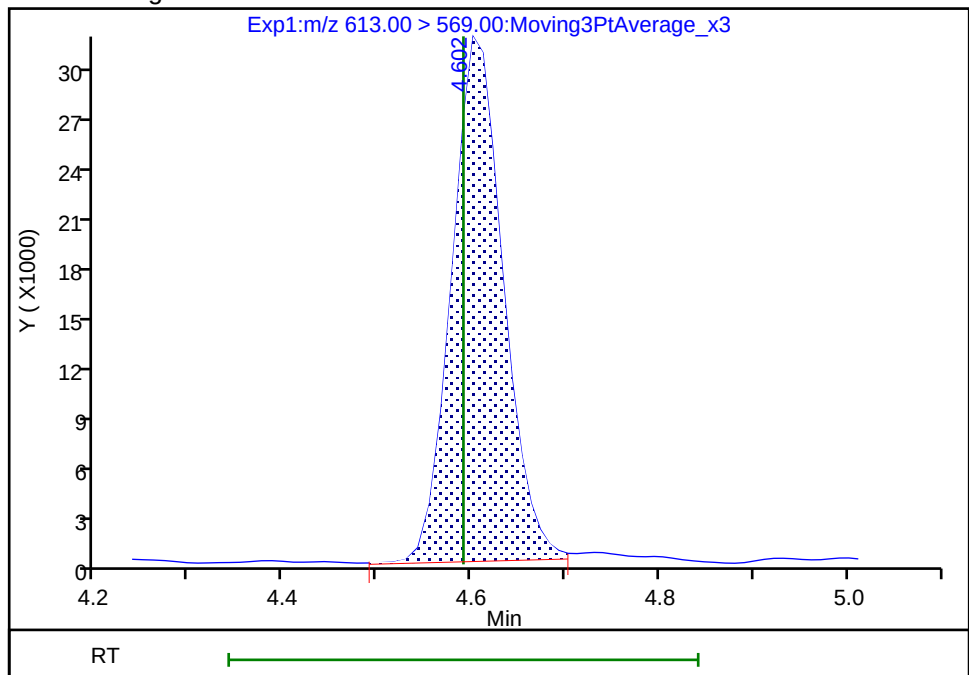
RT: 4.60
Area: 118388
Amount: 0.052276
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 117455
Amount: 0.051864
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:05:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

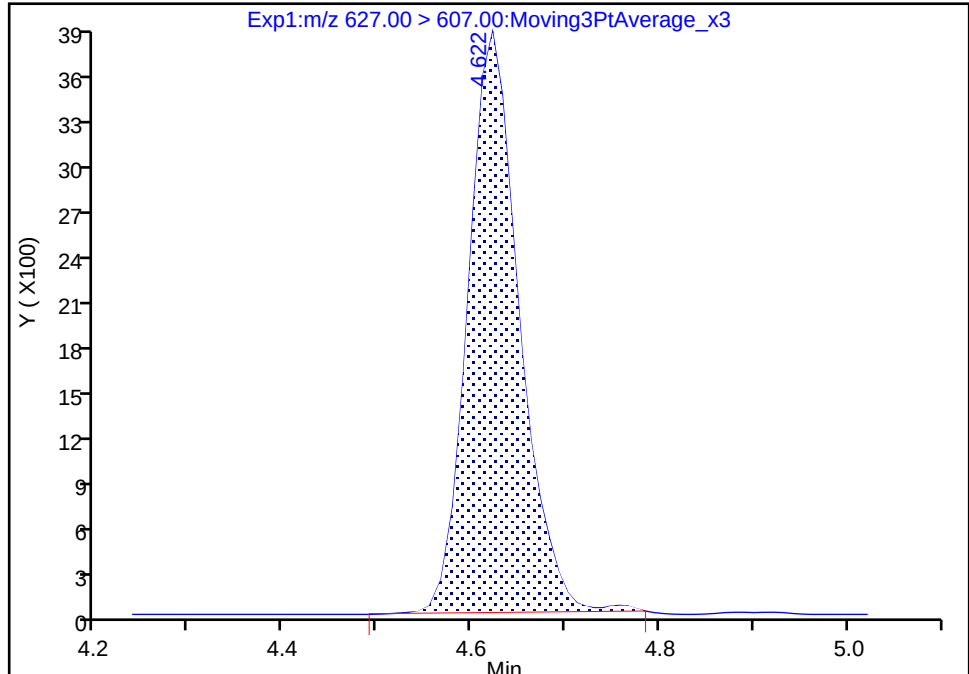
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Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

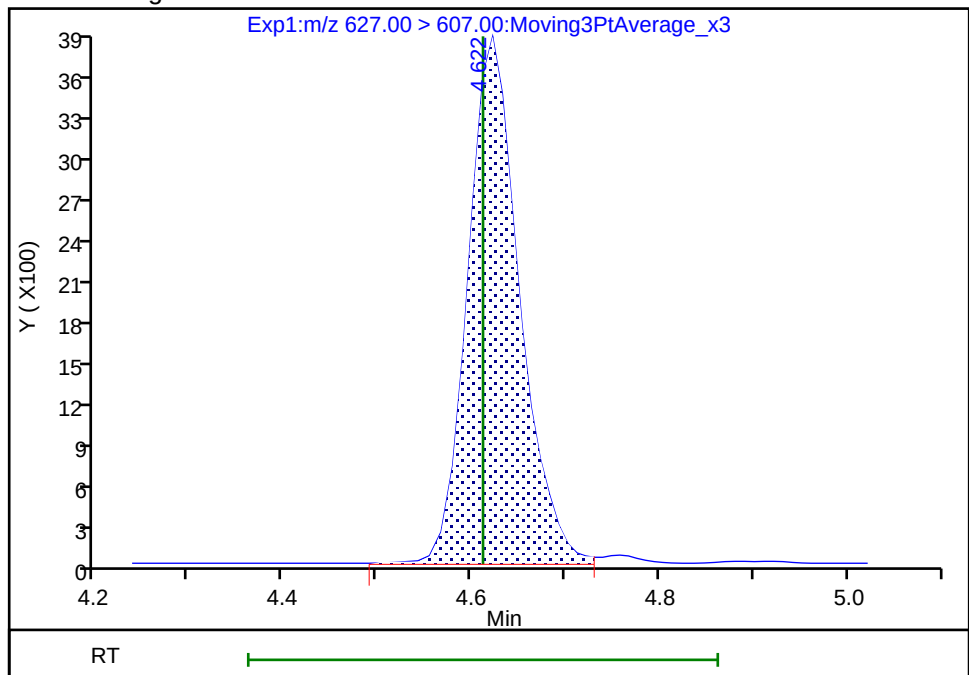
RT: 4.62
Area: 14746
Amount: 0.052355
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 14785
Amount: 0.052494
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:05:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

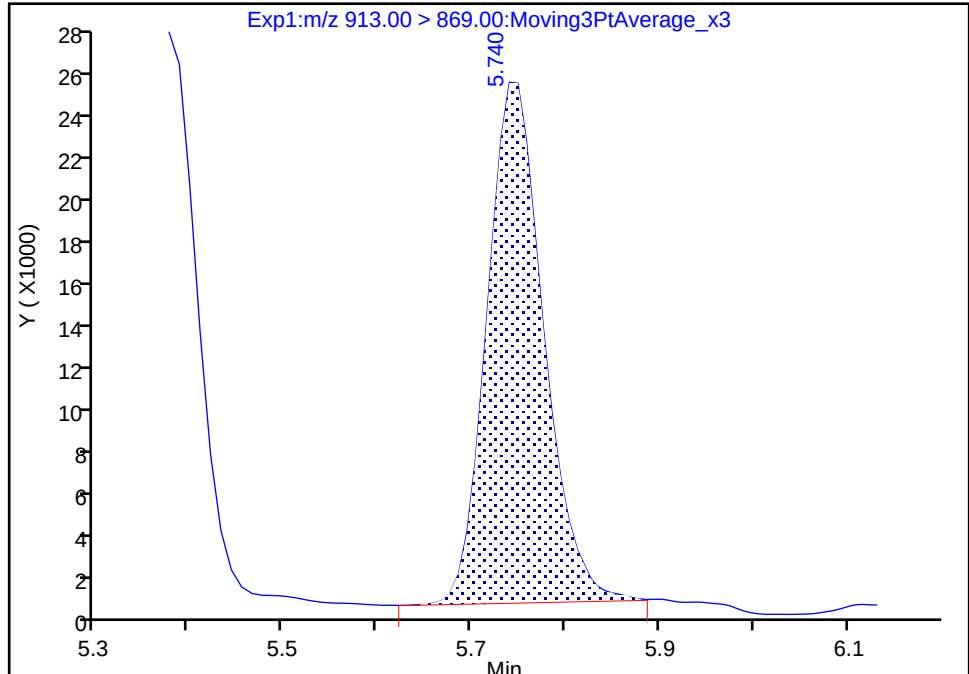
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

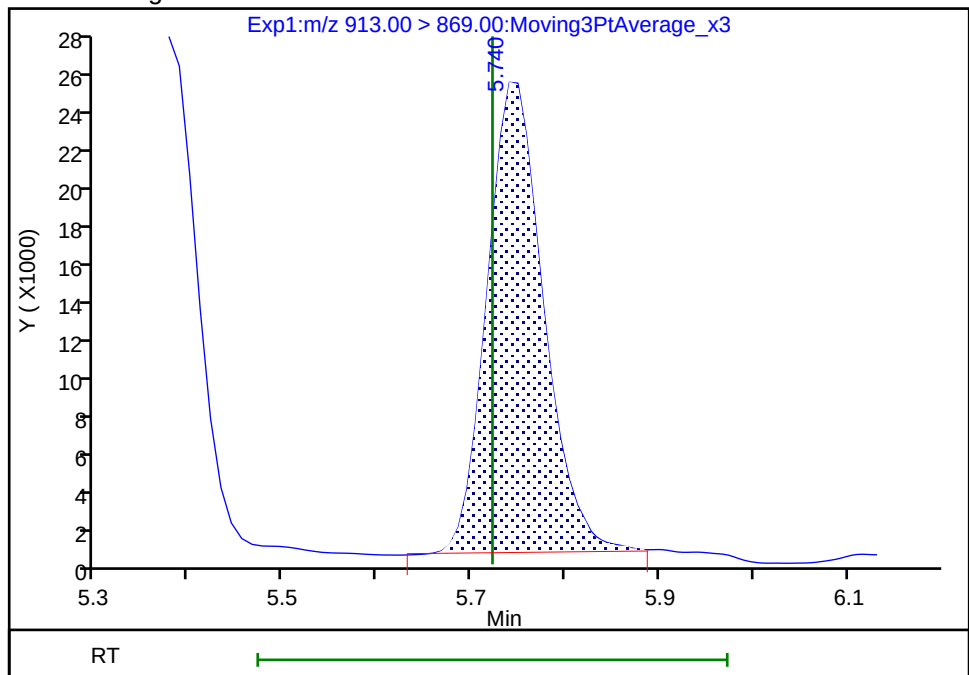
RT: 5.74
Area: 102752
Amount: 0.047296
Amount Units: ng/ml

Processing Integration Results



RT: 5.74
Area: 102566
Amount: 0.047211
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:05:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

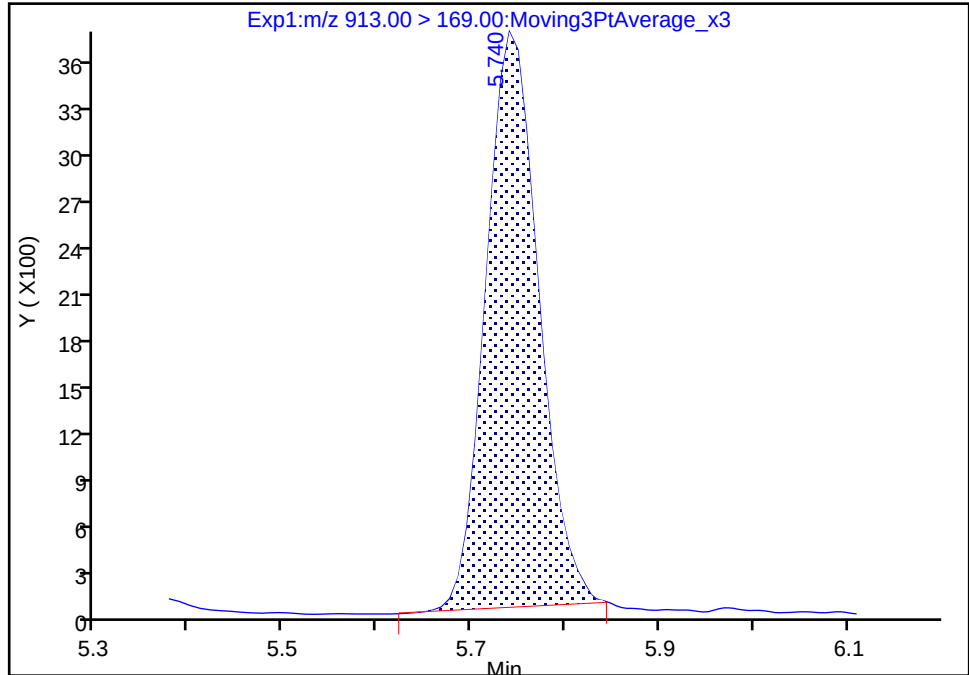
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A05.d
Injection Date: 16-Dec-2022 12:17:50 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

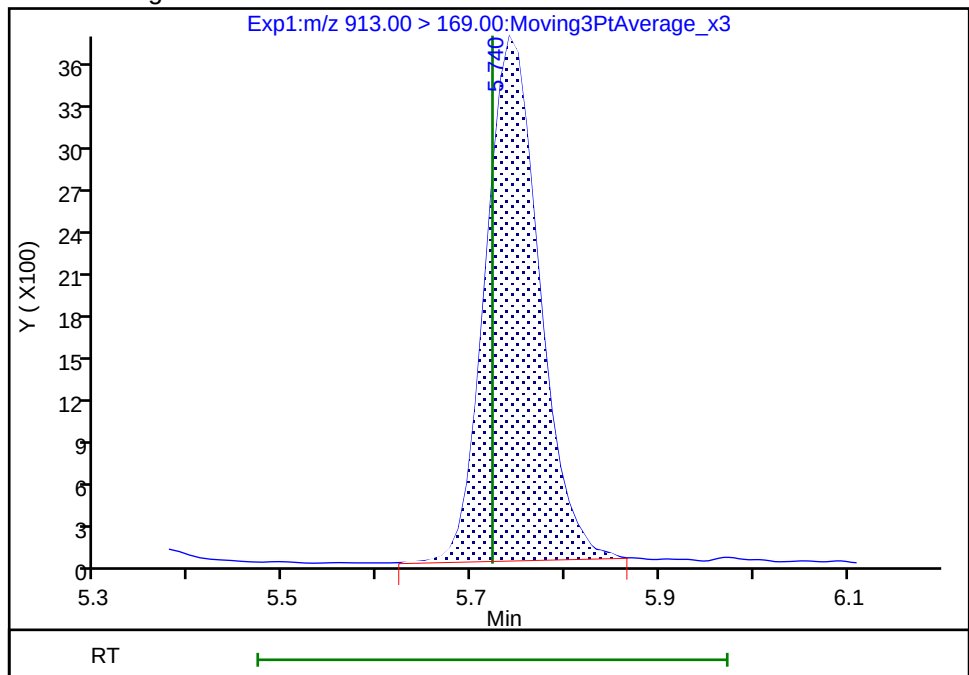
RT: 5.74
Area: 14392
Amount: 0.047296
Amount Units: ng/ml

Processing Integration Results



RT: 5.74
Area: 14710
Amount: 0.047211
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:05:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Lab Sample ID: CCV 200-186802/20 Calibration Date: 12/16/2022 14:20

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221216A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9207		0.893	1.00	-10.7	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.015		0.931	1.00	-6.9	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.013		0.783	0.884	-11.4	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.965		0.899	0.934	-3.8	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.003		0.921	1.00	-7.9	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.228		0.862	0.938	-8.1	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9896		0.937	1.00	-6.3	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.023		0.824	0.910	-9.4	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.026		0.942	1.00	-5.8	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.159		0.882	0.942	-6.3	
6:2 FTS	L1ID		2.167		0.960	0.948	1.3	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.284		0.875	0.952	-8.1	
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9527		0.891	1.00	-10.9	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.061		0.809	0.928	-12.8	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9491		0.915	1.00	-8.5	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.600		0.868	0.932	-6.8	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8620		0.901	0.960	-6.1	
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.050		0.968	1.00	-3.2	
8:2 FTS	AveID	1.617	1.650		0.978	0.958	2.1	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9511		0.910	1.00	-9.0	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8333		0.957	1.00	-4.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6726		0.895	0.964	-7.2	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9221		0.915	1.00	-8.5	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.7925		0.885	1.00	-11.5	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.048		0.886	0.942	-5.9	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9368		0.884	1.00	-11.6	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.311		1.30	0.964	35.0	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2854		0.901	0.968	-6.9	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Lab Sample ID: CCV 200-186802/20 Calibration Date: 12/16/2022 14:20
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221216A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9633		0.951	1.00	-4.9	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1266		0.925	1.00	-7.5	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8829		0.943	1.00	-5.7	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7901		0.959	1.00	-4.1	
13C4 PFBA	Ave	1.122	1.026		1.14	1.25	-8.5	
13C5 PFPeA	Ave	0.8543	0.7889		1.15	1.25	-7.7	
13C3 PFBS	Ave	0.9281	0.8845		1.11	1.16	-4.7	
M2-4:2 FTS	Ave	0.0820	0.0777		1.11	1.17	-5.2	
13C2 PFHxA	Ave	0.8951	0.8493		1.19	1.25	-5.1	
13C3 HFPO-DA	Ave	0.1580	0.1477		1.17	1.25	-6.5	
18O2 PFHxS	Ave	0.6761	0.6581		1.15	1.18	-2.7	50.0
13C4 PFHpA	Ave	0.9206	0.8775		1.19	1.25	-4.7	50.0
M2-6:2 FTS	Ave	0.1134	0.1118		1.17	1.19	-1.4	
13C4 PFOA	Ave	1.035	1.023		1.24	1.25	-1.2	50.0
13C4 PFOS	Ave	0.4588	0.4380		1.14	1.20	-4.5	50.0
13C5 PFNA	Ave	1.006	1.030		1.28	1.25	2.4	50.0
13C2 PFDA	Ave	1.025	1.053		1.29	1.25	2.8	
M2-8:2 FTS	Ave	0.1387	0.1491		1.29	1.20	7.5	
13C8 FOSA	Ave	0.8403	0.8187		1.22	1.25	-2.6	
d3-NMeFOSAA	Ave	0.2087	0.2256		1.35	1.25	8.1	
13C2 PFUnA	Ave	0.9385	1.024		1.36	1.25	9.2	
d5-NEtFOSAA	Ave	0.2055	0.2373		1.44	1.25	15.5	
13C2 PFDoA	Ave	0.9562	1.100		1.44	1.25	15.1	
13C2 PFTeDA	Ave	0.8270	0.9782		1.48	1.25	18.3	
13C2 PFHxDA	Ave	1.022	1.093		1.34	1.25	6.9	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Dec-2022 14:20:22 ALS Bottle#: 17 Worklist Smp#: 20
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053717-020 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:12:39 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 09:11:19

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										M
217.00 > 172.00	2.085	2.076	0.009	0.603	2672079	1.14		91.5	6815	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	1968175	0.8929		89.3	198	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.387	0.013	0.695	2053909	1.15		92.3	3053	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.387	0.013	1.000	1667514	0.9312		93.1	49.2	
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.400	0.013	0.698	2141512	1.11		95.3	201940	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.413	2.400	0.013	1.000	1650218	0.7830	Target=2.09	88.6	1812	
298.90 > 99.00	2.413	2.400	0.013	1.000	782162		2.11(1.04-3.13)		626	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.713	2.689	0.024	1.000	448437	0.8989		96.2	1074	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.713	2.689	0.024	0.785	189046	1.11		94.8	194	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.737	2.725	0.012	0.792	2211194	1.19		94.9	2946	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.000	1774286	0.9205	Target=14.25	92.1	306	M
313.00 > 119.00	2.737	2.725	0.012	1.000	130392		13.61(7.12-21.37)		229	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.749	2.737	0.012	0.887	1578732	0.8625	Target=3.04	91.9	1818	
349.00 > 99.00	2.749	2.737	0.012	0.887	539620		2.93(1.52-4.56)		1056	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.847	2.835	0.012	1.000	304387	0.9372		93.7	1471	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.847	2.835	0.012	0.824	384489	1.17		93.5	1309	
D 11 18O2 PFHxS										
403.00 > 84.00	3.098	3.088	0.010	0.897	1620858	1.15		97.3	2820	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.098	3.088	0.010	1.000	1275505	0.8245	Target=3.66	90.6	1313	M
399.00 > 99.00	3.098	3.088	0.010	1.000	367847		3.47(1.83-5.49)		474	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.110	3.099	0.011	0.900	2284452	1.19		95.3	1844	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.110	3.099	0.011	1.000	1874686	0.9421	Target=3.97	94.2	366	M
363.00 > 169.00	3.110	3.099	0.011	1.000	472182		3.97(1.98-5.95)		920	M
77 DONA										
377.00 > 251.00	3.143	3.132	0.011	0.833	4432973	0.8825	Target=3.16	93.7	2853	M
377.00 > 85.00	3.143	3.132	0.011	0.833	1399005		3.17(1.58-4.73)		1462	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.446	3.439	0.007	0.997	276415	1.17		98.6	657	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.446	3.439	0.007	1.000	478118	0.9605		101	813	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.446	3.439	0.007	0.914	1114548	0.8748	Target=5.14	91.9	1291	M
449.00 > 99.00	3.446	3.439	0.007	0.914	228526		4.88(2.57-7.72)		904	M
D 14 13C4 PFOA										
417.00 > 372.00	3.455	3.448	0.007	1.000	2663449	1.24		98.8	3723	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.448	0.007		2603411	1.25			3660	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.455	3.448	0.007	1.000	2029910	0.8911	Target=2.79	89.1	148	M
413.00 > 169.00	3.455	3.448	0.007	1.000	746059		2.72(1.40-4.19)		1777	M
D 18 13C4 PFOS										
503.00 > 80.00	3.772	3.764	0.008	1.092	1090003	1.14		95.5	976	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.772	3.764	0.008	1.000	897925	0.8095	Target=5.11	87.2	547	M
499.00 > 99.00	3.772	3.764	0.008	1.000	195381		4.60(2.55-7.66)		466	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.791	3.783	0.008	1.000	2036573	0.9149	Target=8.55	91.5	338	
463.00 > 169.00	3.791	3.783	0.008	1.000	246993		8.25(4.28-12.83)		1095	M
D 19 13C5 PFNA										
468.00 > 423.00	3.791	3.783	0.008	1.097	2682240	1.28		102	3793	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.939	3.928	0.011	1.044	2210273	0.8682		93.2	3329	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.076	754776	0.9015	Target=2.53	93.9	1259	
549.00 > 99.00	4.061	4.050	0.011	1.076	312069		2.42(1.27-3.80)		1005	M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.184	2742461	1.28		103	3514	

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	4.093	4.081	0.012	1.000	2303391	0.9681	Target=10.26	96.8	400	
513.00 > 169.00	4.093	4.081	0.012	1.000	211211		10.91(5.13-15.38)		581	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.093	0.011	1.188	371959	1.29		108	730	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.093	0.011	1.000	491053	0.9777		102	1091	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1621778	0.9103		91.0	1862	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.201	2131519	1.22		97.4	2566	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.224	587310	1.35		108	755	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	391529	0.9571		95.7	346	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.148	591410	0.8946	Target=2.51	92.8	1017	M
599.00 > 99.00	4.331	4.331	0.0	1.148	237775		2.49(1.25-3.76)		1660	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.260	2667090	1.36		109	5477	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.365	4.353	0.012	1.003	1967505	0.9150	Target=9.88	91.5	398	
563.00 > 169.00	4.365	4.353	0.012	1.003	199728		9.85(4.94-14.82)		759	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.365	0.011	1.003	391688	0.8853		88.5	774	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.263	617780	1.44		115	974	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.181	3477811	0.8862		94.1	3188	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.602	4.591	0.011	1.002	2146416	0.8842	Target=7.77	88.4	132	
613.00 > 169.00	4.602	4.591	0.011	1.002	298267		7.20(3.89-11.66)		1447	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.329	2864141	1.44		115	4958	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.124	392665	1.30		135	1521	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.266	251963	0.9008	Target=0.50	93.1	465	
699.00 > 99.00	4.776	4.776	0.0	1.266	481815		0.52(0.25-0.76)		2168	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.813	4.804	0.009	1.048	2207298	0.9508	Target=5.21	95.1	150	M
663.00 > 169.00	4.813	4.804	0.009	1.048	404927		5.45(2.60-7.81)		1122	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	257872	0.9246	Target=0.89	92.5	1059	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	285954		0.90(0.44-1.33)		1774	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.451	2546616	1.48		118	5171	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.000	2009952	0.9432	Target=5.65	94.3	209	M
813.00 > 169.00	5.378	5.367	0.011	1.000	326572		6.15(2.82-8.47)		1624	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.367	0.011	1.556	2845540	1.34		107	4169	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.740	5.722	0.018	1.067	1798619	0.9593	Target=6.24	95.9	239	M
913.00 > 169.00	5.731	5.722	0.009	1.066	274321		6.56(3.12-9.36)		937	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00037

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d

Injection Date: 16-Dec-2022 14:20:22

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

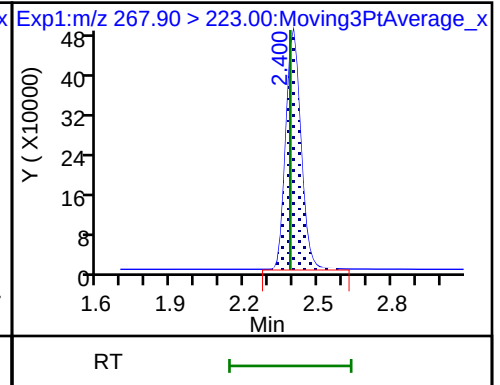
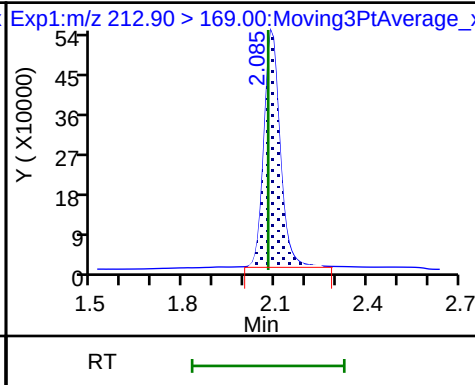
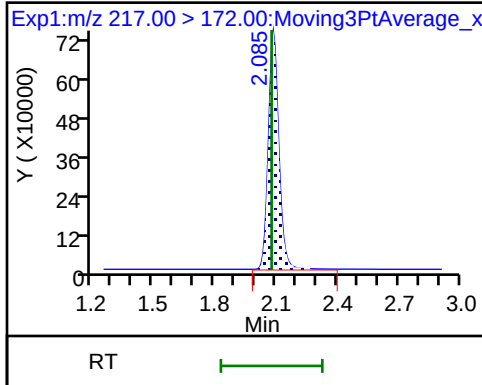
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

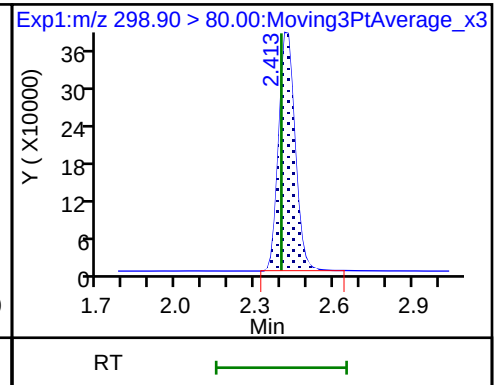
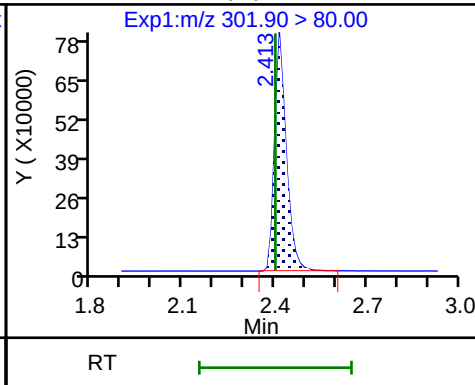
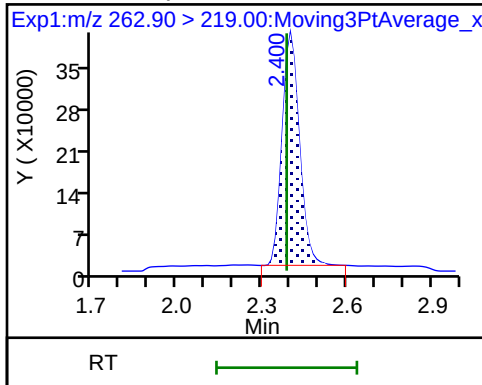
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

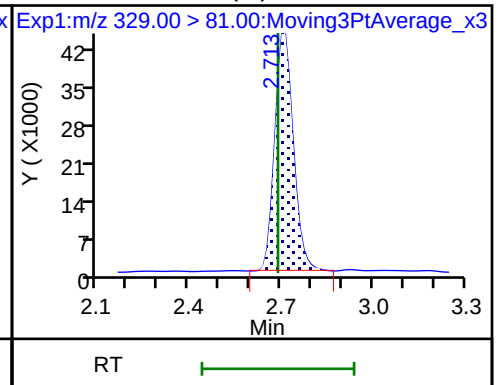
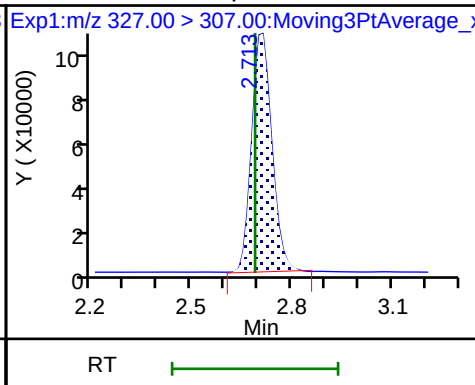
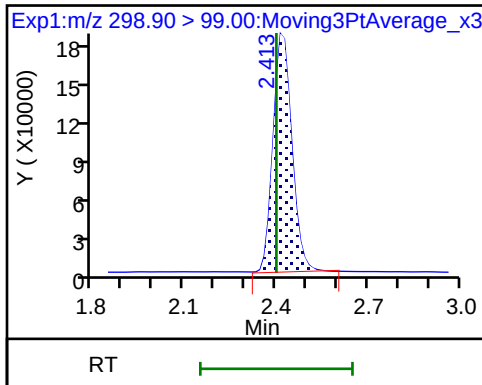
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

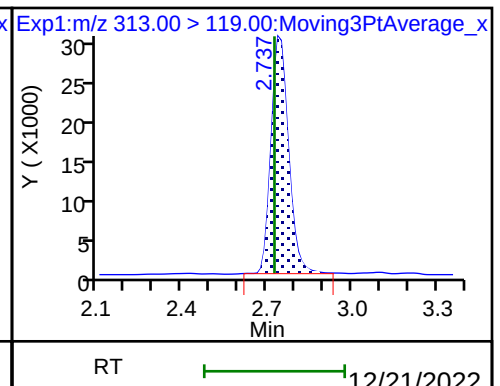
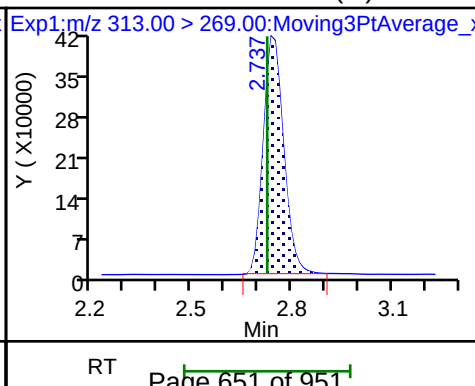
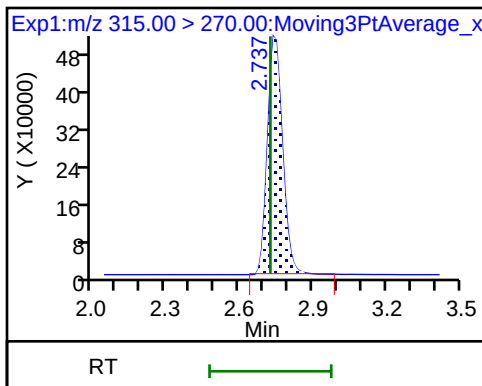
D 60 M2-4:2 FTS (M)

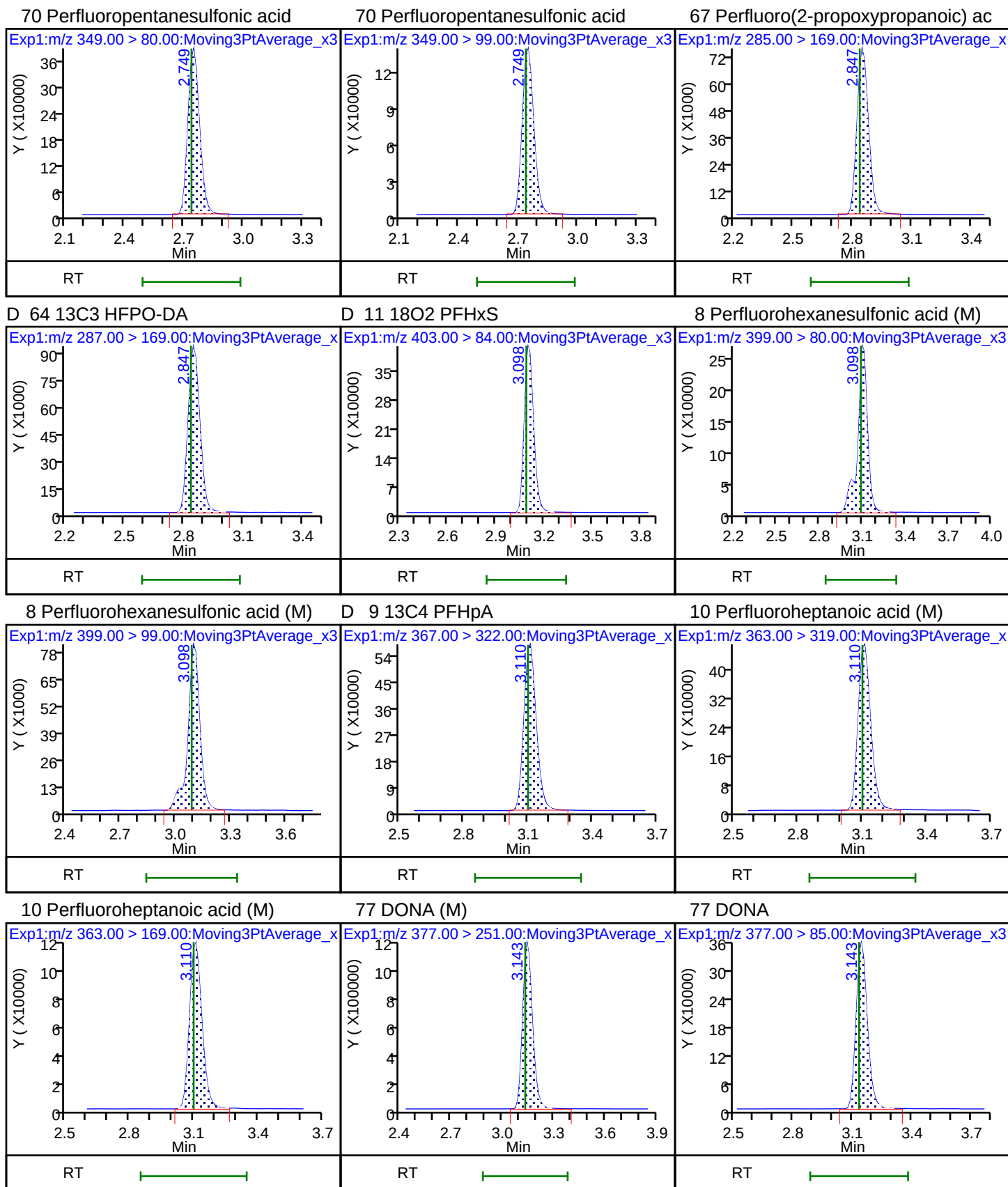


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

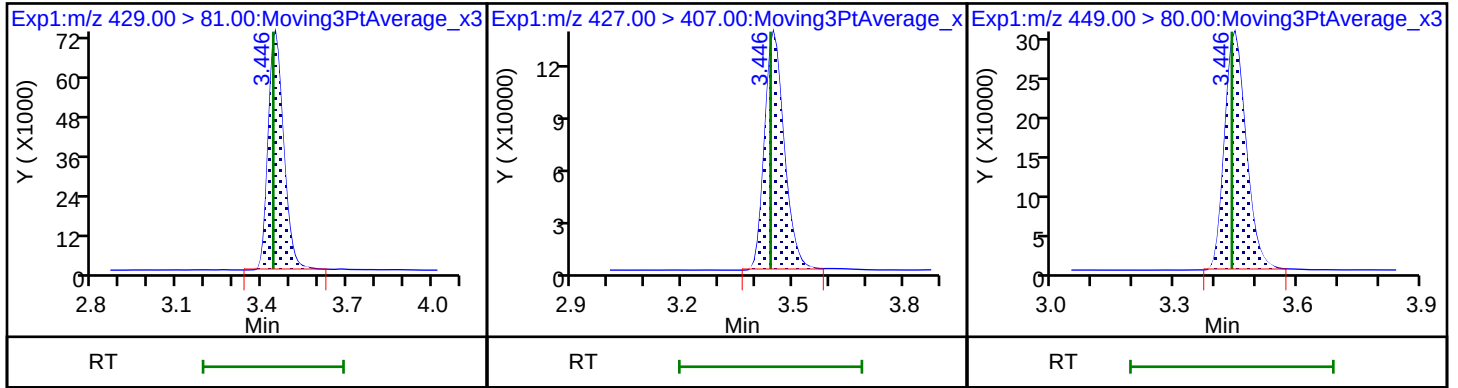




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

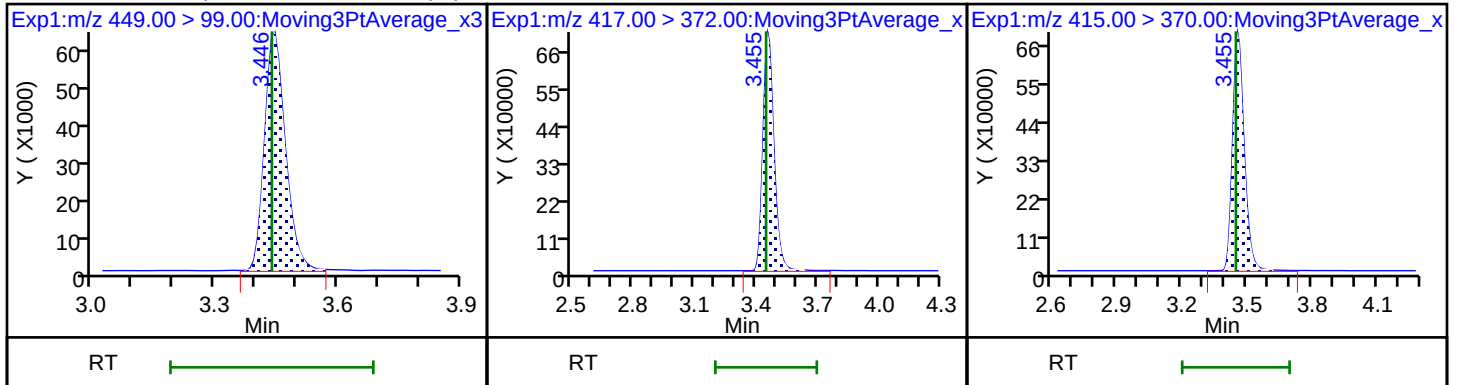
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

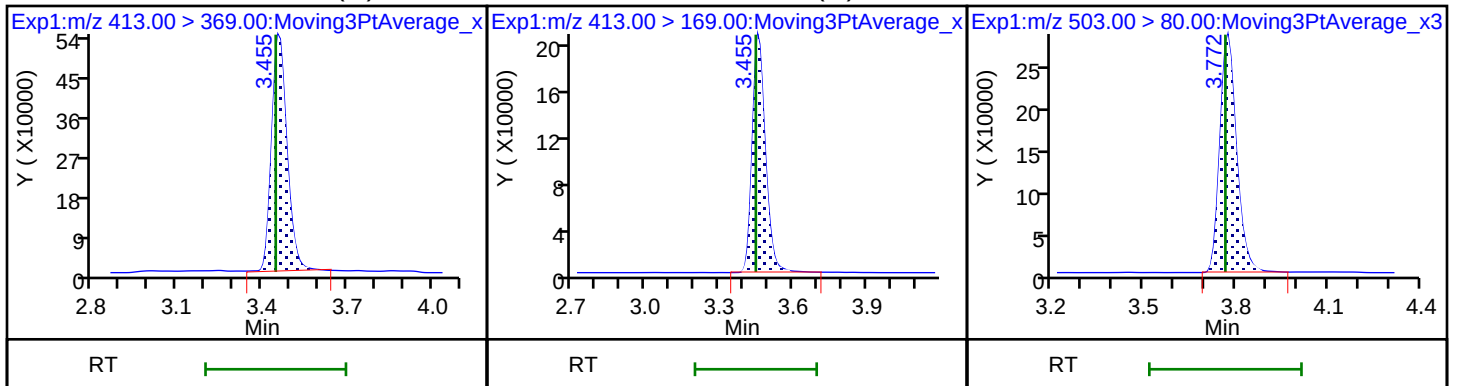
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

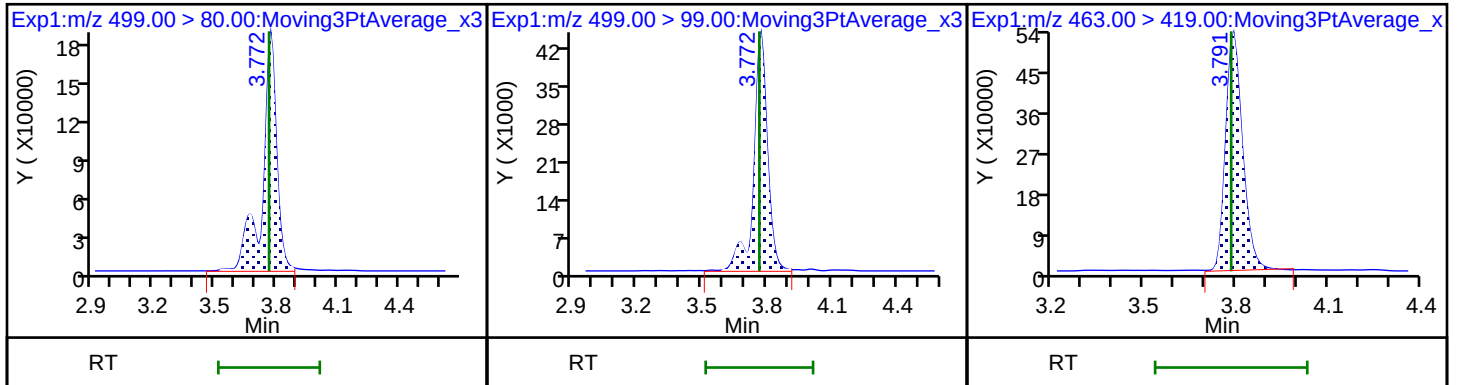
D 18 13C4 PFOS

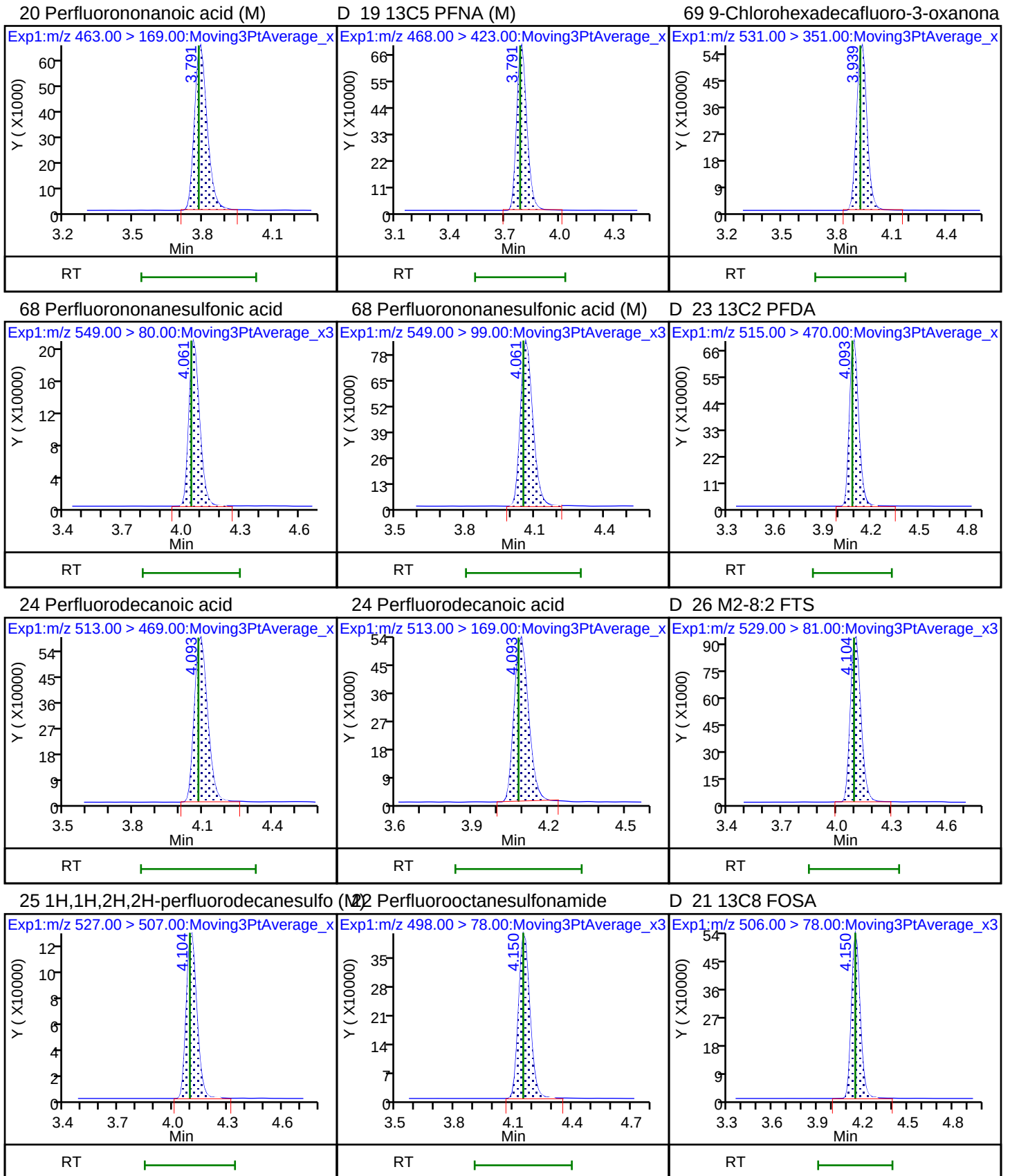


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

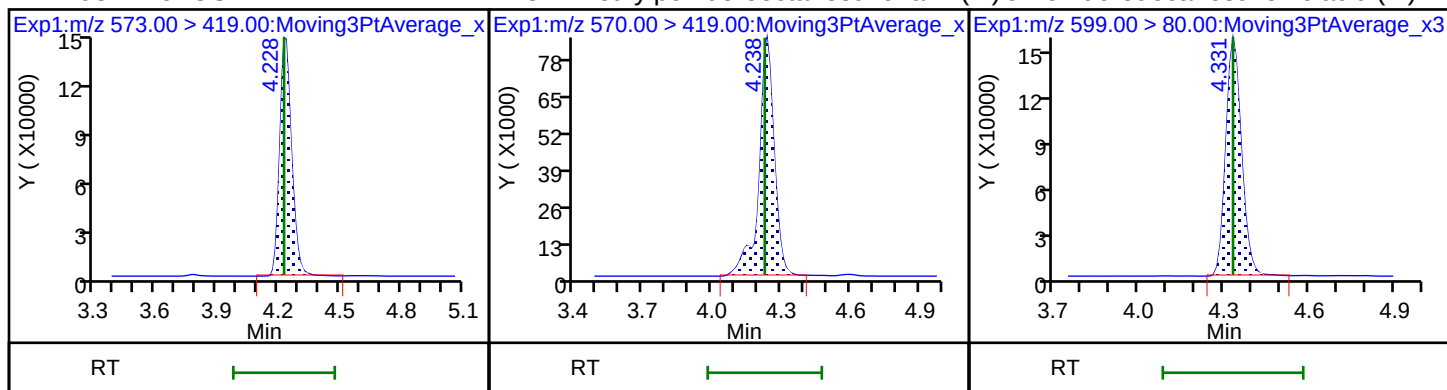
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

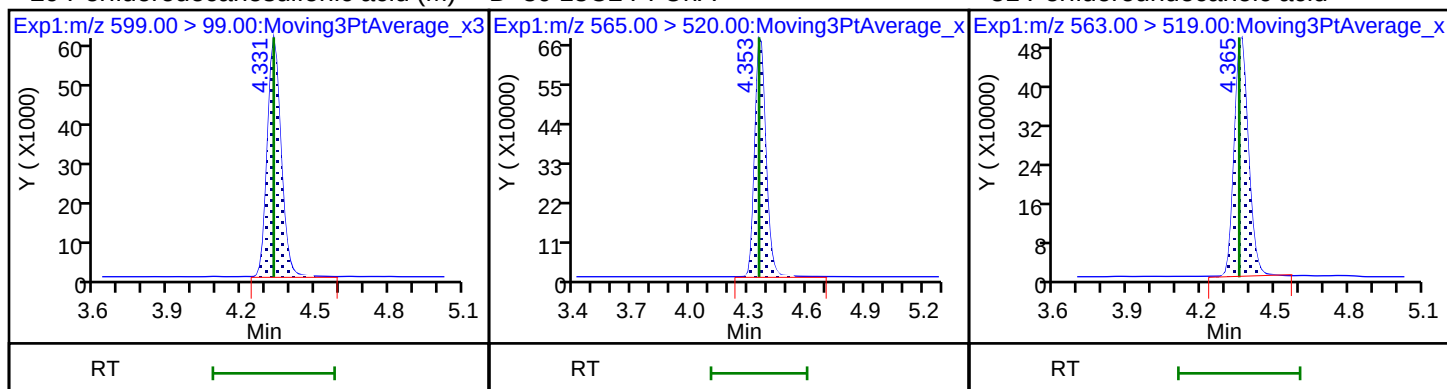
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

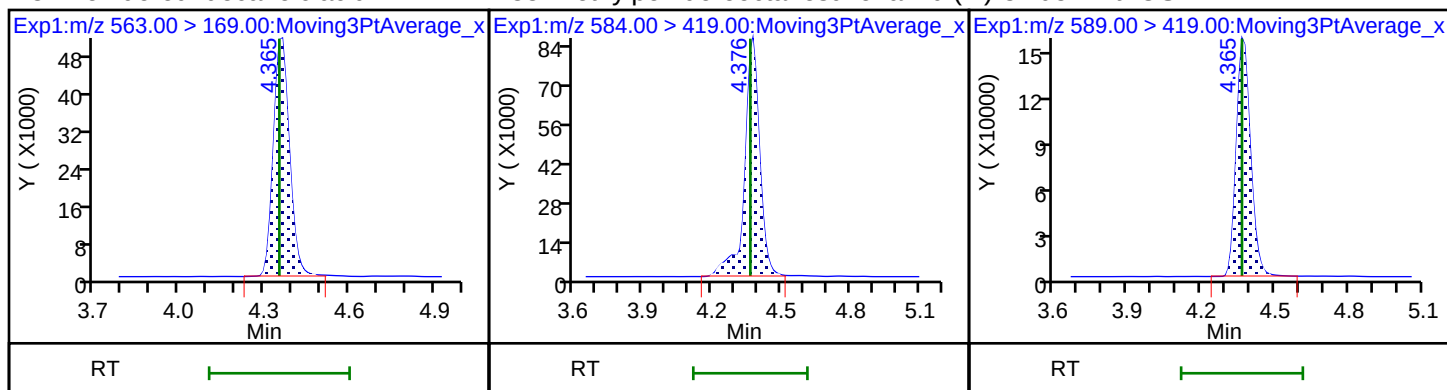
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

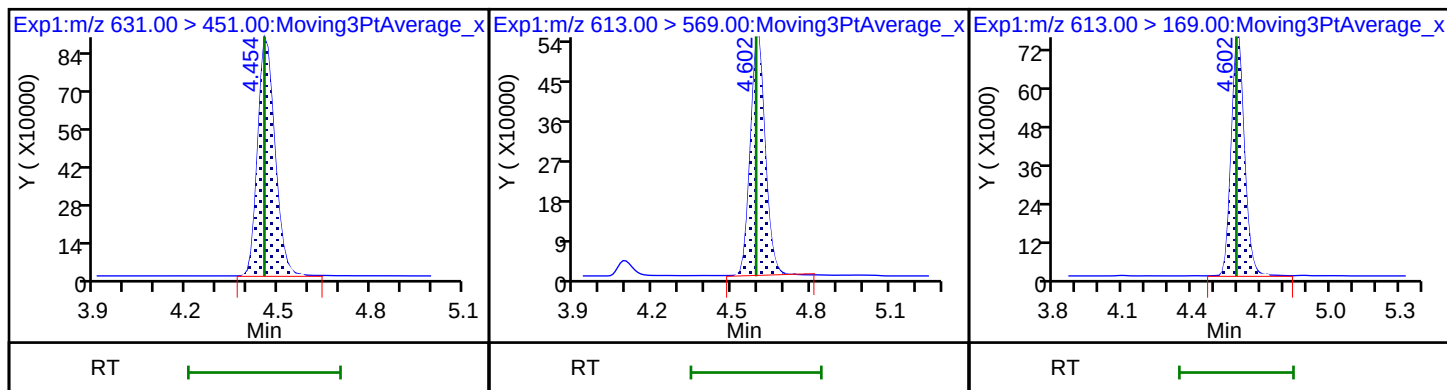
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

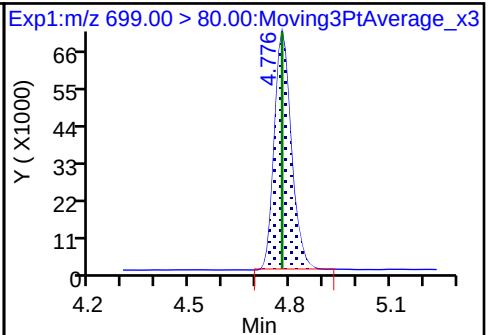
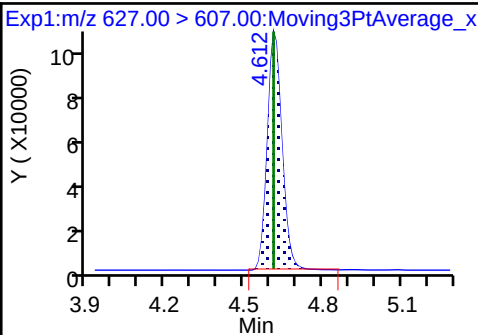
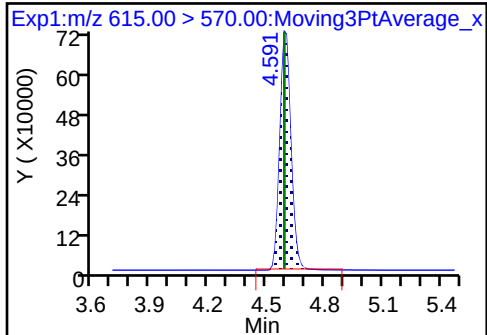
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

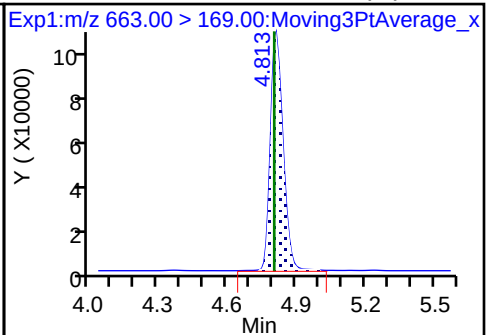
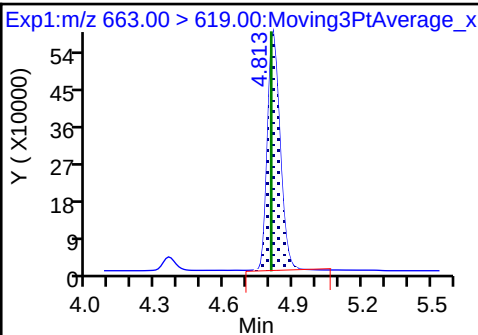
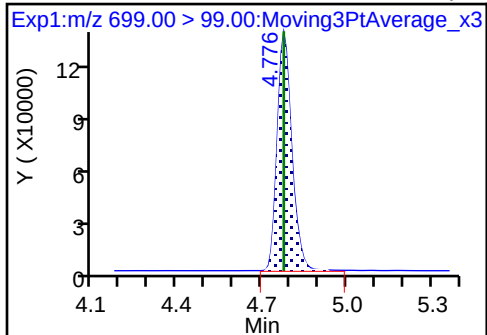
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

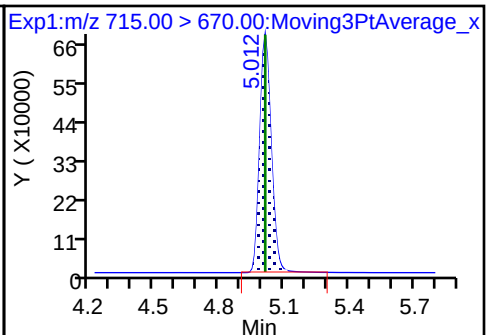
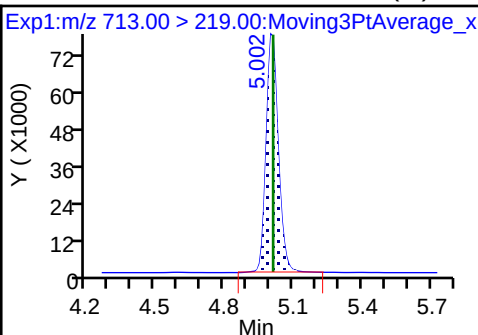
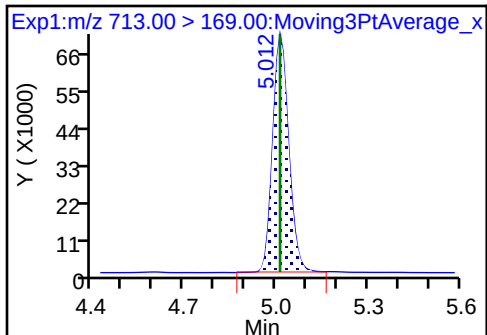
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

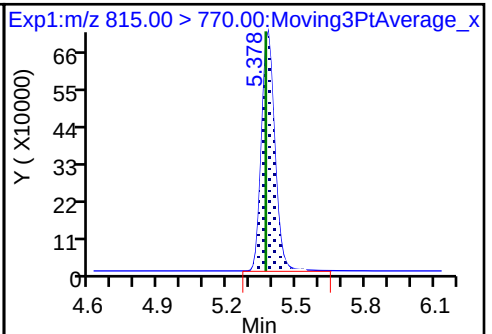
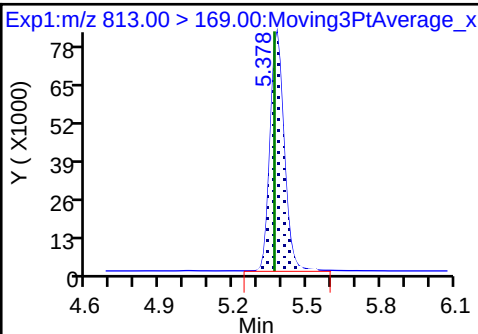
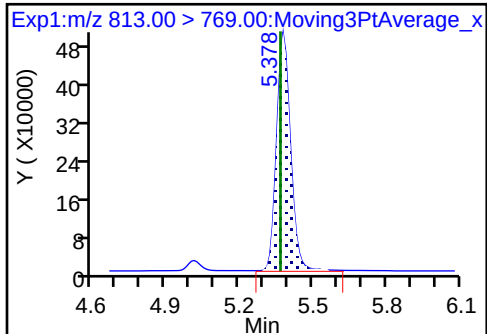
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid

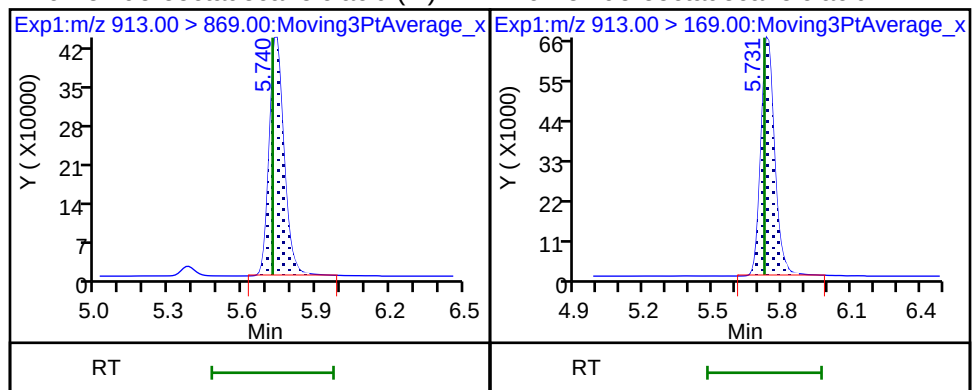
D 44 13C2 PFHxDA



Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d

46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

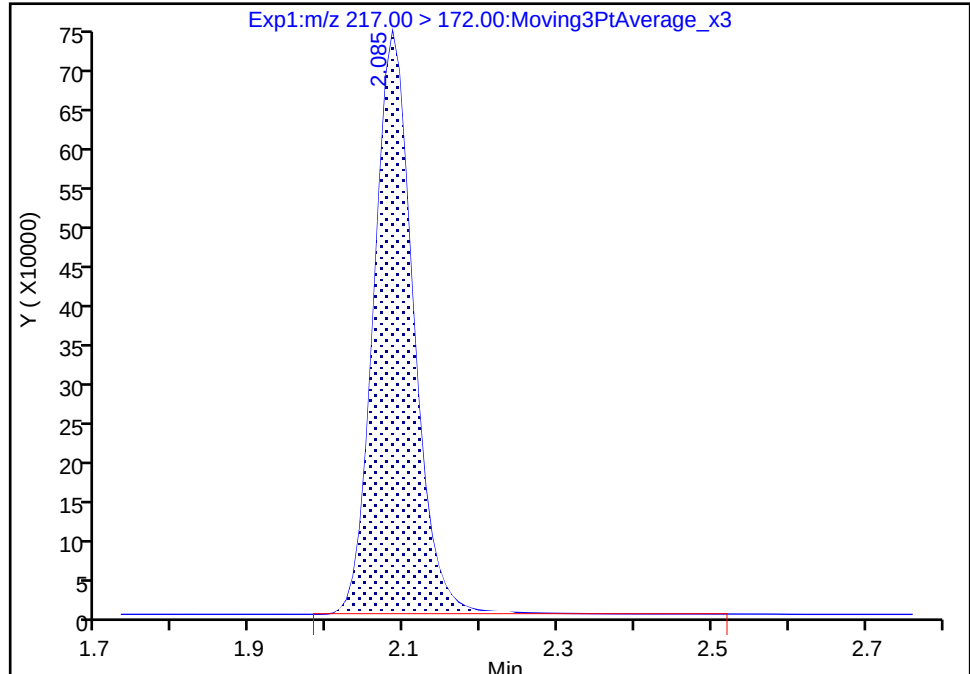
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Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

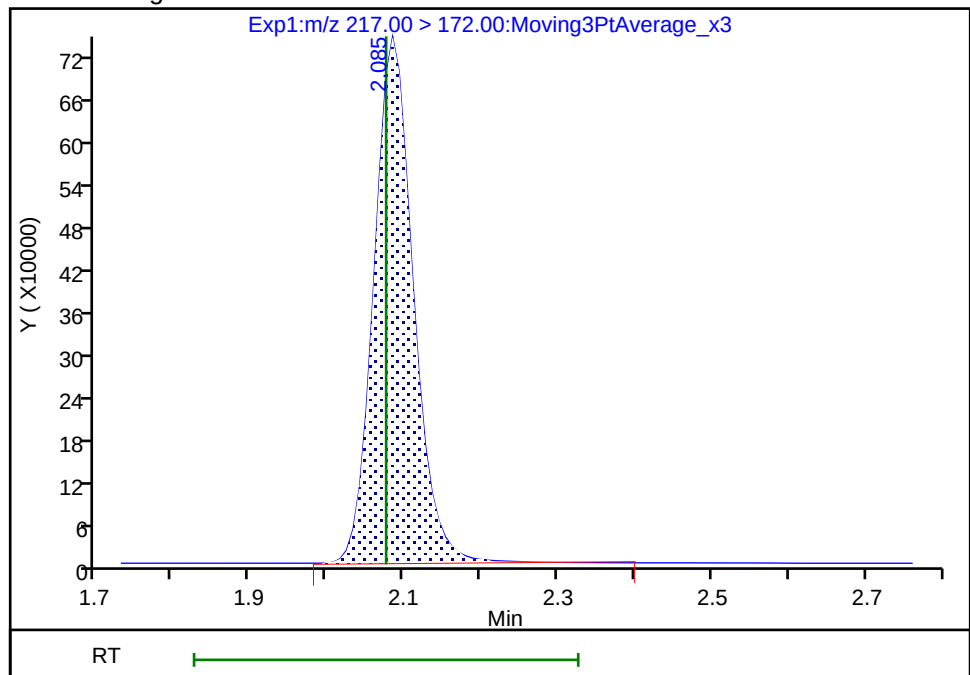
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Area: 2676079
Amount: 1.145487
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2672079
Amount: 1.143775
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:06:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d

Injection Date: 16-Dec-2022 14:20:22

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

17

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

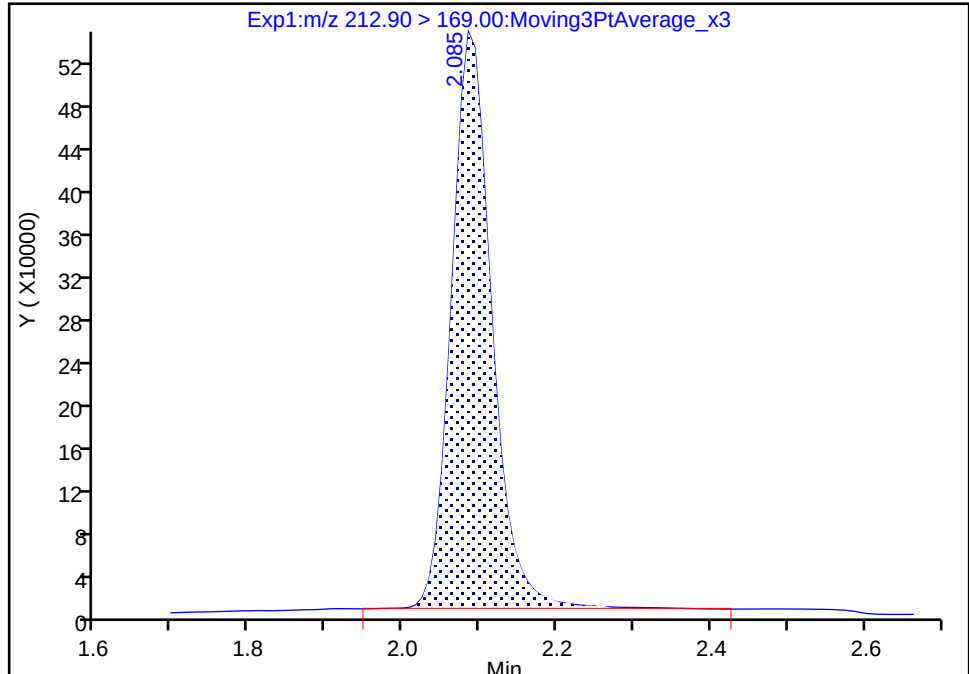
EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

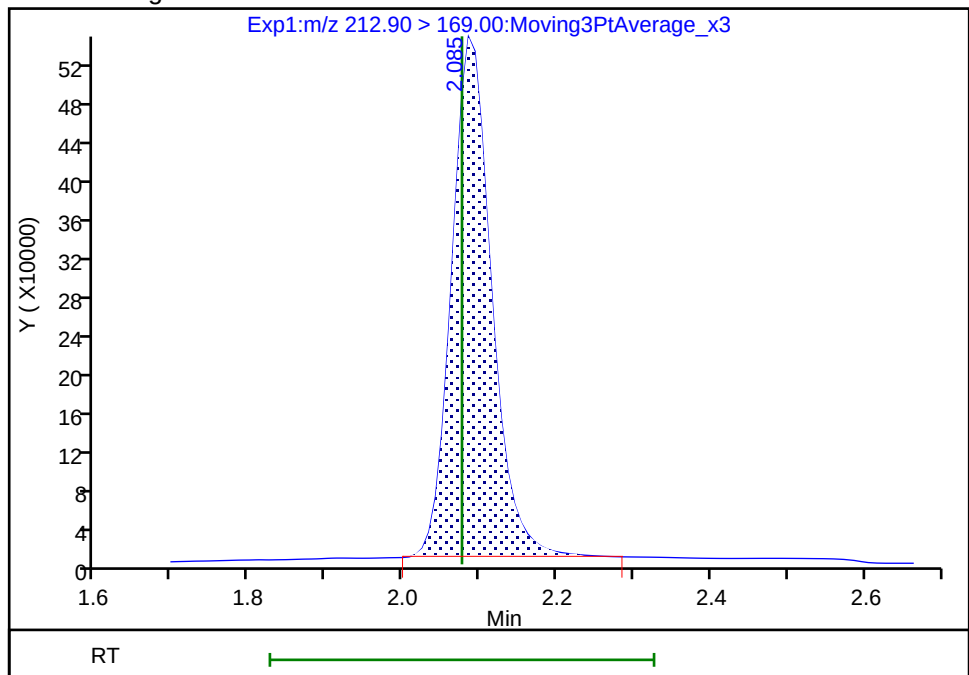
RT: 2.08
Area: 1996344
Amount: 0.905638
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1968175
Amount: 0.892860
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:07:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

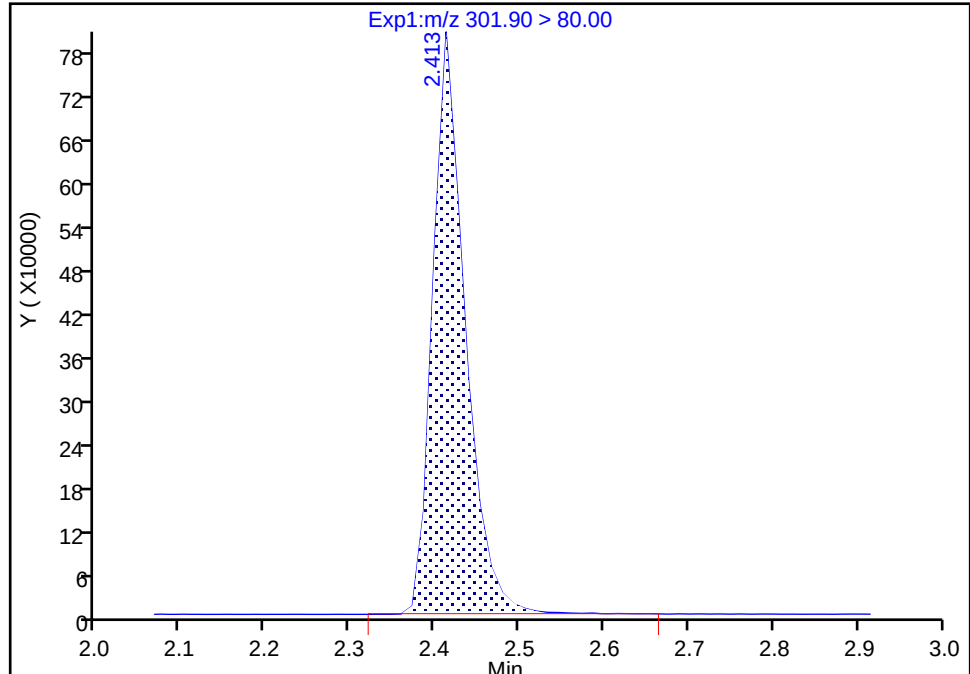
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

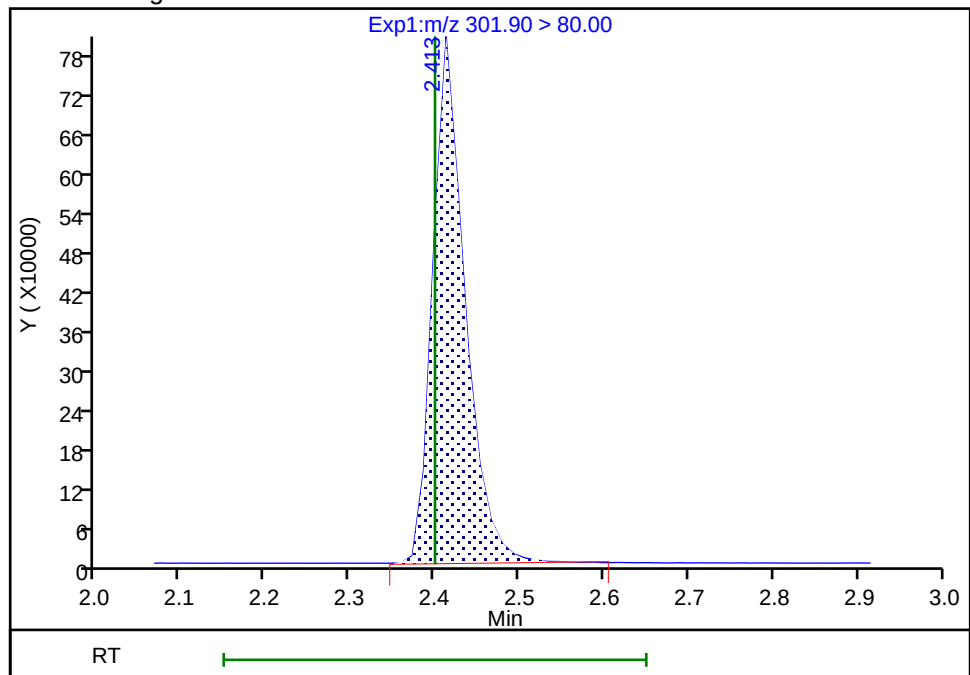
RT: 2.41
Area: 2145816
Amount: 1.110062
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 2141512
Amount: 1.107835
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:06:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

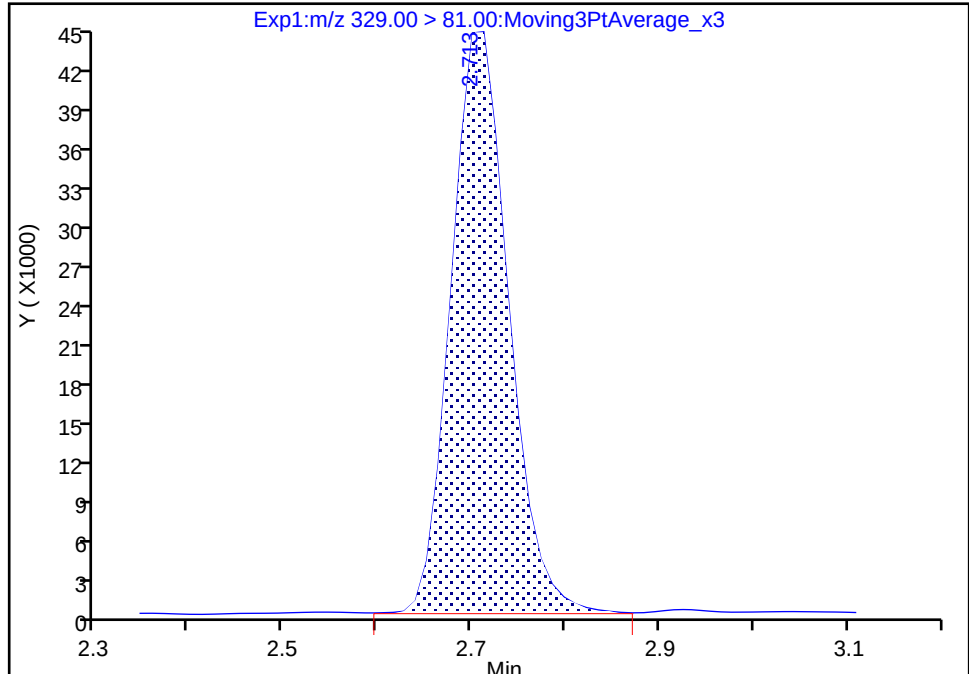
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

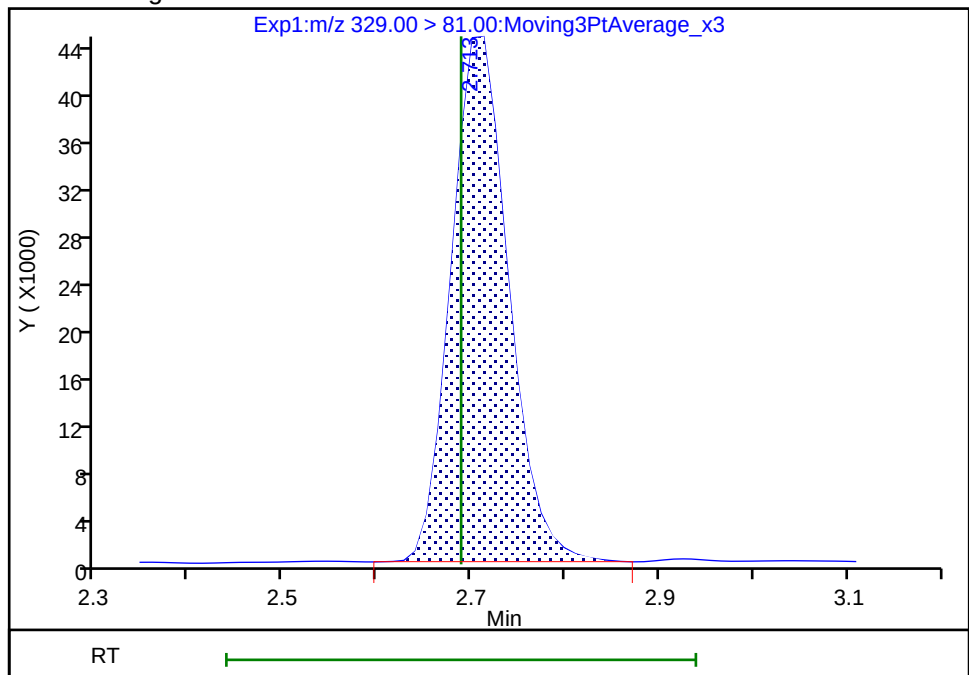
RT: 2.71
Area: 189509
Amount: 1.109477
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 189046
Amount: 1.106766
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:07:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d

Injection Date: 16-Dec-2022 14:20:22

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17

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)

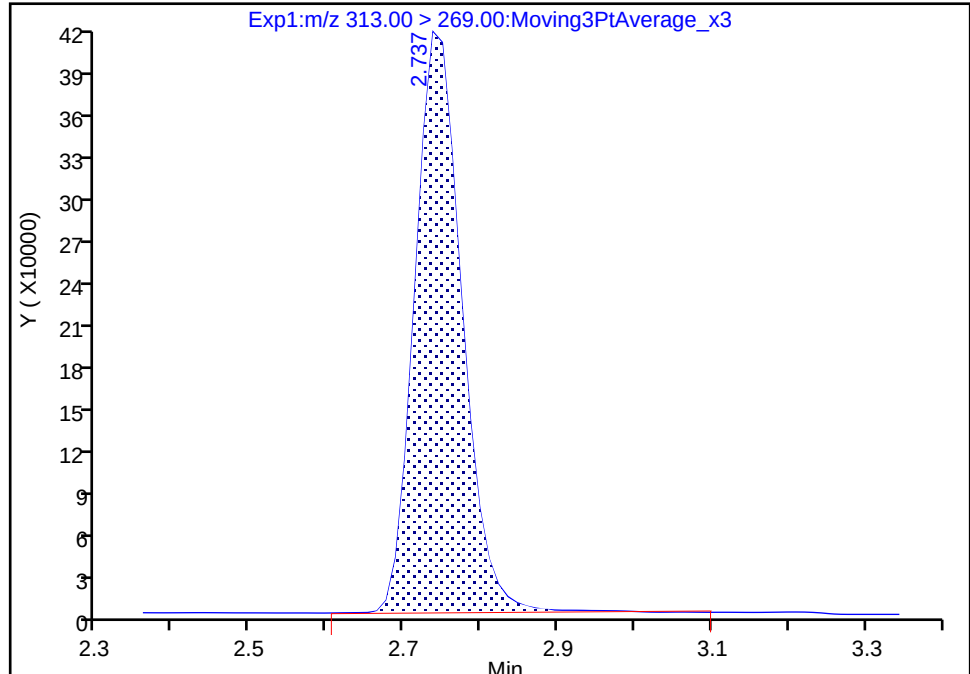
Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

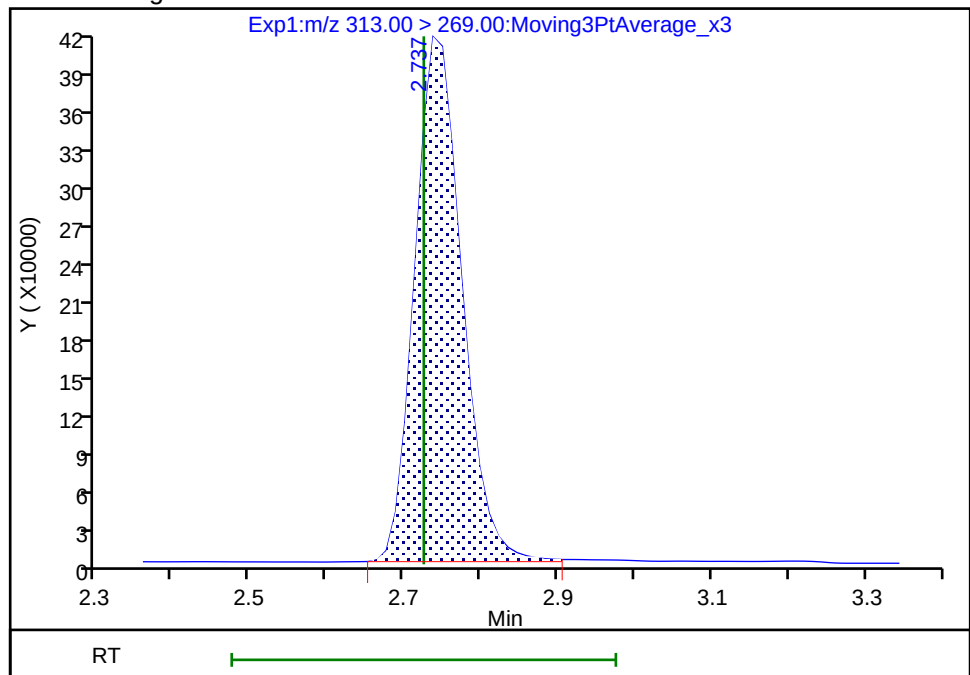
RT: 2.74
Area: 1787427
Amount: 0.927343
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1774286
Amount: 0.920525
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:07:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

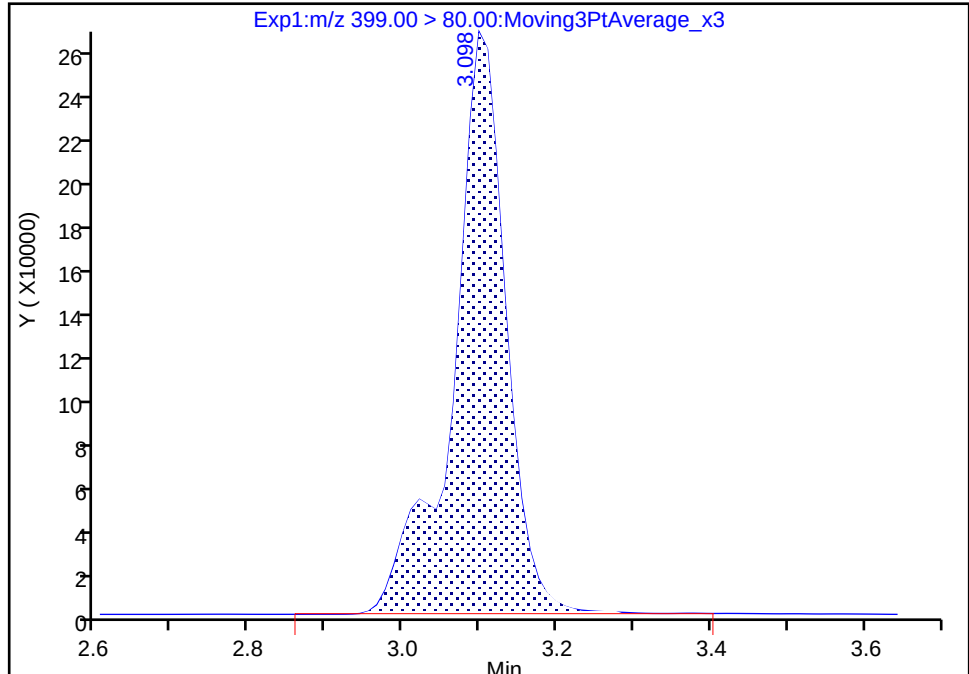
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

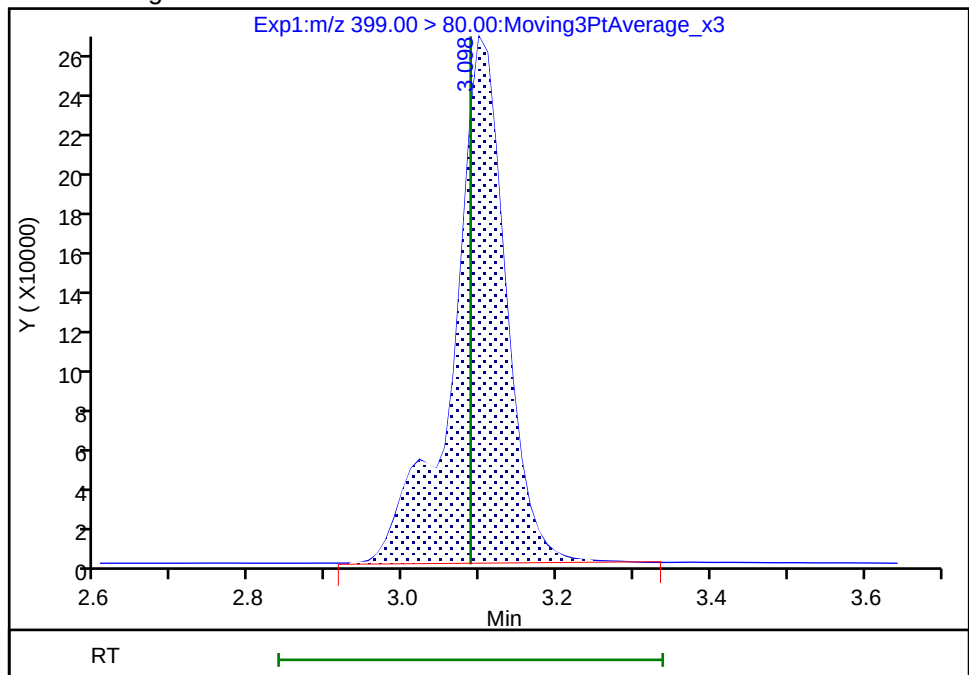
RT: 3.10
Area: 1276599
Amount: 0.825180
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1275505
Amount: 0.824473
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:07:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

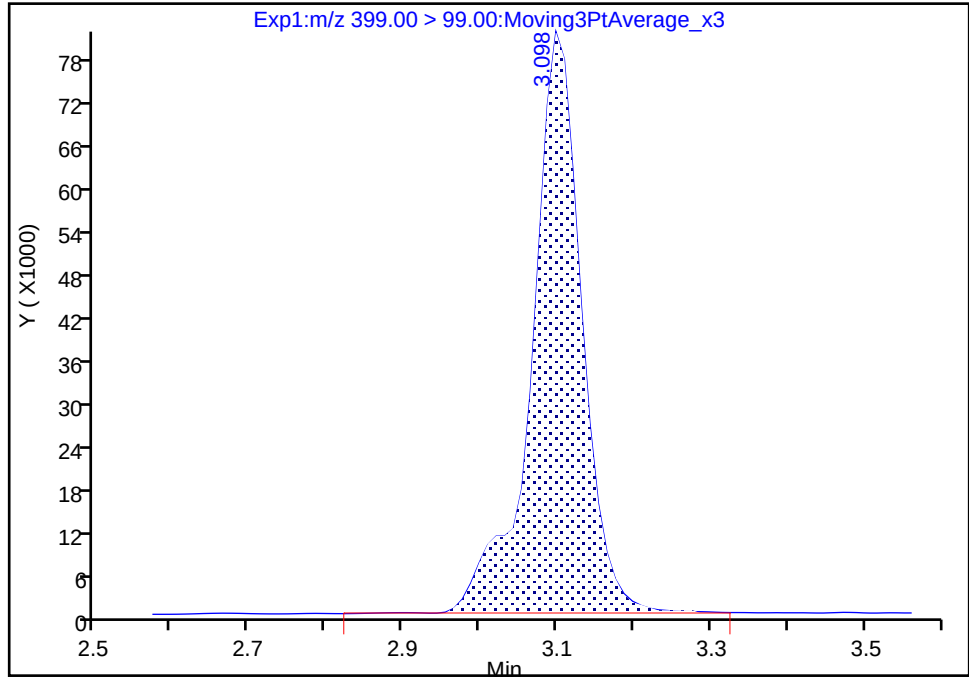
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

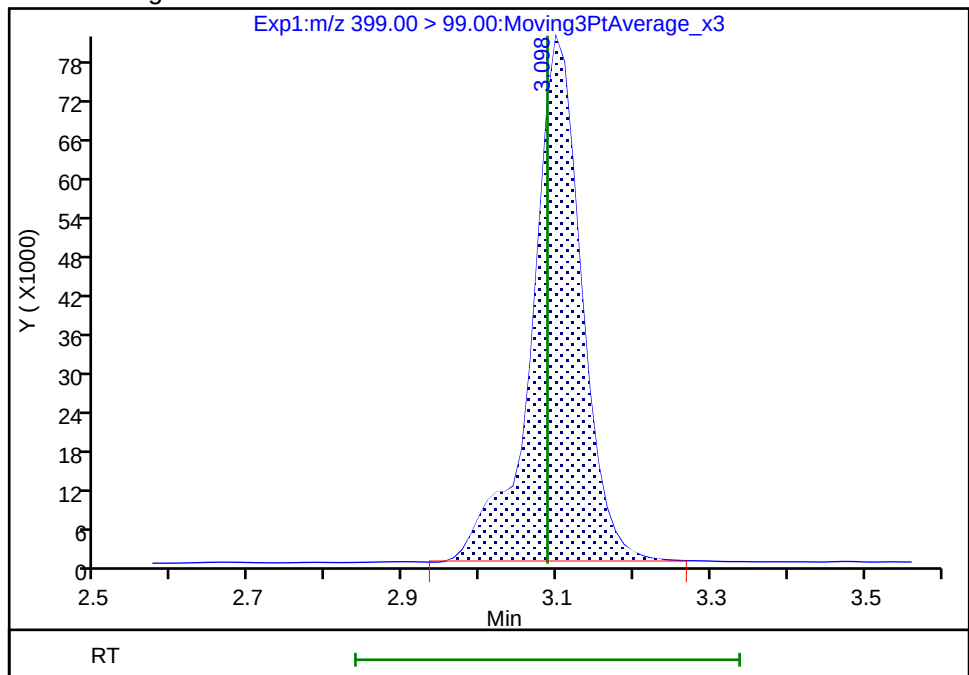
RT: 3.10
Area: 370545
Amount: 0.825180
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 367847
Amount: 0.824473
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:07:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

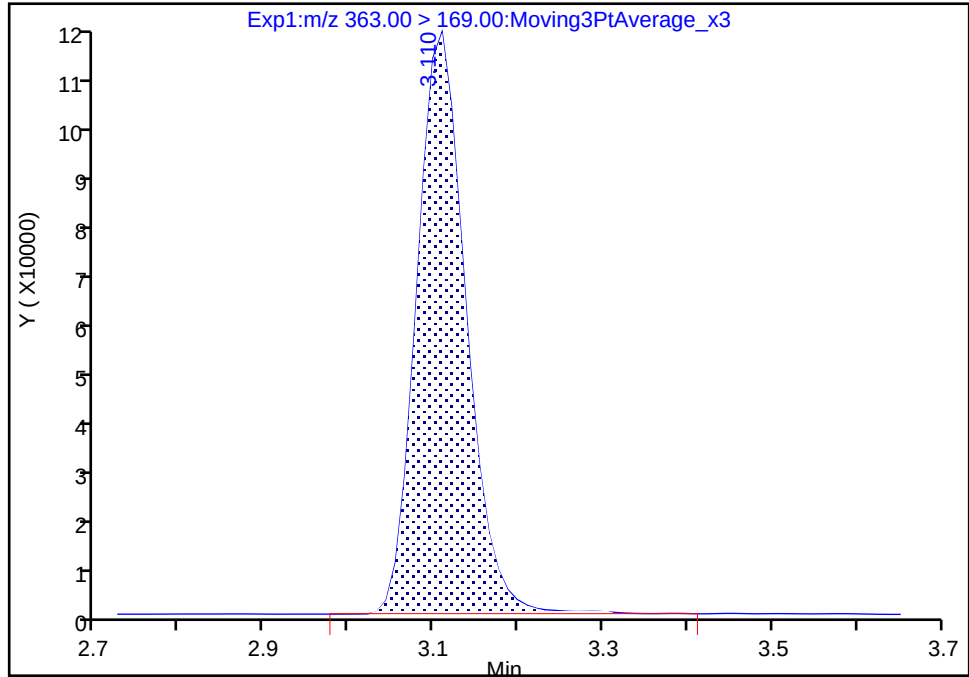
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

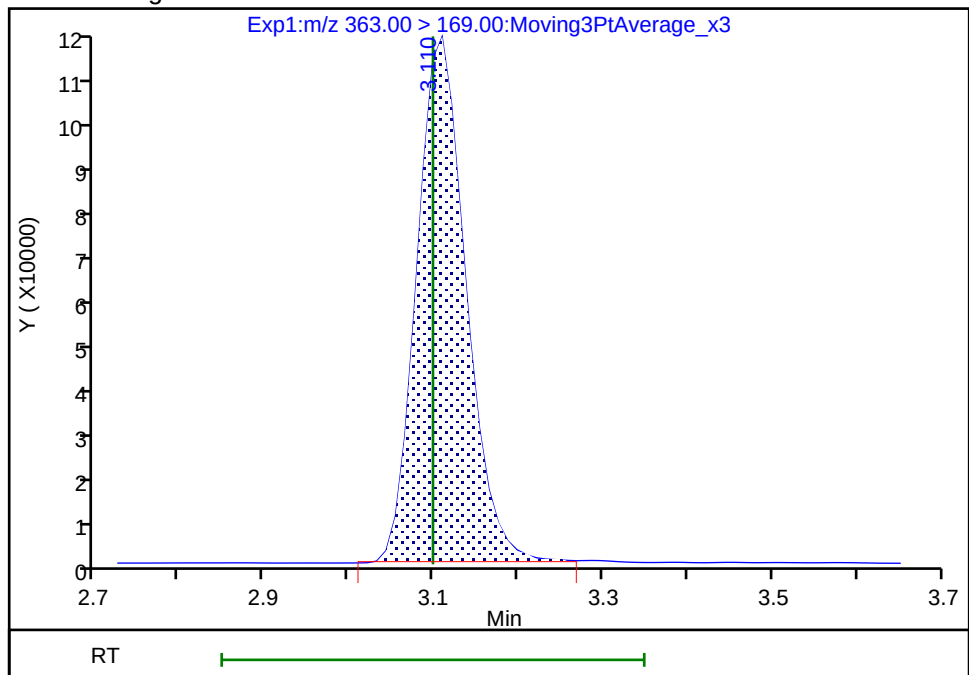
RT: 3.11
Area: 474496
Amount: 0.942924
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 472182
Amount: 0.942140
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

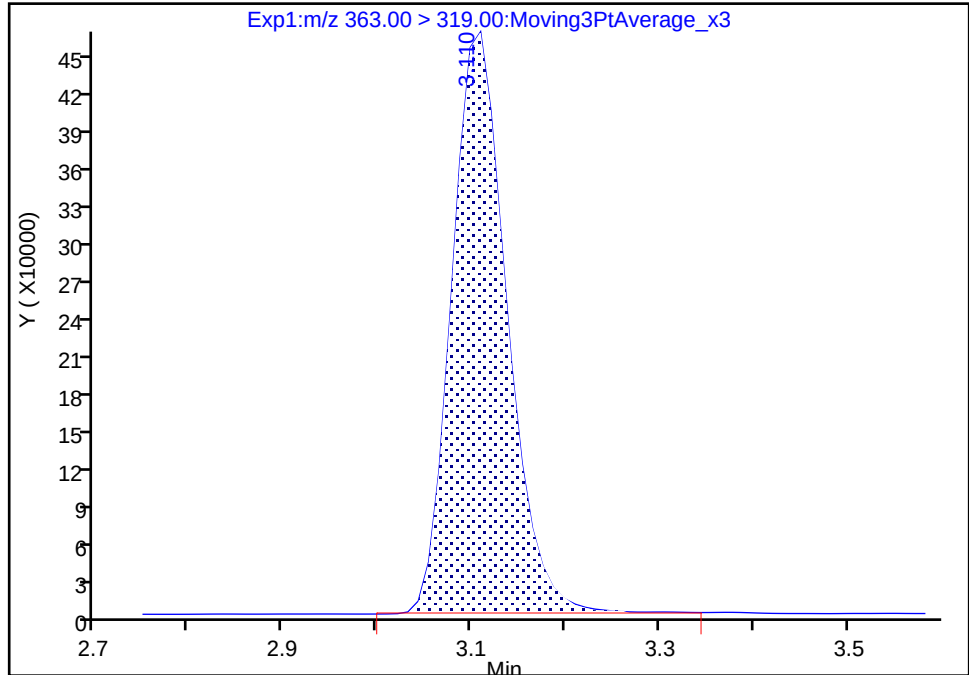
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

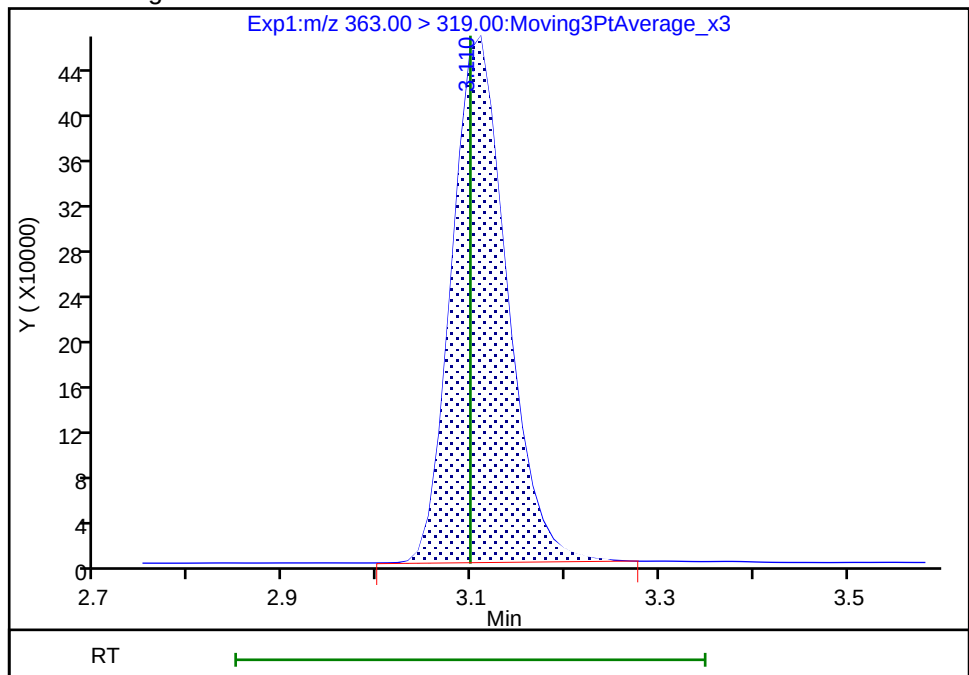
RT: 3.11
Area: 1876246
Amount: 0.942924
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 1874686
Amount: 0.942140
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

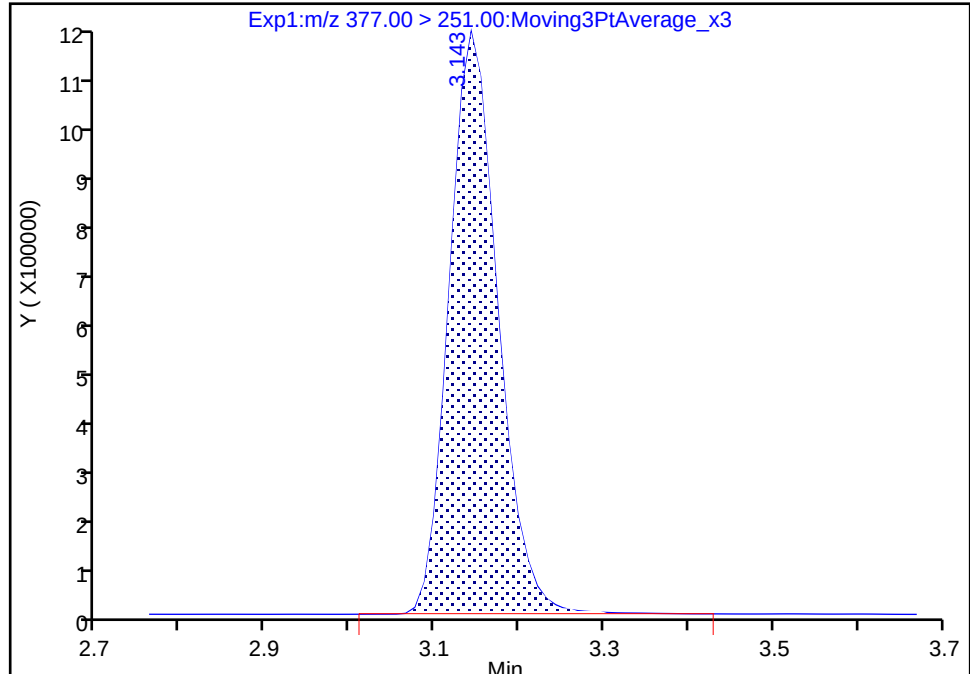
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

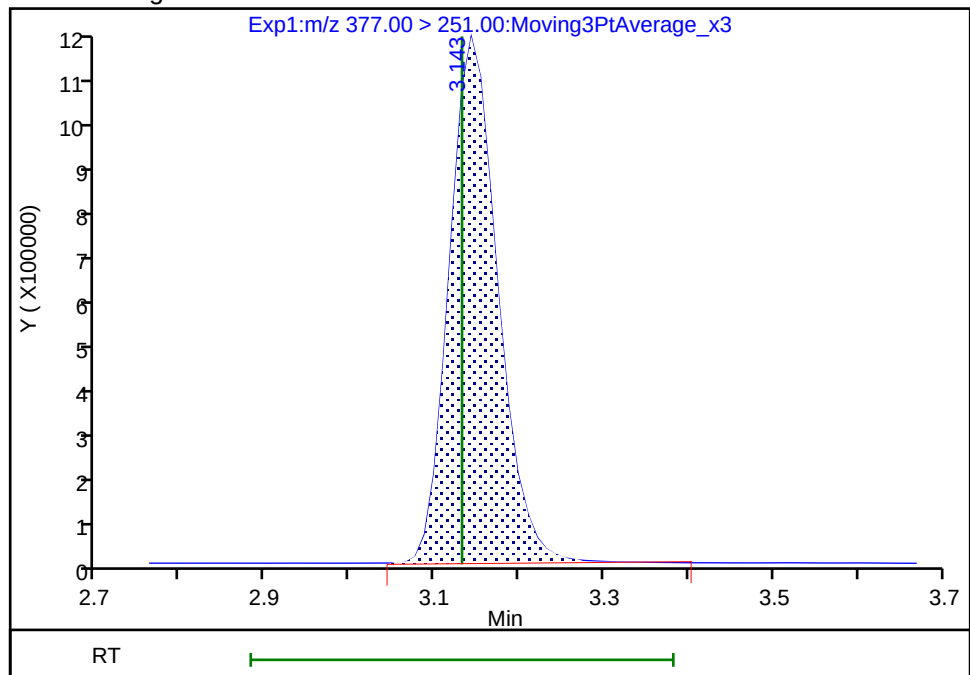
RT: 3.14
Area: 4435989
Amount: 0.883099
Amount Units: ng/ml

Processing Integration Results



RT: 3.14
Area: 4432973
Amount: 0.882499
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

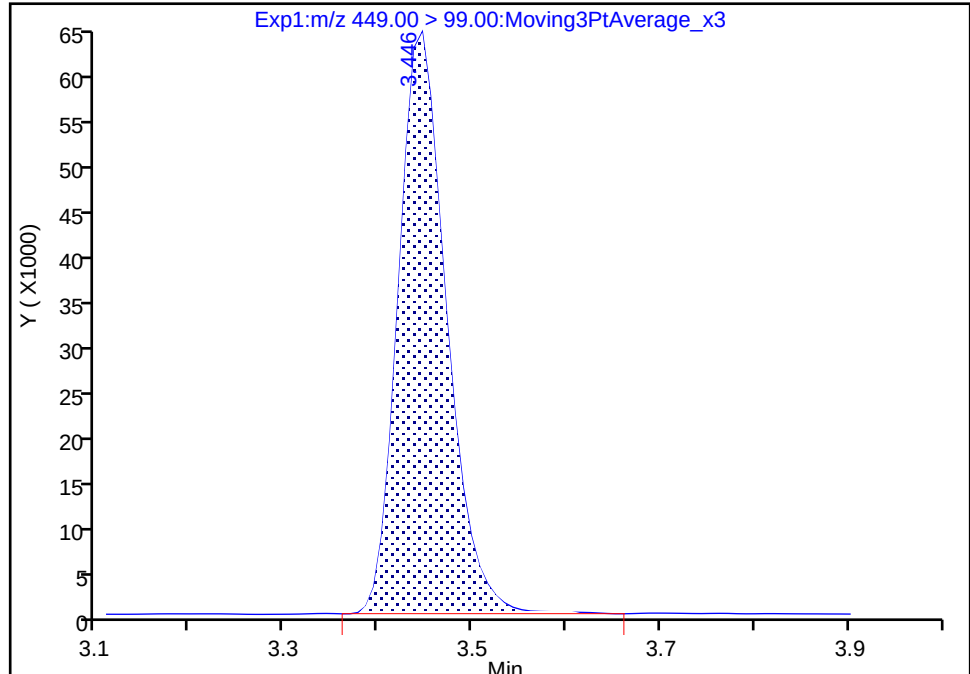
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

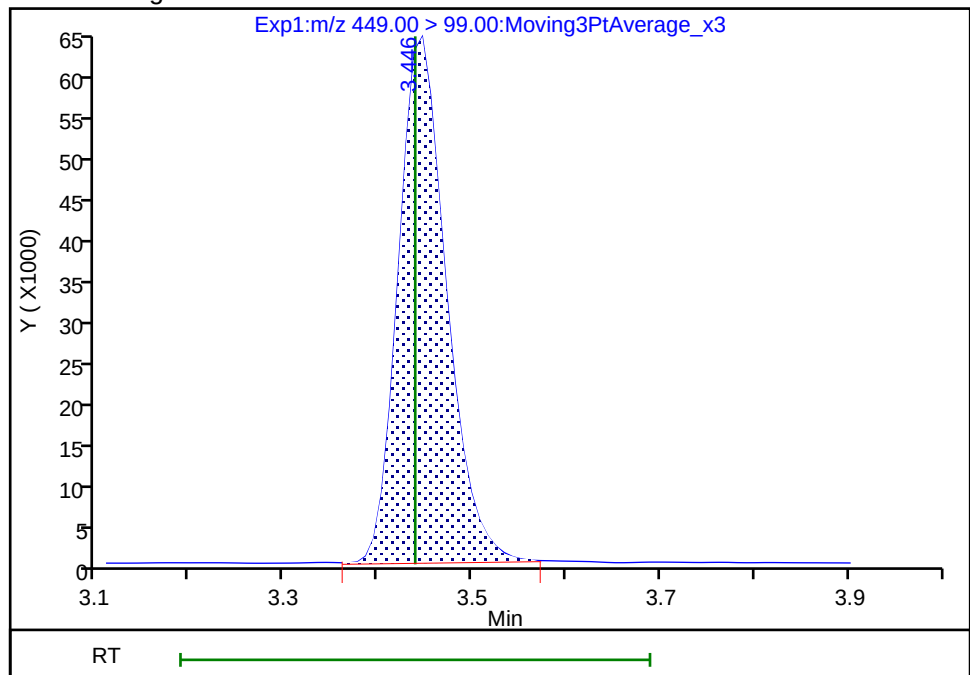
RT: 3.45
Area: 229275
Amount: 0.877086
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 228526
Amount: 0.874842
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

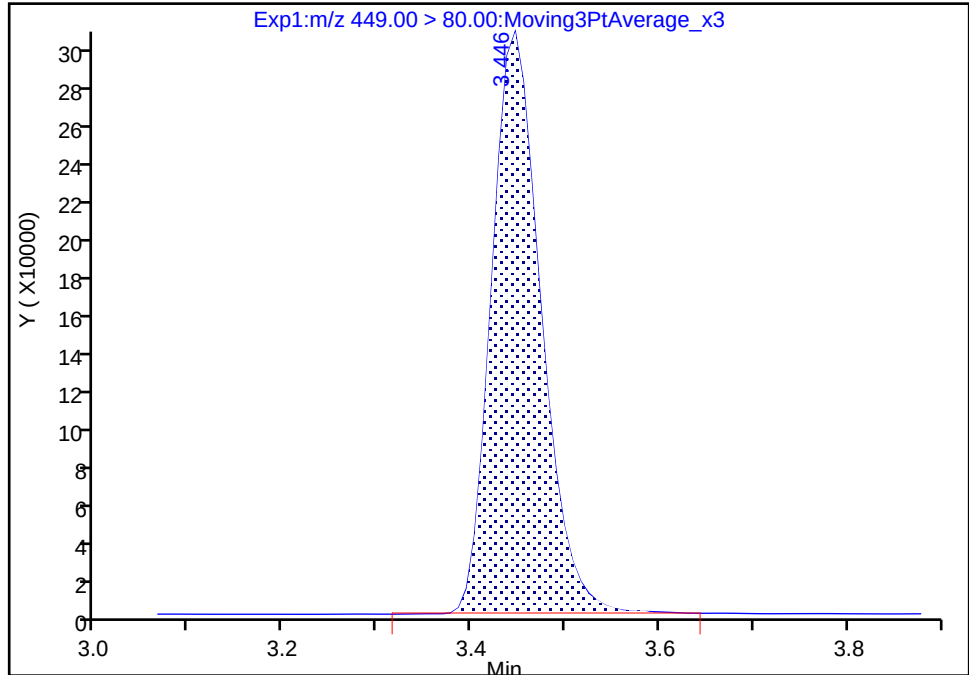
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

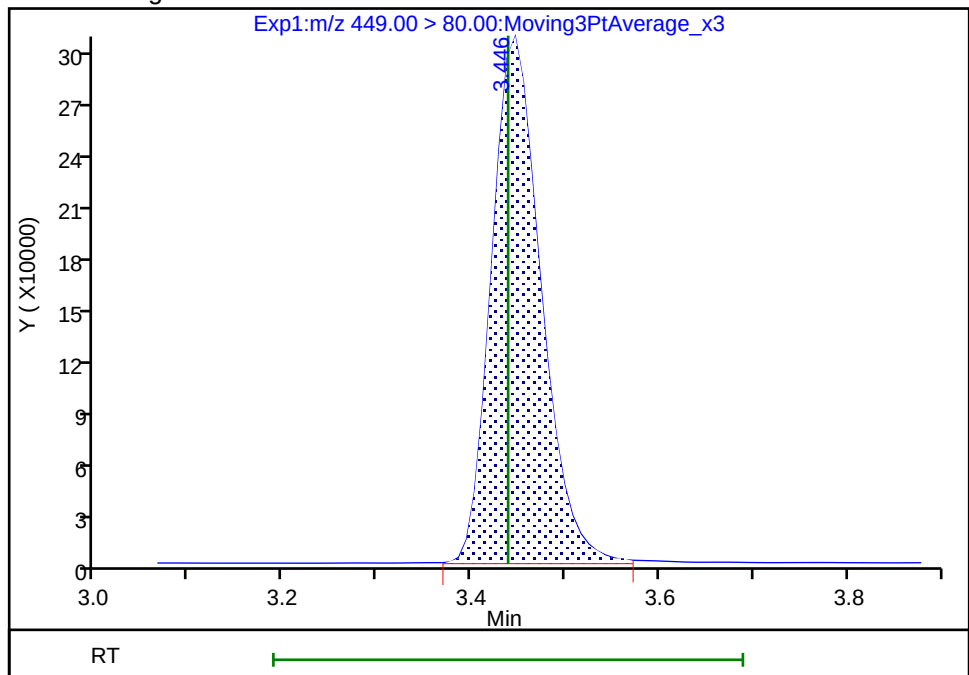
RT: 3.45
Area: 1117406
Amount: 0.877086
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1114548
Amount: 0.874842
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

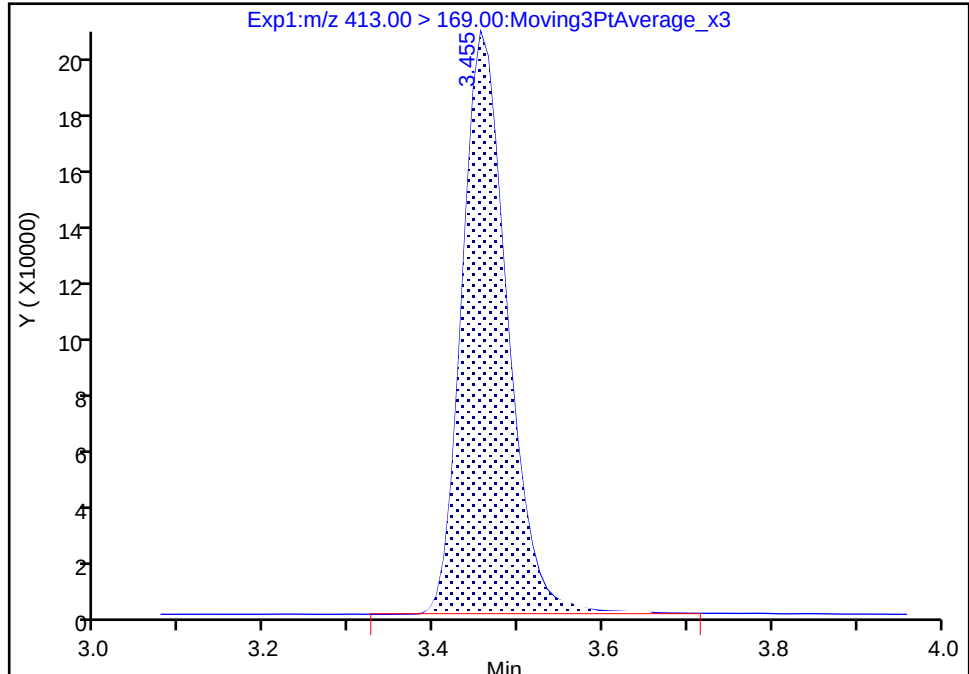
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

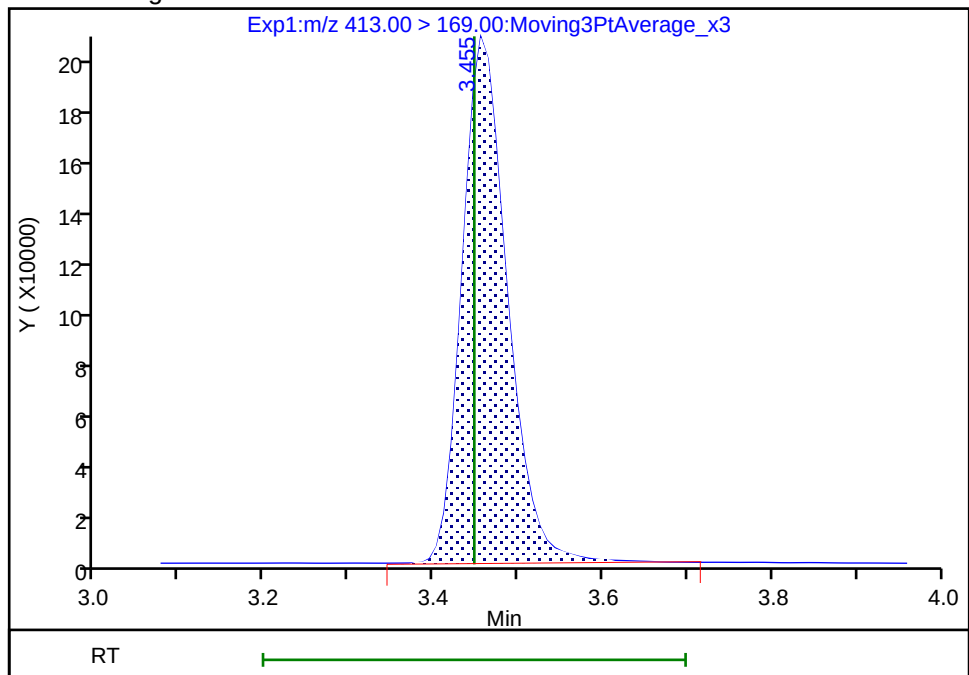
RT: 3.46
Area: 746083
Amount: 0.892315
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 746059
Amount: 0.891147
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

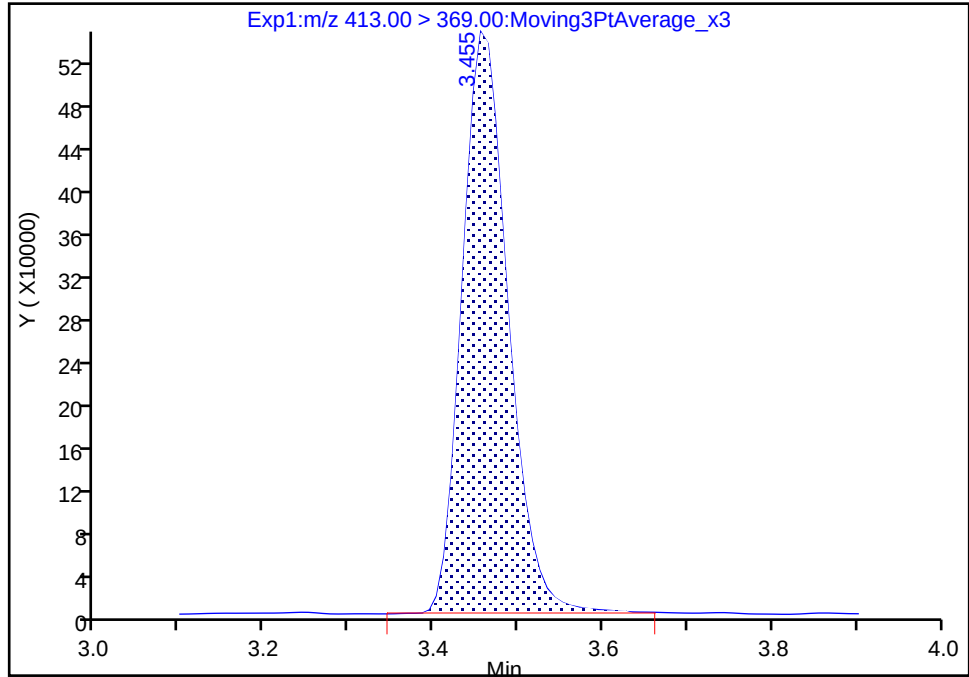
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

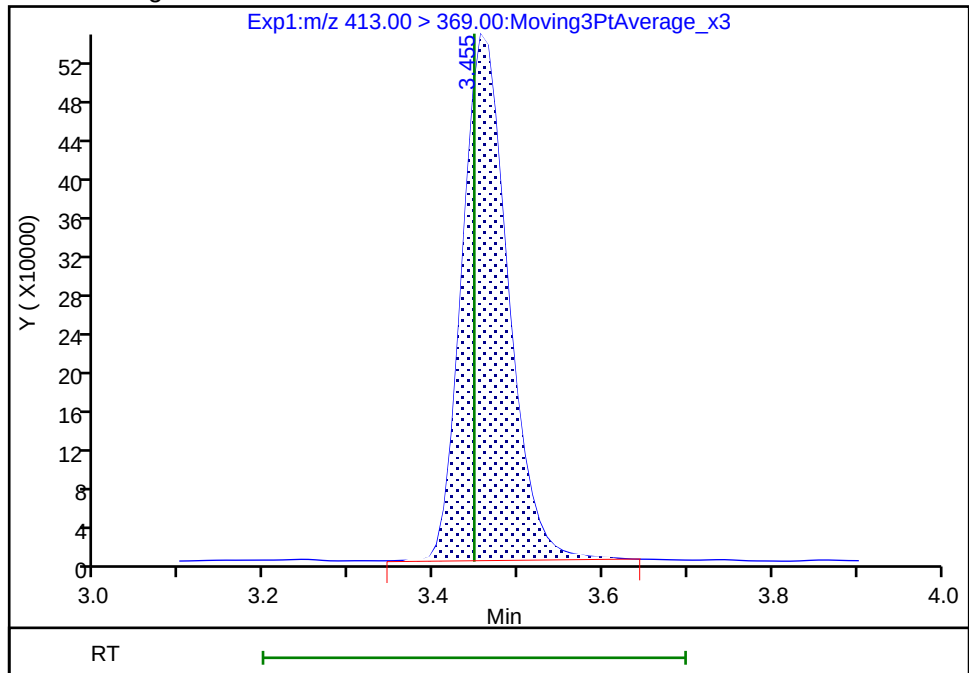
RT: 3.46
Area: 2032570
Amount: 0.892315
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 2029910
Amount: 0.891147
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:08:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

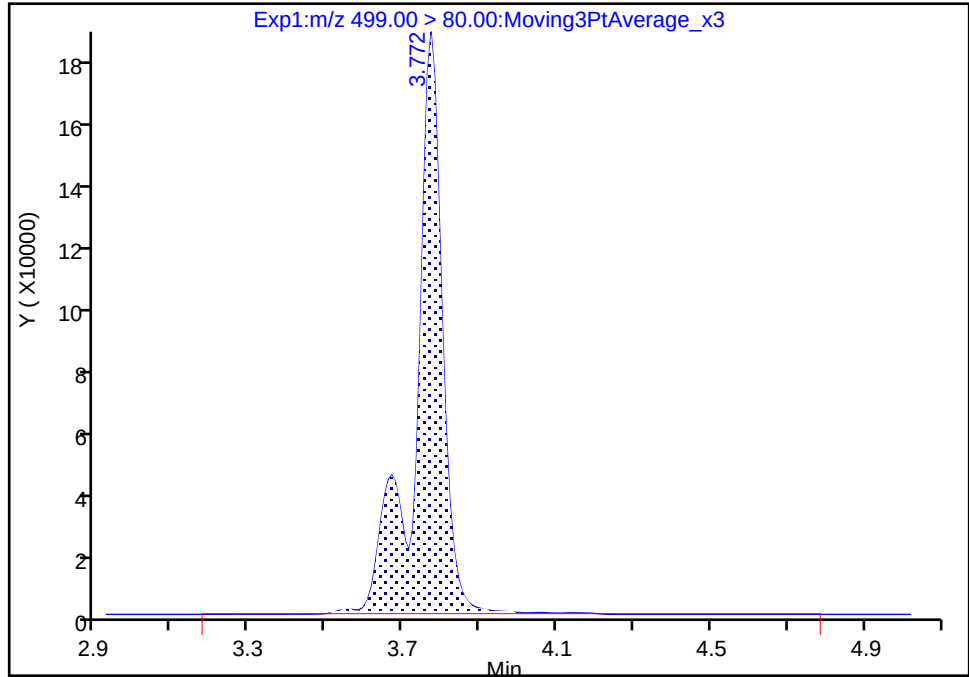
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

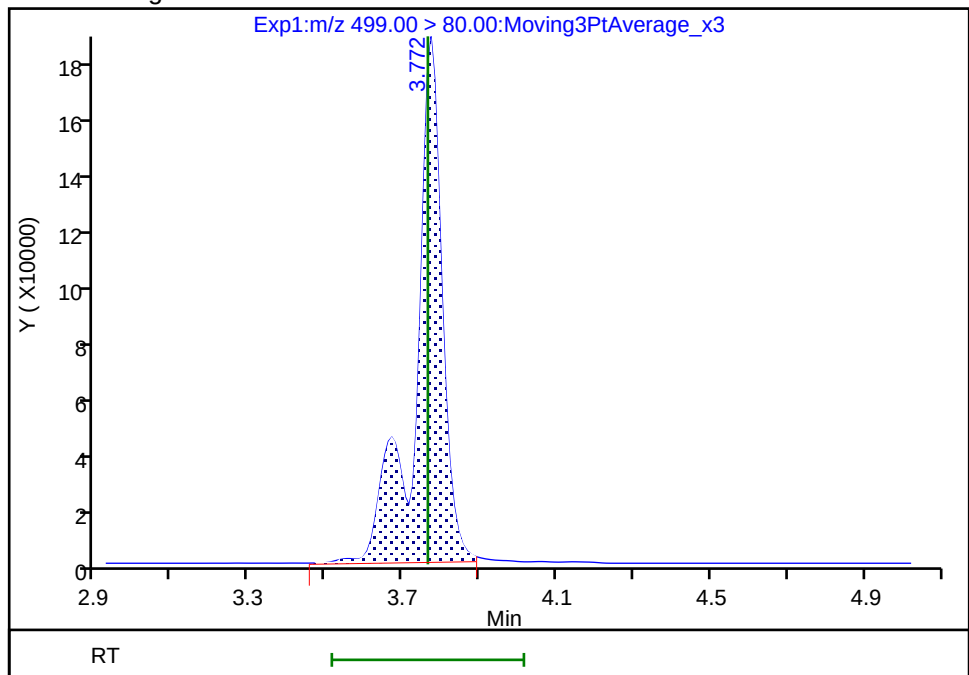
RT: 3.77
Area: 917915
Amount: 0.827483
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 897925
Amount: 0.809462
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:09:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

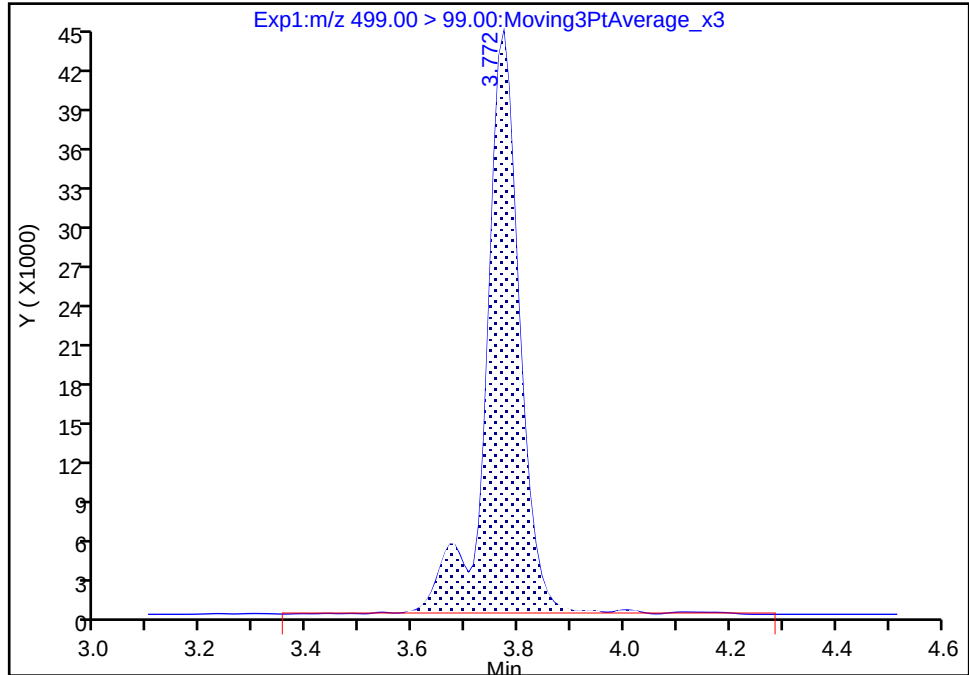
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

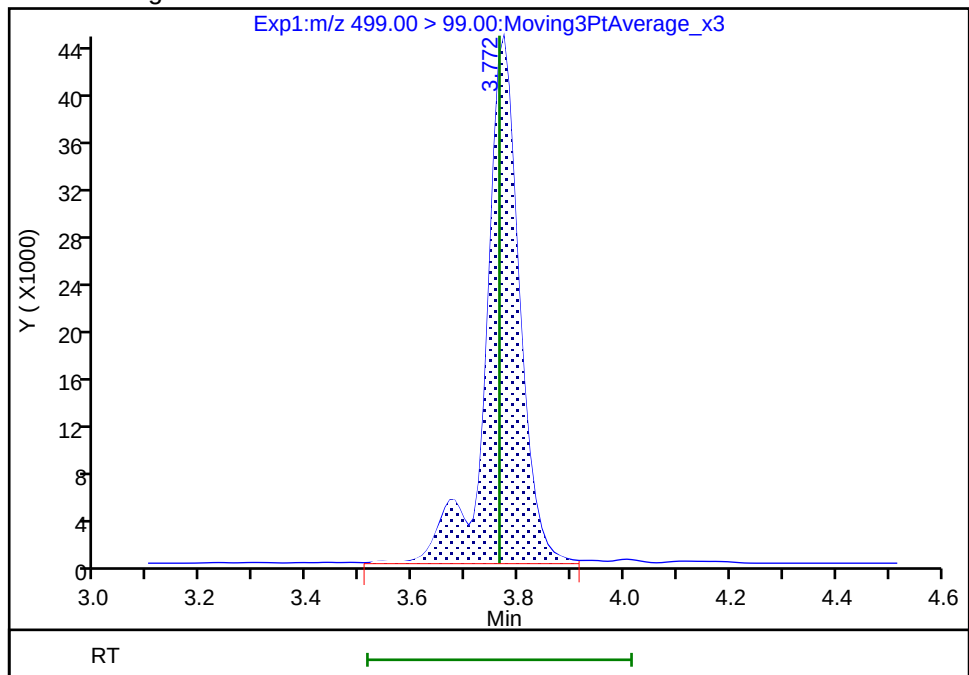
RT: 3.77
Area: 199387
Amount: 0.827483
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 195381
Amount: 0.809462
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:09:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

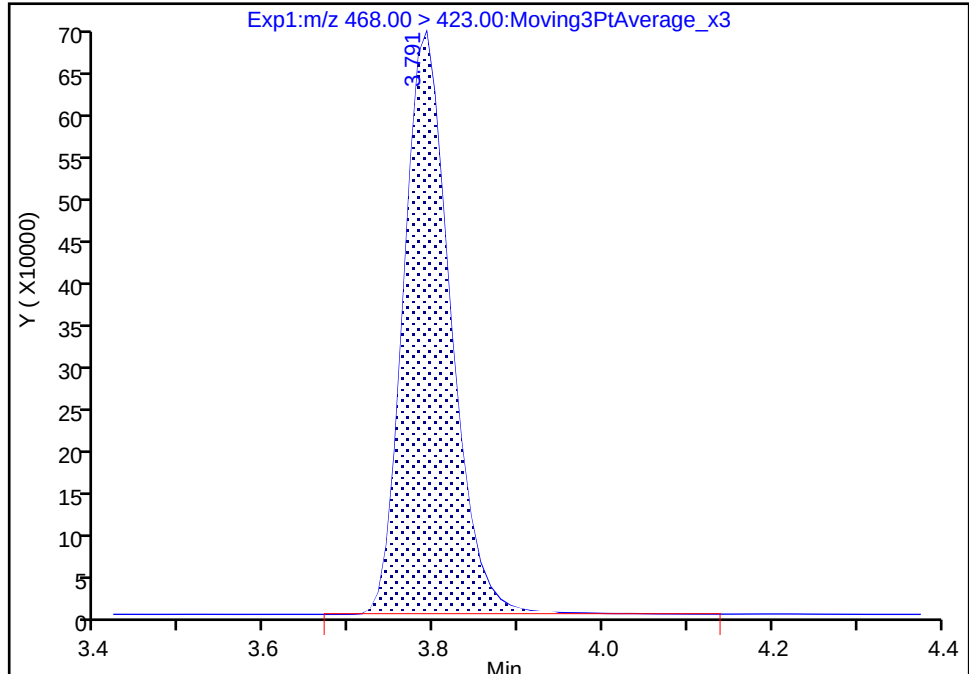
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

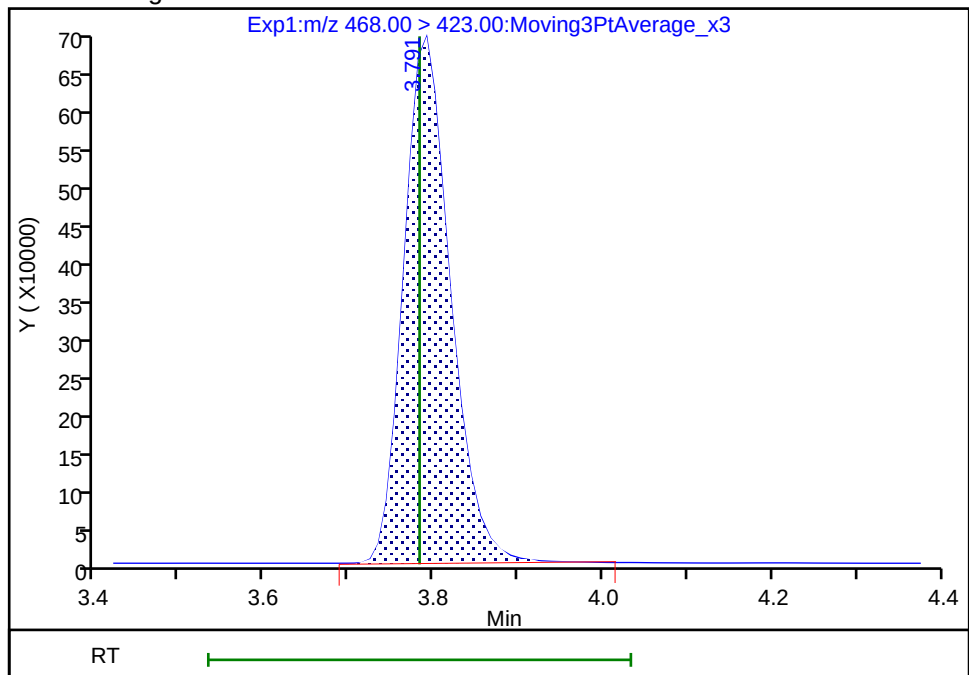
RT: 3.79
Area: 2695094
Amount: 1.286547
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 2682240
Amount: 1.280411
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:07:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

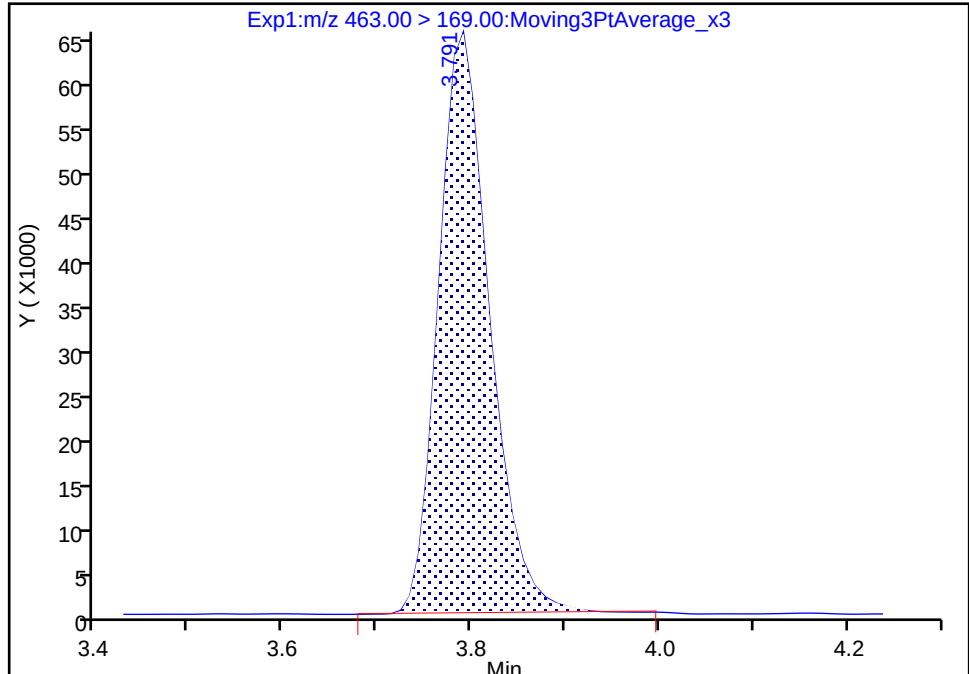
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

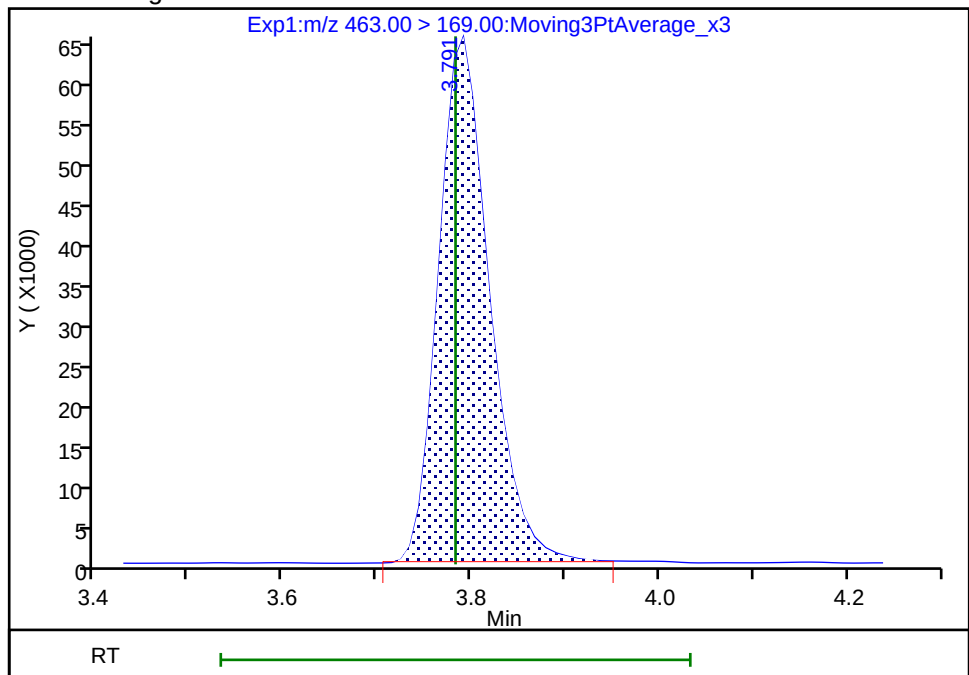
RT: 3.79
Area: 247630
Amount: 0.914924
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 246993
Amount: 0.914924
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:09:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

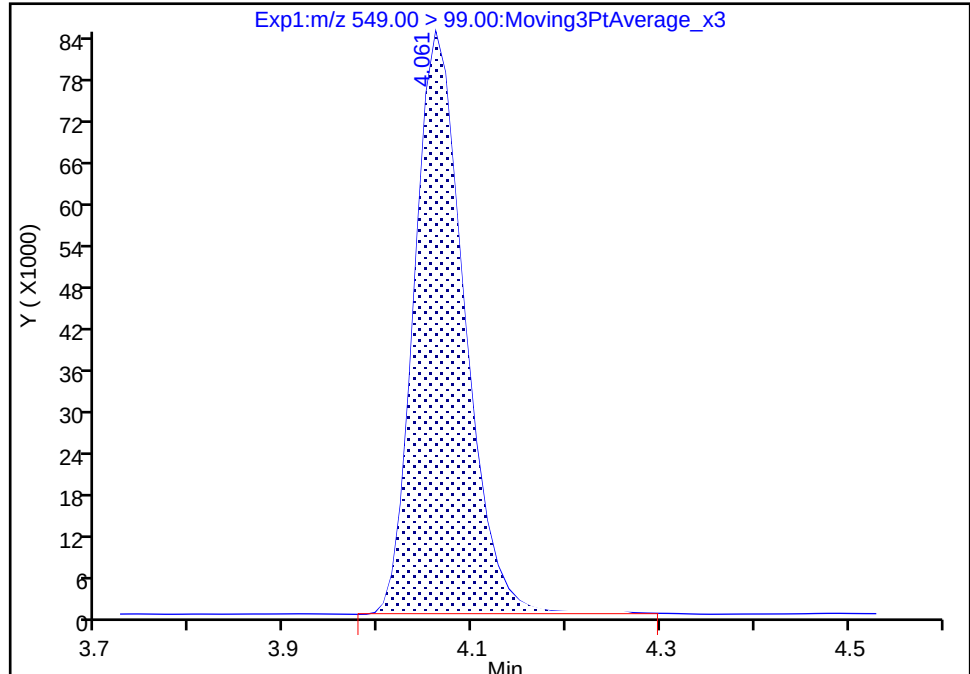
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

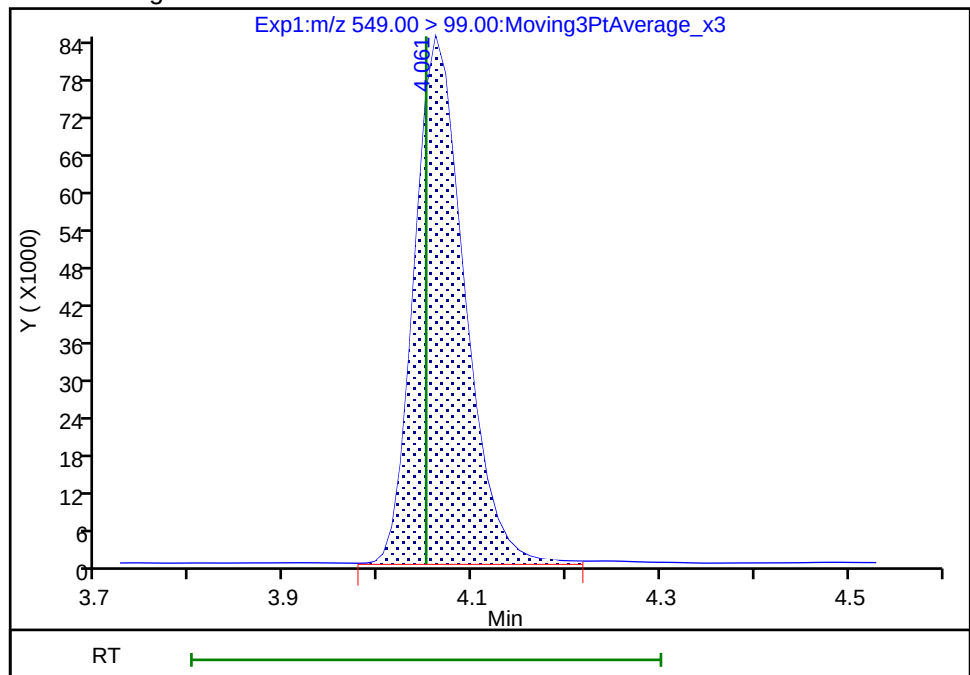
RT: 4.06
Area: 312050
Amount: 0.901486
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 312069
Amount: 0.901486
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:09:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

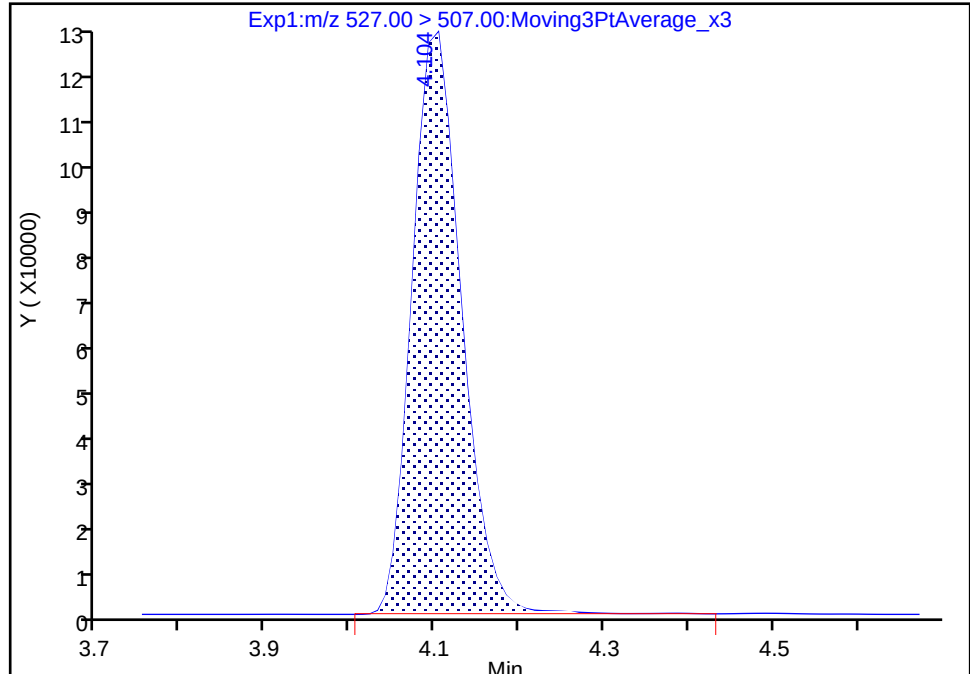
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

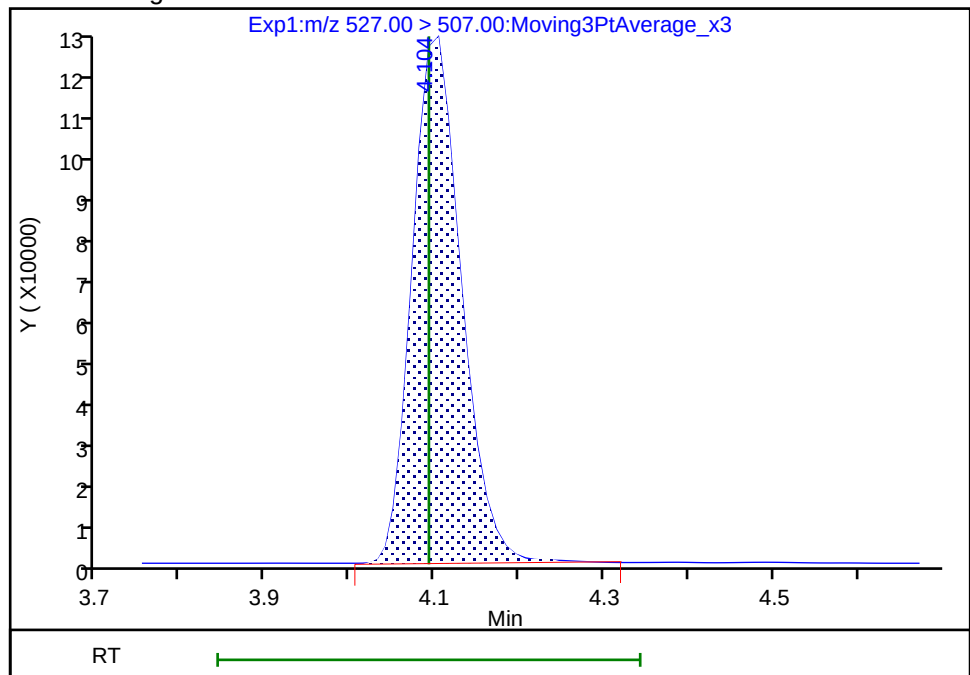
RT: 4.10
Area: 491604
Amount: 0.978766
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 491053
Amount: 0.977669
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:09:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d

Injection Date: 16-Dec-2022 14:20:22

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

17

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)

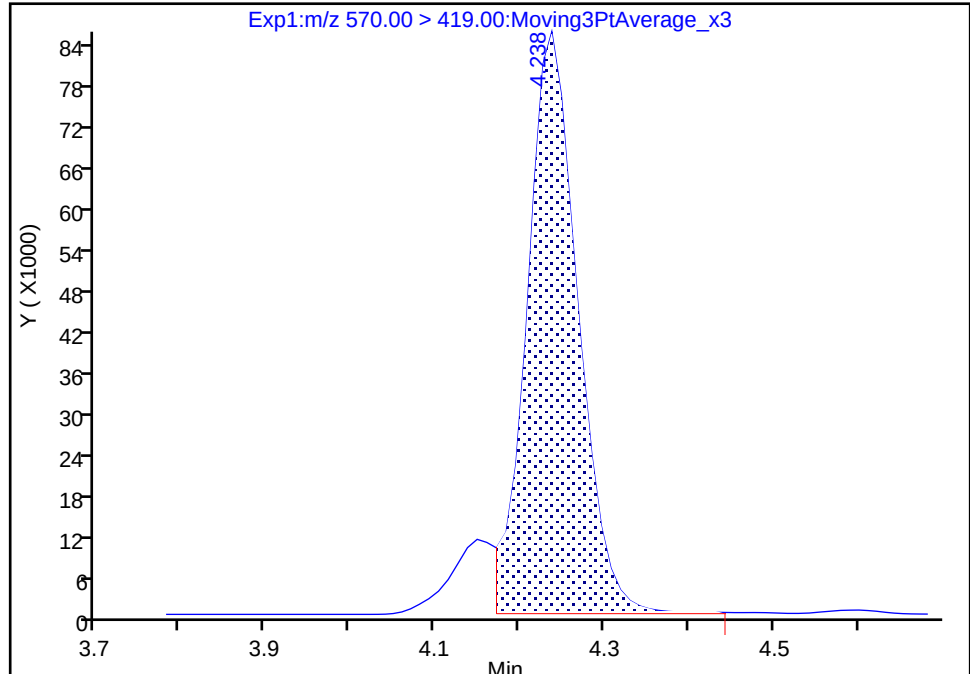
Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

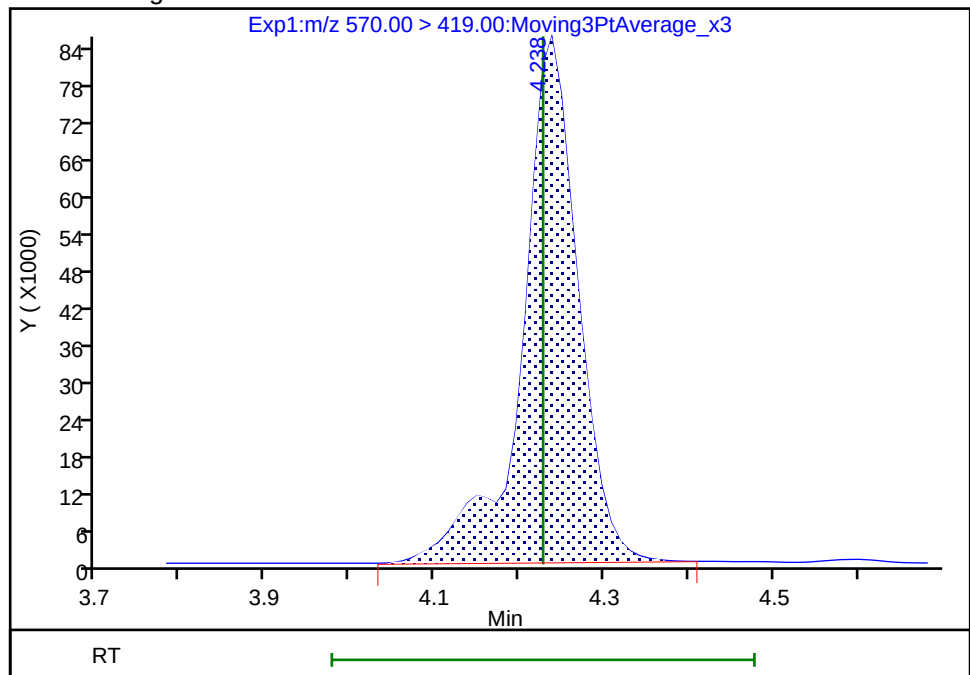
RT: 4.24
Area: 353609
Amount: 0.863245
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 391529
Amount: 0.957063
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:10:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

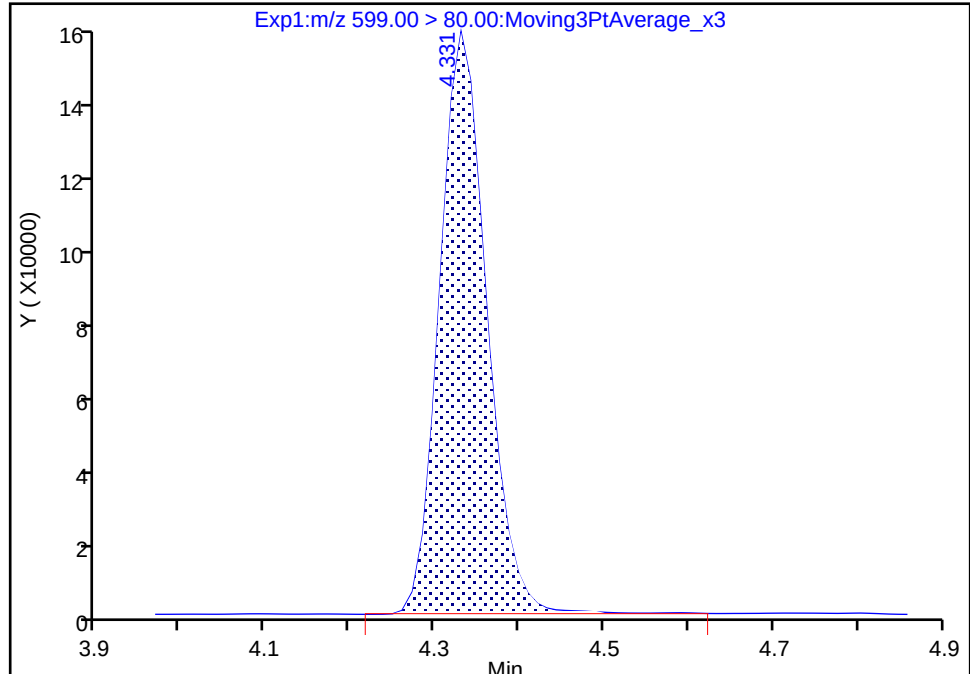
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

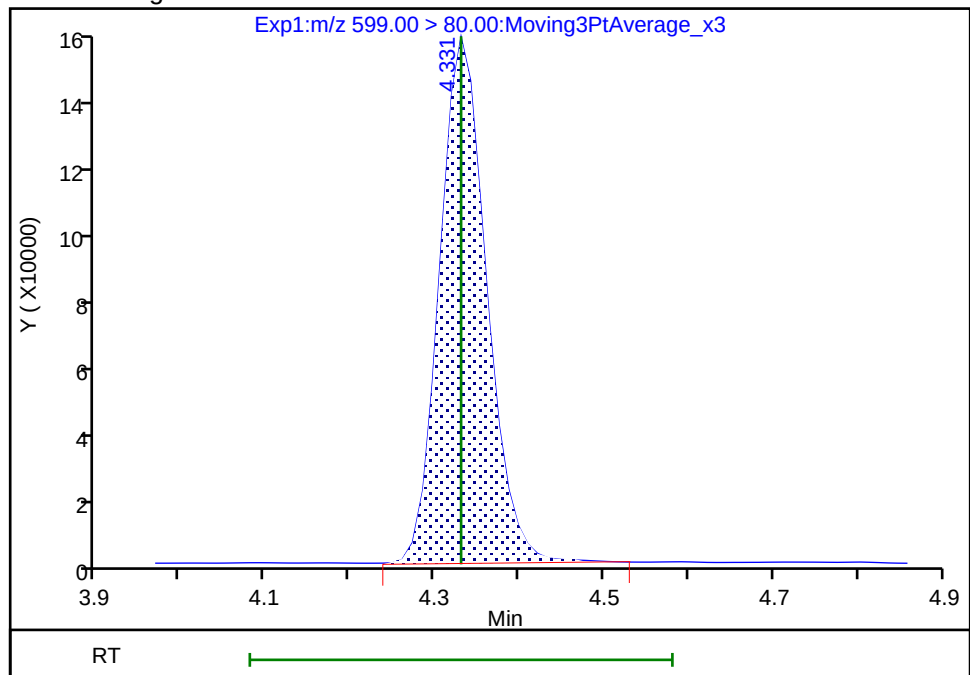
RT: 4.33
Area: 593672
Amount: 0.898023
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 591410
Amount: 0.894601
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:10:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

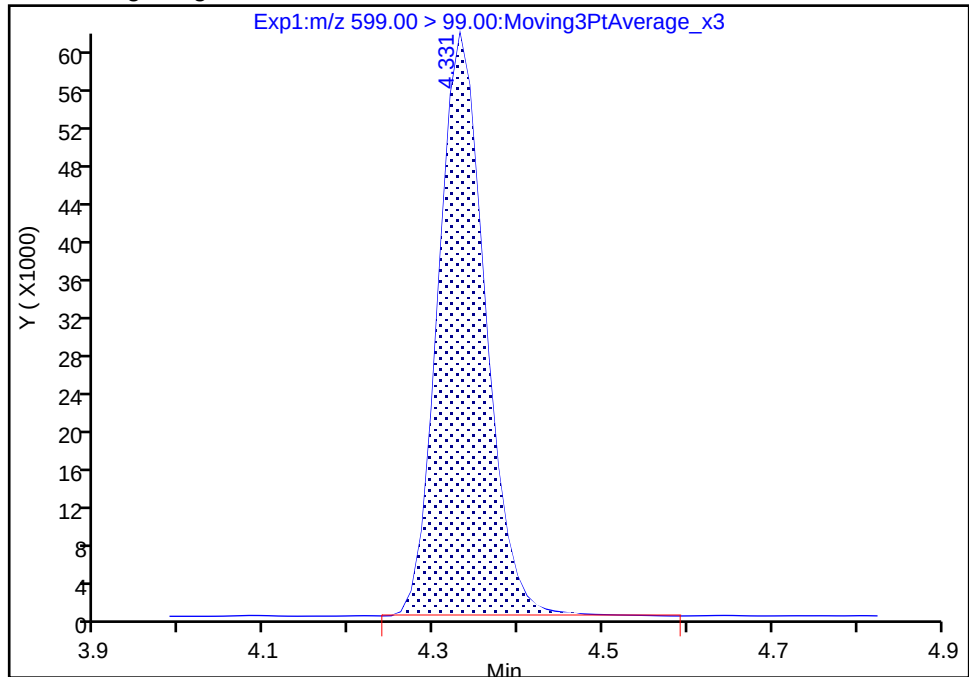
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

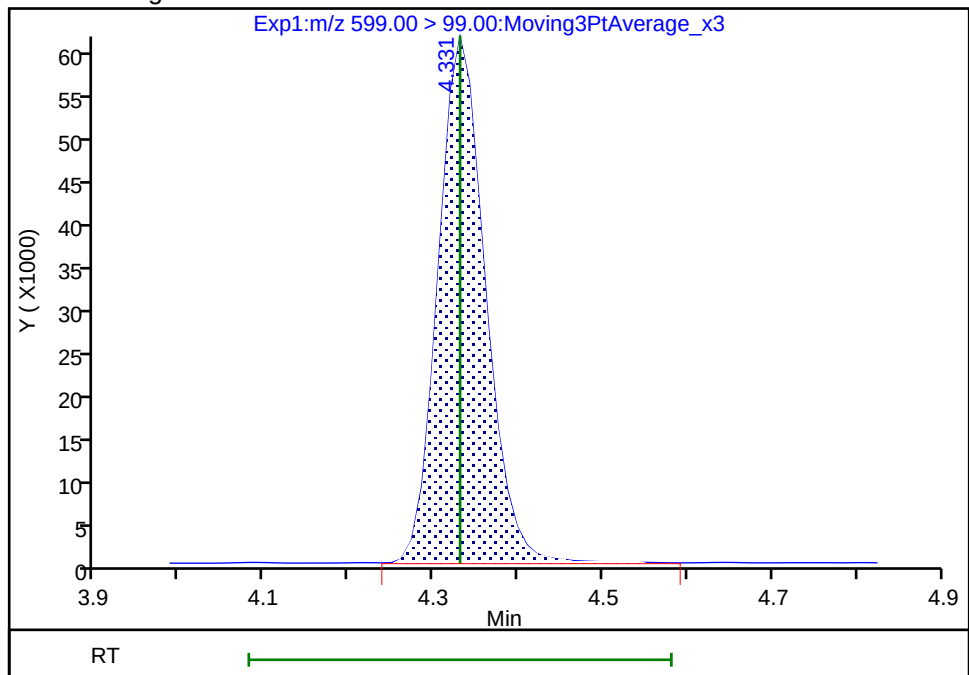
RT: 4.33
Area: 238568
Amount: 0.898023
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 237775
Amount: 0.894601
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:10:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d

Injection Date: 16-Dec-2022 14:20:22

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17

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)

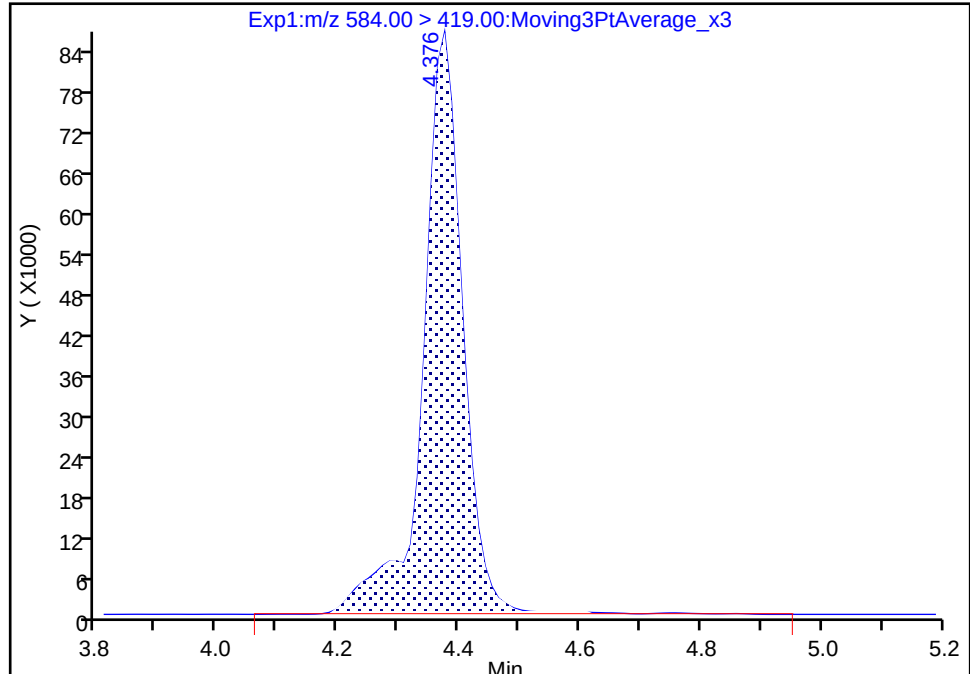
Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

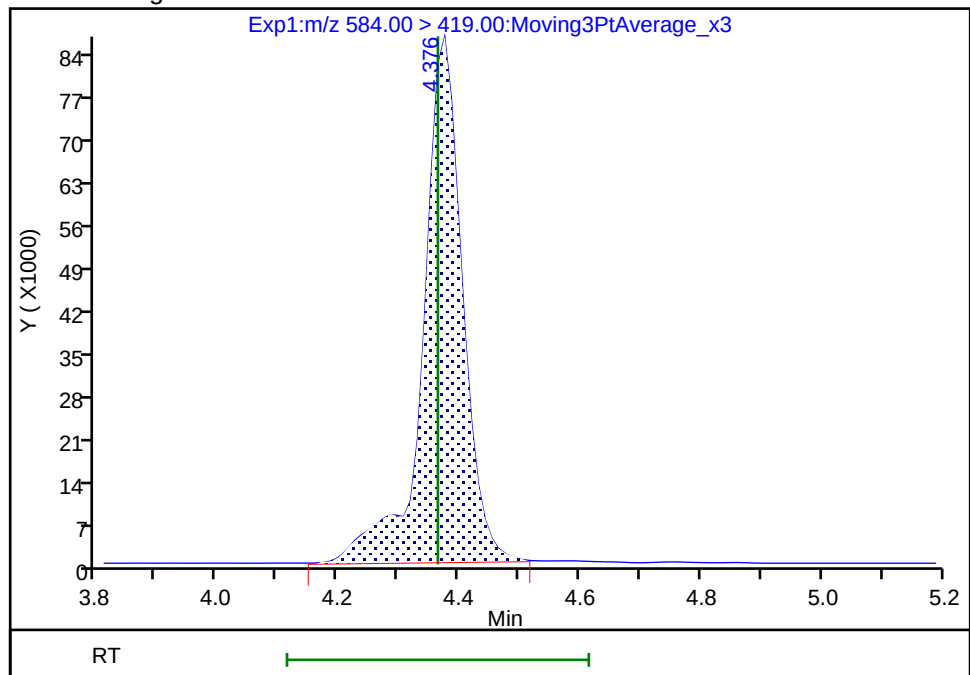
RT: 4.38
Area: 401718
Amount: 0.907931
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 391688
Amount: 0.885262
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 12:40:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

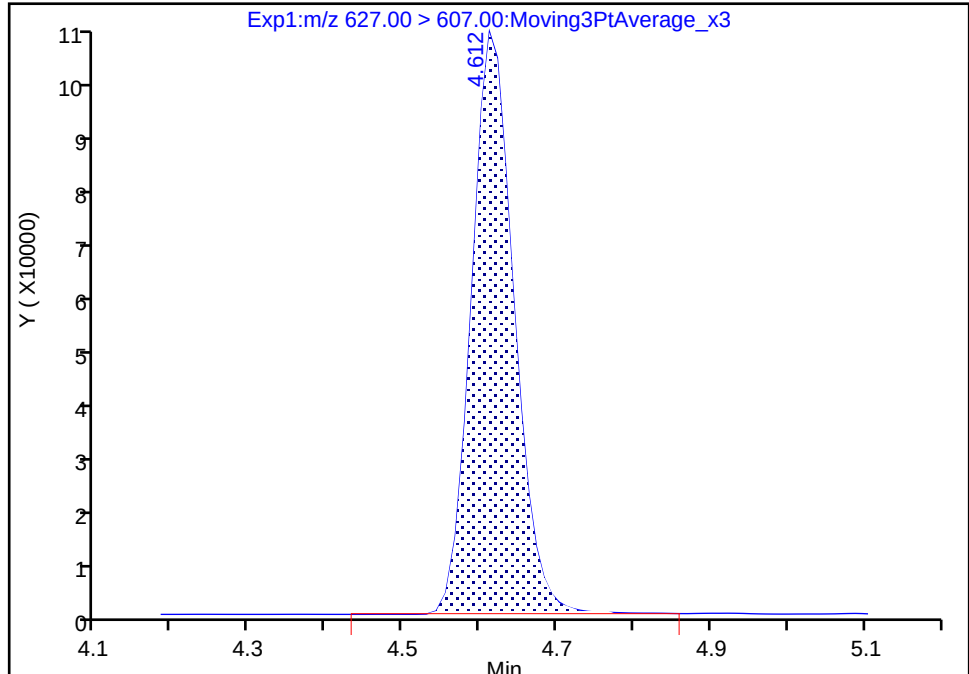
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

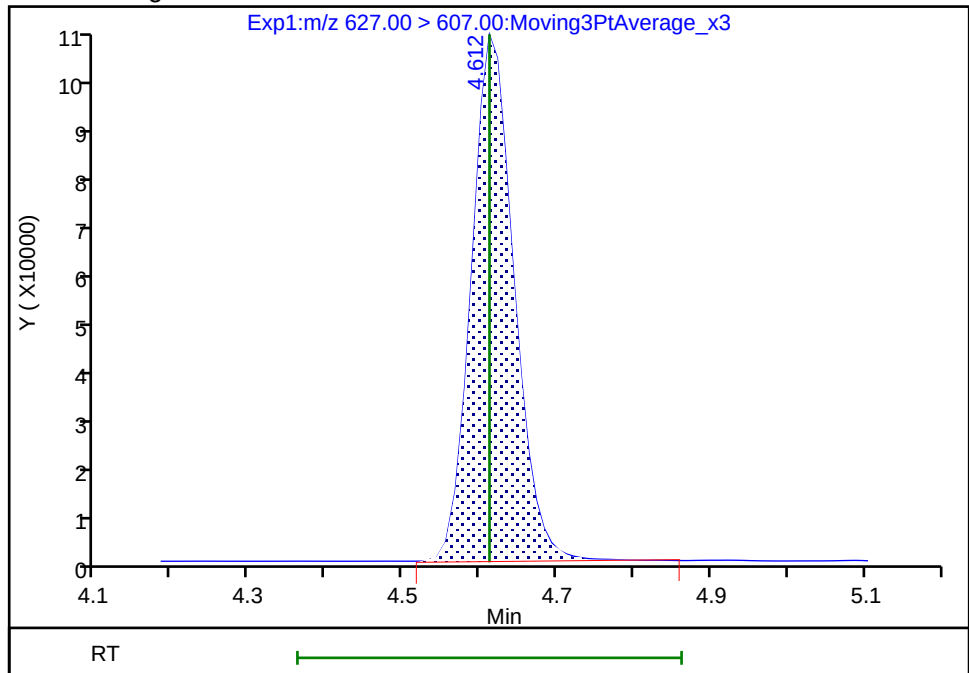
RT: 4.61
Area: 394151
Amount: 1.305914
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 392665
Amount: 1.300990
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:10:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

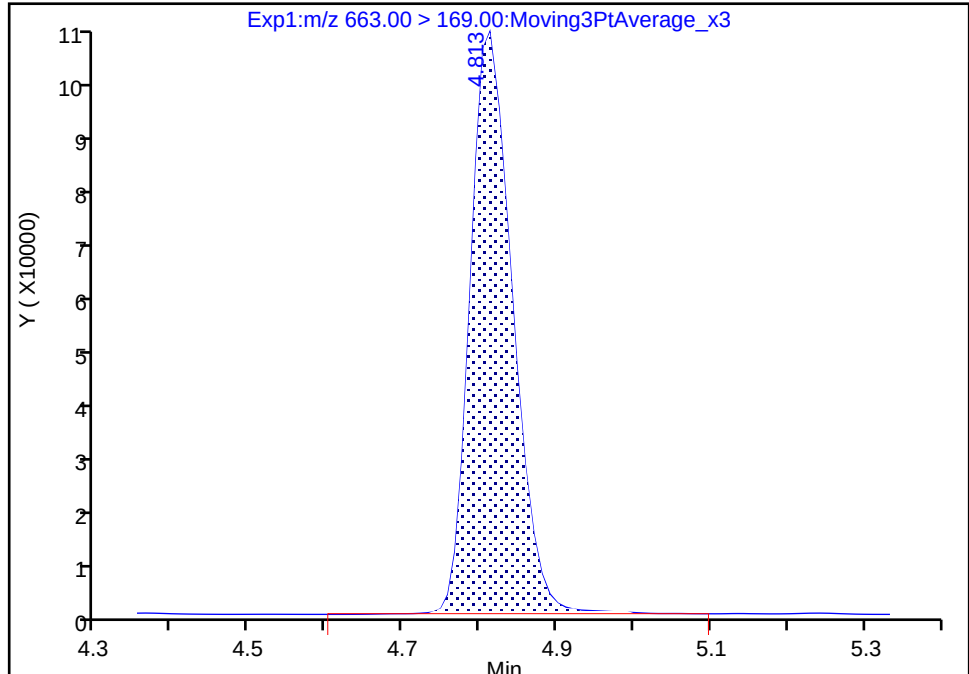
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

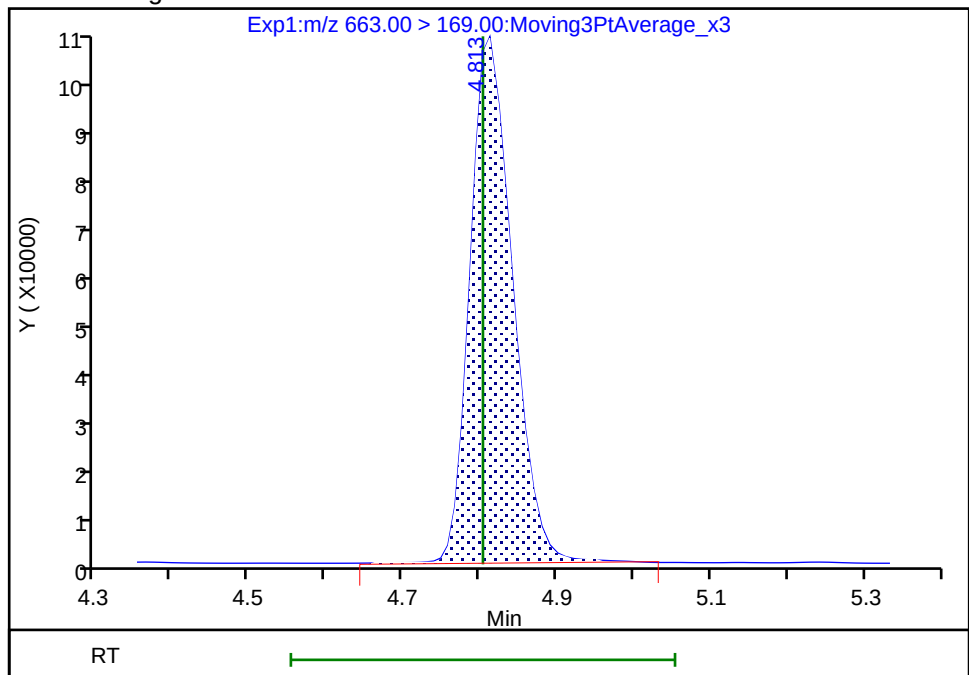
RT: 4.81
Area: 407279
Amount: 0.950757
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 404927
Amount: 0.950757
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:10:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

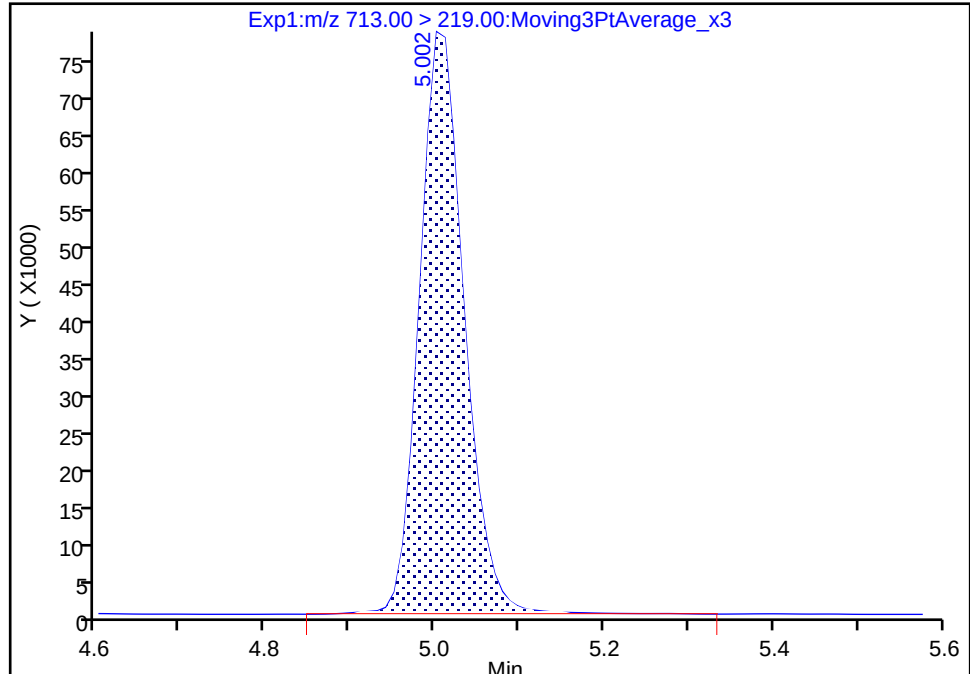
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

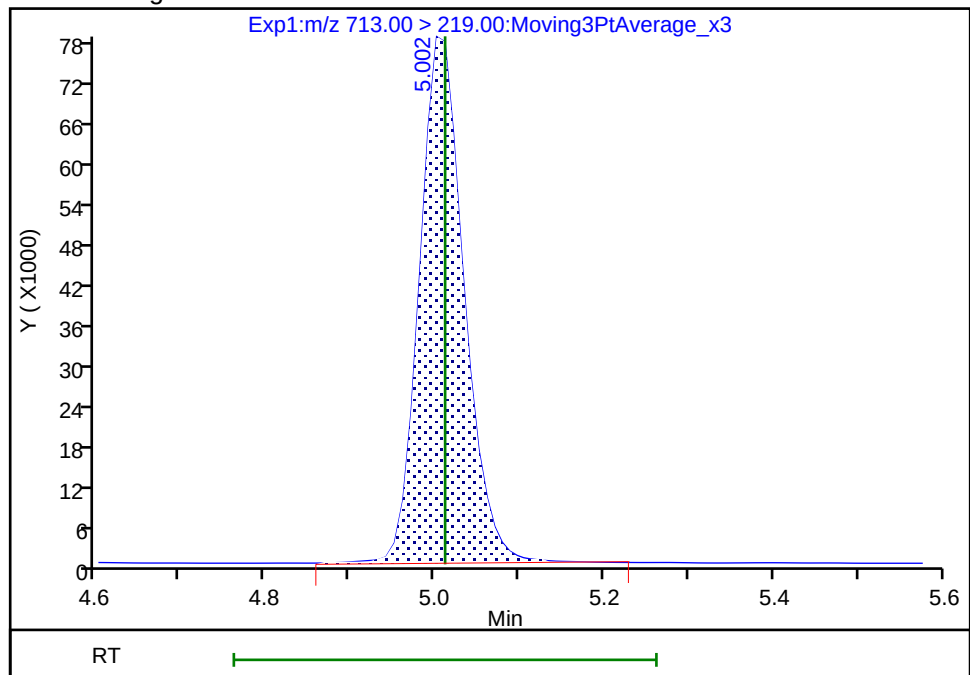
RT: 5.00
Area: 287716
Amount: 0.924572
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 285954
Amount: 0.924572
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:11:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

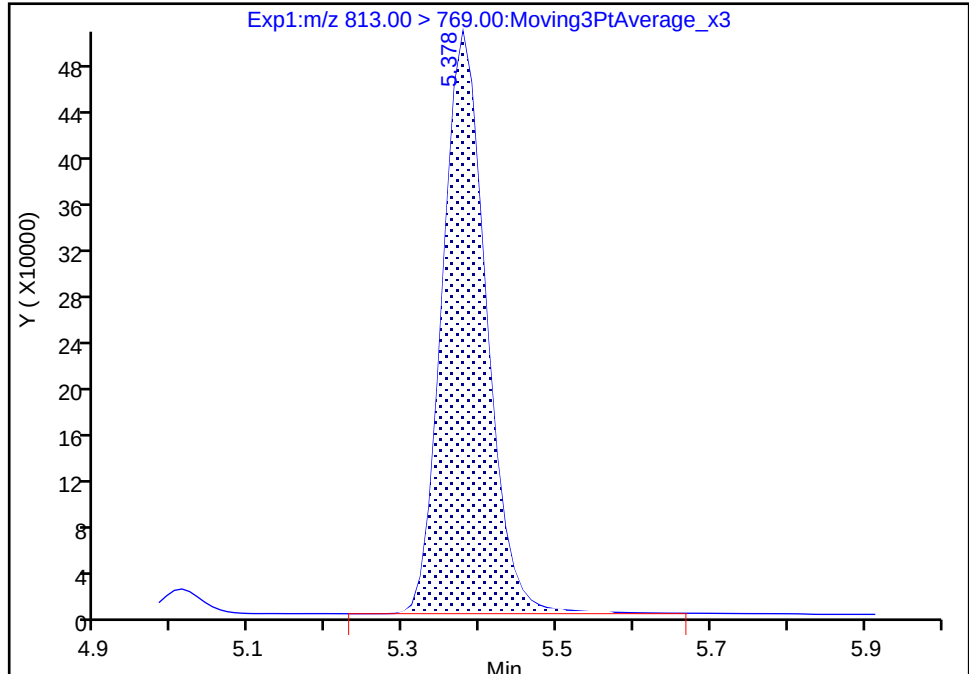
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

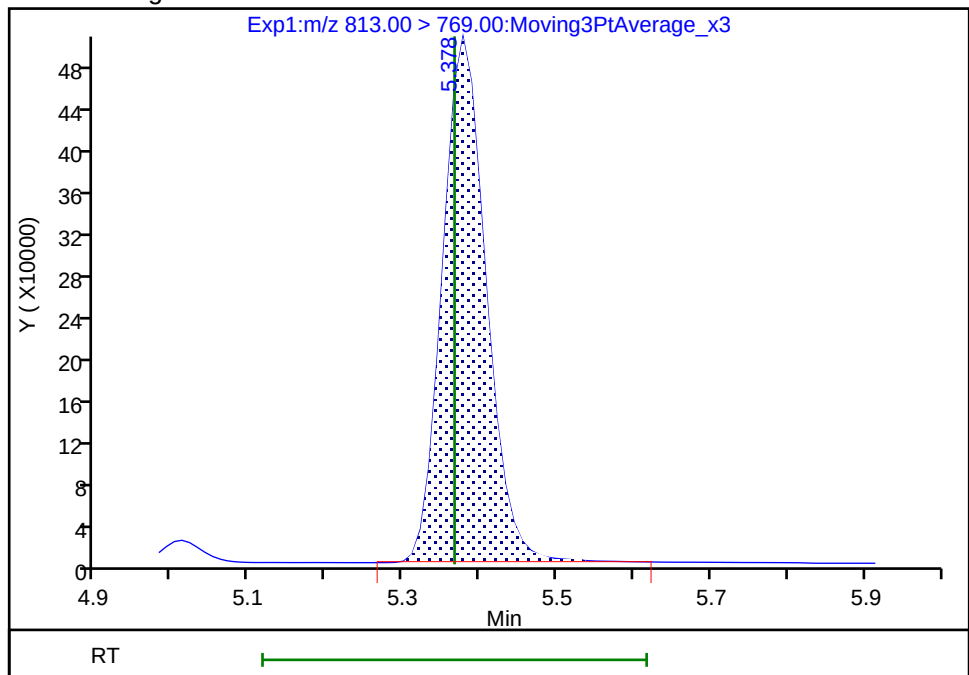
RT: 5.38
Area: 2013931
Amount: 0.945055
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 2009952
Amount: 0.943154
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:11:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

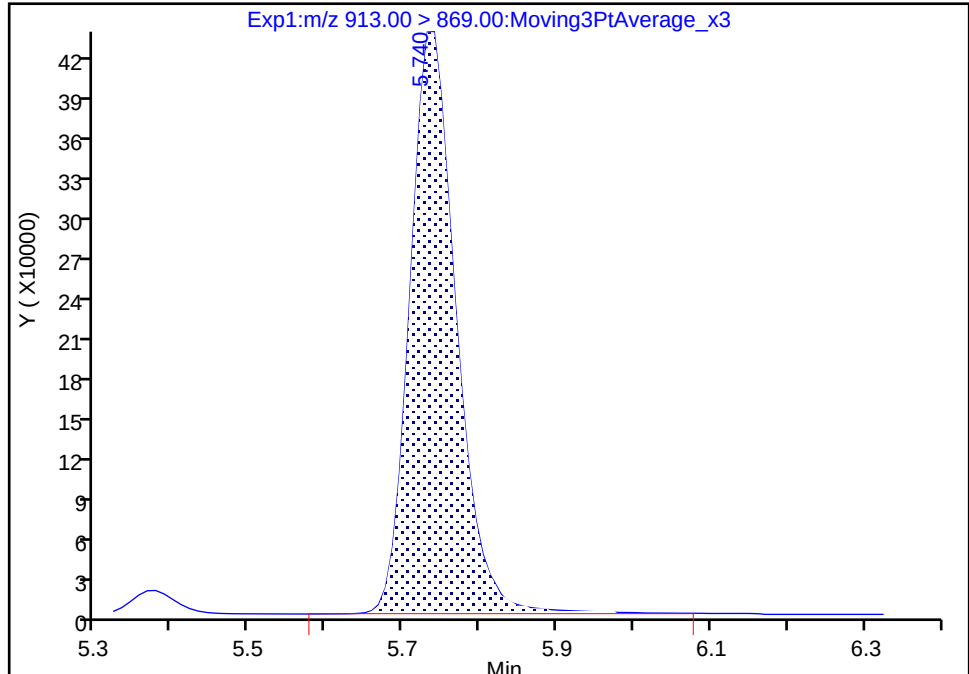
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A20.d
Injection Date: 16-Dec-2022 14:20:22 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

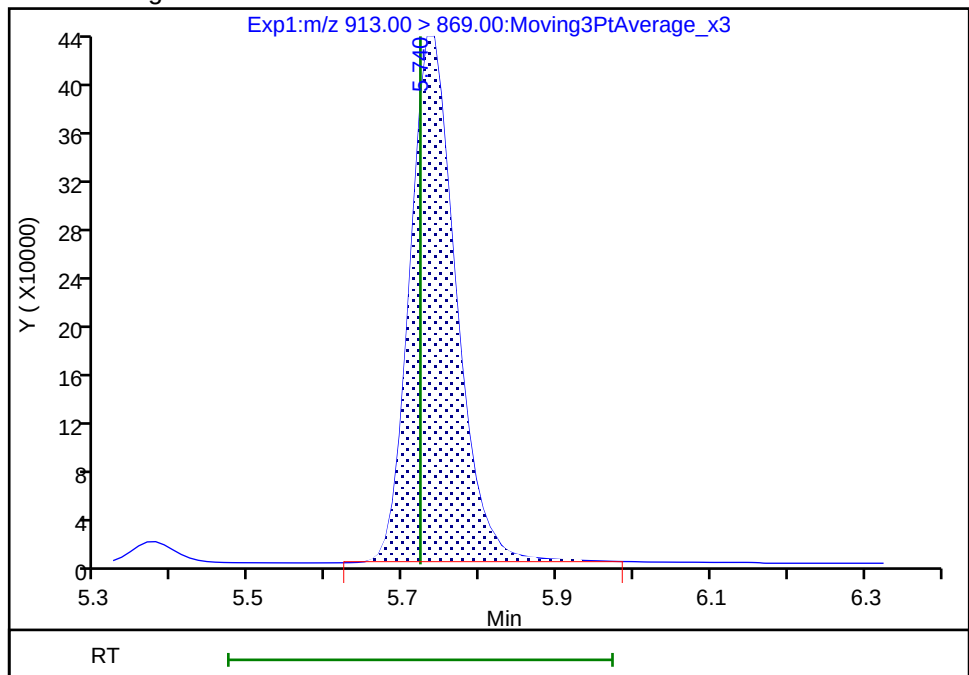
RT: 5.74
Area: 1808232
Amount: 0.964472
Amount Units: ng/ml

Processing Integration Results



RT: 5.74
Area: 1798619
Amount: 0.959345
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:11:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-186742/1-A

Matrix: Solid Lab File ID: PA221216A06.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.00 (g) Date Analyzed: 12/16/2022 12:26

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083
27619-97-2	6:2 FTS	2.00	U	2.00	0.057
39108-34-4	8:2 FTS	2.00	U	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-186742/1-A
 Matrix: Solid Lab File ID: PA221216A06.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16
 Sample wt/vol: 5.00(g) Date Analyzed: 12/16/2022 12:26
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	88		50-150
STL01892	13C4 PFHpA	94		50-150
STL00990	13C4 PFOA	93		50-150
STL00991	13C4 PFOS	90		50-150
STL00995	13C5 PFNA	101		50-150
STL00992	13C4 PFBA	76		50-150
STL00993	13C2 PFHxA	90		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	96		50-150
STL00998	13C2 PFDoA	96		50-150
STL01056	13C8 FOSA	85		50-150
STL01893	13C5 PFPeA	81		50-150
STL02116	13C2 PFTeDA	97		50-150
STL02118	d3-NMeFOSAA	94		50-150
STL02117	d5-NEtFOSAA	93		50-150
STL02279	M2-6:2 FTS	92		50-150
STL02280	M2-8:2 FTS	90		50-150
STL02337	13C3 PFBS	87		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
 Lims ID: MB 200-186742/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 16-Dec-2022 12:26:00 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-186742/1-A
 Misc. Info.: 200-0053717-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 09:19:40

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	2.085	2.076	0.009	0.602	2165310	0.9522		76.2	8580	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.004	74790	0.0419		6.8		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.387	0.013	0.693	1761269	1.02		81.4	2306	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.387	0.026	1.006	9620	0.006265		0.2		M
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.400	0.013	0.697	1902631	1.01		87.0	329596	M
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.413	2.400	0.013	1.000	3392	0.001811	Target=2.09	6.6		RM
298.90 > 99.00	2.426	2.400	0.026	1.006	659		5.15(1.04-3.13)	0.5		M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.780	180264	1.08		92.9	182	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.737	2.725	0.012	0.790	2051652	1.13		90.4	3336	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.737	2.725	0.012	1.000	3752	0.002098	Target=14.25	0.9		RM
313.00 > 119.00	2.750	2.725	0.025	1.004	851		4.41(7.12-21.37)	1.8		M
70 Perfluoropentanesulfonic acid										RM
349.00 > 80.00	2.750	2.737	0.013	0.887	584	0.000360	Target=3.04	2.8		RM
349.00 > 99.00	2.737	2.737	0.0	0.883	53		11.02(1.52-4.56)	0.4		M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.859	2.835	0.024	1.004	292	0.000909		2.4		M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.847	2.835	0.012	0.822	380131	1.19		94.9	1024	

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	3.099	3.088	0.011	0.895	1434464	1.05		88.5	2006	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.000	6456	0.004715	Target=3.66		33.0	M
399.00 > 99.00	3.110	3.088	0.022	1.004	2230		2.90(1.83-5.49)		3.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.110	3.099	0.011	0.898	2198144	1.18		94.2	3570	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.110	3.099	0.011	1.000	4706	0.002458	Target=3.97		1.1	R
363.00 > 169.00	3.110	3.099	0.011	1.000	689		6.83(1.98-5.95)		2.4	M
77 DONA										RM
377.00 > 251.00	3.132	3.132	0.0	0.828	1015	0.000220	Target=3.16		1.3	RM
377.00 > 85.00	3.143	3.132	0.011	0.831	653		1.55(1.58-4.73)		1.5	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.446	3.439	0.007	0.995	251422	1.09		92.1	739	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.464	3.439	0.025	1.005	1750	-0.007960			5.6	
D 14 13C4 PFOA										
417.00 > 372.00	3.464	3.448	0.016	1.000	2427140	1.16		92.5	3177	
* 62 13C2 PFOA										
415.00 > 370.00	3.464	3.448	0.016		2534161	1.25			3467	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.464	3.448	0.016	1.000	4979	0.002399	Target=2.79		0.4	
413.00 > 169.00	3.464	3.448	0.016	1.000	1798		2.77(1.40-4.19)		3.1	M
D 18 13C4 PFOS										
503.00 > 80.00	3.782	3.764	0.018	1.092	998988	1.07		89.9	2757	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.782	3.764	0.018	1.000	5740	0.005646	Target=5.11		7.2	M
499.00 > 99.00	3.772	3.764	0.008	0.997	1100		5.22(2.55-7.66)		3.7	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.801	3.783	0.018	1.003	3668	0.001723	Target=8.55		0.8	M
463.00 > 169.00	3.801	3.783	0.018	1.003	519		7.07(4.28-12.83)		5.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.791	3.783	0.008	1.095	2565519	1.26		101	4752	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.939	3.928	0.011	1.042	987	0.000423			7.2	M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.182	2717411	1.31		105	4125	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.093	4.081	0.012	1.000	2517	0.001068	Target=10.26		1.3	M
513.00 > 169.00	4.081	4.081	0.0	0.997	405		6.21(5.13-15.38)		1.3	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.093	0.011	1.185	304692	1.08		90.5	961	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.115	4.093	0.022	1.003	216	0.000525			2.8	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.161	4.150	0.011	1.000	1457	0.000966			9.2	M

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	4.161	4.150	0.011	1.201	1805266	1.06		84.8	1974	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.238	4.228	0.010	1.224	496809	1.17		93.9	2435	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.249	4.228	0.021	1.003	655	-0.009711			2.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.365	4.353	0.011	1.260	2287978	1.20		96.2	4270	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.387	4.365	0.022	1.003	727	0.002095			6.1	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.376	4.365	0.011	1.263	484563	1.16		93.1	1118	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.454	4.454	0.0	1.178	1211	0.000337			6.5	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	4087	0.002083	Target=7.77		0.4	
613.00 > 169.00	4.602	4.591	0.011	1.002	541		7.55(3.89-11.66)		6.5	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.325	2315099	1.19		95.5	5316	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.633	4.612	0.021	1.129	136	0.000550			2.5	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	1837	0.000979	Target=5.21		0.2	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	686		2.68(2.60-7.81)		4.5	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	440	0.001975	Target=0.89		4.4	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	562		0.78(0.44-1.33)		6.5	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.447	2034622	1.21		97.1	5821	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.000	23141	-0.004505	Target=5.65		2.7	M
813.00 > 169.00	5.378	5.367	0.011	1.000	3740		6.19(2.82-8.47)		31.4	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.367	0.011	1.553	2501839	1.21		96.6	4626	
46 Perfluorooctadecanoic acid										RM
913.00 > 869.00	5.740	5.722	0.018	1.067	2426	0.001472	Target=6.24		0.5	RM
913.00 > 169.00	5.731	5.722	0.009	1.066	198		12.25(3.12-9.36)		2.4	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

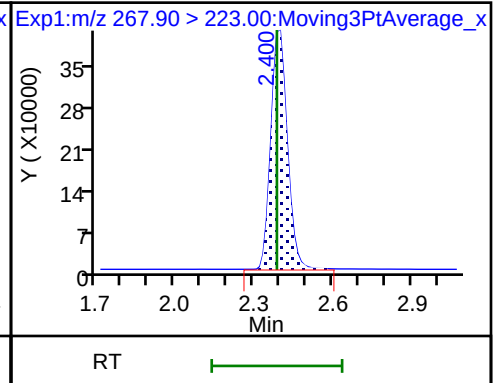
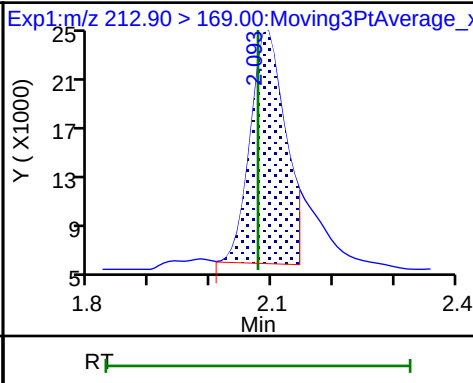
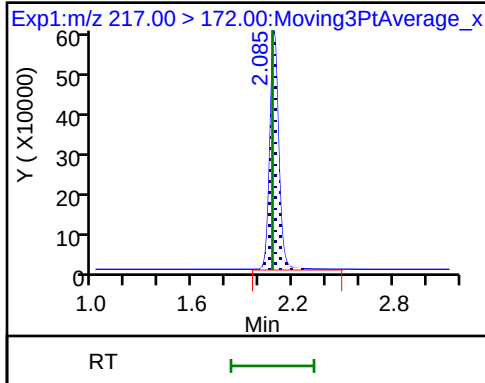
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

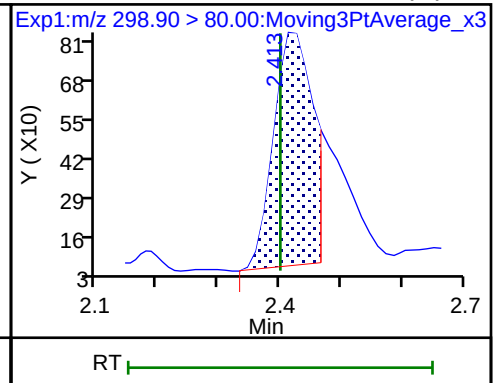
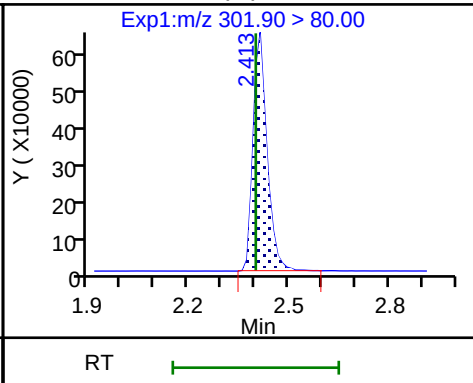
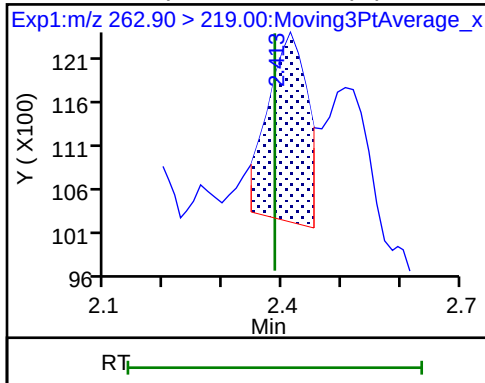
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

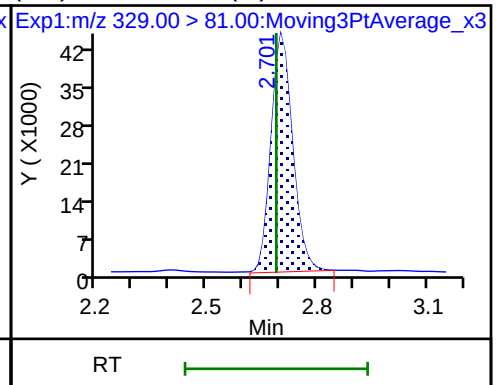
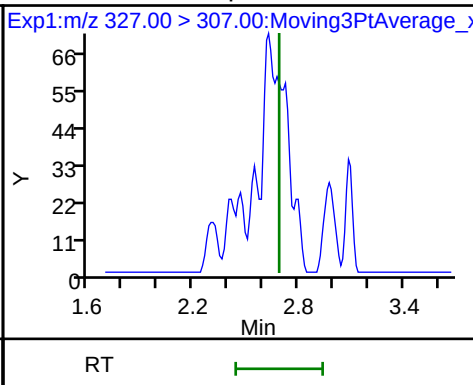
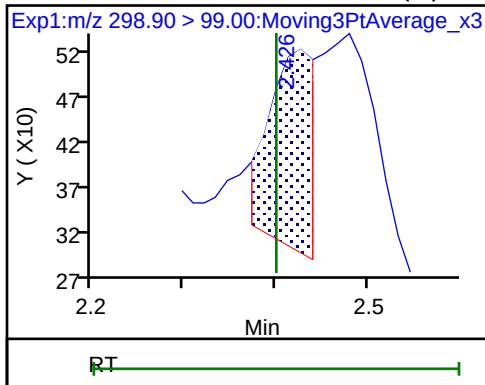
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonic acid (M)

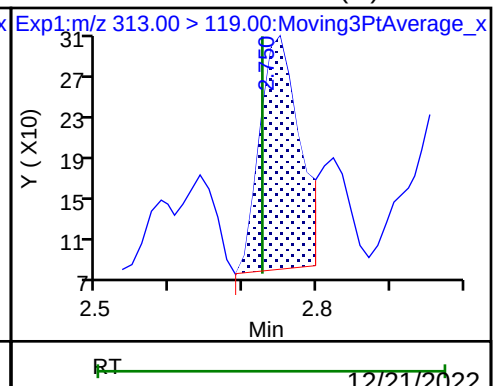
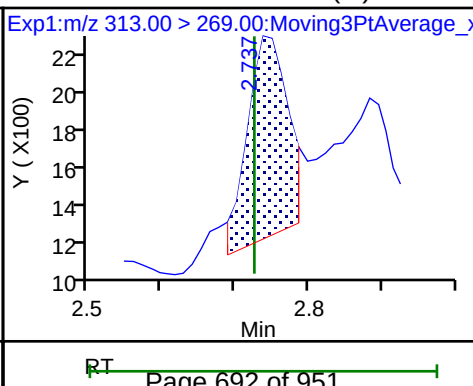
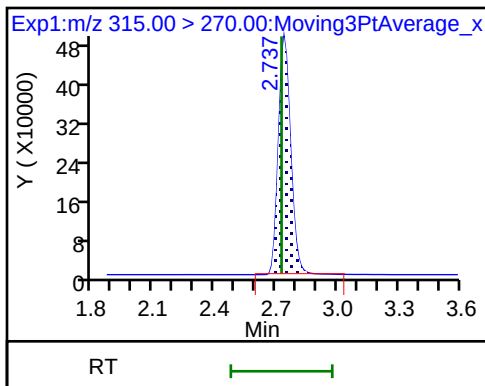
D 10 M2-4:2 FTS (M)



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

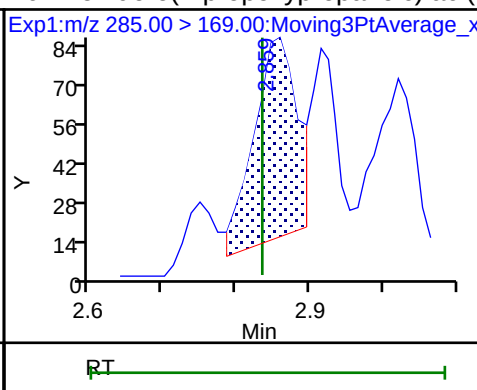
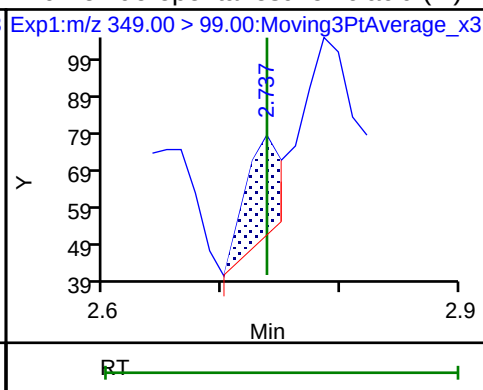
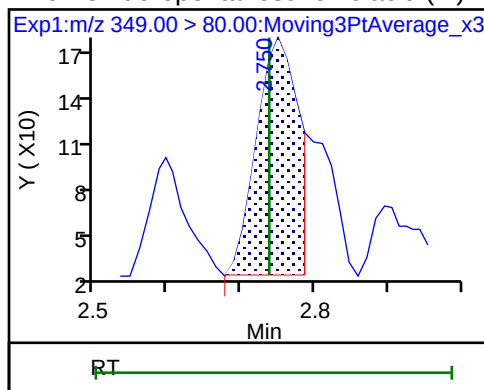
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

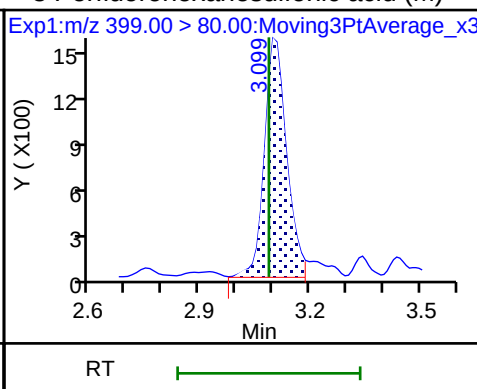
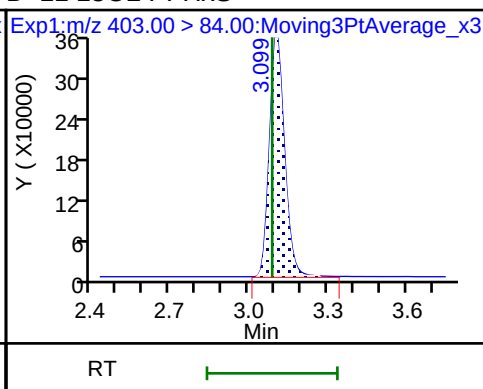
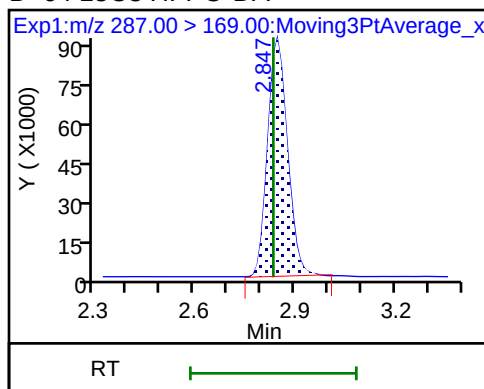
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

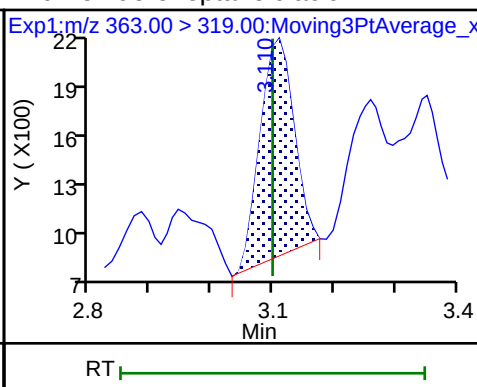
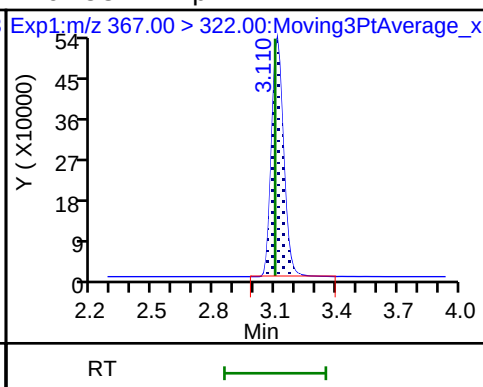
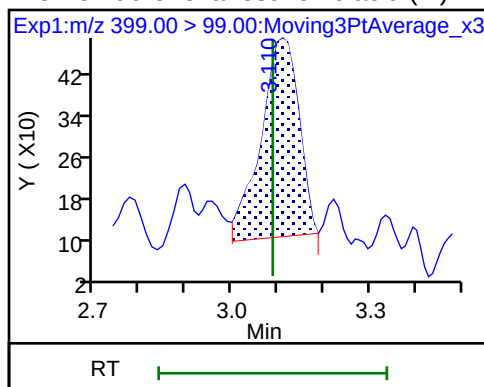
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

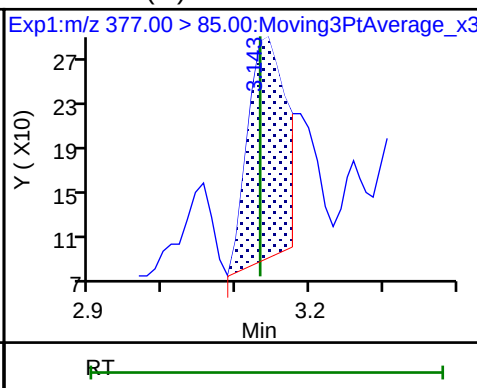
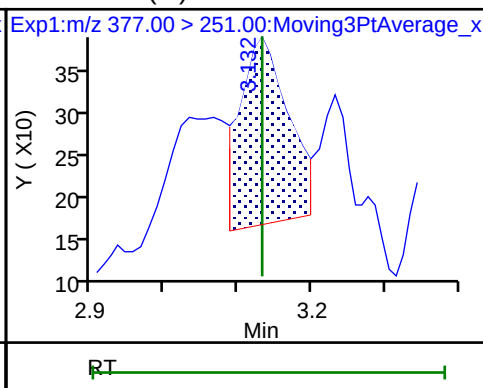
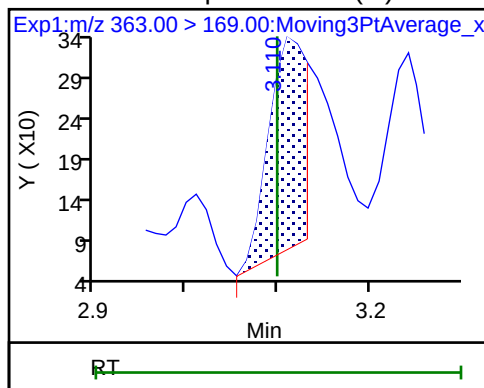
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid (M)

77 DONA (M)

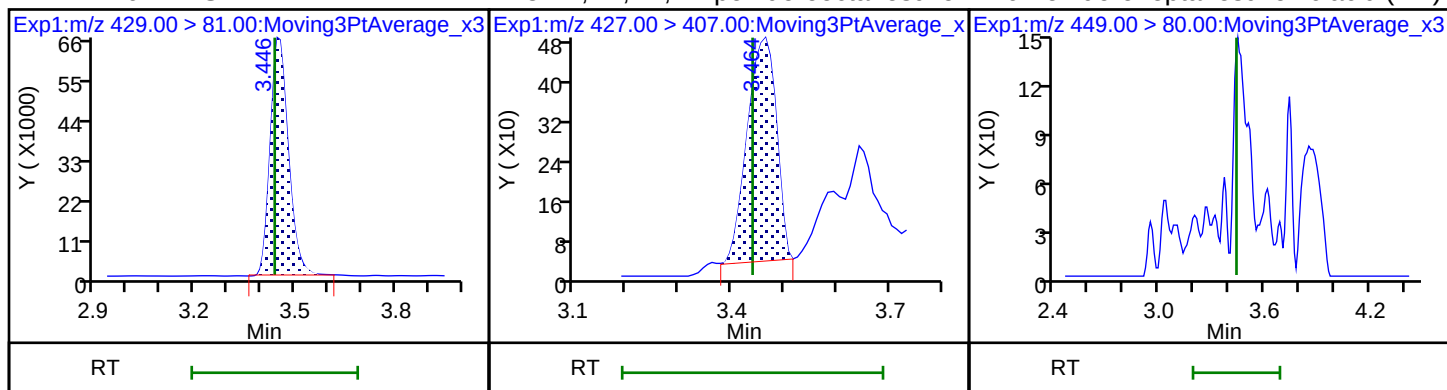
77 DONA (M)



D 12 M2-6:2 FTS

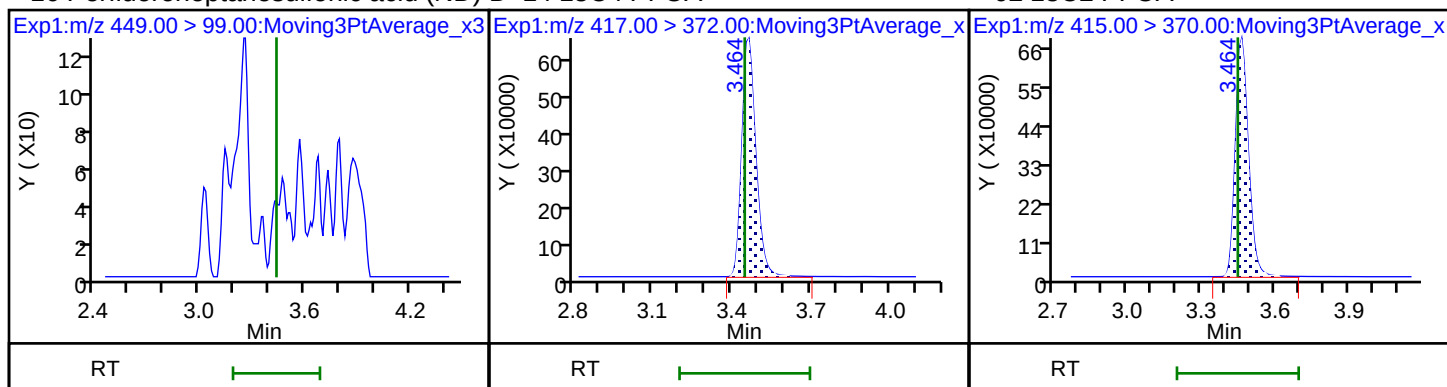
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

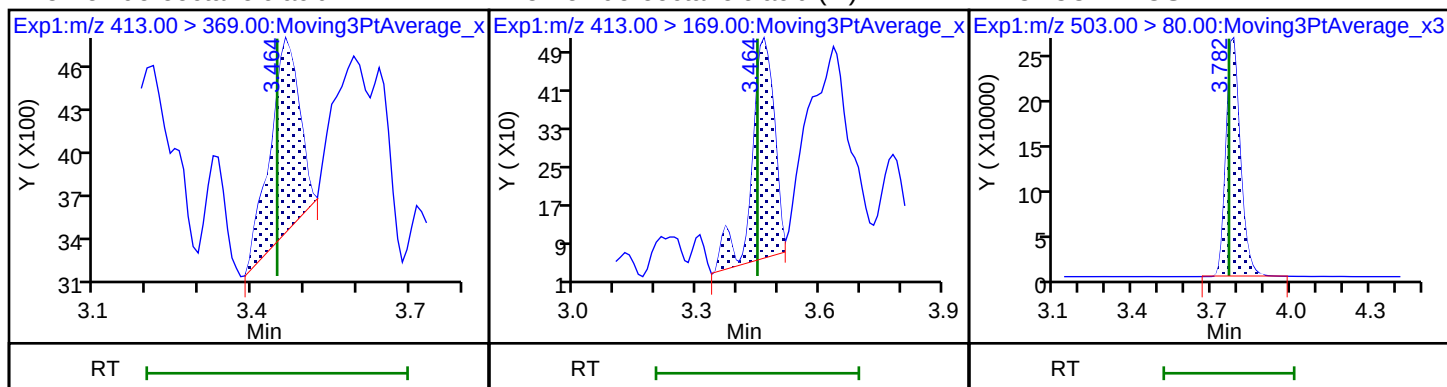
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

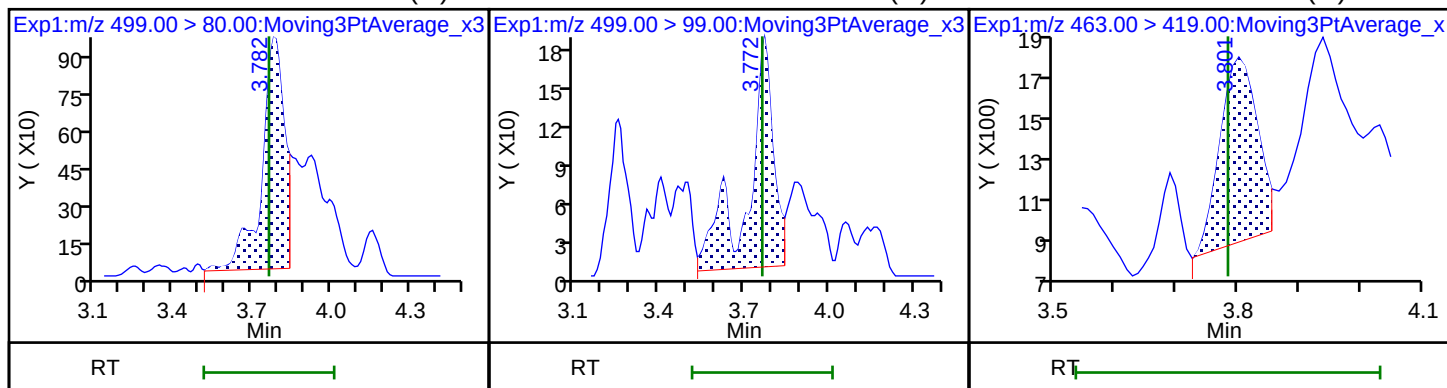
D 18 13C4 PFOS

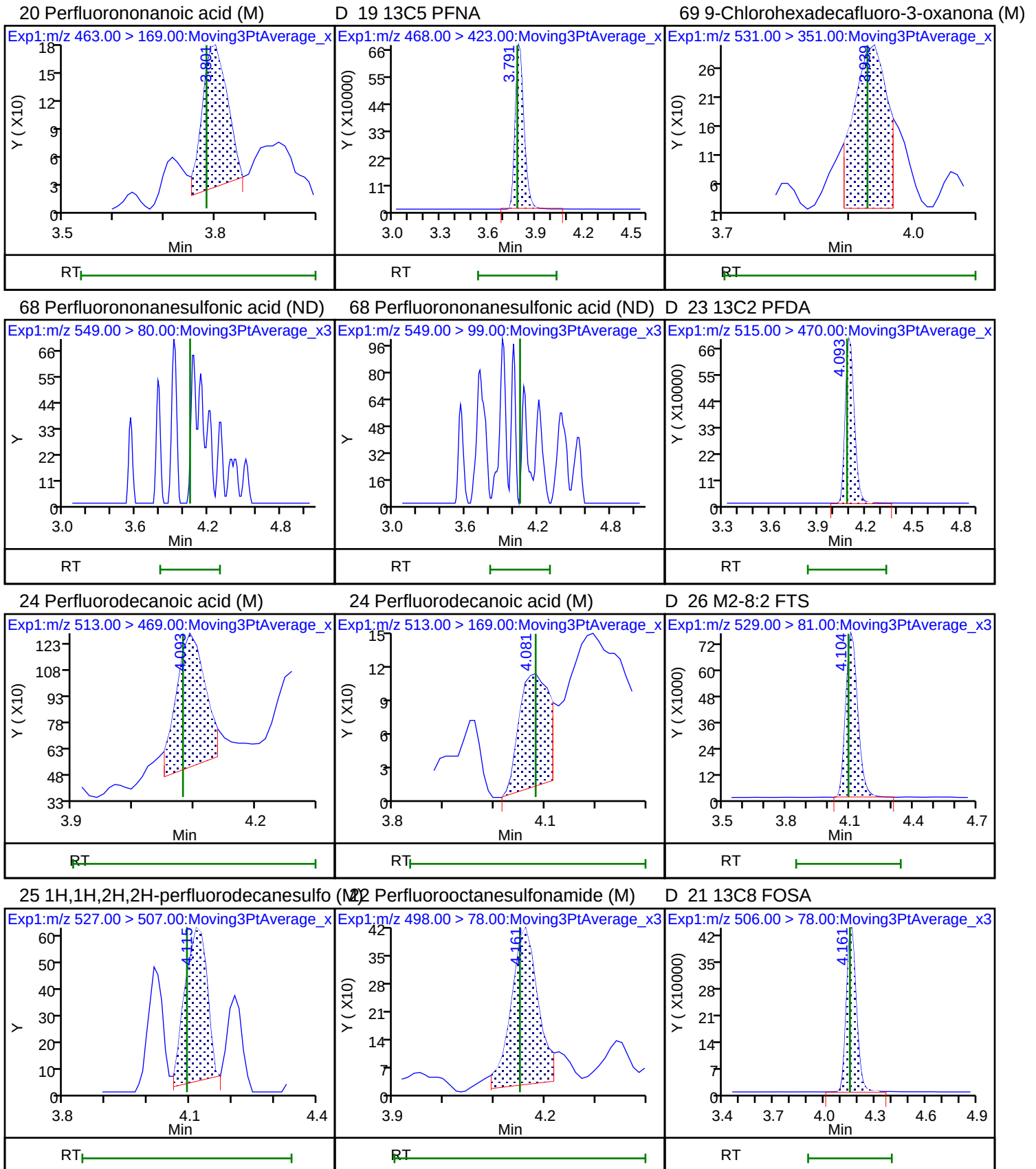


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

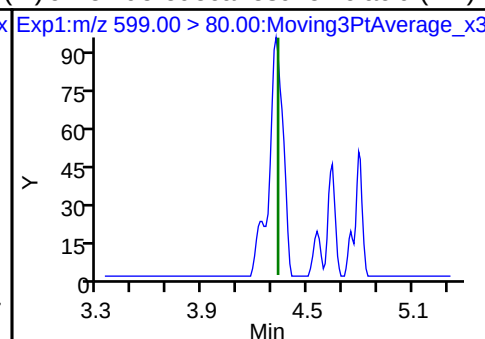
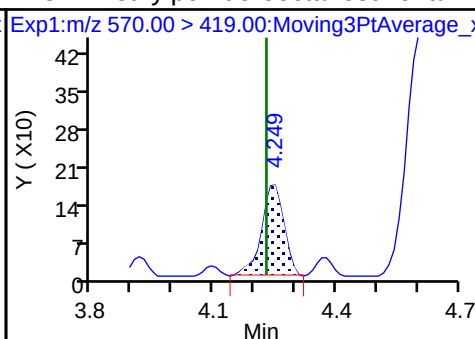
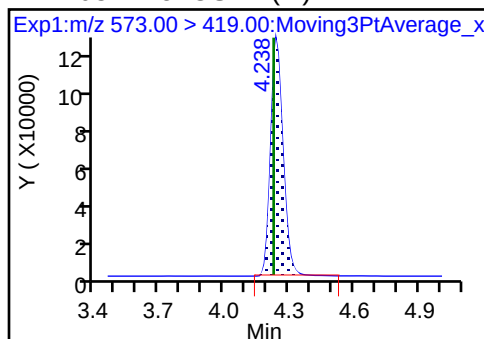




D 27 d3-NMeFOSAA (M)

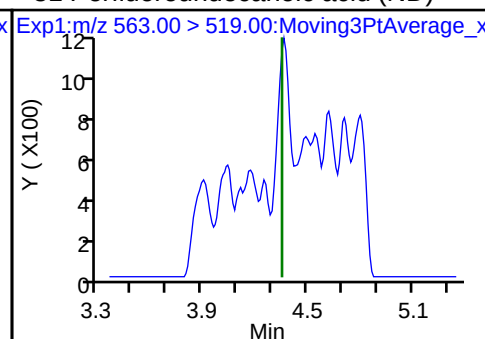
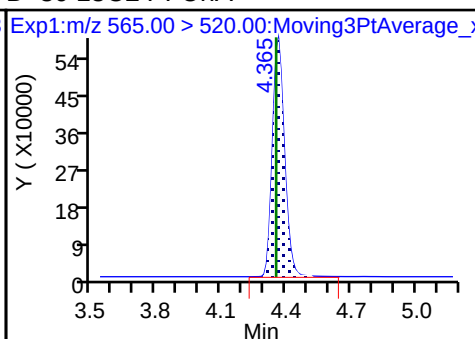
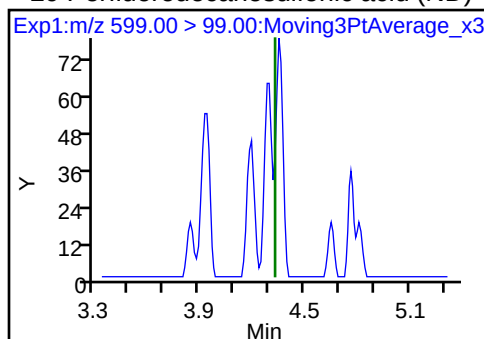
28 N-methylperfluorooctanesulfonami (M)

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUaA

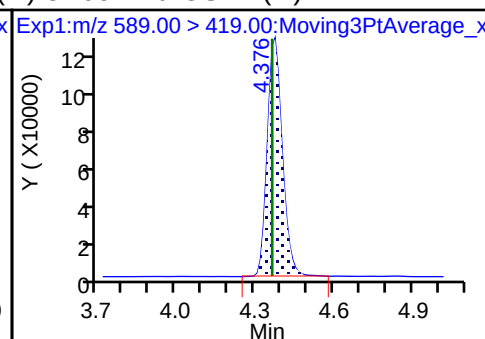
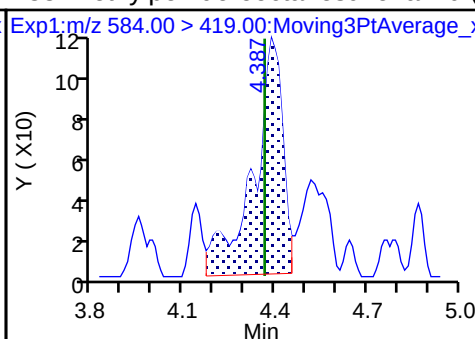
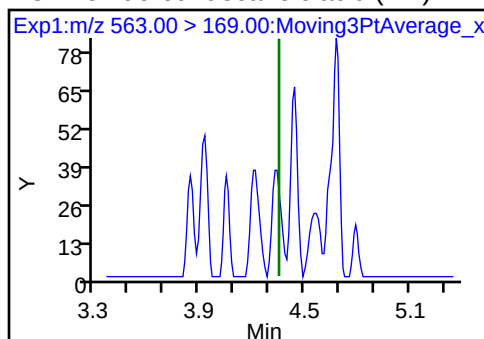
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (M)

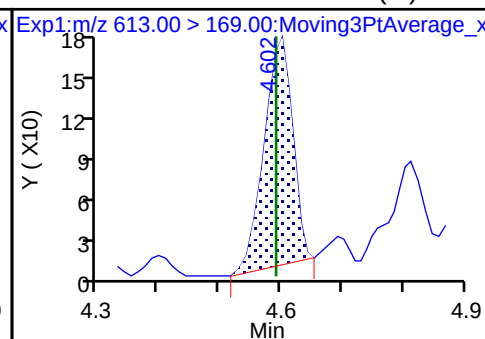
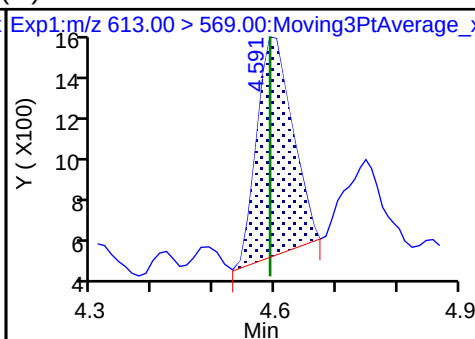
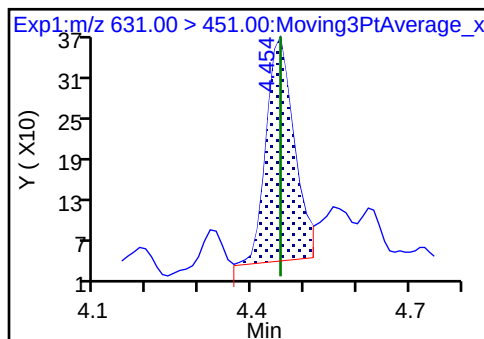
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

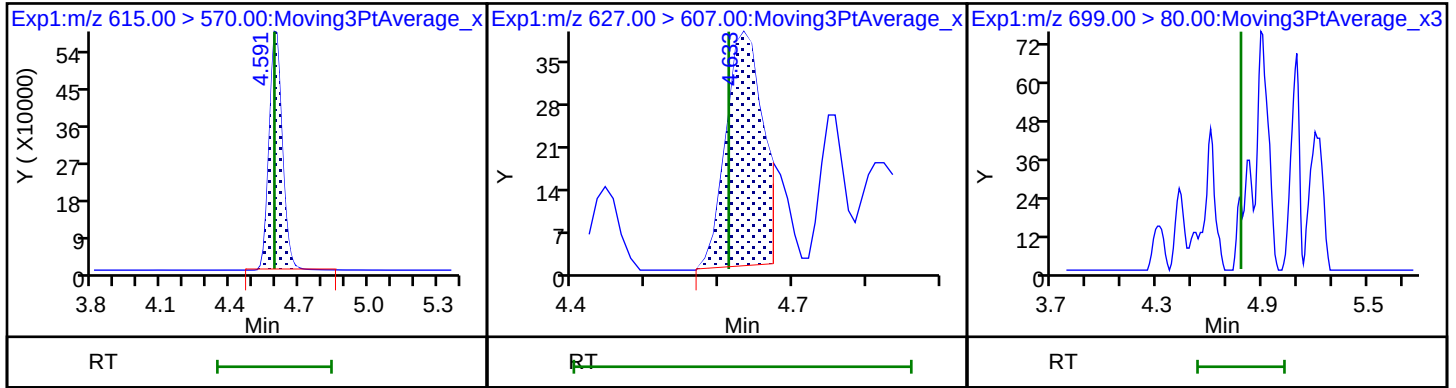
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



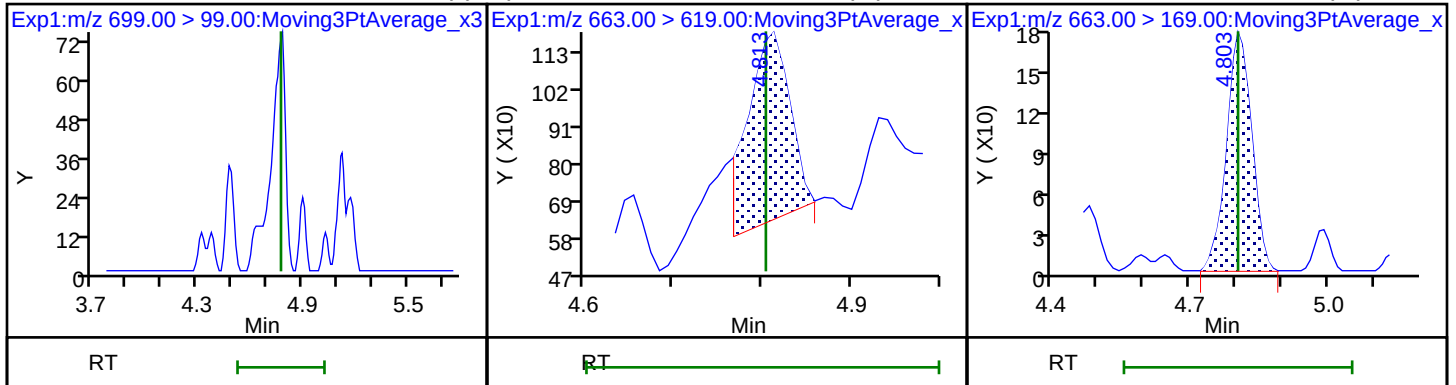
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (M)

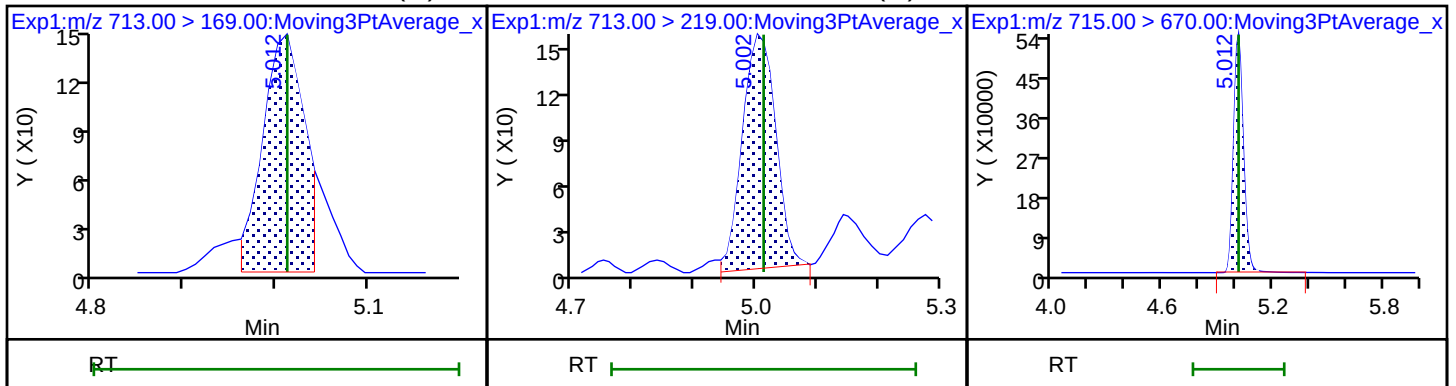
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

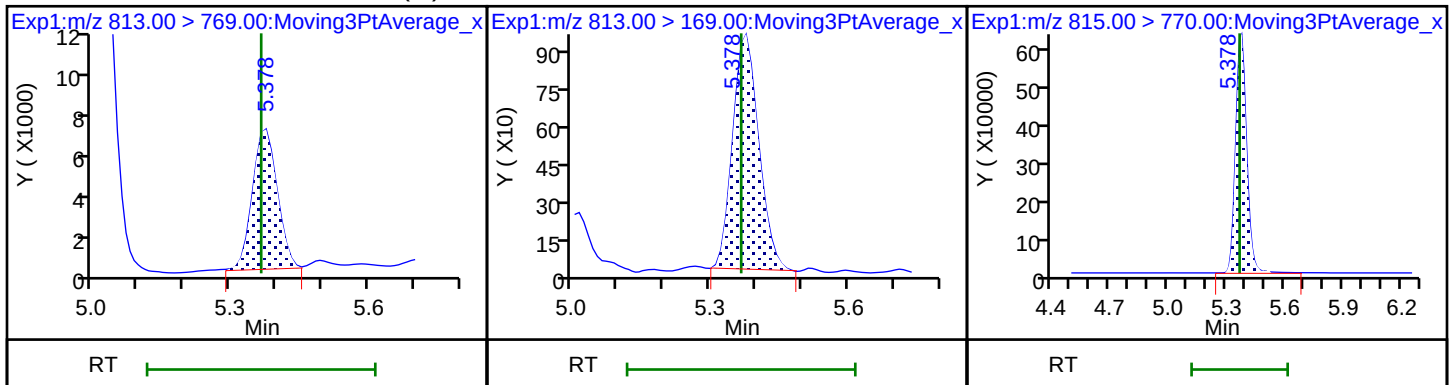
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

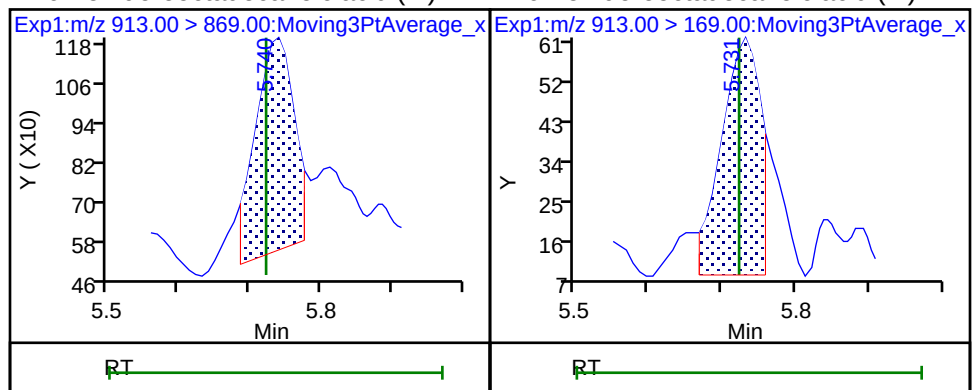
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

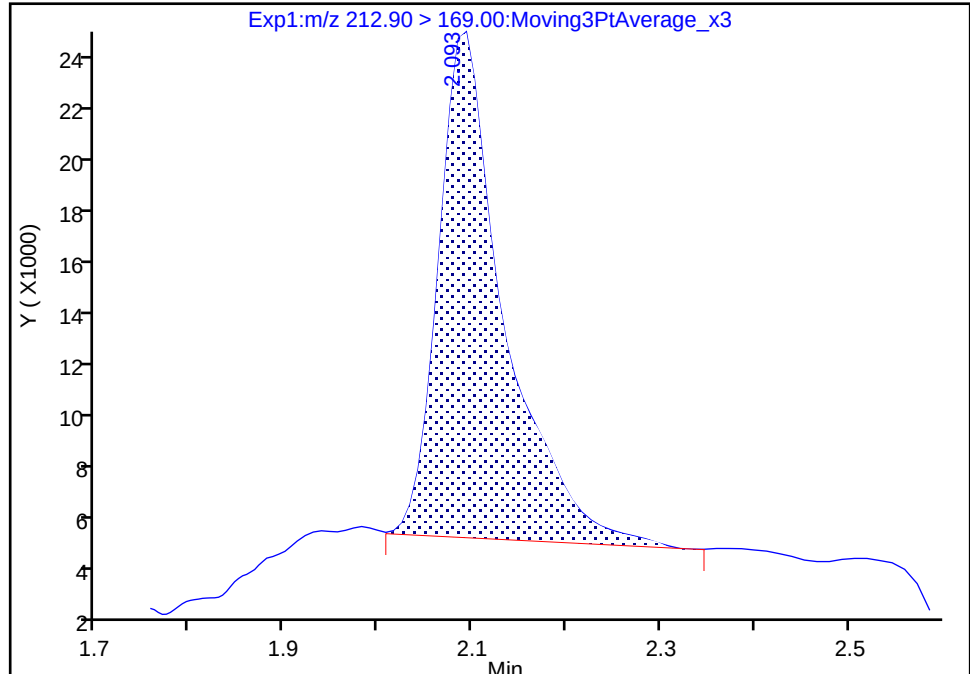
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Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

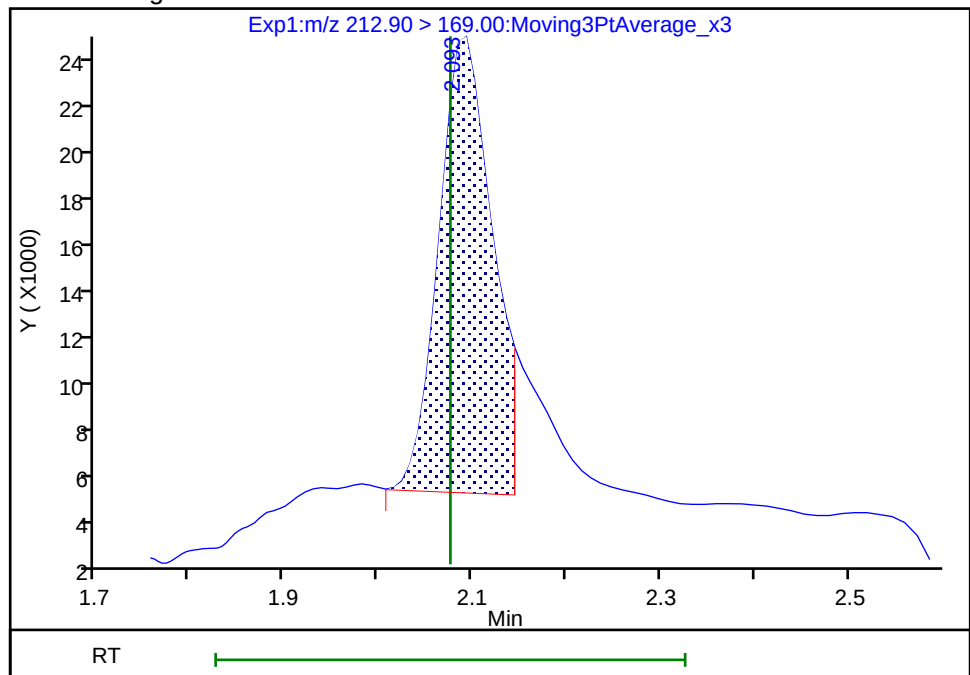
RT: 2.09
Area: 92260
Amount: 0.051649
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 74790
Amount: 0.041869
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:12:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

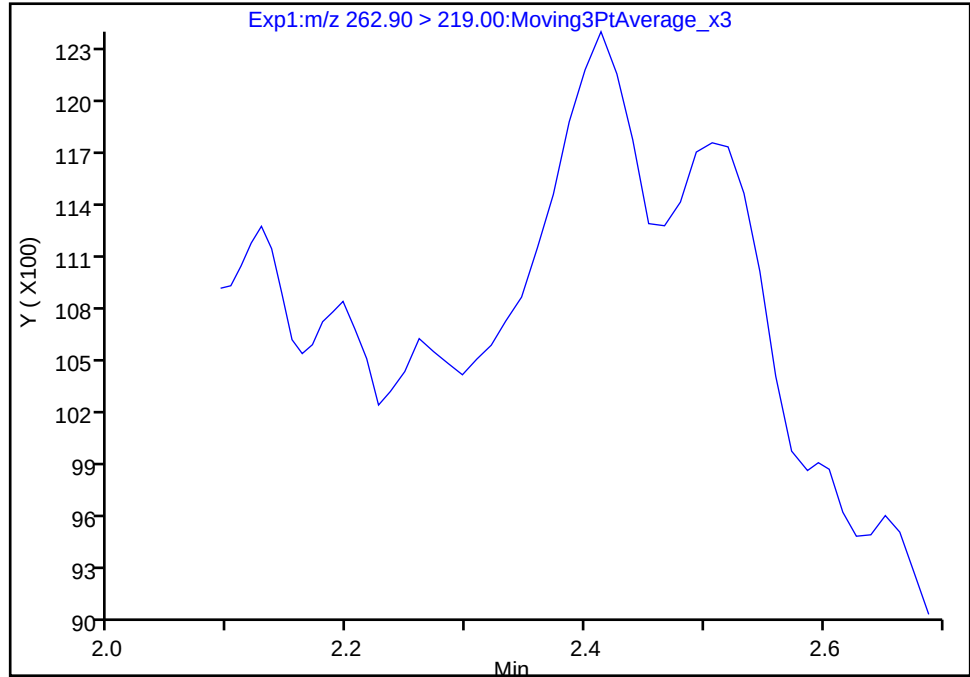
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Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

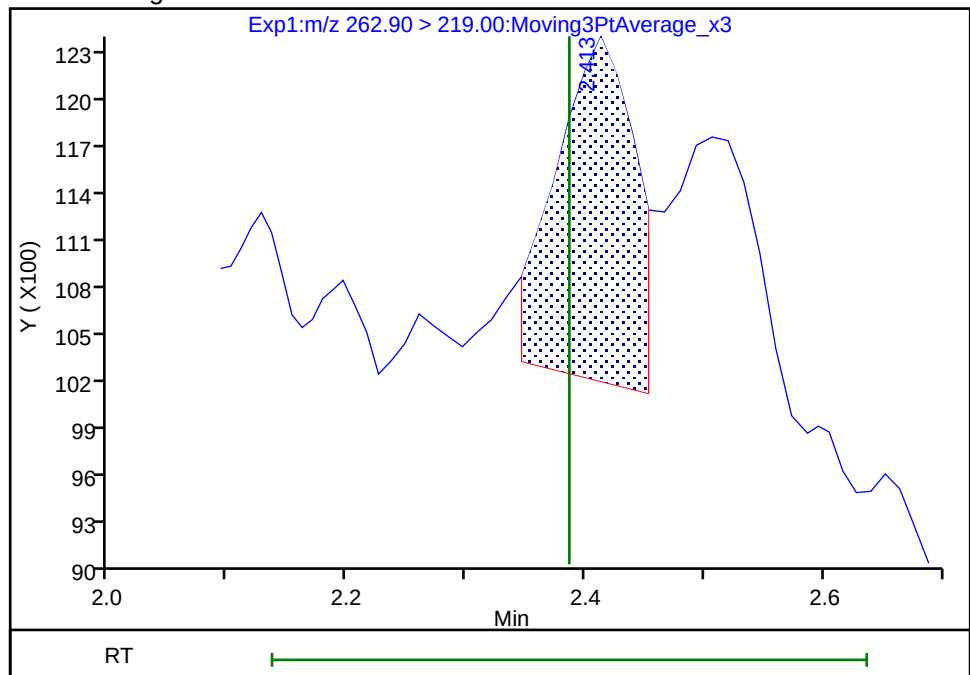
Not Detected
Expected RT: 2.39

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 9620
Amount: 0.006265
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:12:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 700 of 951

12/21/2022
3:12 PM

Eurofins Burlington

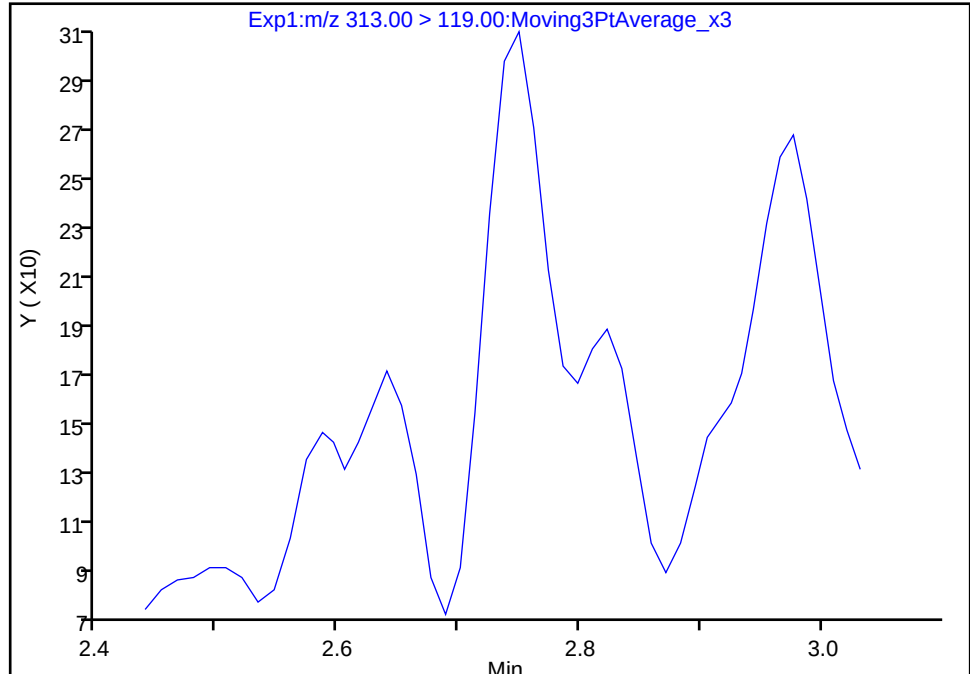
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Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

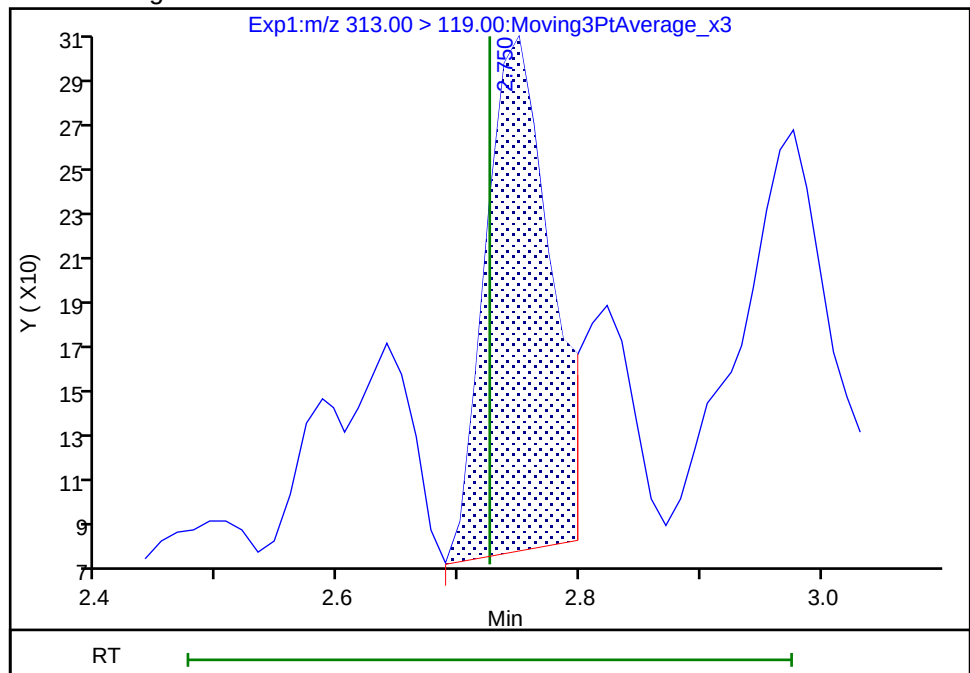
Signal: 2

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.75
Area: 851
Amount: 0.002098
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:13:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

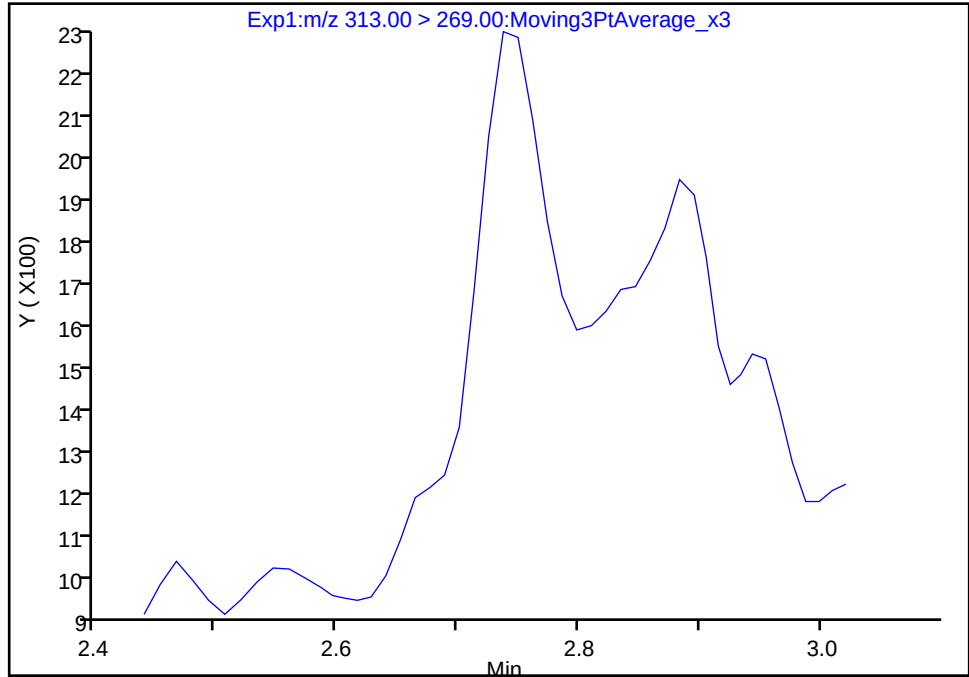
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

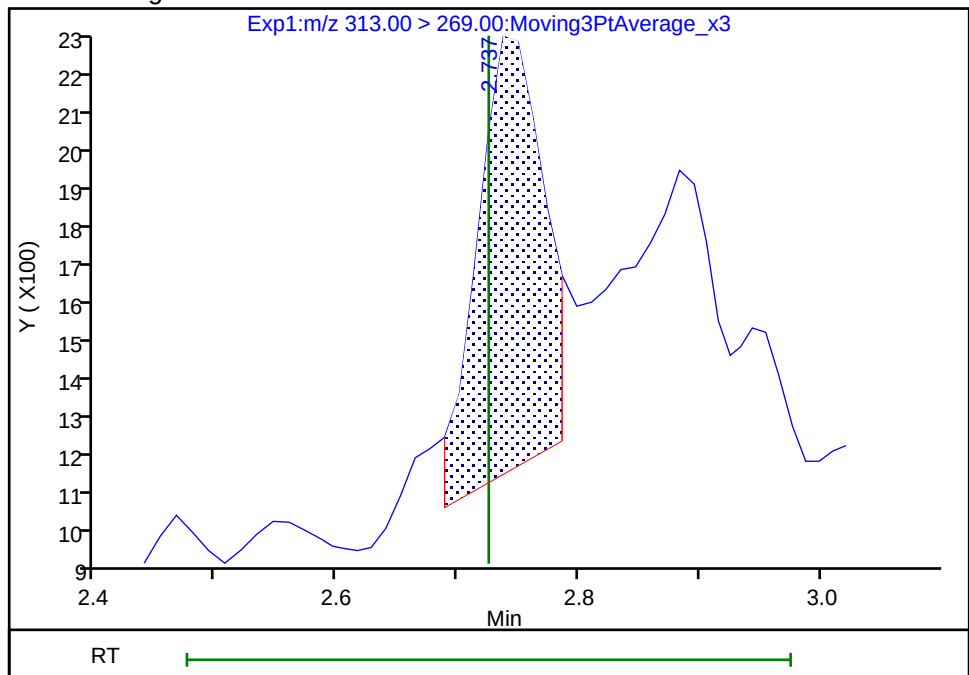
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 3752
Amount: 0.002098
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:13:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

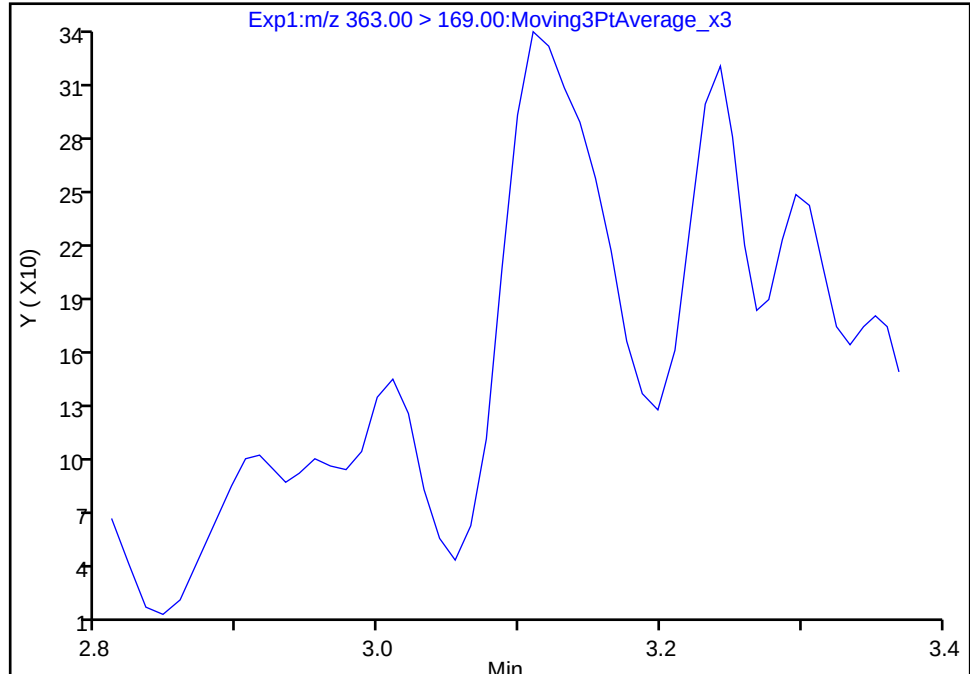
10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

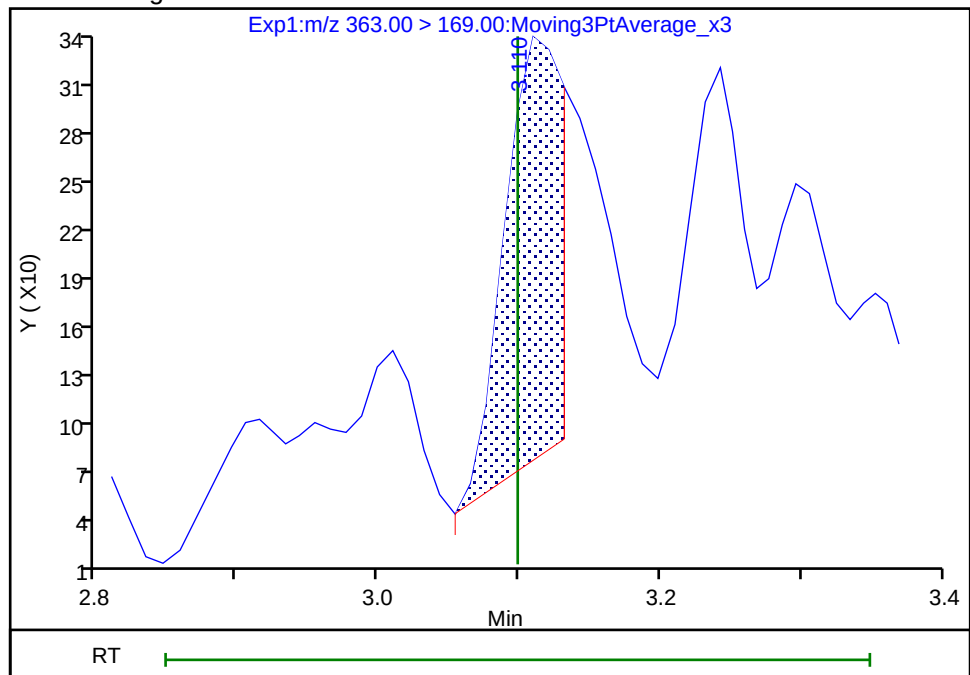
Not Detected

Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.11

Area: 689

Amount: 0.002458

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:14:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

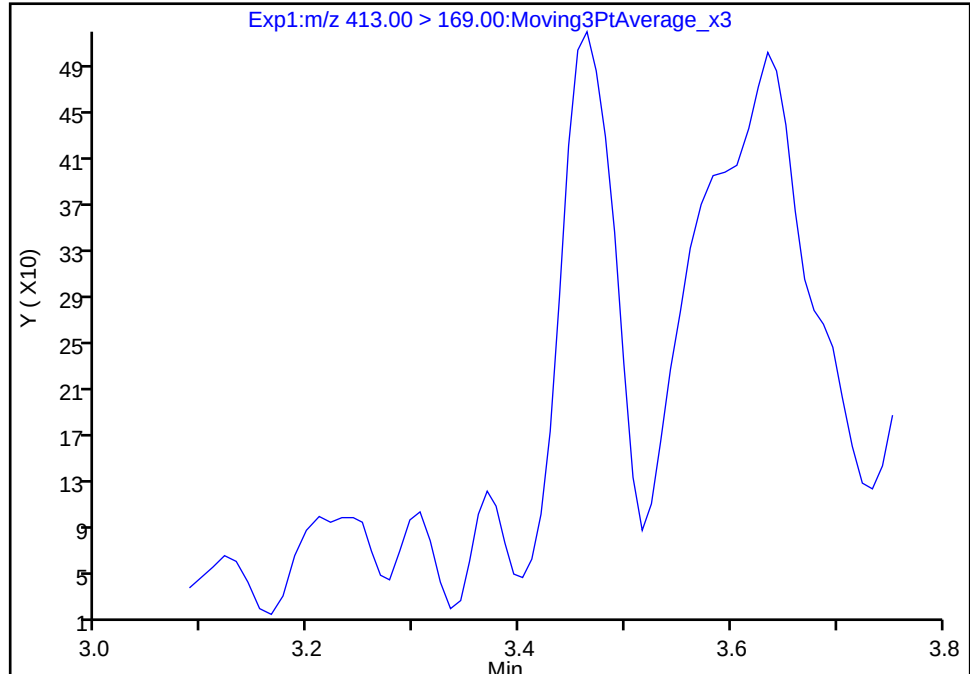
15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

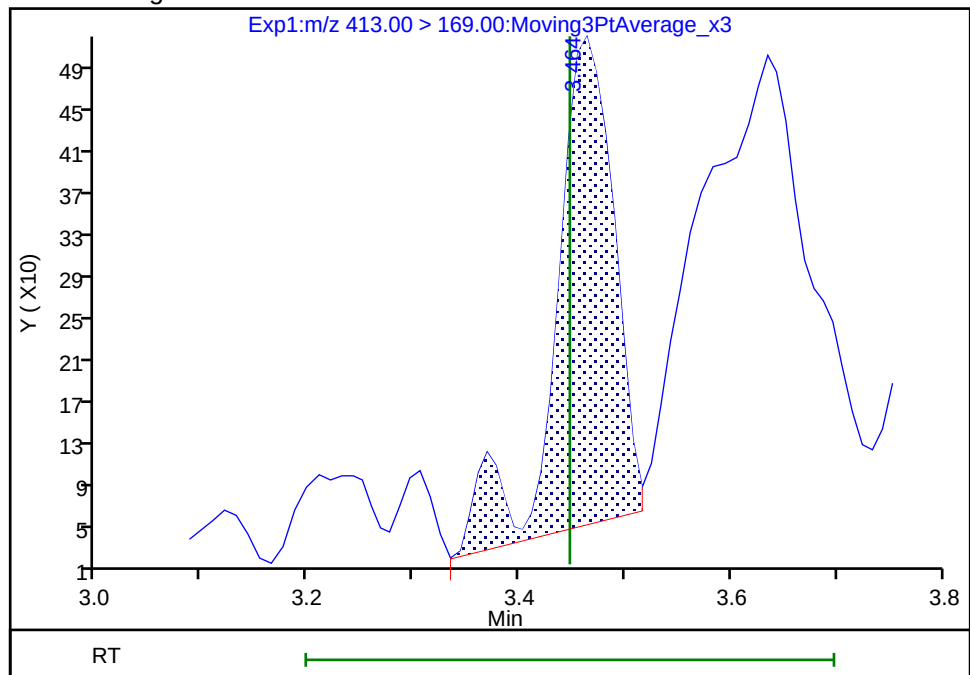
Not Detected

Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.46

Area: 1798

Amount: 0.002399

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:14:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

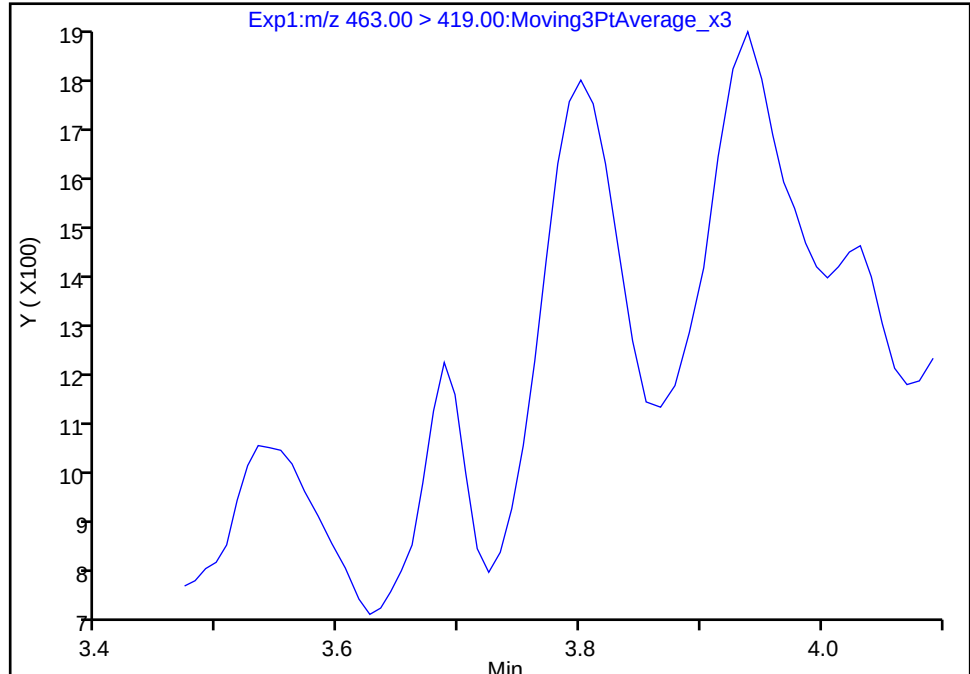
20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

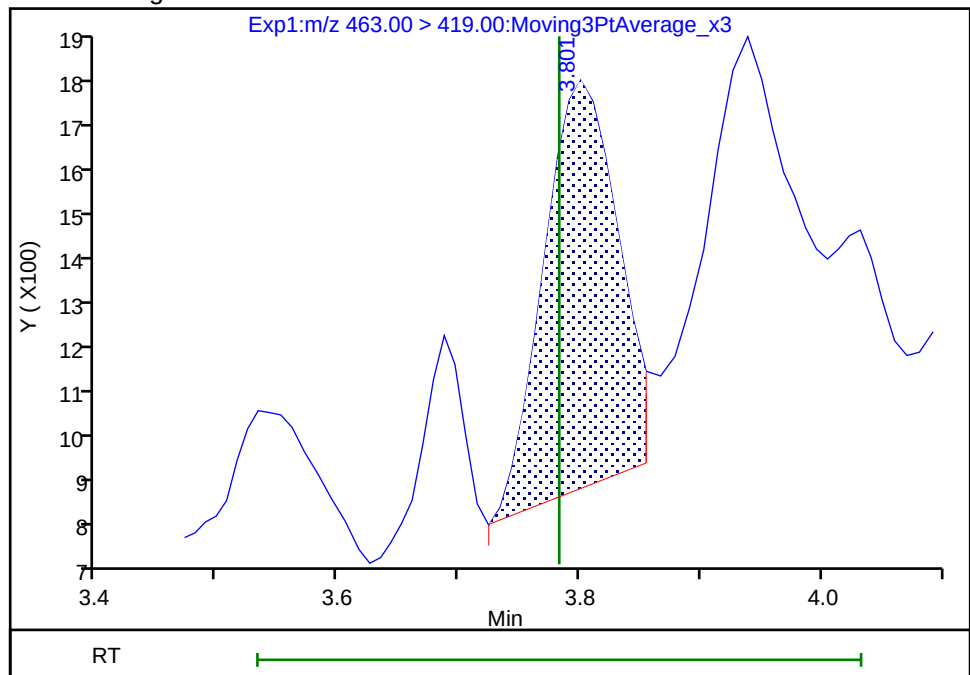
Not Detected

Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.80

Area: 3668

Amount: 0.001723

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:15:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

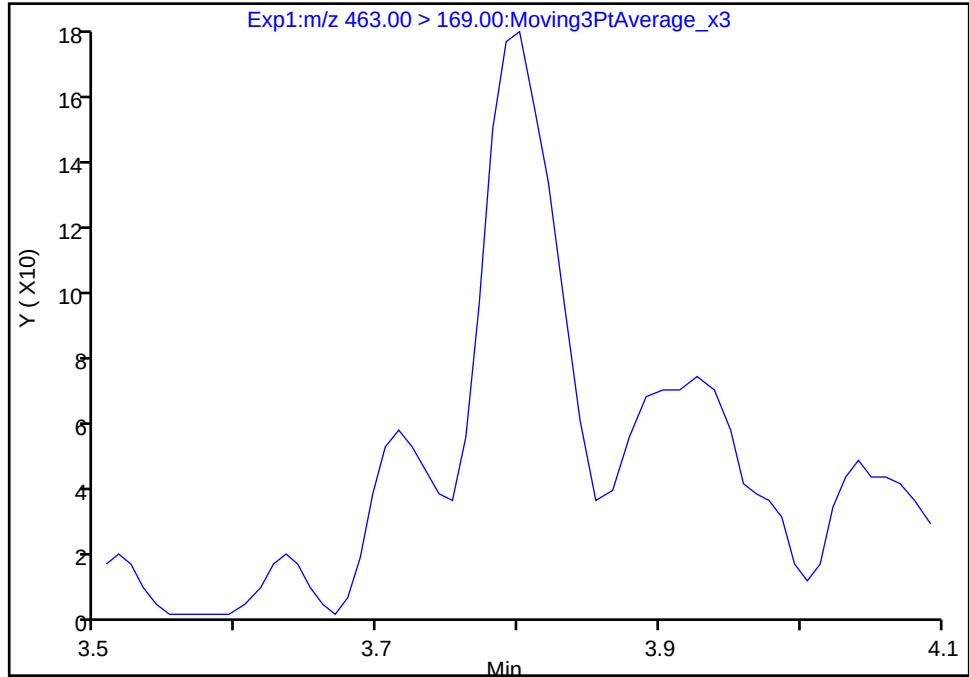
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

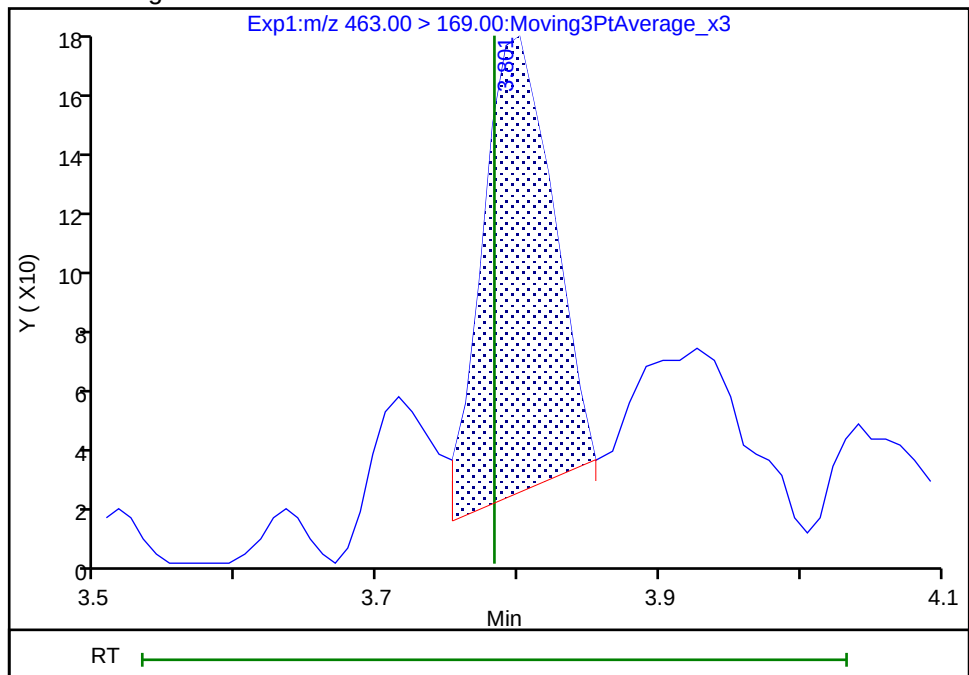
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 519
Amount: 0.001723
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:15:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

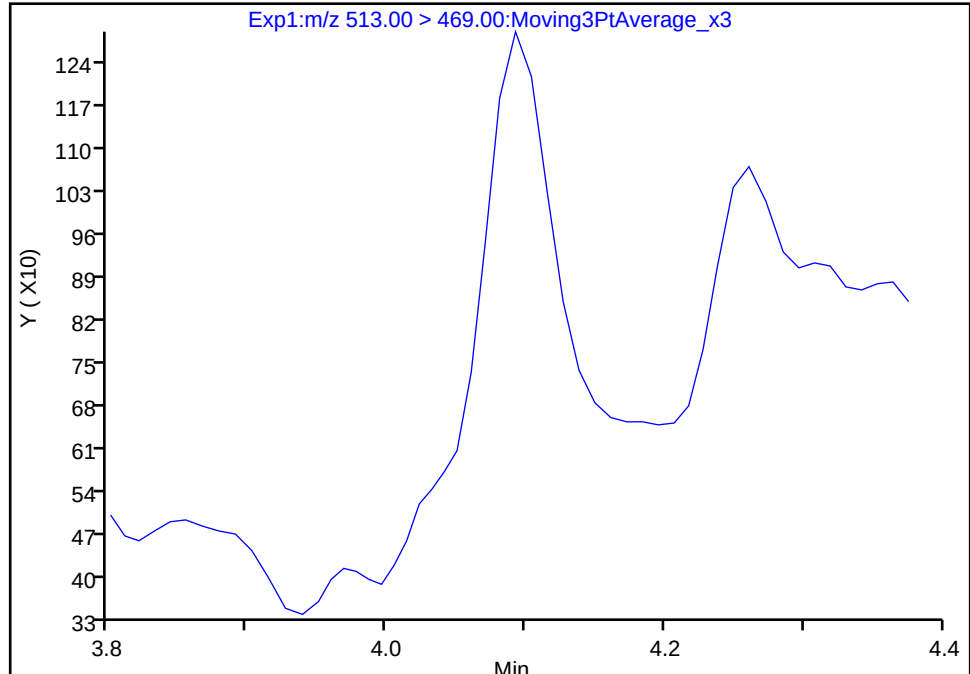
24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

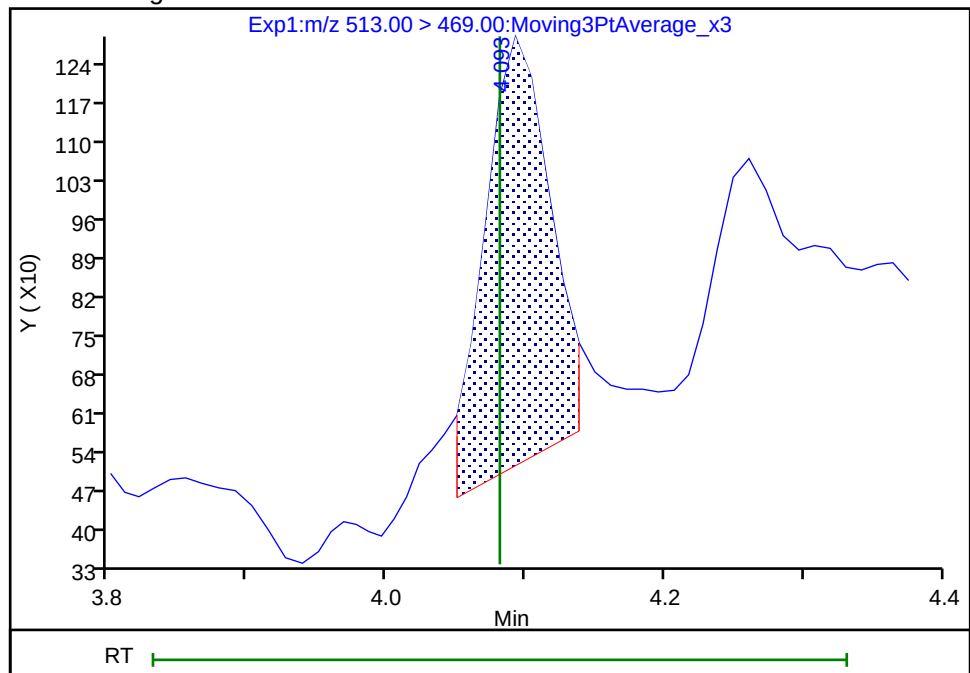
Not Detected

Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.09

Area: 2517

Amount: 0.001068

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:16:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

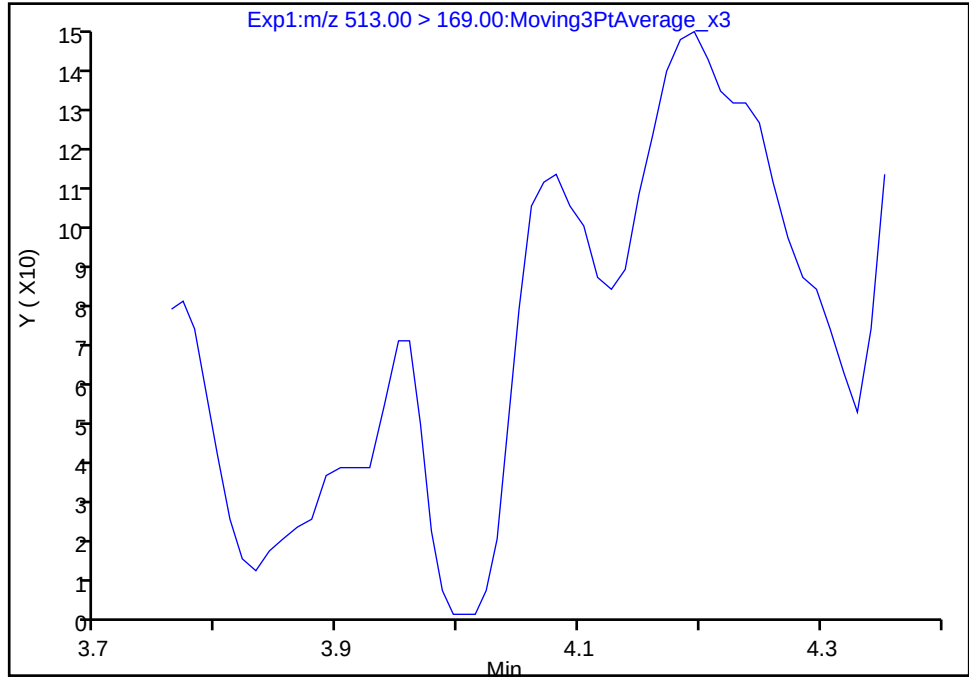
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

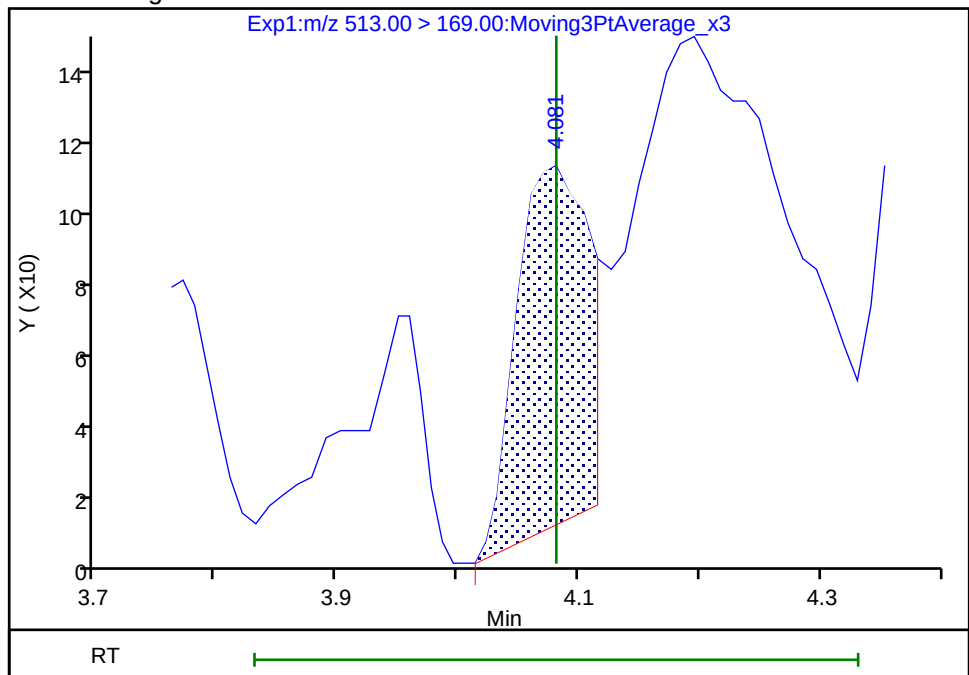
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 405
Amount: 0.001068
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:16:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

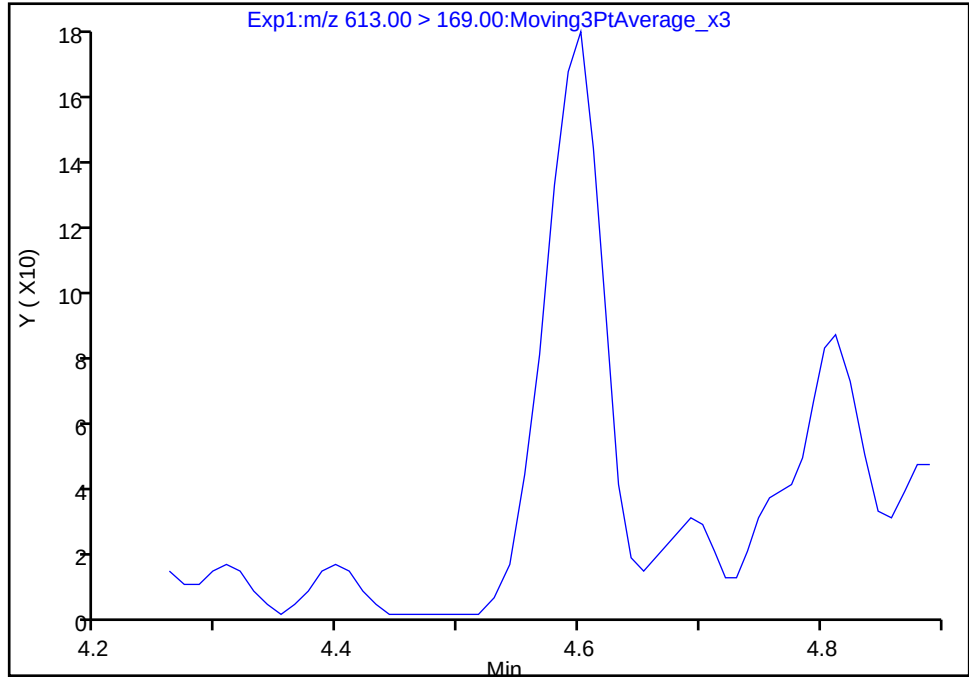
37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

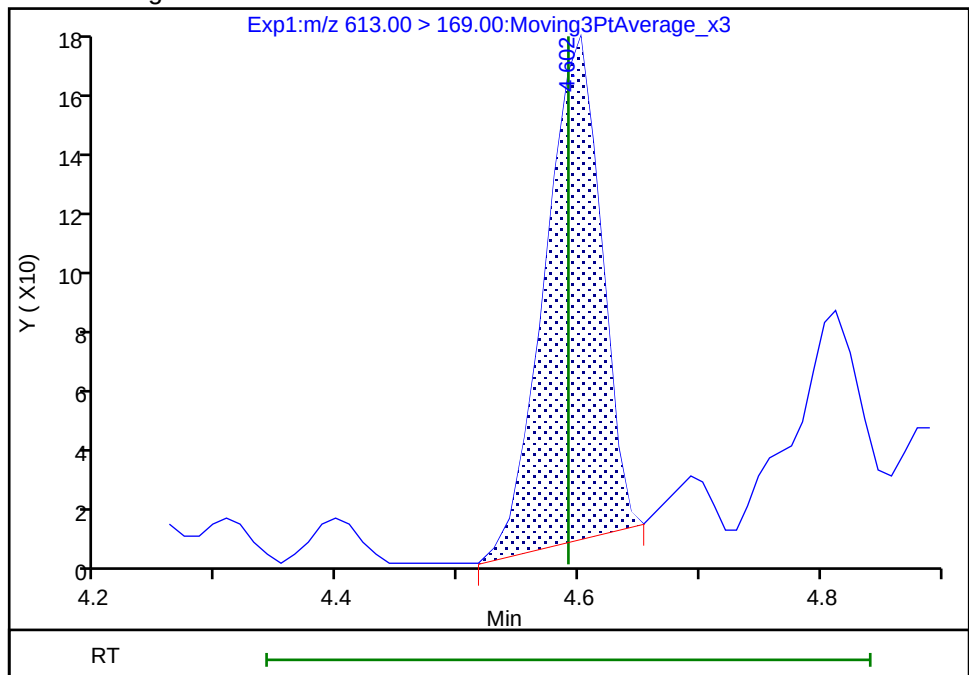
Not Detected

Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.60

Area: 541

Amount: 0.002083

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:17:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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)

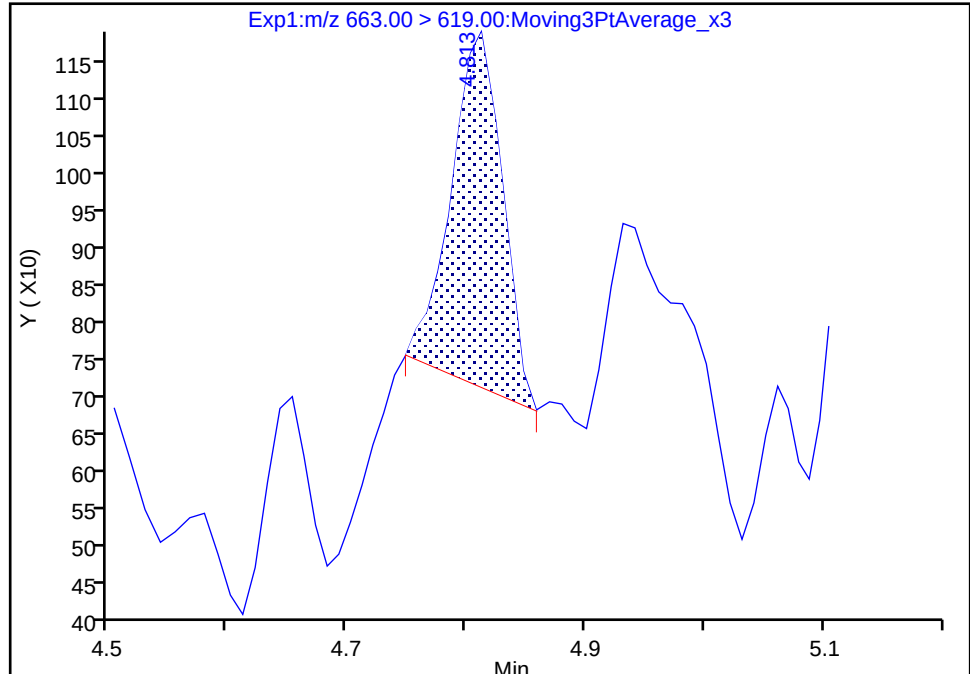
Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

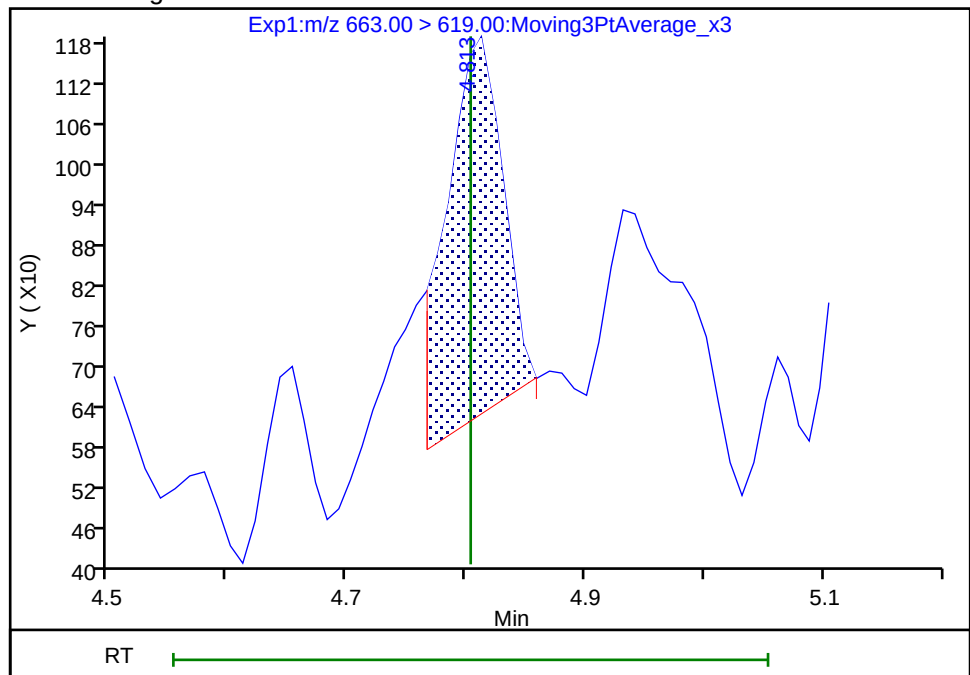
RT: 4.81
Area: 1419
Amount: 0.000756
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1837
Amount: 0.000979
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:18:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

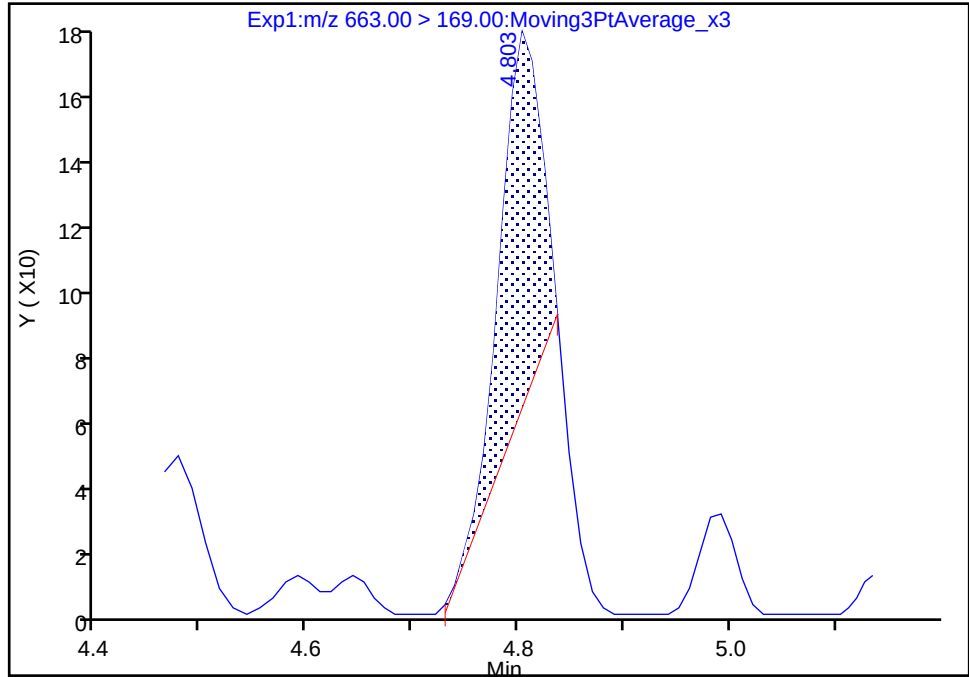
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

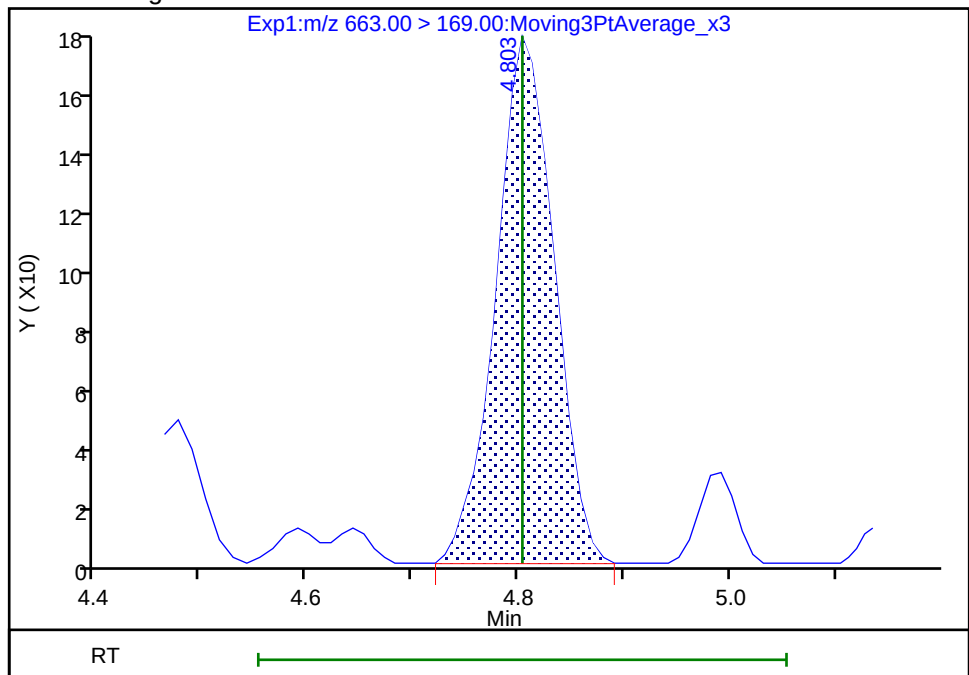
RT: 4.80
Area: 305
Amount: 0.000756
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 686
Amount: 0.000979
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:18:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

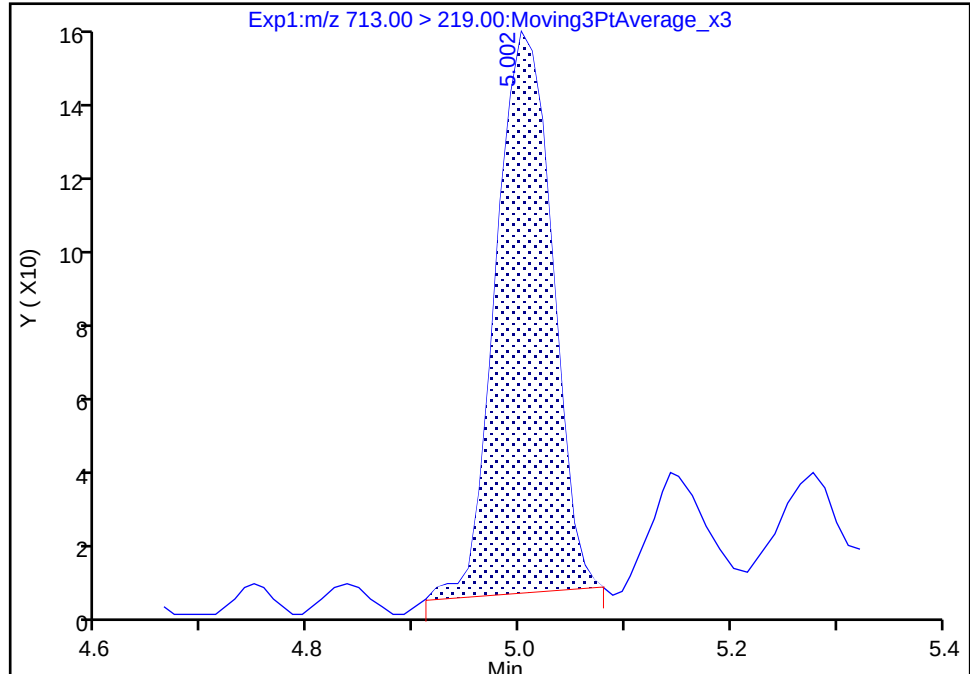
EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

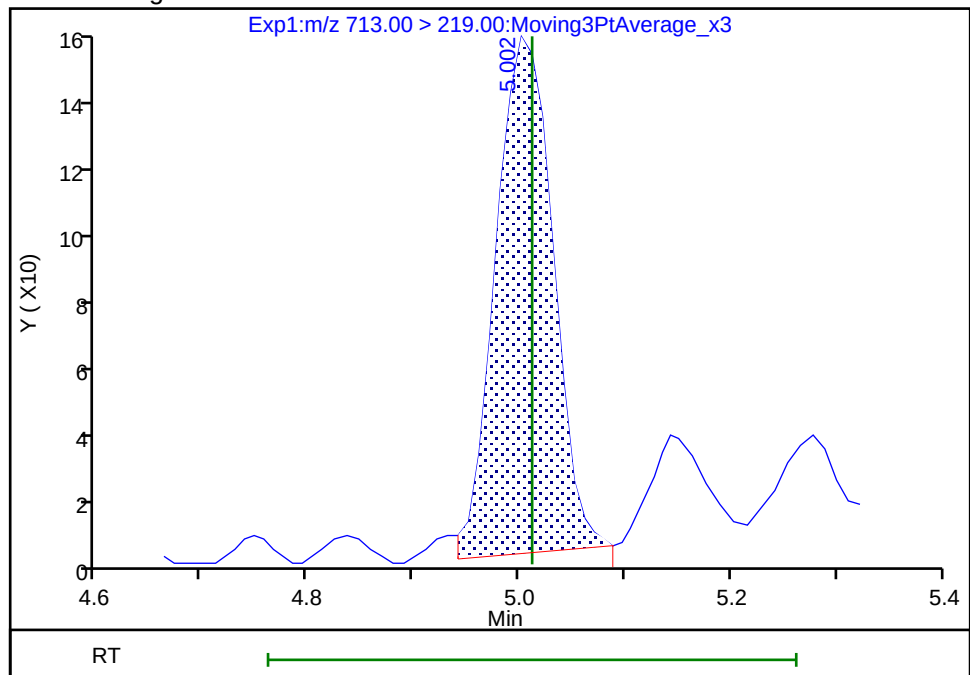
RT: 5.00
Area: 543
Amount: 0.001104
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 562
Amount: 0.001975
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:19:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

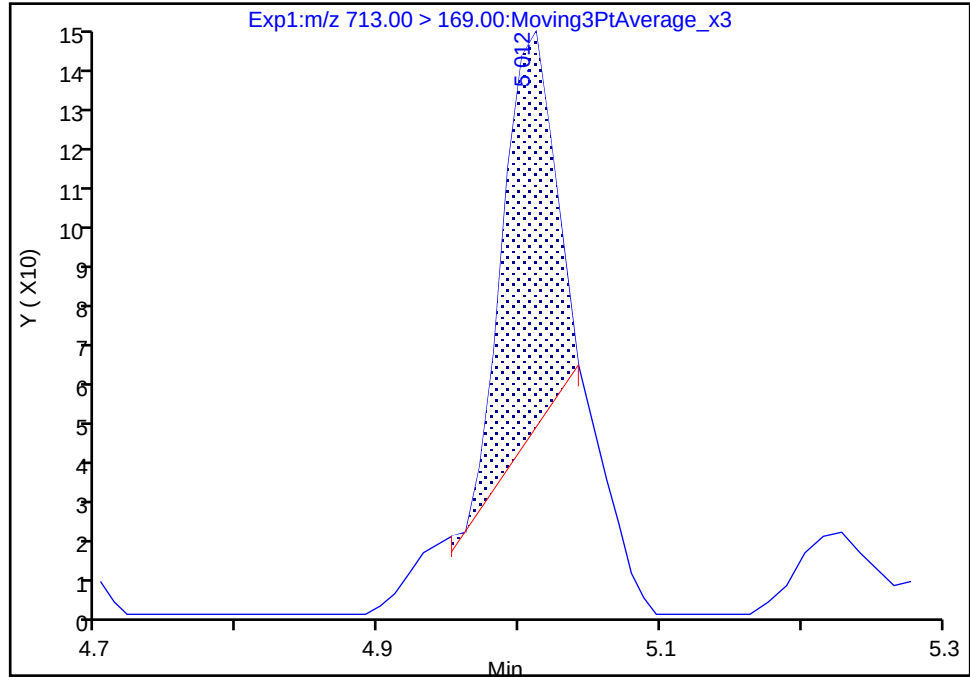
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

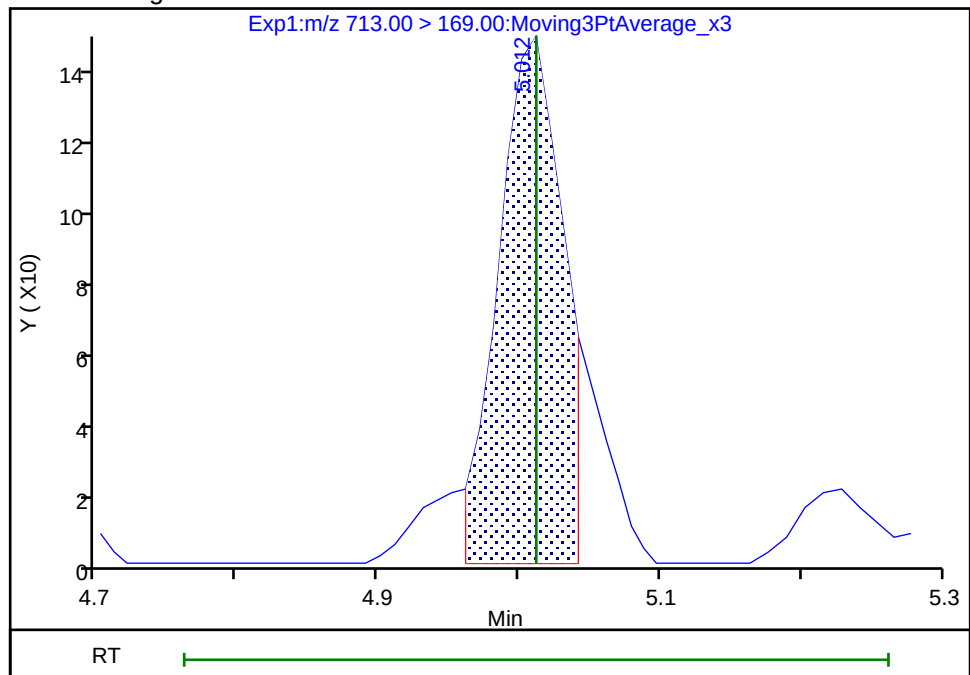
RT: 5.01
Area: 246
Amount: 0.001104
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 440
Amount: 0.001975
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:19:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Data File:	\\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d		
Injection Date:	16-Dec-2022 12:26:00	Instrument ID:	LC812
Lims ID:	MB 200-186742/1-A		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	3 Workli
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

ALS Bottle#:	3	Worklist Smp#:	6
Dil. Factor:	1.0000		
Limit Group:	LC_PFC_ICAL		
Detector	EXP1		

Signal: 1

Not Detected
Expected RT: 2.40

Exp1:m/z 298.90 > 80.00:Moving3PtAverage_x3

Min	Y (X10)
2.05	18
2.15	7
2.18	10
2.25	4
2.35	4
2.43	85
2.55	10
2.65	11
2.70	9

RT: 2.41
Area: 3392
Amount: 0.001811
Amount Units: ng/ml

Exp1:m/z 298.90 > 80.00:Moving3PtAverage_x3

Y (X10)

RT

Min

2.419

Reviewer: nampitakw, 19-Dec-2022 09:13:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

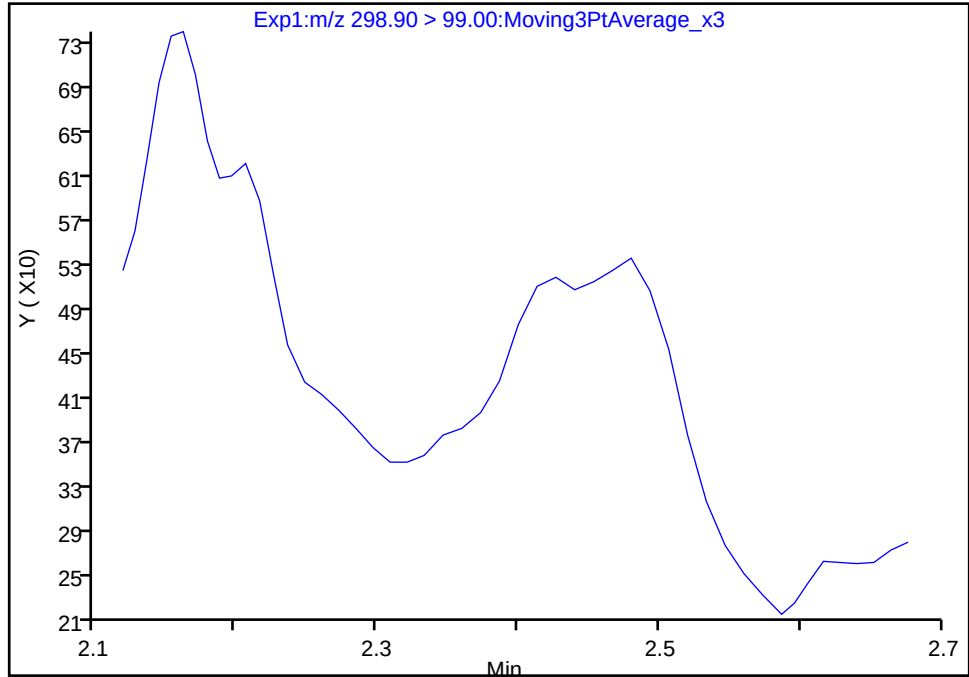
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

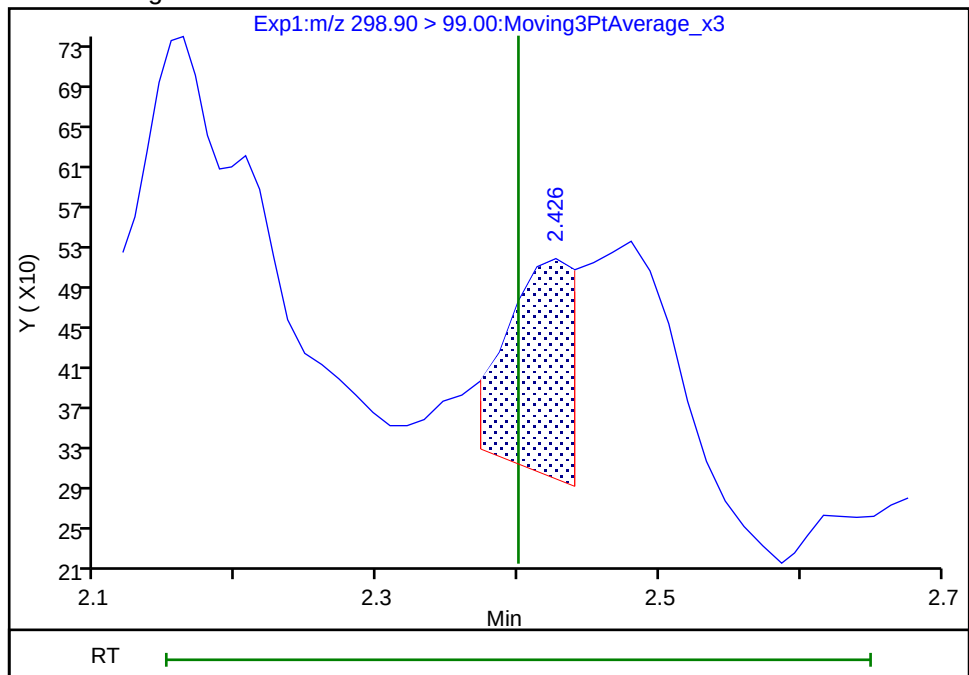
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 659
Amount: 0.001811
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:13:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

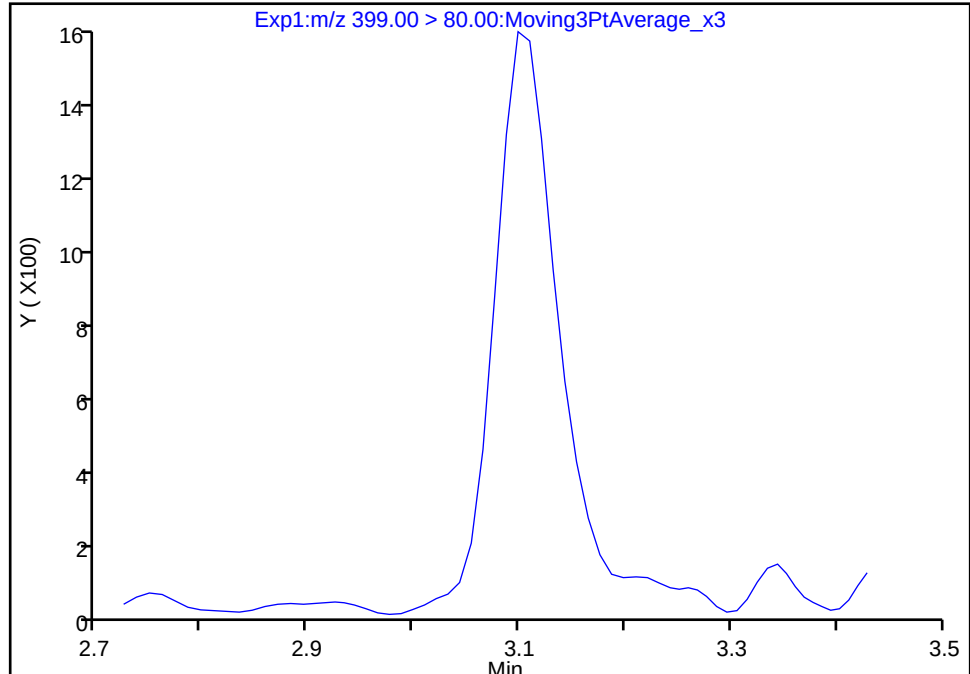
8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

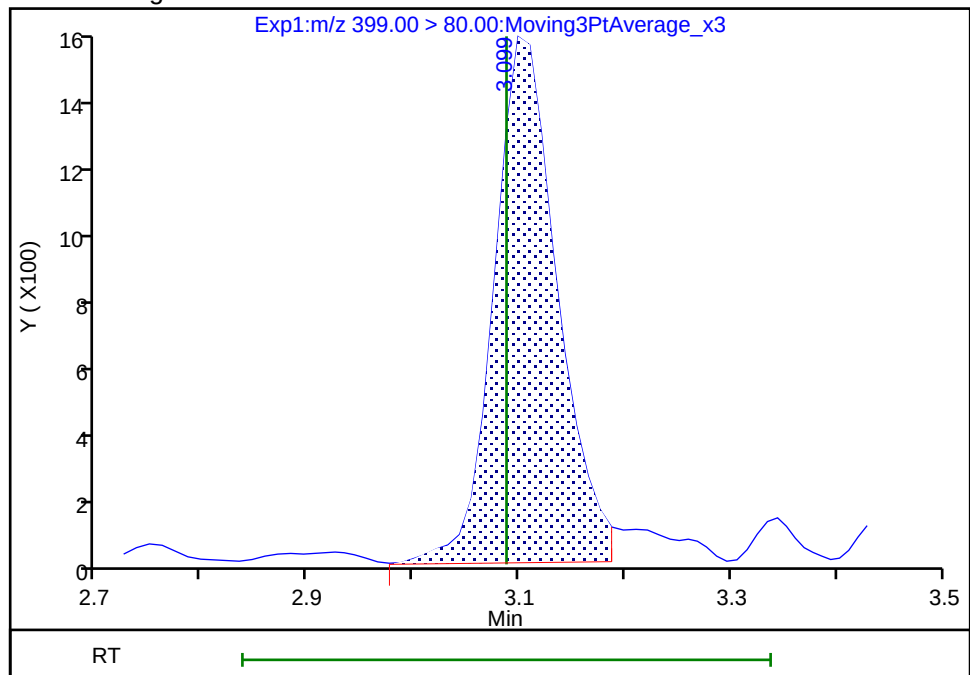
Not Detected

Expected RT: 3.09

Processing Integration Results



Manual Integration Results



RT: 3.10

Area: 6456

Amount: 0.004715

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:14:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

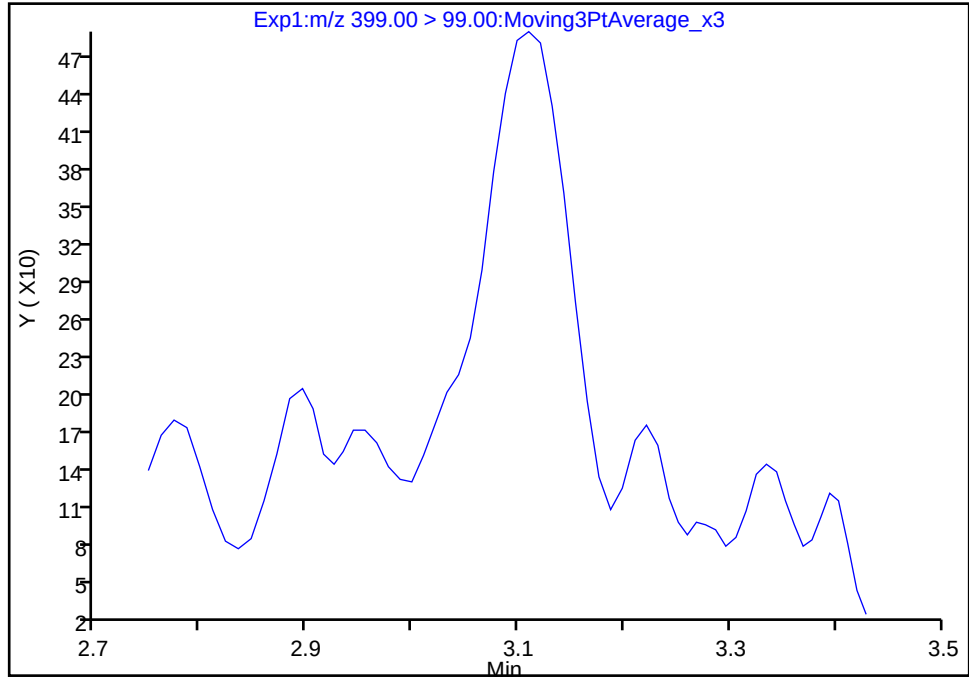
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

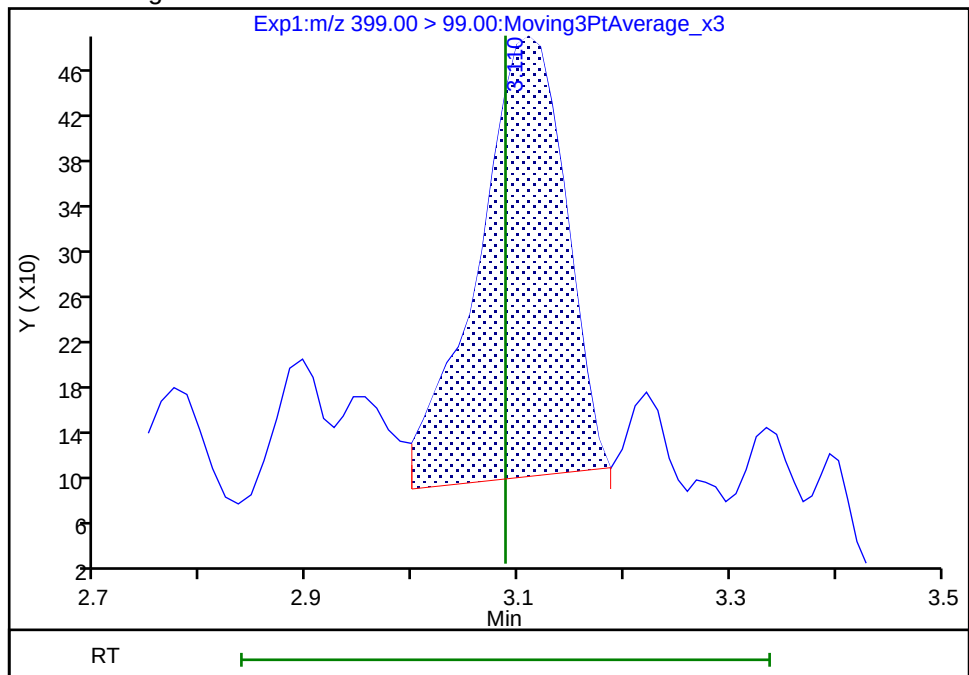
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 2230
Amount: 0.004715
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:14:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

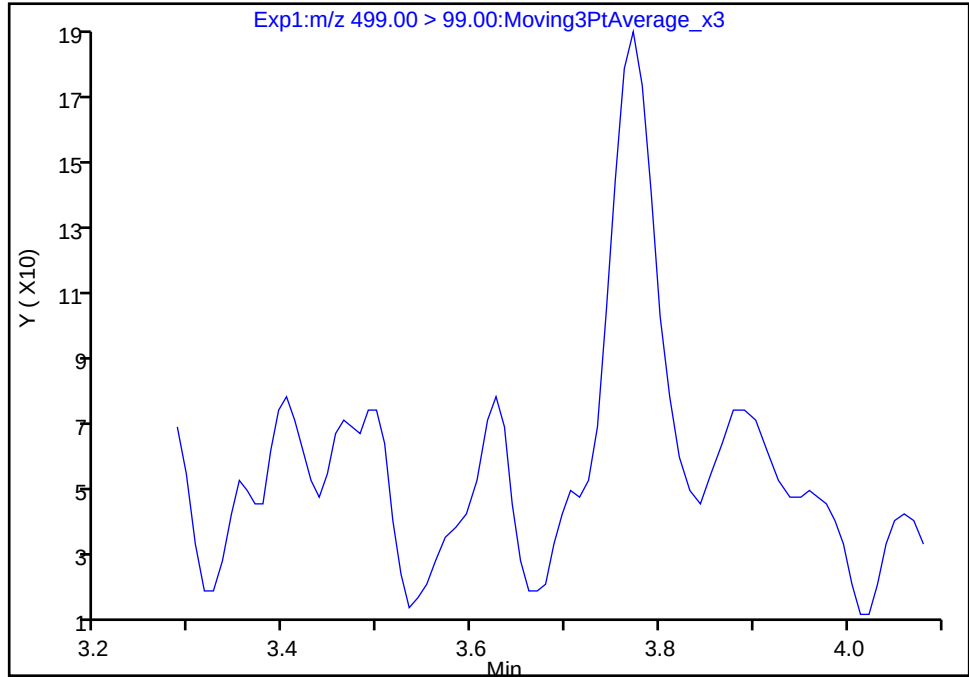
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

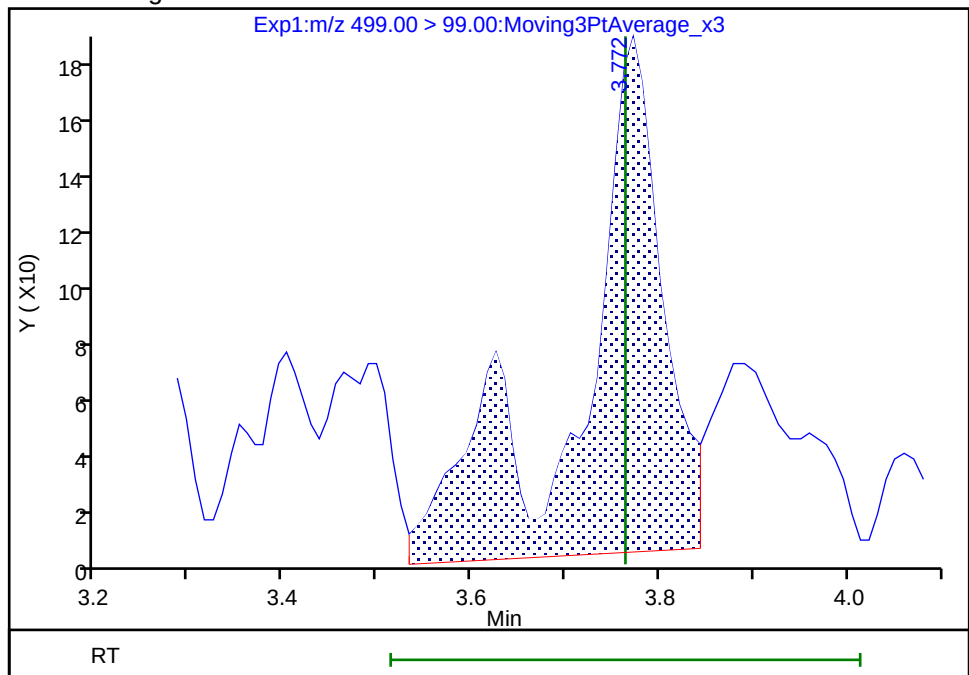
Not Detected
Expected RT: 3.76

Processing Integration Results



RT: 3.77
Area: 1100
Amount: 0.005646
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:15:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

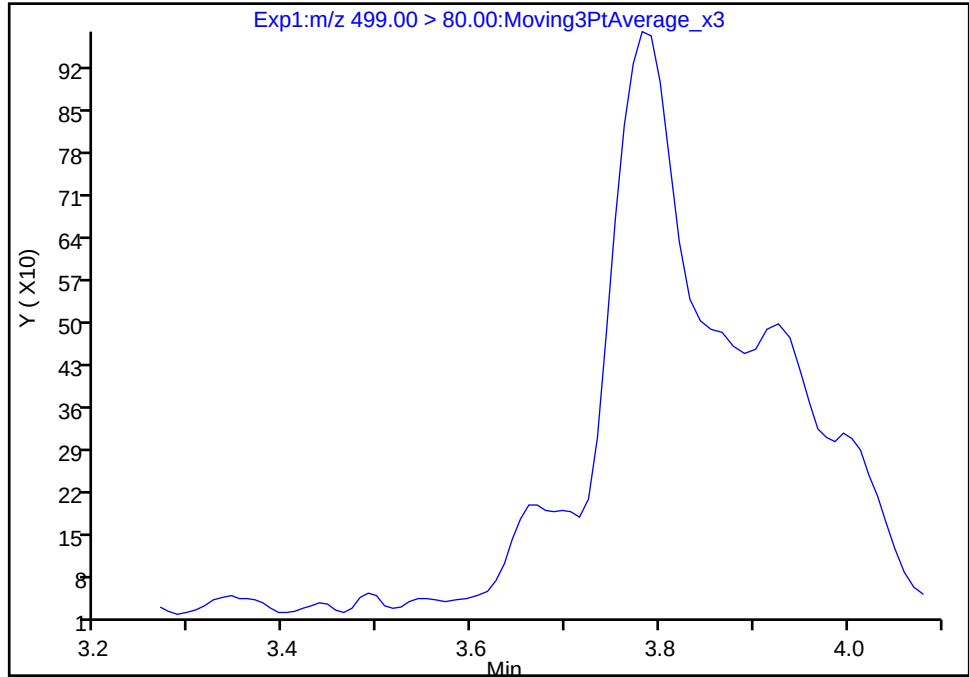
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

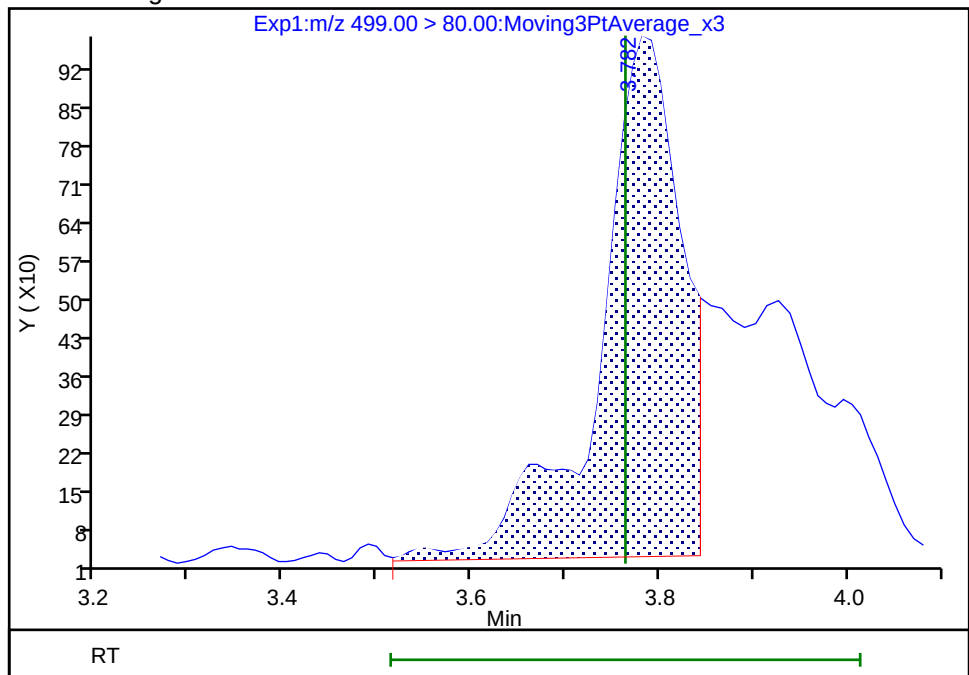
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 5740
Amount: 0.005646
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 09:15:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

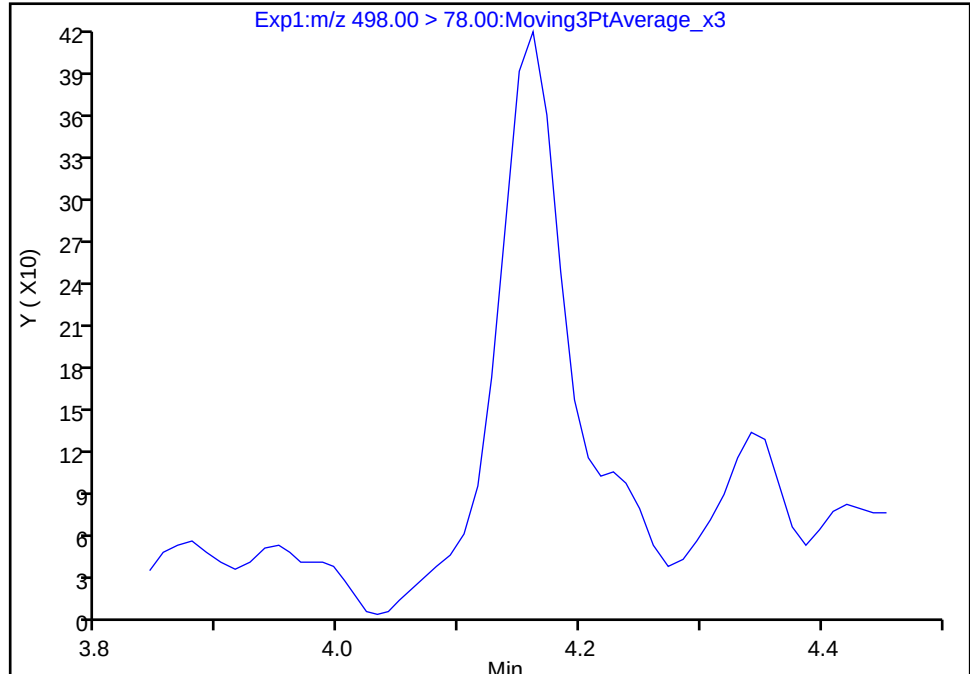
22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

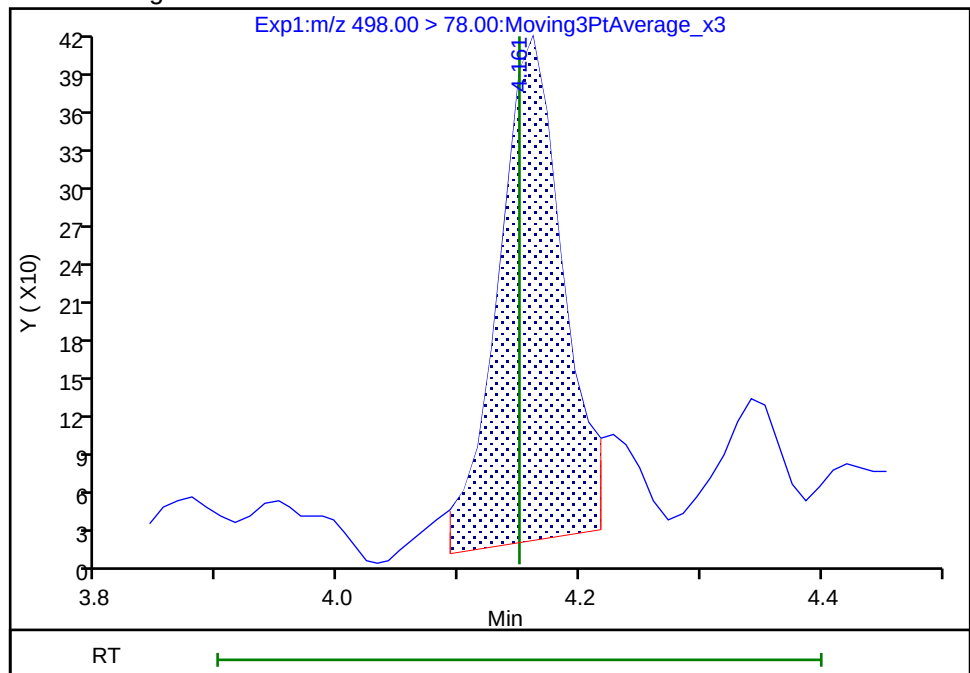
Not Detected

Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.16

Area: 1457

Amount: 0.000966

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:16:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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)

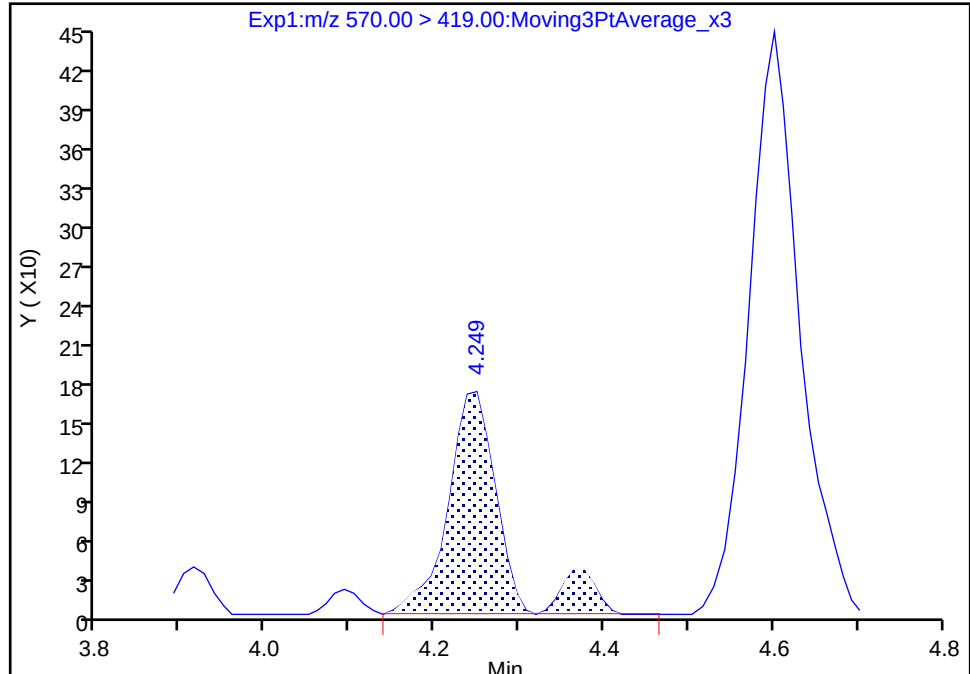
Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

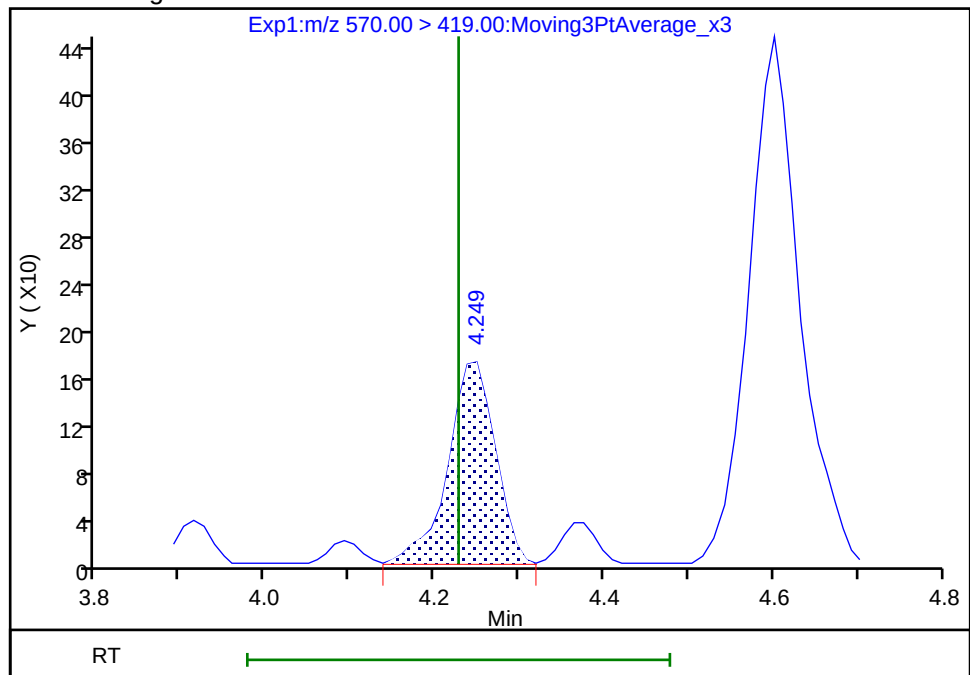
RT: 4.25
Area: 753
Amount: -0.009424
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 655
Amount: -0.009711
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:16:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

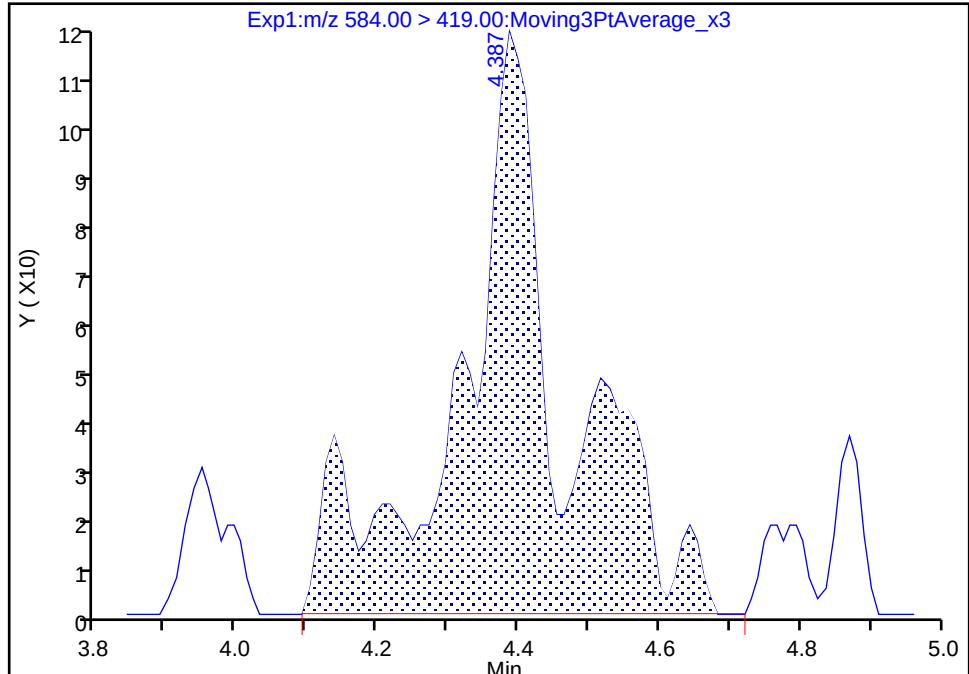
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

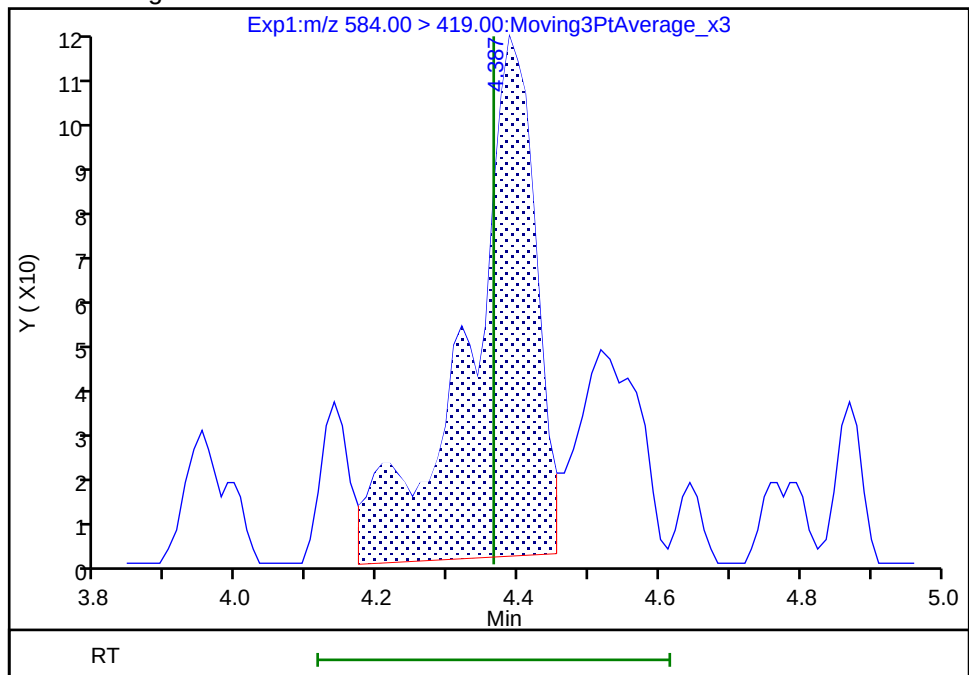
RT: 4.39
Area: 1157
Amount: 0.003334
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 727
Amount: 0.002095
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:17:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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

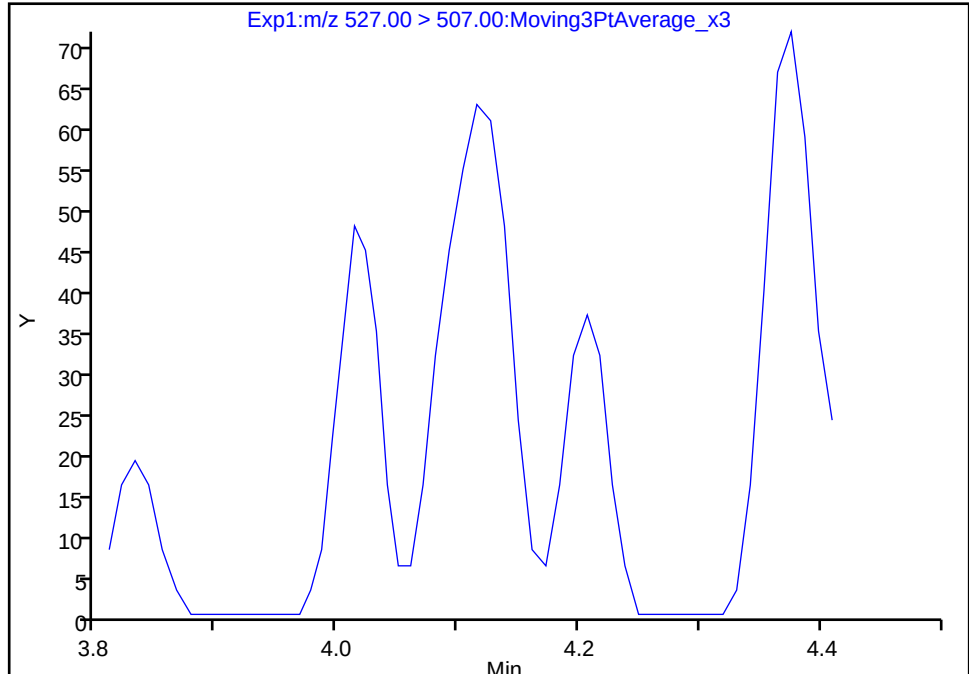
25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

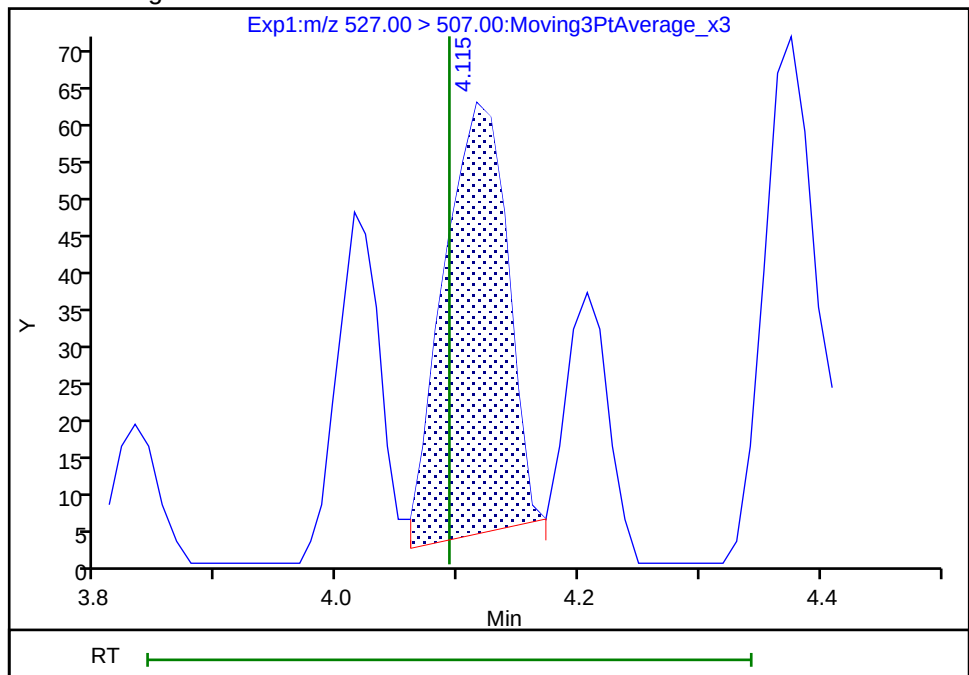
Not Detected

Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.12

Area: 216

Amount: 0.000525

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 09:16:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

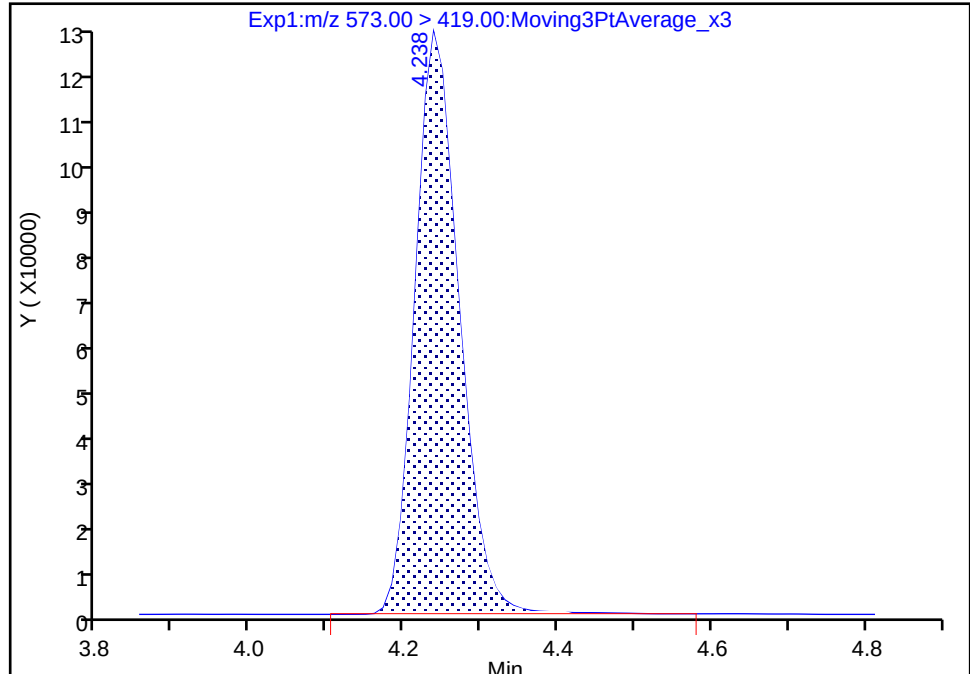
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

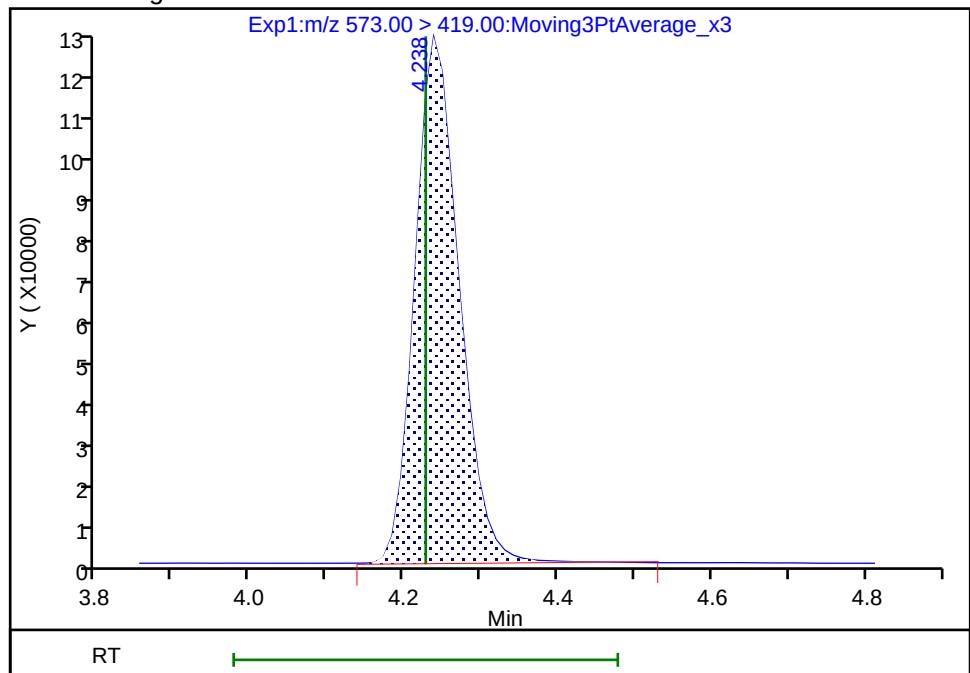
RT: 4.24
Area: 497121
Amount: 1.175003
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 496809
Amount: 1.174265
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:12:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d

Injection Date: 16-Dec-2022 12:26:00

Instrument ID: LC812

Lims ID: MB 200-186742/1-A

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)

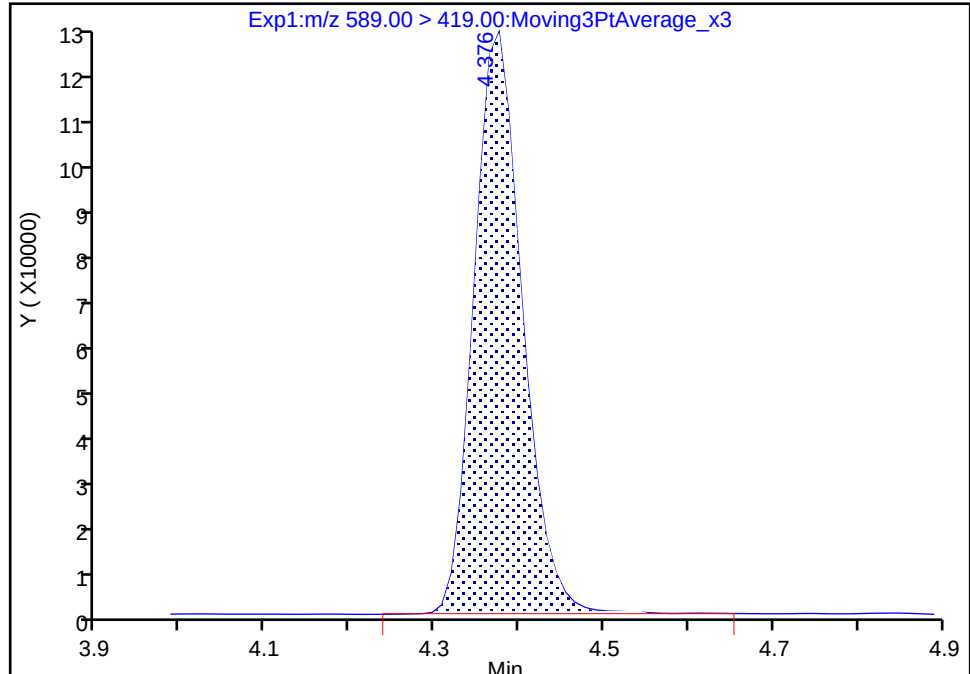
Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

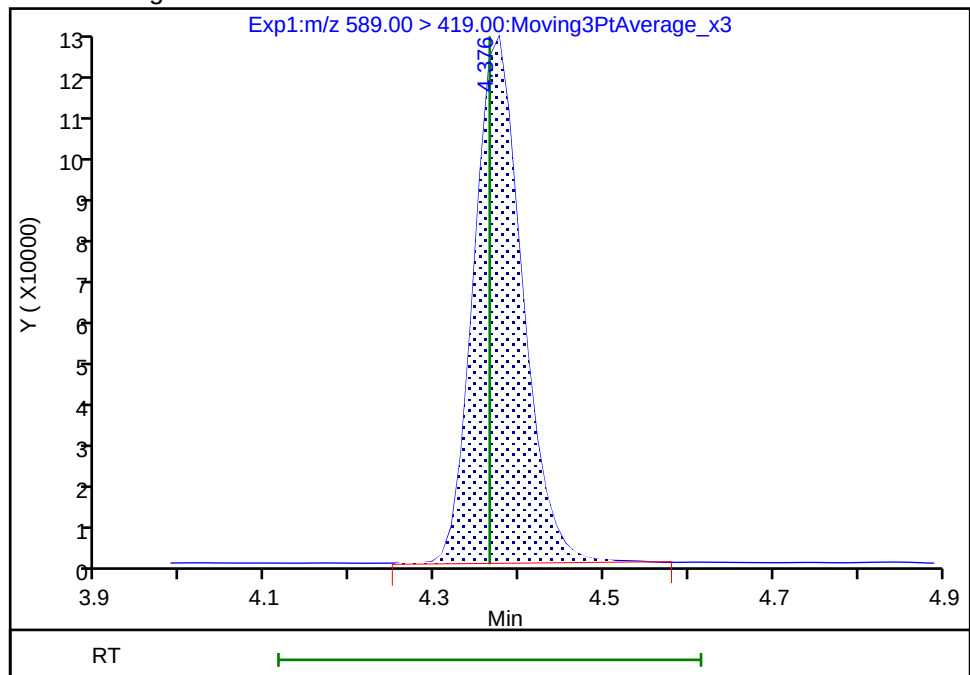
RT: 4.38
Area: 485319
Amount: 1.164986
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 484563
Amount: 1.163171
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:12:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

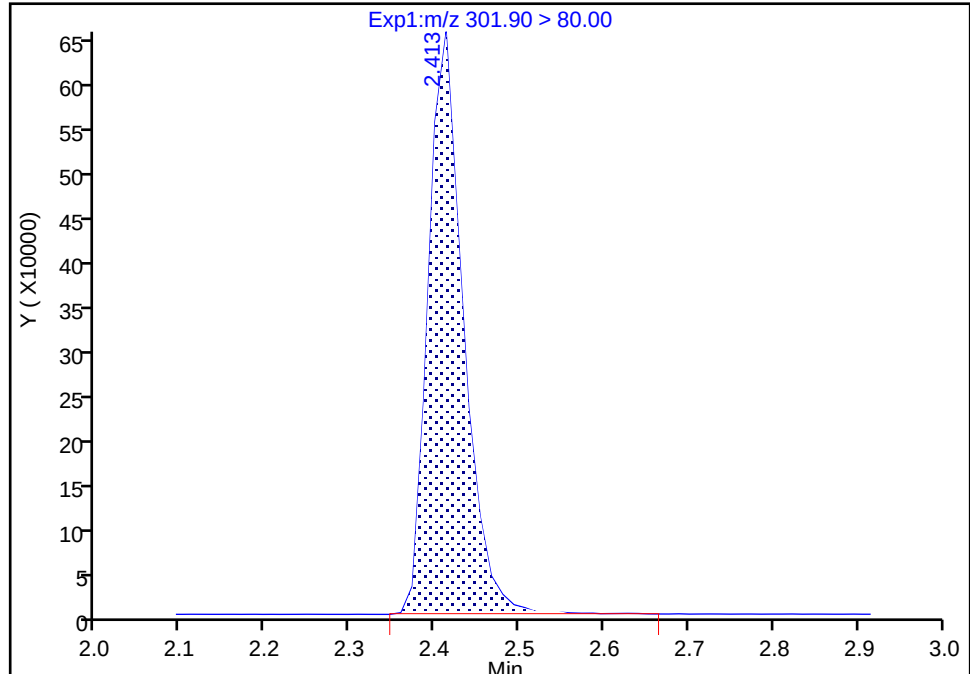
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A06.d
Injection Date: 16-Dec-2022 12:26:00 Instrument ID: LC812
Lims ID: MB 200-186742/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

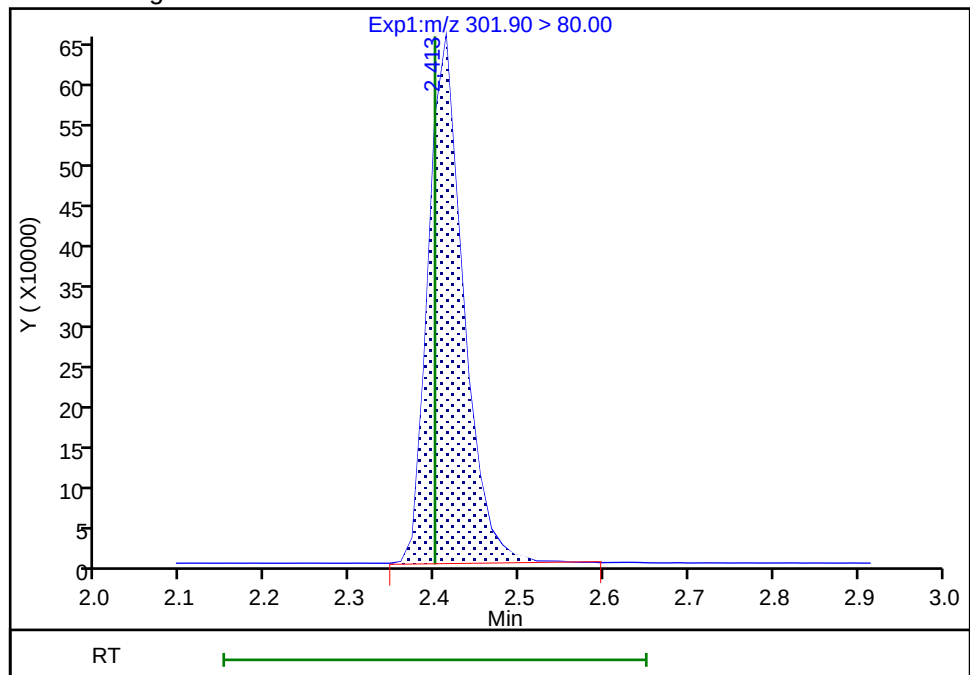
RT: 2.41
Area: 1907946
Amount: 1.013980
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1902631
Amount: 1.011155
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:12:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: CCB 200-186802/4

Matrix: Solid Lab File ID: PA221216A04.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 12:09

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.023
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.048
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.040
27619-97-2	6:2 FTS	0.13	U	0.13	0.032
39108-34-4	8:2 FTS	0.050	U	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-186802/4
 Matrix: Solid Lab File ID: PA221216A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 12:09
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 186802 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	99		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	102		50-150
STL00991	13C4 PFOS	100		50-150
STL00995	13C5 PFNA	103		50-150
STL00992	13C4 PFBA	90		50-150
STL00993	13C2 PFHxA	94		50-150
STL00996	13C2 PFDA	102		50-150
STL00997	13C2 PFUnA	104		50-150
STL00998	13C2 PFDoA	103		50-150
STL01056	13C8 FOSA	99		50-150
STL01893	13C5 PFPeA	98		50-150
STL02116	13C2 PFTeDA	112		50-150
STL02118	d3-NMeFOSAA	101		50-150
STL02117	d5-NEtFOSAA	103		50-150
STL02279	M2-6:2 FTS	95		50-150
STL02280	M2-8:2 FTS	96		50-150
STL02337	13C3 PFBS	99		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 16-Dec-2022 12:09:39 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0053717-004 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:10:25 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 08:58:51

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	2.085	2.076	0.009	0.603	2604058	1.13		90.5	8721	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.103	2.076	0.027	1.008	8673	0.004037			1.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.402	2.387	0.015	0.694	2140579	1.22		97.6	3594	
D 47 13C3 PFBS										
301.90 > 80.00	2.415	2.400	0.015	0.698	2190982	1.15		98.9	249904	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.428	2.400	0.028	1.006	2647	0.001228	Target=2.09		3.2	M
298.90 > 99.00	2.428	2.400	0.028	1.006	1597		1.66(1.04-3.13)		1.0	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.704	2.689	0.015	0.782	190453	1.13		96.9	214	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.740	2.725	0.015	0.792	2158385	1.17		94.0	1883	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.825	2.835	-0.010	0.991	109	0.000331			1.2	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.850	2.835	0.015	0.824	389934	1.20		96.2	1017	
D 11 18O2 PFHxS										
403.00 > 84.00	3.101	3.088	0.013	0.897	1629964	1.17		99.3	2440	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.101	3.088	0.013	1.000	6662	0.004282	Target=3.66		36.4	M
399.00 > 99.00	3.112	3.088	0.024	1.004	2617		2.55(1.83-5.49)		6.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.101	3.099	0.002	0.897	2368559	1.25		100	3092	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.101	3.099	0.002	1.000	1206	0.000585	Target=3.97	0.3		M
363.00 > 169.00	3.101	3.099	0.002	1.000	374		3.22(1.98-5.95)	1.4		M
77 DONA										RM
377.00 > 251.00	3.146	3.132	0.014	0.835	1560	0.000300	Target=3.16	2.6		RM
377.00 > 85.00	3.123	3.132	-0.009	0.829	38		41.05(1.58-4.73)	0.2		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.439	0.011	0.997	262854	1.13		95.1	789	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.439	0.011	1.000	254	-0.0113		1.2		M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.441	3.439	0.002	0.913	331	0.000251	Target=5.14	2.4		RM
449.00 > 99.00	3.450	3.439	0.011	0.916	212		1.56(2.57-7.72)	2.4		M
D 14 13C4 PFOA										
417.00 > 372.00	3.459	3.448	0.011	1.000	2697153	1.27		102	5562	
* 62 13C2 PFOA										
415.00 > 370.00	3.459	3.448	0.011		2566482	1.25			5646	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.433	3.448	-0.015	0.992	1317	0.000571	Target=2.79	0.1		M
413.00 > 169.00	3.459	3.448	0.011	1.000	696		1.89(1.40-4.19)	1.5		M
D 18 13C4 PFOS										
503.00 > 80.00	3.767	3.764	0.003	1.089	1129401	1.20		100	6321	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.767	3.764	0.003	1.000	2945	0.002562	Target=5.11	3.1		M
499.00 > 99.00	3.786	3.764	0.022	1.005	703		4.19(2.55-7.66)	2.1		M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.786	3.783	0.003	1.000	1539	0.000695	Target=8.55	0.6		RM
463.00 > 169.00	3.805	3.783	0.022	1.005	411		3.74(4.28-12.83)	4.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.783	0.003	1.095	2666666	1.29		103	3845	
D 23 13C2 PFDA										
515.00 > 470.00	4.096	4.081	0.015	1.184	2676172	1.27		102	2857	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.096	4.081	0.015	1.000	818	0.000352	Target=10.26	0.6		RM
513.00 > 169.00	4.084	4.081	0.003	0.997	258		3.17(5.13-15.38)	1.3		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.096	4.093	0.003	1.184	326557	1.15		95.8	1142	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.093	0.003	1.000	431	0.000977		8.3		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.141	4.150	-0.009	0.997	483	0.000271		2.8		M
D 21 13C8 FOSA										M
506.00 > 78.00	4.153	4.150	0.003	1.201	2135102	1.24		99.0	1852	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.231	4.228	0.003	1.223	540761	1.26		101	1805	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.242	4.228	0.014	1.003	332	-0.0107		1.5		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.335	4.331	0.004	1.151	277	0.000404	Target=2.51	6.1		M
599.00 > 99.00	4.335	4.331	0.004	1.151	137		2.02(1.25-3.76)	2.6		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.368	4.353	0.015	1.263	2513269	1.30		104	3111	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.289	4.365	-0.076	0.982	218	0.000563		3.5		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.368	4.365	0.003	1.263	541066	1.28		103	1394	
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.457	4.454	0.003	1.183	790	0.000194		4.9		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.603	4.591	0.012	1.331	2537311	1.29		103	2996	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.634	4.612	0.022	1.132	132	0.000498		3.2		M
75 Perfluorododecanesulfonic acid (										RM
699.00 > 80.00	4.787	4.776	0.011	1.271	113	0.000390	Target=0.50	1.7		RM
699.00 > 99.00	4.778	4.776	0.002	1.268	83		1.36(0.25-0.76)	2.0		M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.814	4.804	0.010	1.046	1512	0.000735	Target=5.21	0.2		M
663.00 > 169.00	4.814	4.804	0.010	1.046	329		4.60(2.60-7.81)	2.2		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.023	5.012	0.011	1.002	450	0.001726	Target=0.89	3.8		M
713.00 > 219.00	5.023	5.012	0.011	1.002	748		0.60(0.44-1.33)	6.7		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.013	5.012	0.001	1.449	2380211	1.40		112	8201	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.379	5.367	0.012	1.000	28102	-0.004097	Target=5.65	2.8		M
813.00 > 169.00	5.379	5.367	0.012	1.000	4808		5.84(2.82-8.47)	31.1		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.379	5.367	0.012	1.555	2942638	1.40		112	4103	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.741	5.722	0.019	1.067	2824	0.001457	Target=6.24	0.4		M
913.00 > 169.00	5.732	5.722	0.010	1.066	315		8.97(3.12-9.36)	4.8		M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d

Injection Date: 16-Dec-2022 12:09:39

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

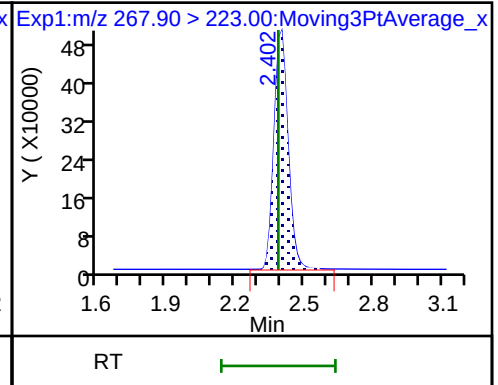
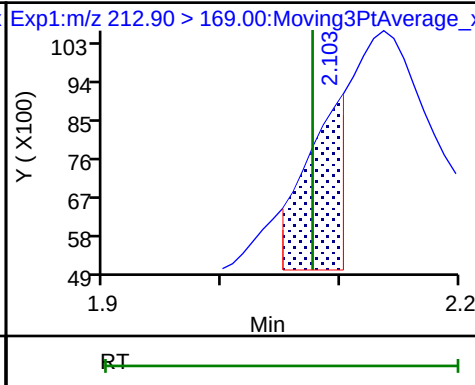
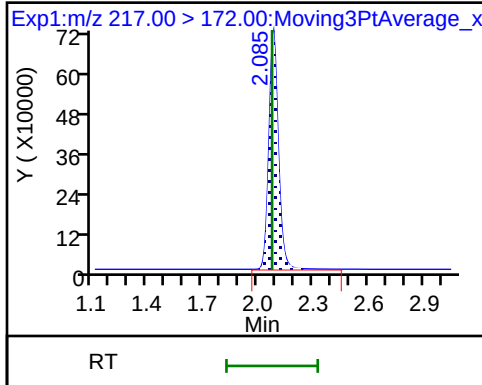
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

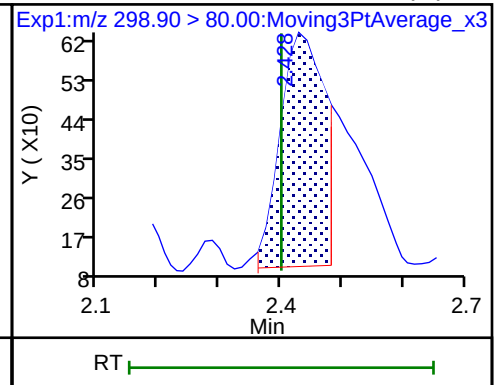
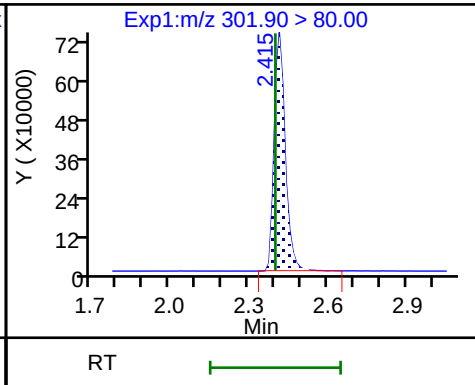
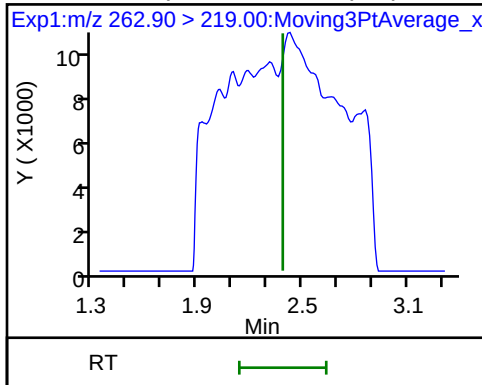
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS

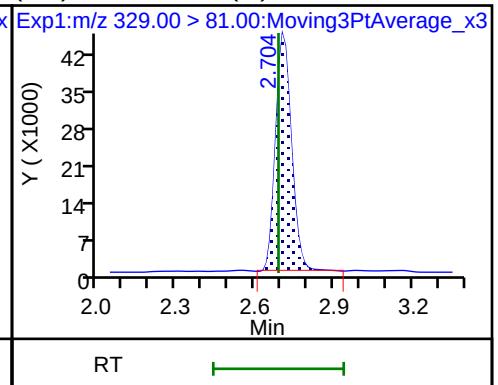
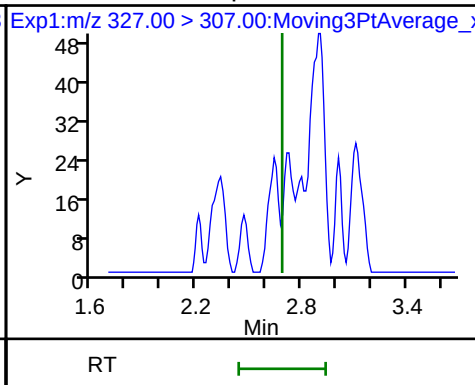
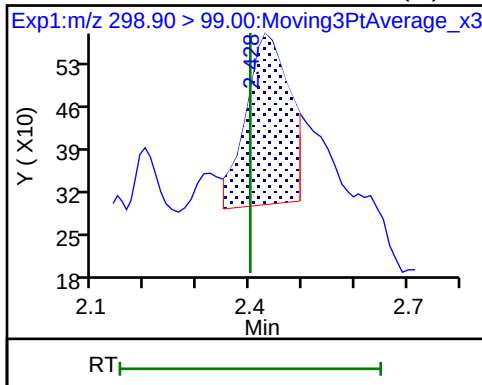
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonic acid (ND)

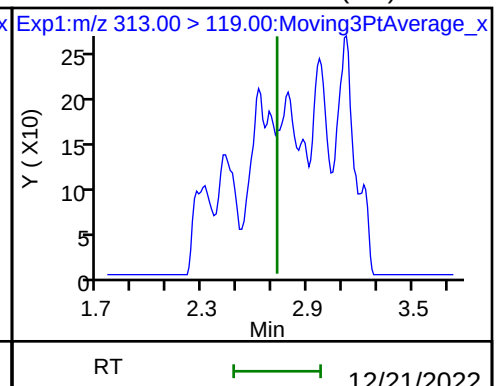
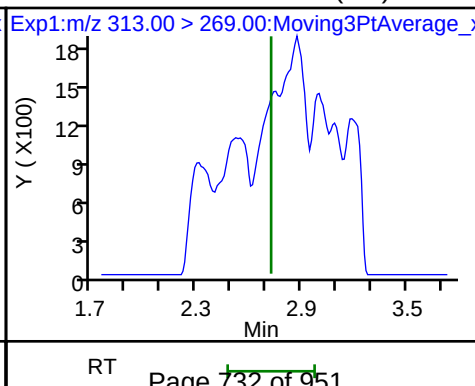
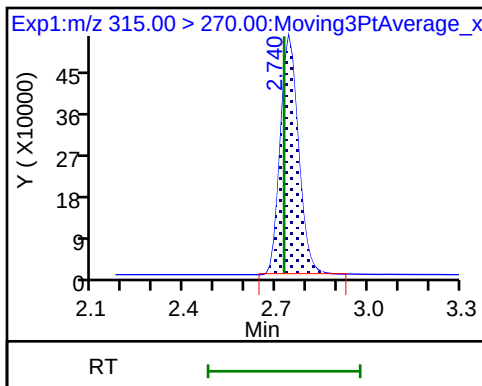
D 10 M2-4:2 FTS (M)



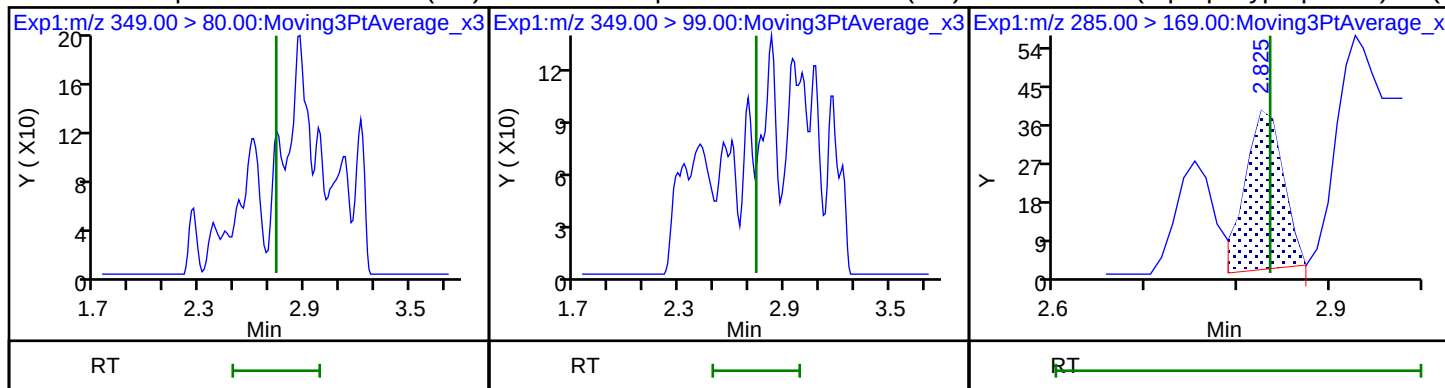
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



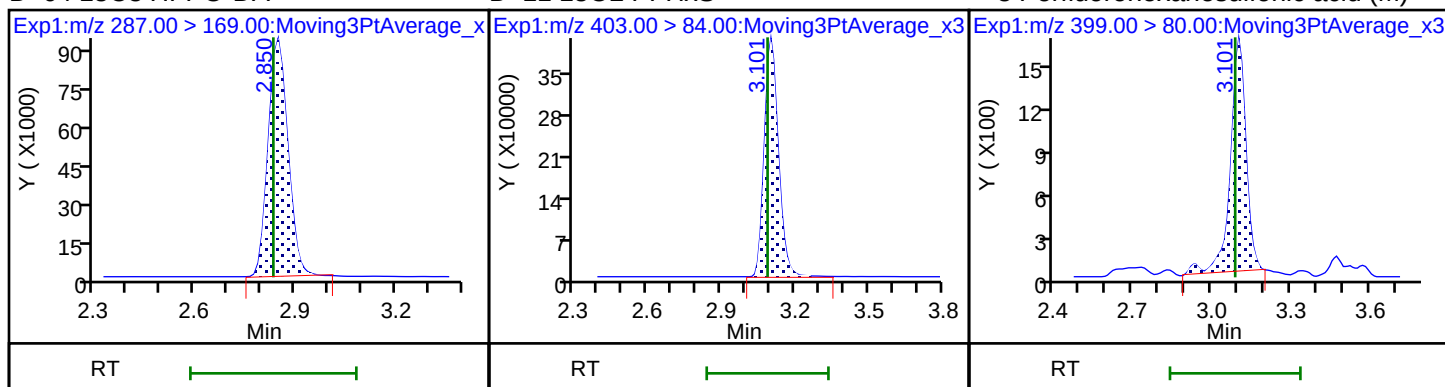
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

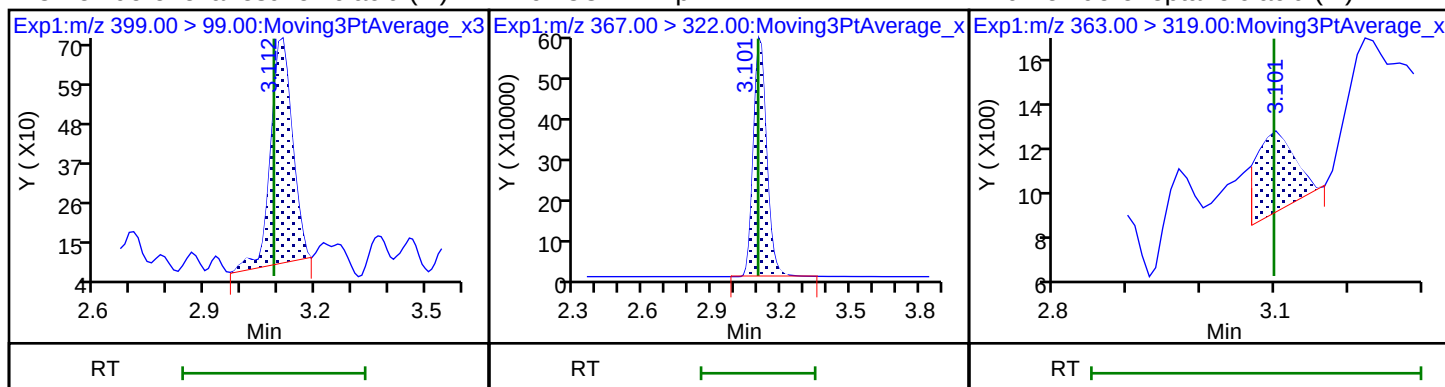
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpa

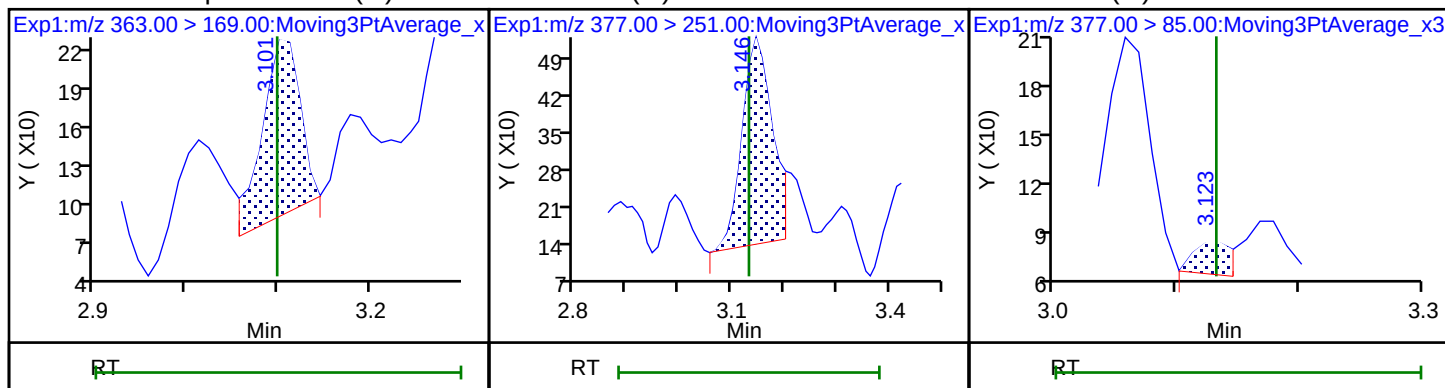
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

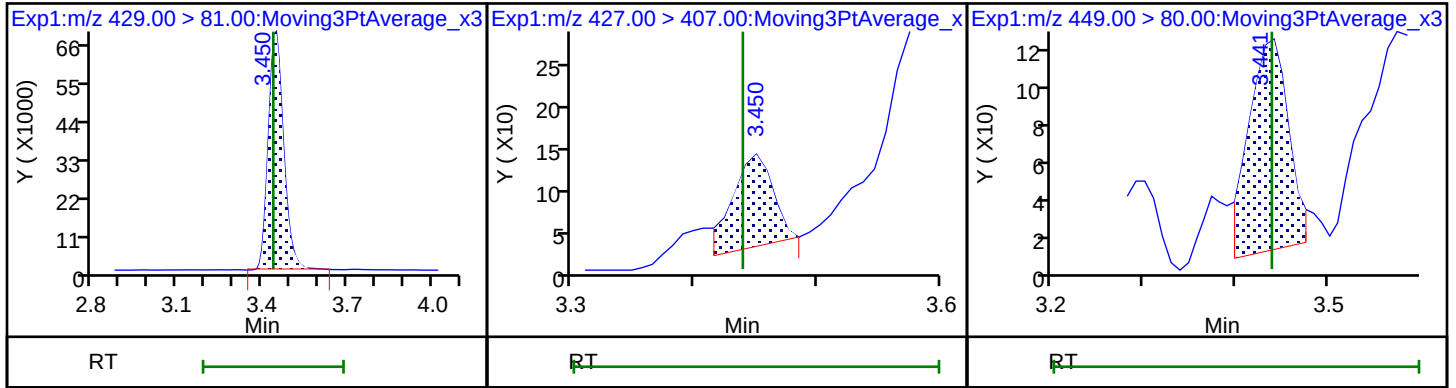
77 DONA (M)

77 DONA (M)



D 12 M2-6:2 FTS

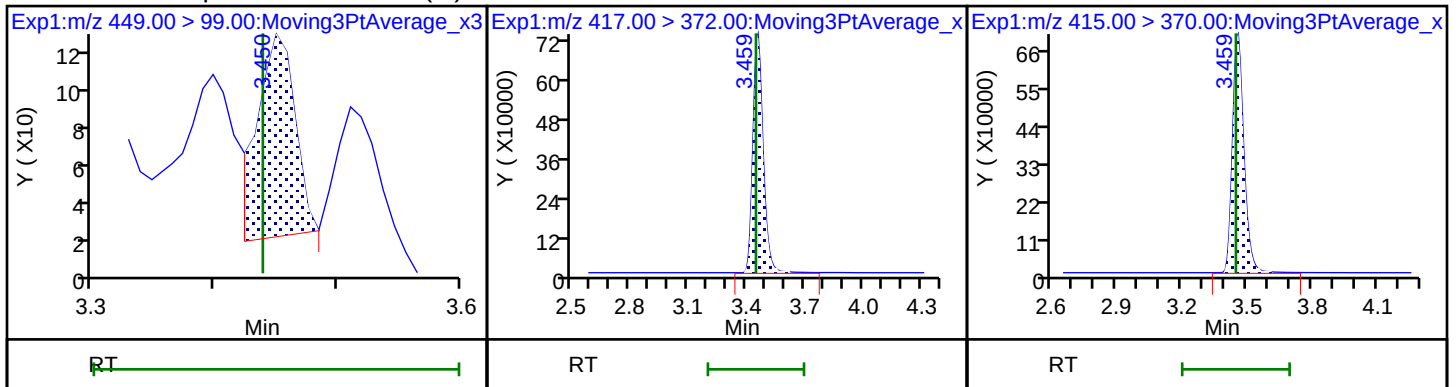
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

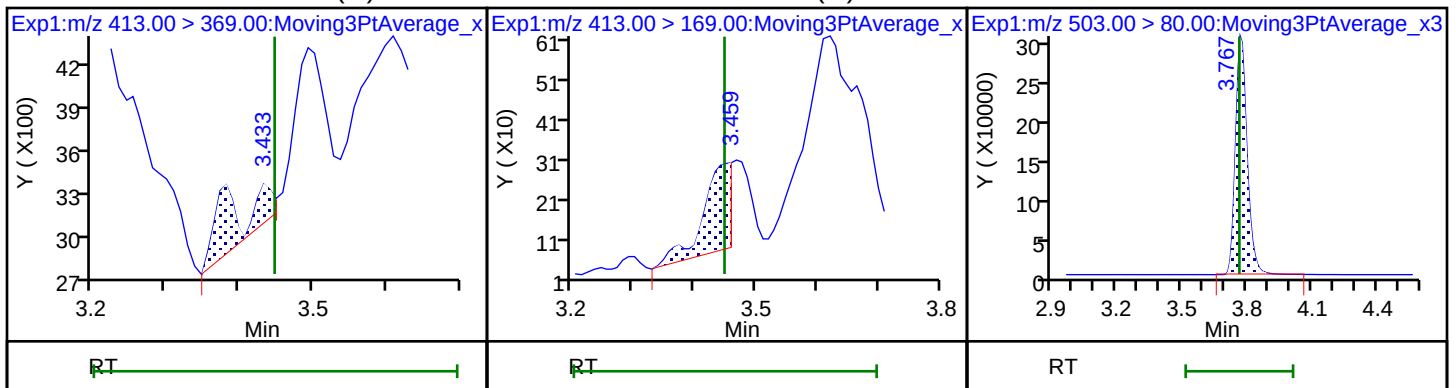
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

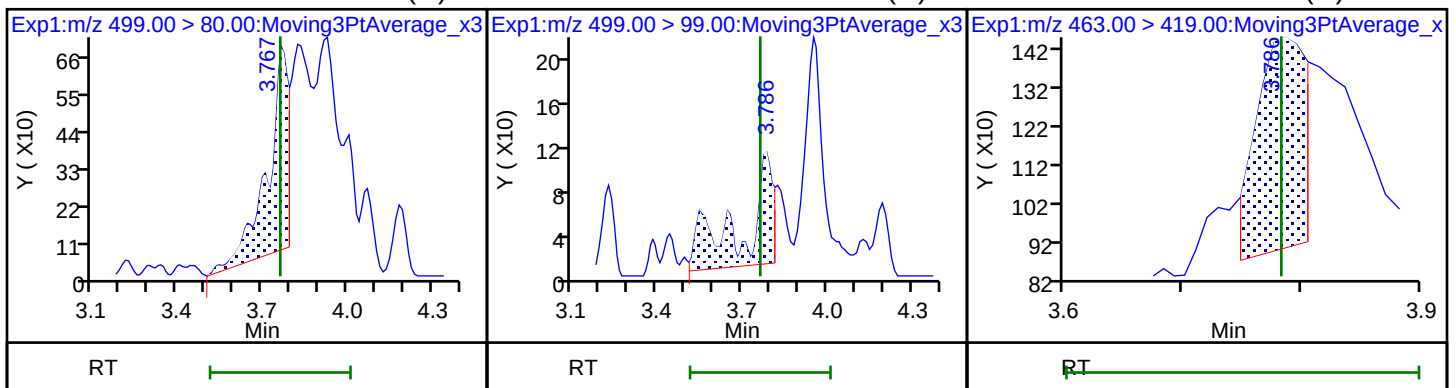
D 18 13C4 PFOS

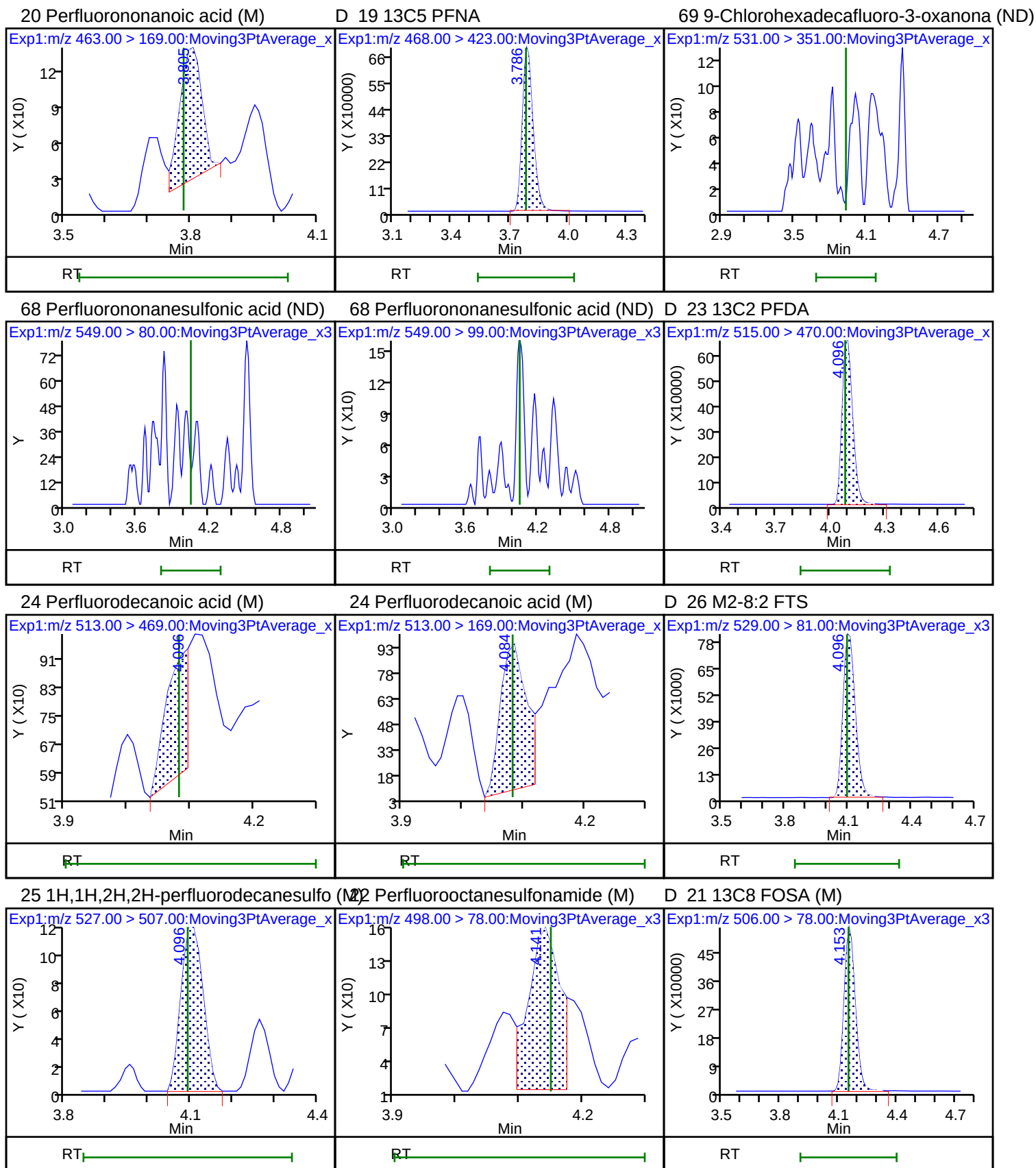


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

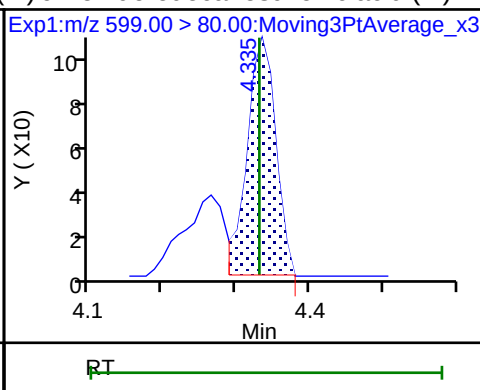
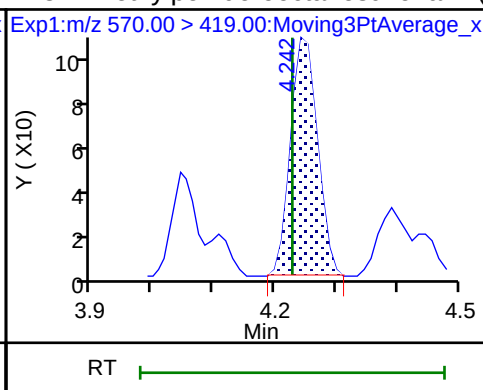
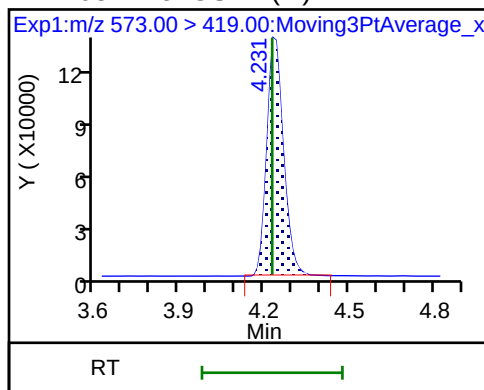




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

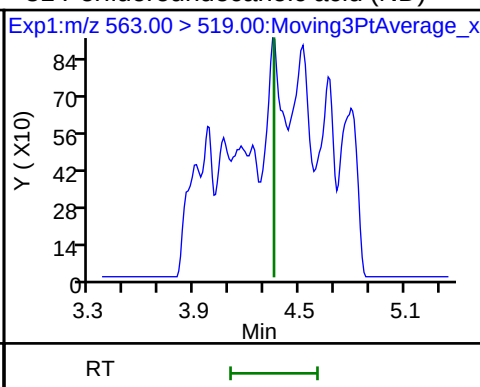
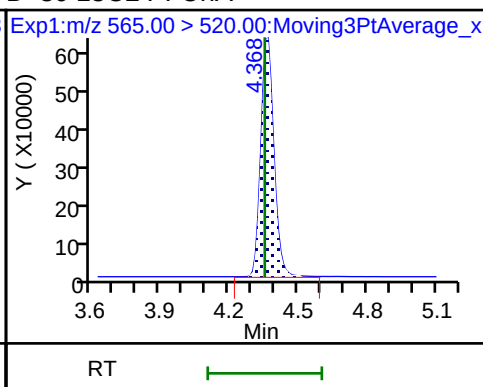
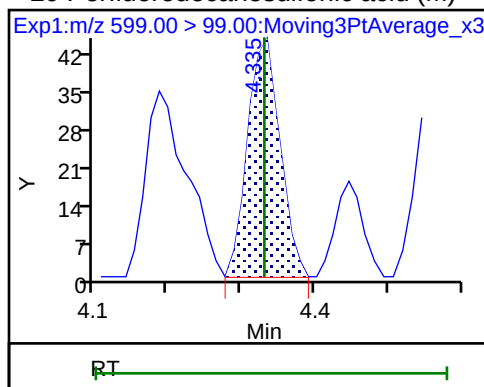
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

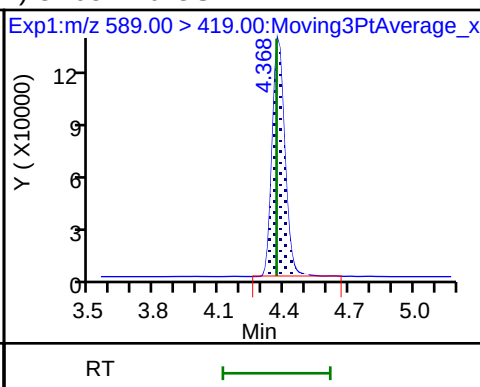
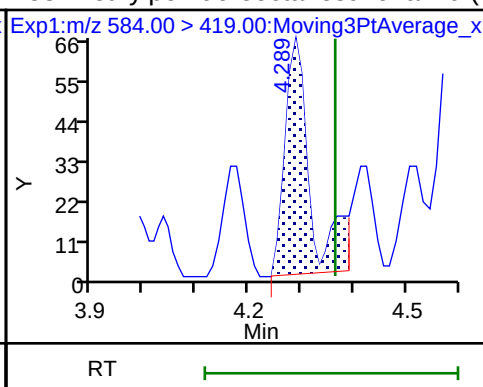
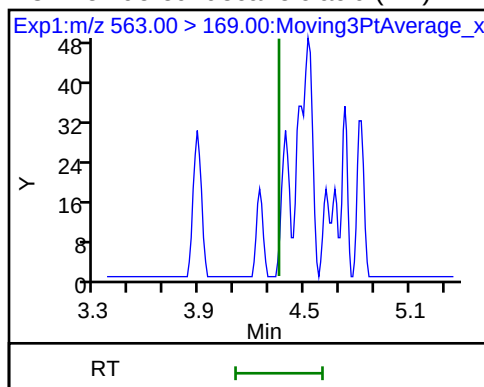
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

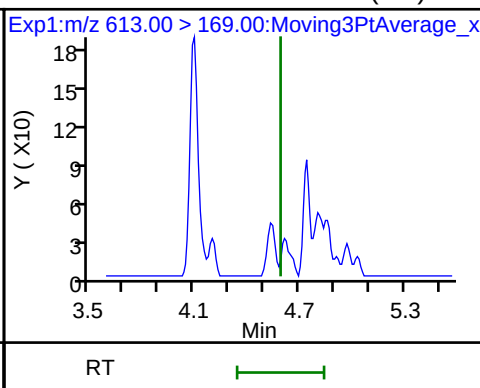
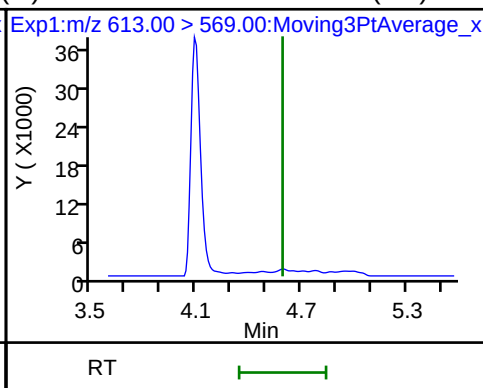
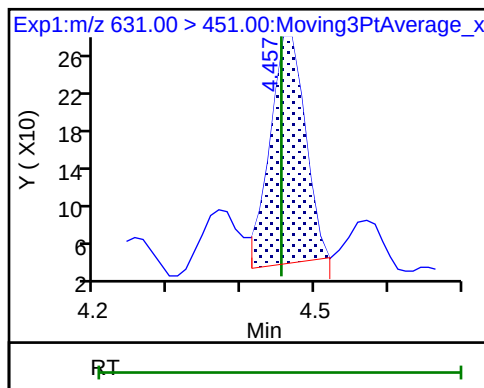
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

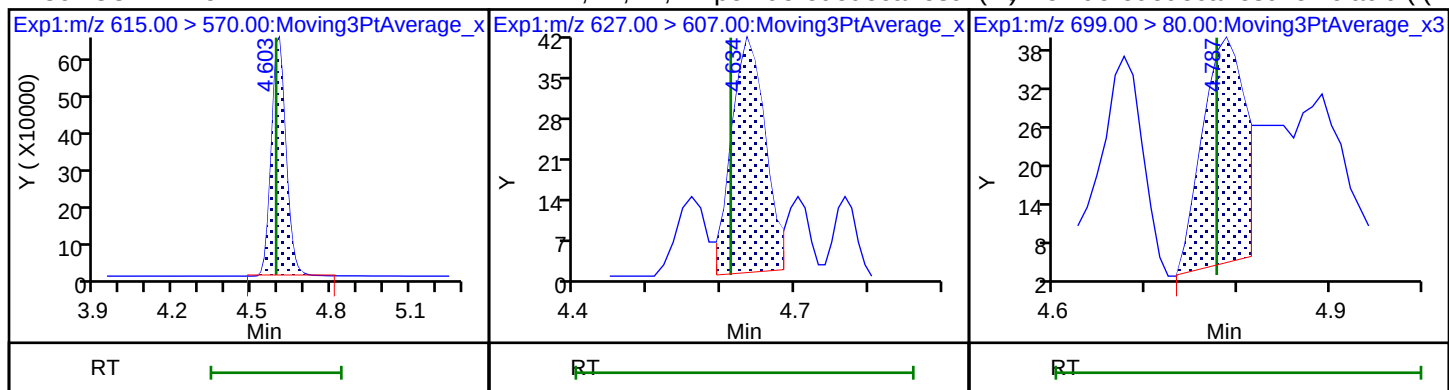
37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



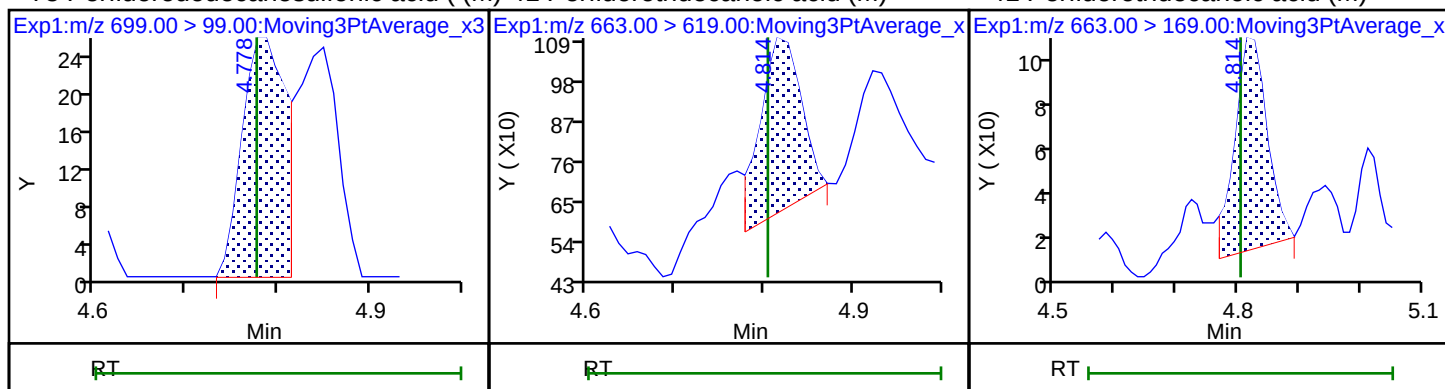
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)

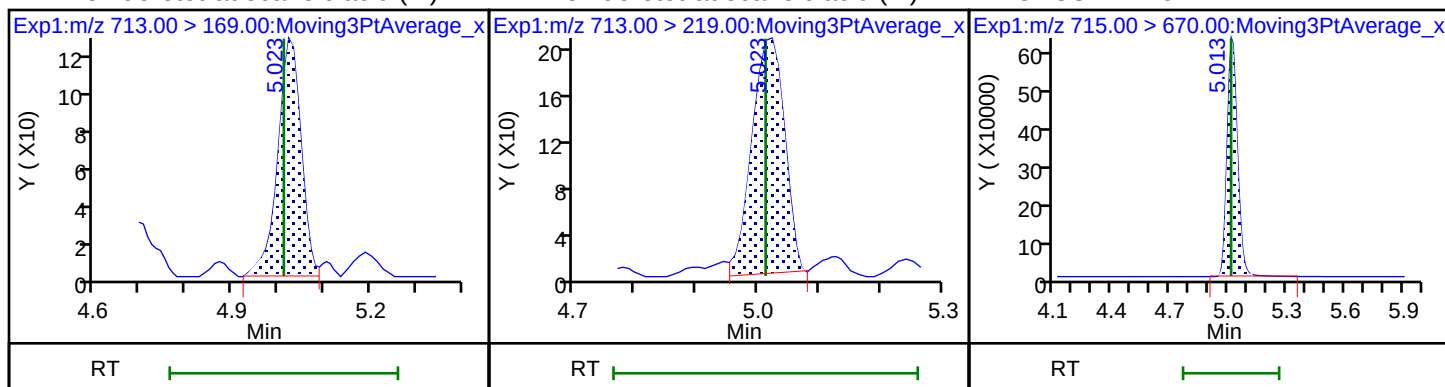
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

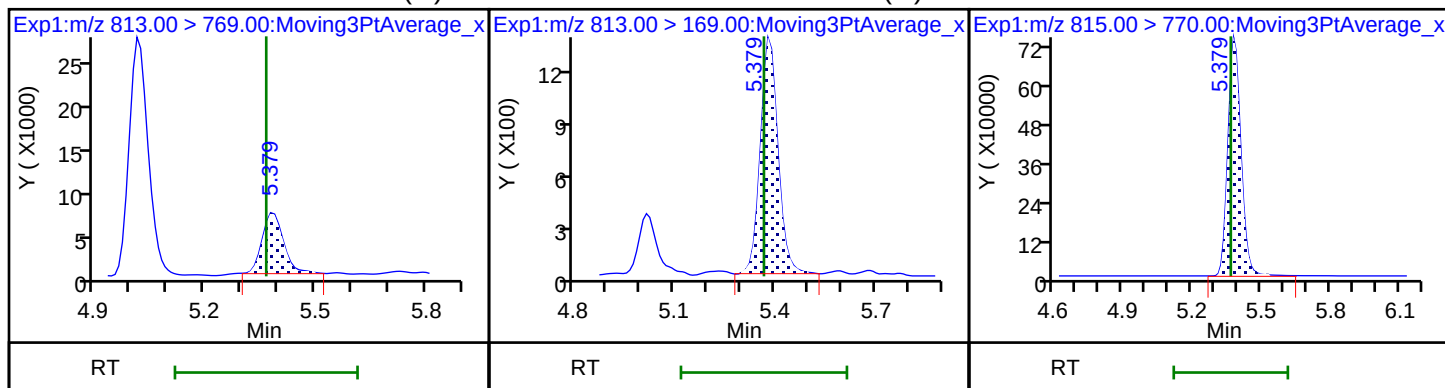
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

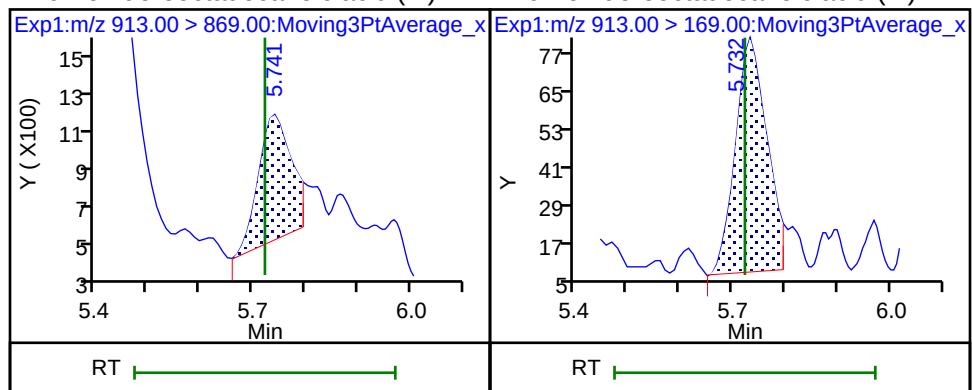
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

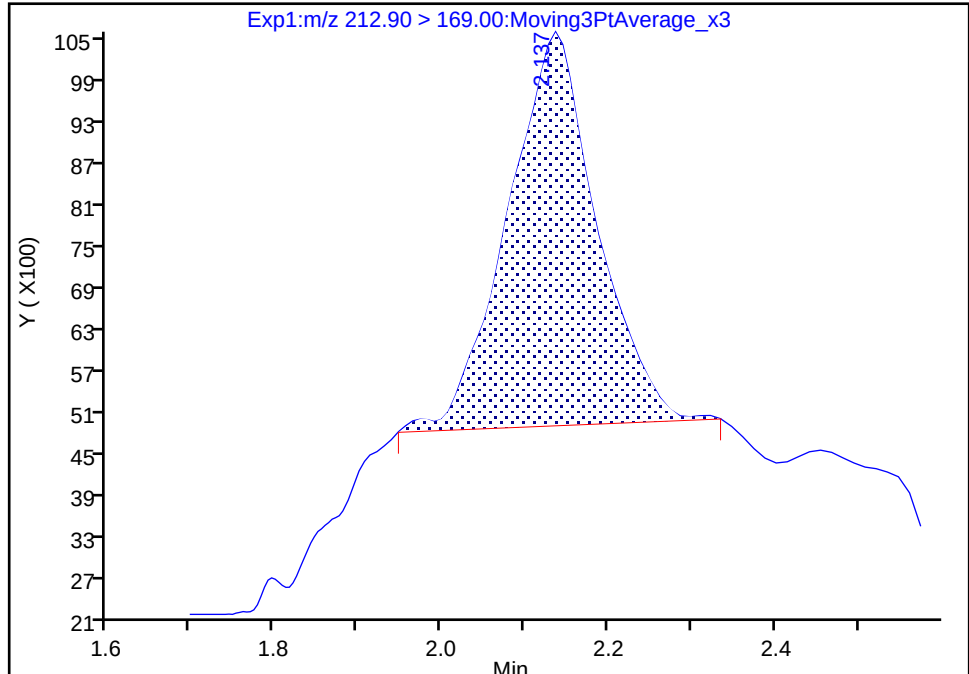
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Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

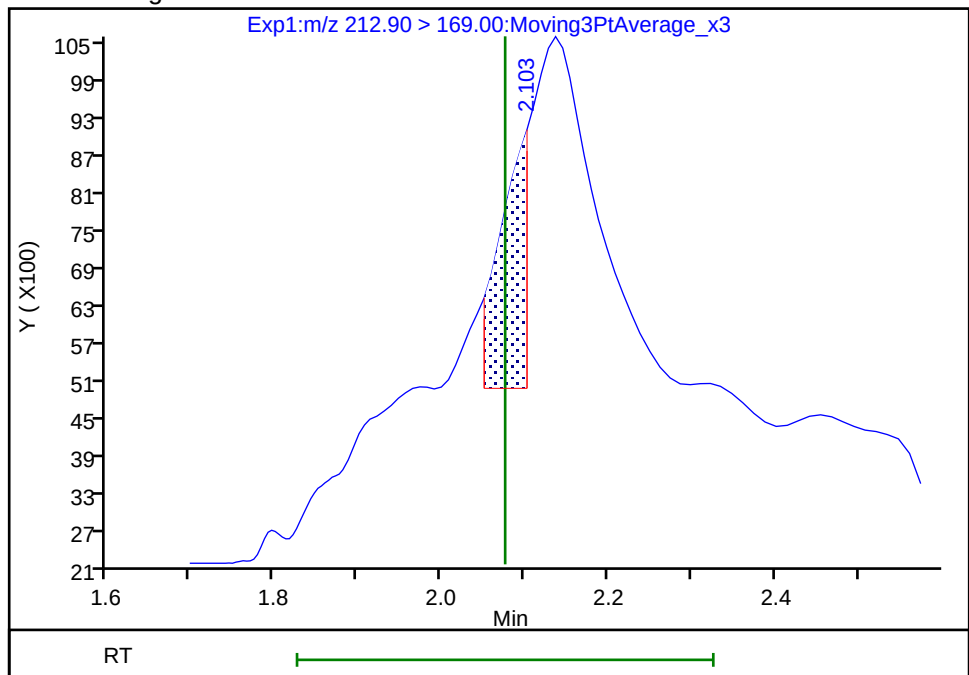
RT: 2.14
Area: 41963
Amount: 0.019534
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 8673
Amount: 0.004037
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:48:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

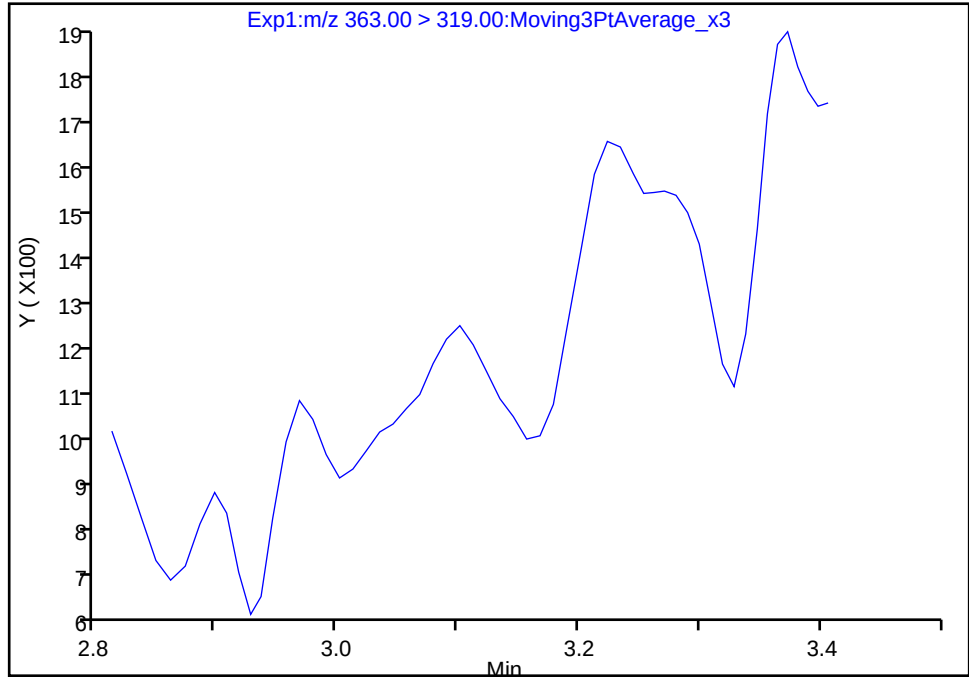
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

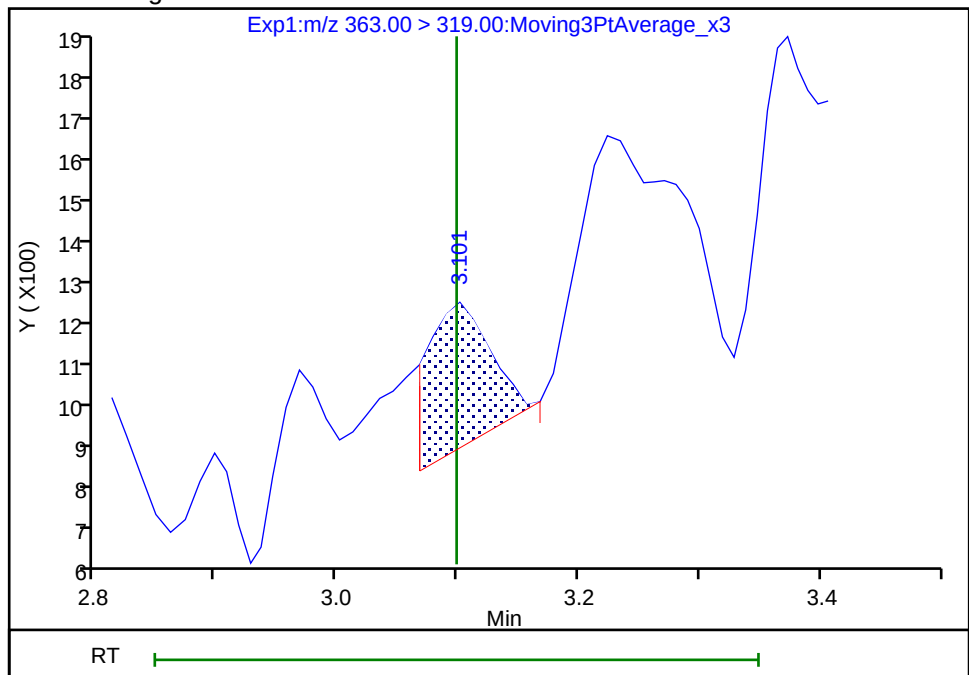
Signal: 1

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:50:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

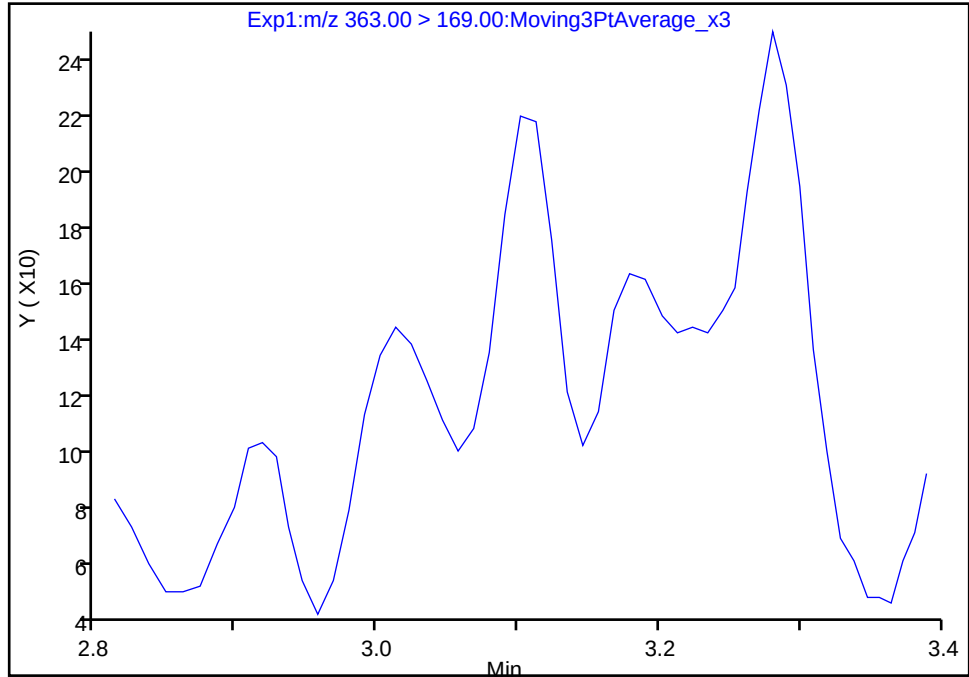
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

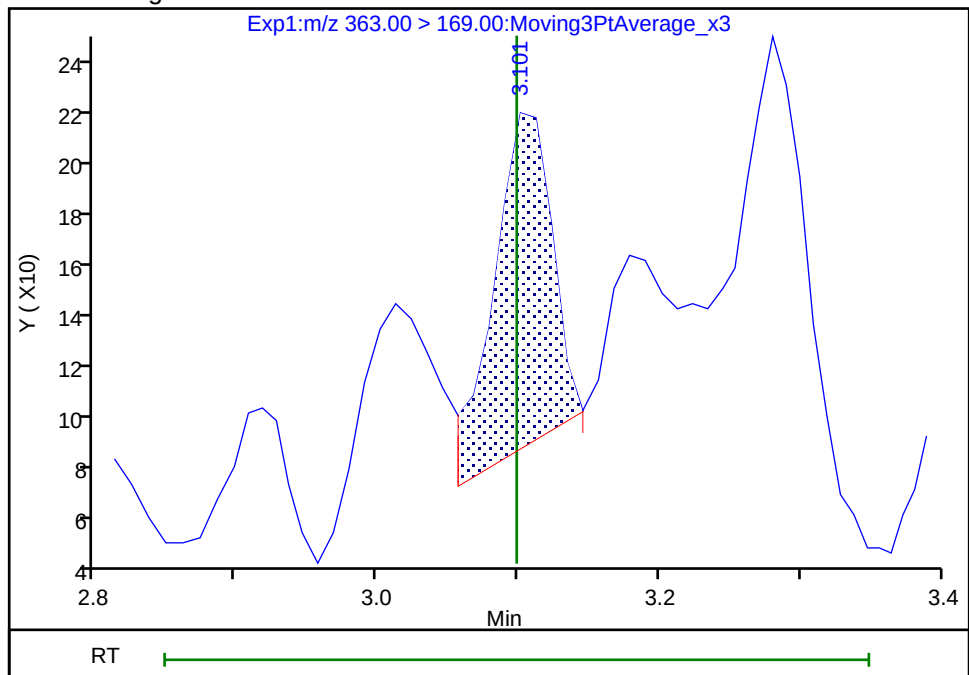
Signal: 2

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.10
Area: 374
Amount: 0.000585
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 08:50:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

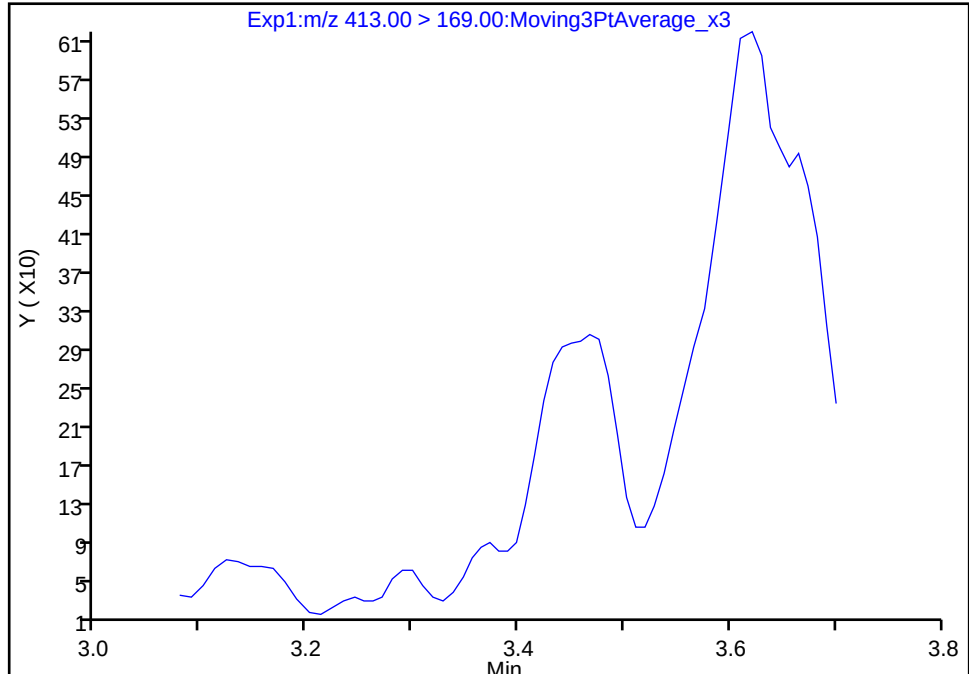
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

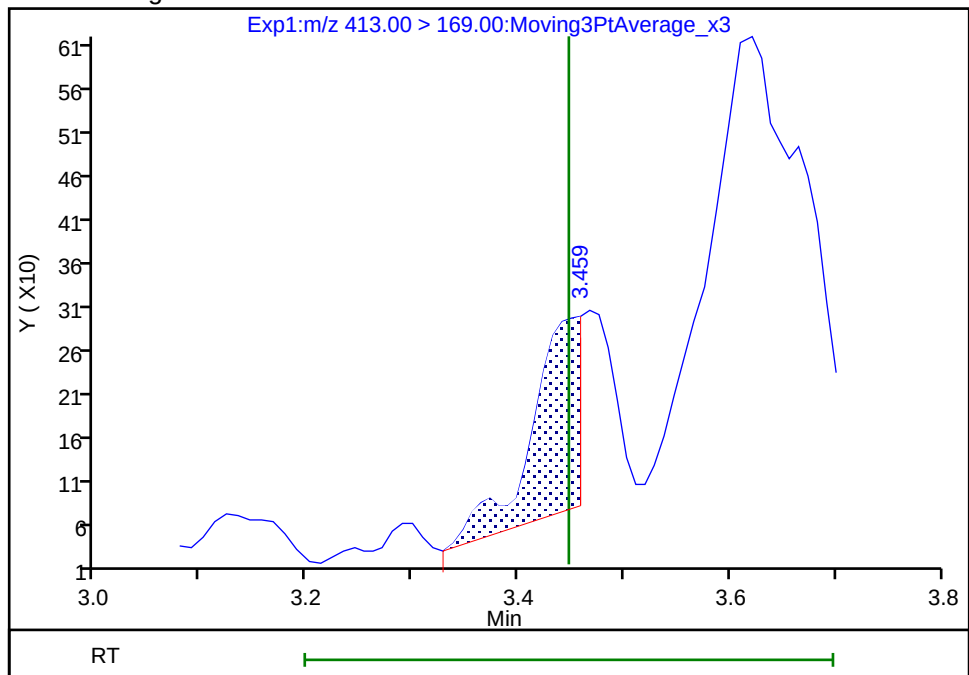
Signal: 2

Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.46
Area: 696
Amount: 0.000571
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 08:53:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d

Injection Date: 16-Dec-2022 12:09:39

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#:

1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

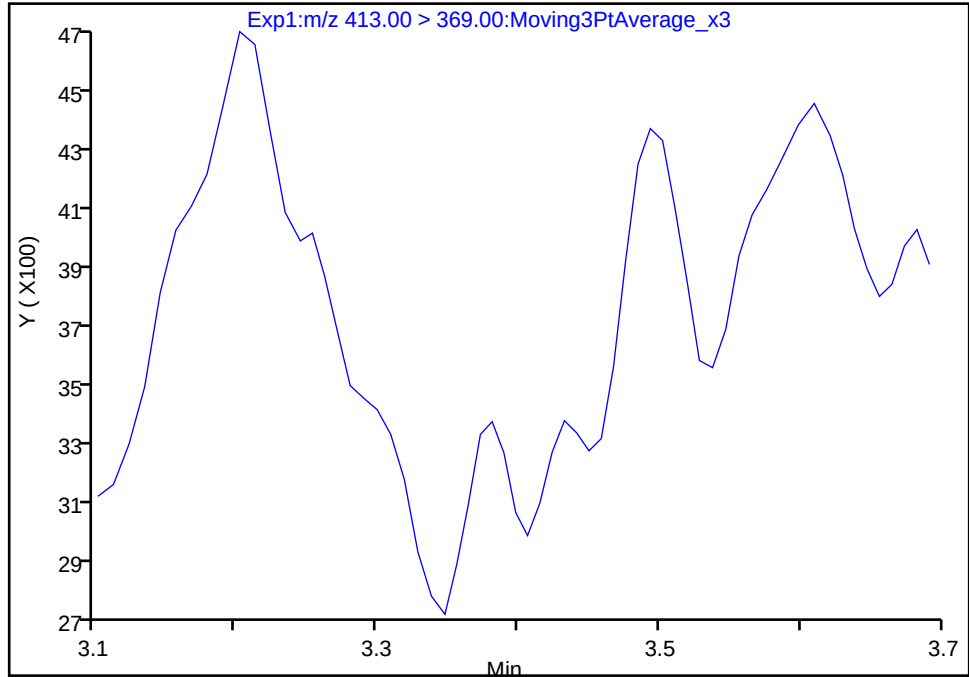
15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

Not Detected

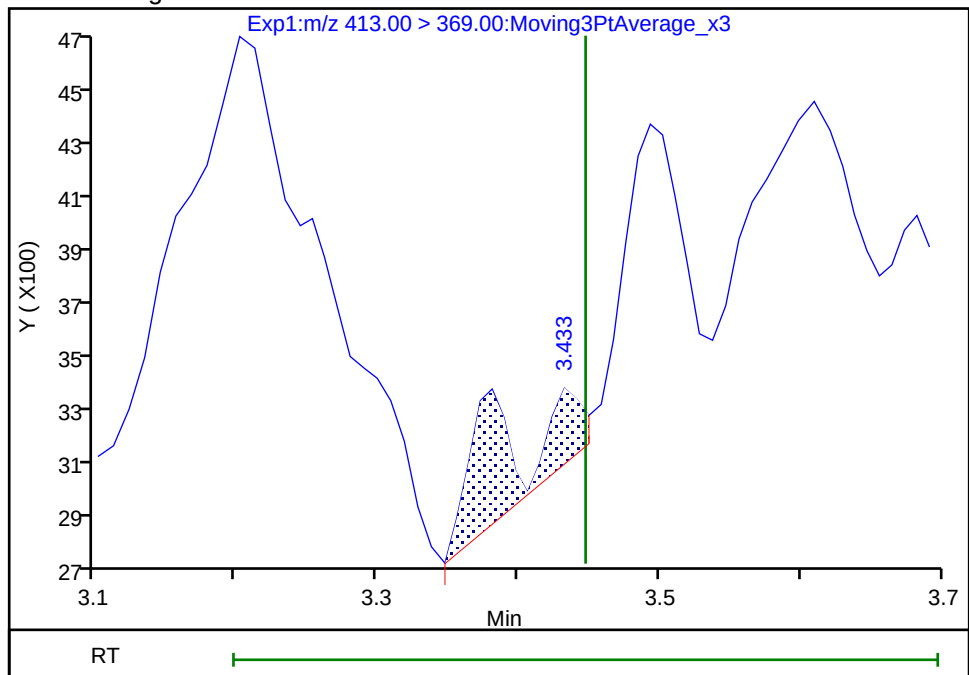
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 1317
Amount: 0.000571
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:53:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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12/21/2022

3:12 PM

Eurofins Burlington

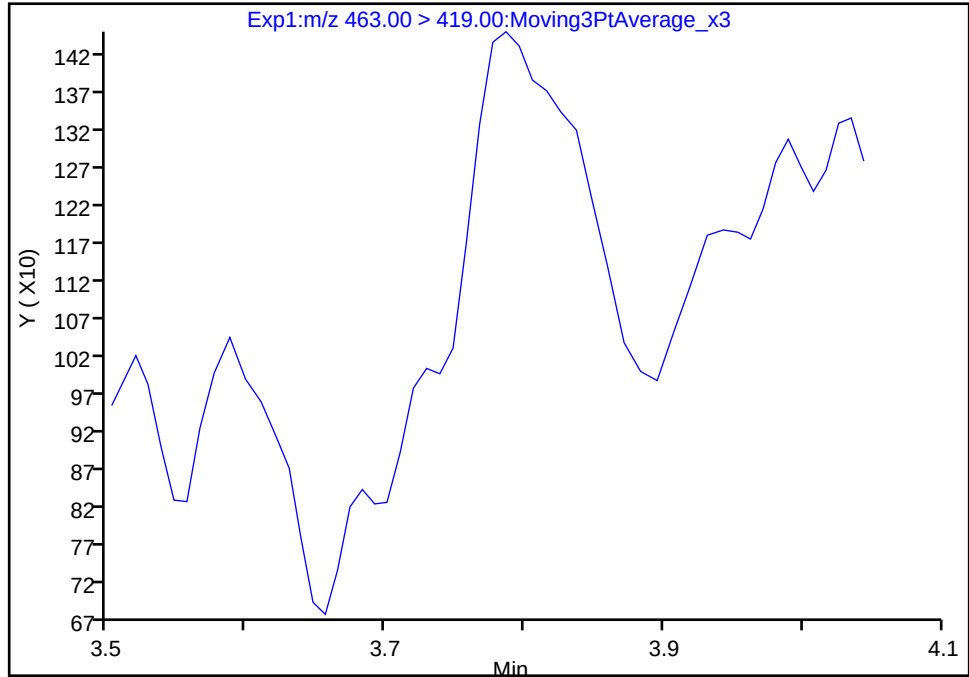
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

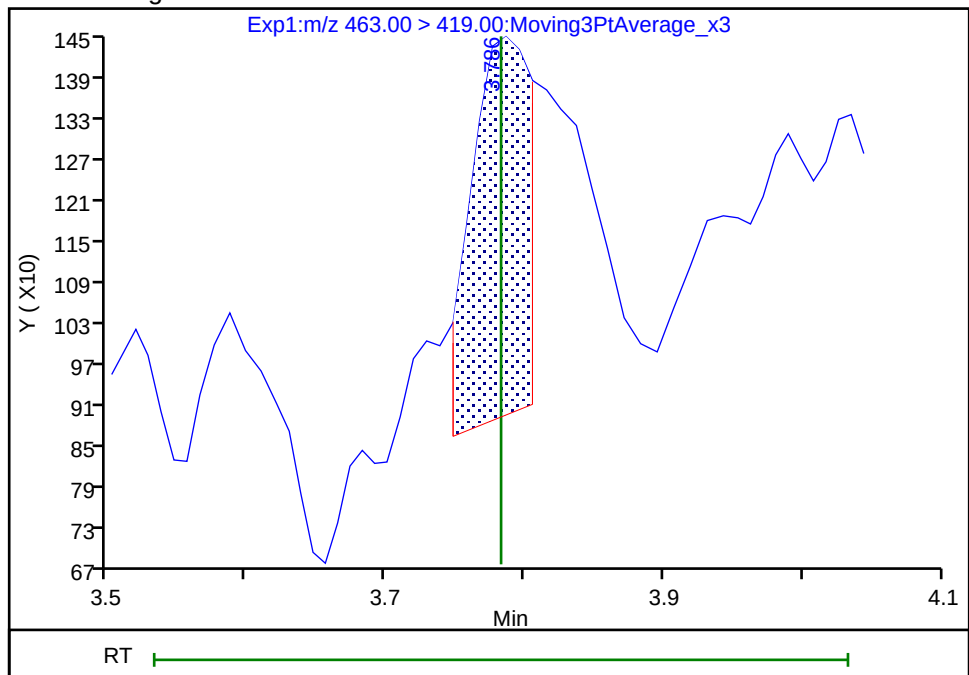
Not Detected
Expected RT: 3.78

Processing Integration Results



RT: 3.79
Area: 1539
Amount: 0.000695
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:55:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

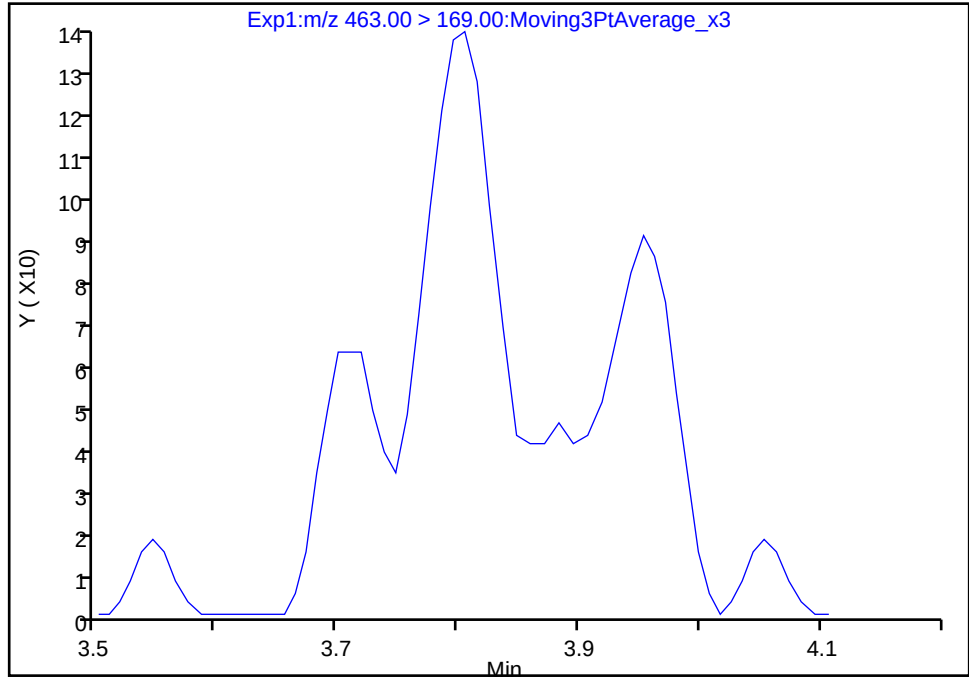
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

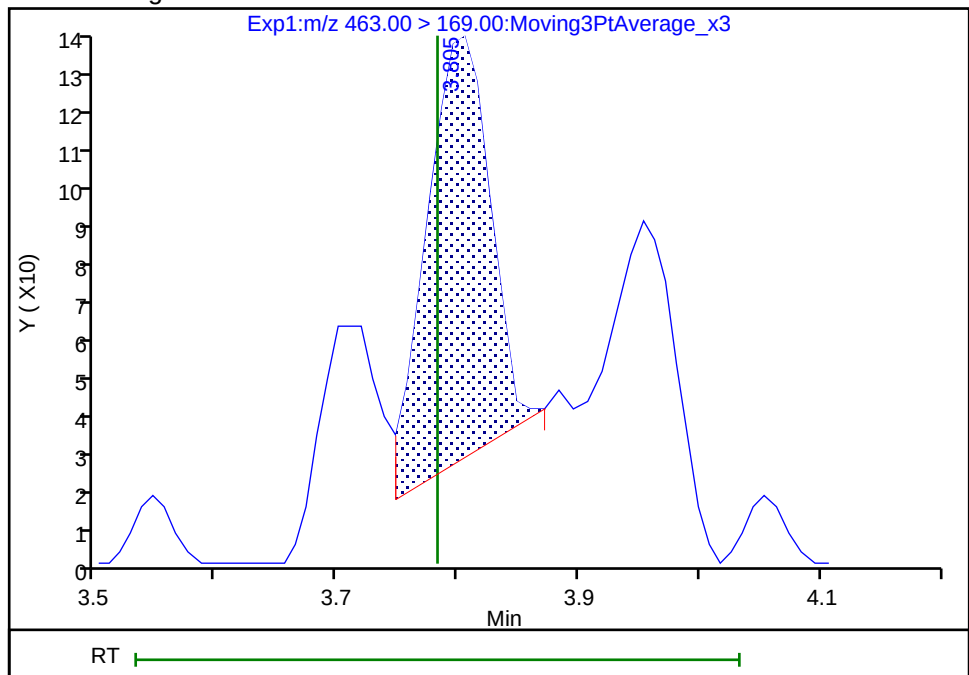
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.81
Area: 411
Amount: 0.000695
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:55:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

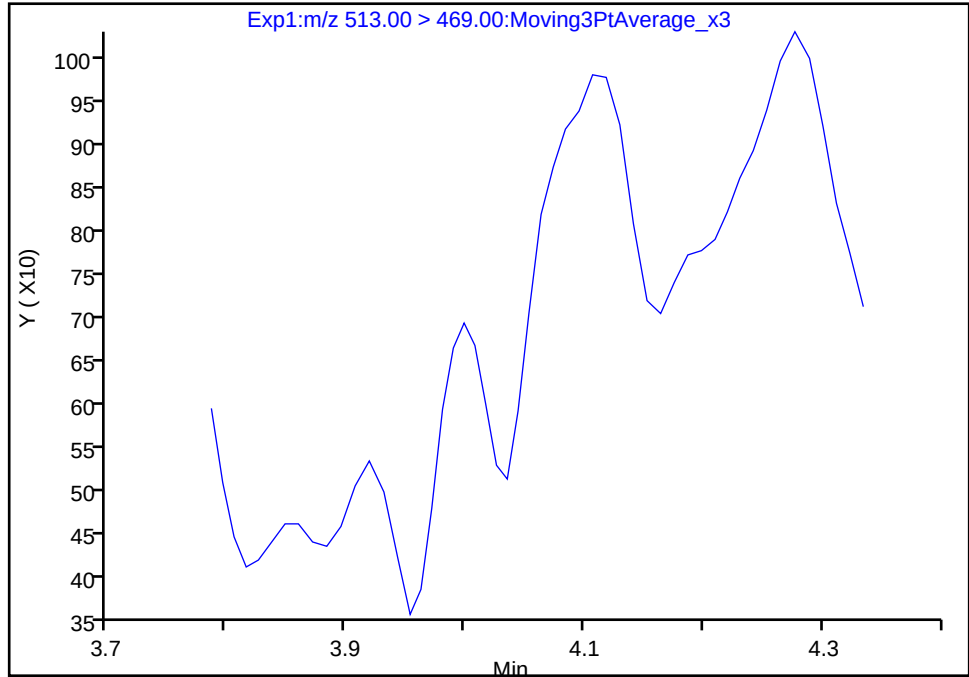
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

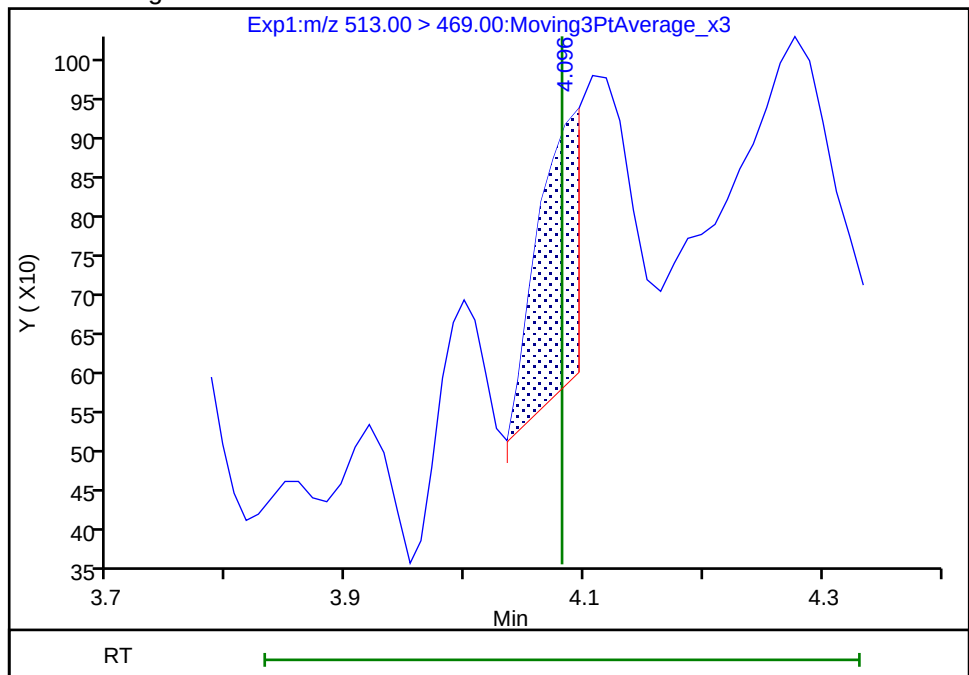
Not Detected
Expected RT: 4.08

Processing Integration Results



RT: 4.10
Area: 818
Amount: 0.000352
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:55:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d

Injection Date: 16-Dec-2022 12:09:39

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#:

1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

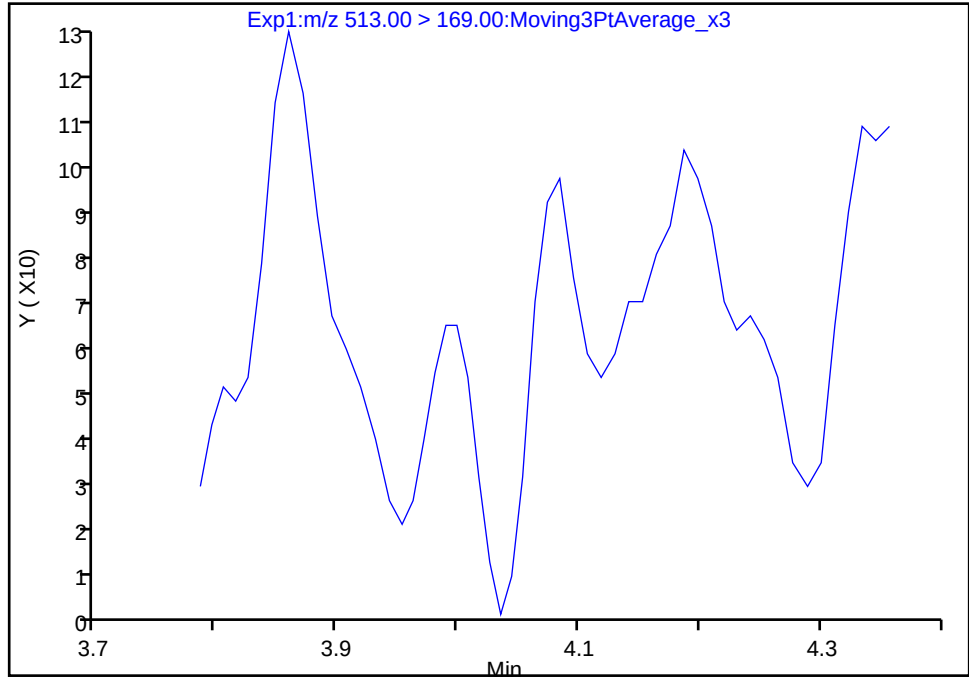
24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

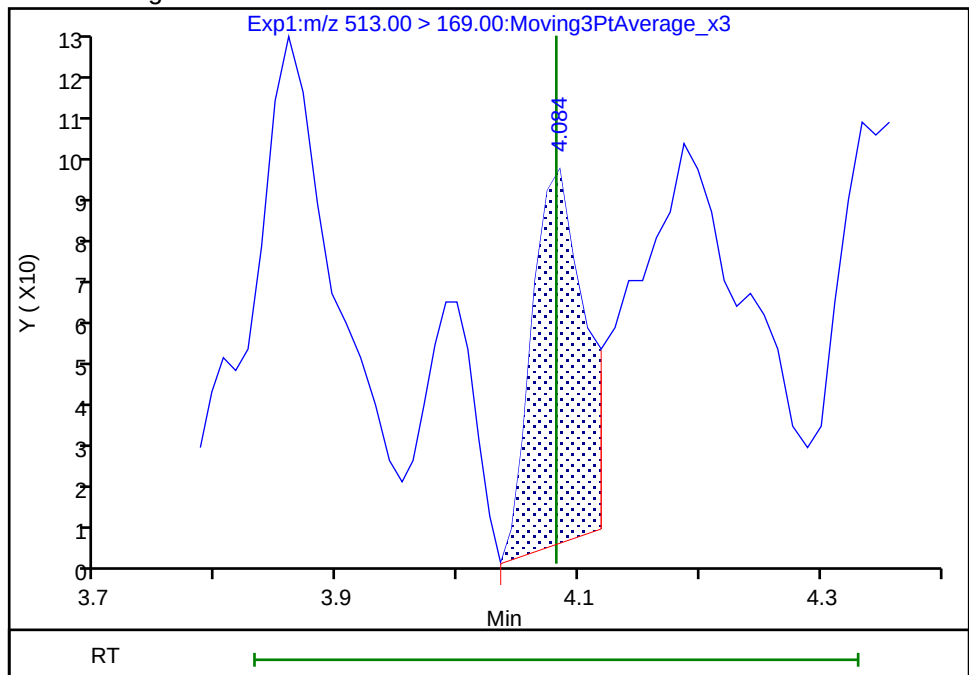
Not Detected

Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.08

Area: 258

Amount: 0.000352

Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 08:56:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

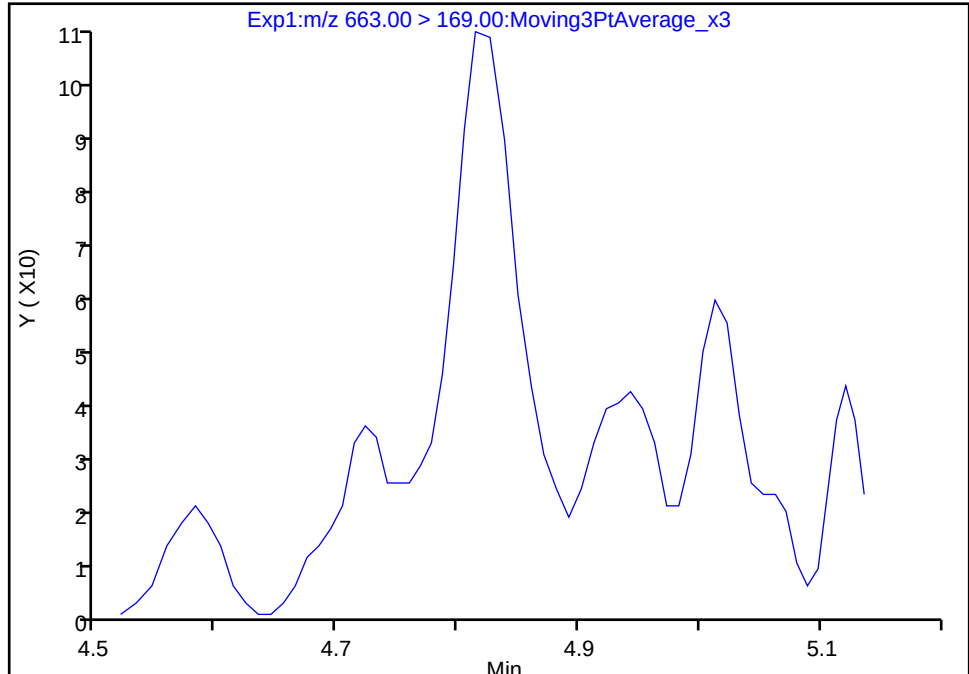
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

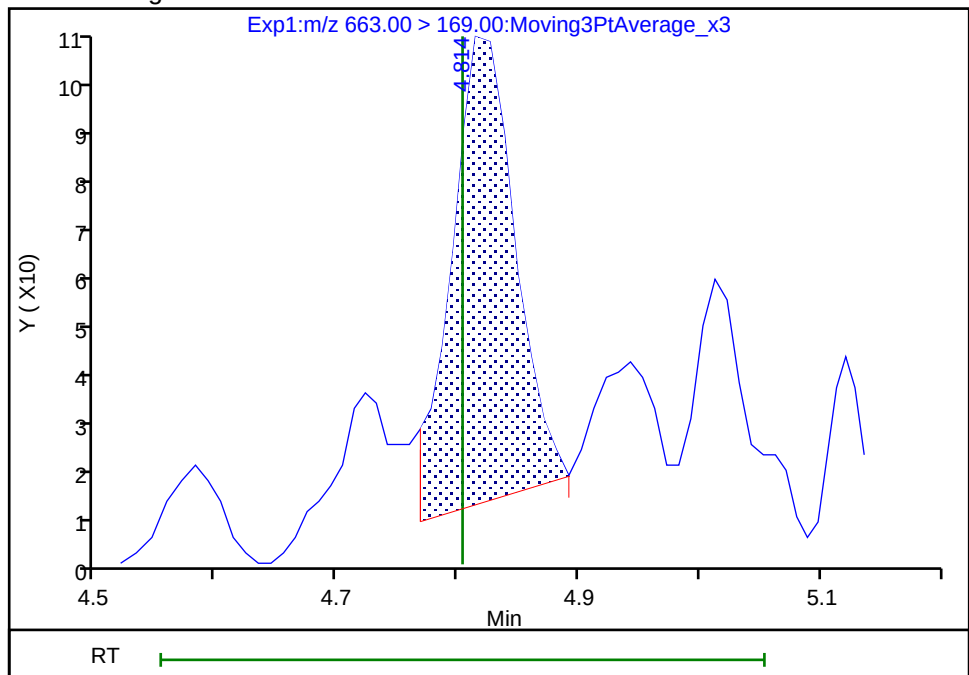
Signal: 2

Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results



RT: 4.81
Area: 329
Amount: 0.000735
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 08:57:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

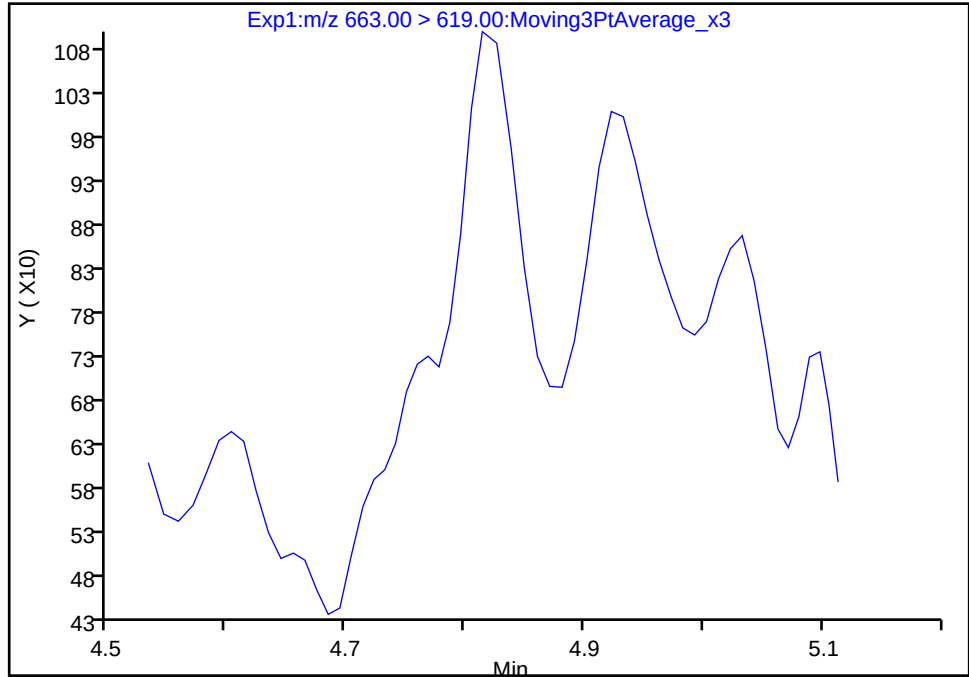
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

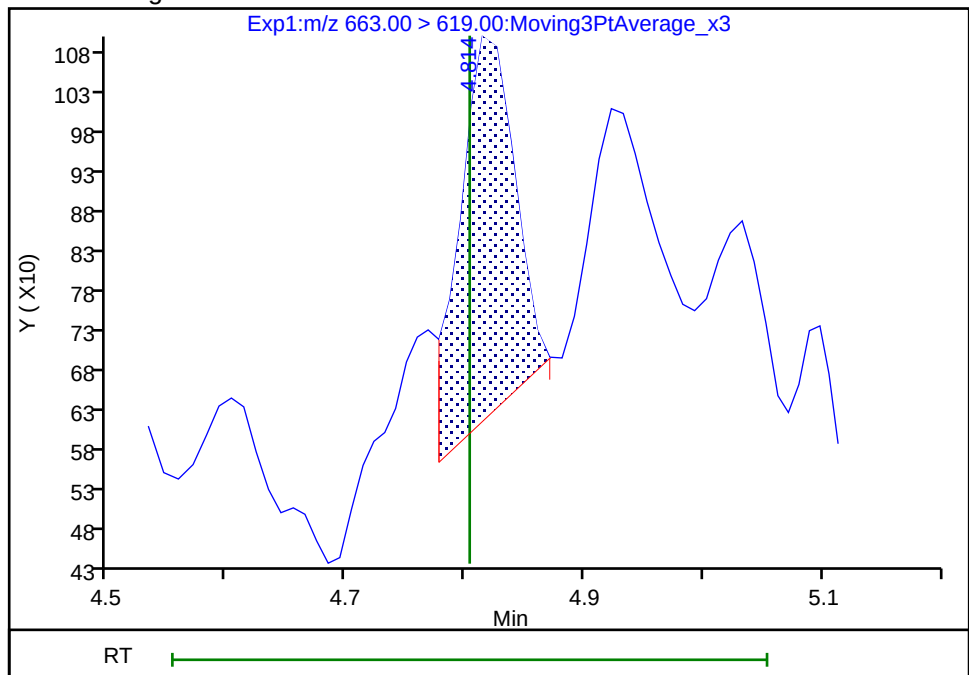
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.81
Area: 1512
Amount: 0.000735
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:58:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

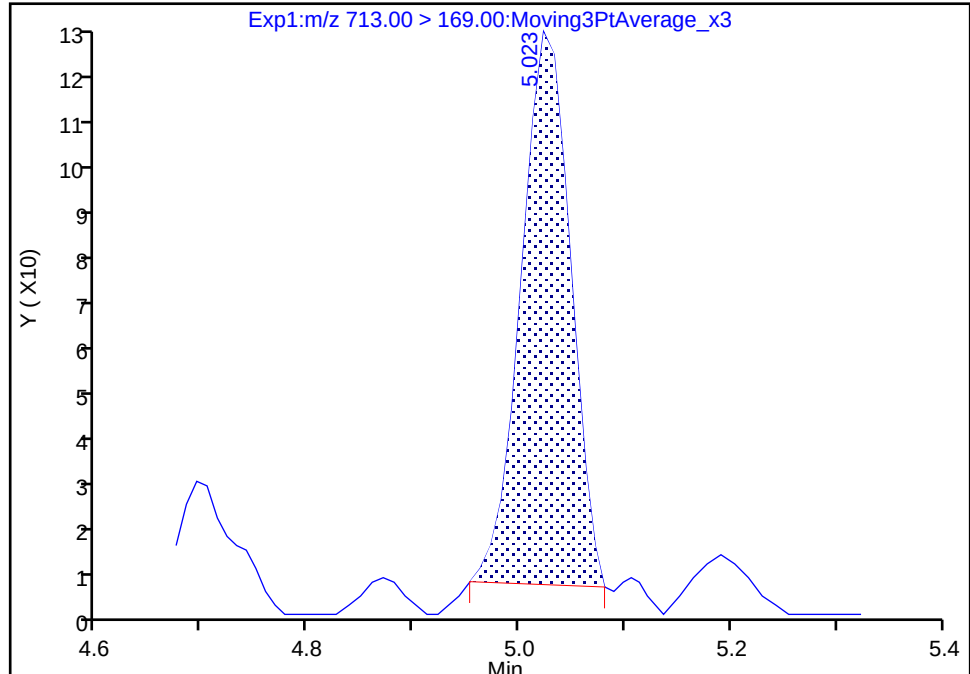
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

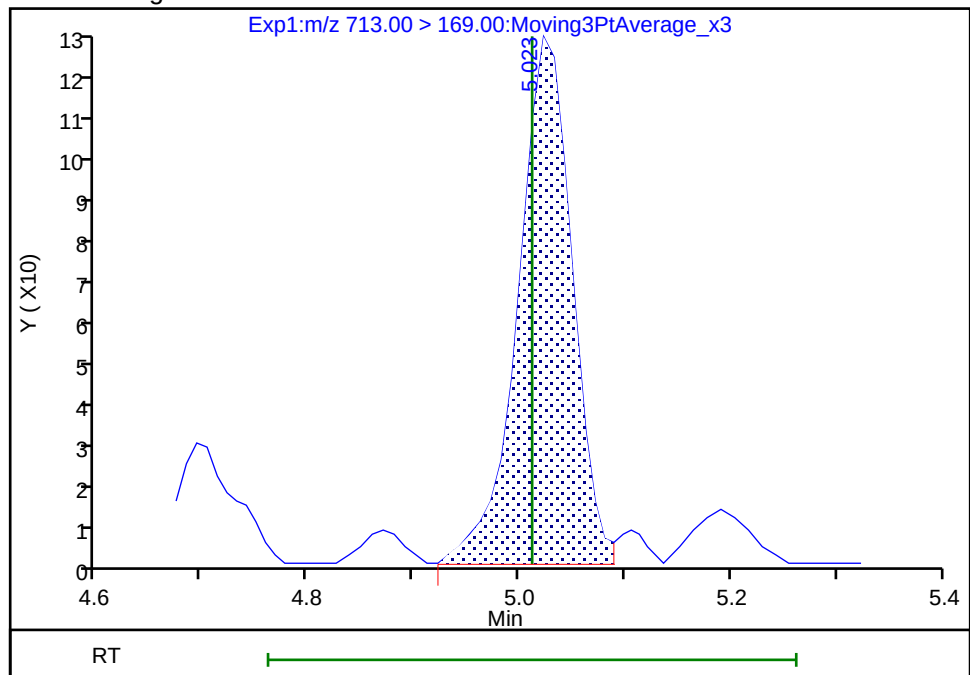
RT: 5.02
Area: 392
Amount: 0.001504
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 450
Amount: 0.001726
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:58:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

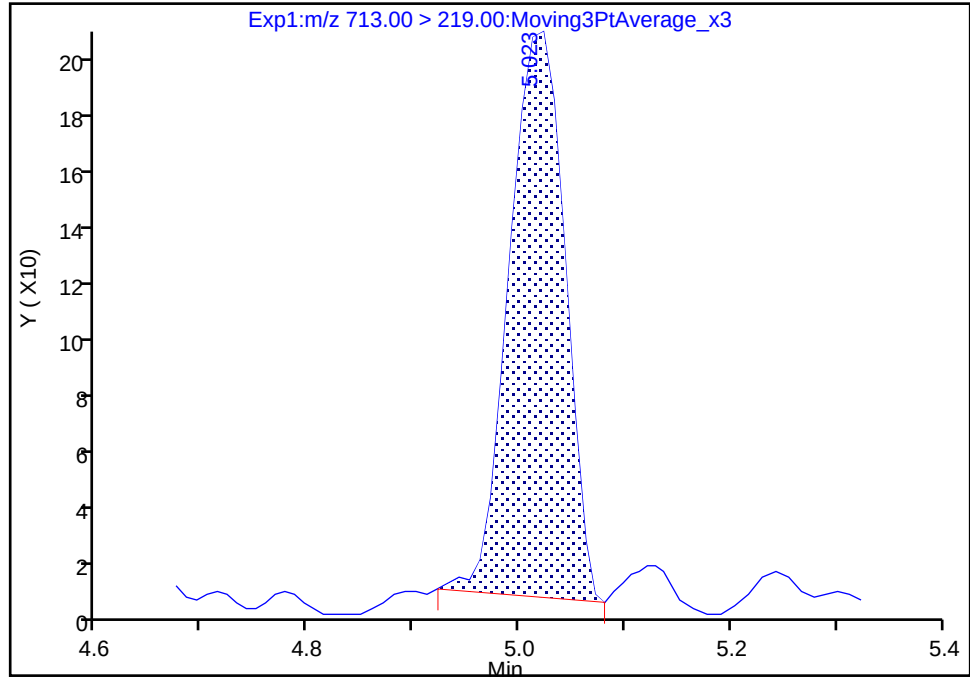
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

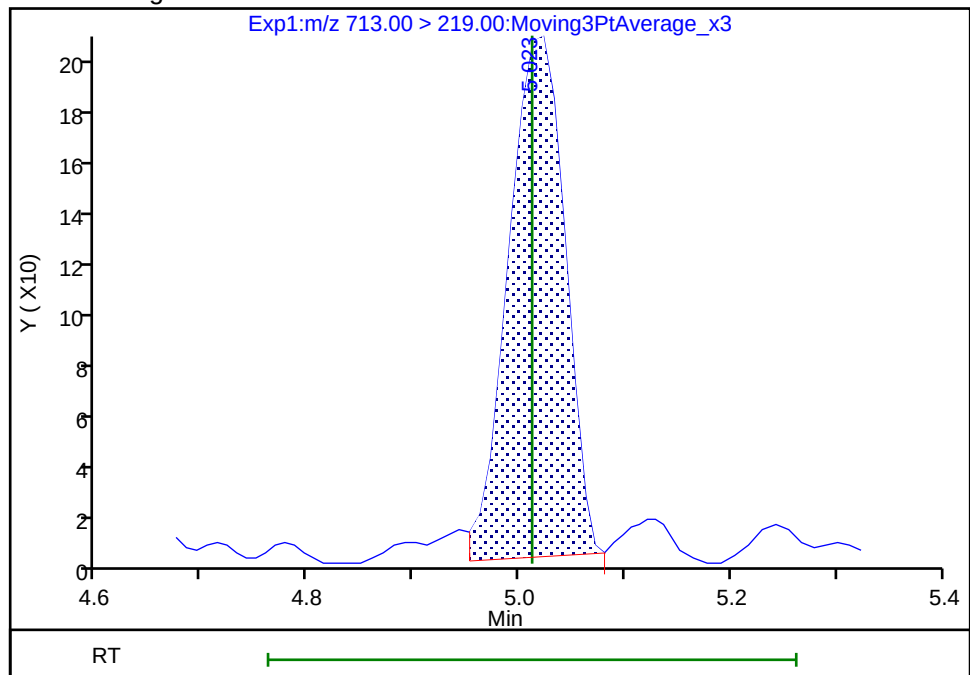
RT: 5.02
Area: 726
Amount: 0.001504
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 748
Amount: 0.001726
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:58:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

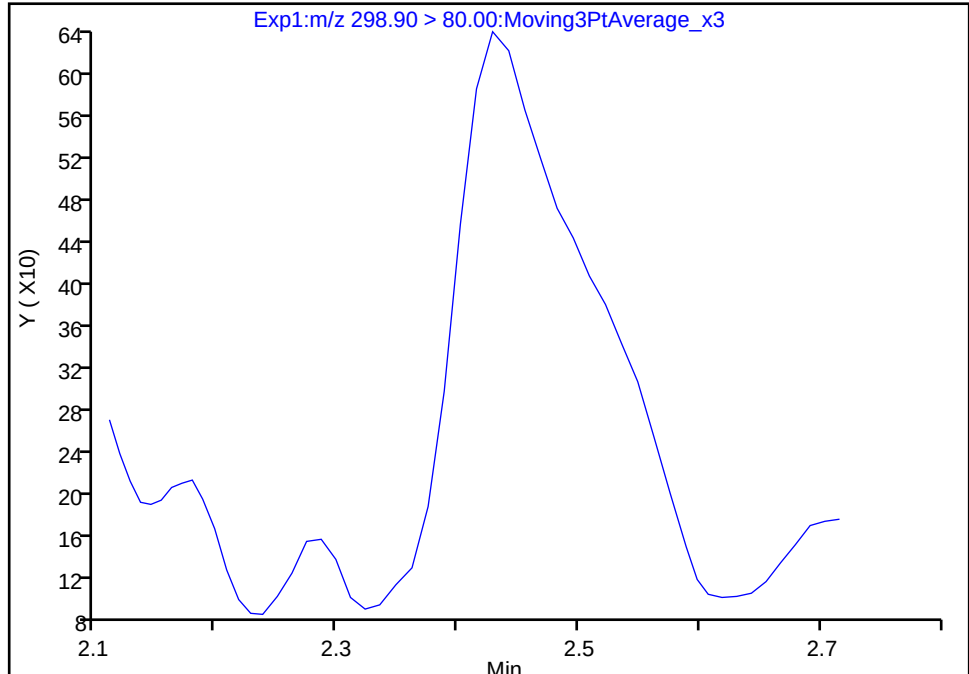
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

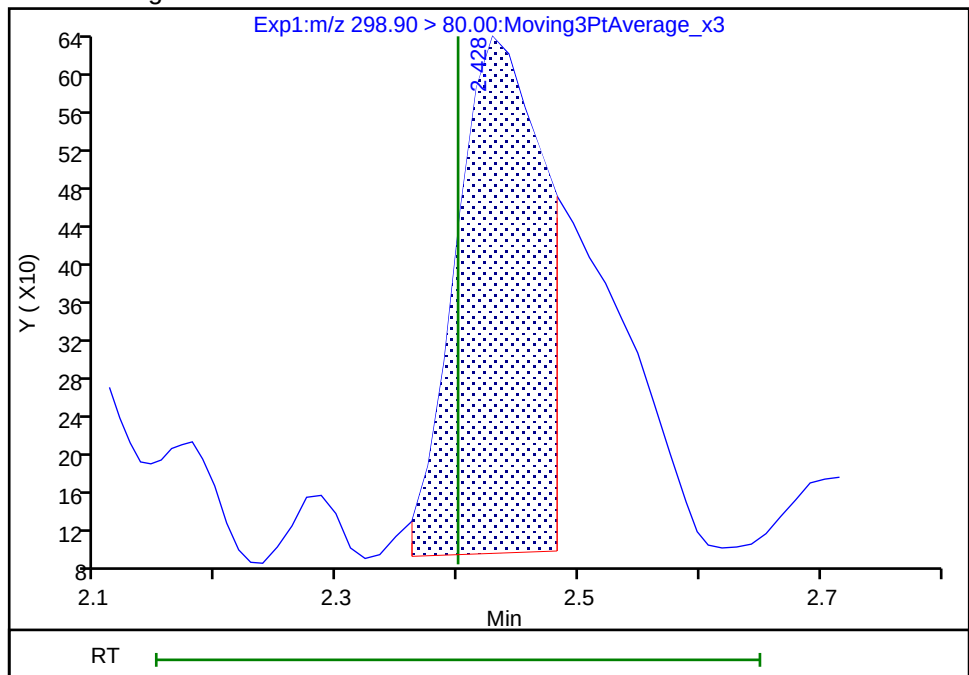
Not Detected
Expected RT: 2.40

Processing Integration Results



RT: 2.43
Area: 2647
Amount: 0.001228
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:49:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

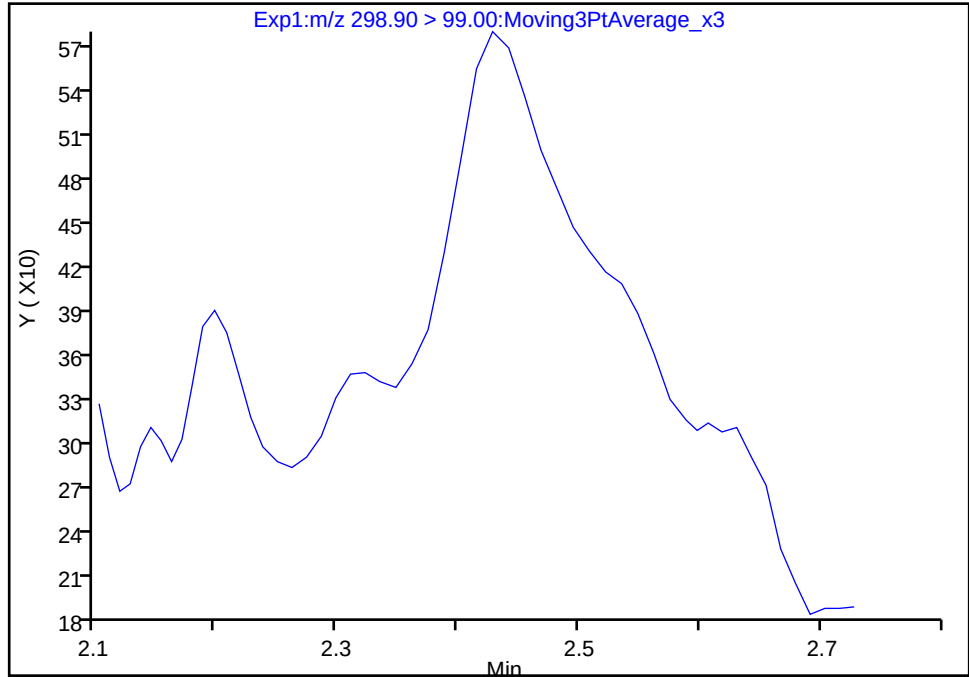
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

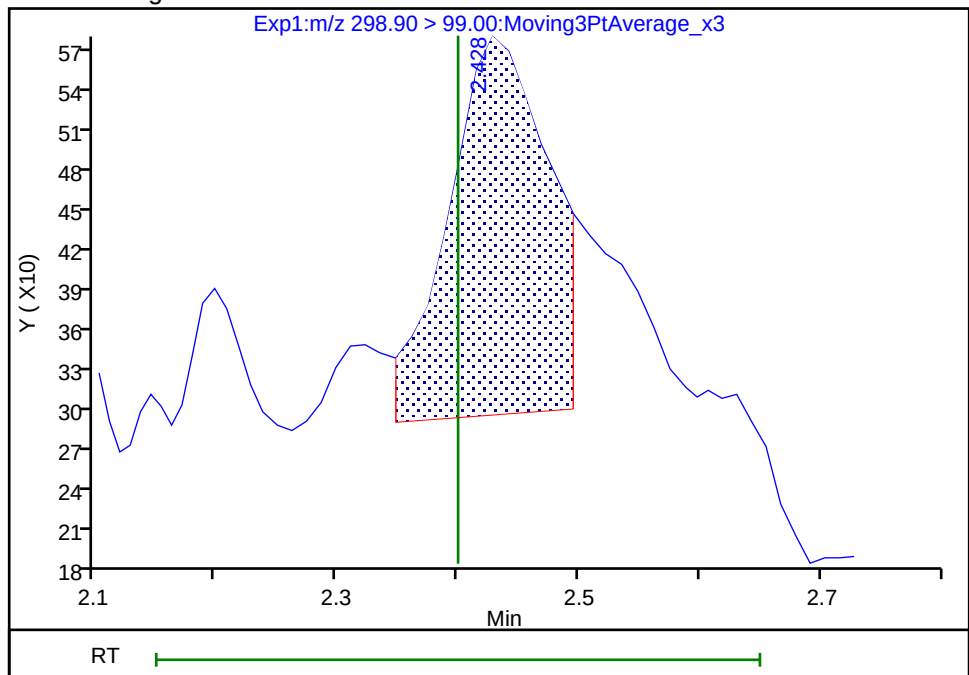
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 1597
Amount: 0.001228
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:49:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

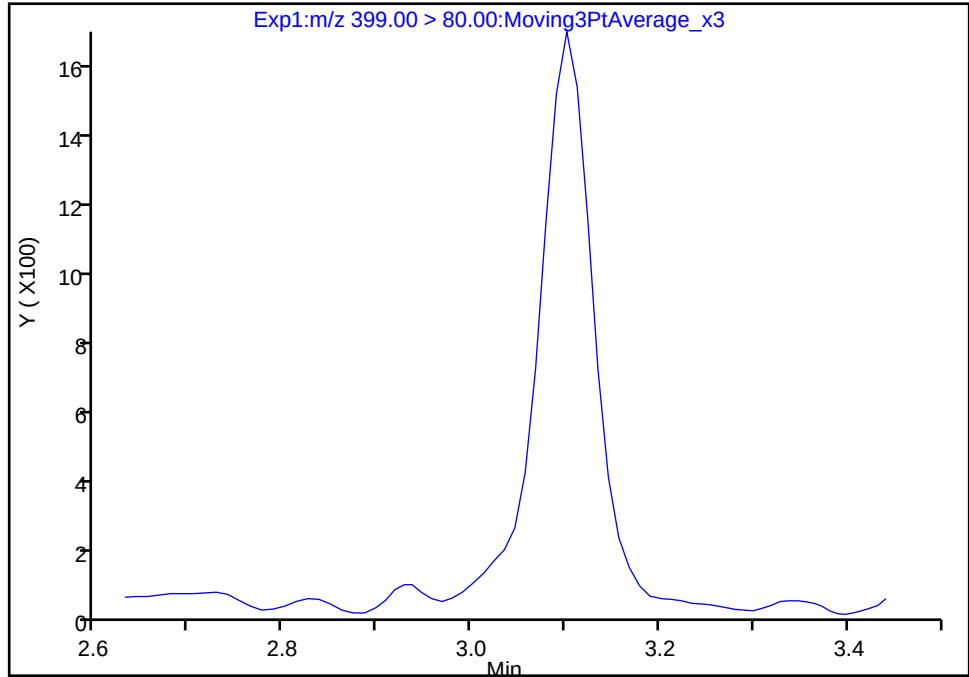
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

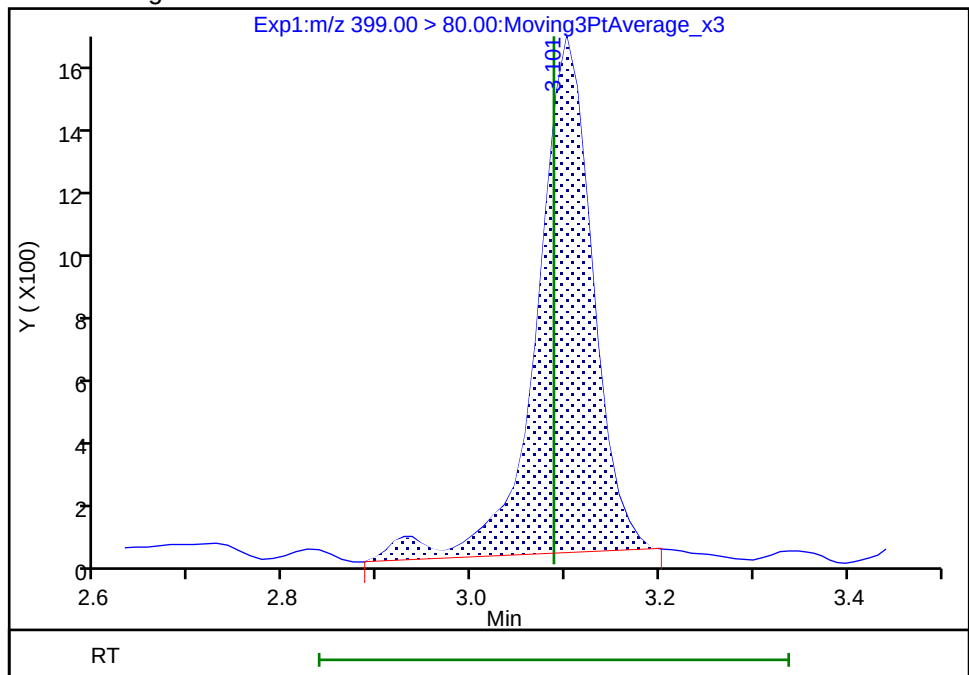
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 6662
Amount: 0.004282
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:50:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

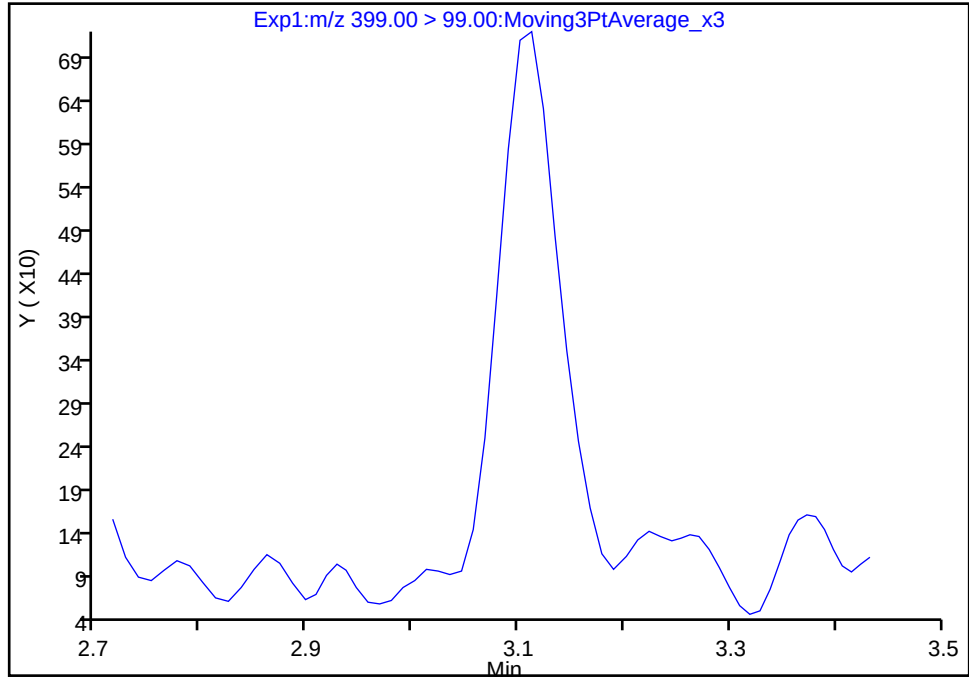
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

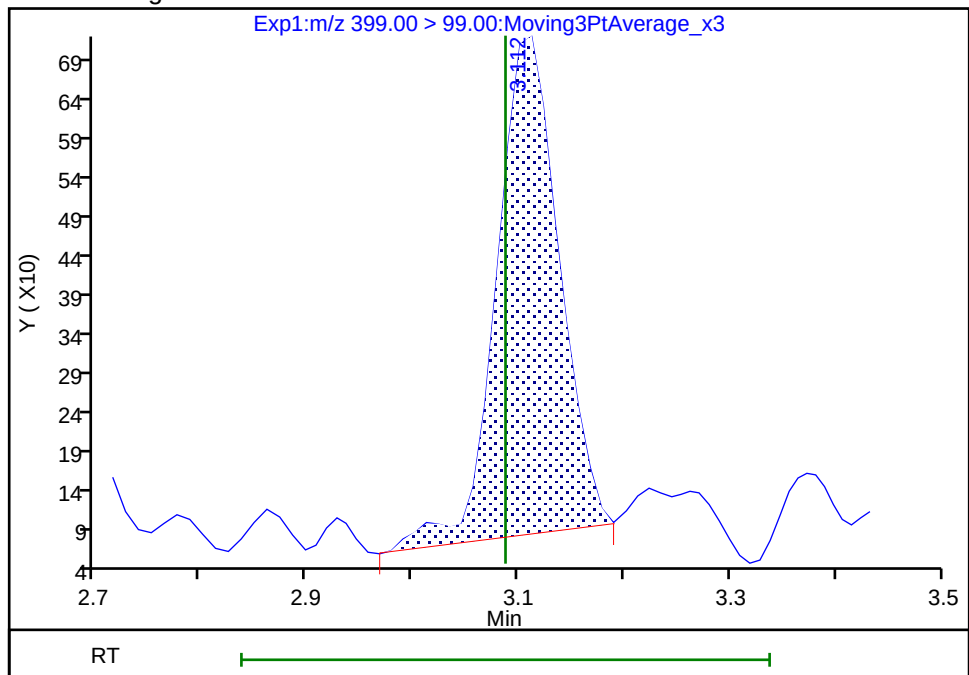
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 2617
Amount: 0.004282
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:50:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

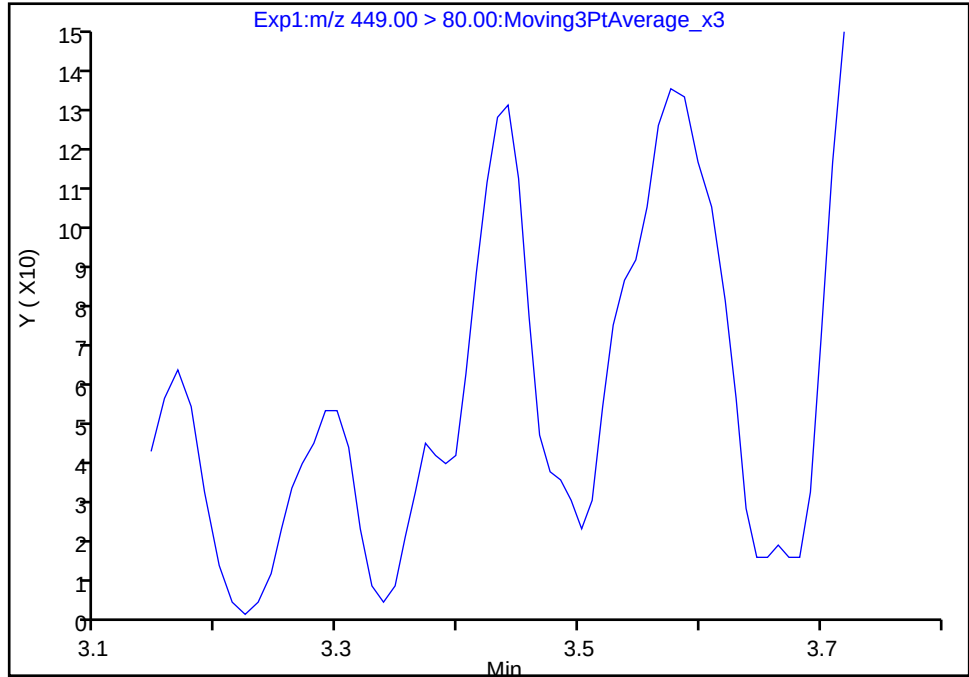
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

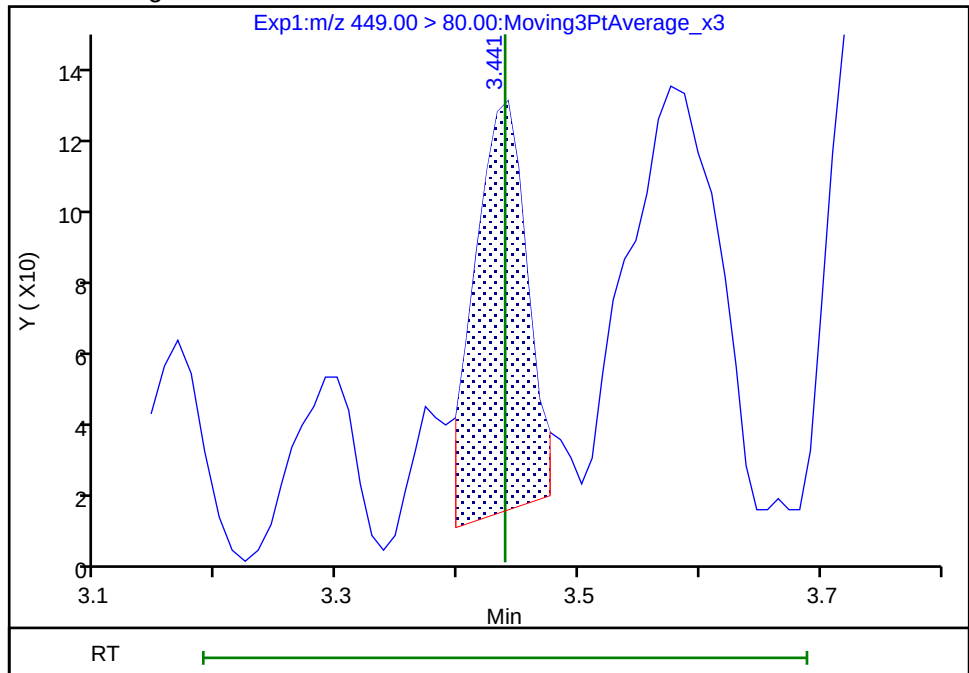
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 331
Amount: 0.000251
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:52:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

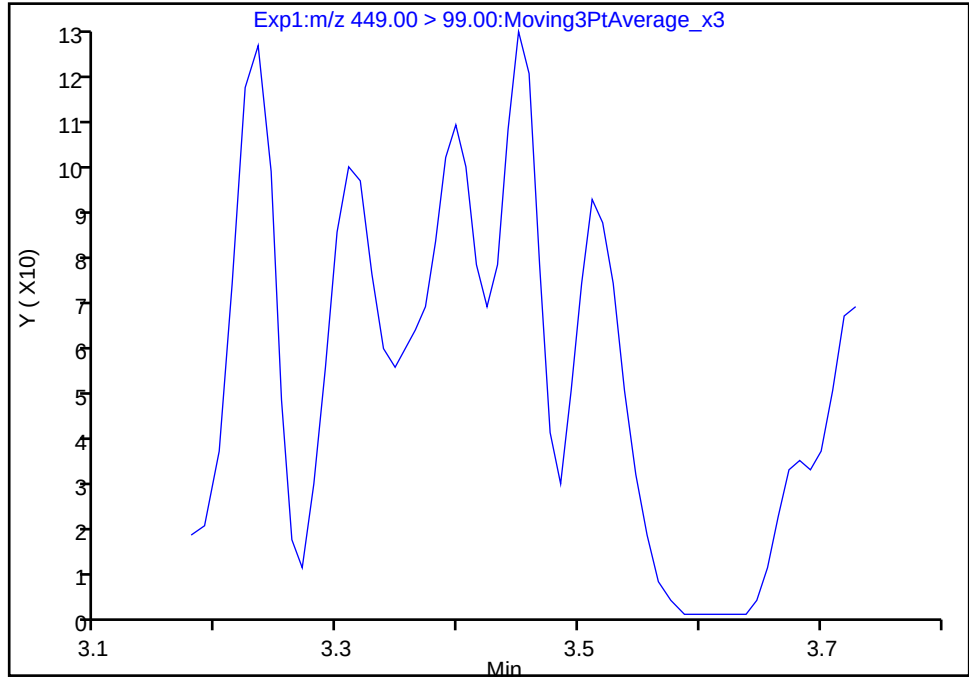
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

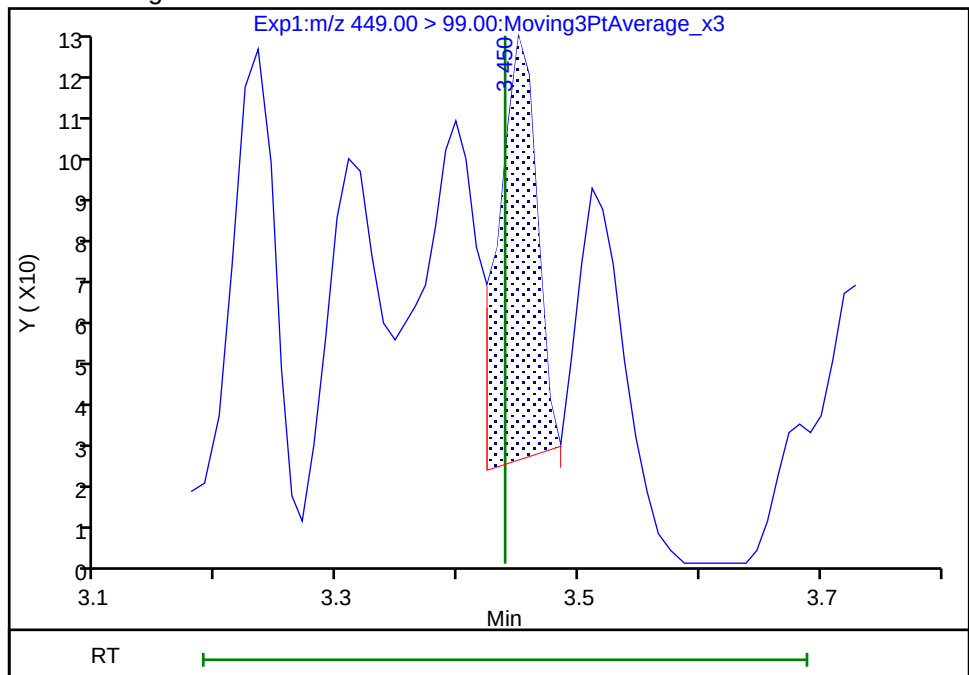
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 212
Amount: 0.000251
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:52:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

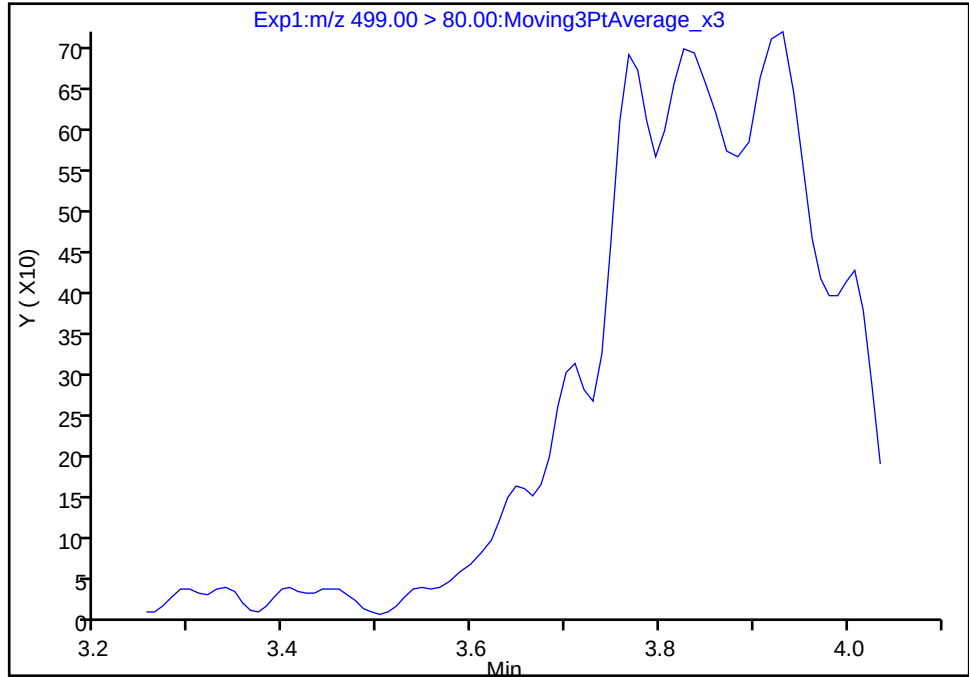
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

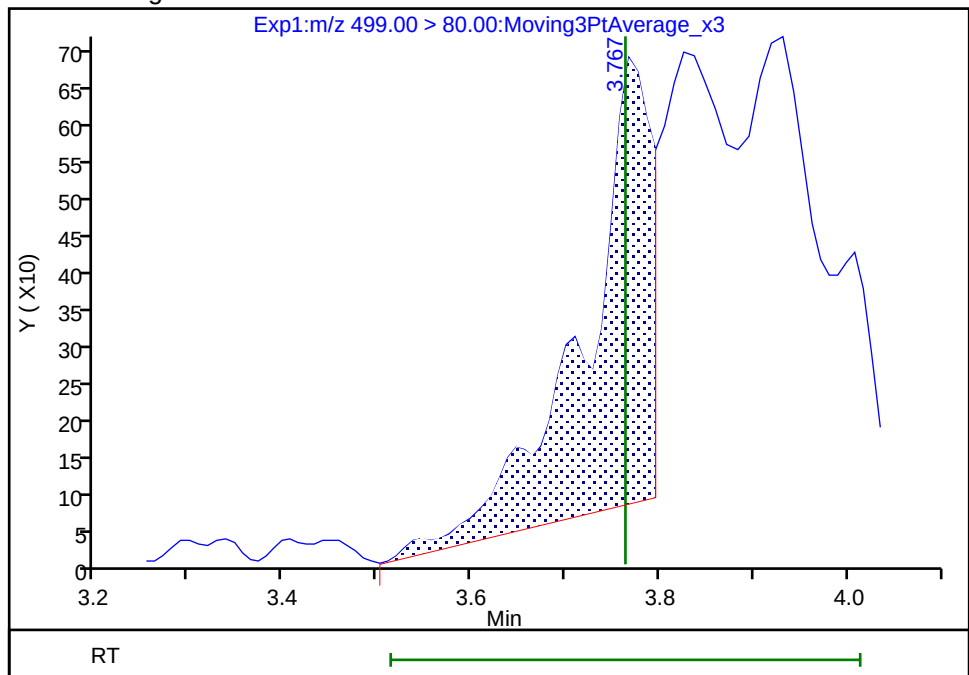
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 2945
Amount: 0.002562
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:54:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

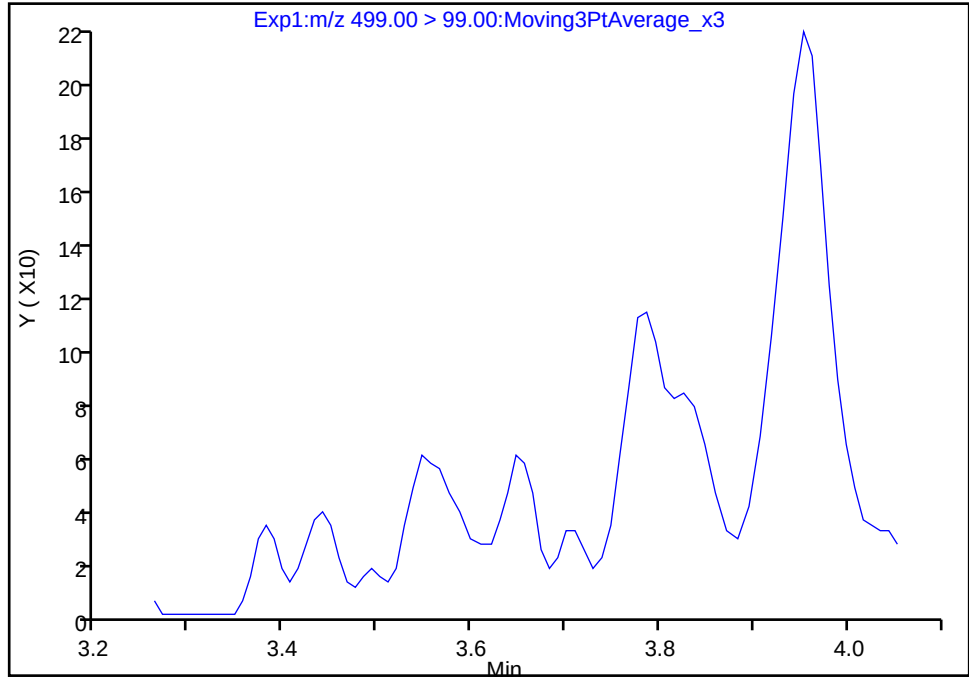
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

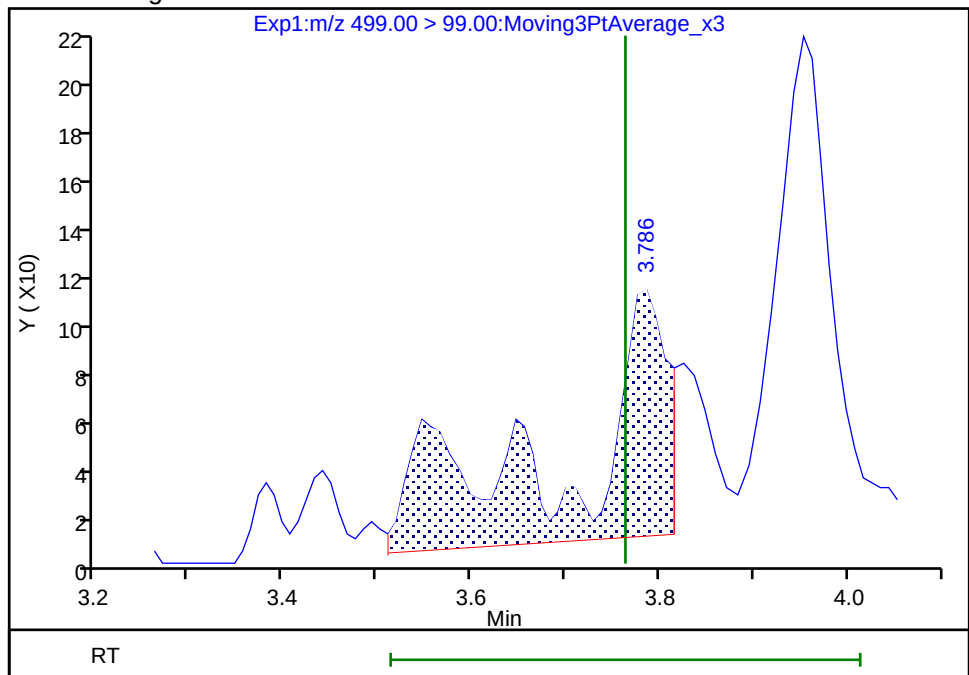
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 703
Amount: 0.002562
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:54:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

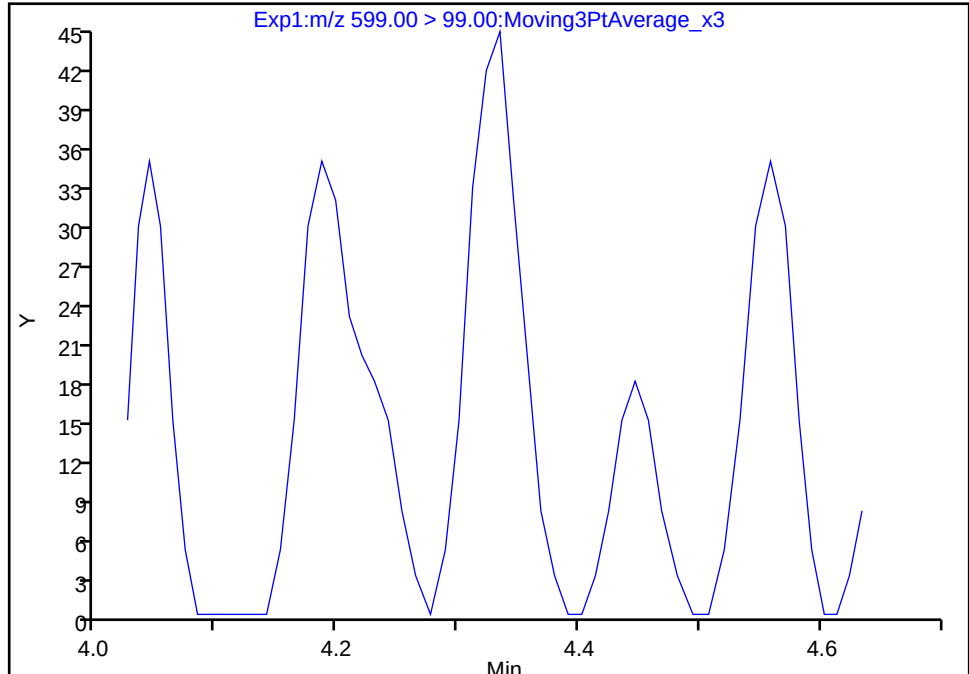
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

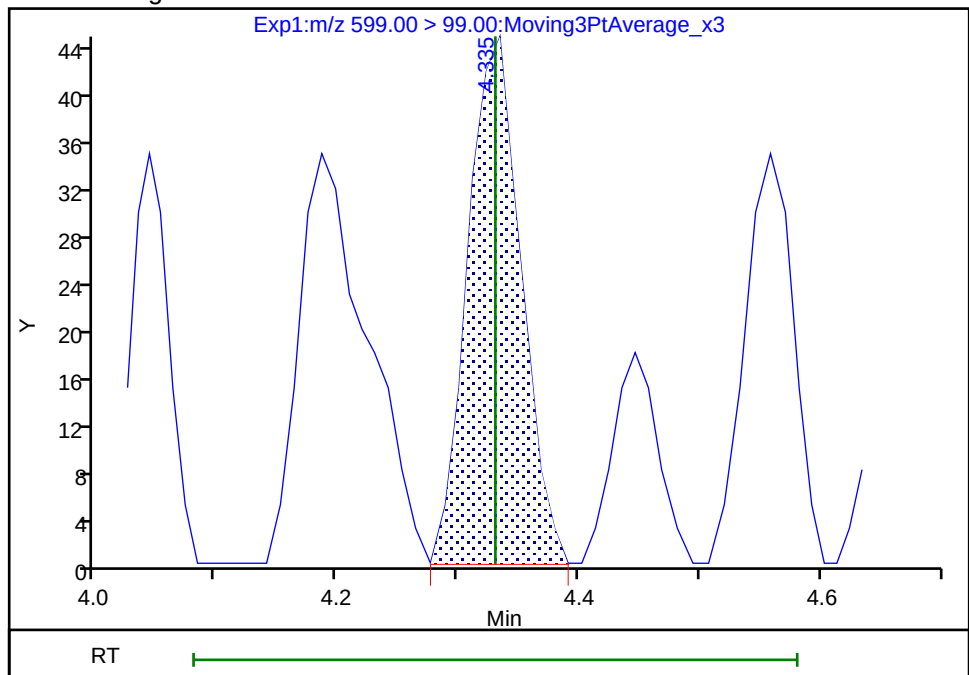
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 137
Amount: 0.000404
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:56:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

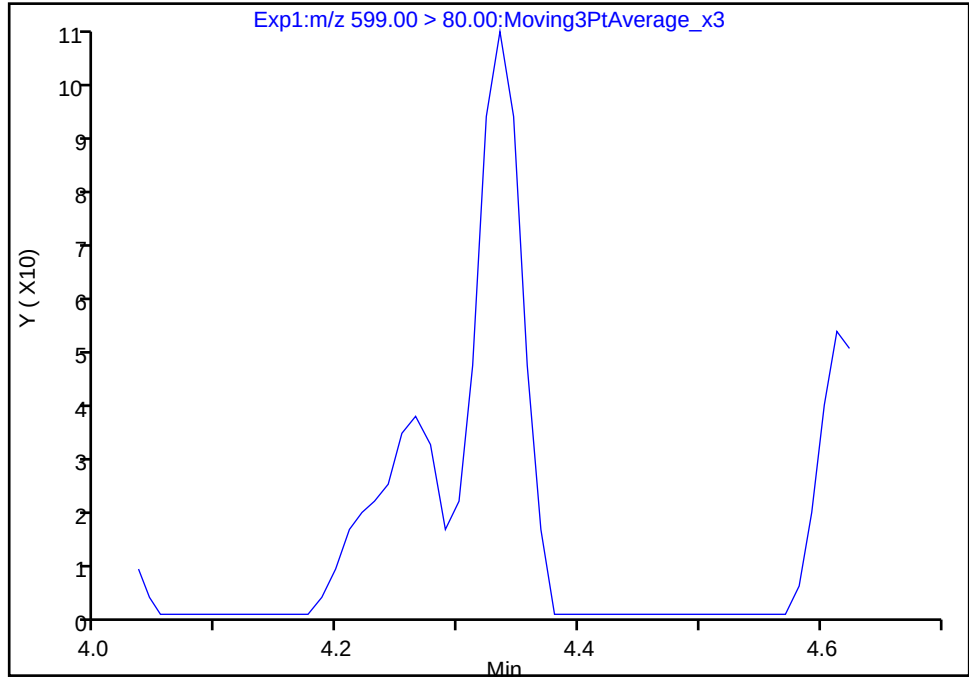
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

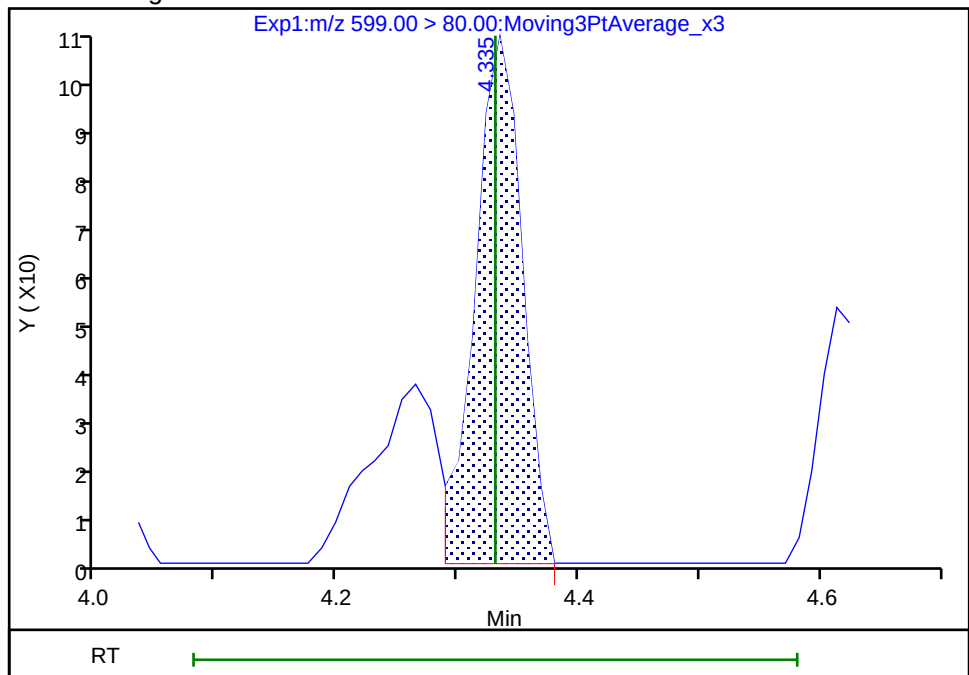
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 277
Amount: 0.000404
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:56:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

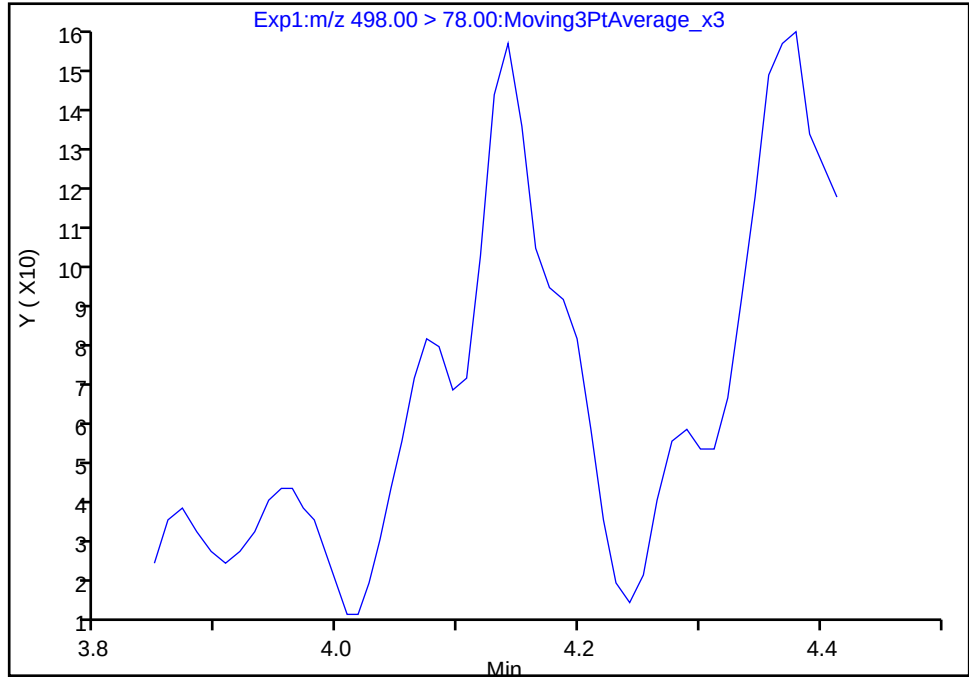
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

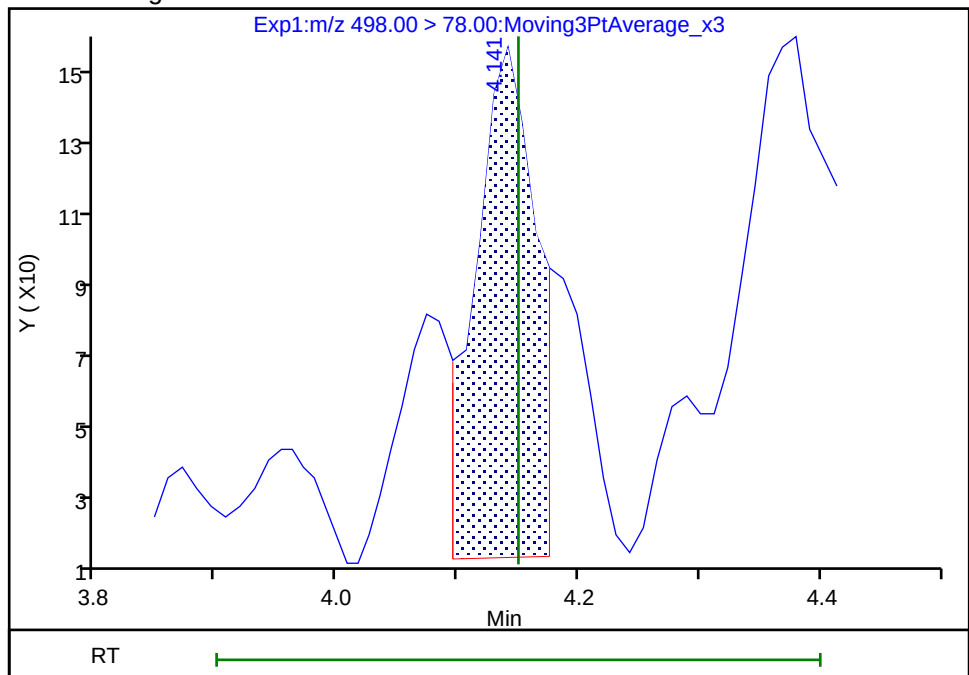
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.14
Area: 483
Amount: 0.000271
Amount Units: ng/ml

Reviewer: nampitakw, 19-Dec-2022 08:56:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

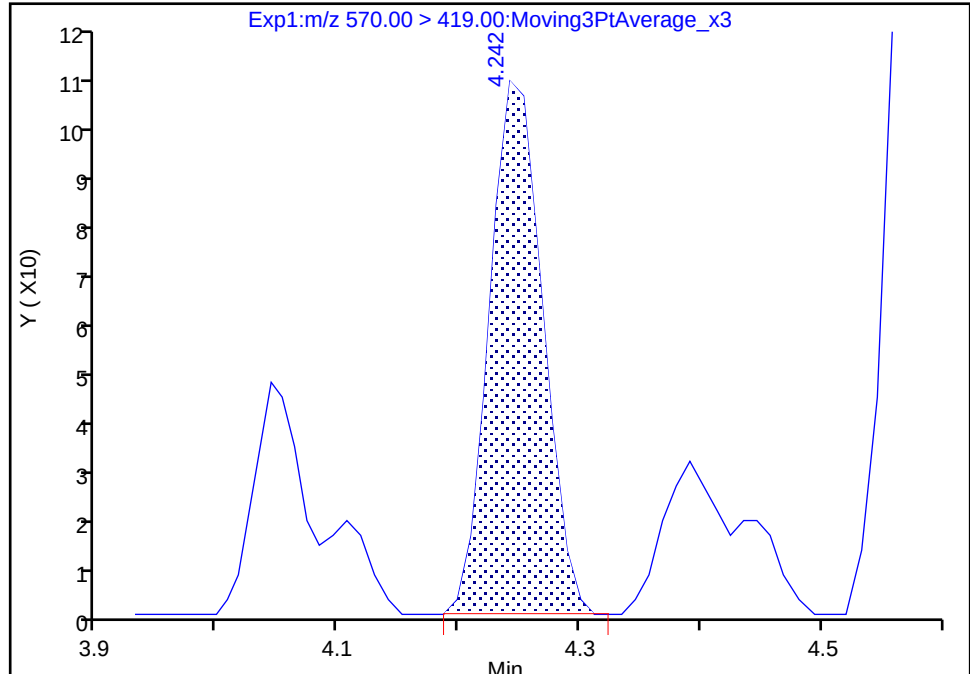
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

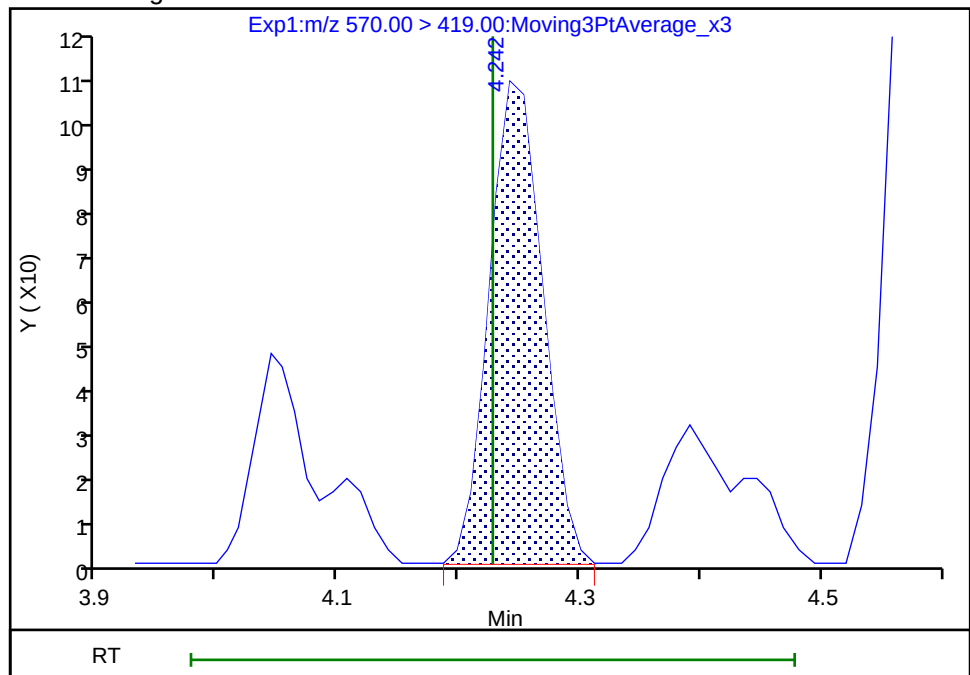
RT: 4.24
Area: 332
Amount: -0.010735
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 332
Amount: -0.010735
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:56:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d

Injection Date: 16-Dec-2022 12:09:39

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#:

1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

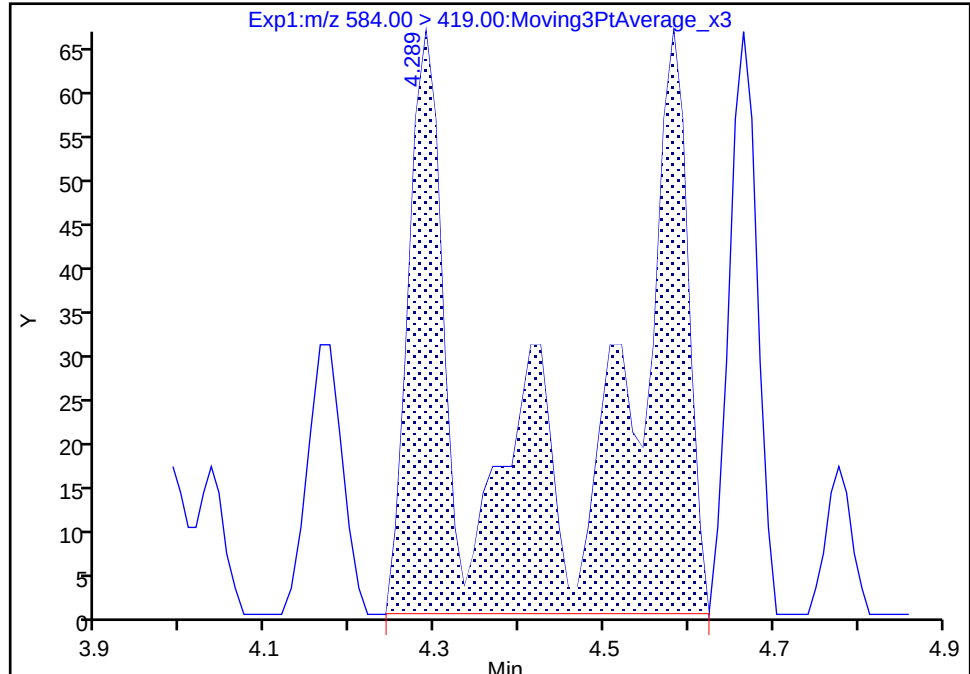
Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

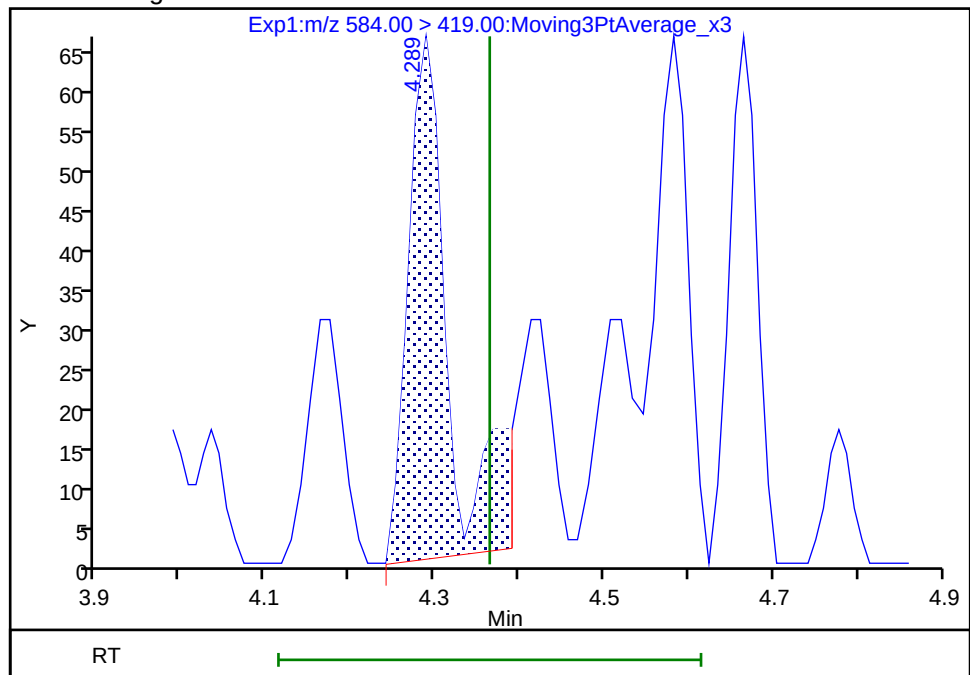
RT: 4.29
Area: 585
Amount: 0.001510
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 218
Amount: 0.000563
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:56:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

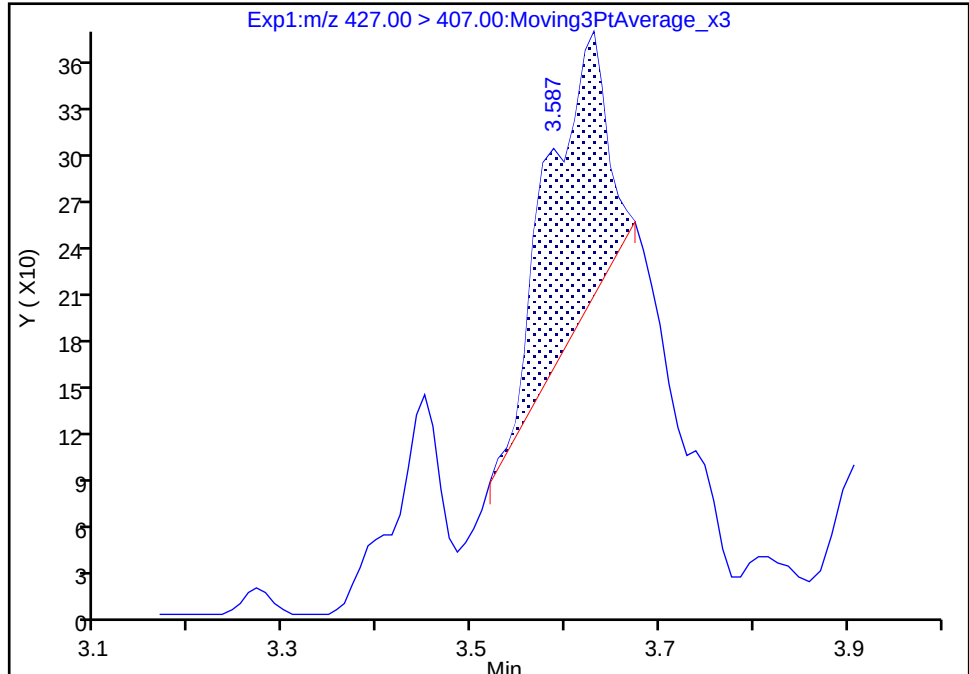
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

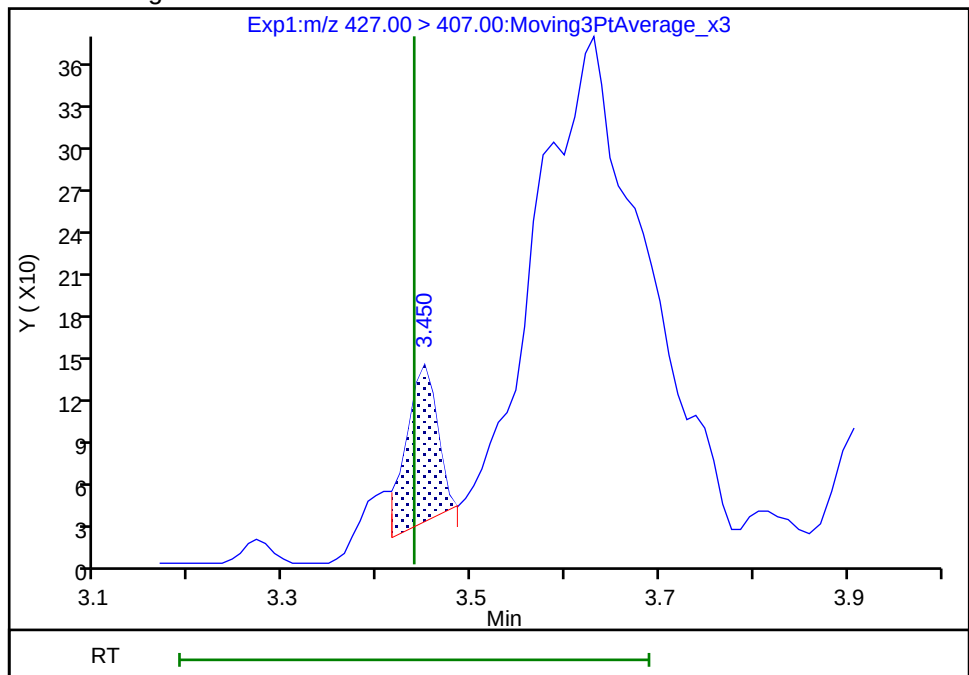
RT: 3.59
Area: 773
Amount: -0.010220
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 254
Amount: -0.011330
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:50:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

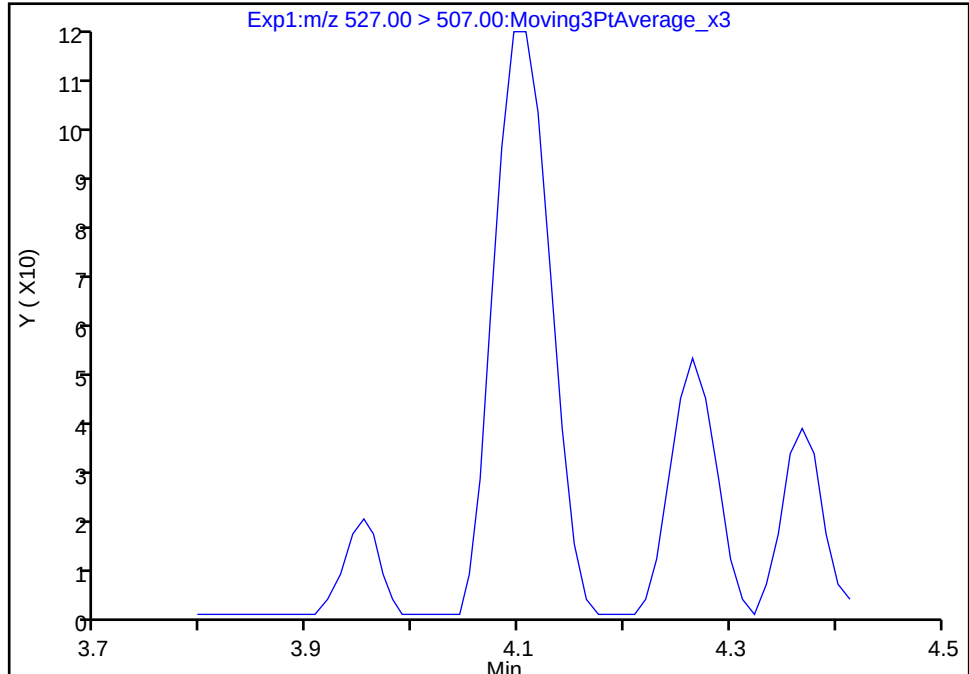
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

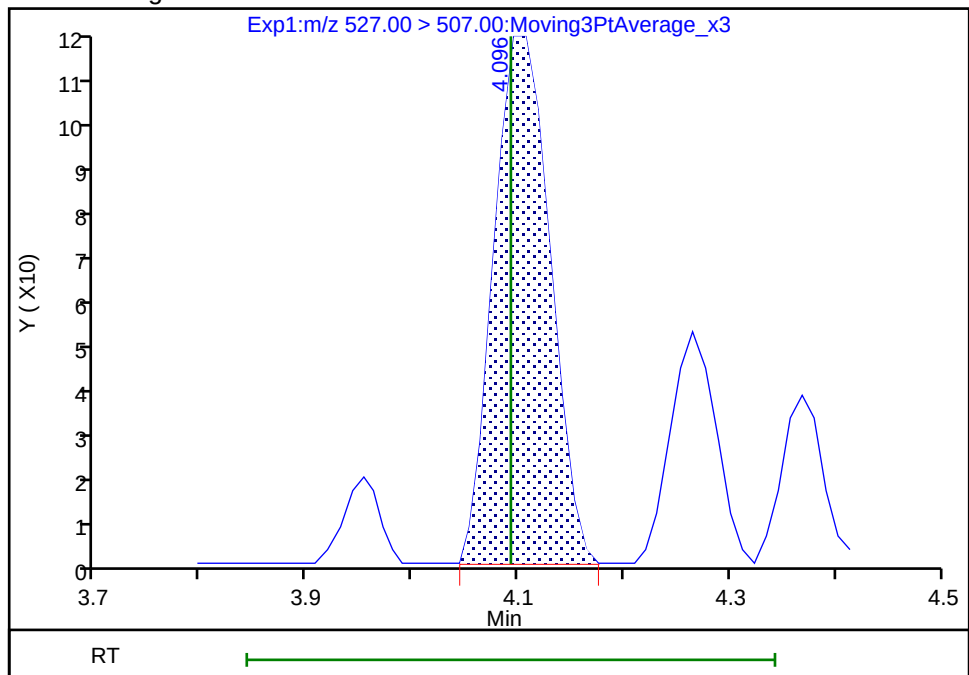
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 431
Amount: 0.000977
Amount Units: ng/ml



Reviewer: nampitakw, 19-Dec-2022 08:56:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

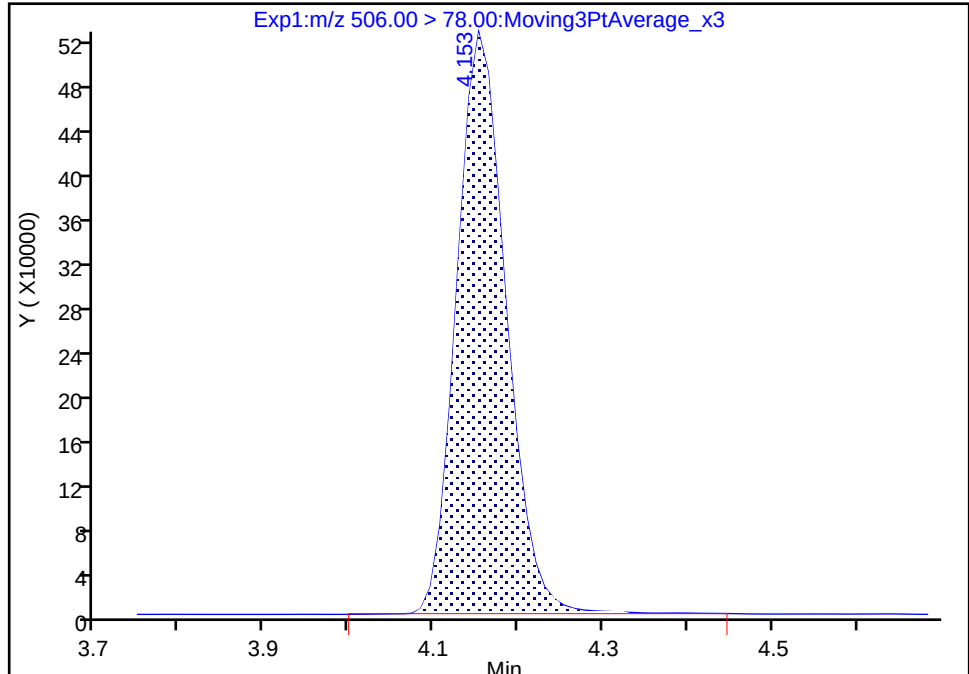
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

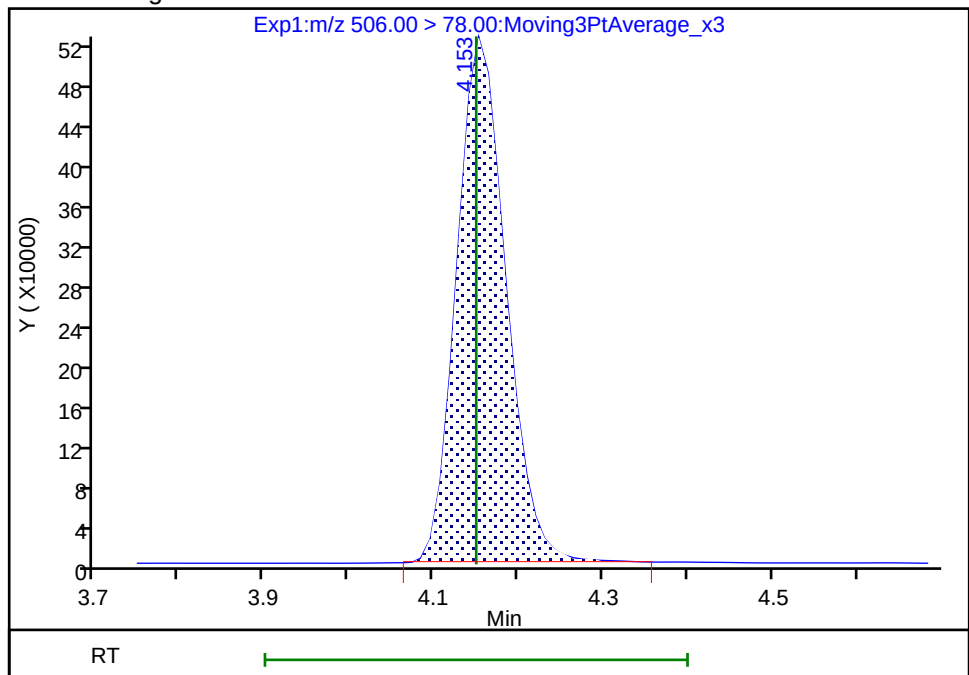
RT: 4.15
Area: 2145833
Amount: 1.243768
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2135102
Amount: 1.237548
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:43:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

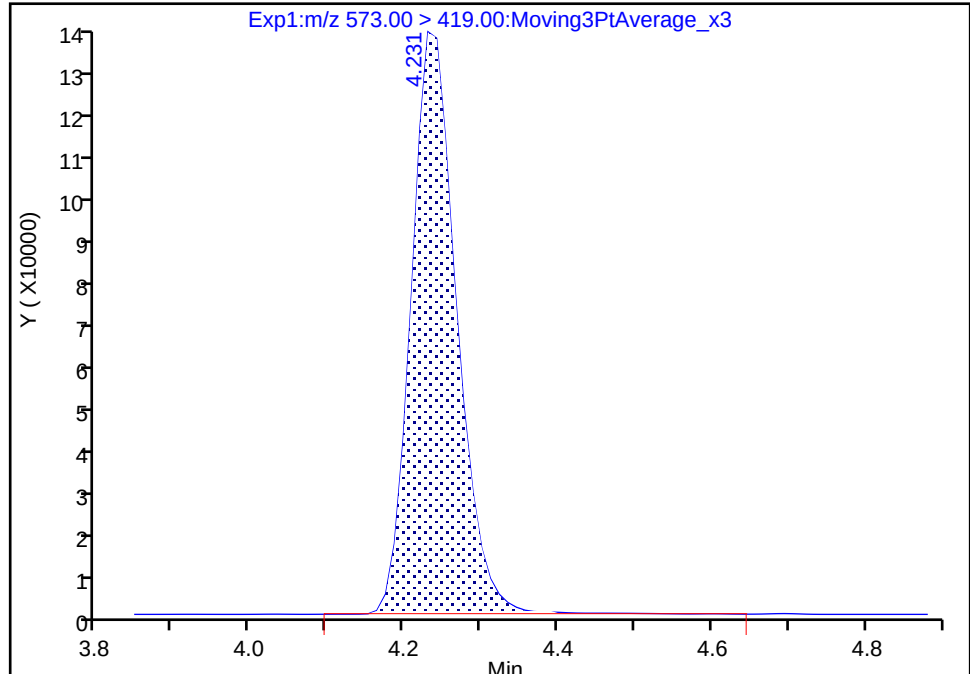
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

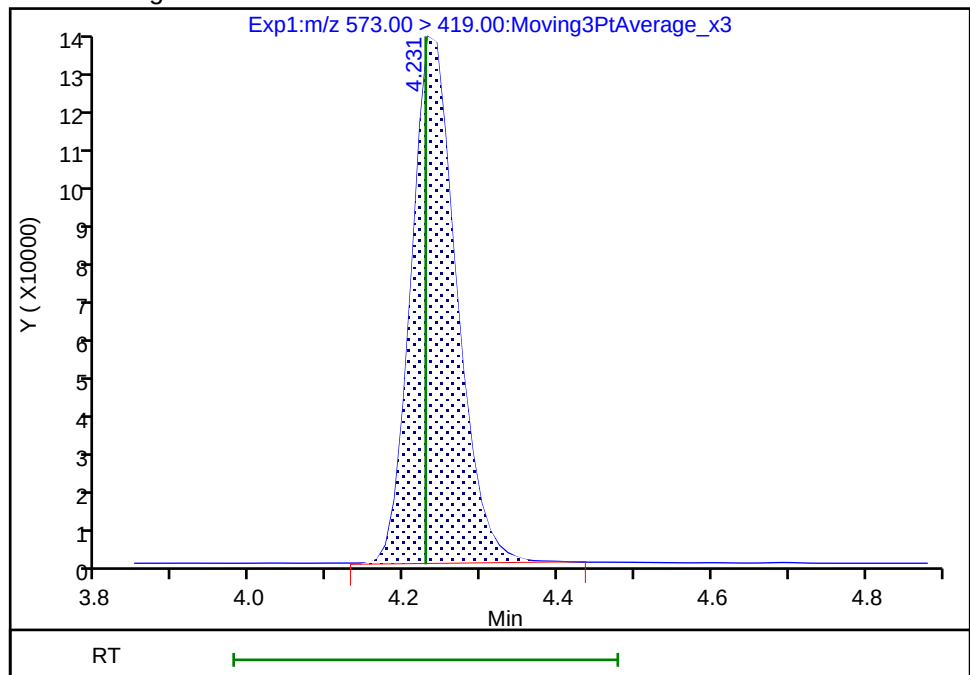
RT: 4.23
Area: 542888
Amount: 1.267019
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 540761
Amount: 1.262055
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:47:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

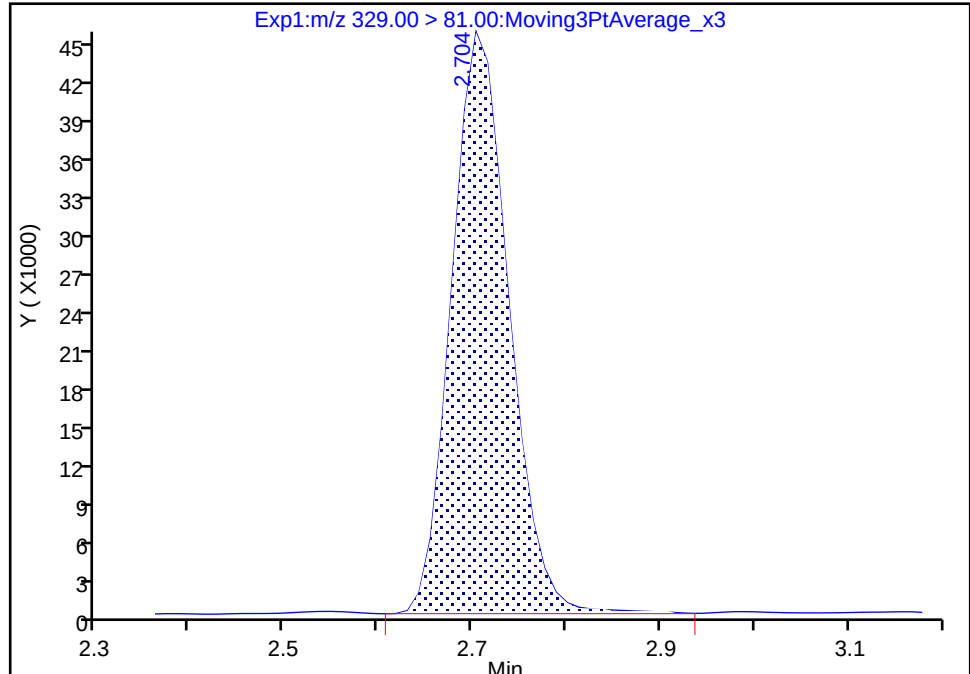
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A04.d
Injection Date: 16-Dec-2022 12:09:39 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

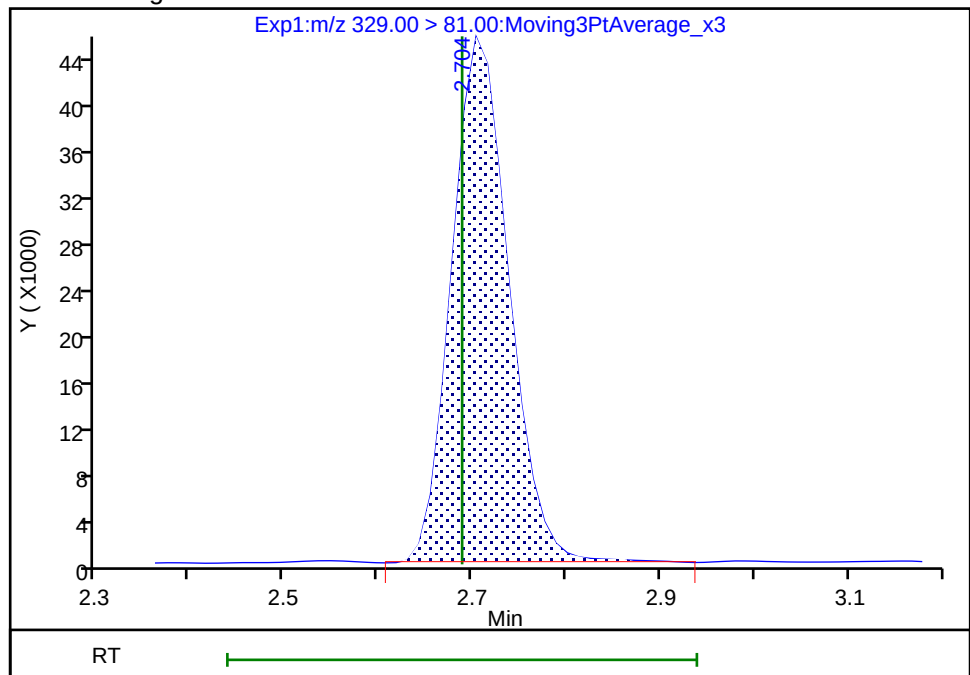
RT: 2.70
Area: 190906
Amount: 1.133738
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 190453
Amount: 1.131047
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 08:43:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 200-185958/11

Matrix: Solid Lab File ID: PA221118ICAL11.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 11/18/2022 15:18

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185958 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.023
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.048
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.040
27619-97-2	6:2 FTS	0.13	U	0.13	0.032
39108-34-4	8:2 FTS	0.050	U	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-185958/11
 Matrix: Solid Lab File ID: PA221118ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 11/18/2022 15:18
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185958 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	108		50-150
STL01892	13C4 PFHpA	108		50-150
STL00990	13C4 PFOA	105		50-150
STL00991	13C4 PFOS	111		50-150
STL00995	13C5 PFNA	107		50-150
STL00992	13C4 PFBA	106		50-150
STL00993	13C2 PFHxA	109		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	107		50-150
STL00998	13C2 PFDoA	107		50-150
STL01056	13C8 FOSA	107		50-150
STL01893	13C5 PFPeA	109		50-150
STL02116	13C2 PFTeDA	107		50-150
STL02118	d3-NMeFOSAA	108		50-150
STL02117	d5-NEtFOSAA	107		50-150
STL02279	M2-6:2 FTS	114		50-150
STL02280	M2-8:2 FTS	108		50-150
STL02337	13C3 PFBS	106		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 18-Nov-2022 15:18:56 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0053396-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 21-Nov-2022 08:33:11 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: Z1IP

Date: 21-Nov-2022 08:27:16

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										M
217.00 > 172.00	2.076	2.076	0.0	0.602	2690789	1.32		106	7033	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.008	10011	0.004510			1.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	2109113	1.36		109	4718	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2084598	1.24		106	323076	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4101	0.001999	Target=2.09		7.4	M
298.90 > 99.00	2.400	2.400	0.0	1.000	1875		2.19(1.04-3.13)		1.5	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	1019	0.002019			19.6	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	191220	1.28		110	184	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2220169	1.37		109	4126	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	736	0.002396			6.3	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	363682	1.27		101	2231	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1571887	1.28		108	5837	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	7928	0.005284	Target=3.66		7.2	M
399.00 > 99.00	3.088	3.088	0.0	1.000	2543		3.12(1.83-5.49)		2.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	2249421	1.35		108	5872	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.099	-0.011	1.000	5399	0.002756	Target=3.97		1.3	
363.00 > 169.00	3.099	3.099	0.0	1.004	1444		3.74(1.98-5.95)		4.1	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	7131	0.001403	Target=3.16		10.3	
377.00 > 85.00	3.132	3.132	0.0	0.832	2232		3.19(1.58-4.73)		4.5	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	278131	1.35		114	814	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.447	3.439	0.008	1.003	978	-0.009896			6.1	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.911	1731	0.001343	Target=5.14		7.5	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	631		2.74(2.57-7.72)		4.2	M
D 14 13C4 PFOA										
417.00 > 372.00	3.447	3.448	-0.001	1.000	2473585	1.32		105	5945	
* 62 13C2 PFOA										
415.00 > 370.00	3.447	3.448	-0.001		2270634	1.25			5212	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.465	3.448	0.017	1.005	5314	0.002512	Target=2.79		0.5	M
413.00 > 169.00	3.447	3.448	-0.001	1.000	2152		2.47(1.40-4.19)		3.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1102903	1.32		111	5728	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.773	3.764	0.009	1.003	6863	0.006115	Target=5.11		1.4	RM
499.00 > 99.00	3.754	3.764	-0.010	0.997	740		9.27(2.55-7.66)		1.0	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	4415	0.002181	Target=8.55		1.1	RM
463.00 > 169.00	3.783	3.783	0.0	1.000	175		25.23(4.28-12.83)		2.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2439752	1.34		107	5749	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	3591	0.001394			17.8	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2433918	1.31		105	4864	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.081	0.0	1.000	5828	0.002760	Target=10.26		3.1	M
513.00 > 169.00	4.081	4.081	0.0	1.000	996		5.85(5.13-15.38)		2.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	326180	1.29		108	1038	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.093	0.011	1.003	1048	0.002379			14.9	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	5835	0.003421			8.3	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2040818	1.34		107	1565	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	512181	1.35		108	3816	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	10172	0.0172		25.3		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	1686	0.002521	Target=2.51	22.5		
599.00 > 99.00	4.319	4.331	-0.012	1.148	530		3.18(1.25-3.76)	6.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2279670	1.34		107	7599	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	6156	0.003349	Target=9.88	3.3		M
563.00 > 169.00	4.353	4.353	0.0	1.000	773		7.96(4.94-14.82)	9.9		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	10302	0.0289		44.5		M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	498484	1.34		107	830	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	7763	0.001955		32.0		
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	6630	0.003355	Target=7.77	0.6		M
613.00 > 169.00	4.602	4.591	0.011	1.002	984		6.74(3.89-11.66)	8.3		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2331608	1.34		107	5785	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	535	0.002021		6.8		M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	595	0.002102	Target=0.50	9.0		M
699.00 > 99.00	4.767	4.776	-0.009	1.267	1589		0.37(0.25-0.76)	19.8		M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.804	-0.001	1.046	7233	0.003827	Target=5.21	0.6		
663.00 > 169.00	4.813	4.804	0.009	1.048	1768		4.09(2.60-7.81)	11.4		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.012	-0.010	0.998	1409	0.006412	Target=0.89	12.0		M
713.00 > 219.00	5.002	5.012	-0.010	0.998	1526		0.92(0.44-1.33)	15.6		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	2006376	1.34		107	4997	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.378	5.367	0.011	1.002	35047	0.002340	Target=5.65	3.3		
813.00 > 169.00	5.367	5.367	0.0	1.000	5819		6.02(2.82-8.47)	38.2		
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.367	5.367	0.0	1.557	2453441	1.32		106	2133	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.722	0.009	1.068	14605	0.009035	Target=6.24	1.8		M
913.00 > 169.00	5.722	5.722	0.0	1.066	2239		6.52(3.12-9.36)	27.5		M

[QC Flag Legend](#)

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

[Reagents:](#)

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d

Injection Date: 18-Nov-2022 15:18:56

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

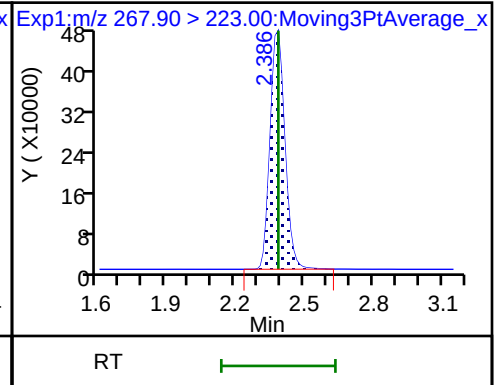
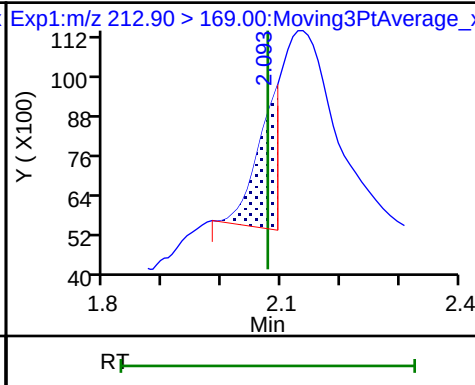
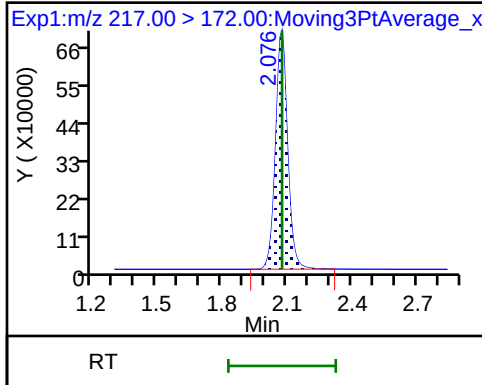
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

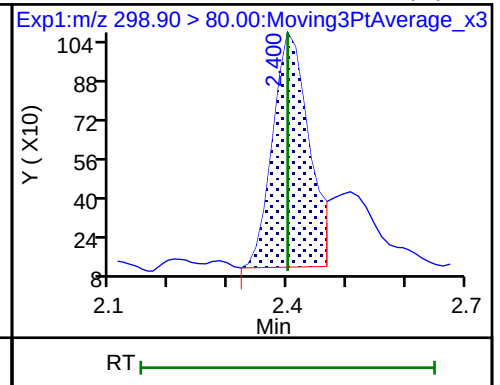
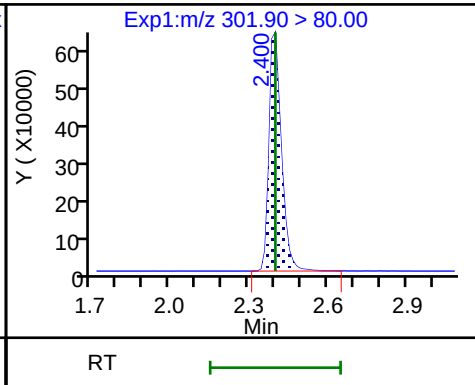
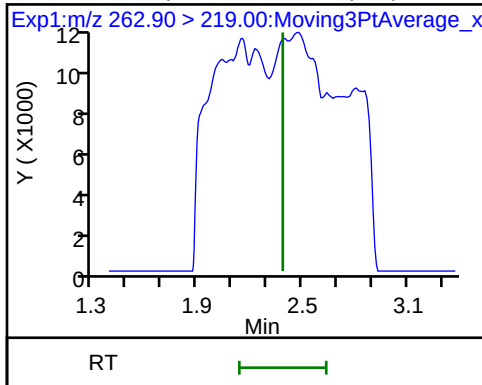
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS

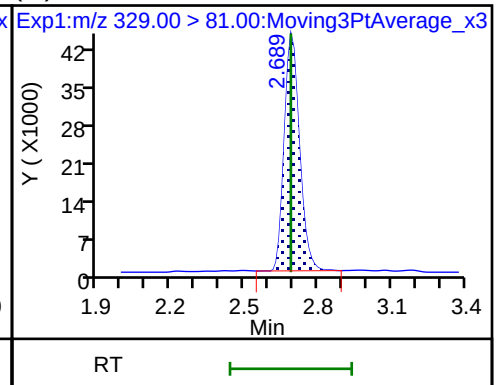
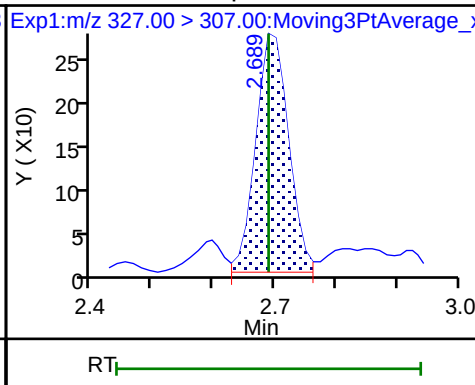
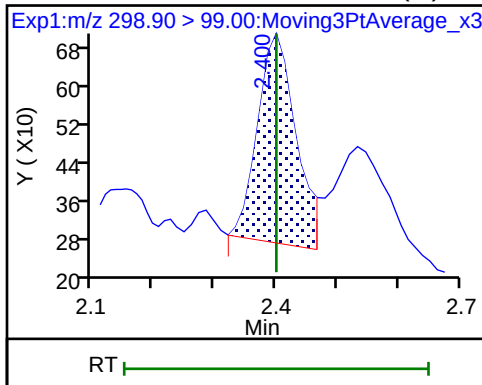
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

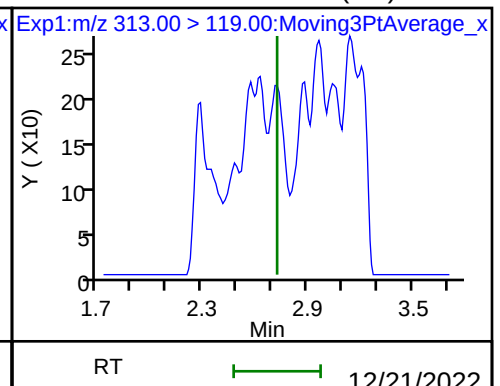
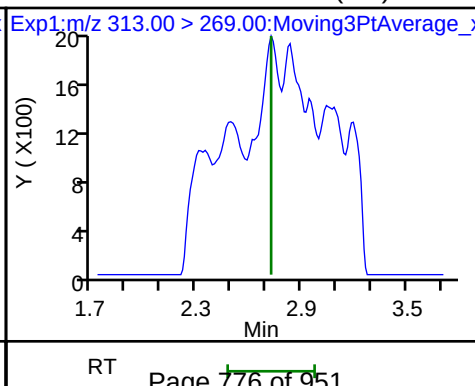
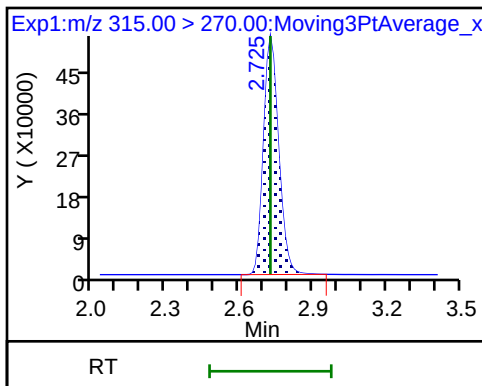
D 50 M2-4:2 FTS



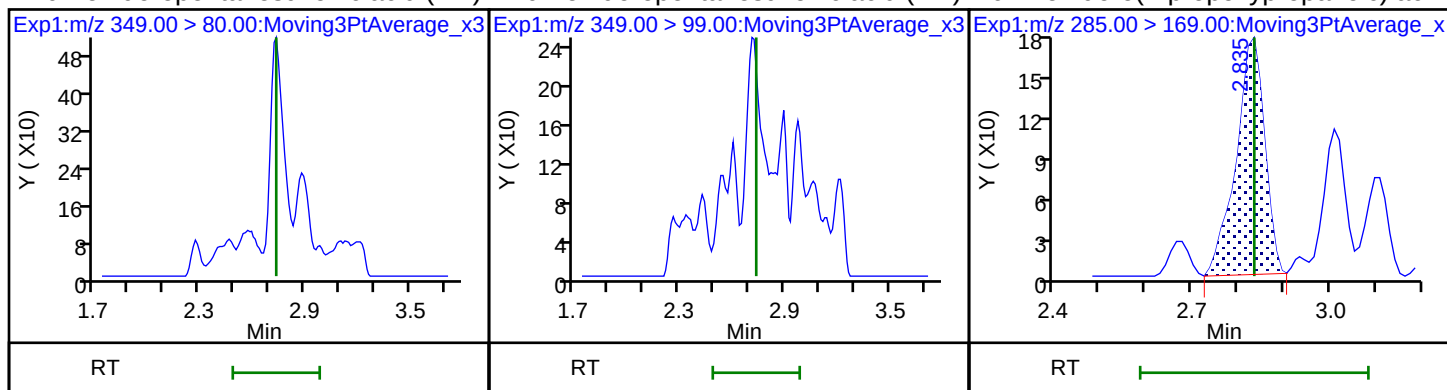
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



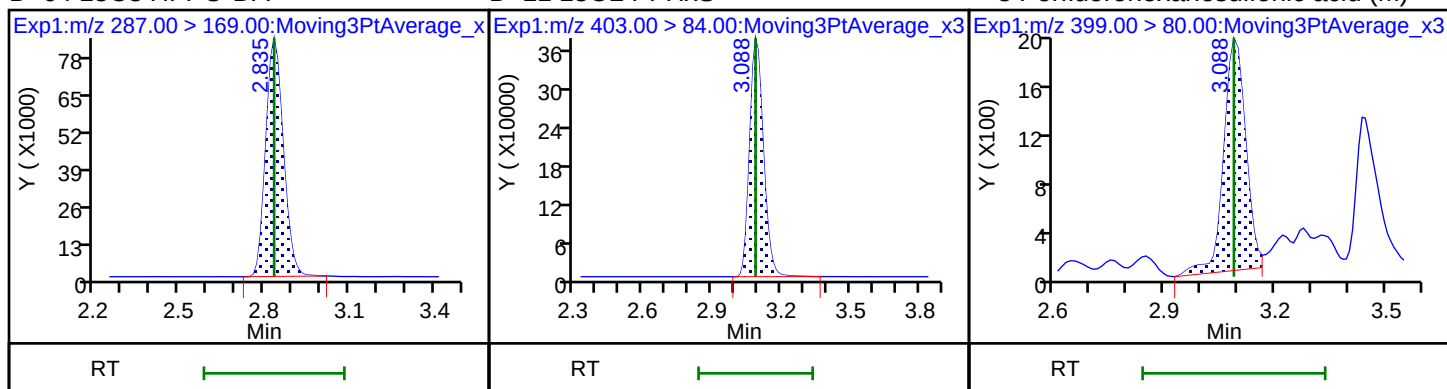
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

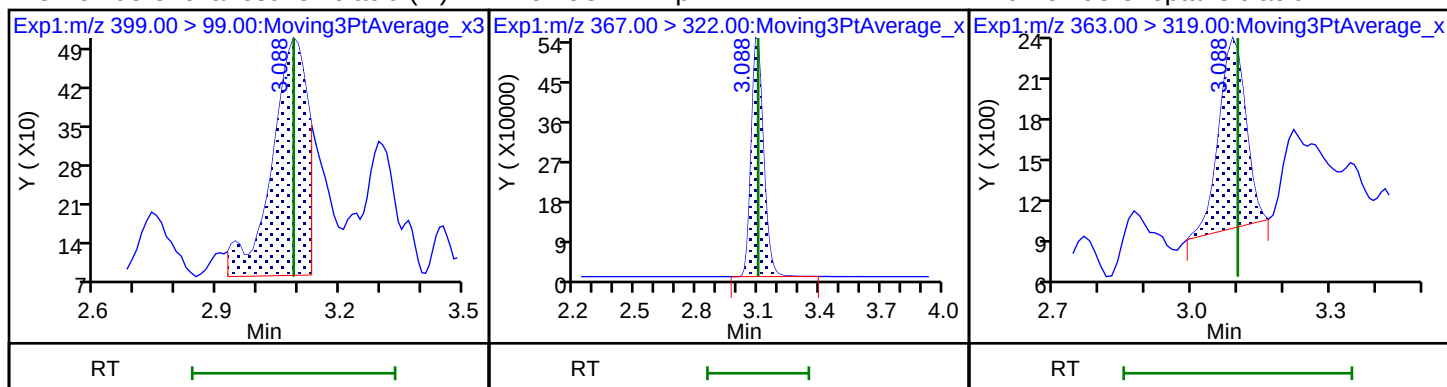
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

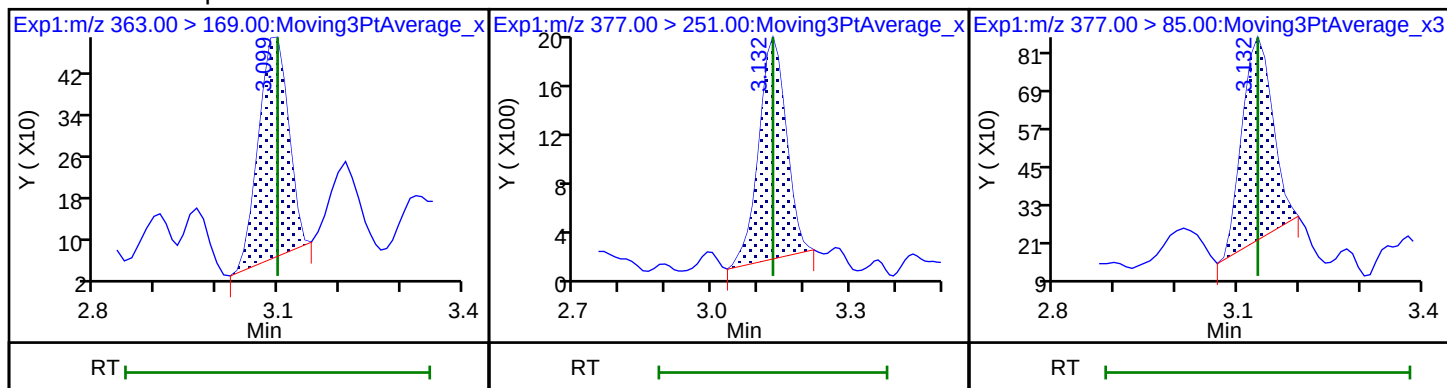
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid

77 DONA

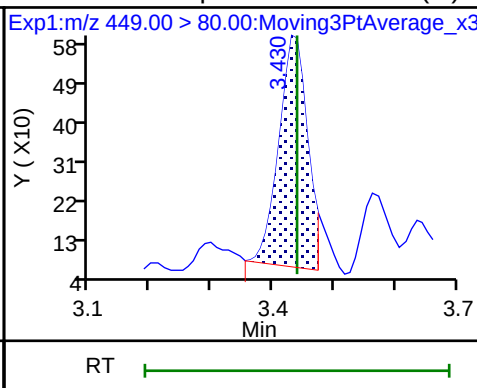
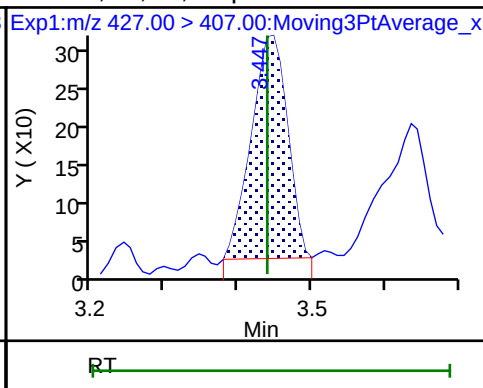
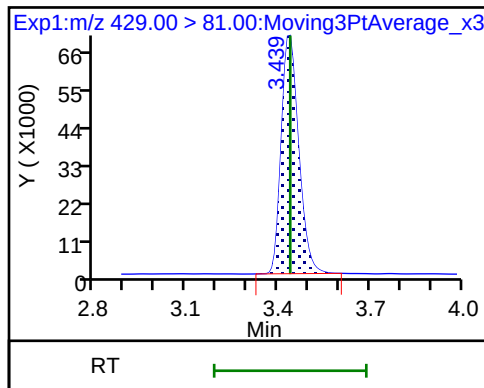
77 DONA



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

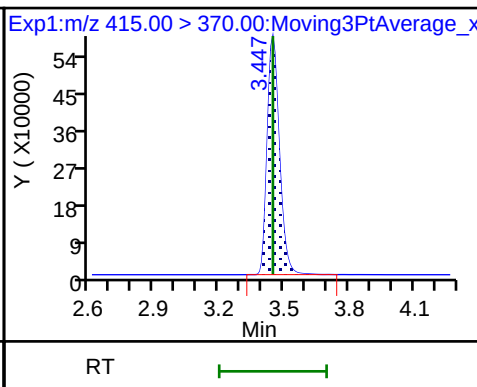
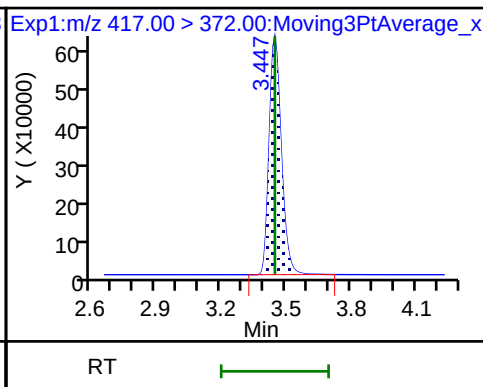
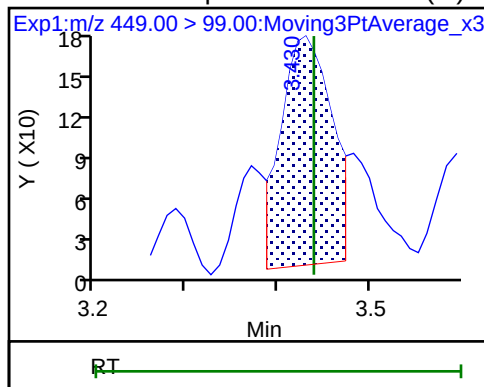
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

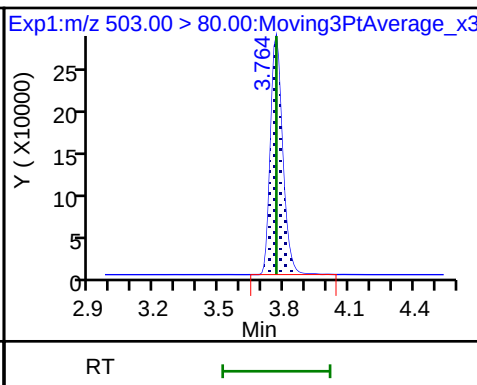
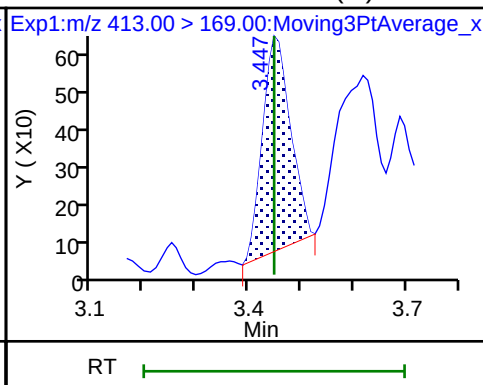
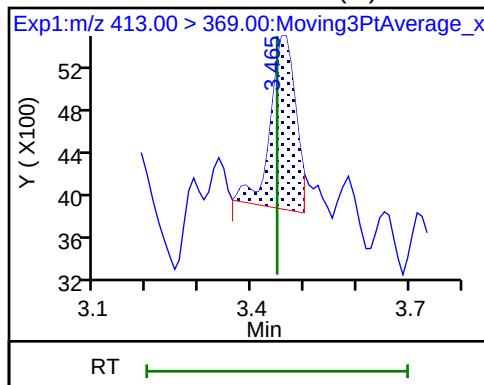
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

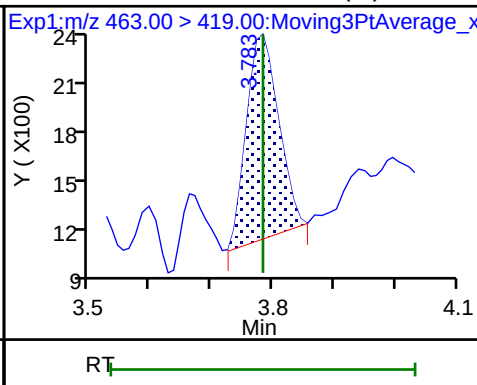
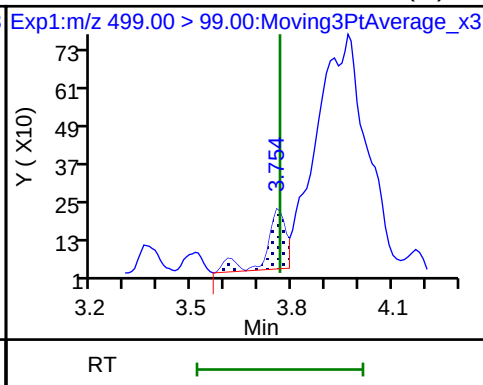
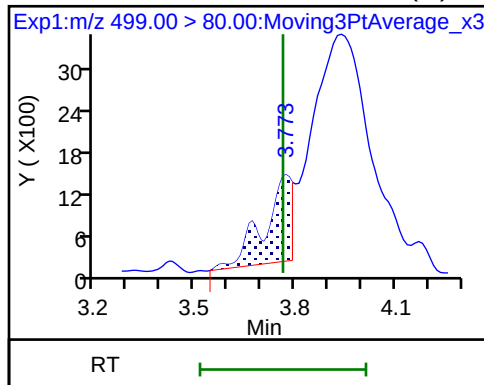
D 18 13C4 PFOS

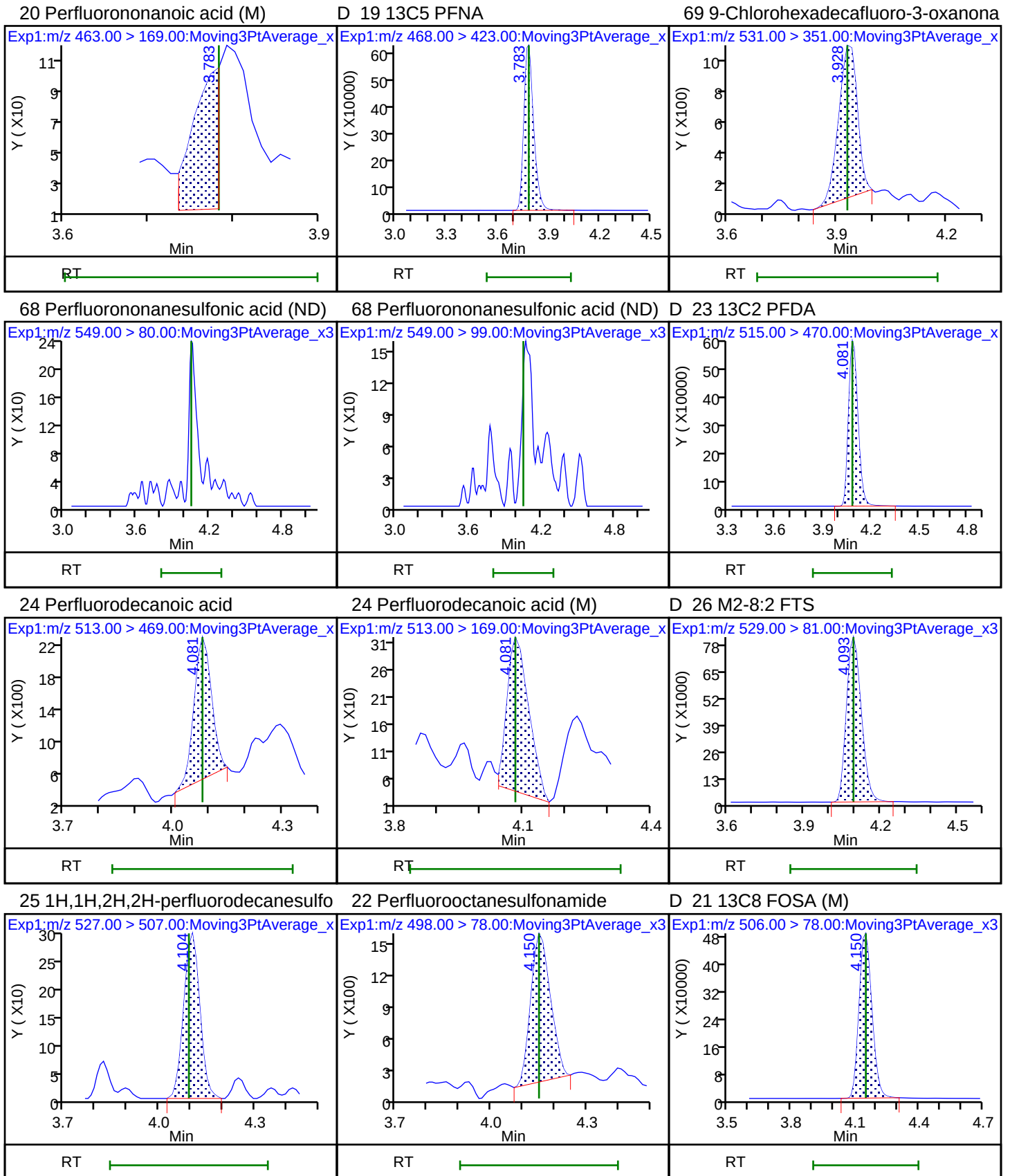


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

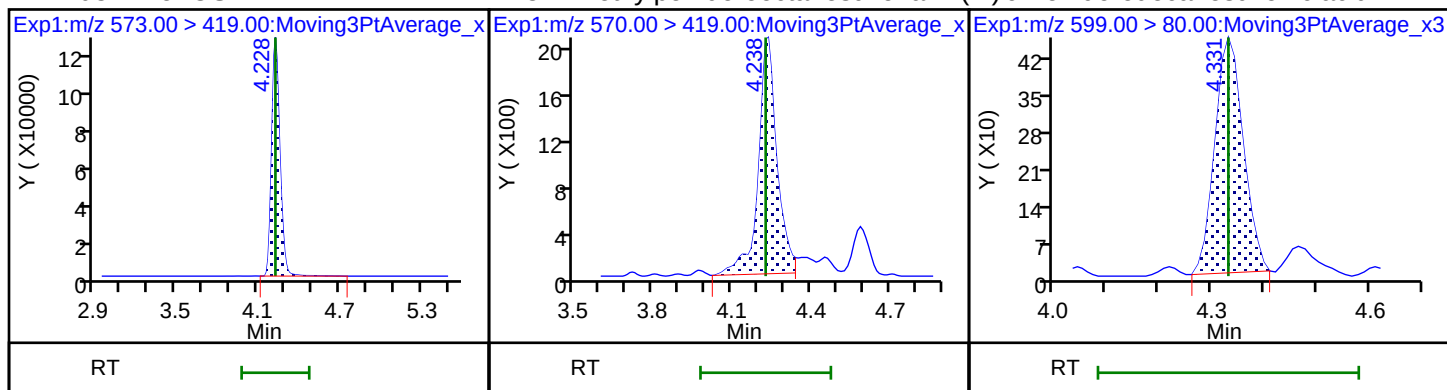
20 Perfluorononanoic acid (M)





D 27 d3-NMeFOSAA

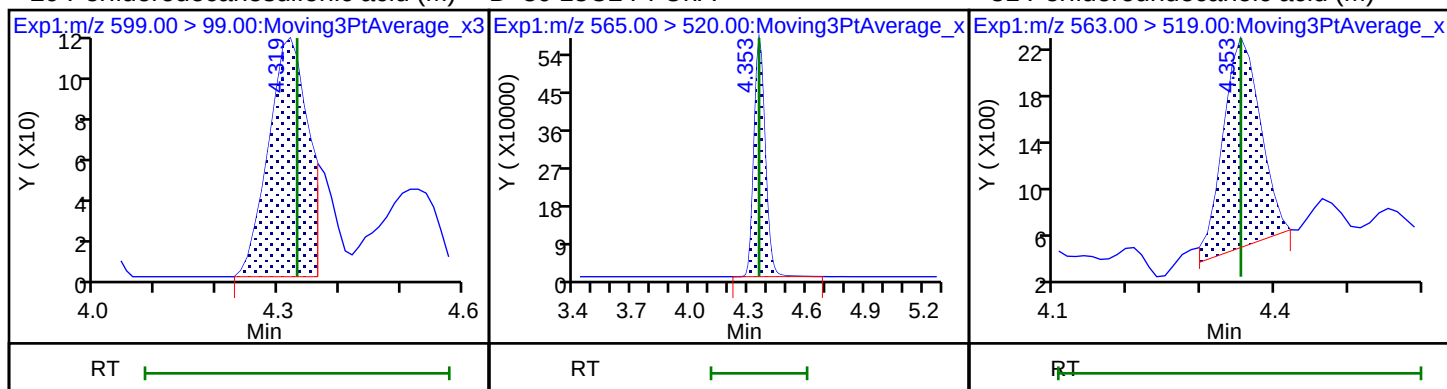
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

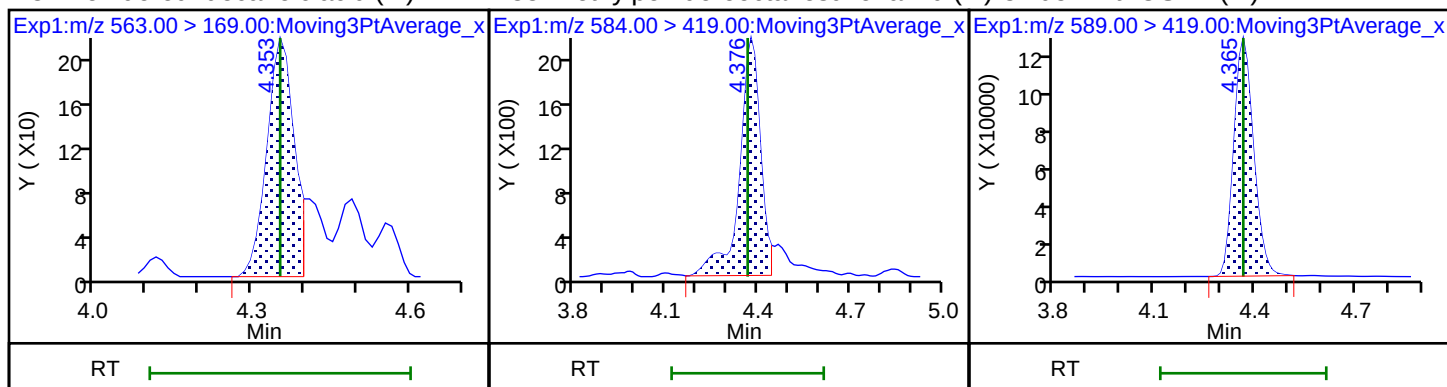
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

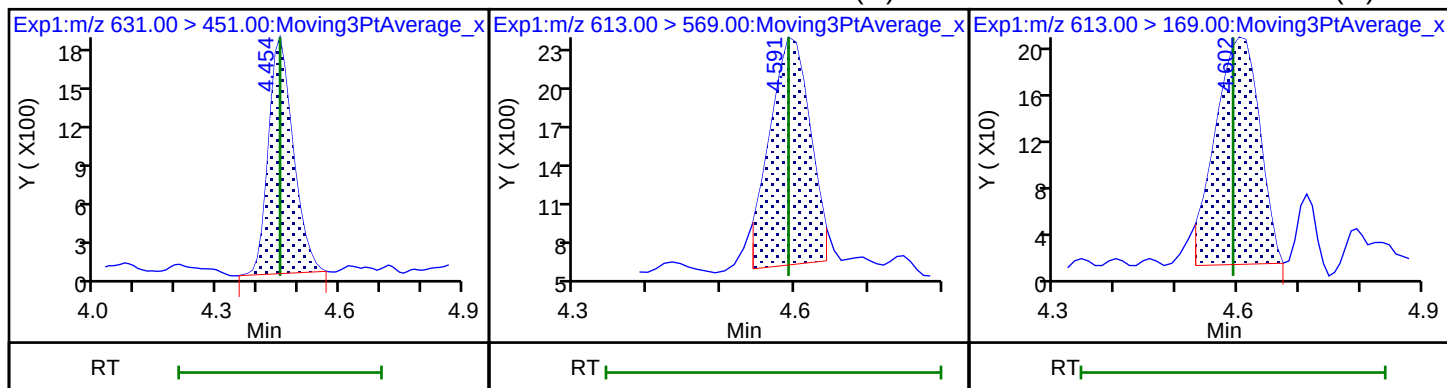
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

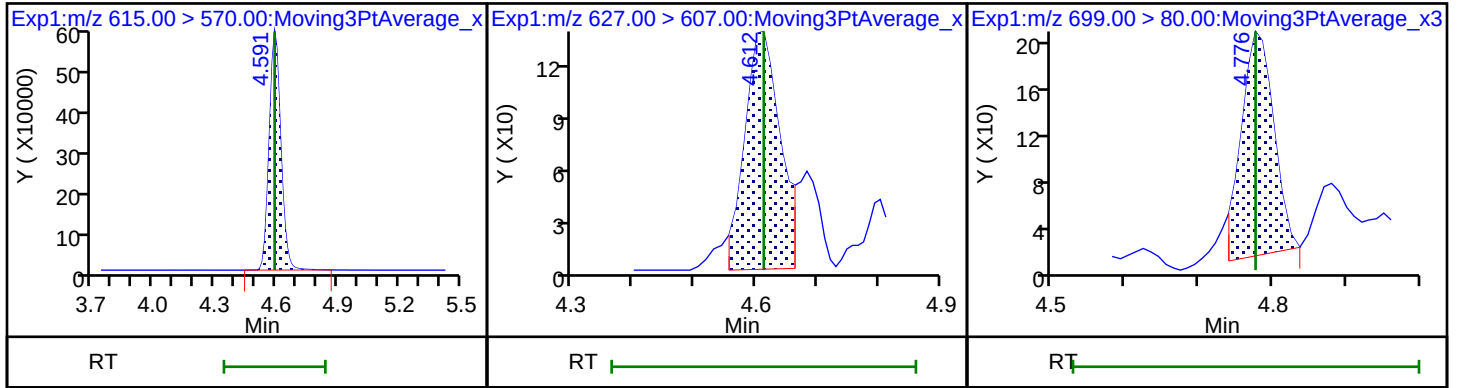
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



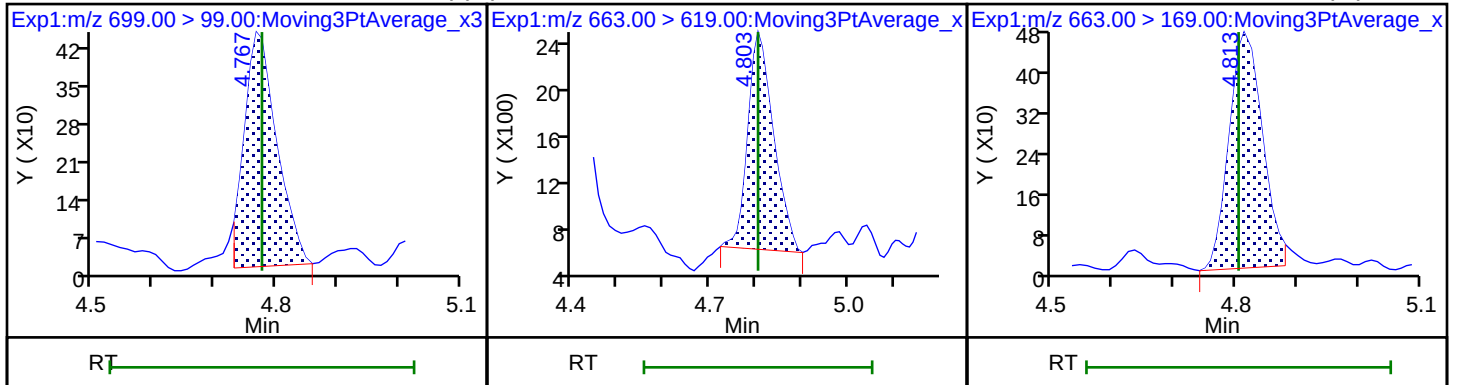
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid

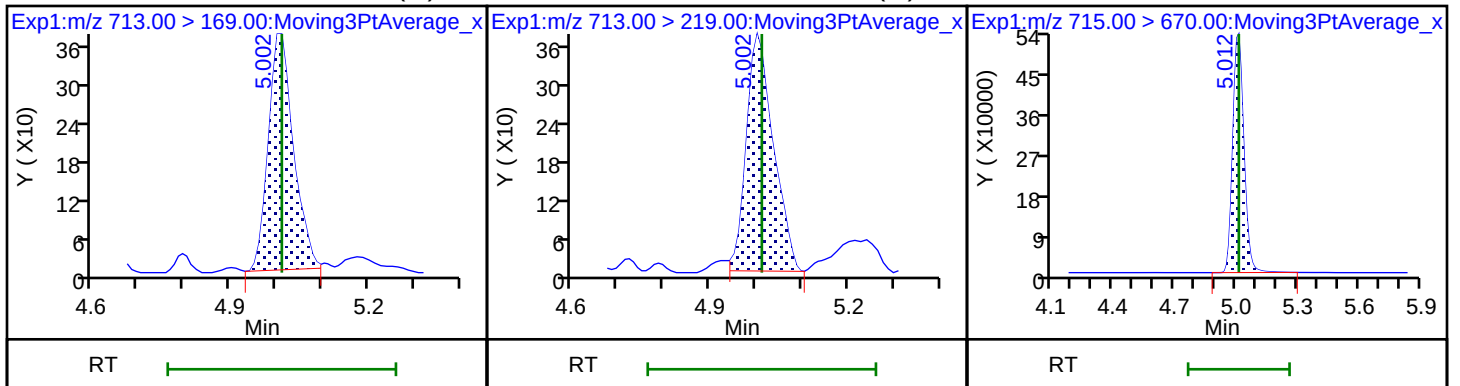
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

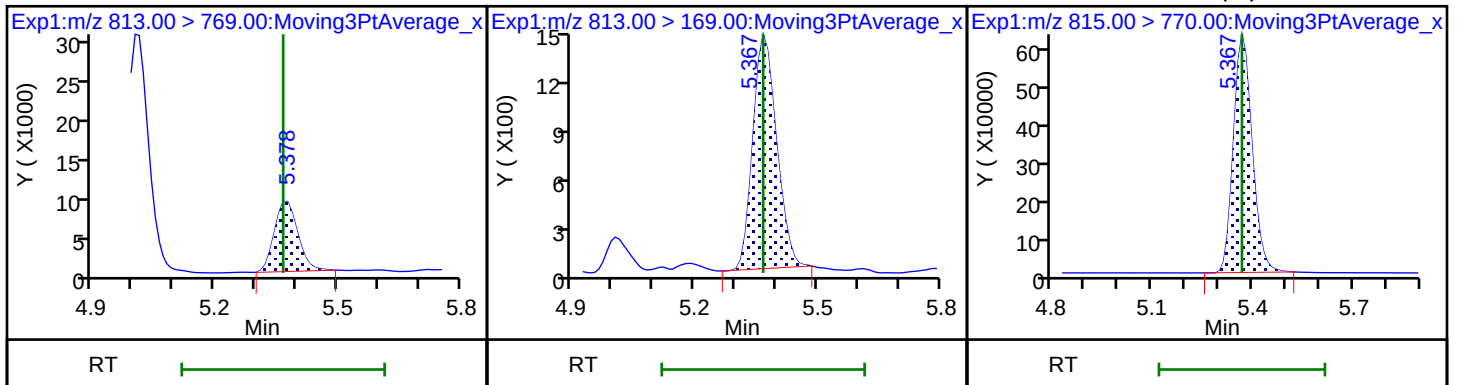
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

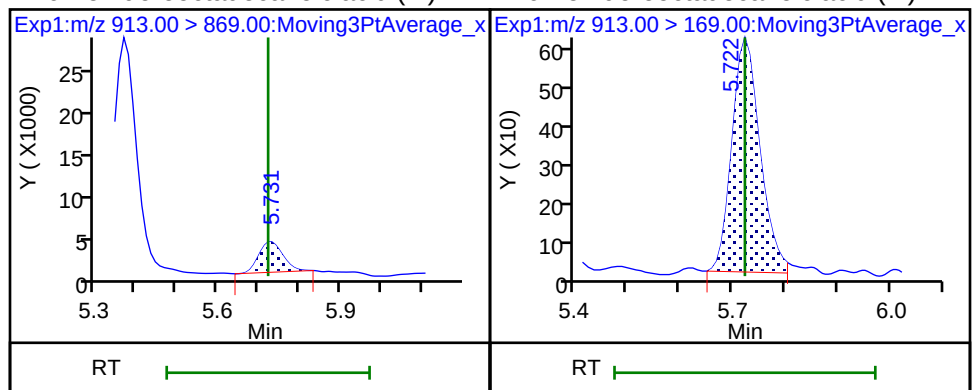
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

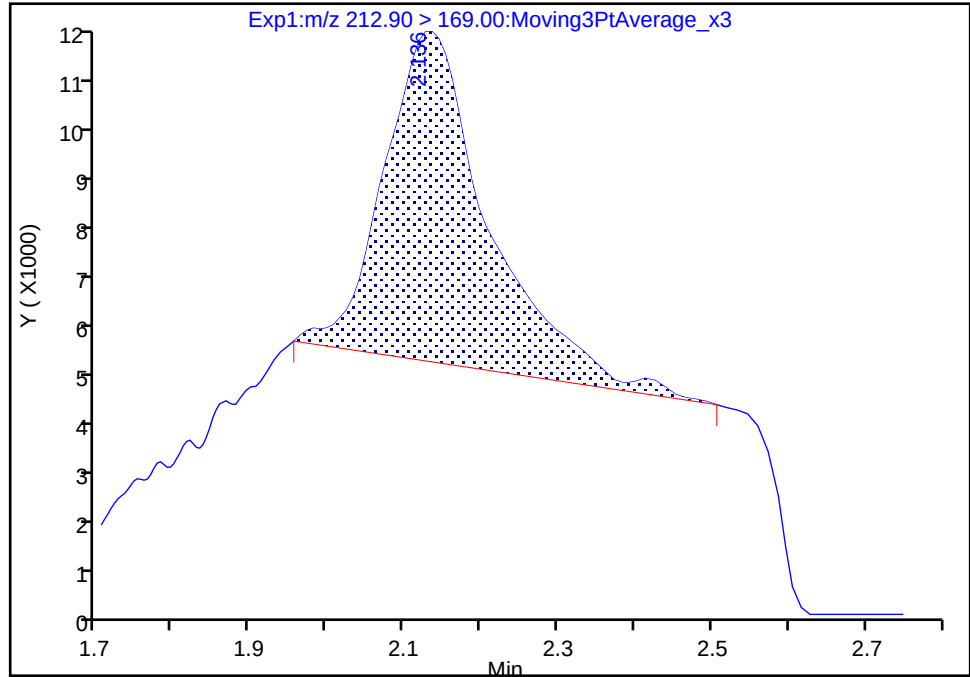
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Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

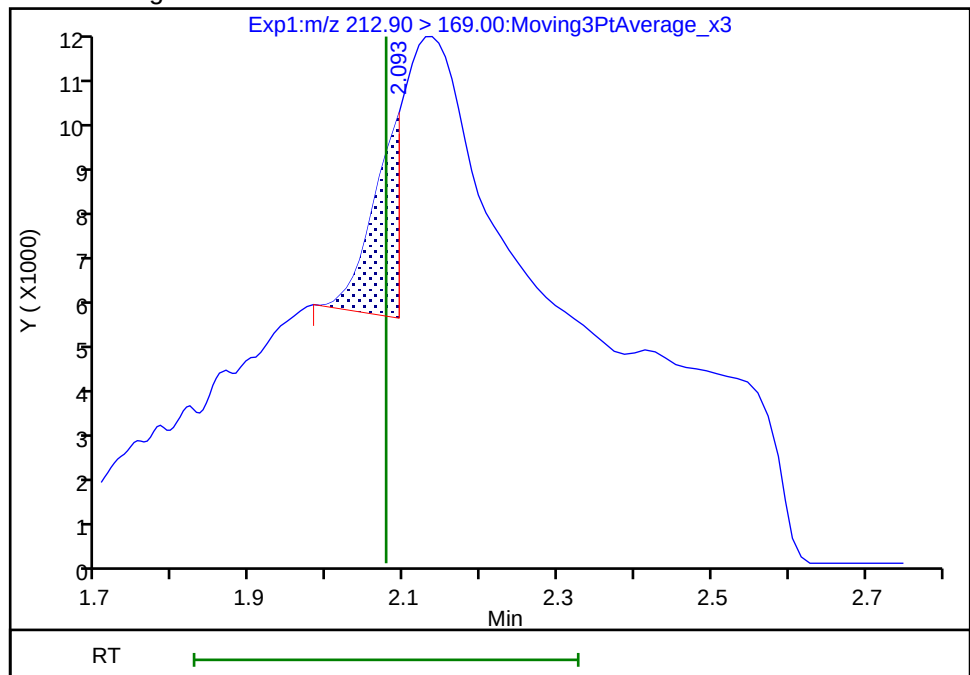
RT: 2.14
Area: 60893
Amount: 0.027432
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 10011
Amount: 0.004510
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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12/21/2022
3:12 PM

Eurofins Burlington

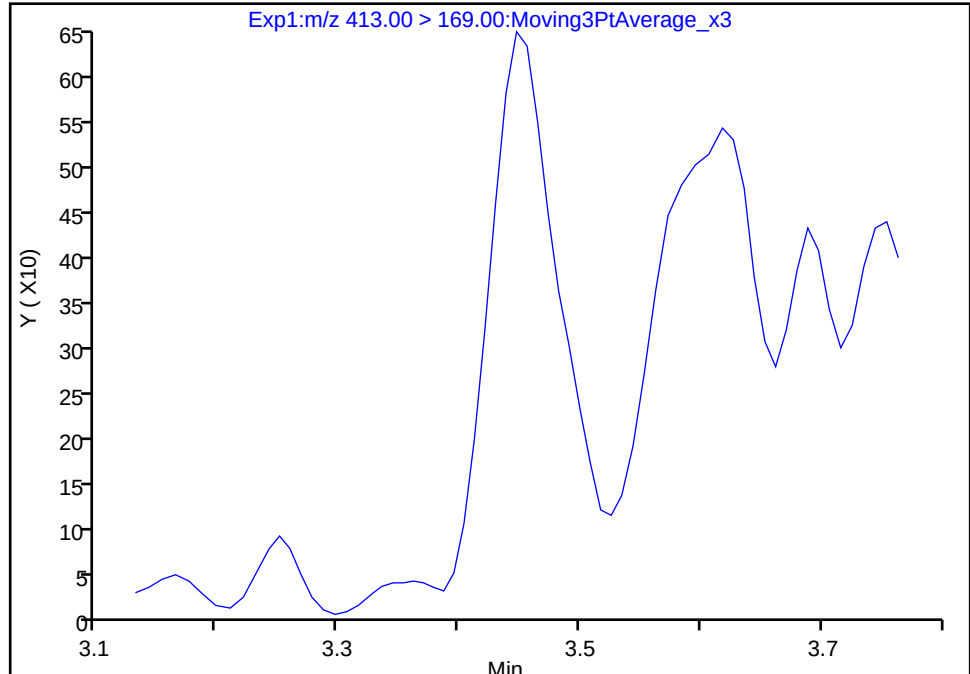
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

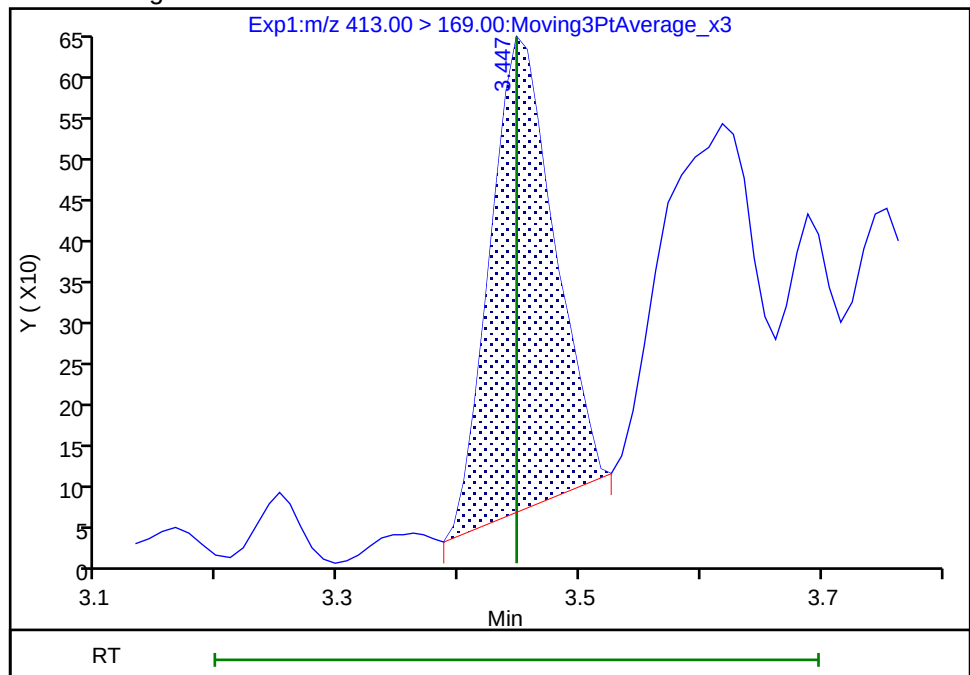
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 2152
Amount: 0.002512
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:22:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

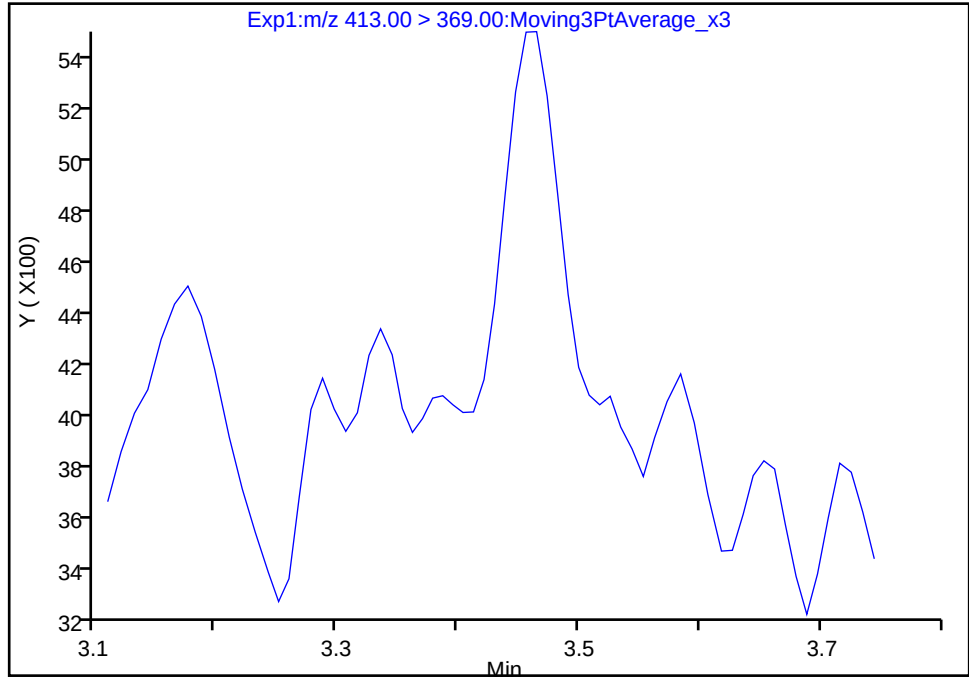
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Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

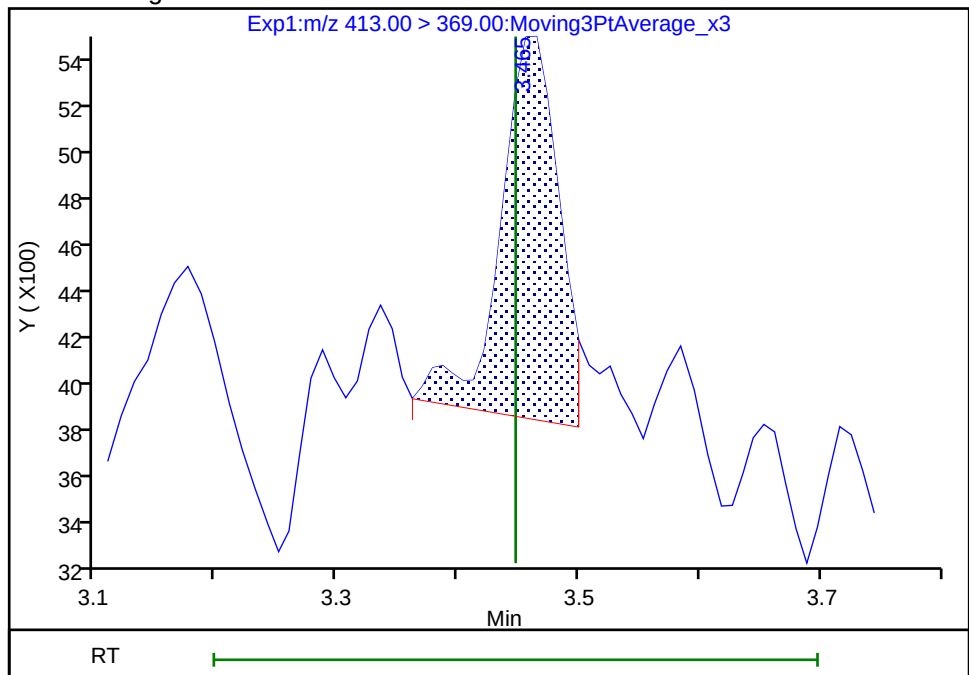
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 5314
Amount: 0.002512
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:22:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

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3:12 PM

Eurofins Burlington

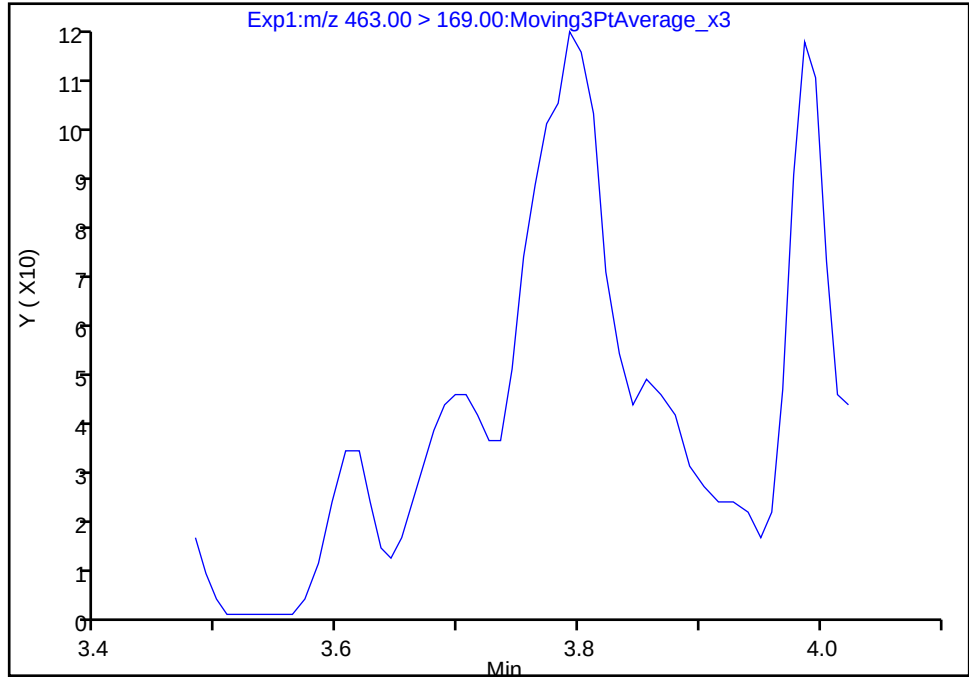
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Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

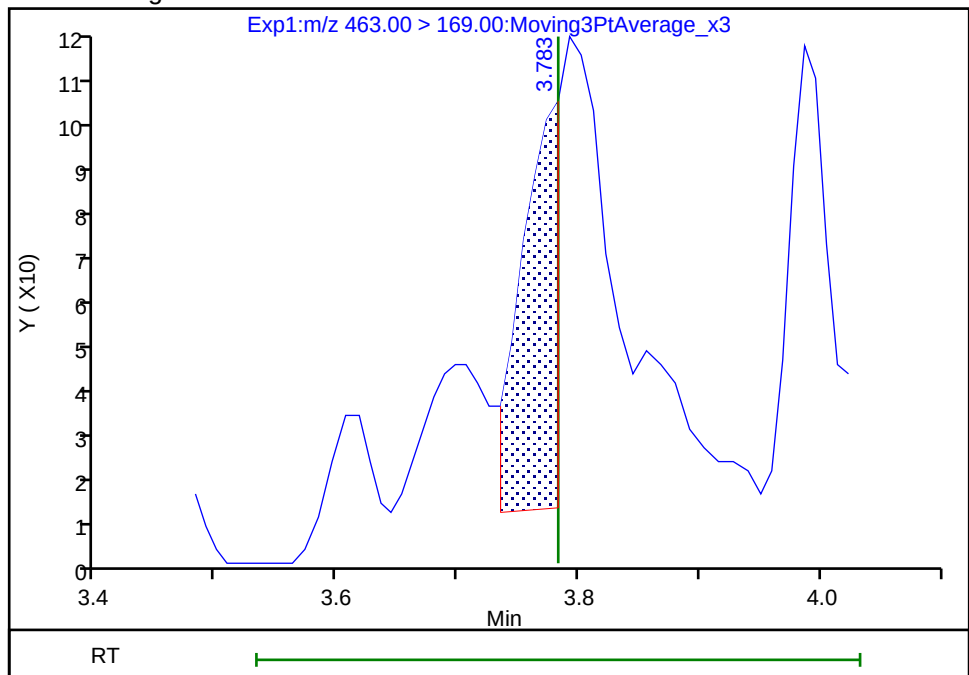
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 175
Amount: 0.002181
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:23:26
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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3:12 PM

Eurofins Burlington

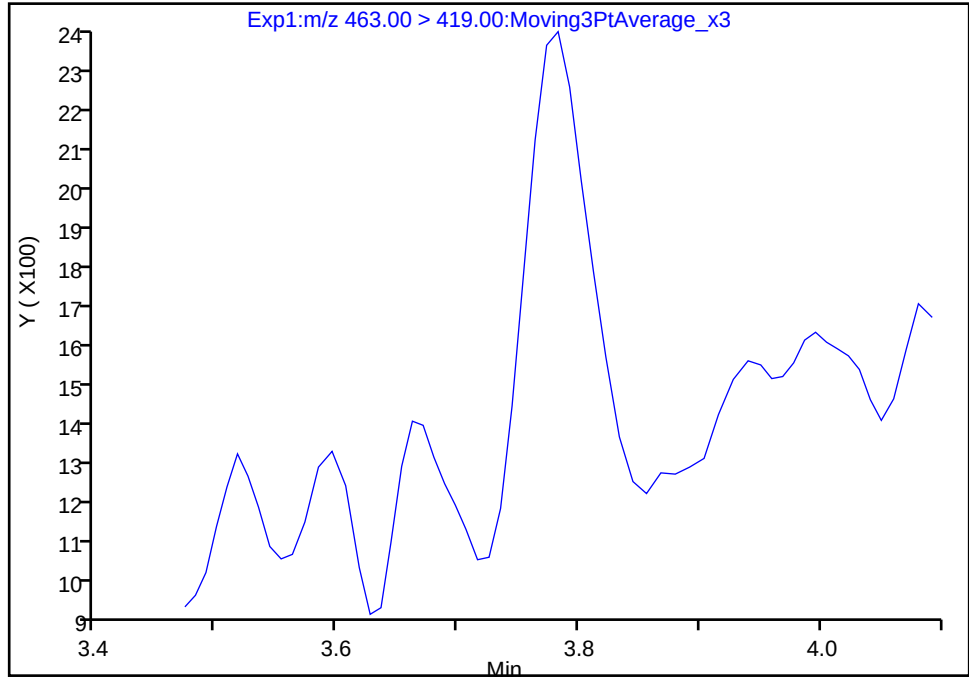
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

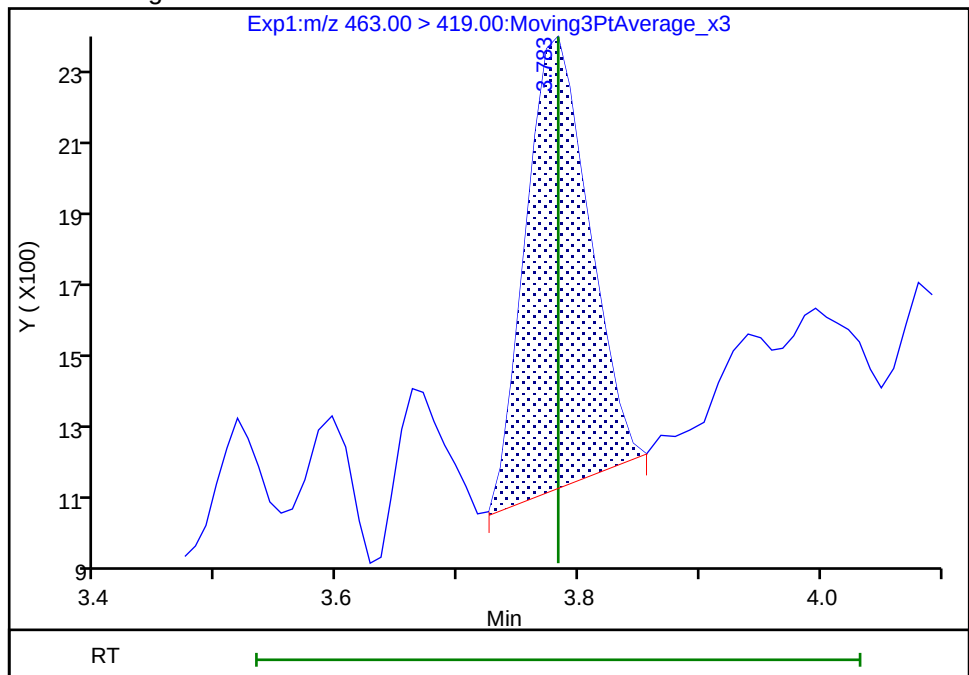
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 4415
Amount: 0.002181
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:23:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak
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3:12 PM

Eurofins Burlington

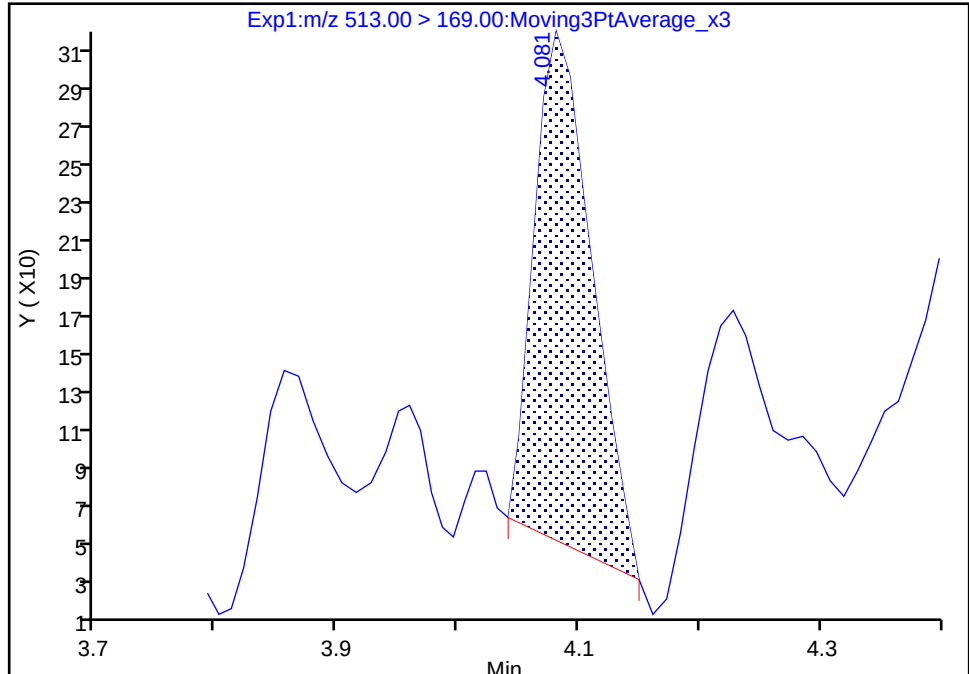
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Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

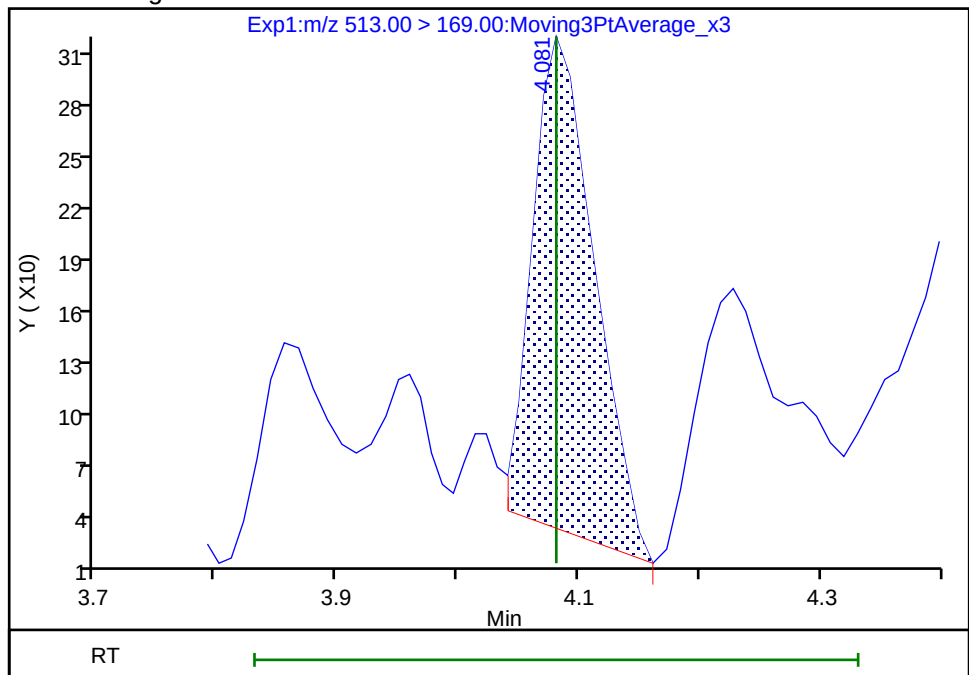
RT: 4.08
Area: 876
Amount: 0.002760
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 996
Amount: 0.002760
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:54
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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12/21/2022
3:12 PM

Eurofins Burlington

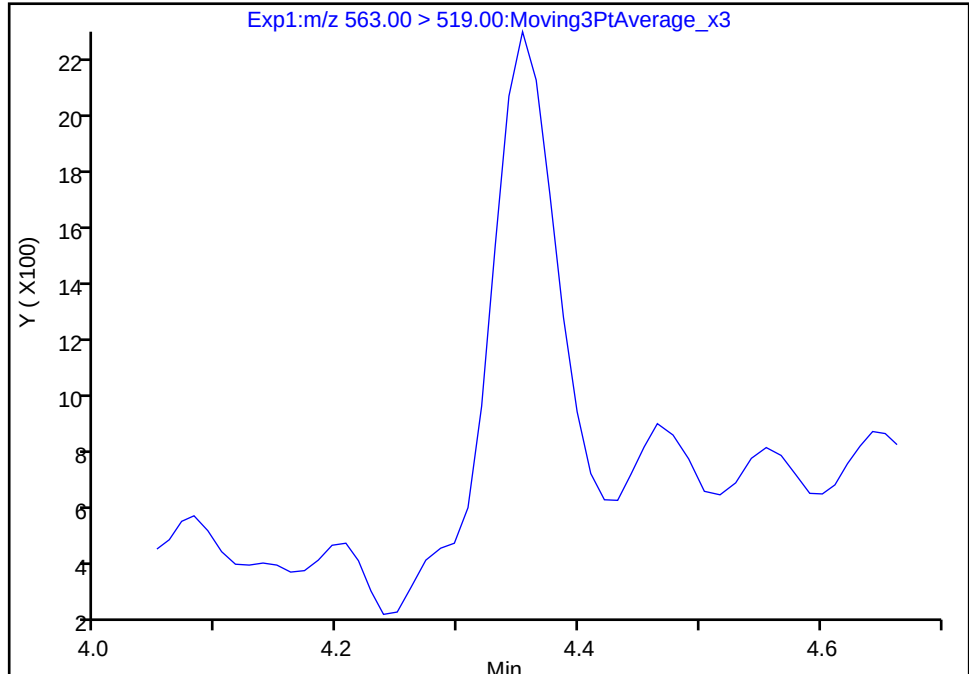
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

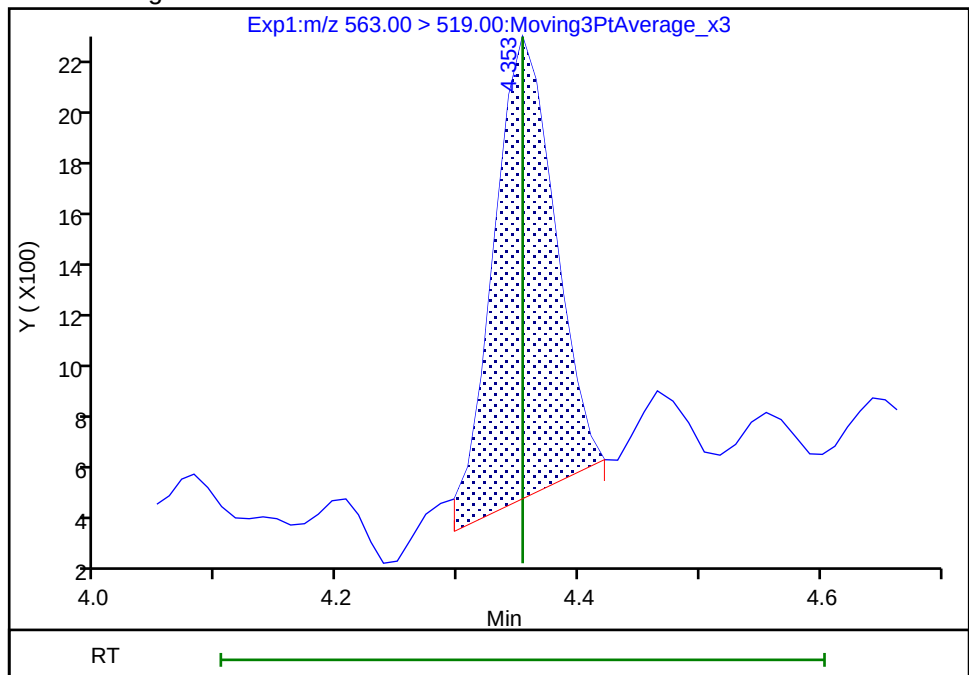
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 6156
Amount: 0.003349
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:24:41

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

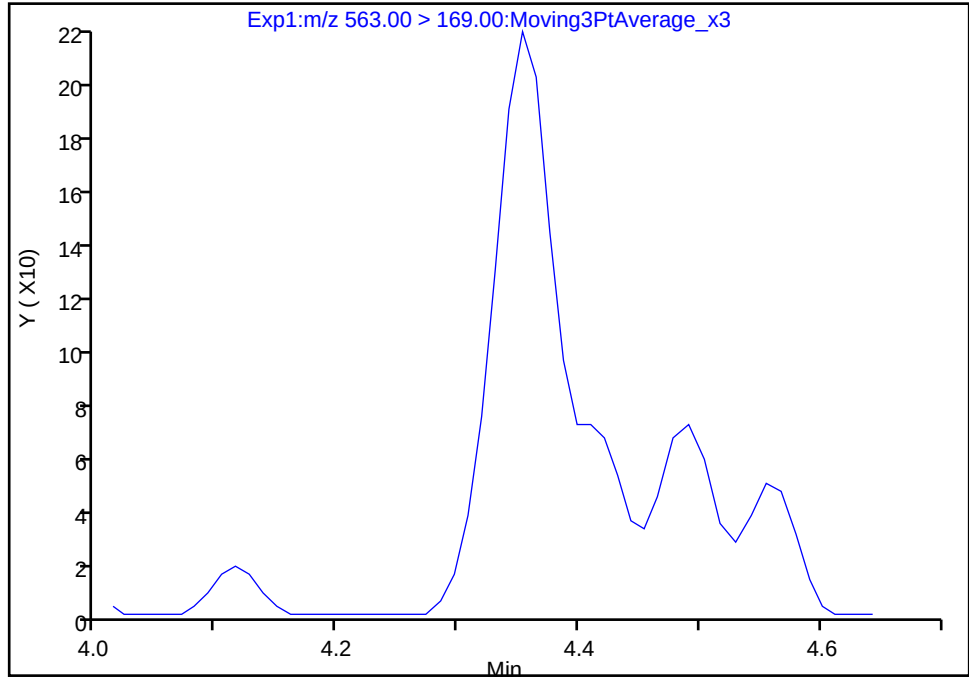
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

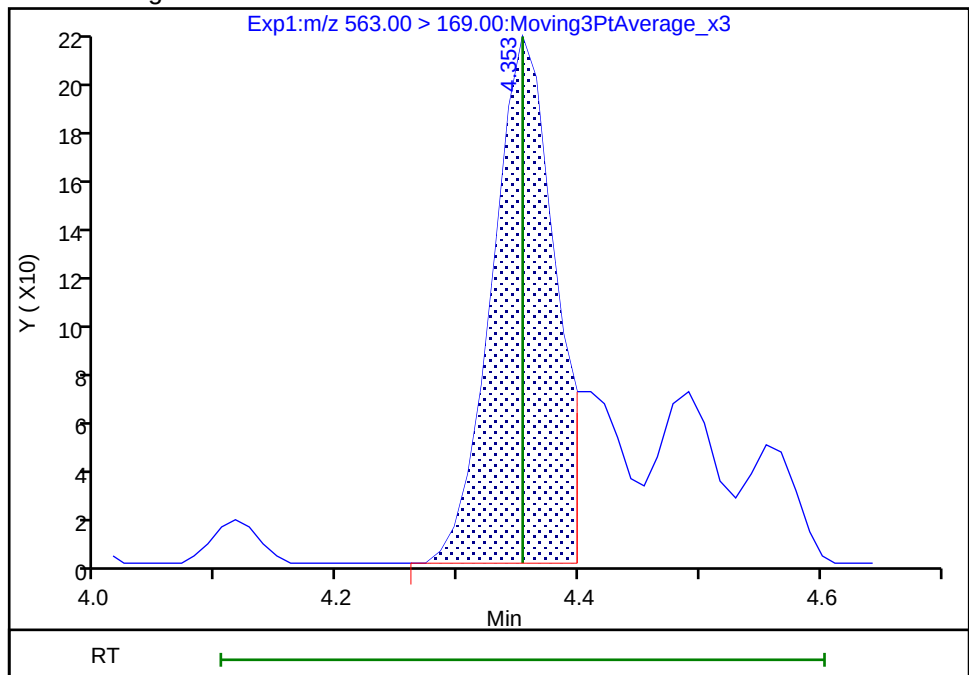
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 773
Amount: 0.003349
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:24:44

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

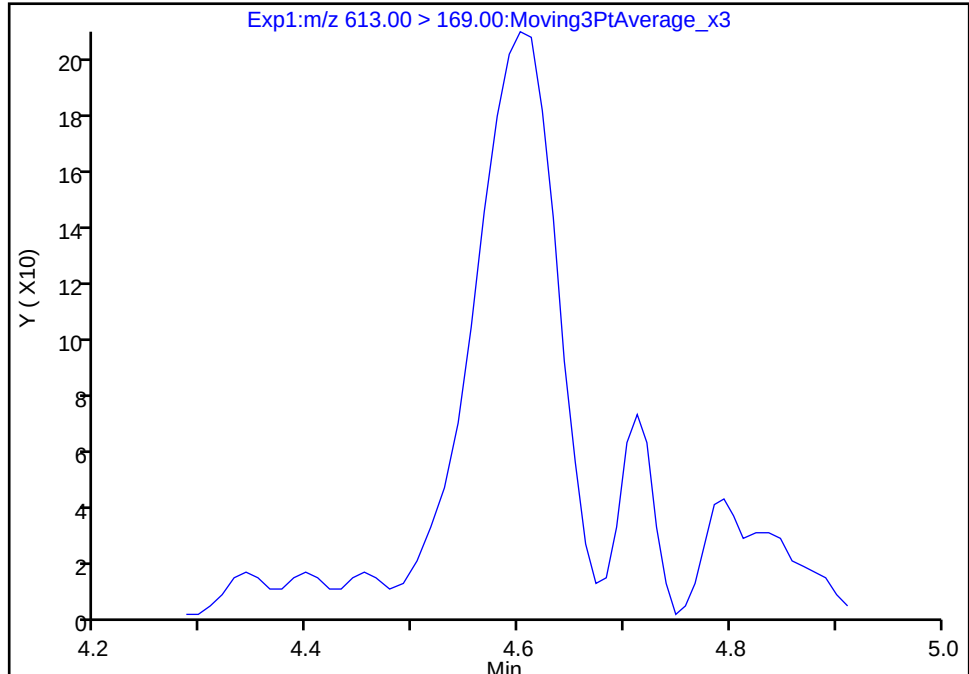
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

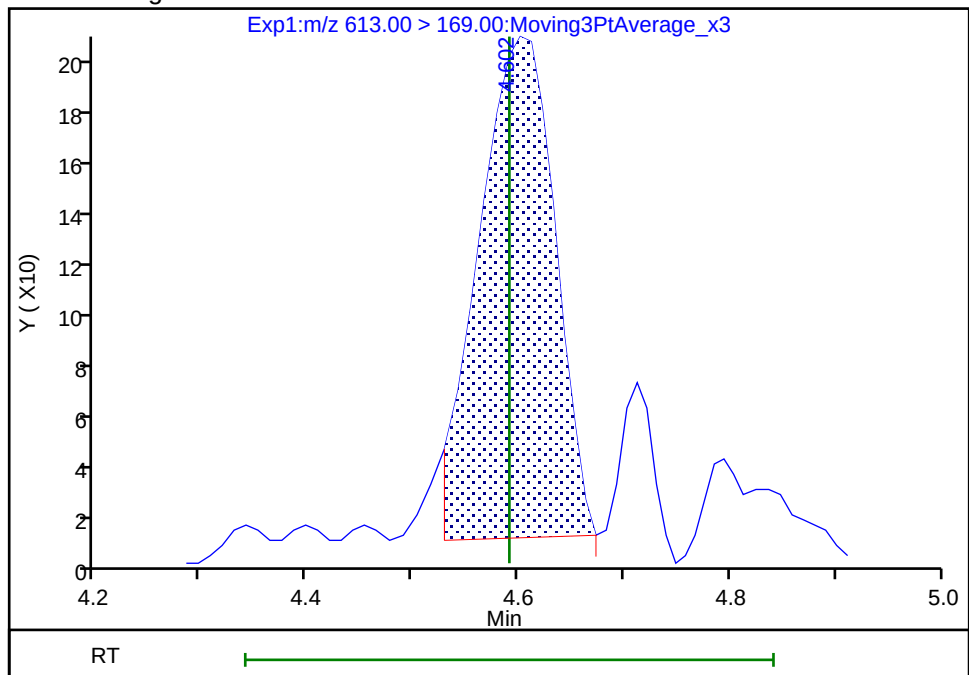
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 984
Amount: 0.003355
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:25:29

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

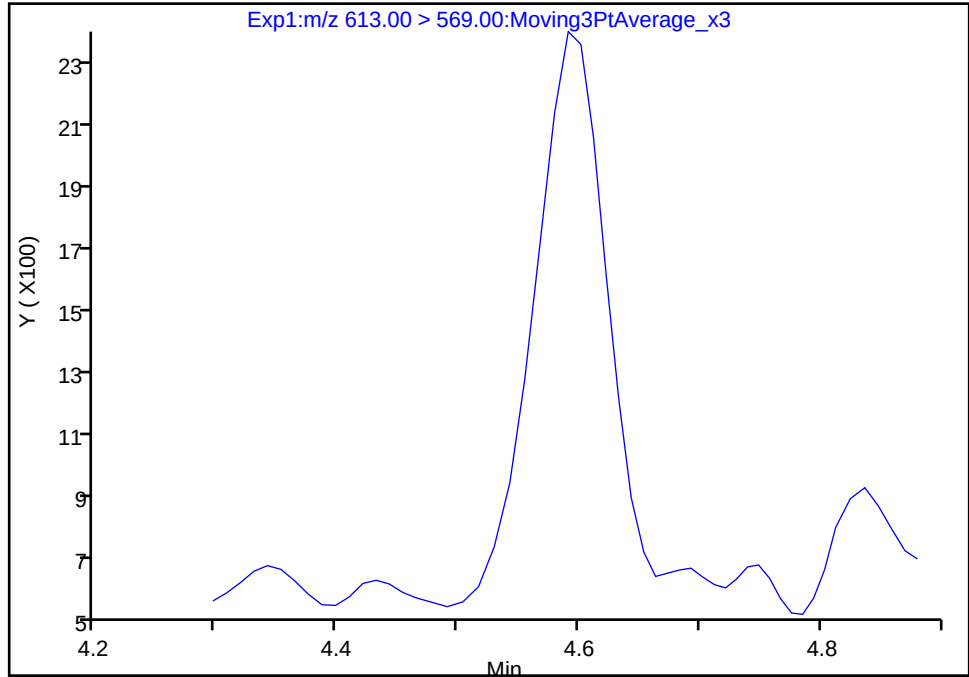
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

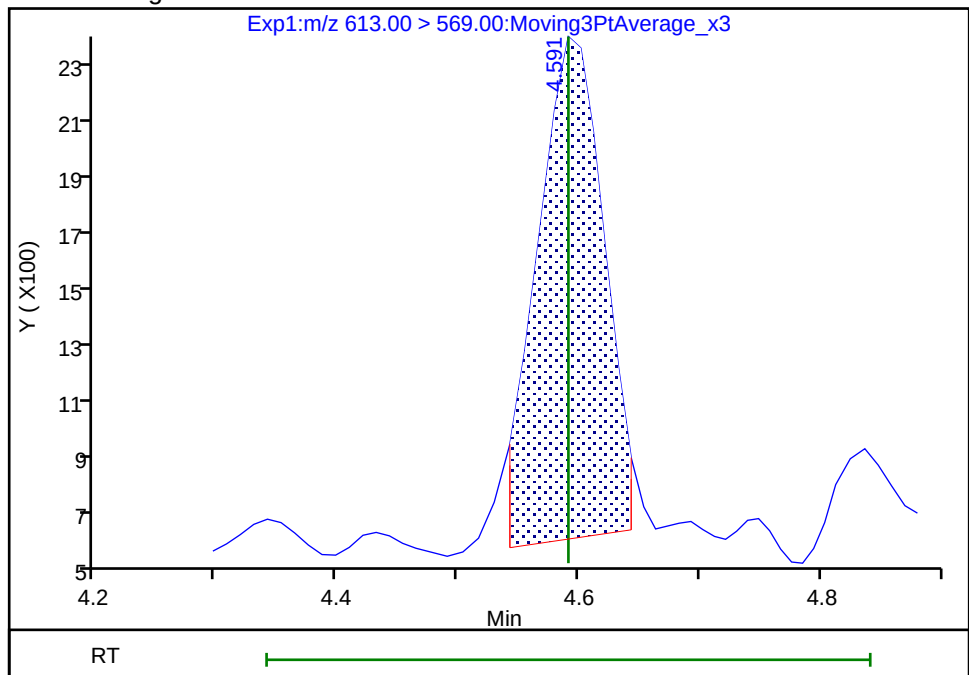
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 6630
Amount: 0.003355
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:25:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak
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Eurofins Burlington

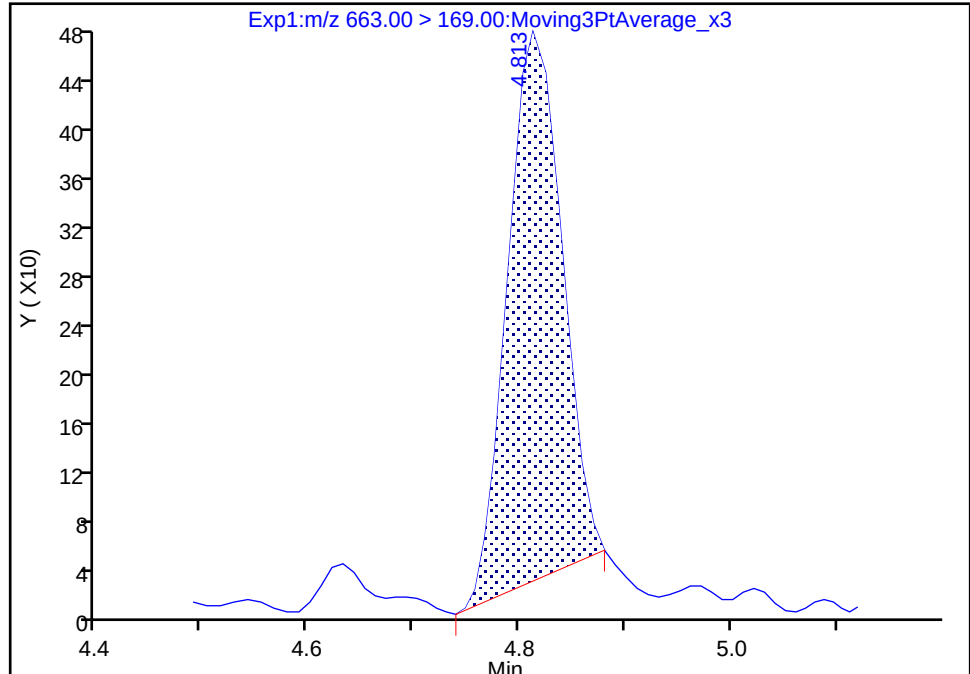
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

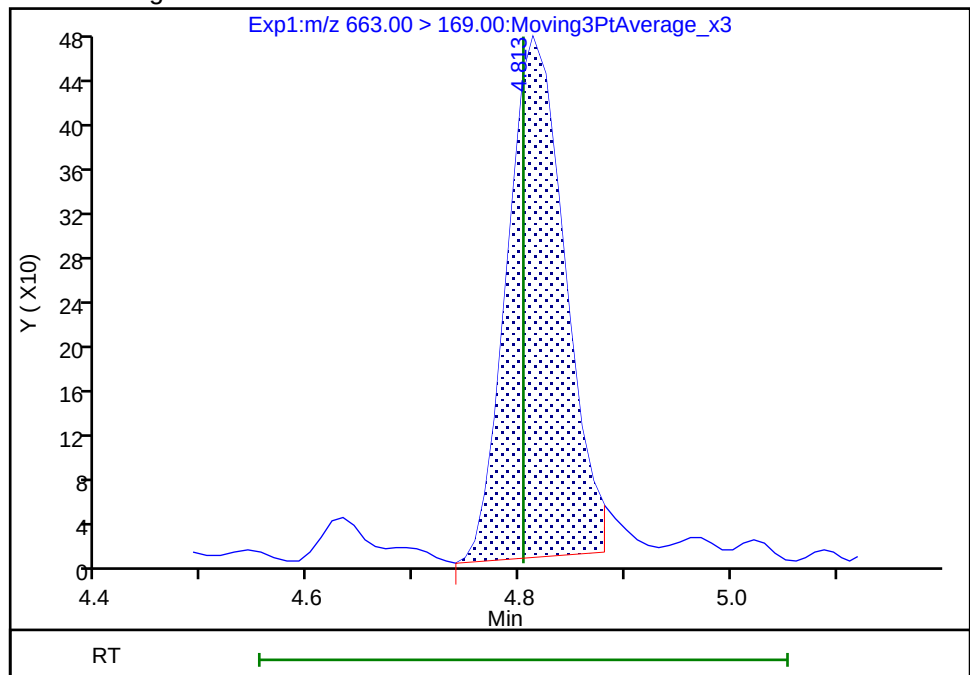
RT: 4.81
Area: 1591
Amount: 0.003827
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1768
Amount: 0.003827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

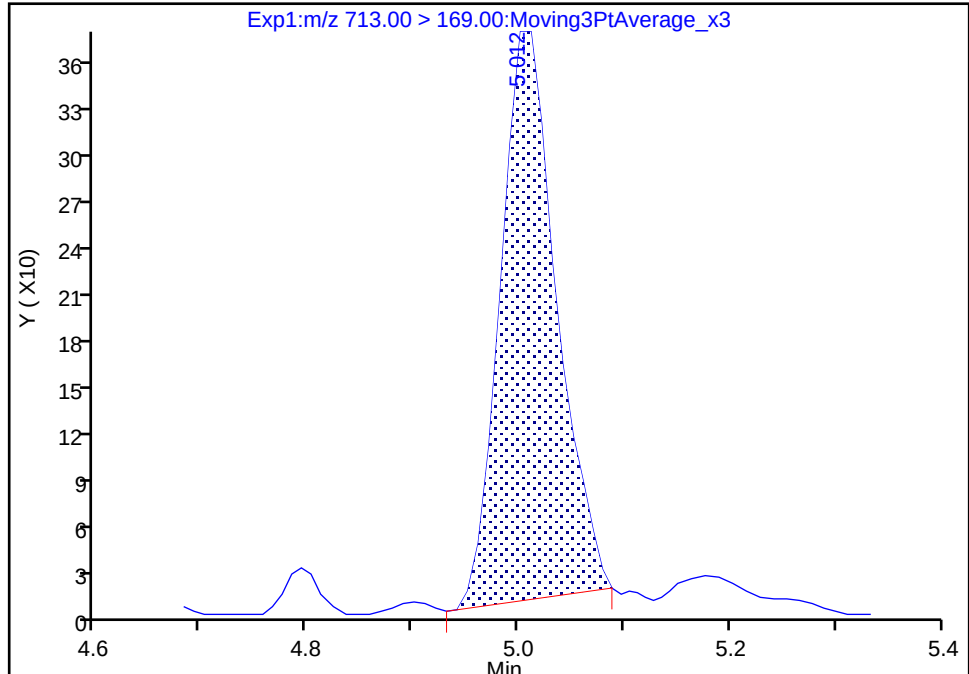
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

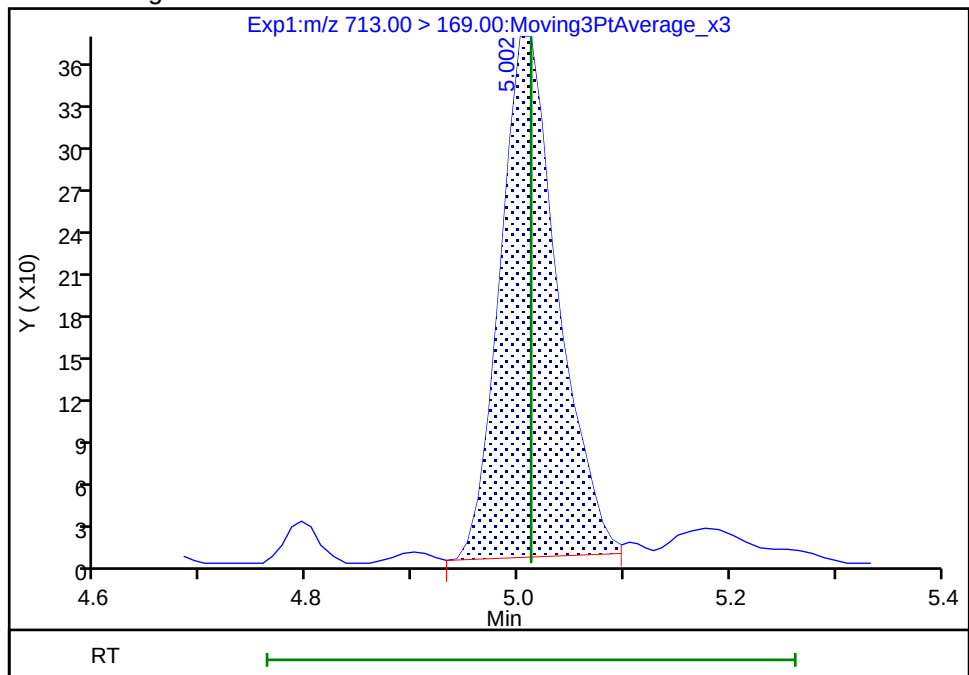
RT: 5.01
Area: 1356
Amount: 0.006171
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1409
Amount: 0.006412
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

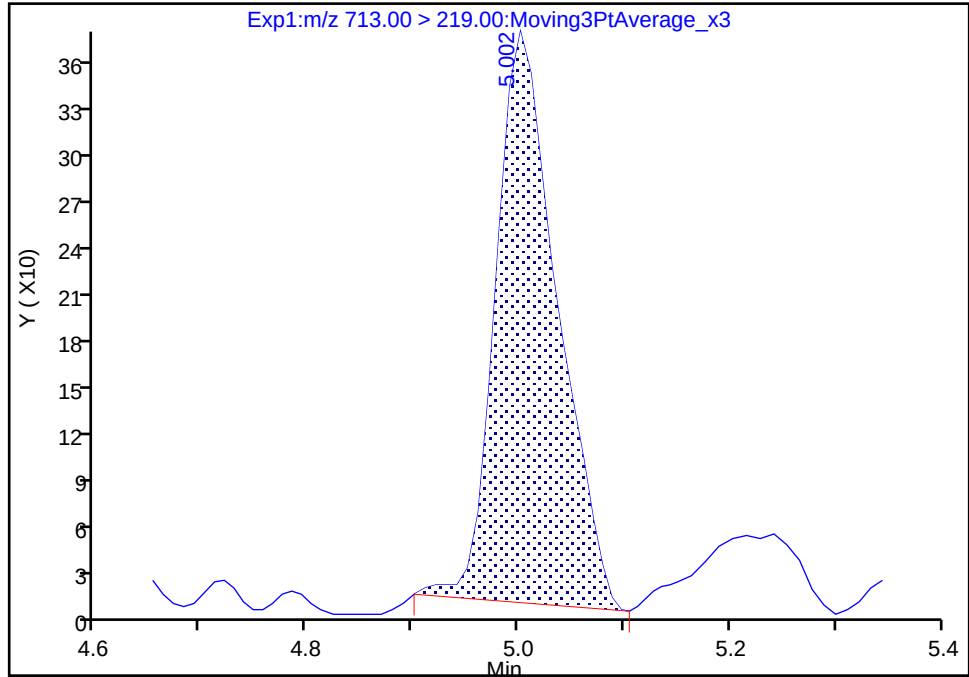
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

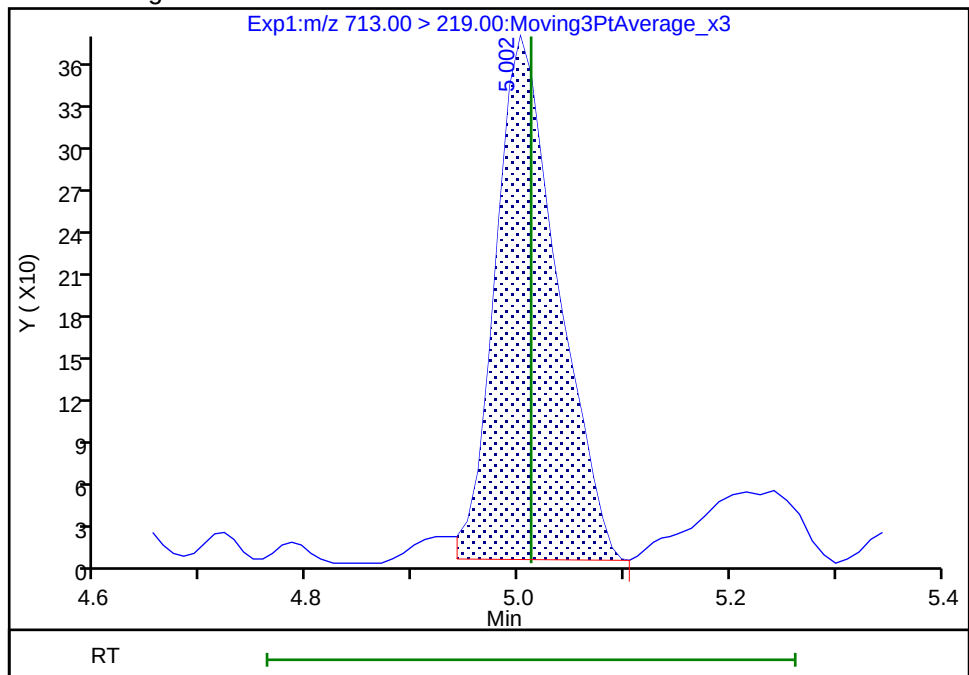
RT: 5.00
Area: 1502
Amount: 0.006171
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1526
Amount: 0.006412
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

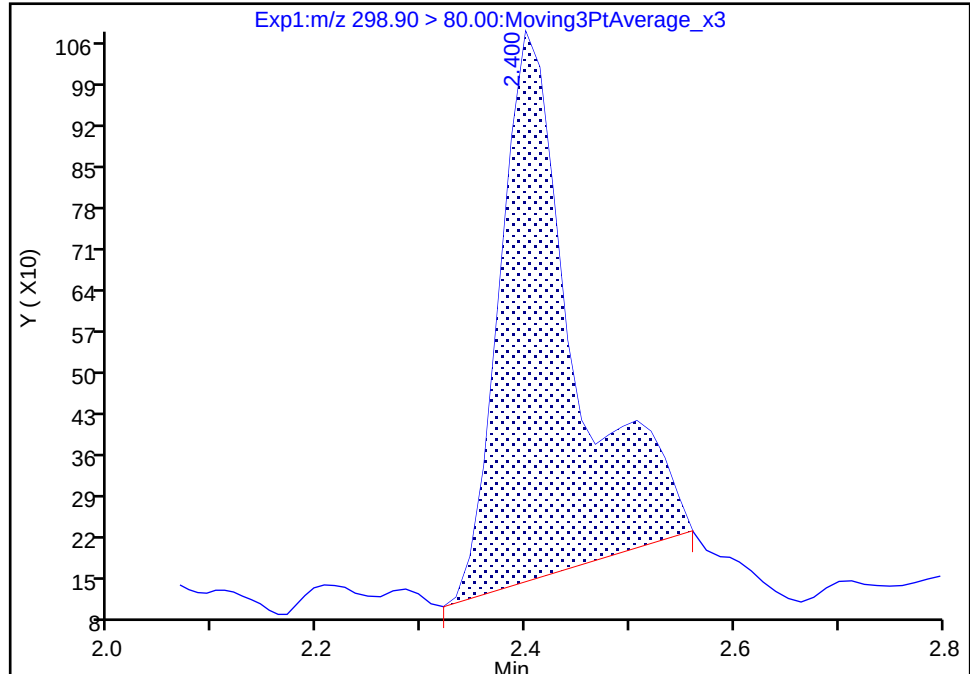
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

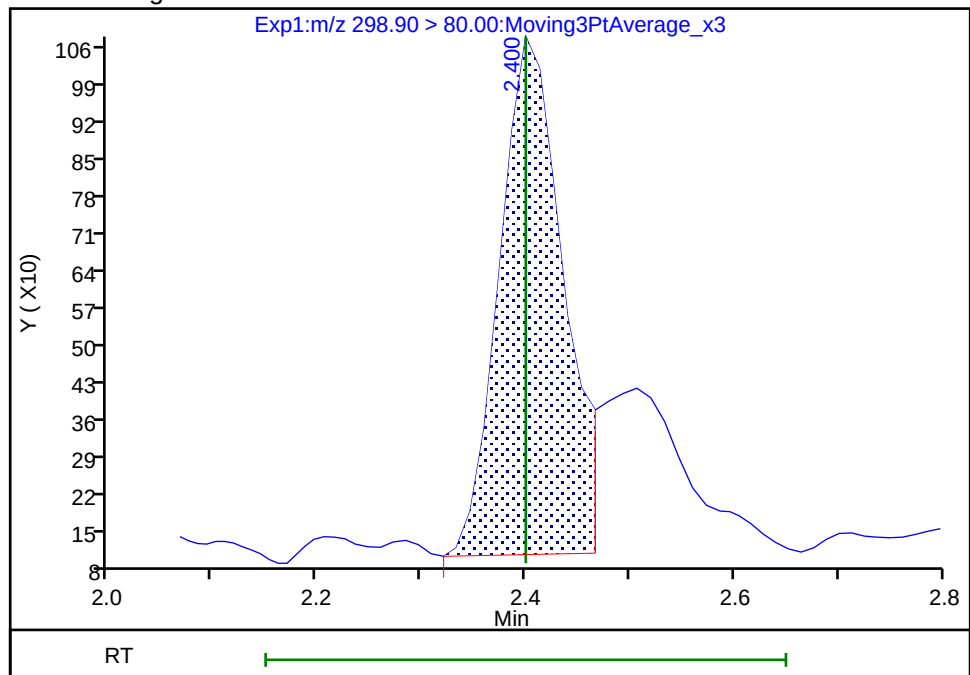
RT: 2.40
Area: 4687
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4101
Amount: 0.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

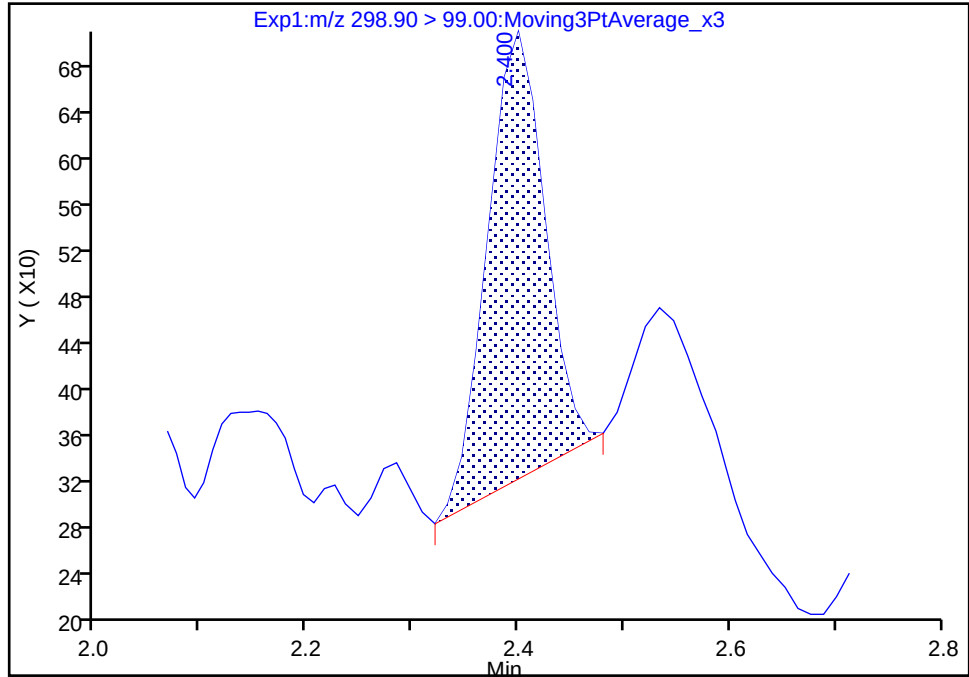
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

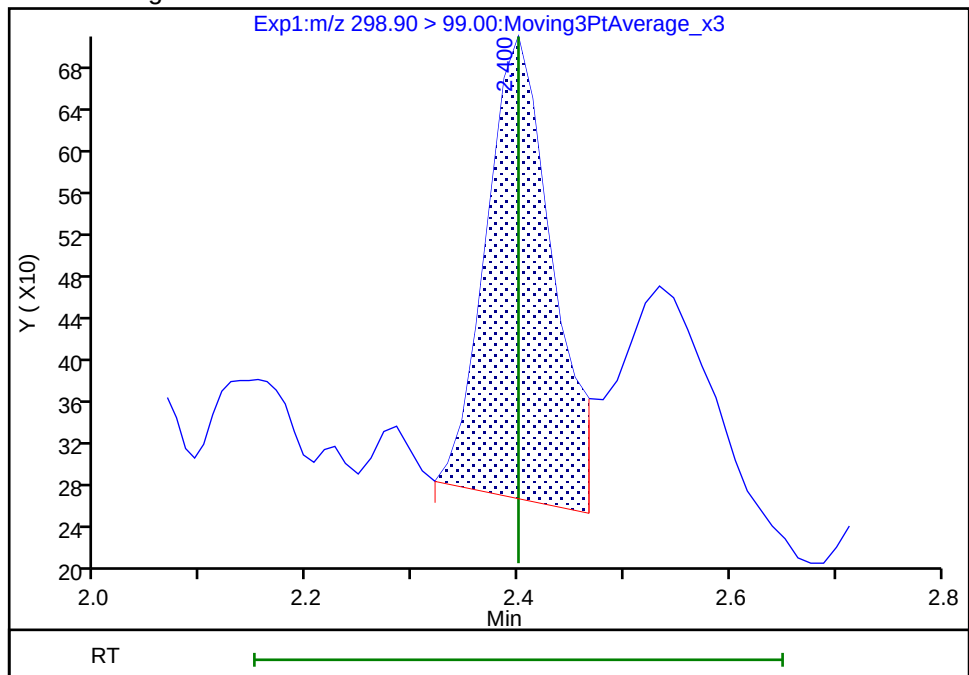
RT: 2.40
Area: 1438
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1875
Amount: 0.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

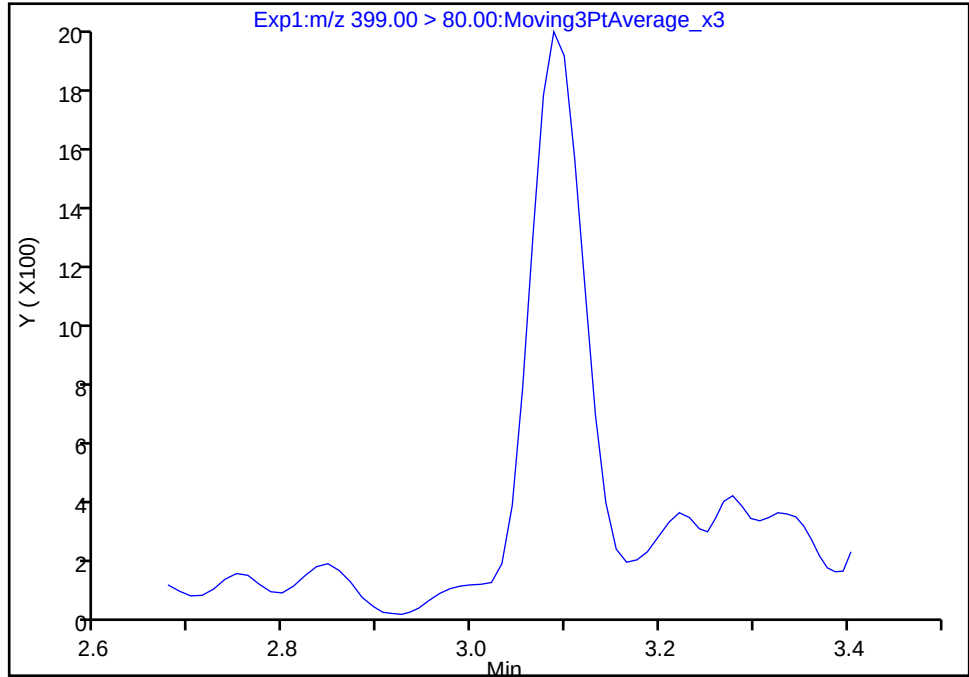
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

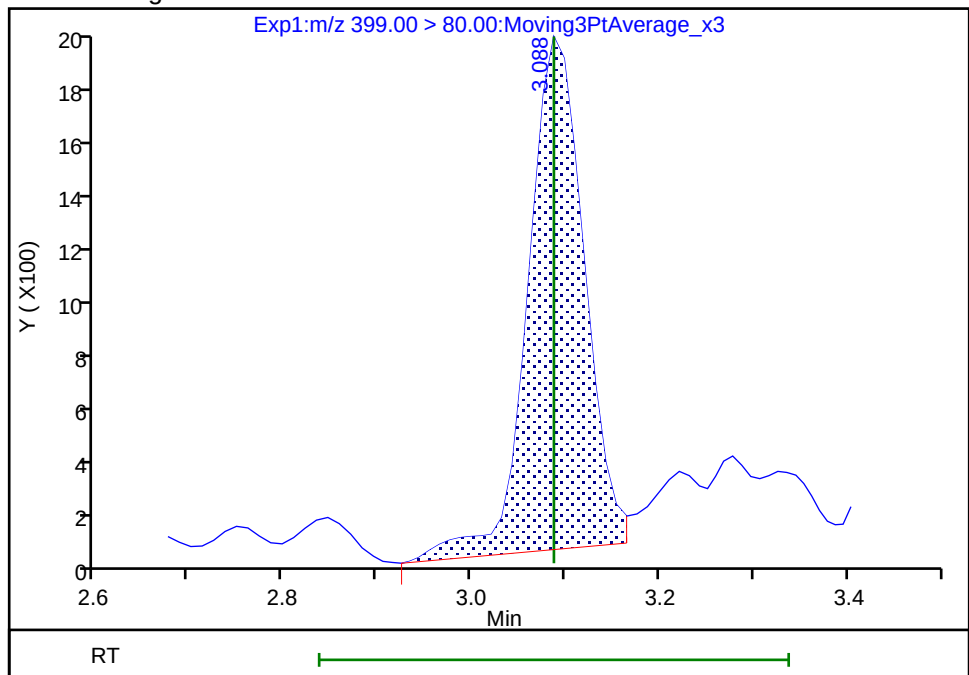
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 7928
Amount: 0.005284
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:21:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

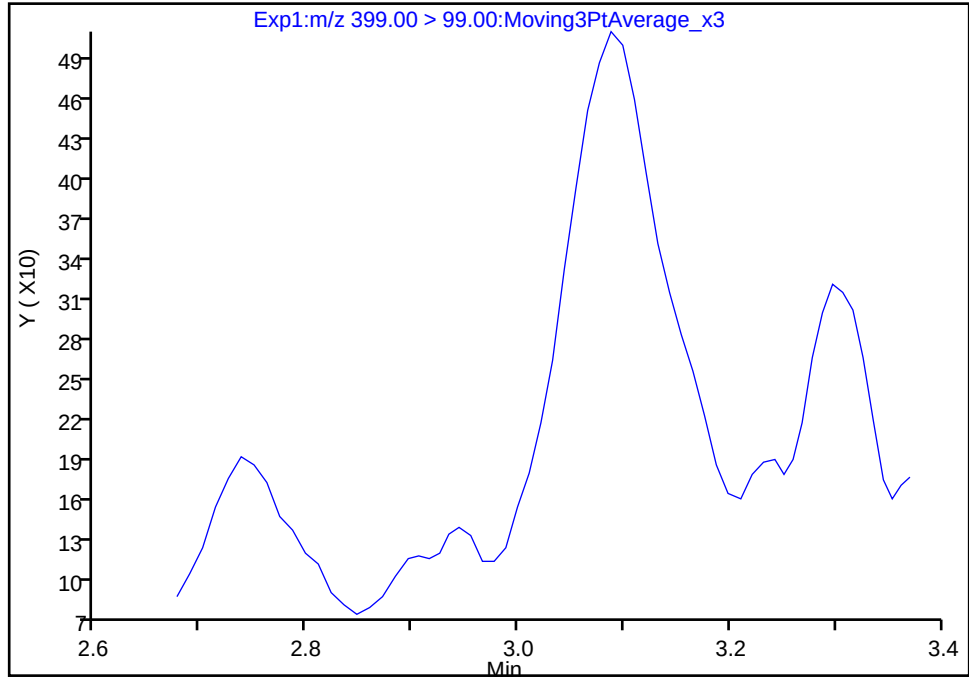
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

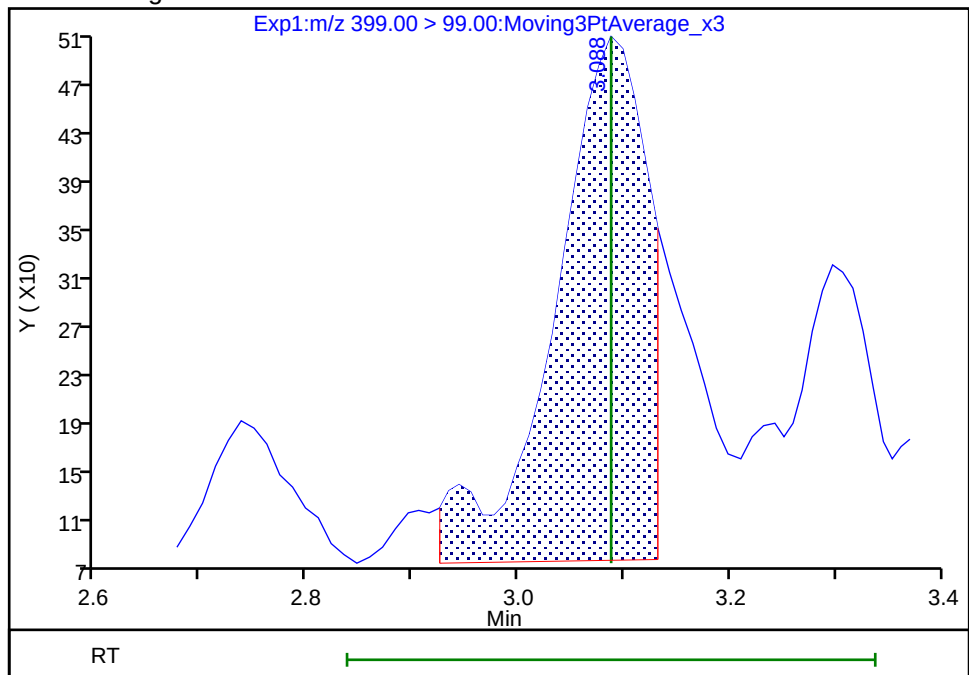
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 2543
Amount: 0.005284
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:21:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak
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Eurofins Burlington

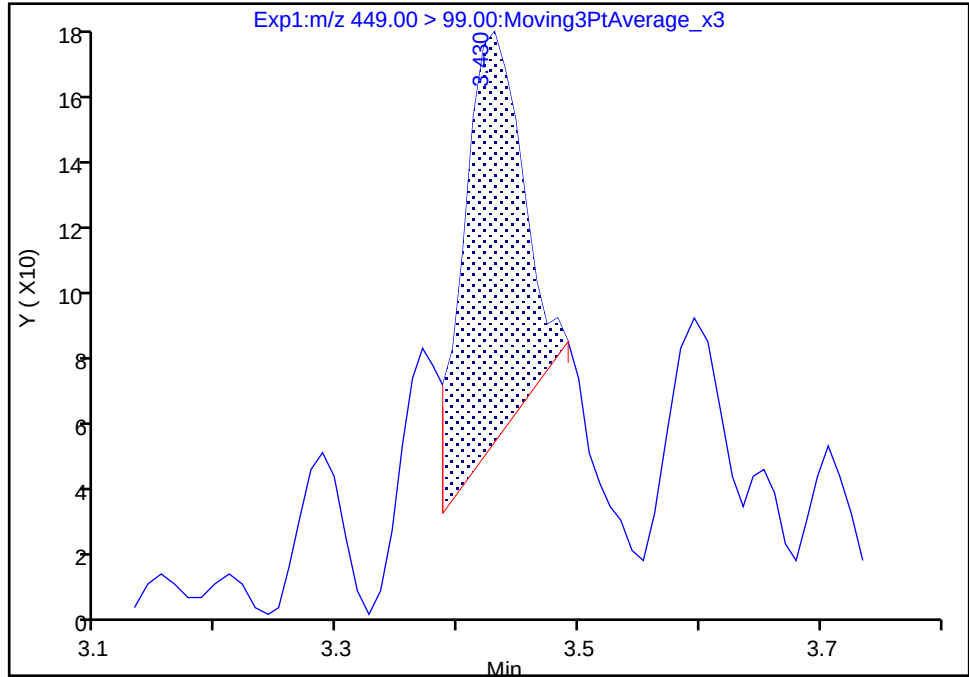
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

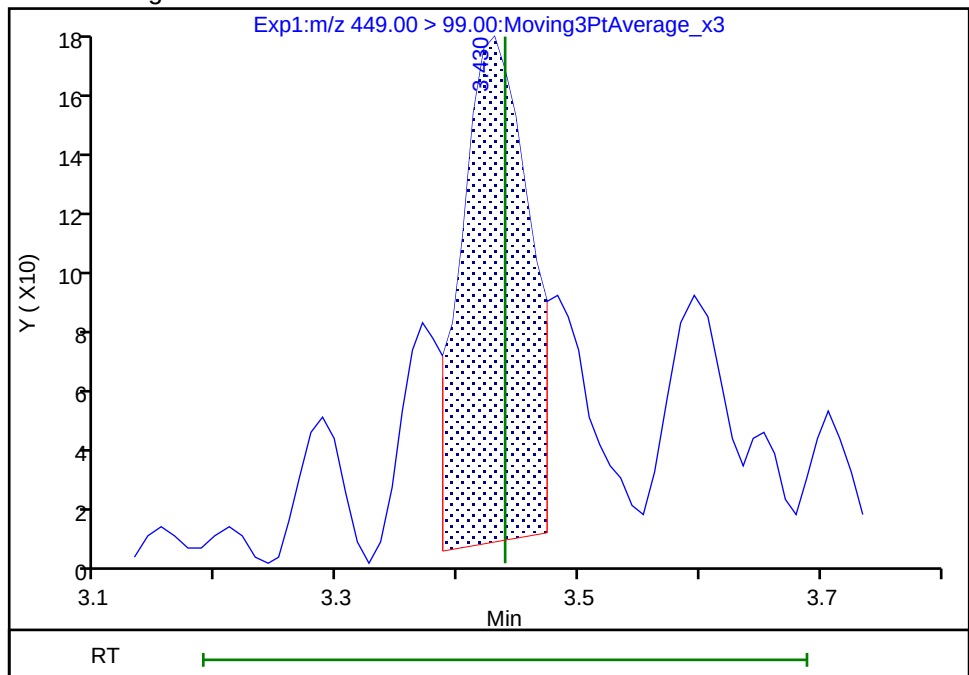
RT: 3.43
Area: 411
Amount: 0.001467
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 631
Amount: 0.001343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:22:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

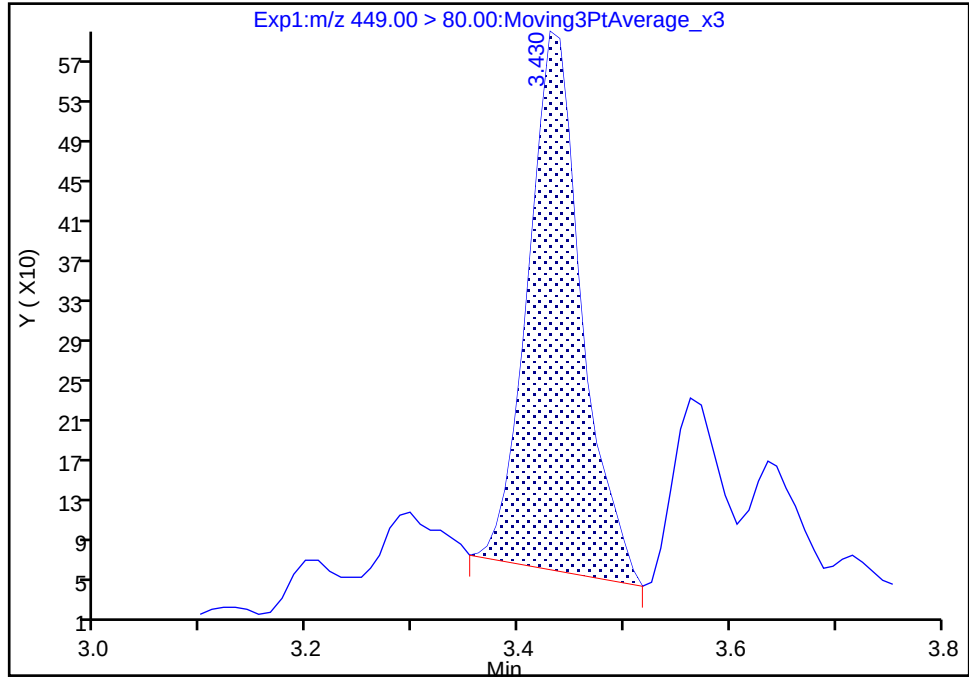
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

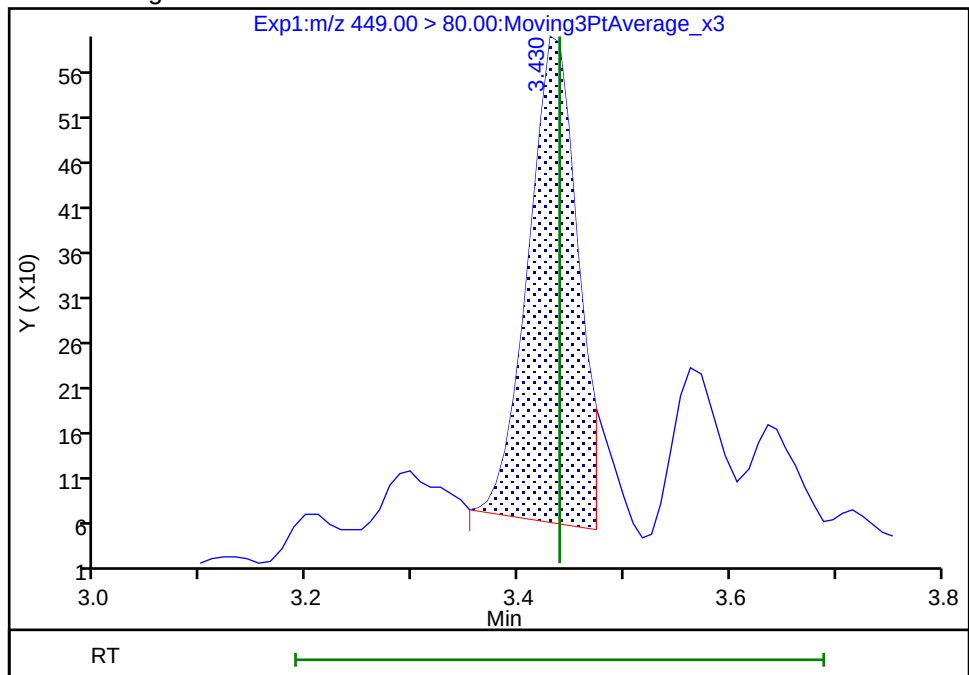
RT: 3.43
Area: 1891
Amount: 0.001467
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1731
Amount: 0.001343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:22:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

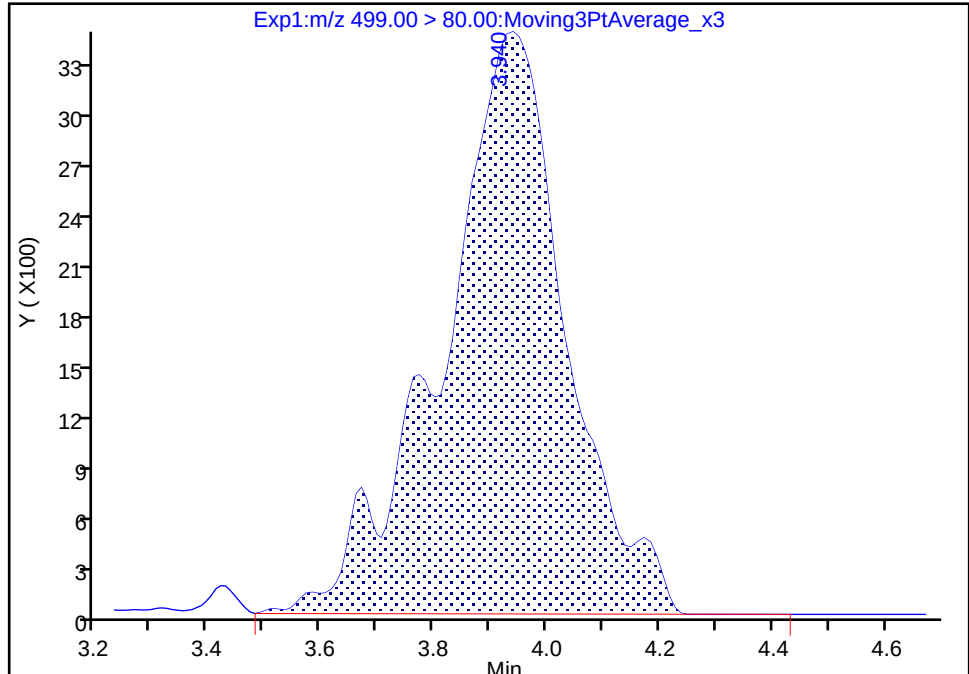
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

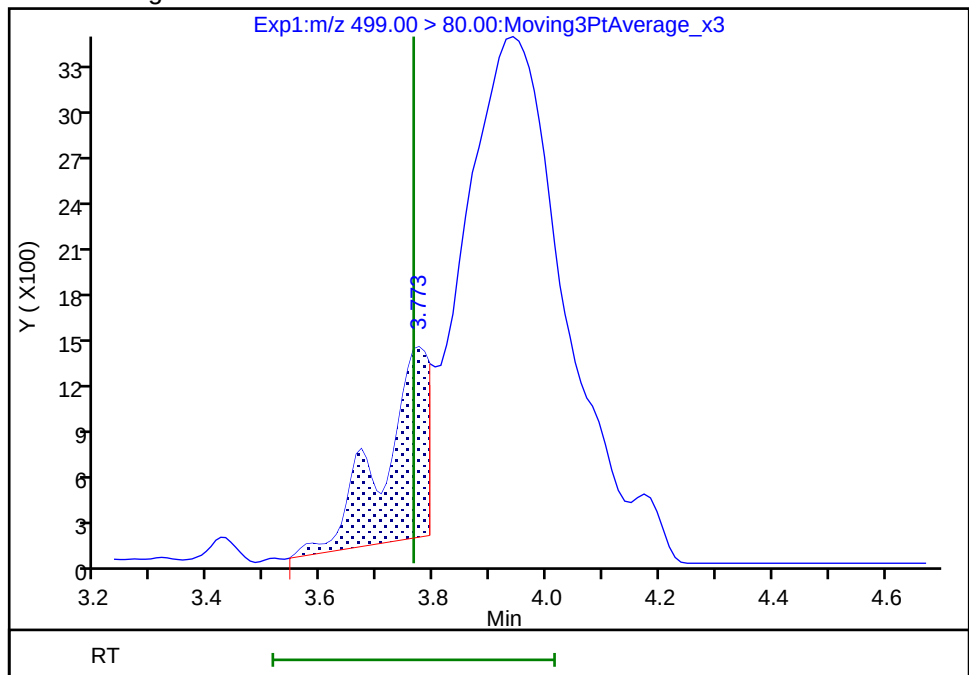
RT: 3.94
Area: 52204
Amount: 0.046510
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 6863
Amount: 0.006115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

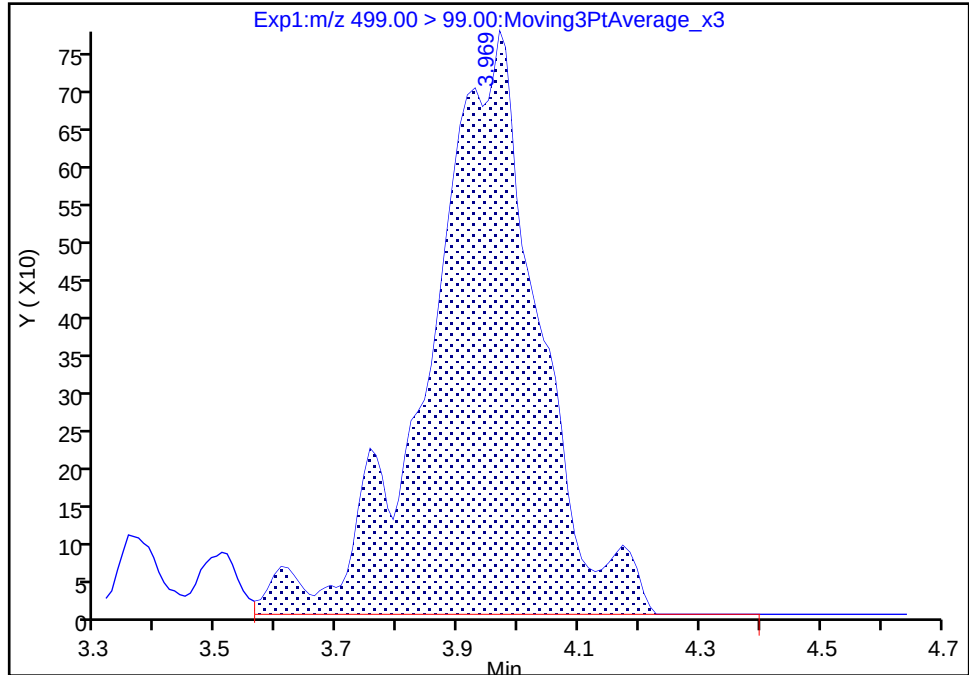
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

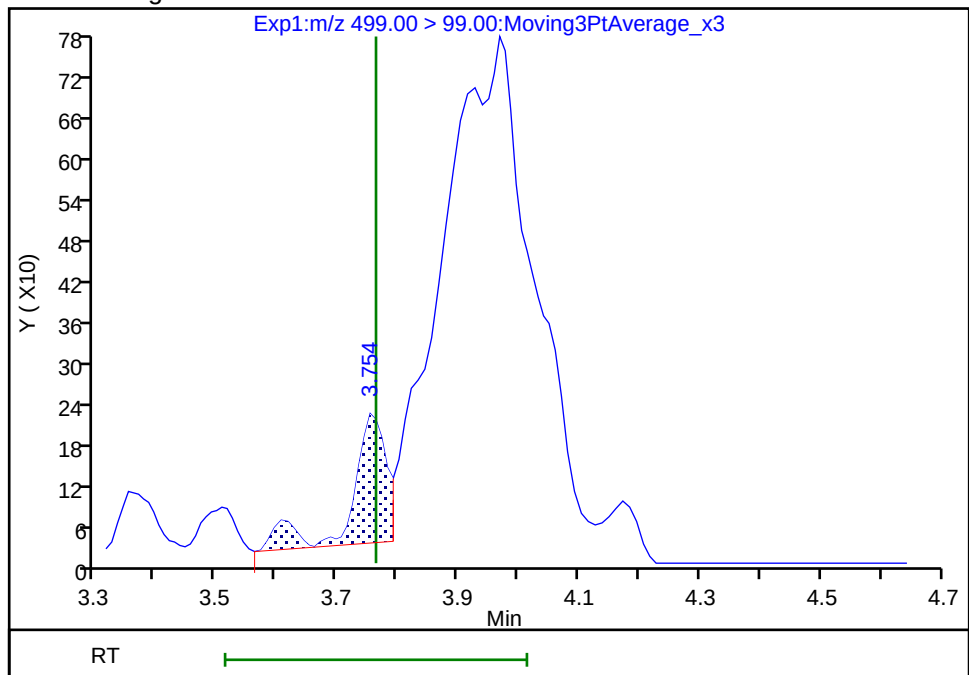
RT: 3.97
Area: 9705
Amount: 0.046510
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 740
Amount: 0.006115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

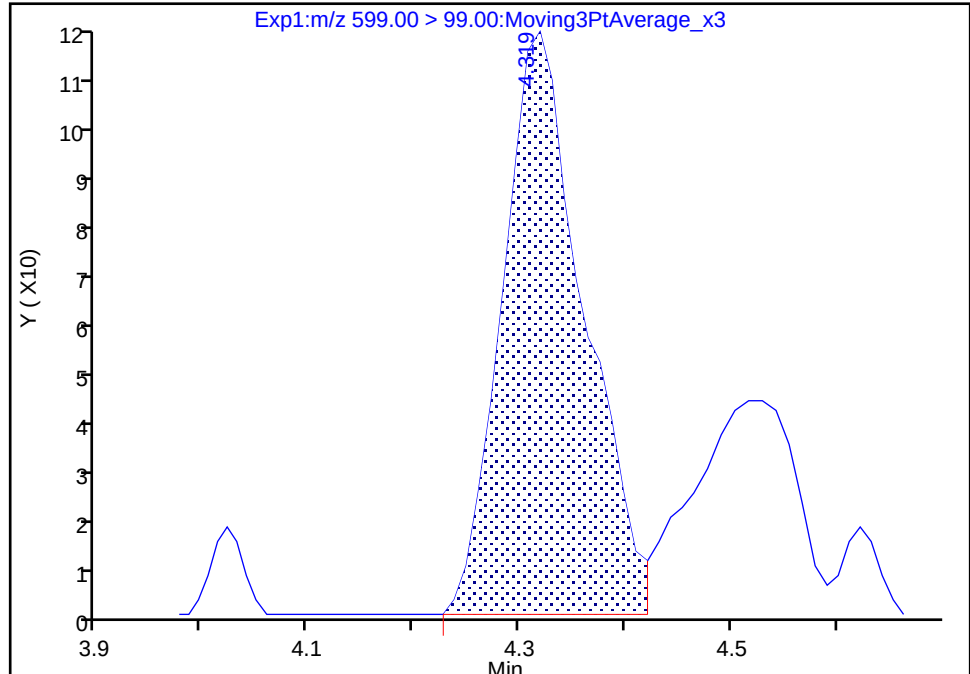
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

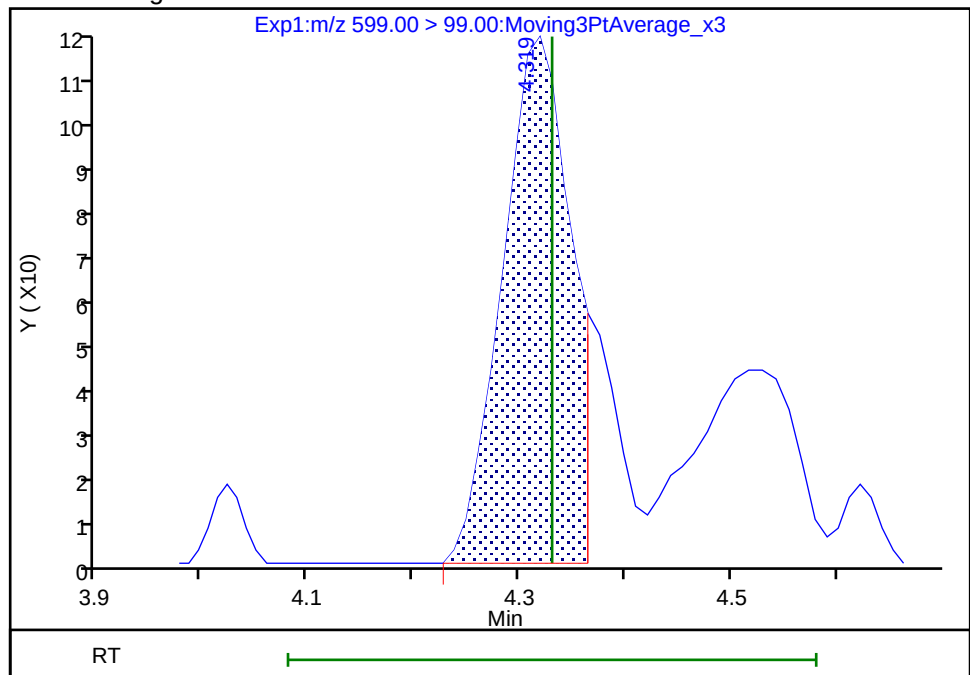
RT: 4.32
Area: 641
Amount: 0.002521
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 530
Amount: 0.002521
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

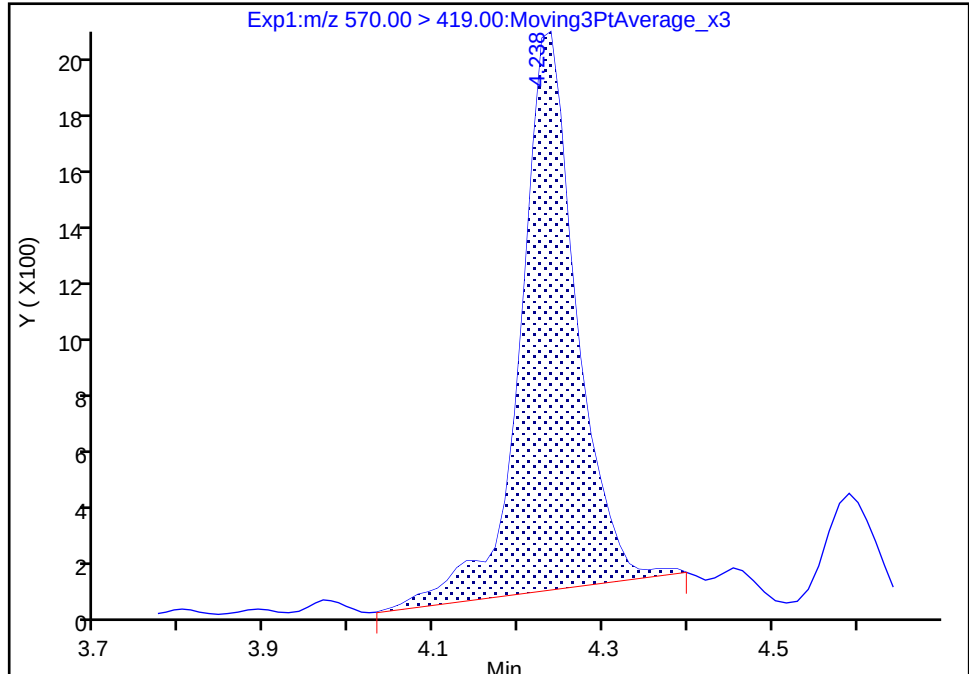
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

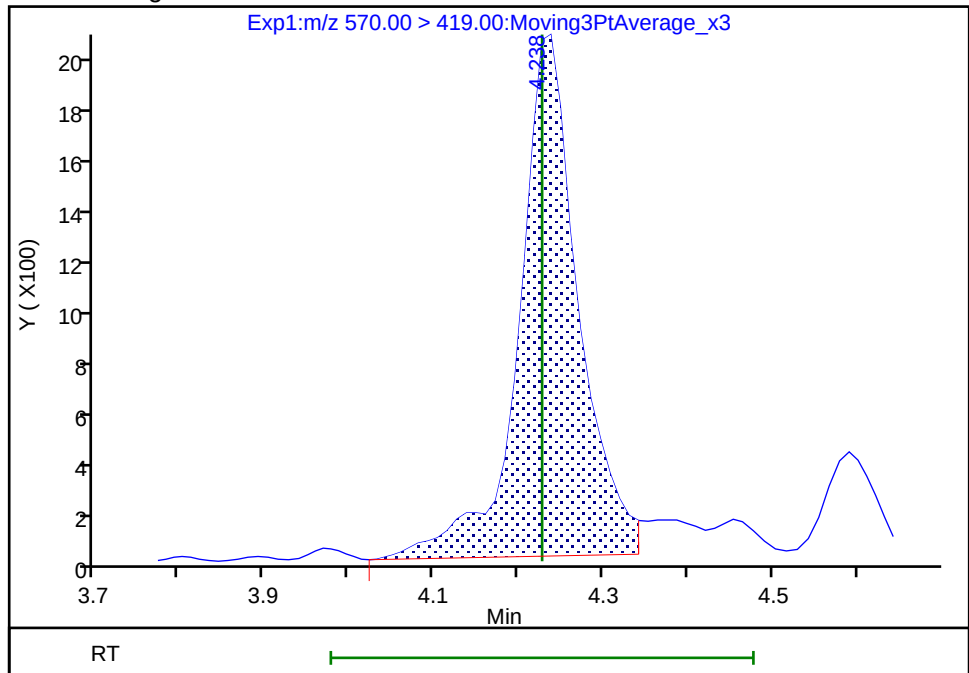
RT: 4.24
Area: 9316
Amount: 0.014803
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 10172
Amount: 0.017231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

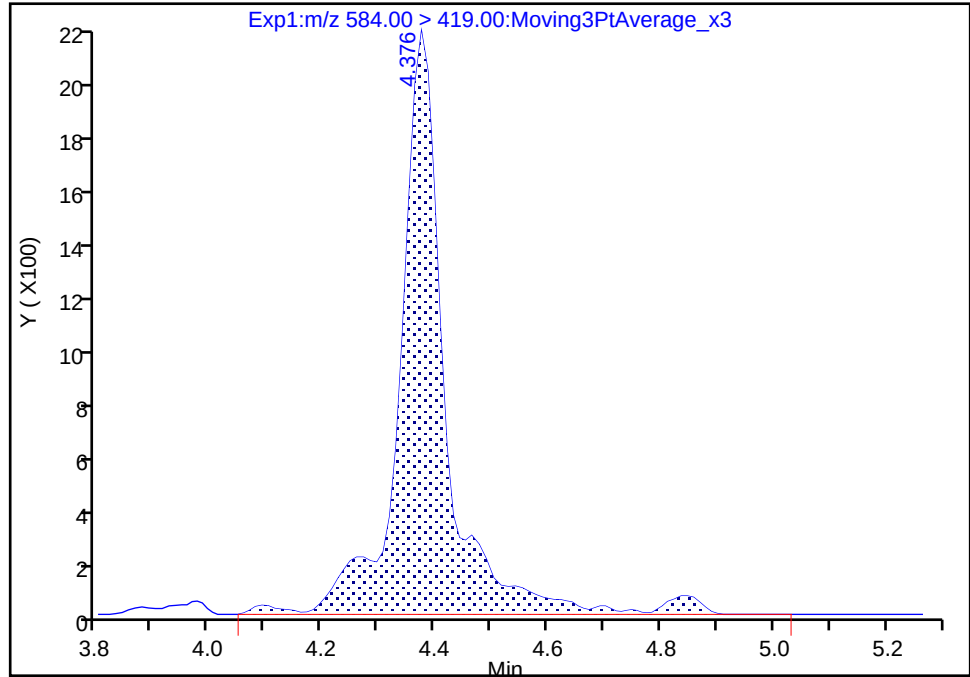
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

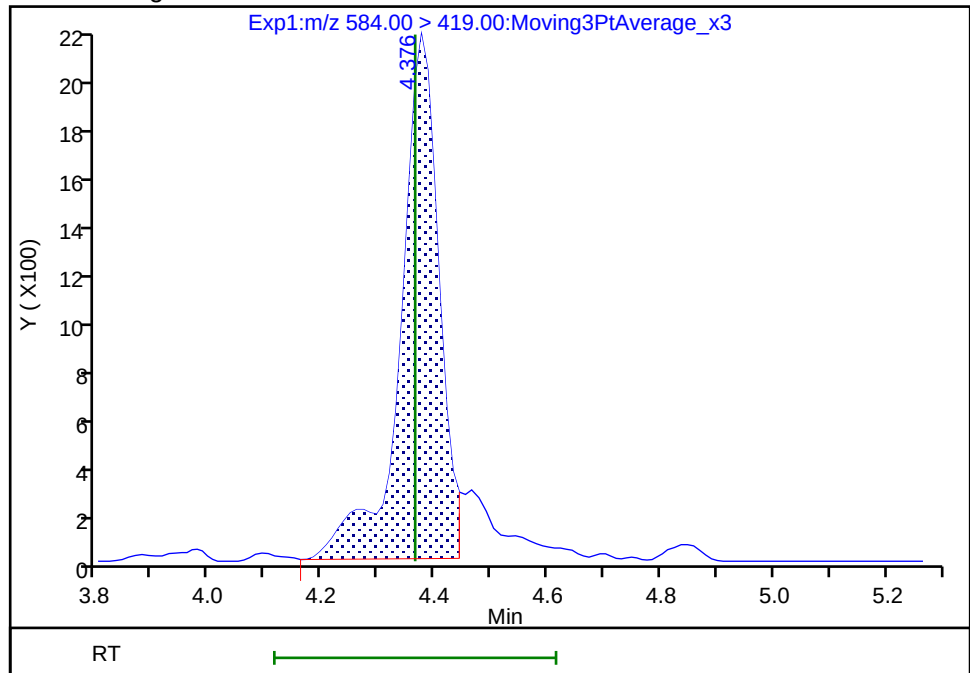
RT: 4.38
Area: 12637
Amount: 0.035132
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 10302
Amount: 0.028856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

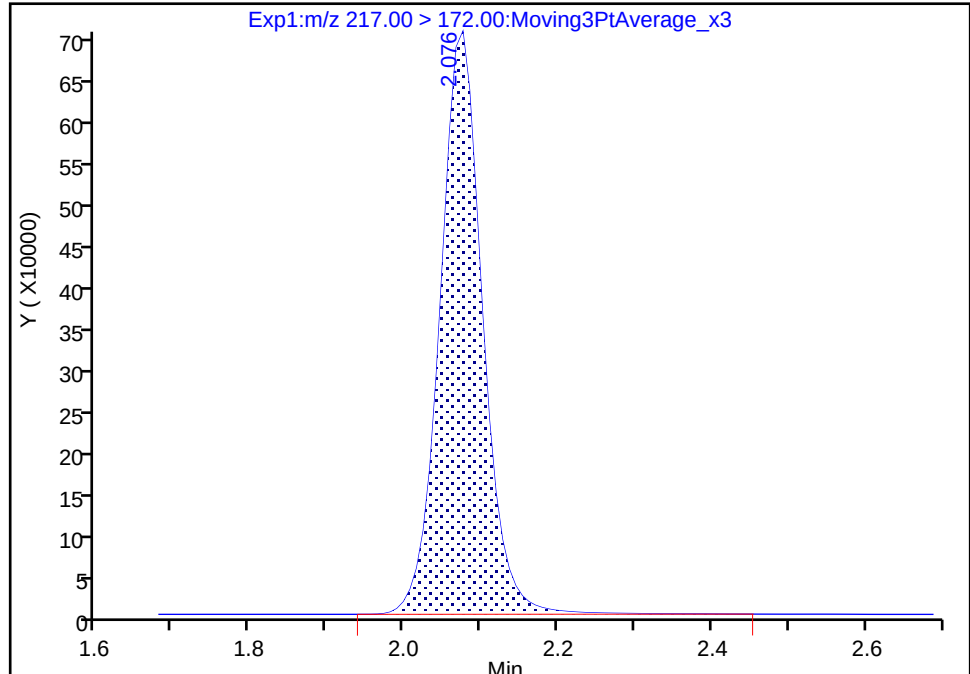
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

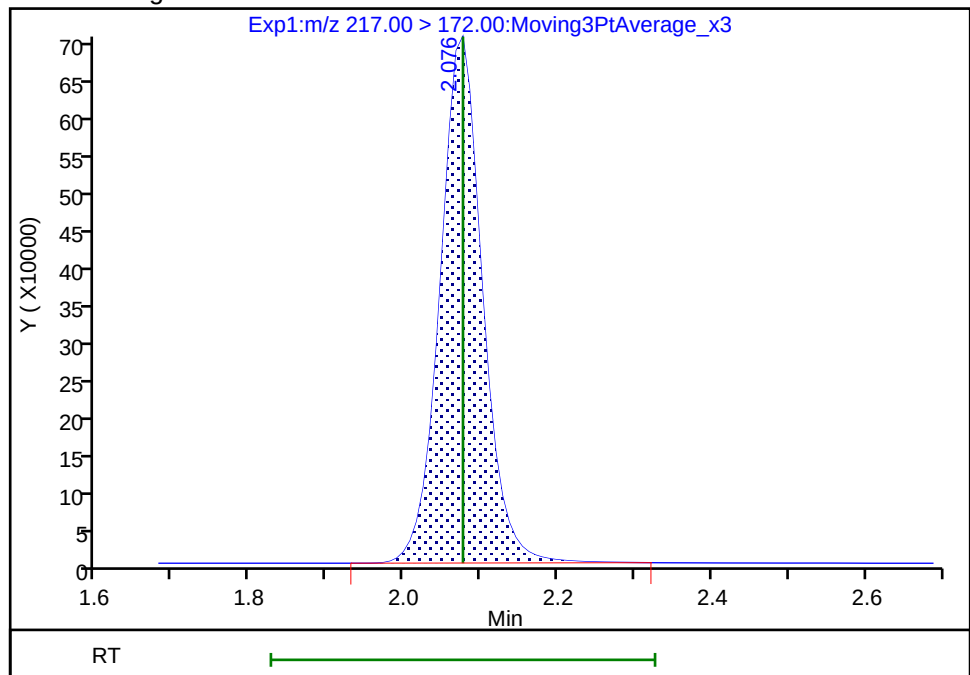
RT: 2.08
Area: 2698297
Amount: 1.324270
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2690789
Amount: 1.320585
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

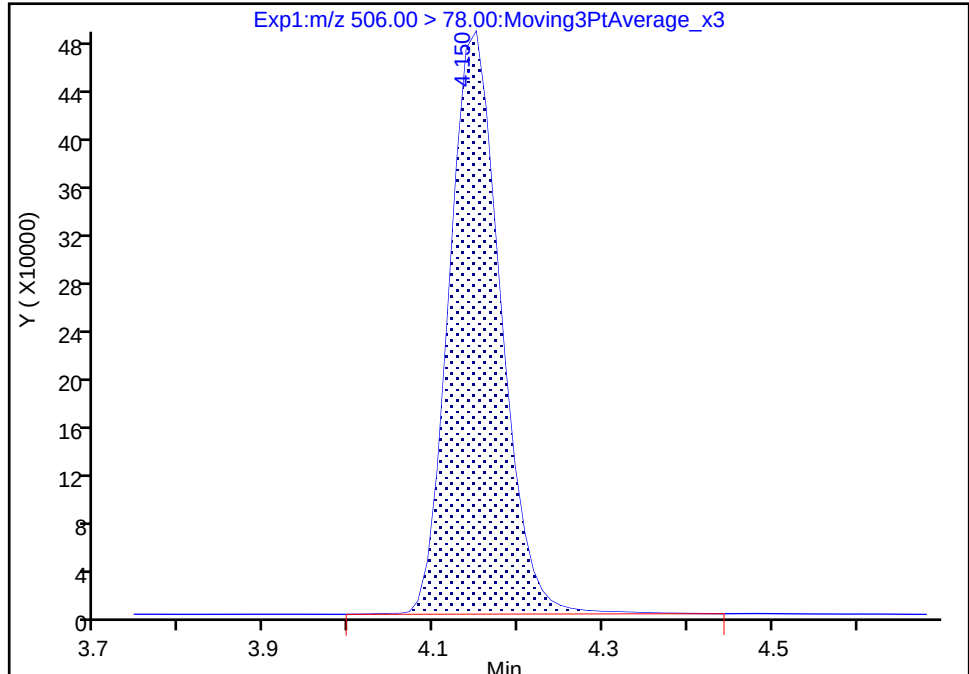
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

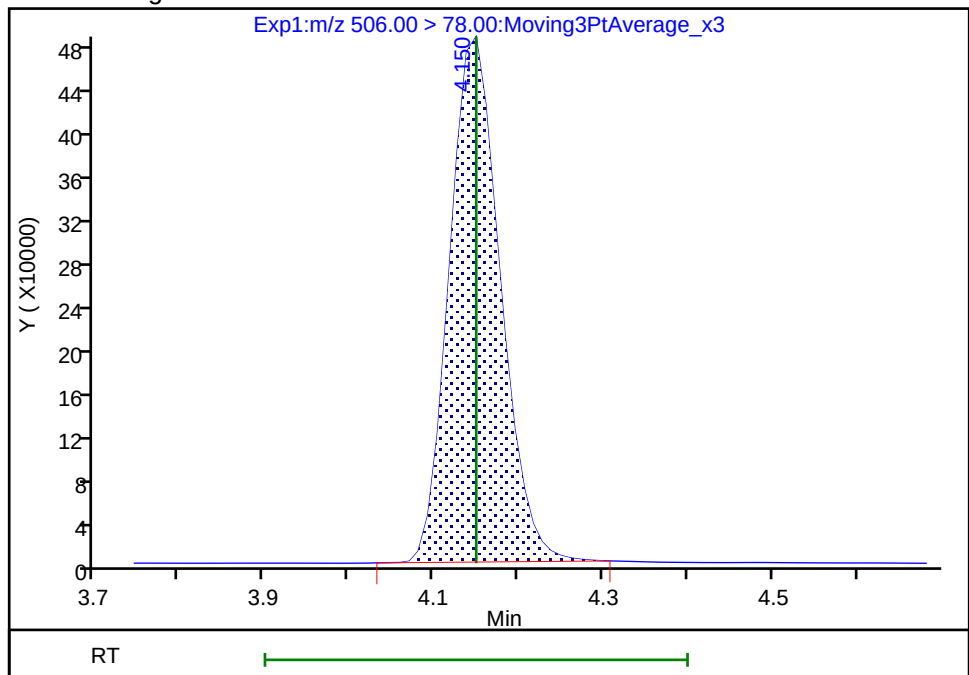
RT: 4.15
Area: 2062770
Amount: 1.351404
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2040818
Amount: 1.337023
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

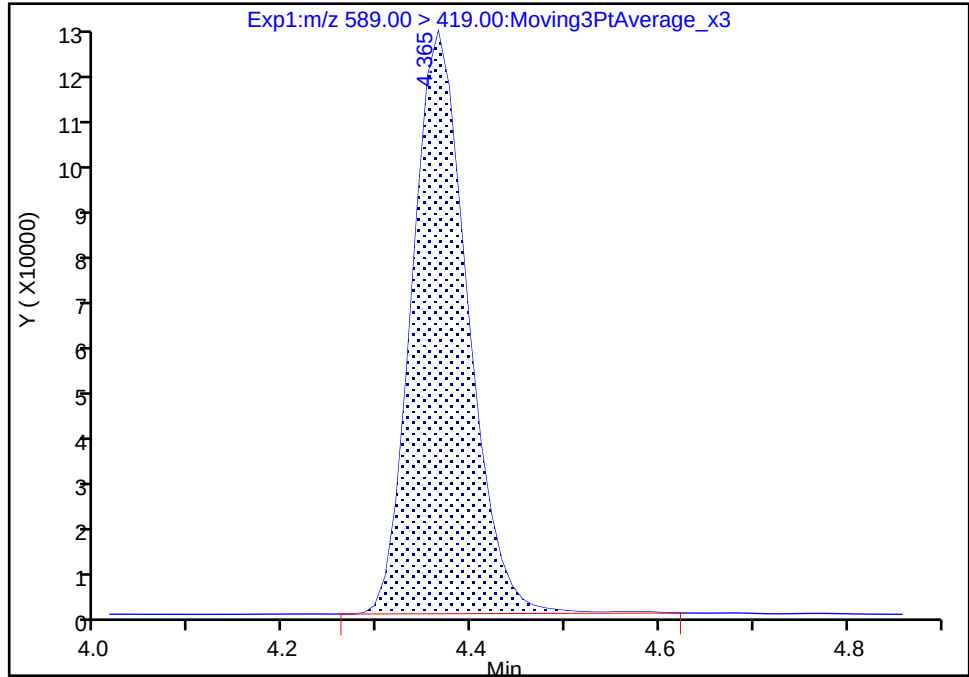
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

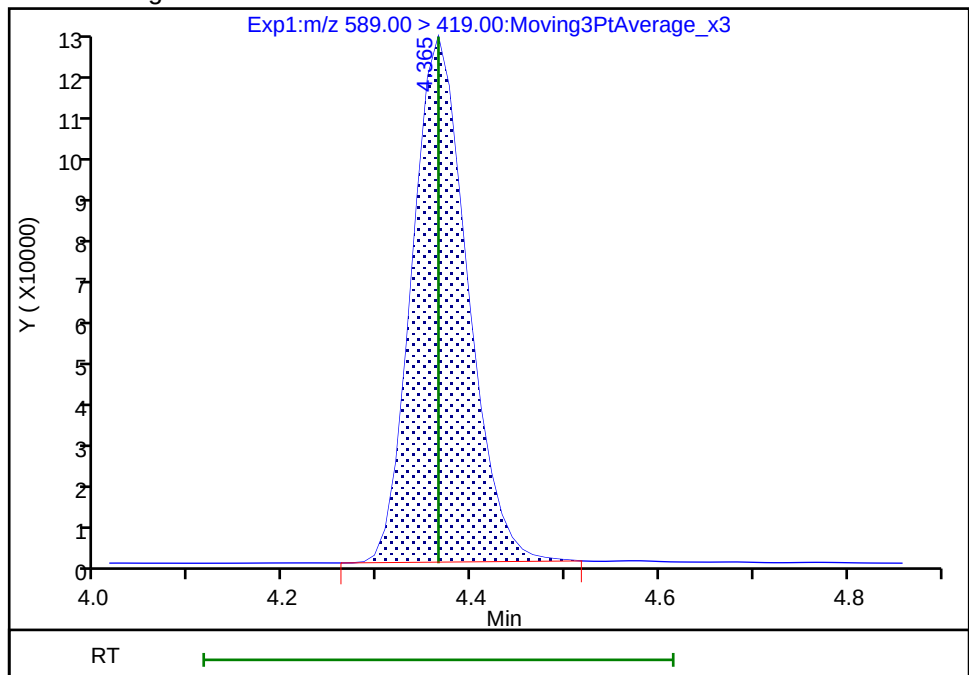
RT: 4.36
Area: 502236
Amount: 1.345514
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 498484
Amount: 1.335462
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:25:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

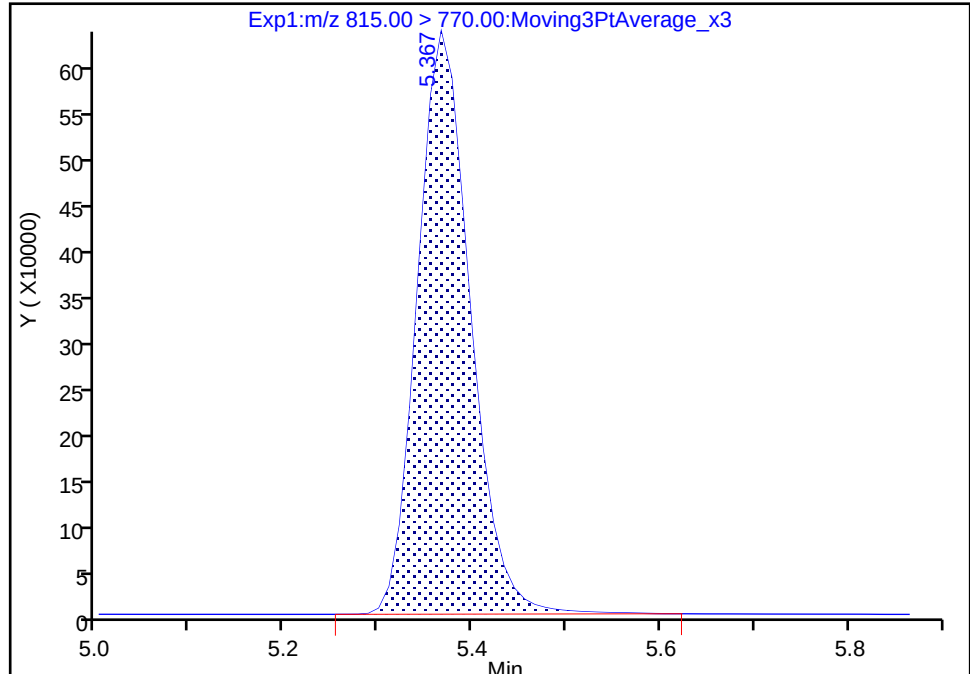
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Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

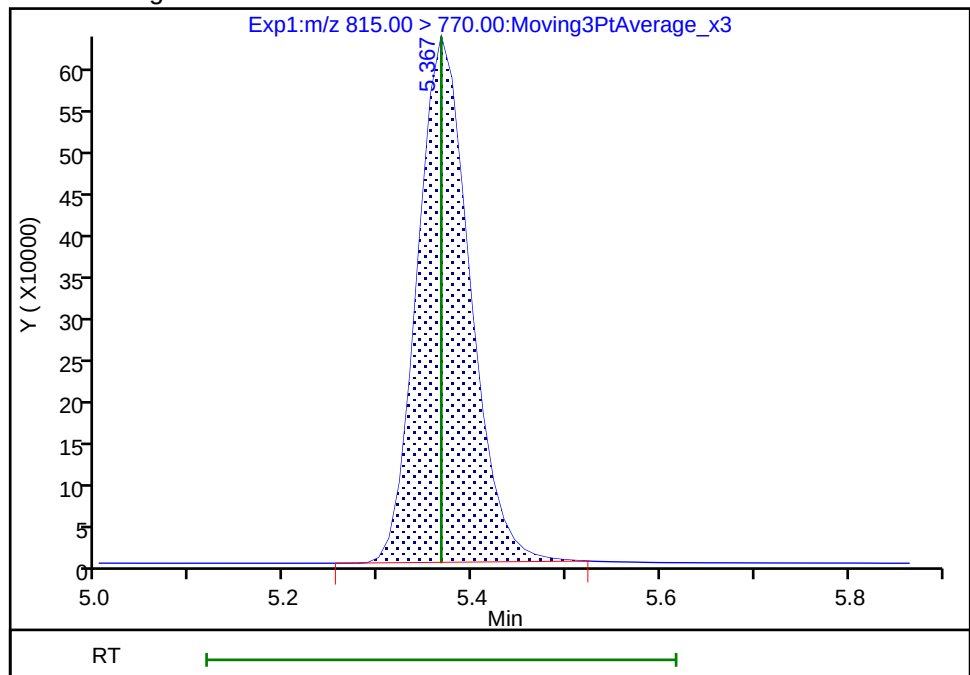
RT: 5.37
Area: 2475462
Amount: 1.332836
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2453441
Amount: 1.320980
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-186742/2-A
 Matrix: Solid Lab File ID: PA221216A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16
 Sample wt/vol: 5.00 (g) Date Analyzed: 12/16/2022 12:34
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.944		0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.959		0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	1.893		0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.942		0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	1.914		0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	1.975		0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	1.925		0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.871		0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	1.900		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.002		0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.858		0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.661		0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.794		0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.899		0.20	0.023
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.725		0.20	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.775		0.20	0.019
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.912		0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.035		2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.918	J	2.00	0.083
27619-97-2	6:2 FTS	2.036		2.00	0.057
39108-34-4	8:2 FTS	1.984	J	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-186742/2-A
 Matrix: Solid Lab File ID: PA221216A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16
 Sample wt/vol: 5.00 (g) Date Analyzed: 12/16/2022 12:34
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	90		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	97		50-150
STL00991	13C4 PFOS	93		50-150
STL00995	13C5 PFNA	101		50-150
STL00992	13C4 PFBA	74		50-150
STL00993	13C2 PFHxA	96		50-150
STL00996	13C2 PFDA	100		50-150
STL00997	13C2 PFUnA	99		50-150
STL00998	13C2 PFDoA	91		50-150
STL01056	13C8 FOSA	87		50-150
STL01893	13C5 PFPeA	86		50-150
STL02116	13C2 PFTeDA	93		50-150
STL02118	d3-NMeFOSAA	96		50-150
STL02117	d5-NEtFOSAA	96		50-150
STL02279	M2-6:2 FTS	95		50-150
STL02280	M2-8:2 FTS	93		50-150
STL02337	13C3 PFBS	90		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d
 Lims ID: LCS 200-186742/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 16-Dec-2022 12:34:11 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-186742/2-A
 Misc. Info.: 200-0053717-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 09:25:48

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										M
217.00 > 172.00	2.085	2.076	0.009	0.603	2035777	0.9238		73.9	7258	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	1632441	0.9720		97.2	161	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.690	1793815	1.07		85.5	2836	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	1531516	0.9793		97.9	39.8	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.694	1914136	1.05		90.3	326582	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	1564444	0.8305	Target=2.09	93.9	1764	
298.90 > 99.00	2.413	2.400	0.013	1.006	742898		2.11(1.04-3.13)		389	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	431053	0.9009		96.5	1723	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.781	181313	1.13		96.4	214	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.737	2.725	0.012	0.792	2106498	1.20		95.8	3570	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.000	1738254	0.9467	Target=14.25	94.7	418	M
313.00 > 119.00	2.737	2.725	0.012	1.000	123363		14.09(7.12-21.37)		227	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.883	1502743	0.9366	Target=3.04	99.8	2249	
349.00 > 99.00	2.737	2.737	0.0	0.883	516500		2.91(1.52-4.56)		1486	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.000	307161	0.9863		98.6	1823	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.847	2.835	0.012	0.824	368652	1.19		95.0	1322	
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.897	1420769	1.07		90.4	2633	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.099	3.088	0.011	1.000	1216310	0.8969	Target=3.66	98.6	1506	M
399.00 > 99.00	3.099	3.088	0.011	1.000	346522		3.51(1.83-5.49)		557	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.110	3.099	0.011	0.900	2111314	1.17		93.4	4114	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.110	3.099	0.011	1.000	1785510	0.9709	Target=3.97	97.1	395	M
363.00 > 169.00	3.110	3.099	0.011	1.000	449577		3.97(1.98-5.95)		1008	M
77 DONA										
377.00 > 251.00	3.143	3.132	0.011	0.833	4559928	0.9880	Target=3.16	105	3441	
377.00 > 85.00	3.143	3.132	0.011	0.833	1380714		3.30(1.58-4.73)		1376	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.447	3.439	0.008	0.997	250017	1.12		94.5	854	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.447	3.439	0.008	1.000	458126	1.02		107	724	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.447	3.439	0.008	0.914	1111428	0.9495	Target=5.14	99.7	2132	M
449.00 > 99.00	3.447	3.439	0.008	0.914	224054		4.96(2.57-7.72)		933	
D 14 13C4 PFOA										
417.00 > 372.00	3.456	3.448	0.008	1.000	2470776	1.22		97.2	4655	
* 62 13C2 PFOA										
415.00 > 370.00	3.456	3.448	0.008		2455815	1.25			3015	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.456	3.448	0.008	1.000	2022260	0.9570	Target=2.79	95.7	148	M
413.00 > 169.00	3.456	3.448	0.008	1.000	713160		2.84(1.40-4.19)		1359	M
D 18 13C4 PFOS										
503.00 > 80.00	3.773	3.764	0.009	1.092	1001486	1.11		93.0	2601	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.773	3.764	0.009	1.000	879239	0.8627	Target=5.11	93.0	718	M
499.00 > 99.00	3.773	3.764	0.009	1.000	184179		4.77(2.55-7.66)		505	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.792	3.783	0.009	1.000	2053800	0.9877	Target=8.55	98.8	478	
463.00 > 169.00	3.792	3.783	0.009	1.000	238854		8.60(4.28-12.83)		1680	
D 19 13C5 PFNA										
468.00 > 423.00	3.792	3.783	0.009	1.097	2505710	1.27		101	4877	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.940	3.928	0.012	1.044	2168634	0.9271		99.5	4580	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.076	706483	0.9184	Target=2.53	95.7	2089	
549.00 > 99.00	4.061	4.050	0.011	1.076	285709		2.47(1.27-3.80)		1244	
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.184	2507042	1.25		99.6	5761	

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	4.093	4.081	0.012	1.000	2093547	0.9625	Target=10.26	96.3	845	
513.00 > 169.00	4.093	4.081	0.012	1.000	198722		10.54(5.13-15.38)		647	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.093	0.011	1.187	303718	1.11		93.1	1367	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.093	0.011	1.000	406888	0.99		104	1038	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.161	4.150	0.011	1.003	1432142	0.9562		95.6	1910	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.201	1792102	1.09		86.8	2387	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.238	4.228	0.010	1.226	493358	1.20		96.3	633	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.000	349473	1.02		102	452	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.342	4.331	0.011	1.151	539088	0.8875	Target=2.51	92.1	2415	
599.00 > 99.00	4.342	4.331	0.011	1.151	204056		2.64(1.25-3.76)		1577	
D 30 13C2 PFUnA										
565.00 > 520.00	4.364	4.353	0.011	1.263	2279583	1.24		98.9	4197	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.364	4.353	0.011	1.000	1719086	0.9354	Target=9.88	93.5	821	M
563.00 > 169.00	4.364	4.353	0.011	1.000	172853		9.95(4.94-14.82)		1099	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.000	332171	0.9588		95.9	1219	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.376	4.365	0.011	1.266	483709	1.20		95.9	907	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.465	4.454	0.011	1.183	3104009	0.8608		91.4	4523	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.591	0.010	1.000	1716339	0.9501	Target=7.77	95.0	134	M
613.00 > 169.00	4.601	4.591	0.010	1.000	229349		7.48(3.89-11.66)		856	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.591	0.010	1.331	2131367	1.13		90.8	3630	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.622	4.612	0.010	1.126	225366	0.9145		94.9	1660	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.785	4.776	0.009	1.268	215380	0.8381	Target=0.50	86.6	1205	M
699.00 > 99.00	4.785	4.776	0.009	1.268	415619		0.52(0.25-0.76)		3536	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.046	1729691	1.00	Target=5.21	100	135	
663.00 > 169.00	4.813	4.804	0.009	1.046	297051		5.82(2.60-7.81)		1020	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.022	5.012	0.010	1.000	192065	0.9288	Target=0.89	92.9	978	M
713.00 > 219.00	5.012	5.012	0.0	0.998	213360		0.90(0.44-1.33)		1324	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.022	5.012	0.010	1.453	1888023	1.16		93.0	4435	

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	5.378	5.367	0.011	1.000	1638831	0.9845	Target=5.65	98.5	157	
813.00 > 169.00	5.378	5.367	0.011	1.000	278172		5.89(2.82-8.47)		1667	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.367	0.011	1.556	2224298	1.11		88.6	3719	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.740	5.722	0.018	1.067	1286167	0.8776	Target=6.24	87.8	166	M
913.00 > 169.00	5.740	5.722	0.018	1.067	187828		6.85(3.12-9.36)		885	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

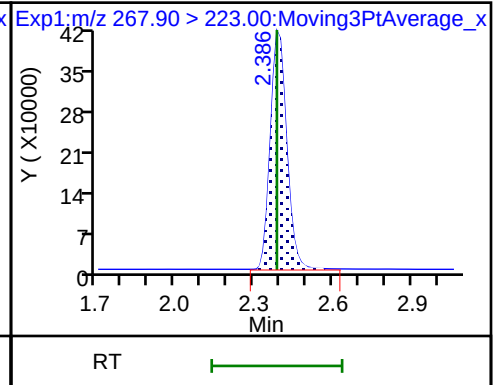
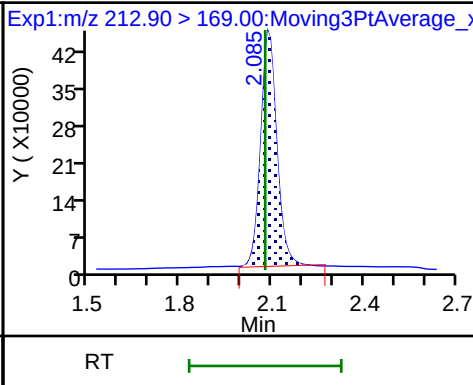
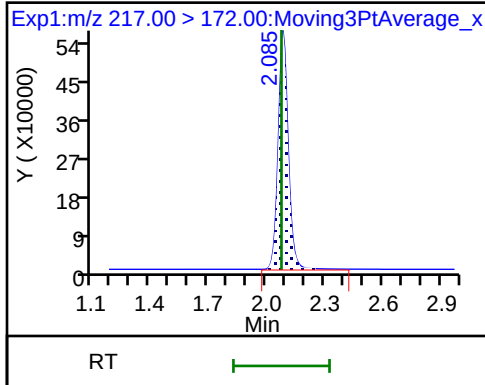
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

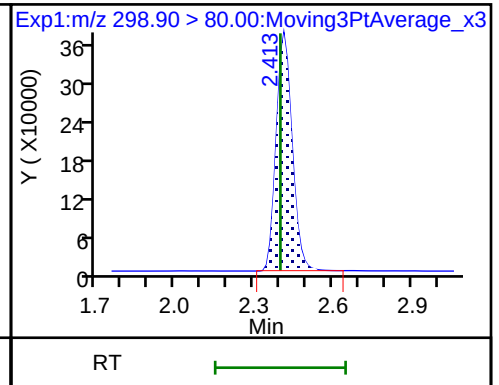
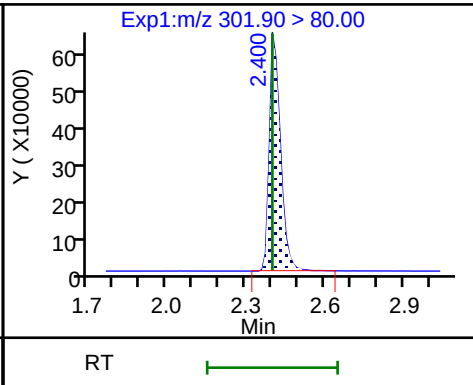
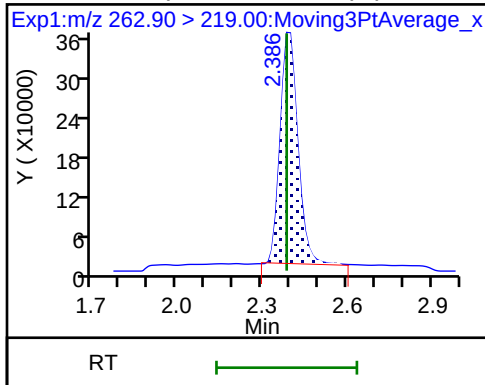
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

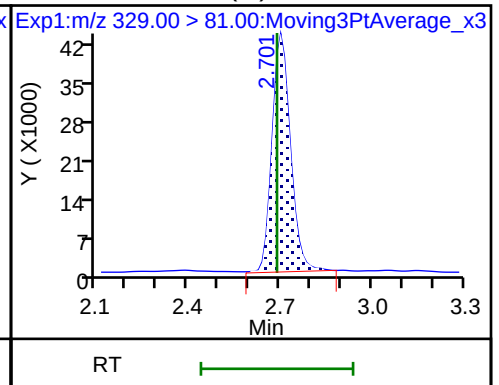
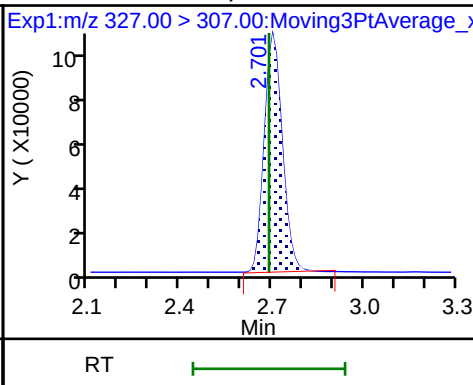
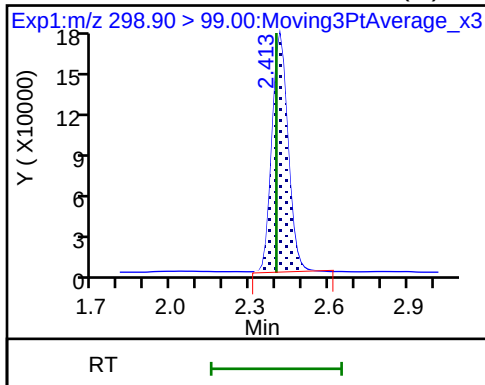
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

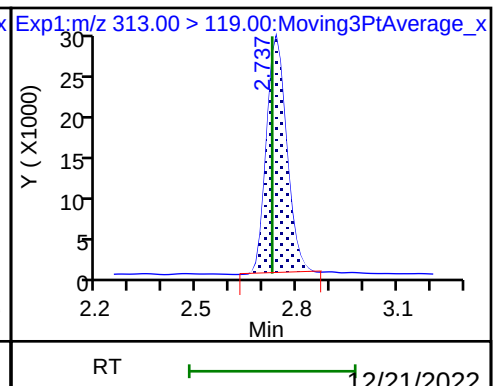
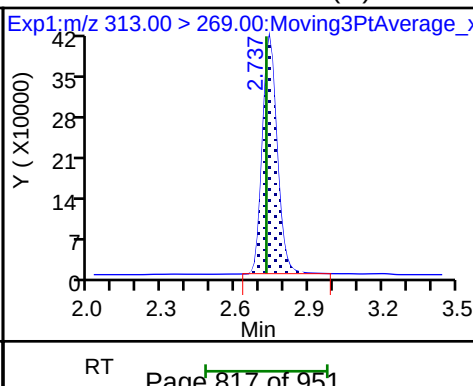
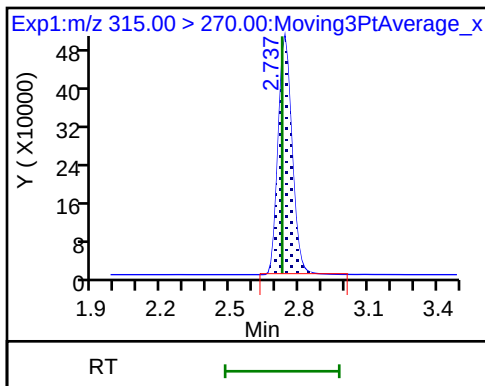
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

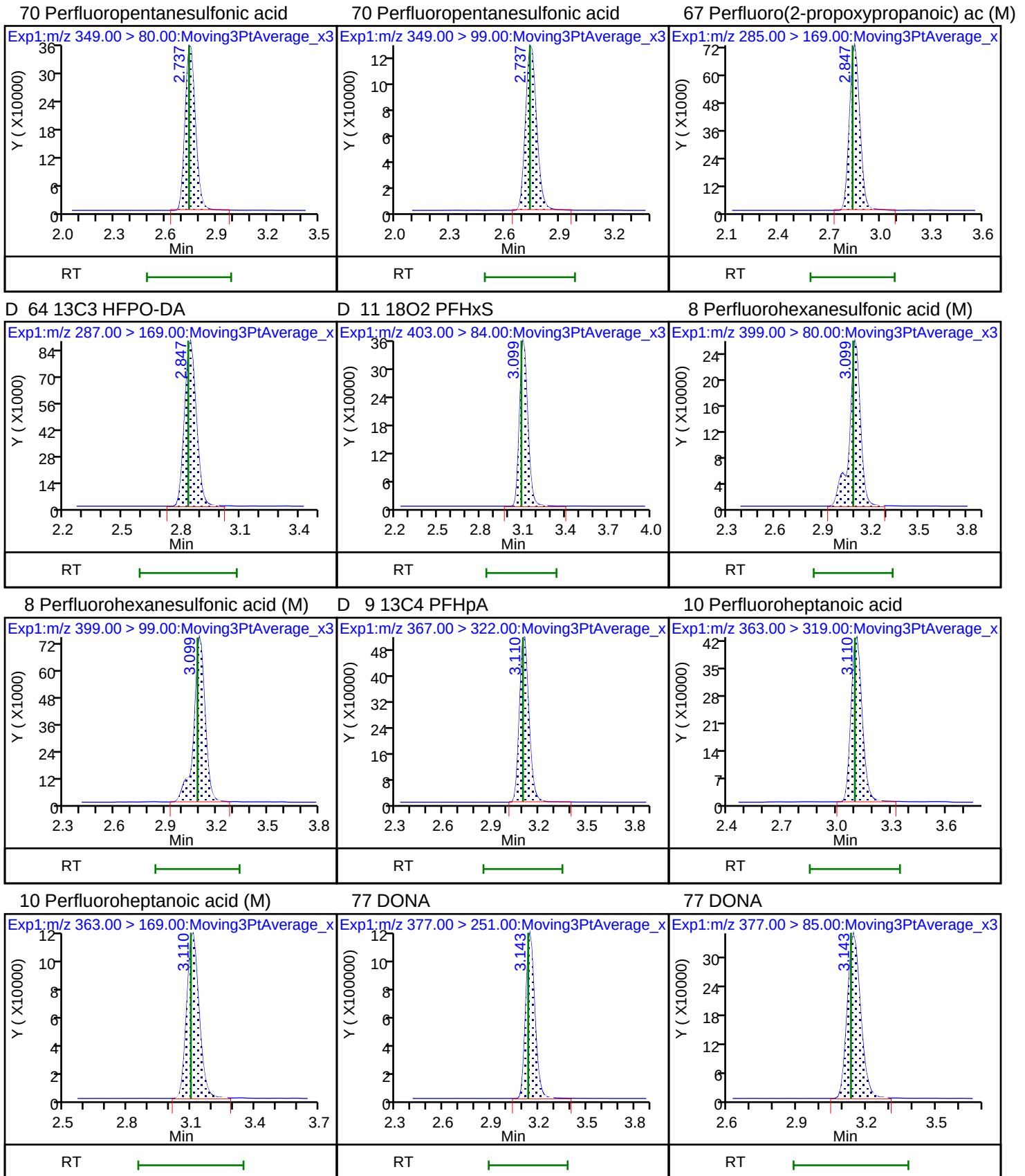


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

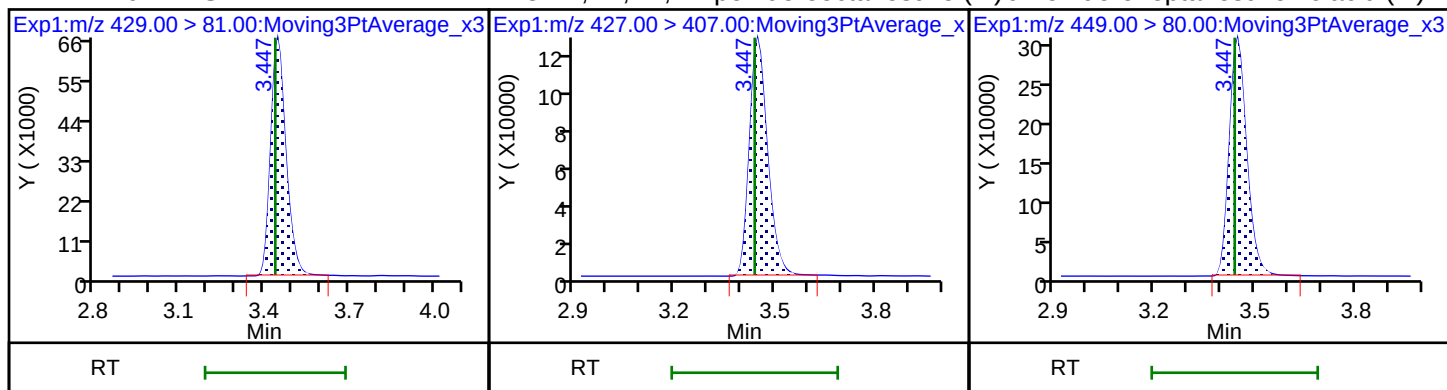
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

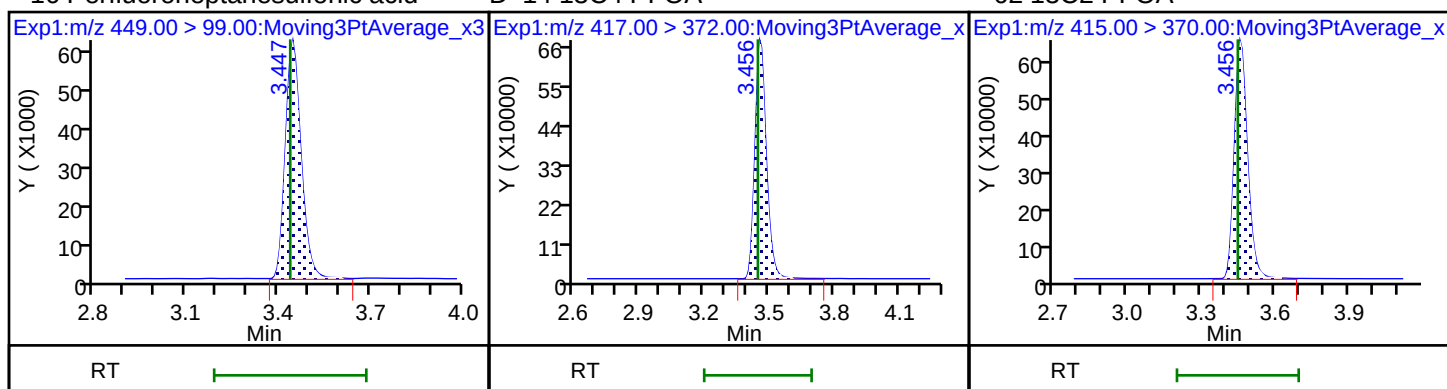
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

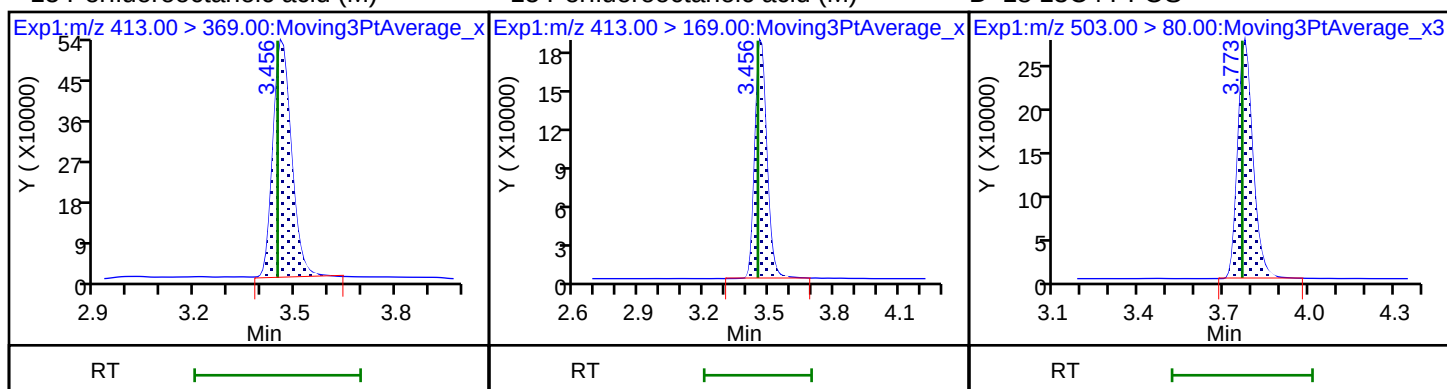
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

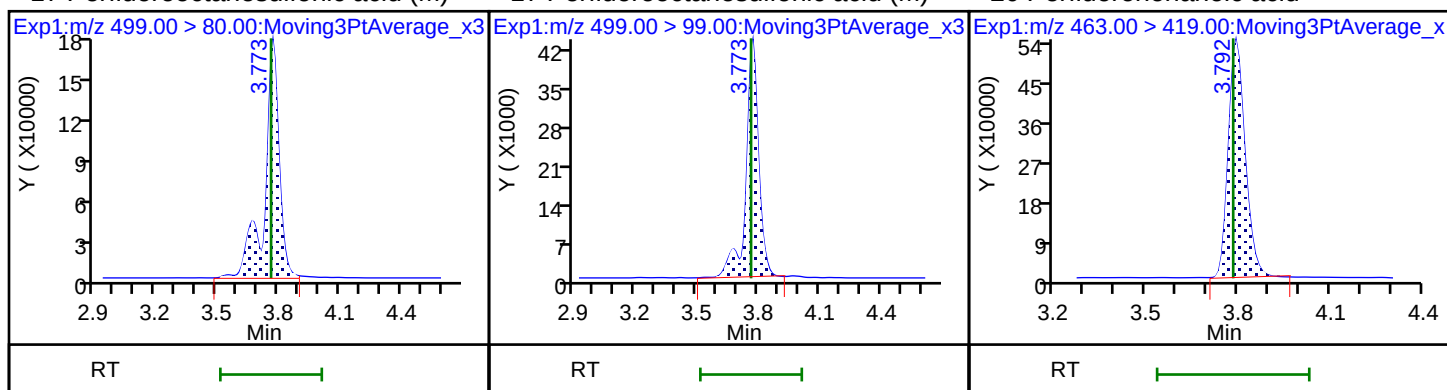
D 18 13C4 PFOS

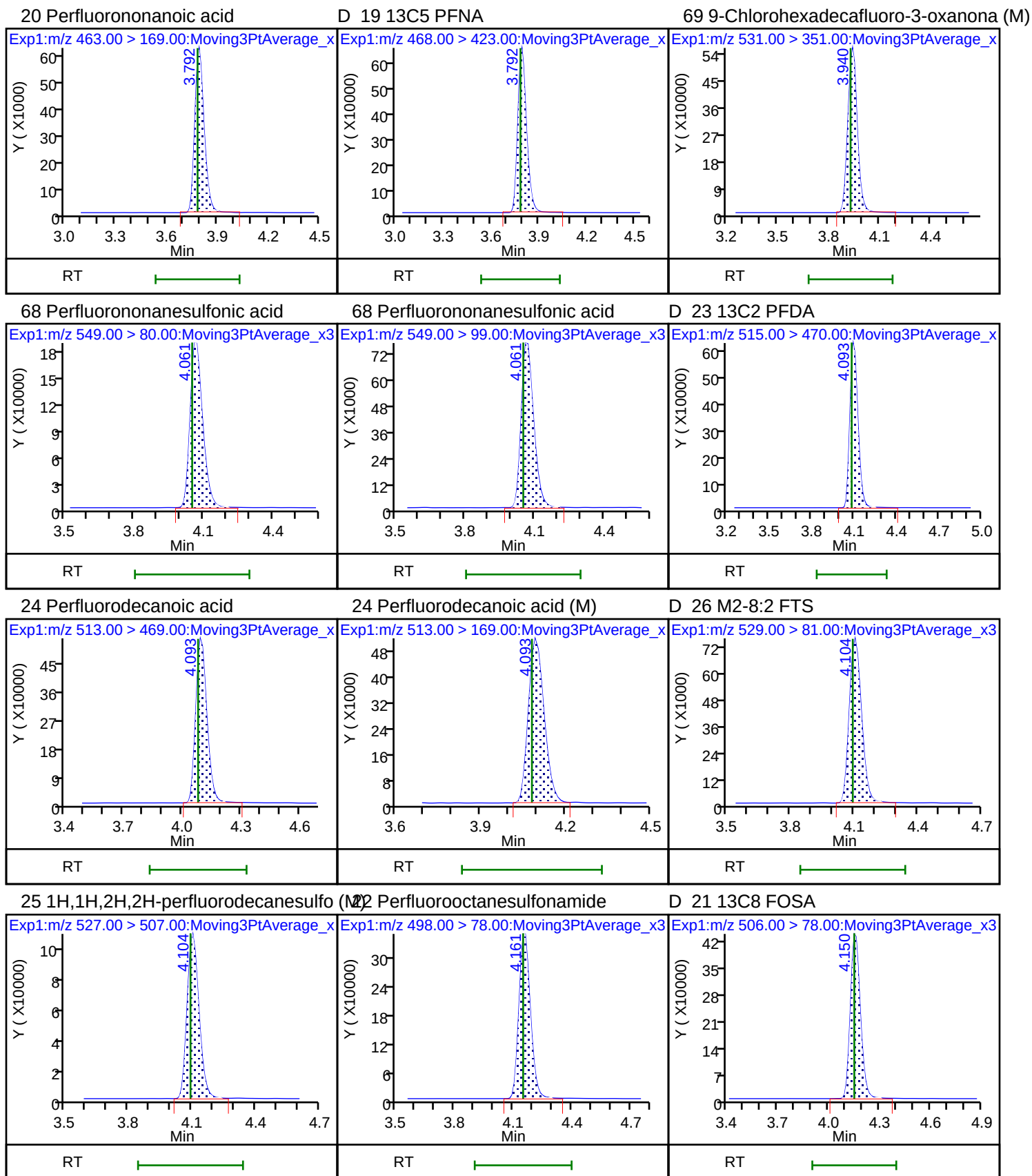


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

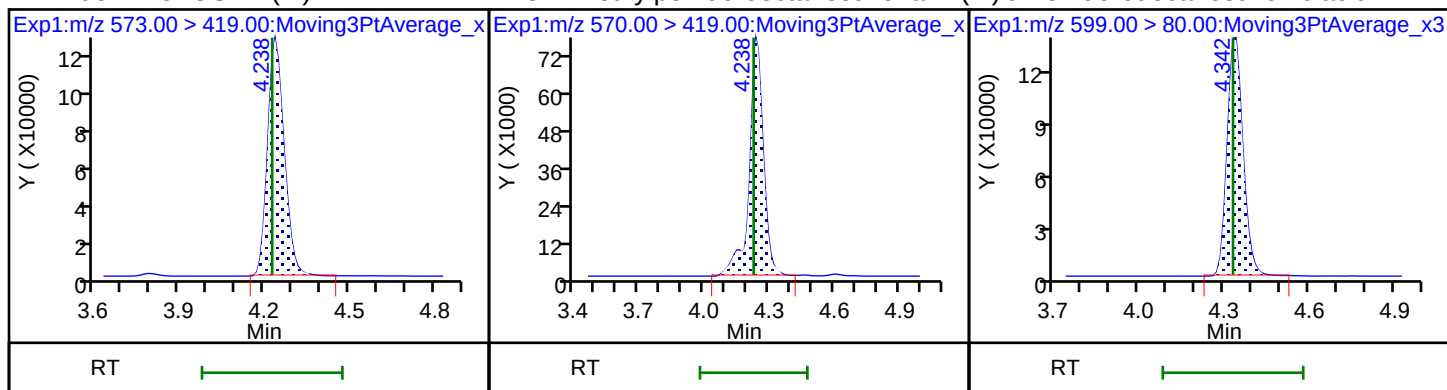




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

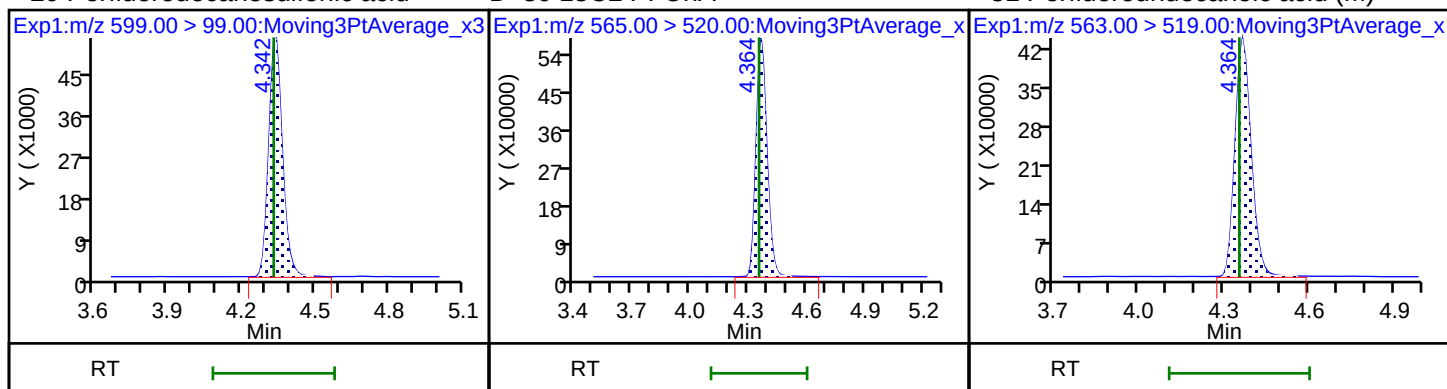
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

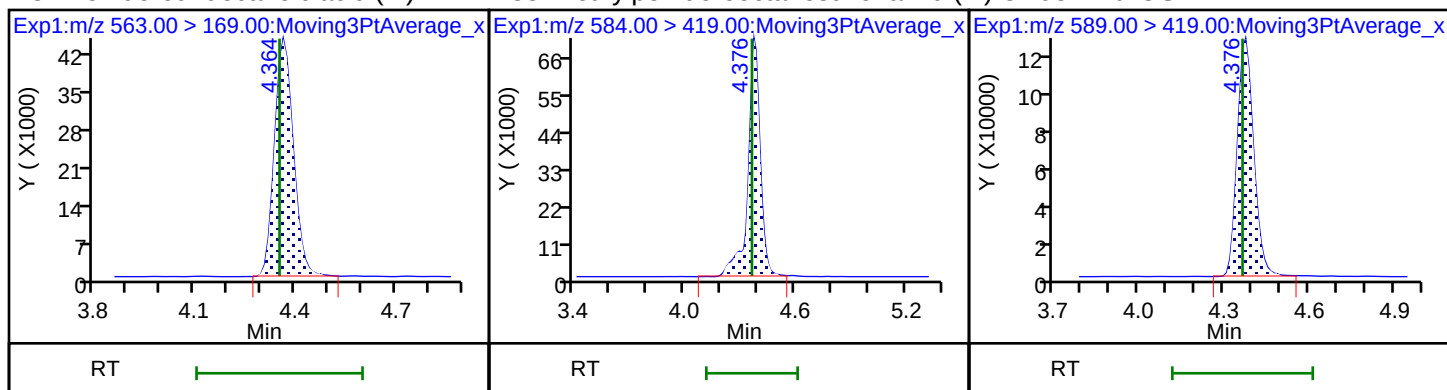
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

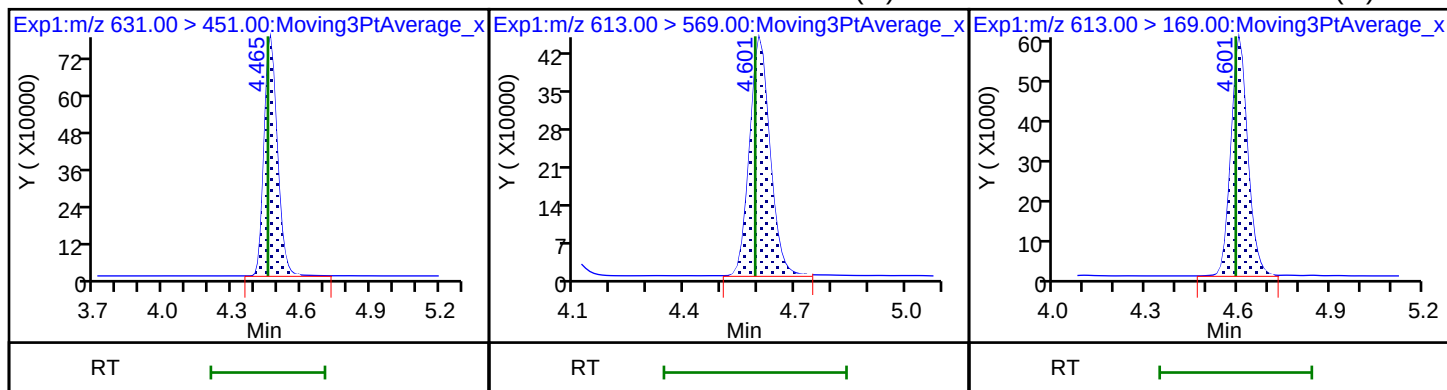
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

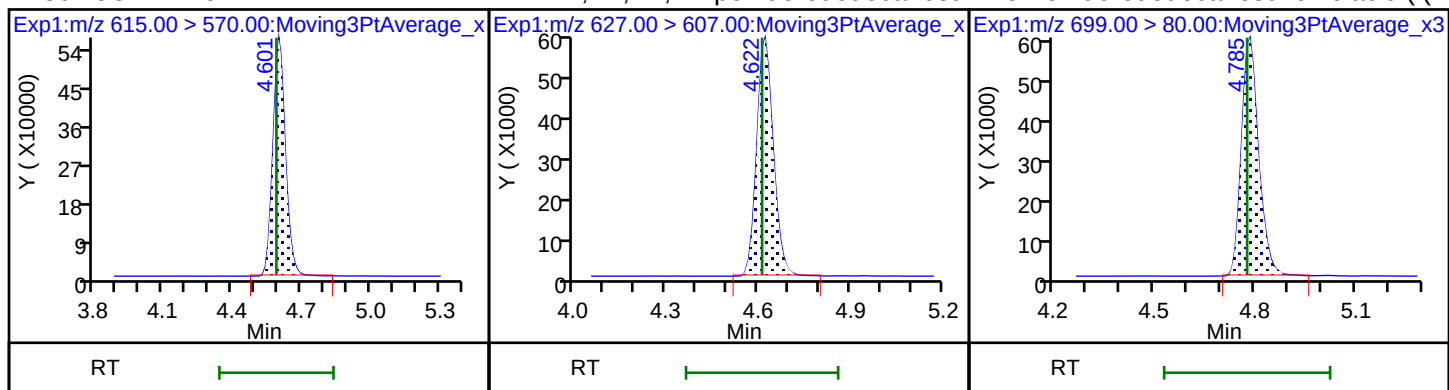
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

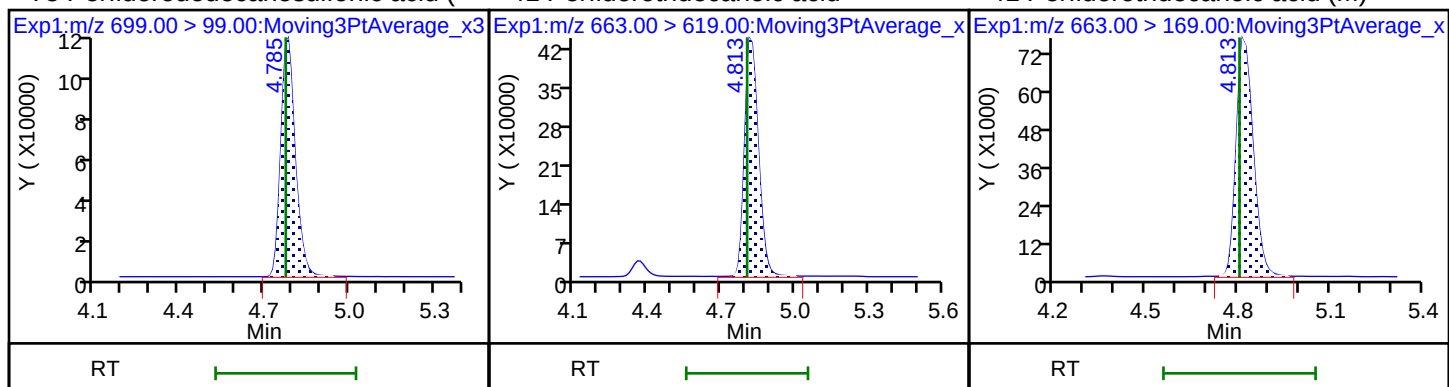
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

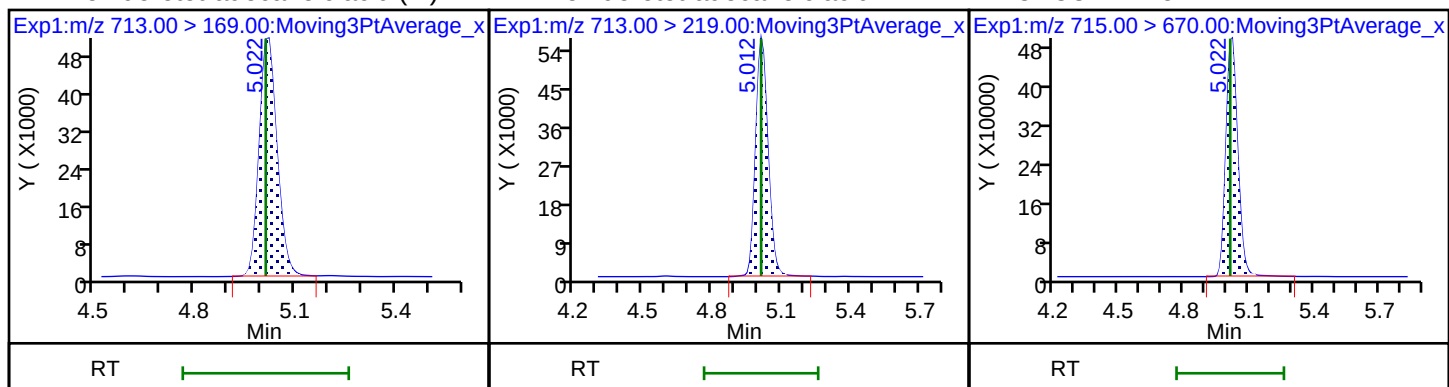
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

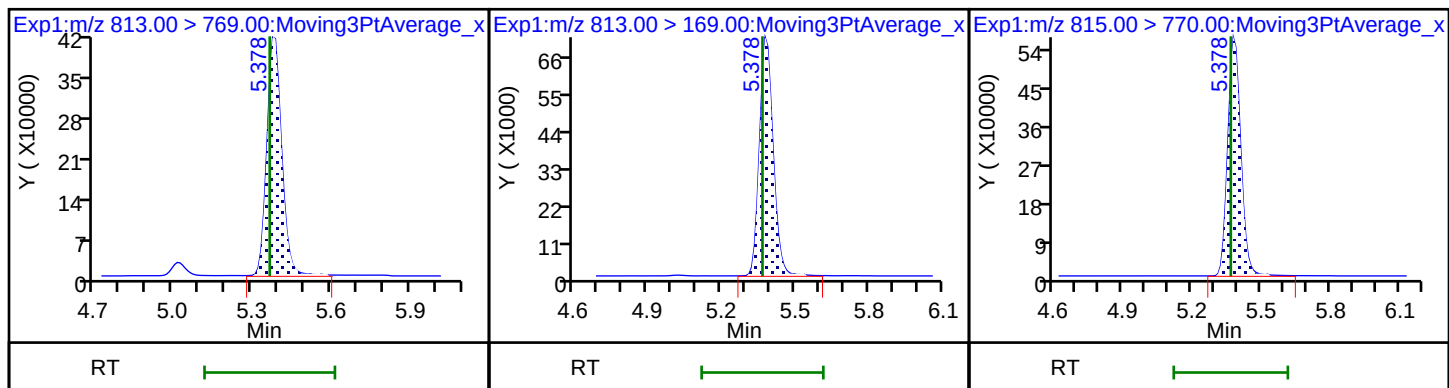
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid

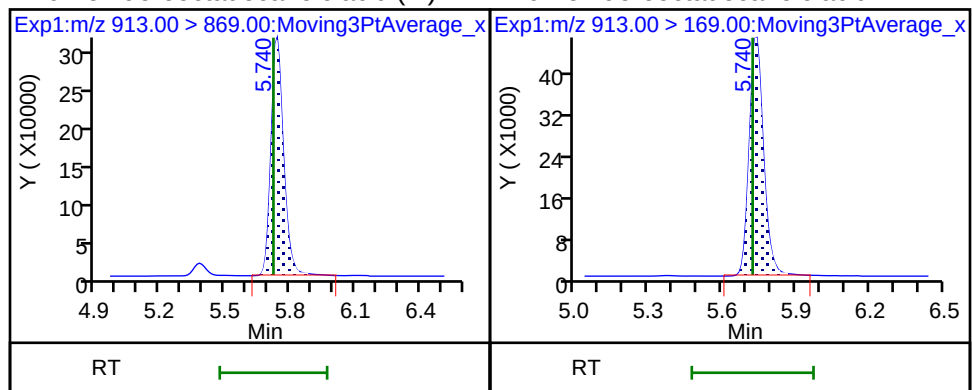
D 44 13C2 PFHxDA



Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

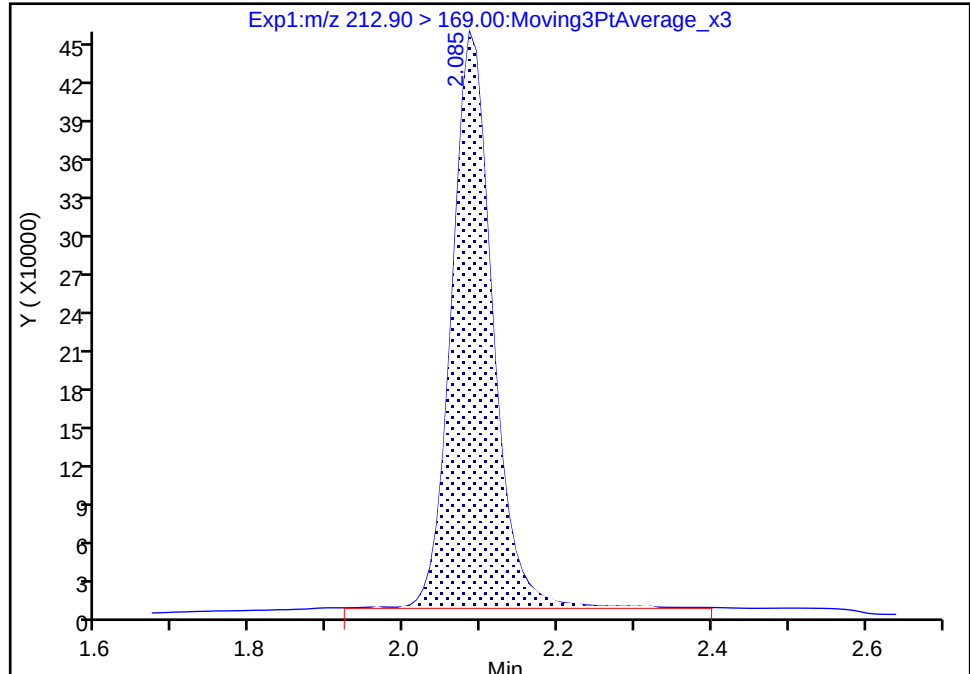
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

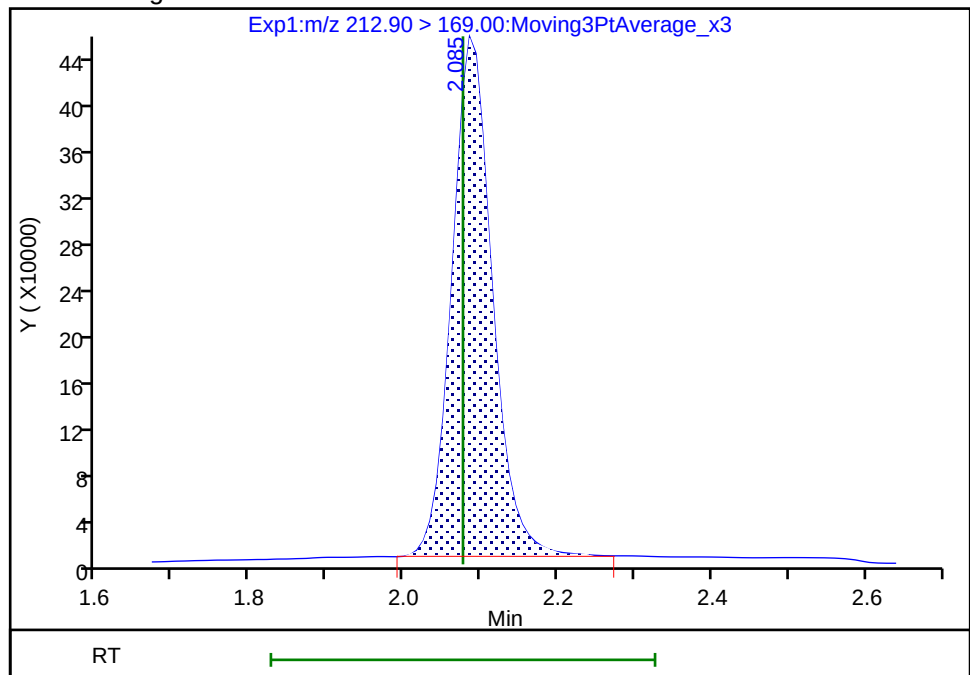
RT: 2.08
Area: 1650656
Amount: 0.982868
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1632441
Amount: 0.972022
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:20:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

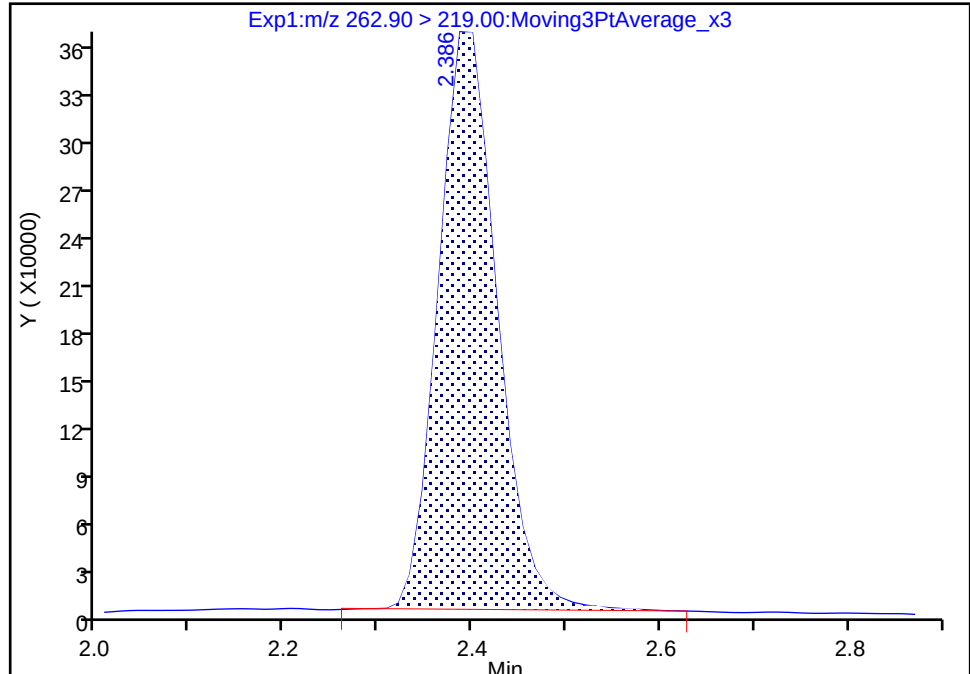
Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

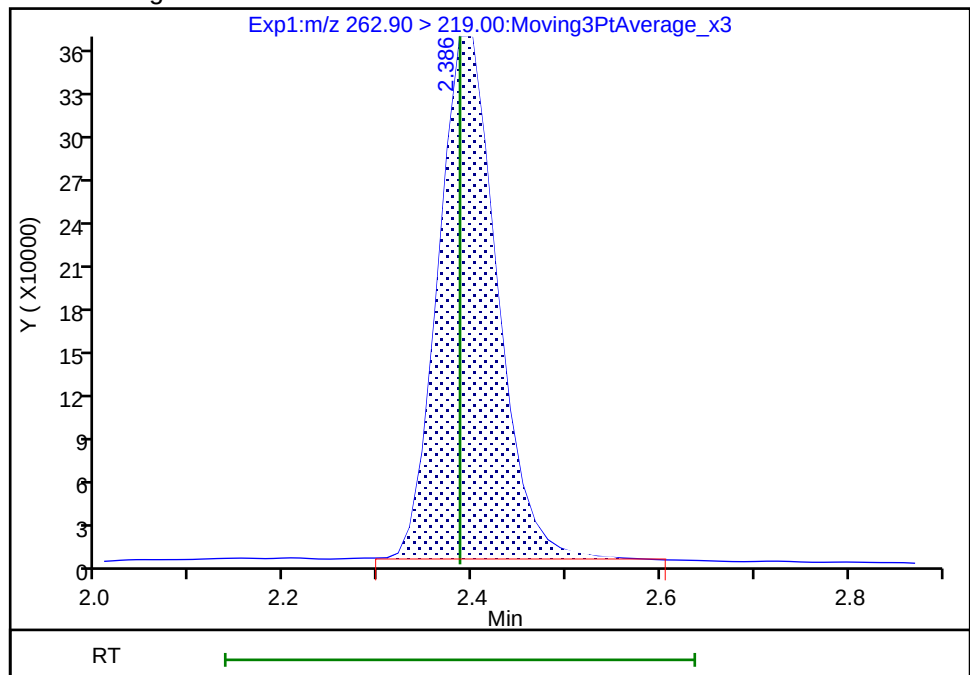
RT: 2.39
Area: 1539420
Amount: 0.984311
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1531516
Amount: 0.979257
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:20:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

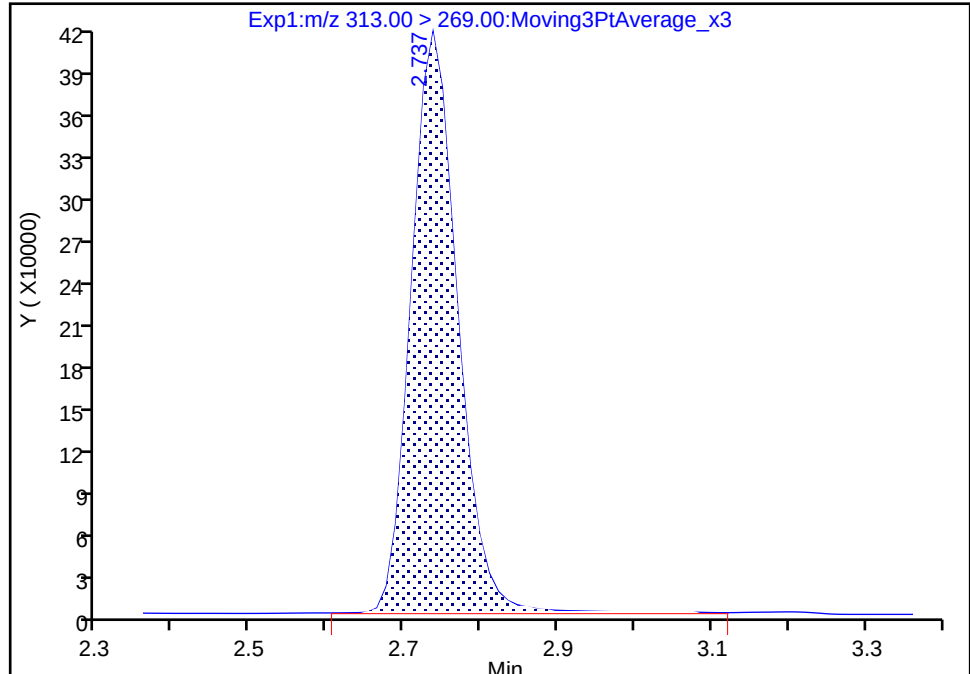
Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

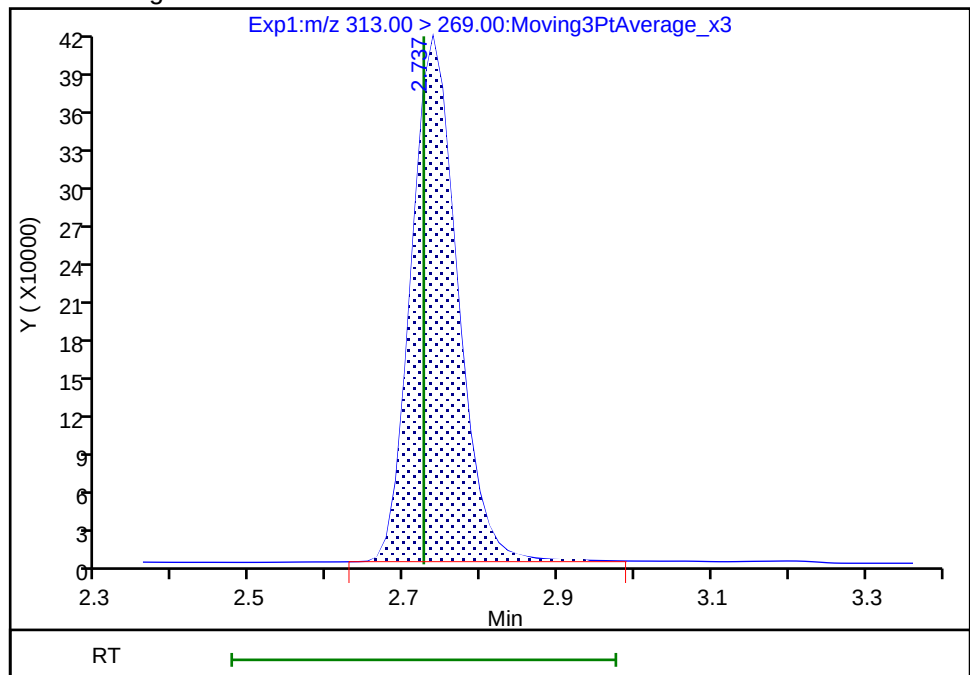
RT: 2.74
Area: 1749114
Amount: 0.952568
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1738254
Amount: 0.946653
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:21:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

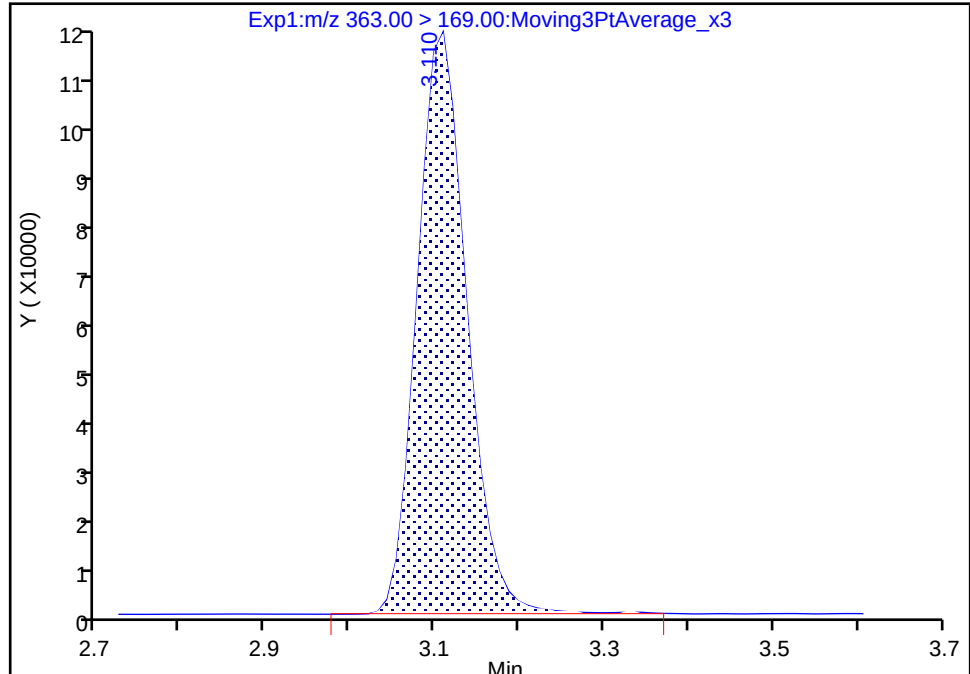
Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

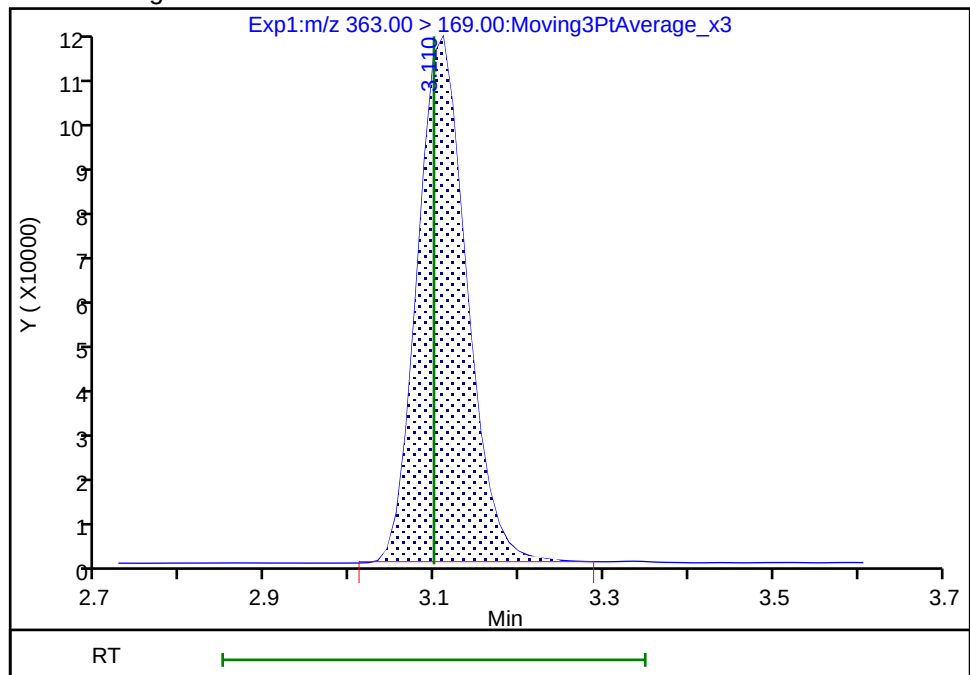
RT: 3.11
Area: 452064
Amount: 0.970909
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 449577
Amount: 0.970909
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:21:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

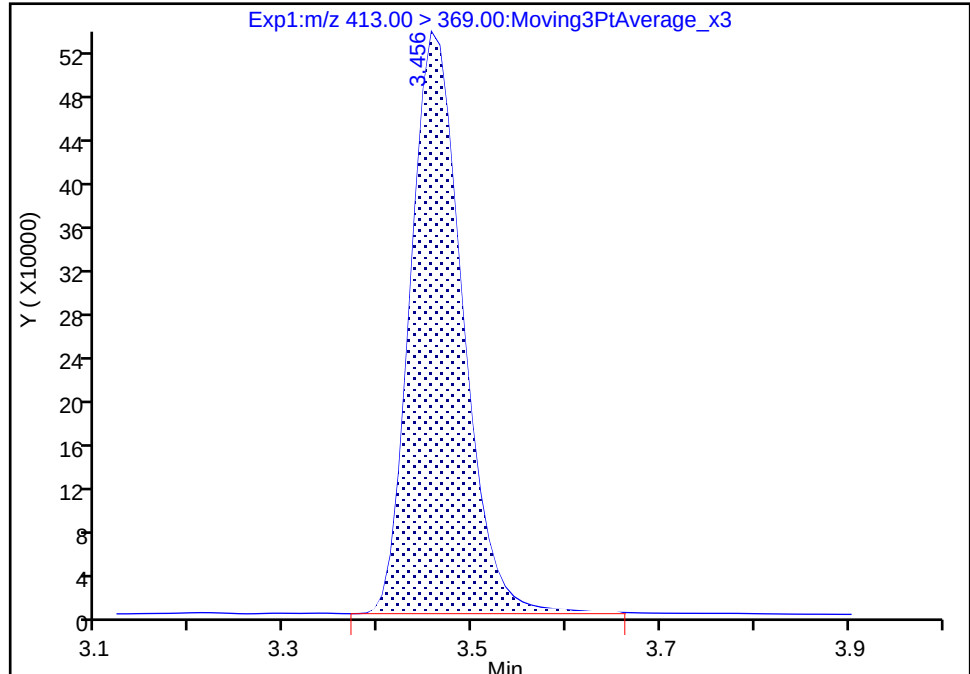
Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

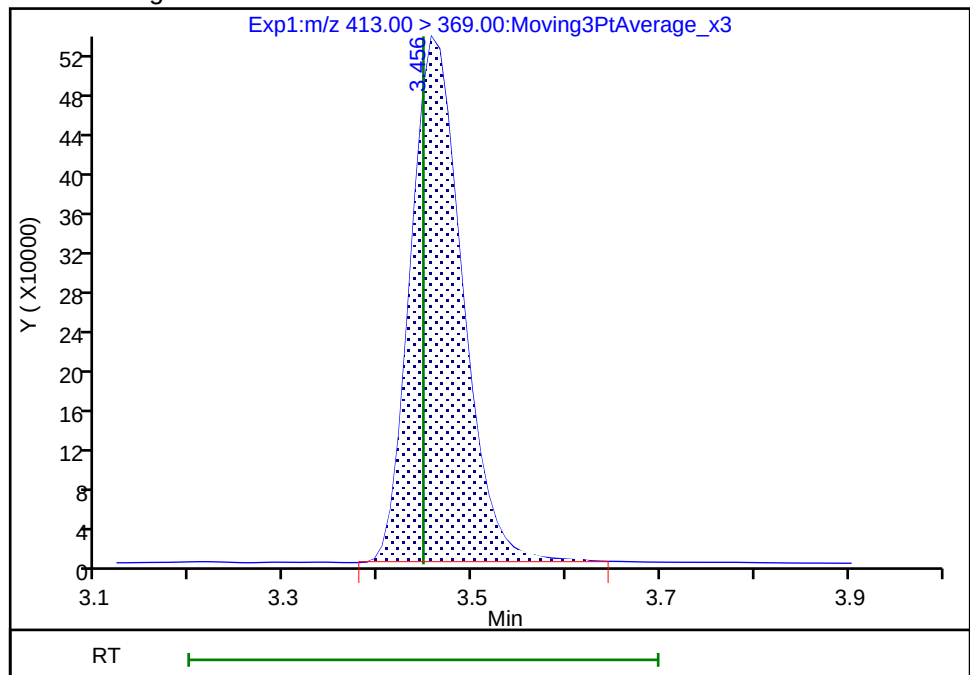
RT: 3.46
Area: 2025214
Amount: 0.958417
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 2022260
Amount: 0.957019
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:22:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

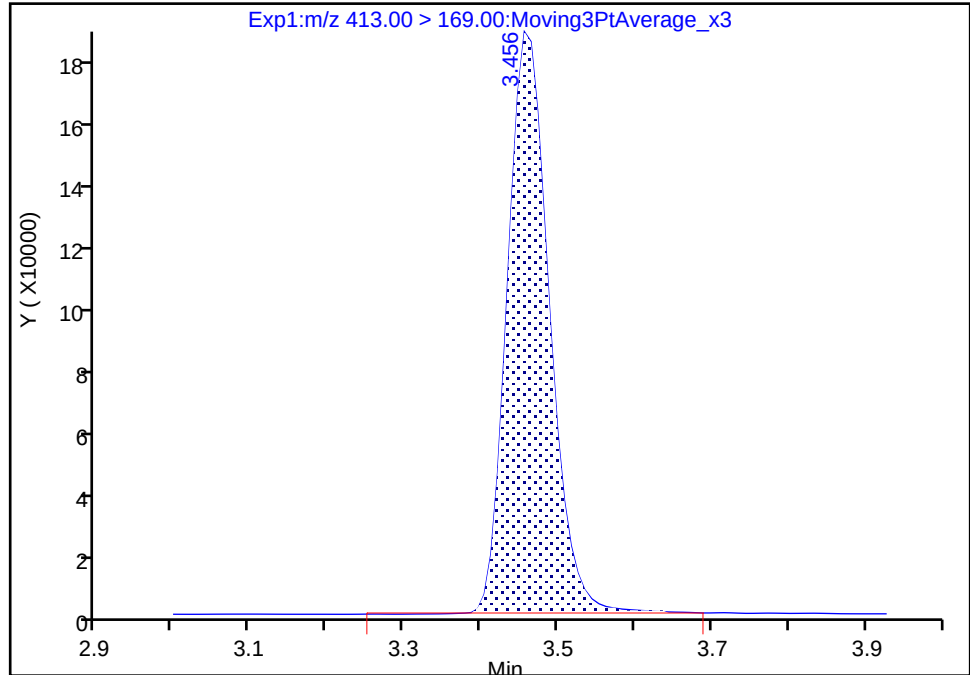
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

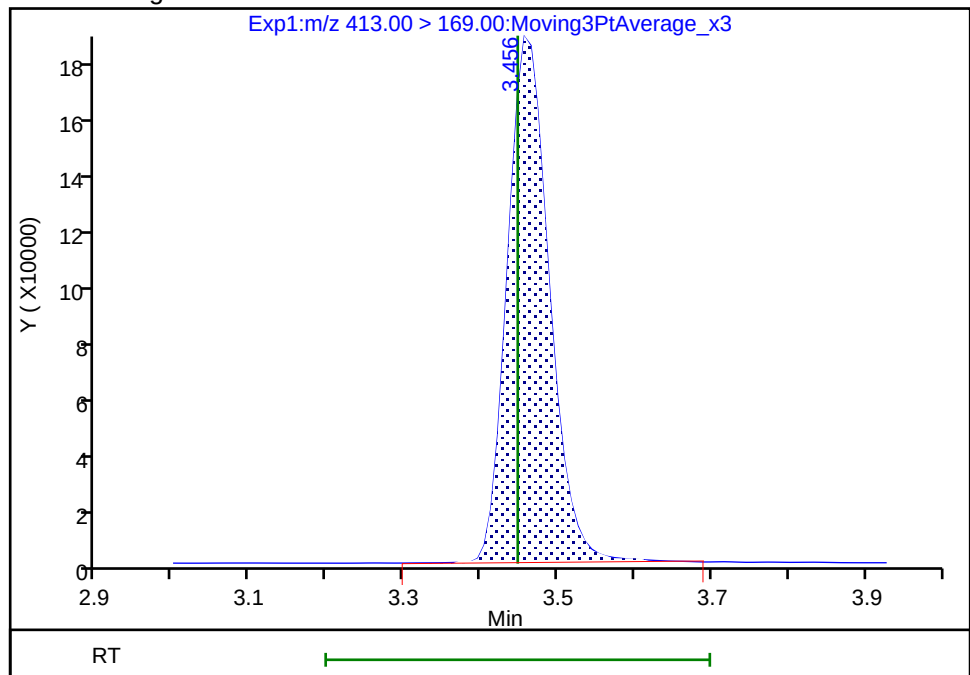
RT: 3.46
Area: 713252
Amount: 0.958417
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 713160
Amount: 0.957019
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:23:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

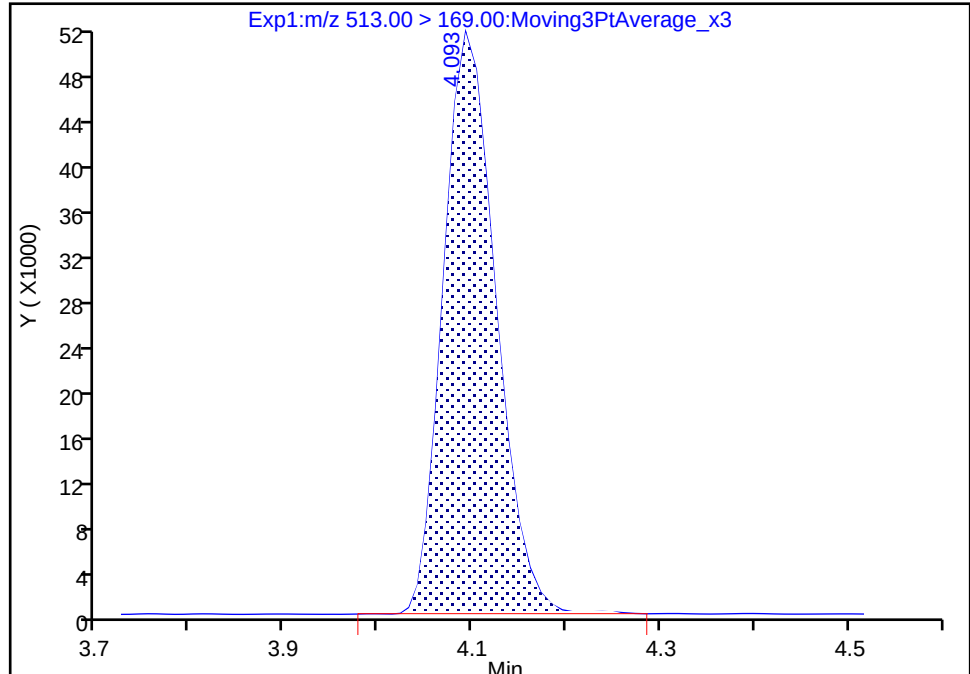
Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

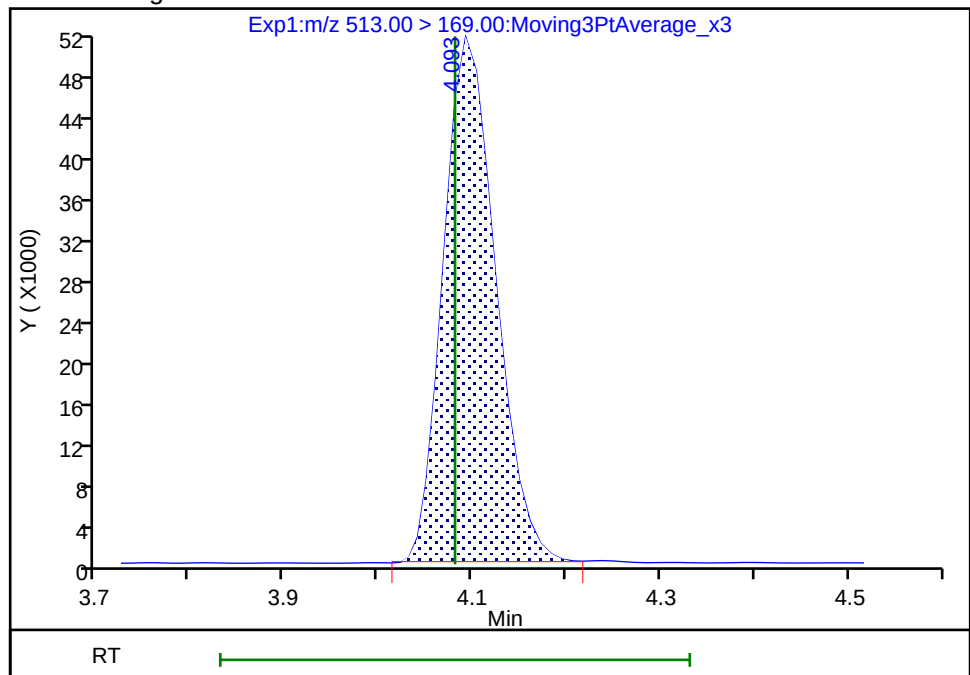
RT: 4.09
Area: 199265
Amount: 0.962533
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 198722
Amount: 0.962533
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

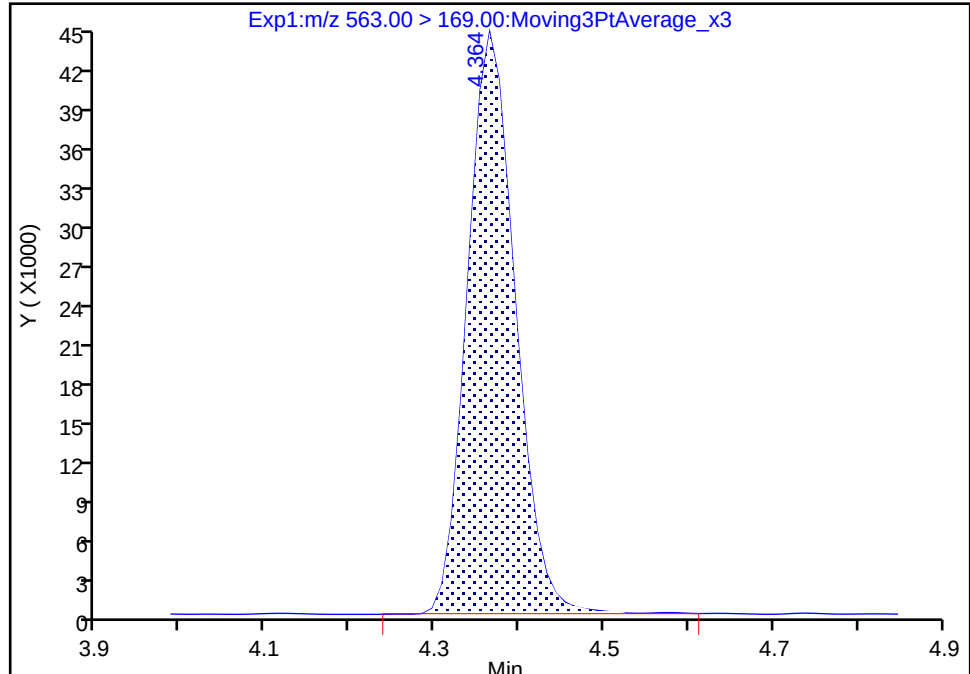
Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

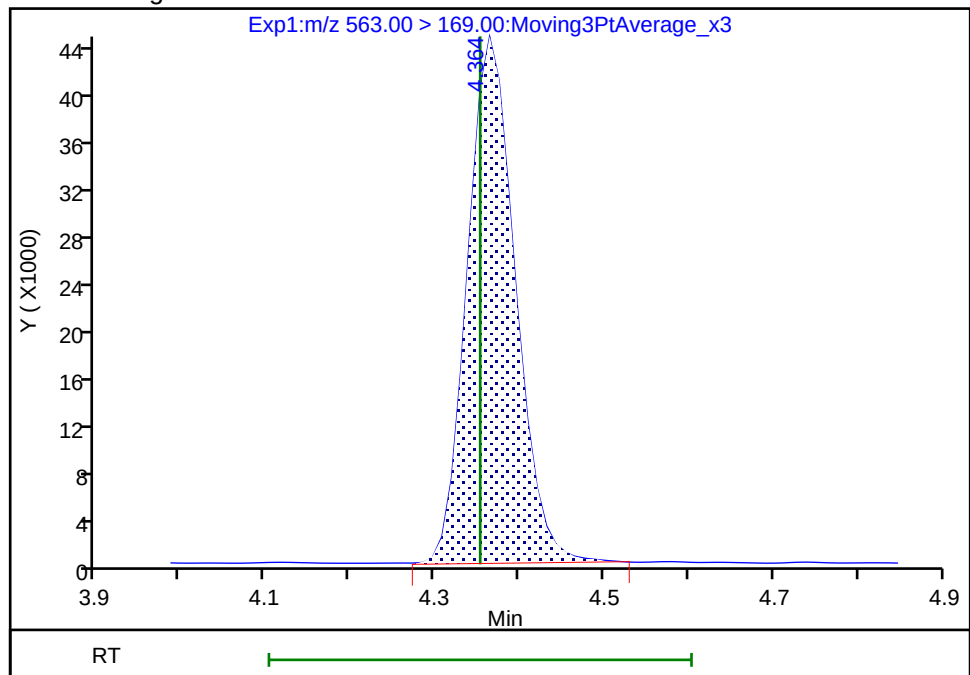
RT: 4.36
Area: 173461
Amount: 0.936197
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 172853
Amount: 0.935356
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

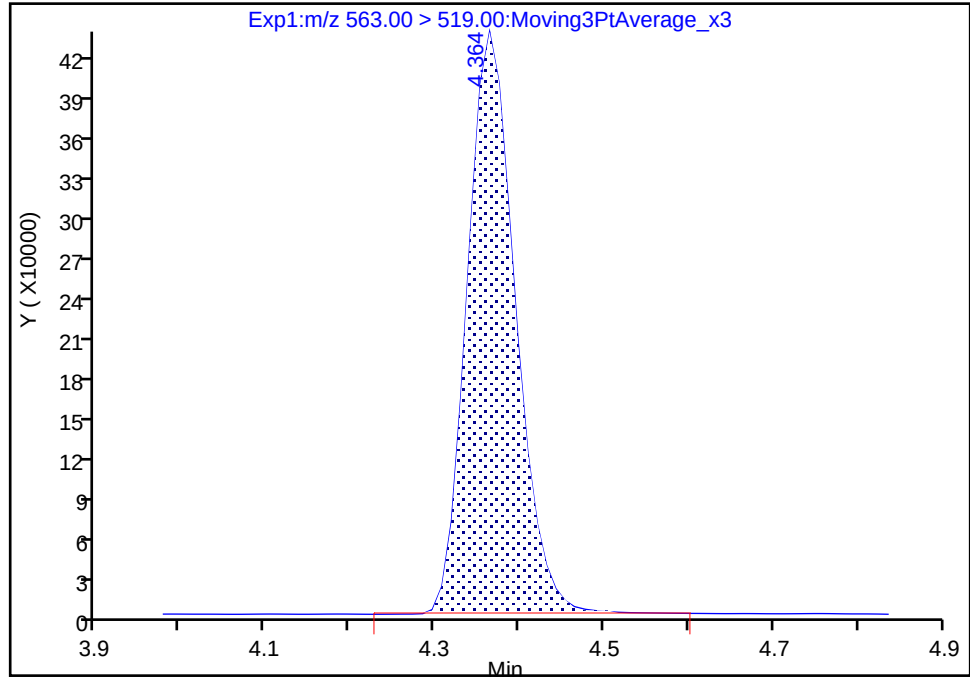
EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

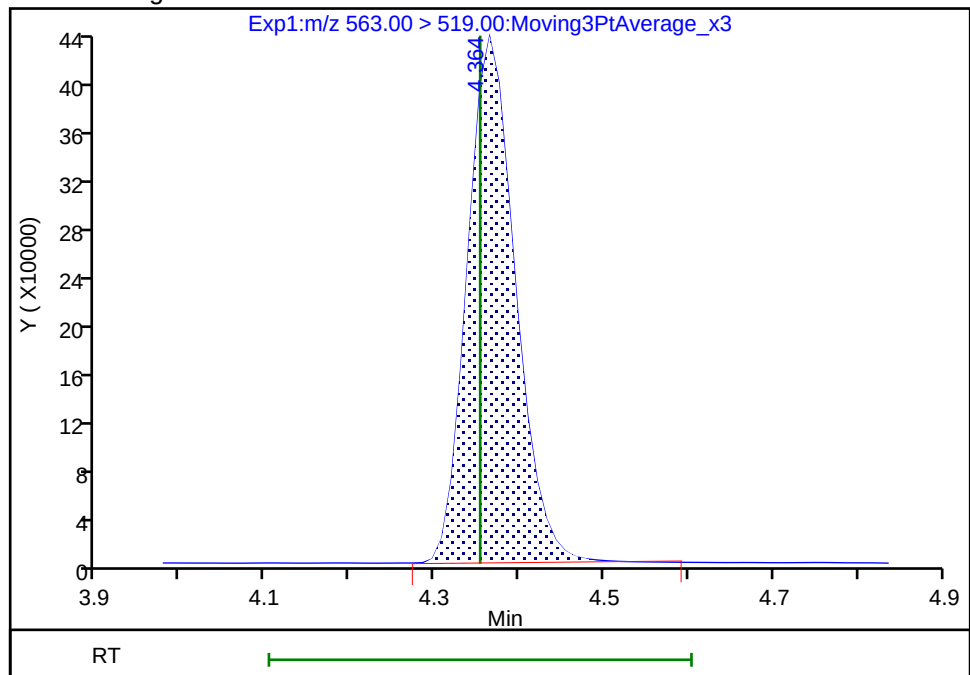
RT: 4.36
Area: 1720633
Amount: 0.936197
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 1719086
Amount: 0.935356
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

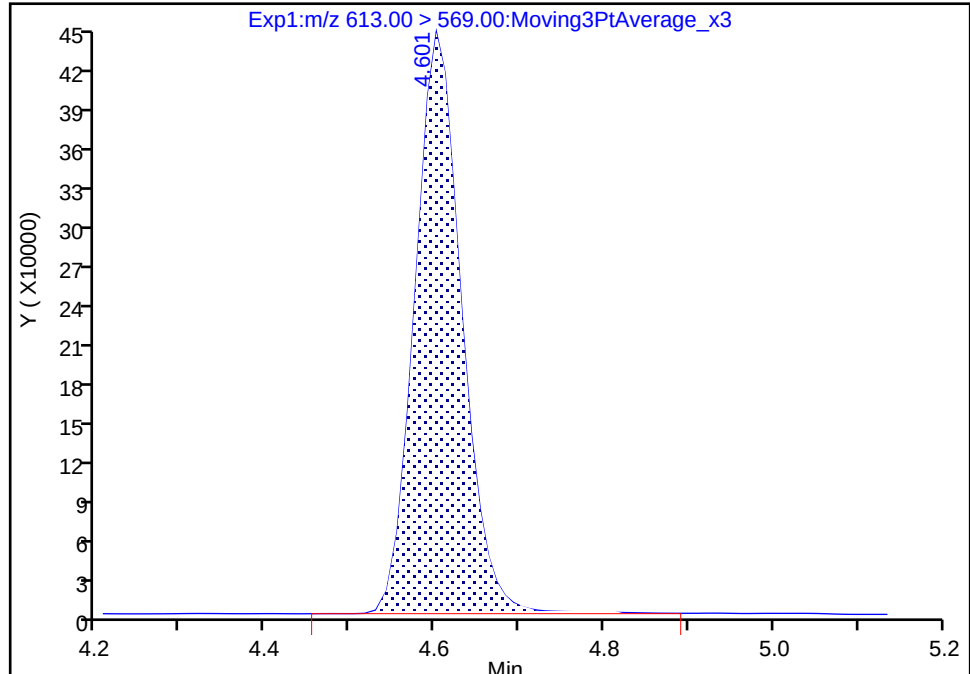
Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

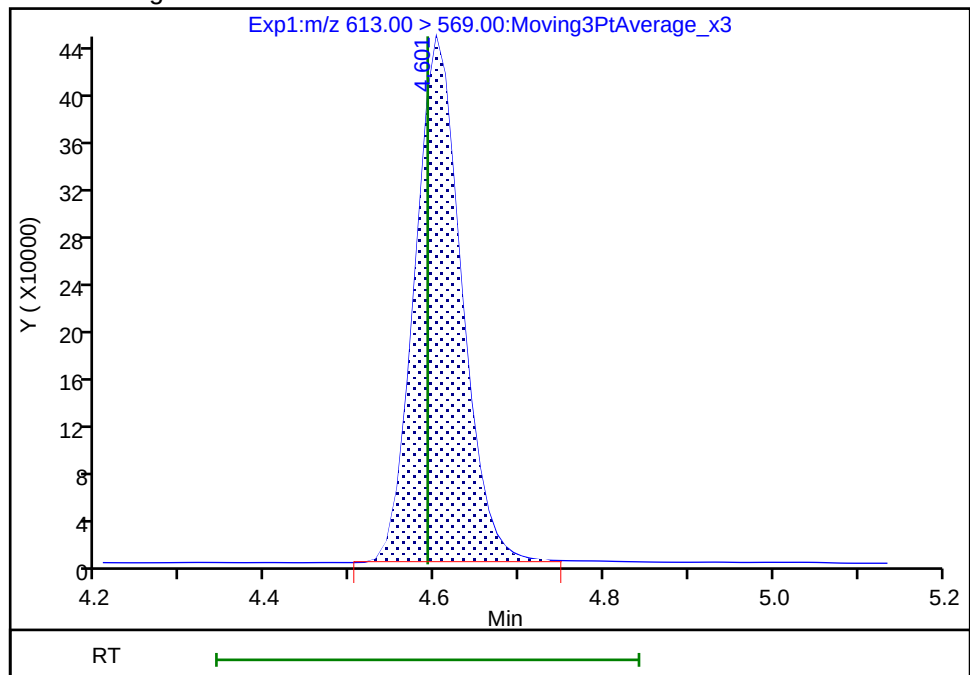
RT: 4.60
Area: 1722899
Amount: 0.953732
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 1716339
Amount: 0.950101
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

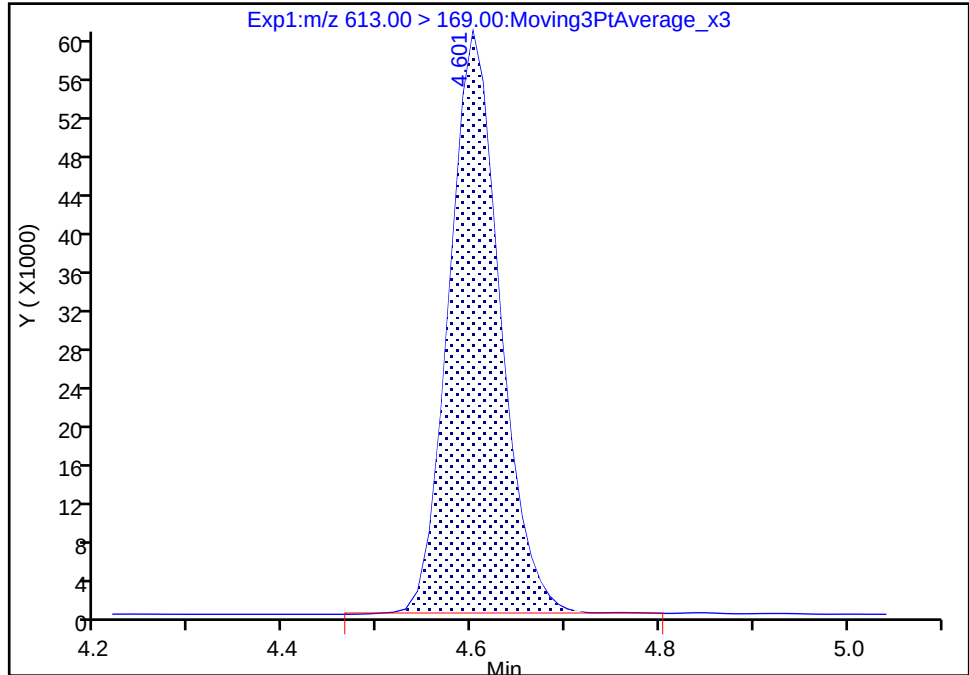
EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

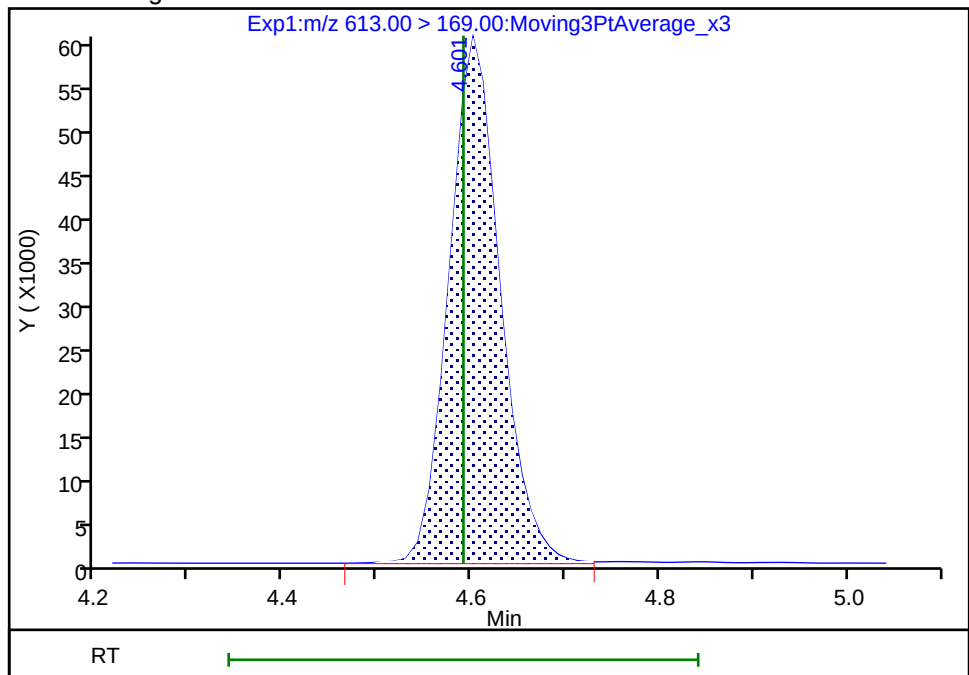
RT: 4.60
Area: 229647
Amount: 0.953732
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 229349
Amount: 0.950101
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:25:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

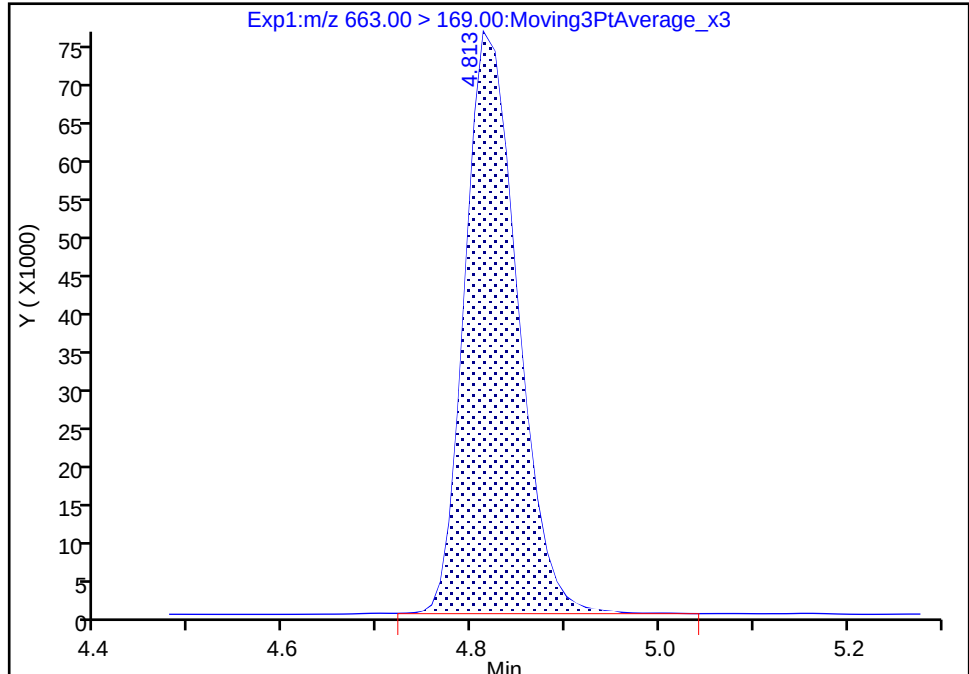
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

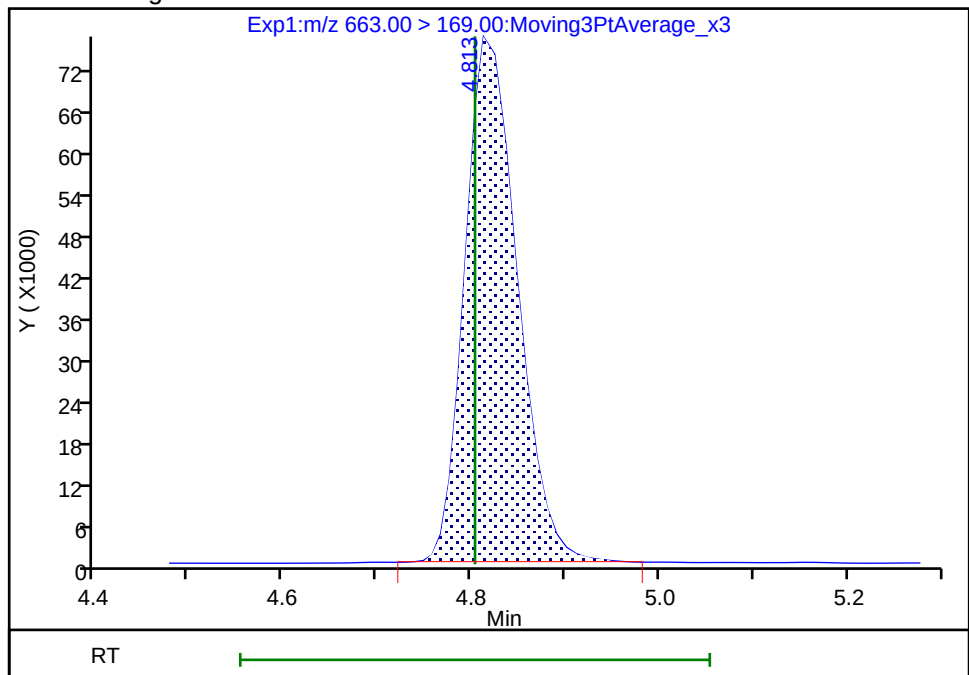
RT: 4.81
Area: 298745
Amount: 1.001182
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 297051
Amount: 1.001182
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:25:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

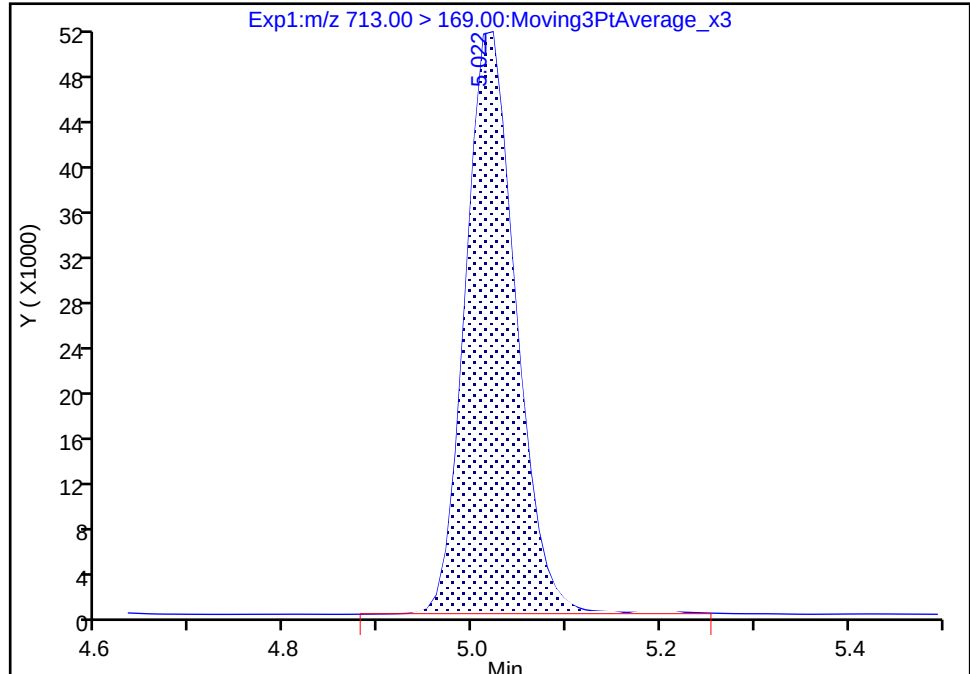
Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

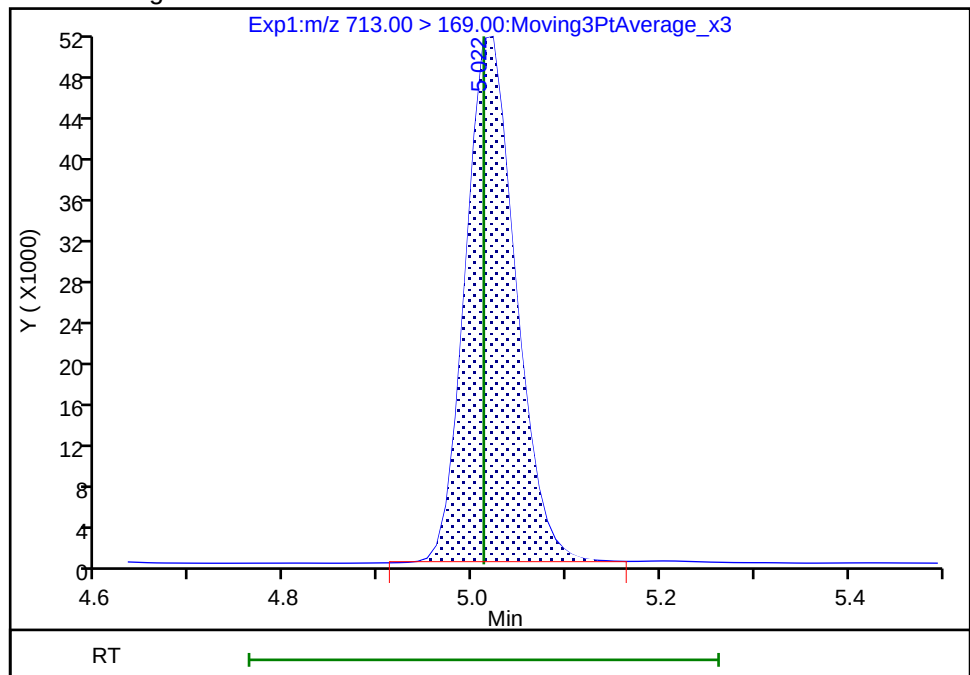
RT: 5.02
Area: 193415
Amount: 0.935369
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 192065
Amount: 0.928840
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:25:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

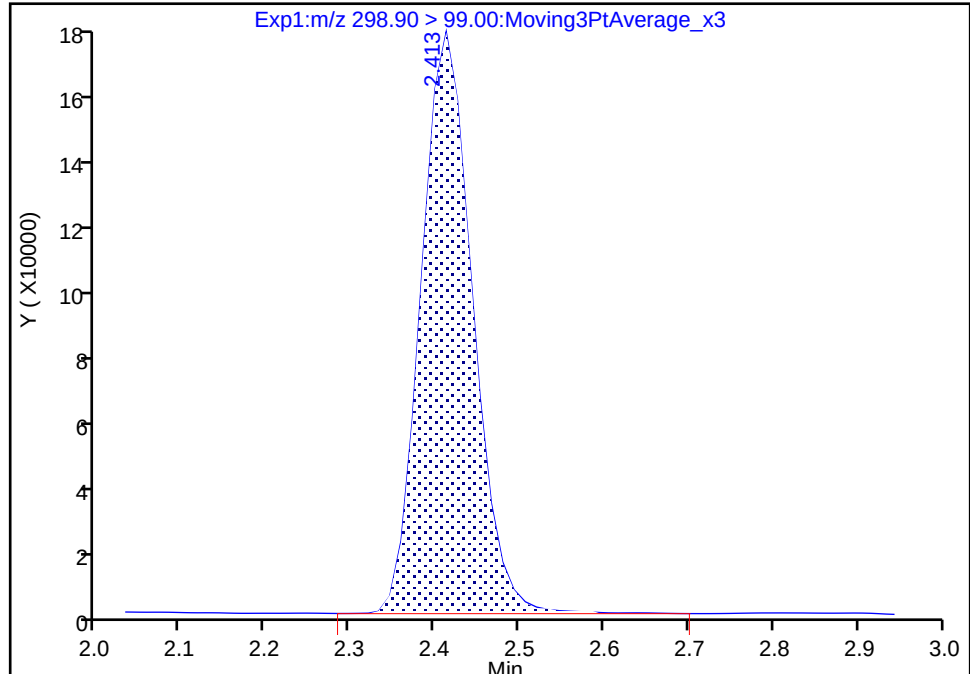
Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

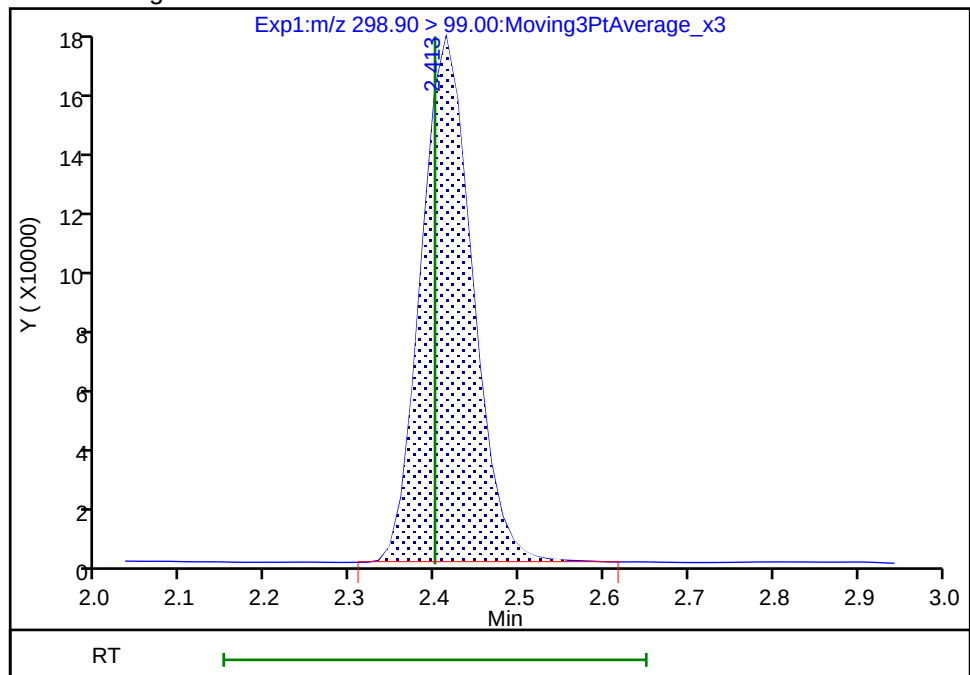
RT: 2.41
Area: 745616
Amount: 0.830467
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 742898
Amount: 0.830467
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:20:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

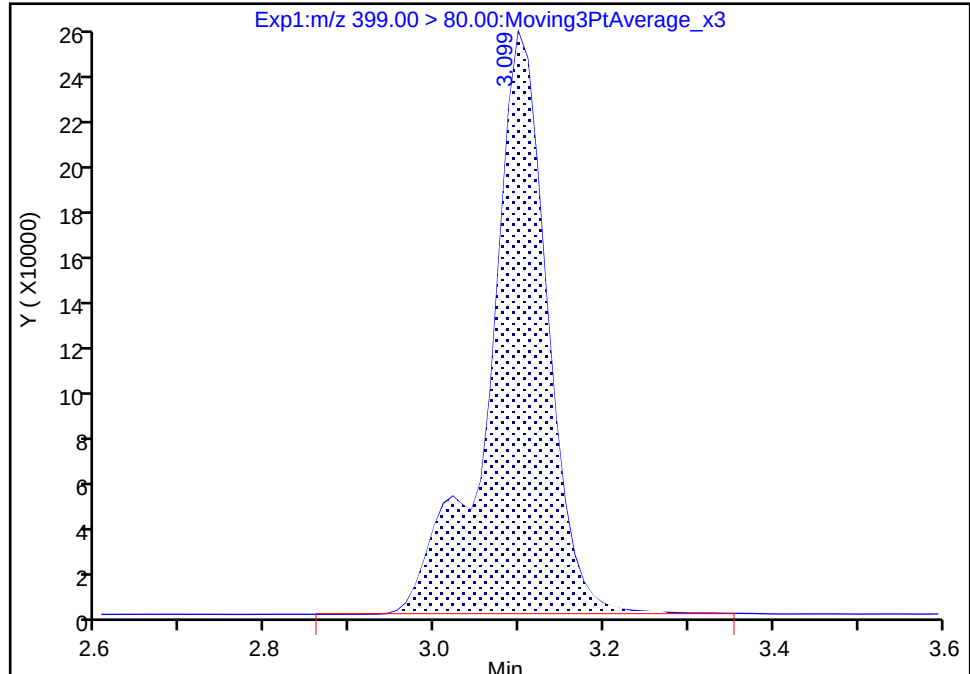
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

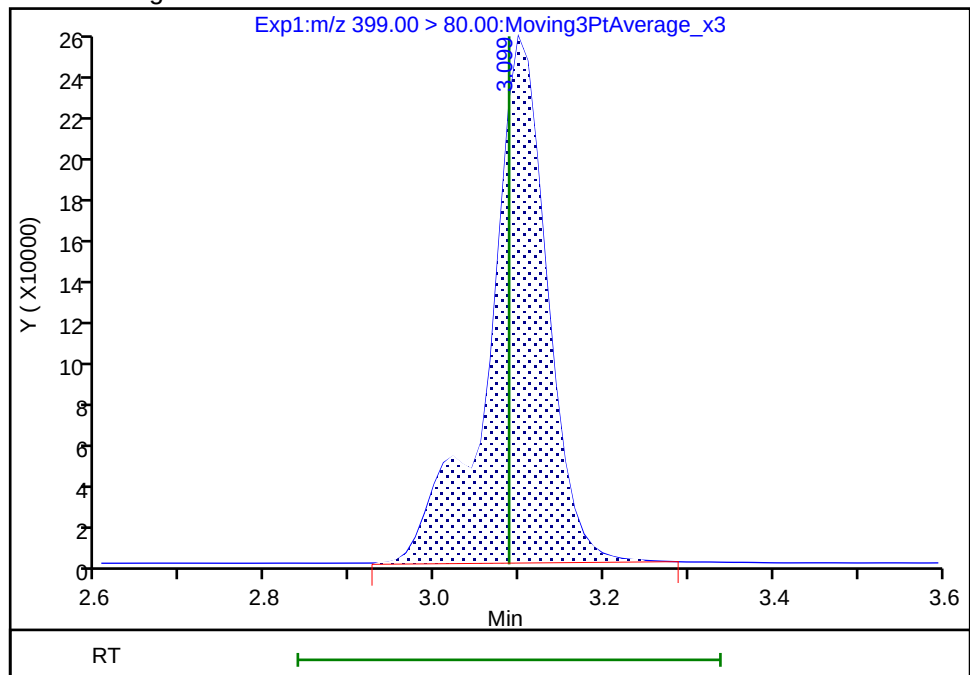
RT: 3.10
Area: 1221225
Amount: 0.900557
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1216310
Amount: 0.896933
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:21:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

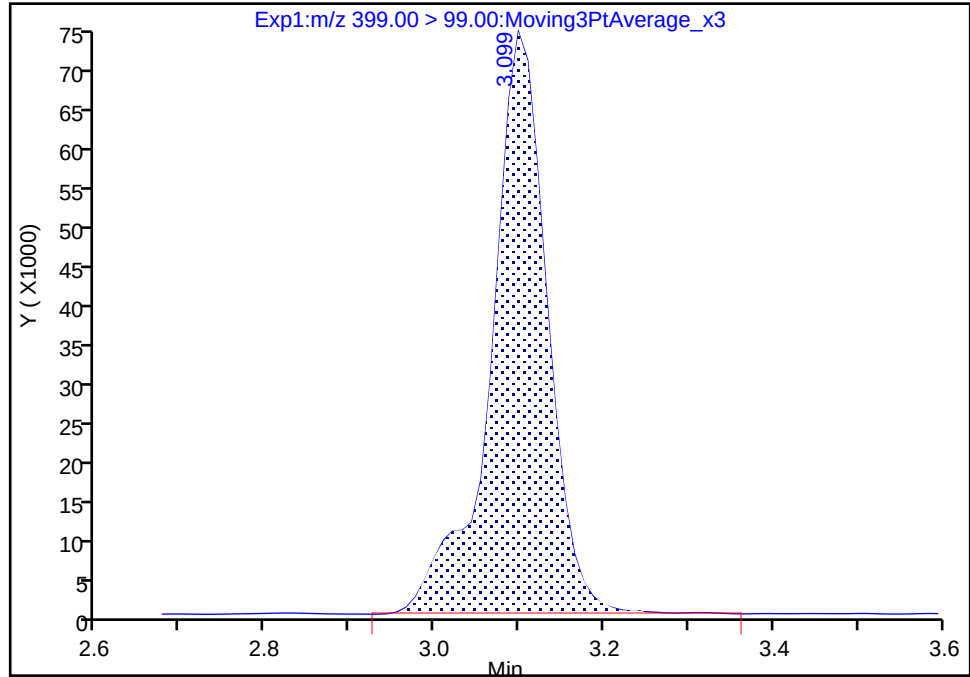
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

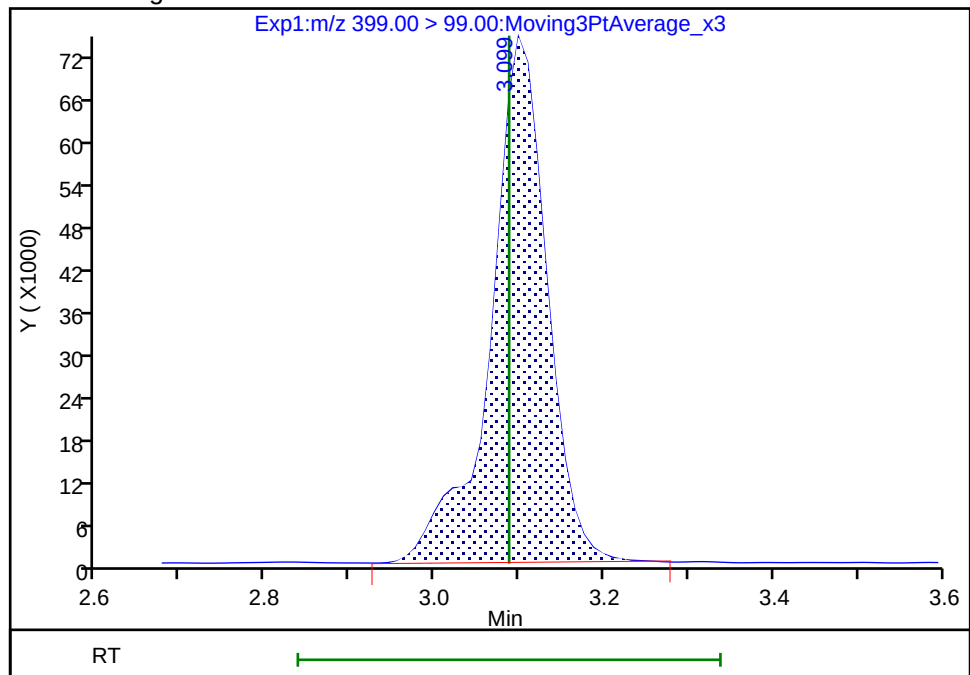
RT: 3.10
Area: 348280
Amount: 0.900557
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 346522
Amount: 0.896933
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:21:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

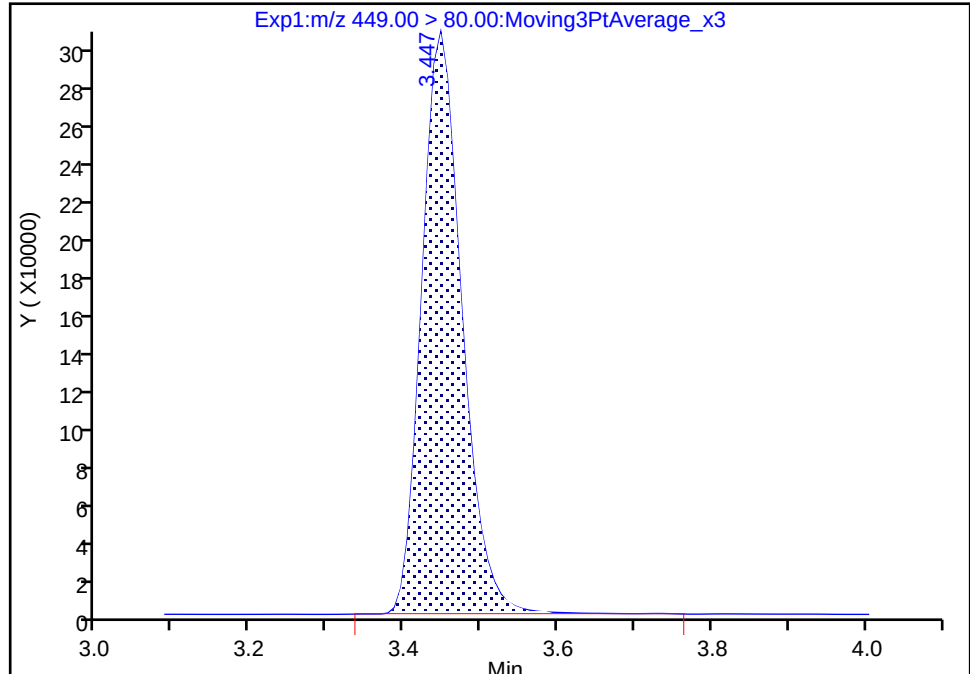
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

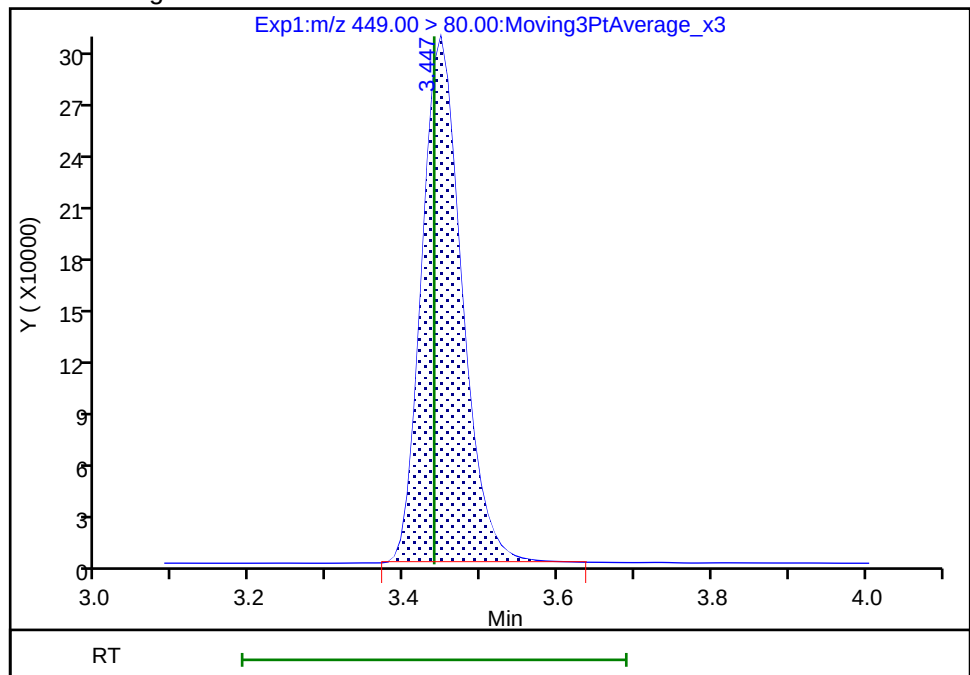
RT: 3.45
Area: 1118059
Amount: 0.955165
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1111428
Amount: 0.949501
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:22:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

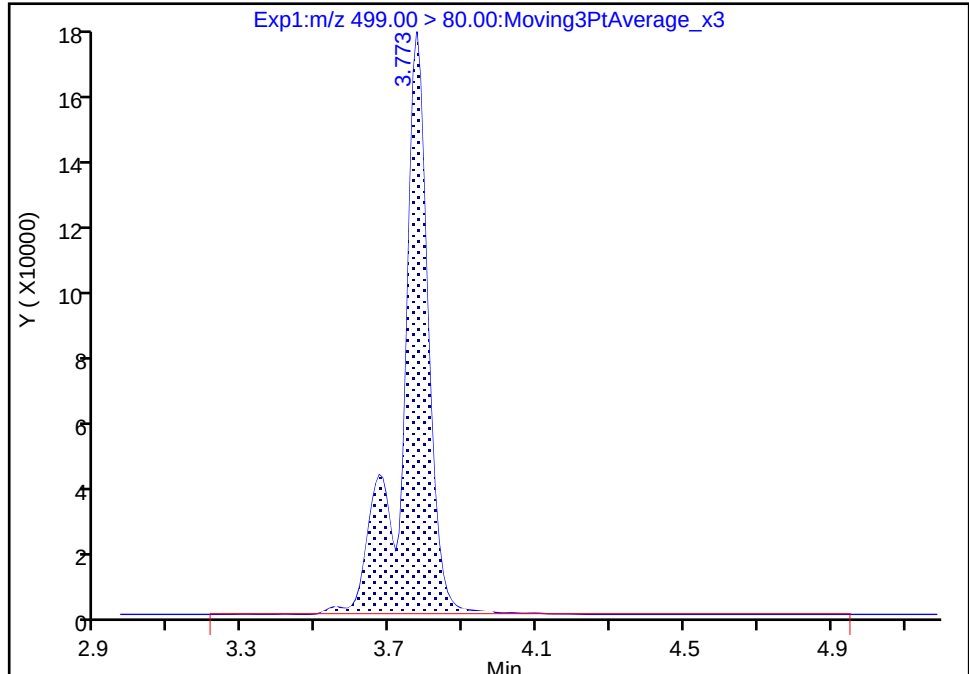
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

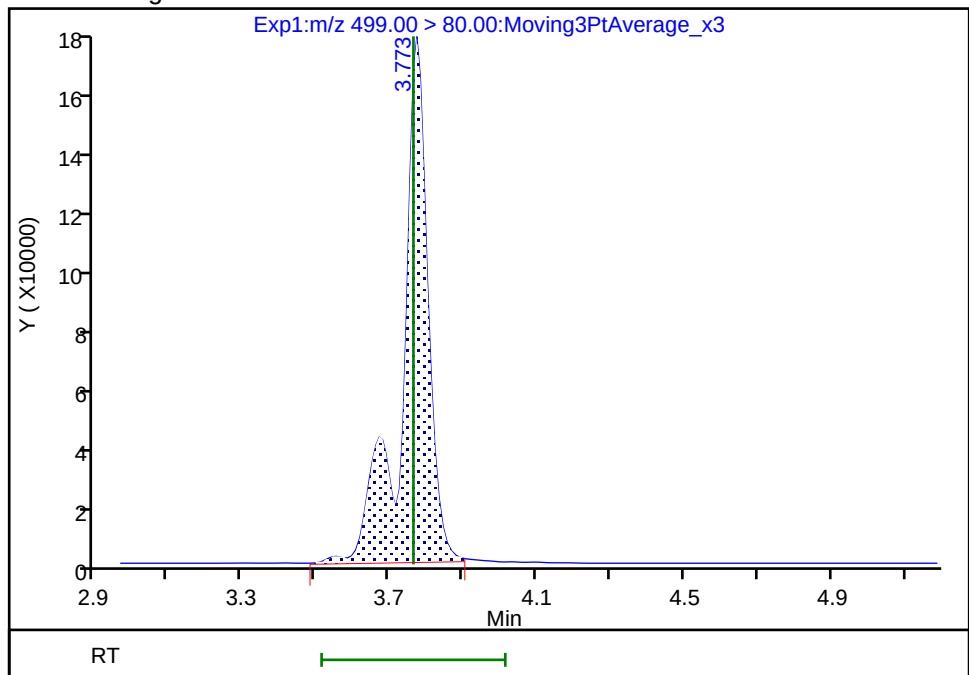
RT: 3.77
Area: 893975
Amount: 0.877132
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 879239
Amount: 0.862673
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:23:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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

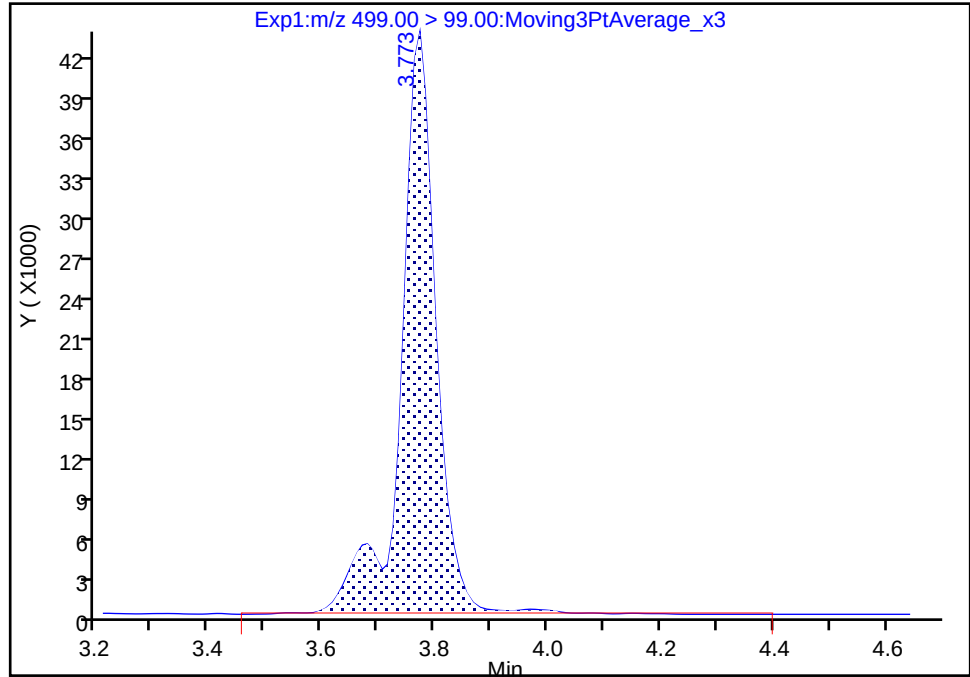
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

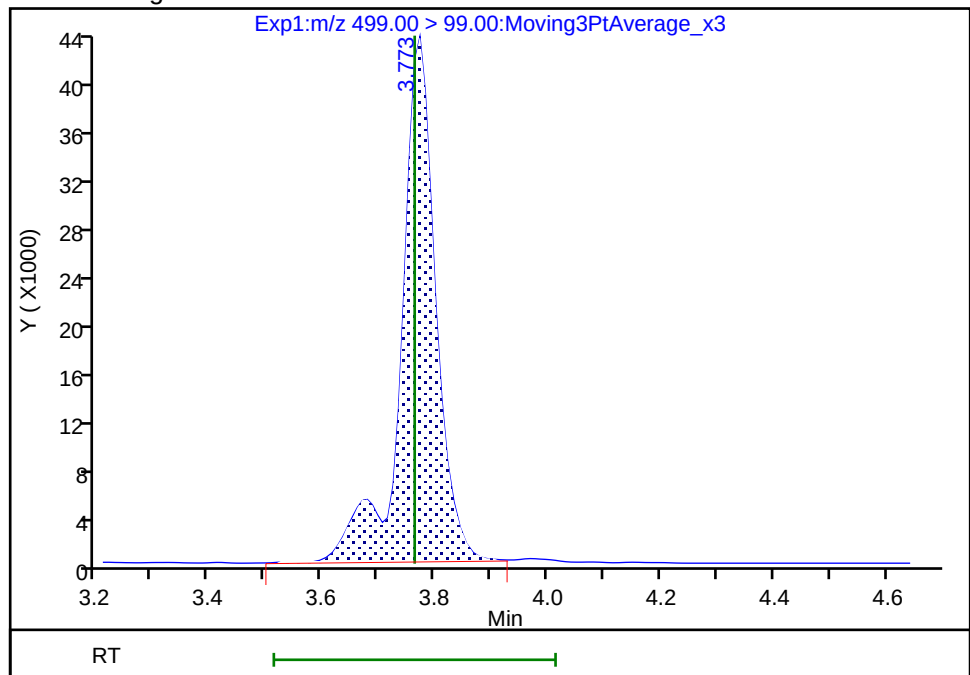
RT: 3.77
Area: 190409
Amount: 0.877132
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 184179
Amount: 0.862673
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:23:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

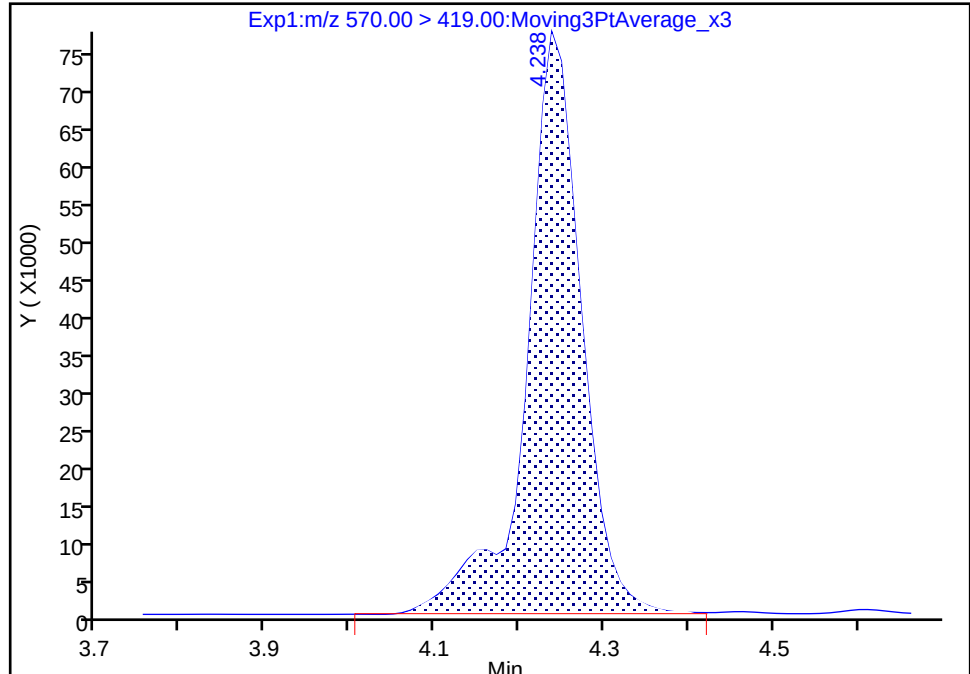
Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

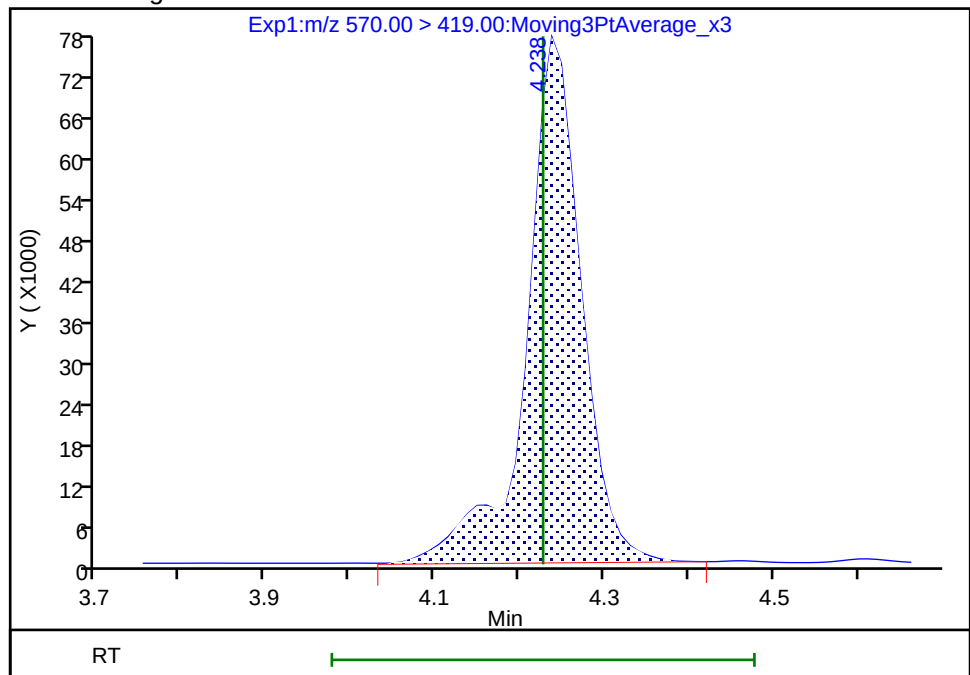
RT: 4.24
Area: 351607
Amount: 1.023953
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 349473
Amount: 1.017668
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

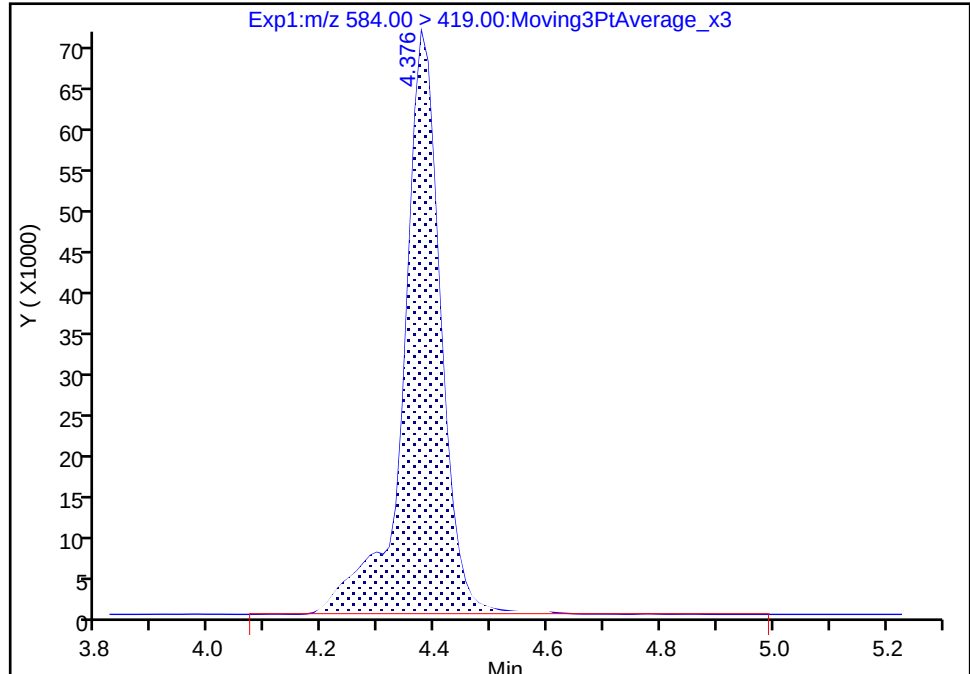
Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

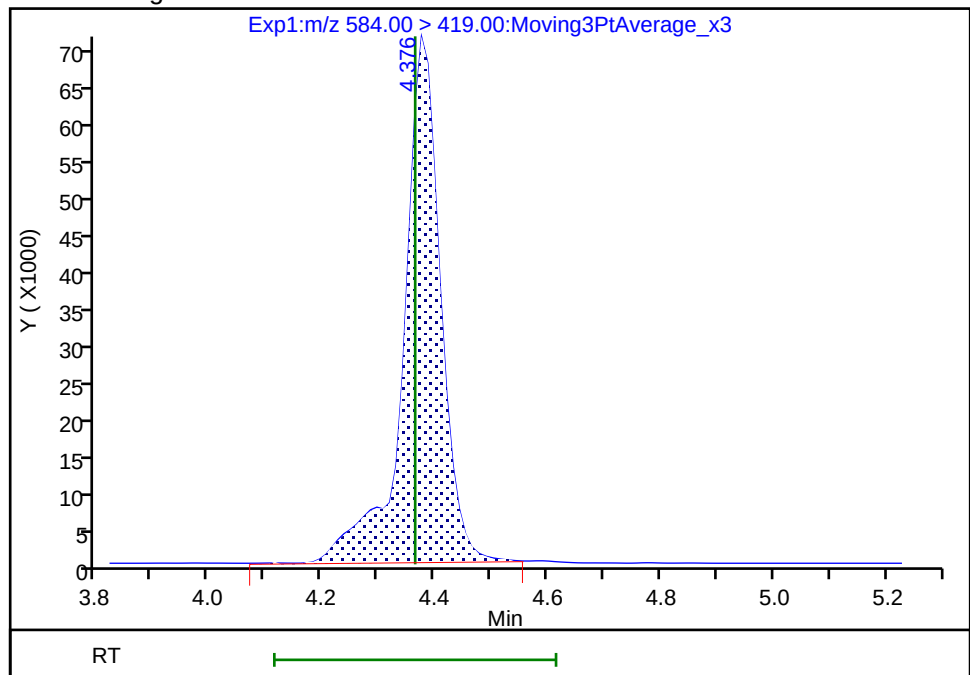
RT: 4.38
Area: 334555
Amount: 0.965714
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 332171
Amount: 0.958832
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

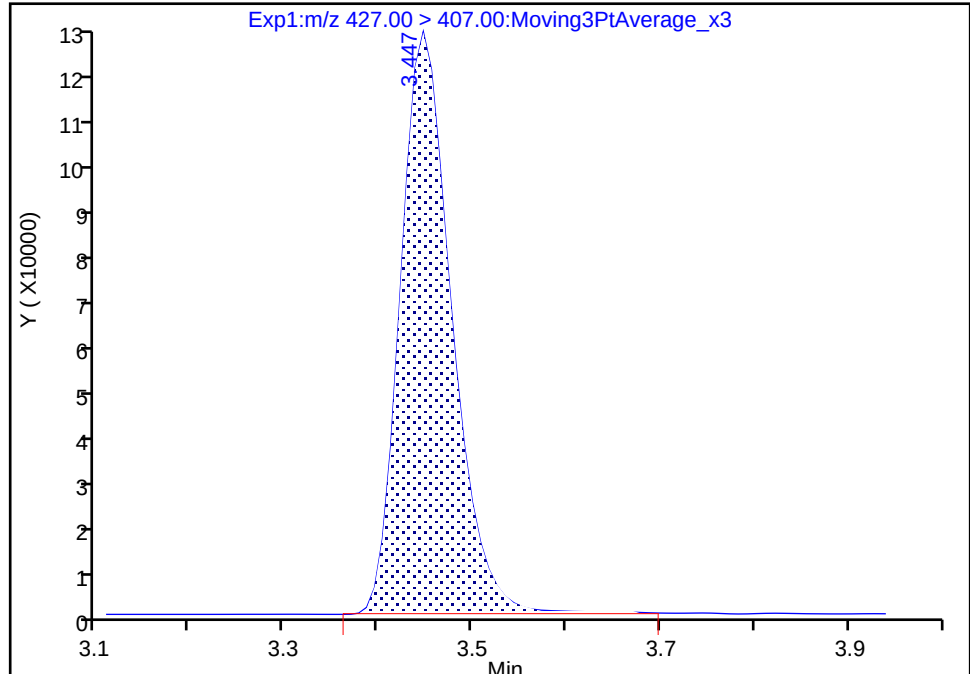
Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

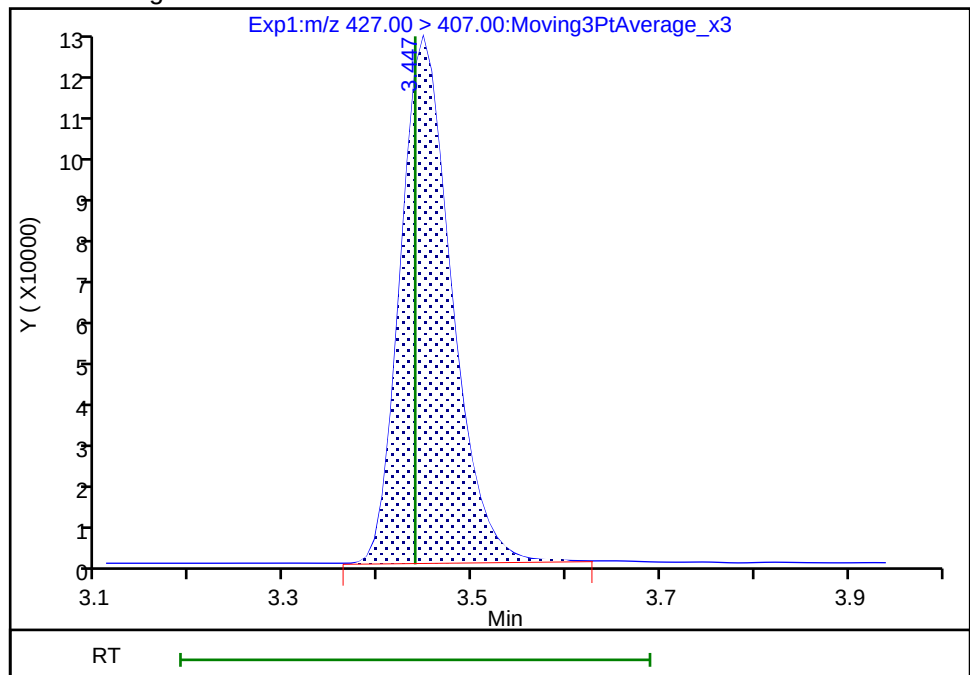
RT: 3.45
Area: 459022
Amount: 1.020194
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 458126
Amount: 1.018180
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:22:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

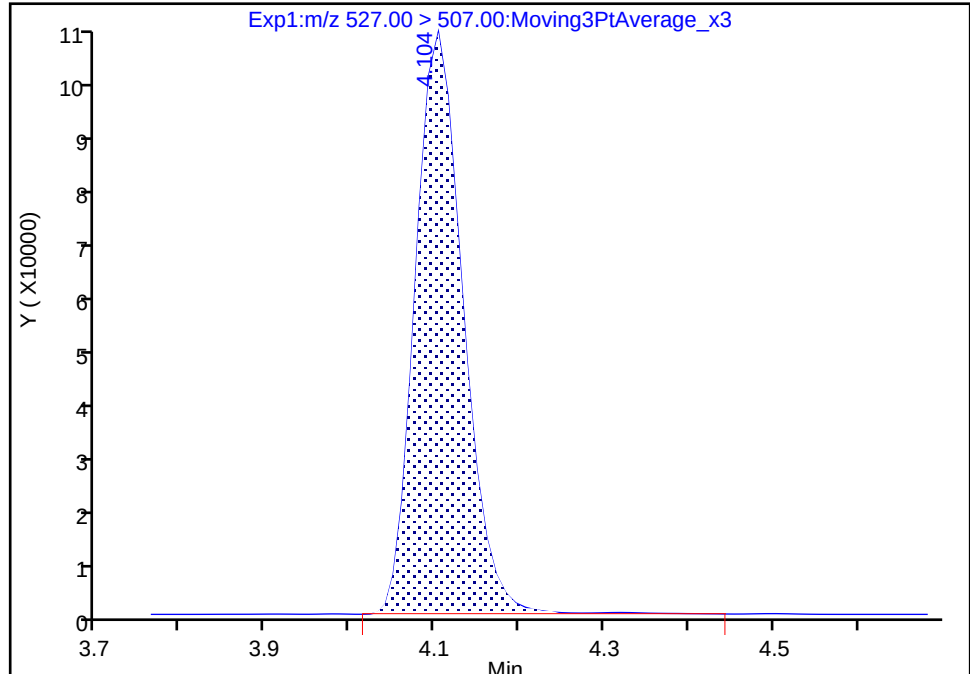
Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

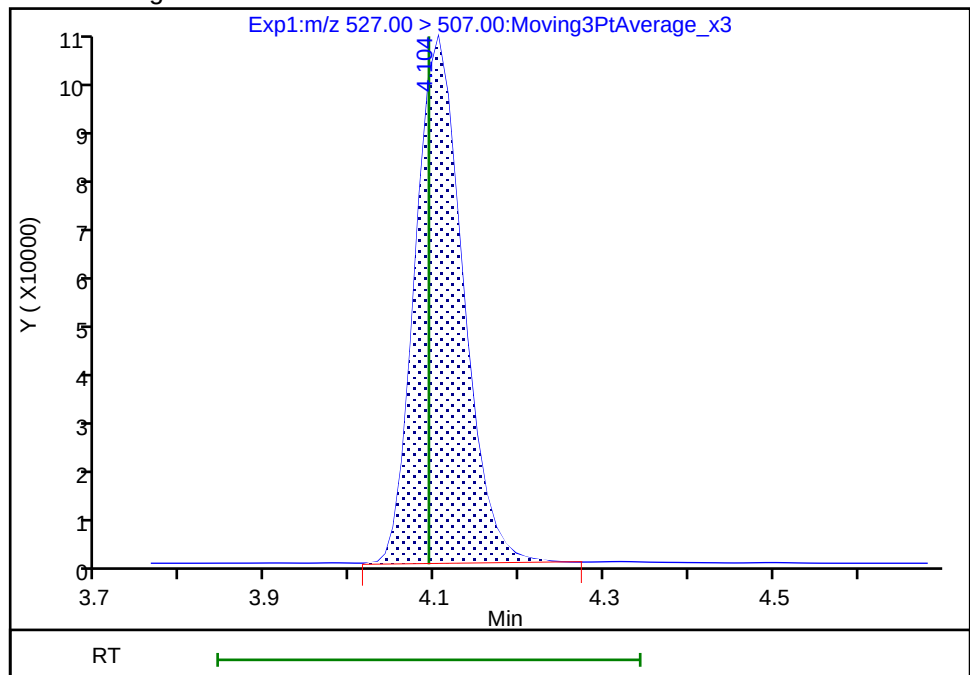
RT: 4.10
Area: 409825
Amount: 0.999278
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 406888
Amount: 0.992117
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:24:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

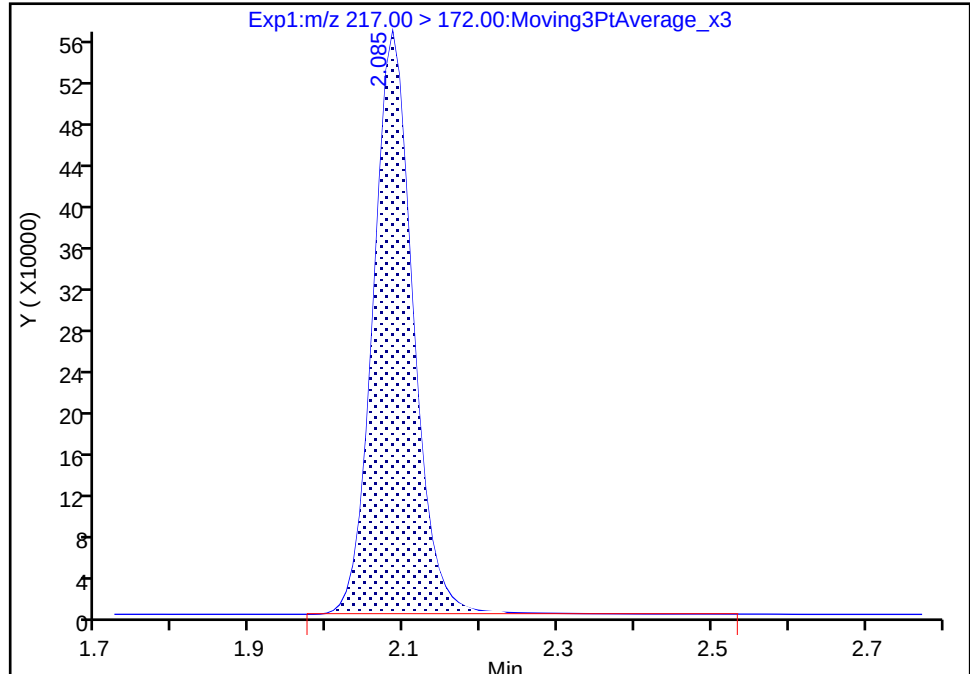
Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

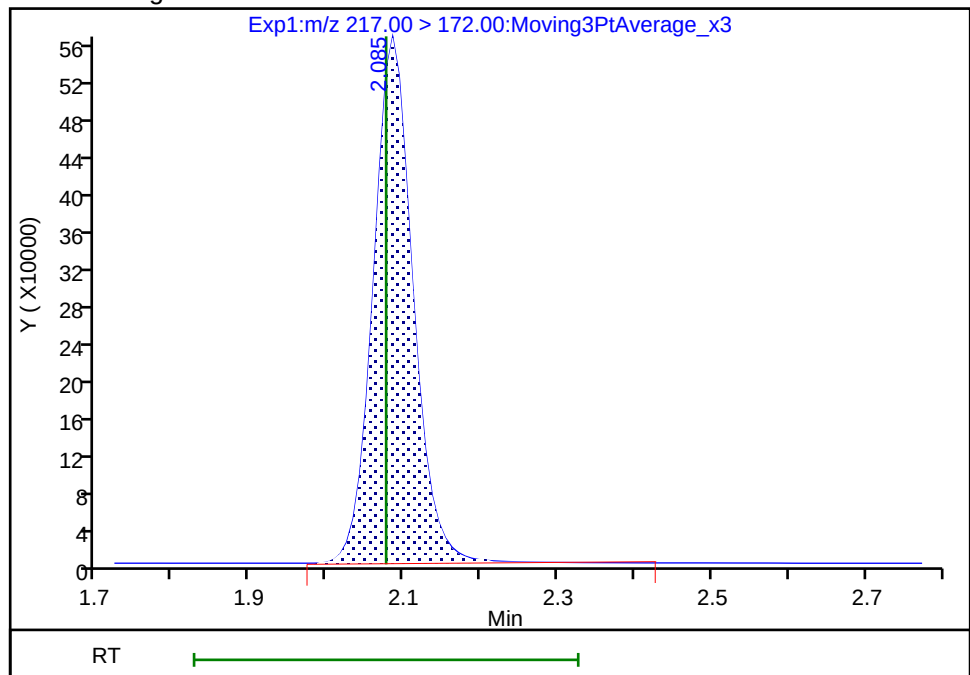
RT: 2.08
Area: 2038246
Amount: 0.924900
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2035777
Amount: 0.923780
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:20:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A07.d

Injection Date: 16-Dec-2022 12:34:11

Instrument ID: LC812

Lims ID: LCS 200-186742/2-A

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)

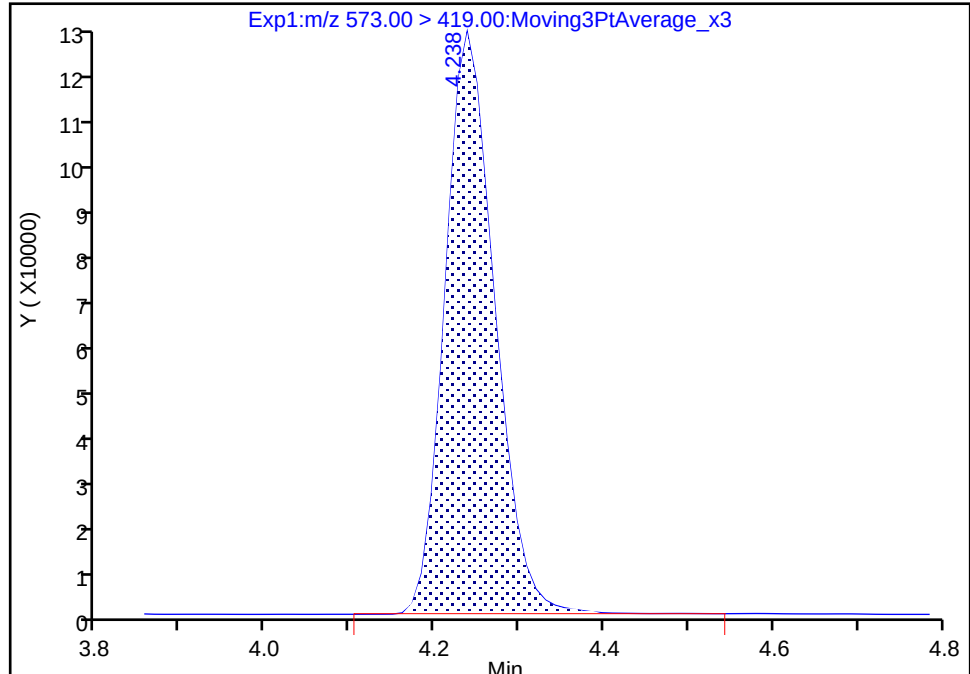
Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

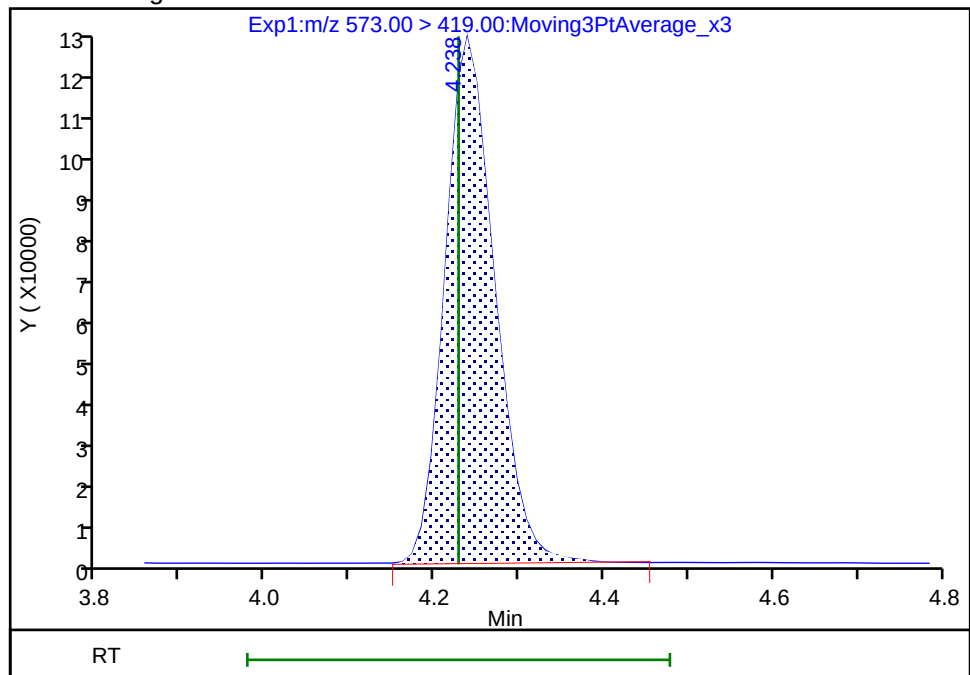
RT: 4.24
Area: 494266
Amount: 1.205525
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 493358
Amount: 1.203310
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 09:20:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 480-204551-A-5-B MS

Matrix: Solid Lab File ID: PA221216A15.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.15(g) Date Analyzed: 12/16/2022 13:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 5.7 % Solids: 94.3 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.101		0.51	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.114		0.21	0.057
307-24-4	Perfluorohexanoic acid (PFHxA)	1.953		0.21	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.967		0.21	0.040
335-67-1	Perfluorooctanoic acid (PFOA)	2.164		0.21	0.060
375-95-1	Perfluorononanoic acid (PFNA)	2.070		0.21	0.035
335-76-2	Perfluorodecanoic acid (PFDA)	2.144		0.21	0.029
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.885		0.21	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	1.991		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.946		0.21	0.026
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.005		0.21	0.027
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.753		0.21	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.914		0.21	0.042
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.996		0.21	0.024
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.960		0.21	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.980		0.21	0.020
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.994		0.21	0.035
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.083		2.06	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.938	J	2.06	0.085
27619-97-2	6:2 FTS	2.105		2.06	0.059
39108-34-4	8:2 FTS	2.078		2.06	0.038

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>460-270642-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>480-204551-A-5-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>PA221216A15.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: _____
Extraction Method: <u>SHAKE</u>	Date Extracted: <u>12/15/2022 09:16</u>
Sample wt/vol: <u>5.15(g)</u>	Date Analyzed: <u>12/16/2022 13:39</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20(uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: <u>5.7</u> % Solids: <u>94.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>186802</u>	Units: <u>ug/Kg</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	85		50-150
STL01892	13C4 PFHpA	94		50-150
STL00990	13C4 PFOA	92		50-150
STL00991	13C4 PFOS	84		50-150
STL00995	13C5 PFNA	102		50-150
STL00992	13C4 PFBA	63		50-150
STL00993	13C2 PFHxA	93		50-150
STL00996	13C2 PFDA	108		50-150
STL00997	13C2 PFUnA	115		50-150
STL00998	13C2 PFDoA	112		50-150
STL01056	13C8 FOSA	81		50-150
STL01893	13C5 PFPeA	85		50-150
STL02116	13C2 PFTeDA	104		50-150
STL02118	d3-NMeFOSAA	127		50-150
STL02117	d5-NEtFOSAA	144		50-150
STL02279	M2-6:2 FTS	114		50-150
STL02280	M2-8:2 FTS	162	*	50-150
STL02337	13C3 PFBS	86		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
 Lims ID: 480-204551-A-5-B MS
 Client ID: BR-MW-05_20221207_0-0.2-N_MS
 Sample Type: MS
 Inject. Date: 16-Dec-2022 13:39:32 ALS Bottle#: 12 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-204551-A-5-B MS
 Misc. Info.: 200-0053717-015 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 10:20:22

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	2.085	2.076	0.009	0.603	1826542	0.7820		62.6	6110	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	1537620	1.02		102	170	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.690	1882489	1.06		84.7	2053	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1684881	1.03		103	29.6	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.414	2.400	0.014	0.698	1924811	1.00		85.7	166910	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.414	2.400	0.014	1.000	1613309	0.8517	Target=2.09	96.3	392	
298.90 > 99.00	2.414	2.400	0.014	1.000	773593		2.09(1.04-3.13)		93.5	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.701	2.689	0.012	1.000	524105	0.9391		101	847	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.781	211488	1.24		106	79.7	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.792	2170089	1.16		93.1	2413	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	1794169	0.9485	Target=14.25	94.8	57.2	M
313.00 > 119.00	2.738	2.725	0.013	1.000	132775		13.51(7.12-21.37)		147	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.738	2.737	0.001	0.883	1534224	0.9606	Target=3.04	102	349	
349.00 > 99.00	2.738	2.737	0.001	0.883	511348		3.00(1.52-4.56)		309	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	318974	0.9729		97.3	1992	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.820	388107	1.18		94.4	3077	
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.897	1414271	1.00		84.9	2356	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.099	3.088	0.011	1.000	1254534	0.9294	Target=3.66	102	271	M
399.00 > 99.00	3.099	3.088	0.011	1.000	370955		3.38(1.83-5.49)		169	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.897	2246036	1.17		93.7	2981	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	1868702	0.9552	Target=3.97	95.5	66.6	M
363.00 > 169.00	3.099	3.099	0.0	1.000	476633		3.92(1.98-5.95)		733	
77 DONA										
377.00 > 251.00	3.143	3.132	0.011	0.833	4420601	1.00	Target=3.16	106	1488	M
377.00 > 85.00	3.143	3.132	0.011	0.833	1447744		3.05(1.58-4.73)		1125	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.448	3.439	0.009	0.997	319154	1.35		114	113	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.448	3.439	0.009	1.000	587130	1.02		108	1026	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.439	3.439	0.0	0.911	1087513	0.9696	Target=5.14	102	323	M
449.00 > 99.00	3.439	3.439	0.0	0.911	218647		4.97(2.57-7.72)		253	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	0.997	2476827	1.15		91.9	3169	
* 62 13C2 PFOA										
415.00 > 370.00	3.457	3.448	0.009		2602921	1.25			3682	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.457	3.448	0.009	1.003	2226533	1.05	Target=2.79	105	70.1	M
413.00 > 169.00	3.457	3.448	0.009	1.003	762585		2.92(1.40-4.19)		751	M
D 18 13C4 PFOS										
503.00 > 80.00	3.774	3.764	0.010	1.092	959601	1.00		84.1	289	M
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.774	3.764	0.010	1.000	929504	0.9518	Target=5.11	103	221	M
499.00 > 99.00	3.774	3.764	0.010	1.000	196254		4.74(2.55-7.66)		177	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.793	3.783	0.010	1.003	2227941	1.01	Target=8.55	101	115	M
463.00 > 169.00	3.783	3.783	0.0	1.000	264455		8.42(4.28-12.83)		785	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.094	2670114	1.27		102	4129	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.941	3.928	0.013	1.044	2142802	0.9560		103	2147	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.076	715139	0.9702	Target=2.53	101	263	M
549.00 > 99.00	4.061	4.050	0.011	1.076	286261		2.50(1.27-3.80)		436	M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.184	2872548	1.35		108	5592	

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	4.093	4.081	0.012	1.000	2595482	1.04	Target=10.26	104	173	
513.00 > 169.00	4.093	4.081	0.012	1.000	238894		10.86(5.13-15.38)		451	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.184	559392	1.94		162	173	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.093	0.011	1.003	762368	1.01		105	1592	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1439210	0.9686		96.9	2092	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.201	1777825	1.02		81.3	2835	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.240	4.228	0.012	1.226	687688	1.58		127	654	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.240	4.228	0.012	1.000	484312	1.01		101	730	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.331	0.001	1.148	559576	0.9615	Target=2.51	99.7	284	M
599.00 > 99.00	4.332	4.331	0.001	1.148	214622		2.61(1.25-3.76)		546	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.353	0.002	1.260	2806996	1.44		115	4494	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.353	0.002	1.000	2071627	0.9154	Target=9.88	91.5	188	
563.00 > 169.00	4.355	4.353	0.002	1.000	213752		9.69(4.94-14.82)		793	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.377	4.365	0.012	1.003	520468	0.9414		94.1	821	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.365	0.001	1.263	771946	1.80		144	1078	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.455	4.454	0.001	1.181	3203636	0.9272		98.4	3805	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.602	4.591	0.011	1.000	2279234	0.9671	Target=7.77	96.7	178	M
613.00 > 169.00	4.602	4.591	0.011	1.000	314669		7.24(3.89-11.66)		964	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.591	0.011	1.331	2780730	1.40		112	4281	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	609816	1.34		139	2860	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.266	231226	0.9390	Target=0.50	97.0	201	M
699.00 > 99.00	4.776	4.776	0.0	1.266	452109		0.51(0.25-0.76)		1639	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.813	4.804	0.009	1.046	2130008	0.9450	Target=5.21	94.5	200	M
663.00 > 169.00	4.813	4.804	0.009	1.046	368804		5.78(2.60-7.81)		890	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	238007	0.9737	Target=0.89	97.4	1039	
713.00 > 219.00	5.012	5.012	0.0	1.000	249802		0.95(0.44-1.33)		1543	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.450	2231752	1.30		104	6331	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.000	1416673	1.04	Target=5.65	104	237	
813.00 > 169.00	5.378	5.367	0.011	1.000	236621		5.99(2.82-8.47)		1243	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.367	0.011	1.556	1826349	0.8578		68.6	4972	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.722	0.009	1.066	274464	0.2281	Target=6.24	22.8	86.7	M
913.00 > 169.00	5.731	5.722	0.009	1.066	39893		6.88(3.12-9.36)		220	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d

Injection Date: 16-Dec-2022 13:39:32

Instrument ID: LC812

Lims ID: 480-204551-A-5-B MS

Client ID: BR-MW-05_20221207_0-0.2-N_MS

Operator ID: lc812tech

ALS Bottle#: 12

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

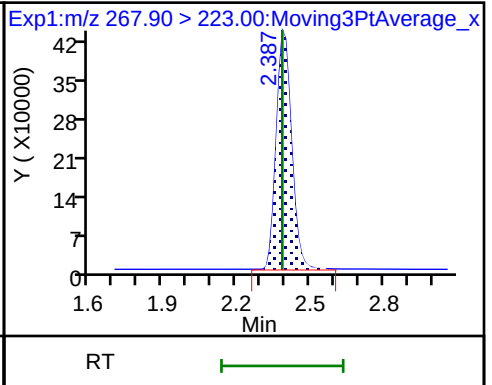
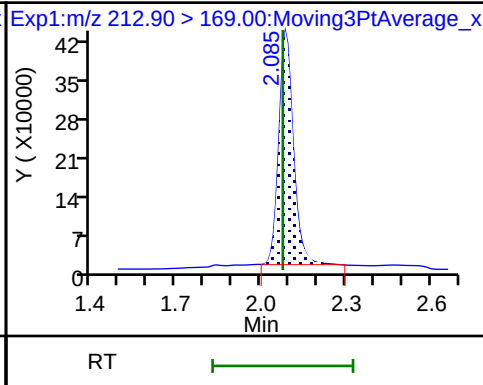
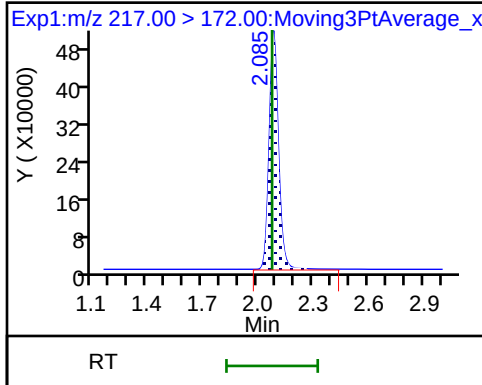
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

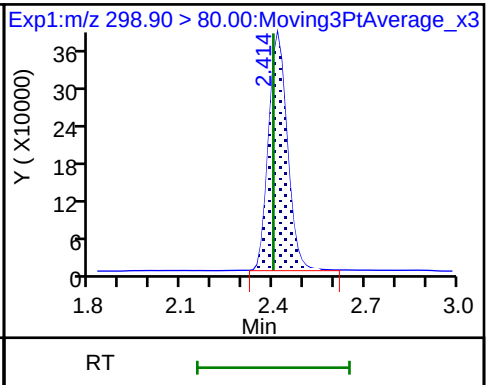
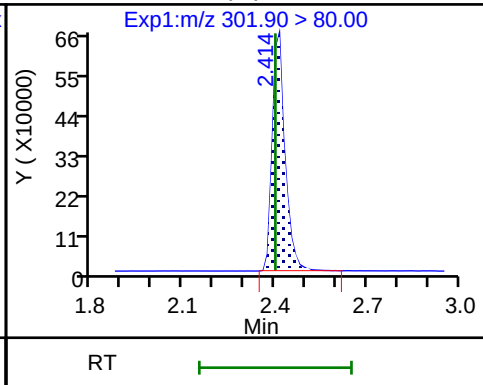
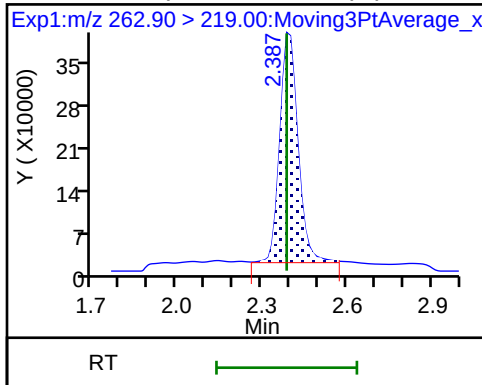
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

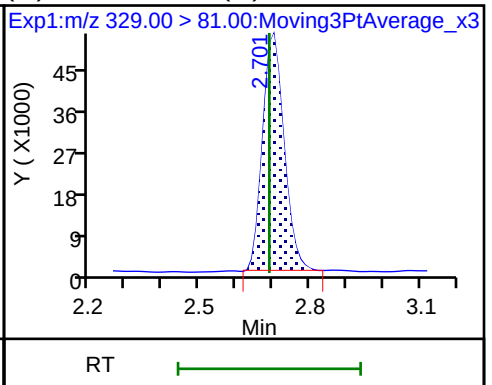
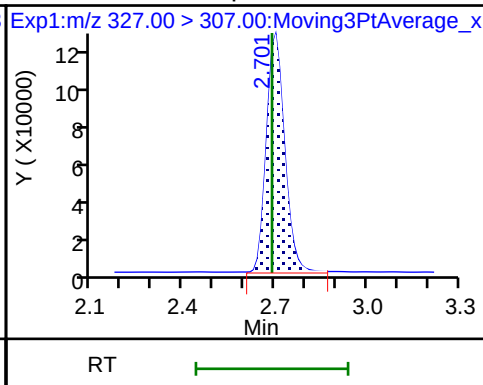
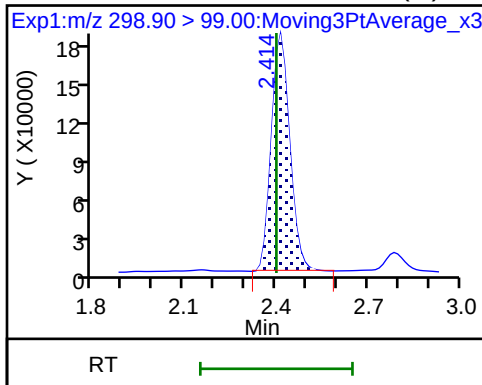
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

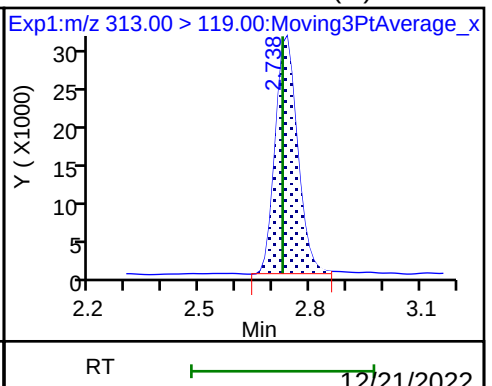
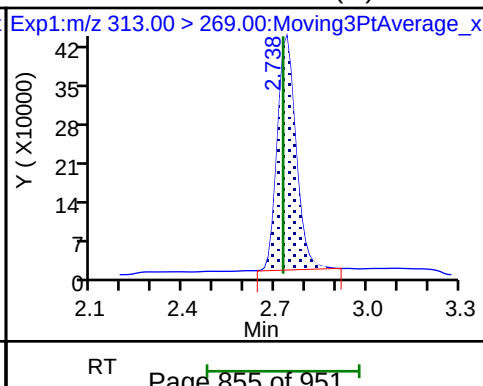
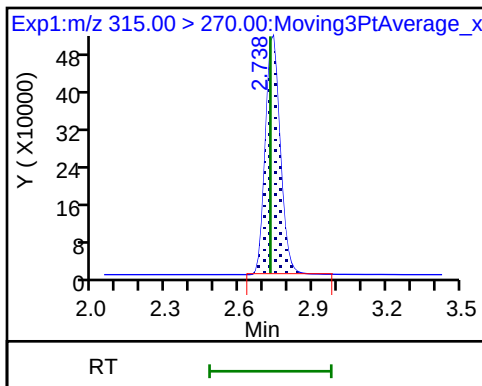
D 50 M2-4:2 FTS (M)

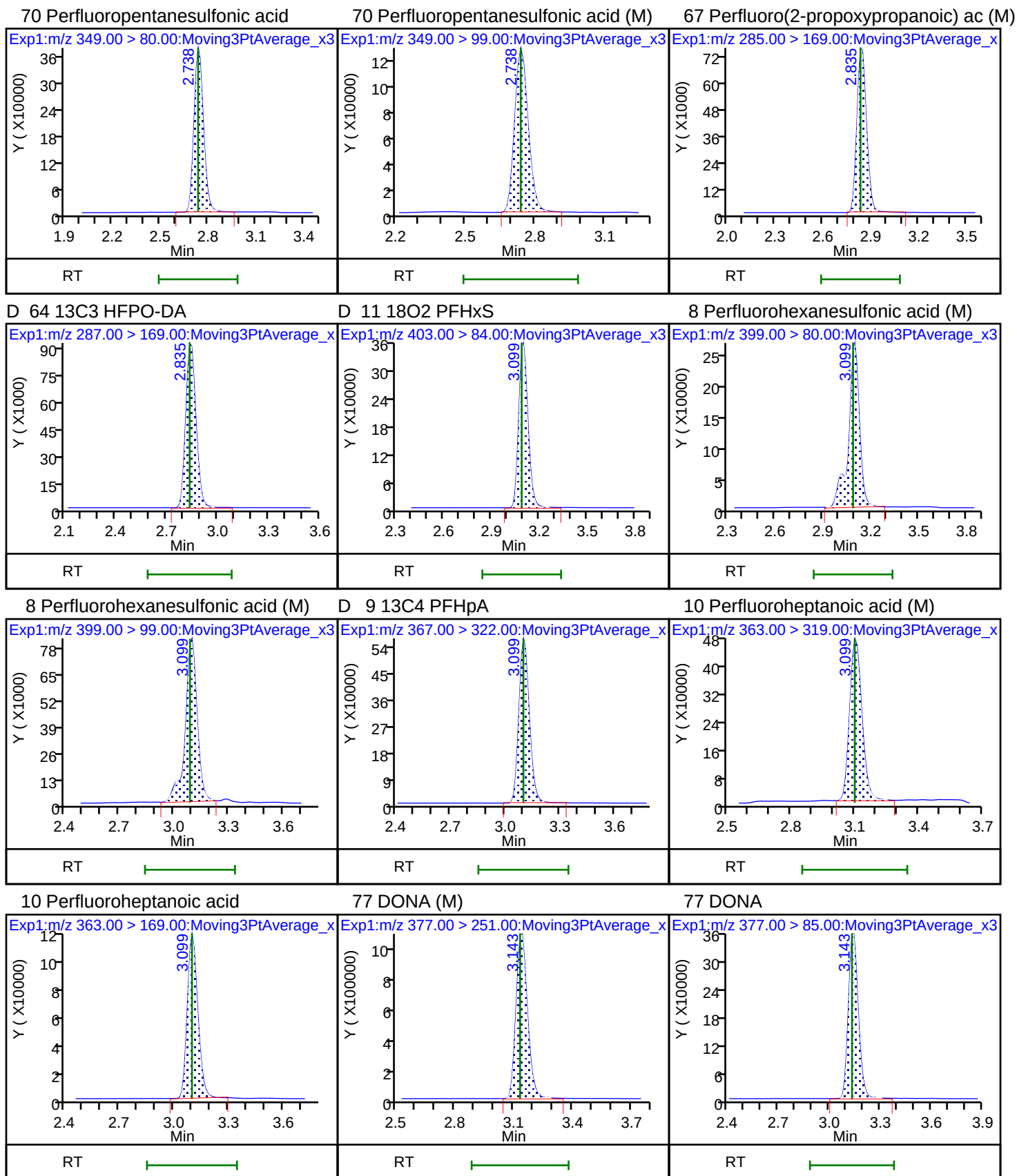


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

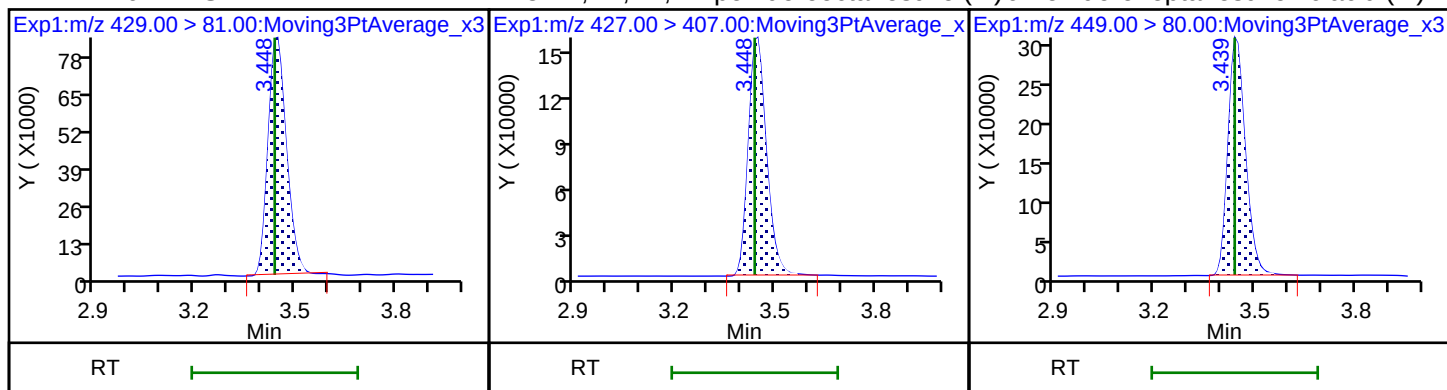
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

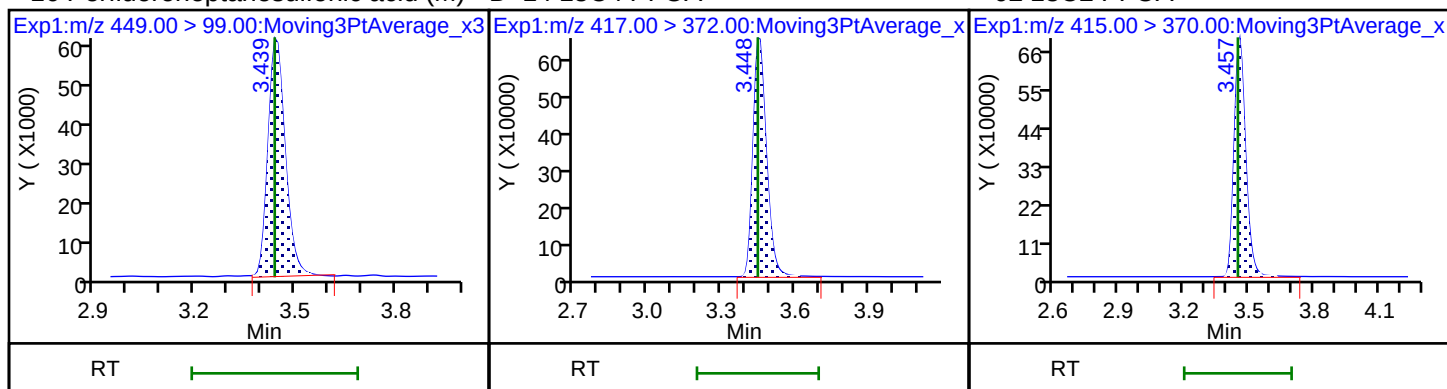
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

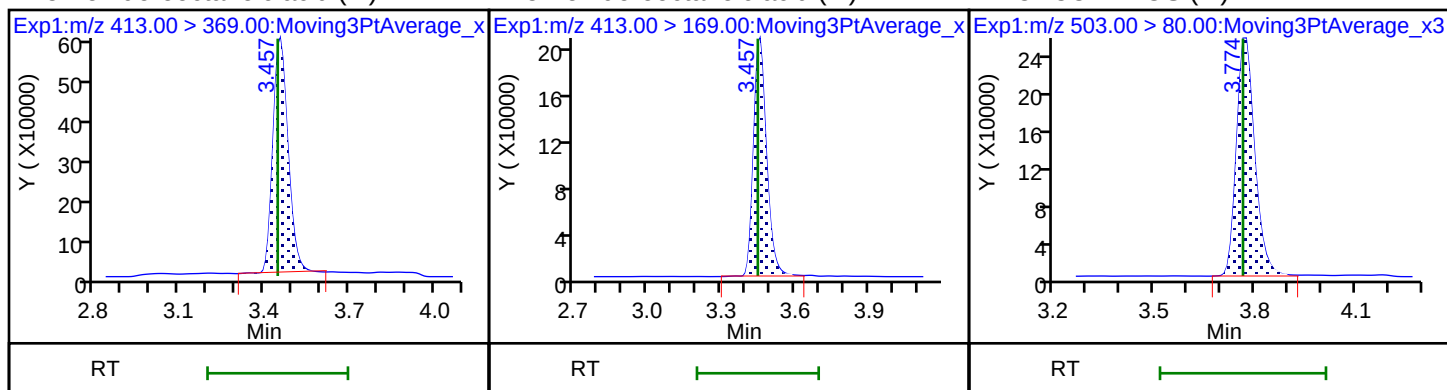
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

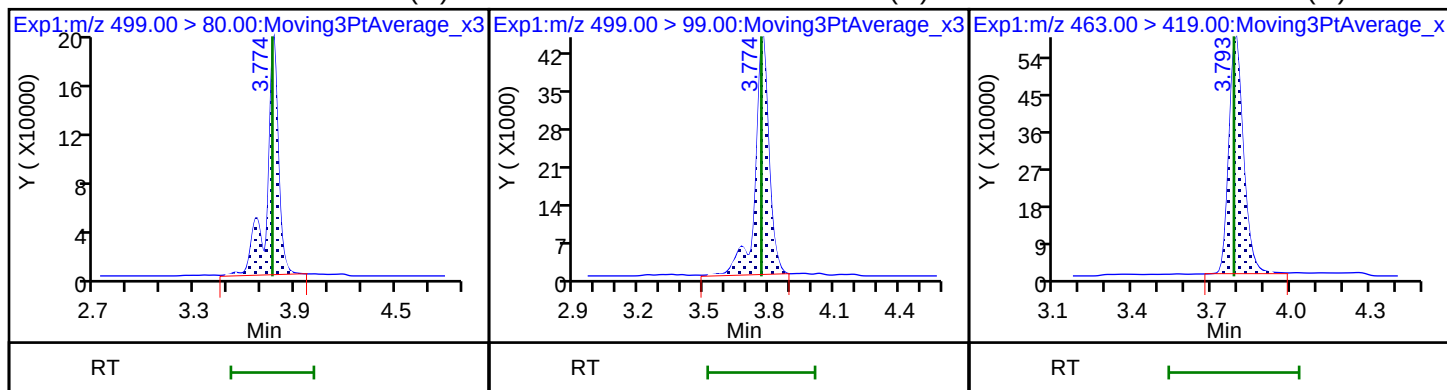
D 18 13C4 PFOS (M)

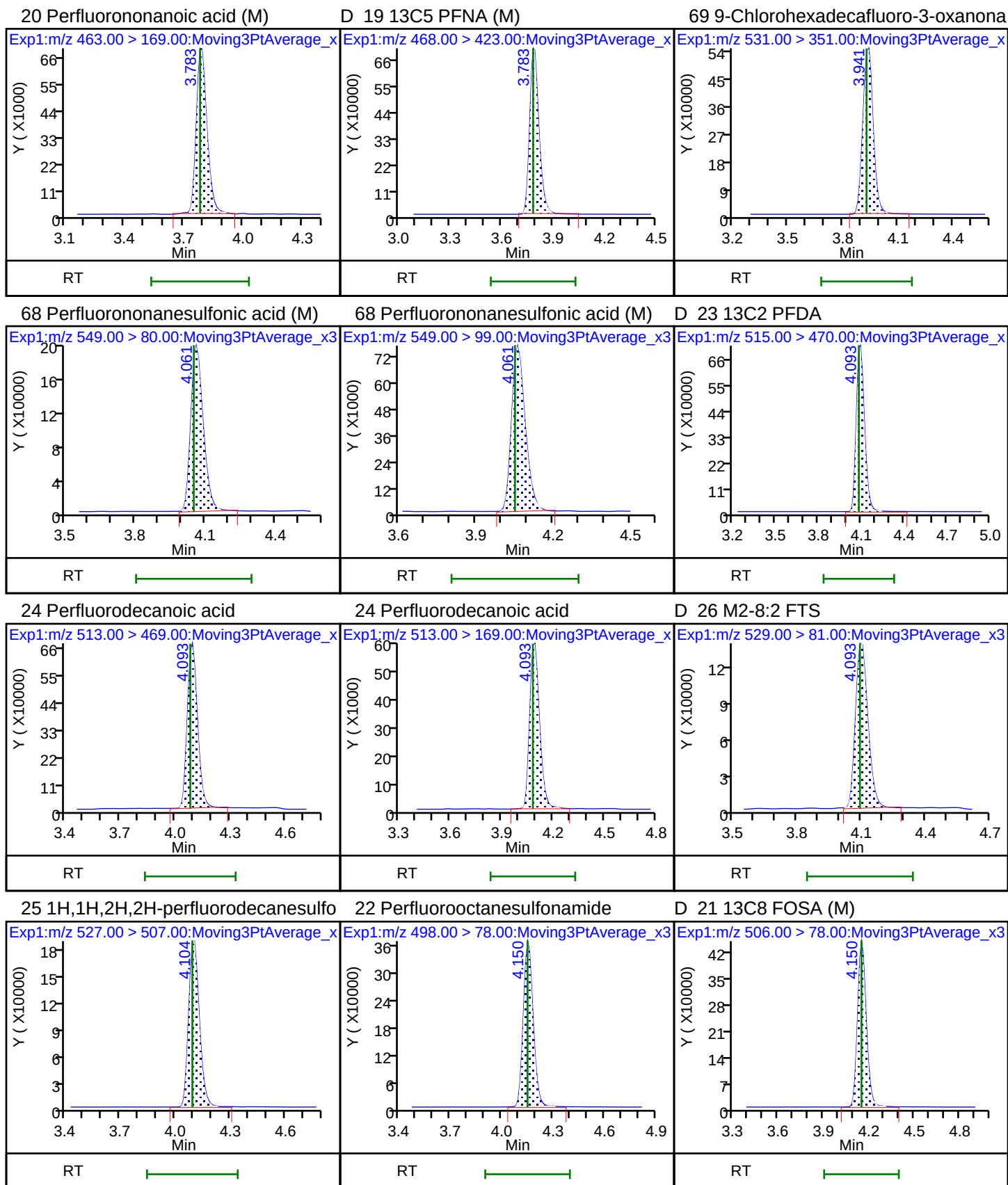


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

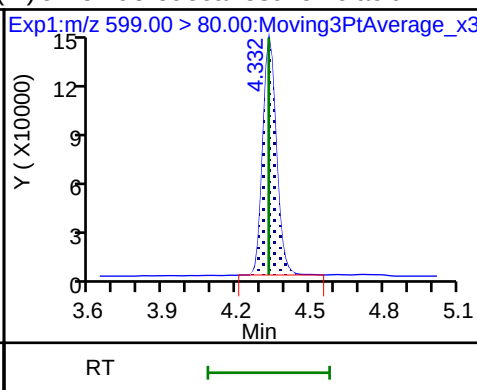
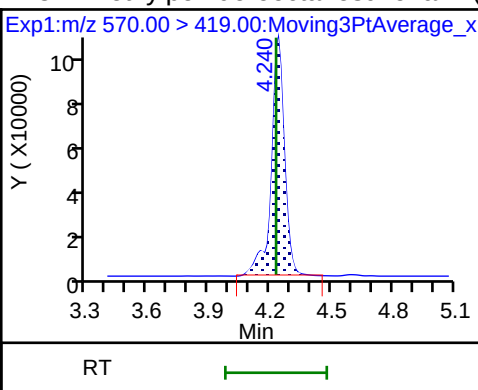
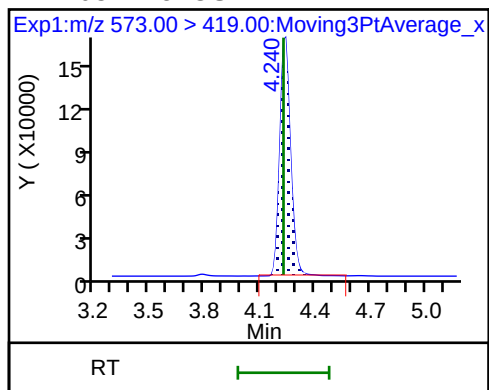




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M)

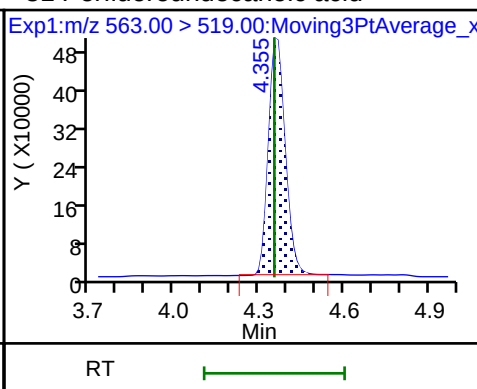
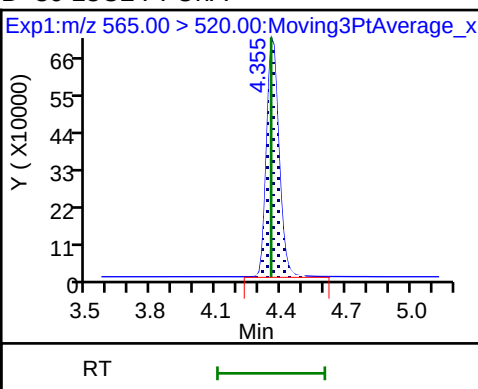
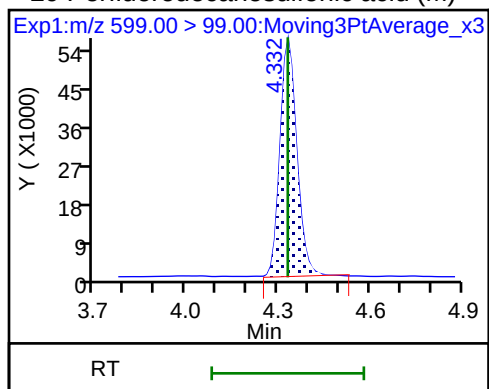
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

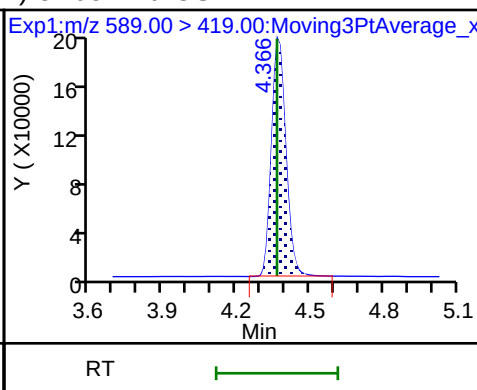
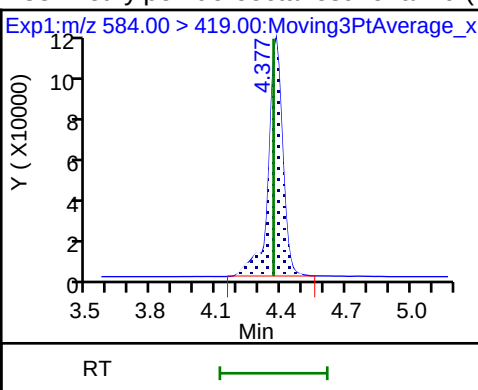
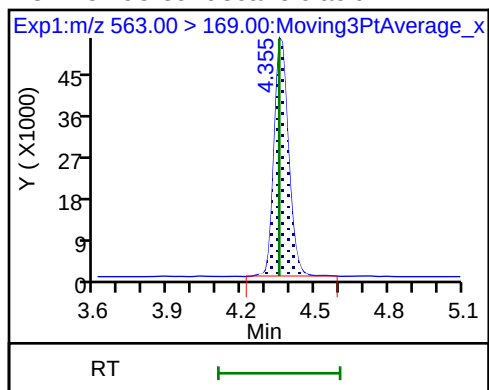
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

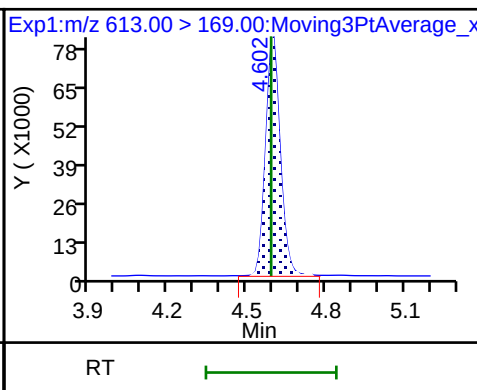
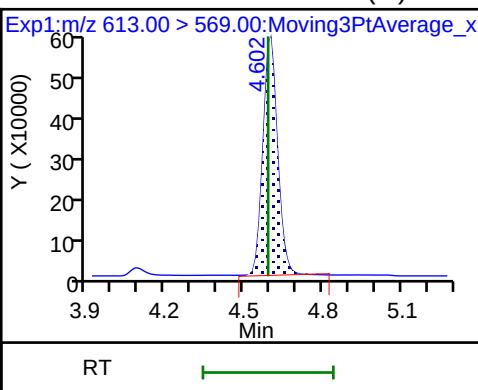
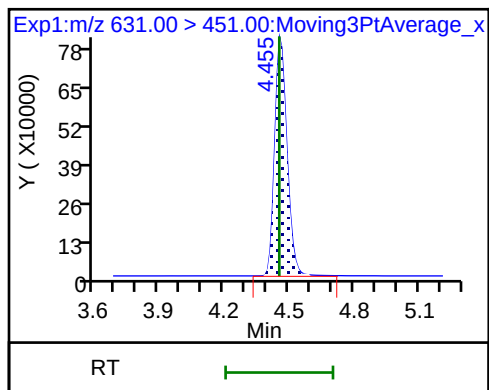
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

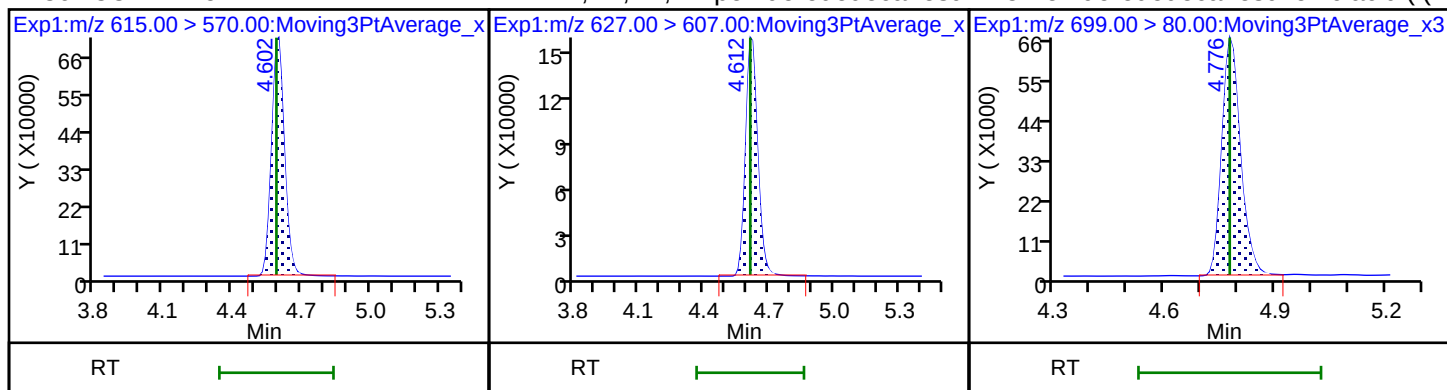
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

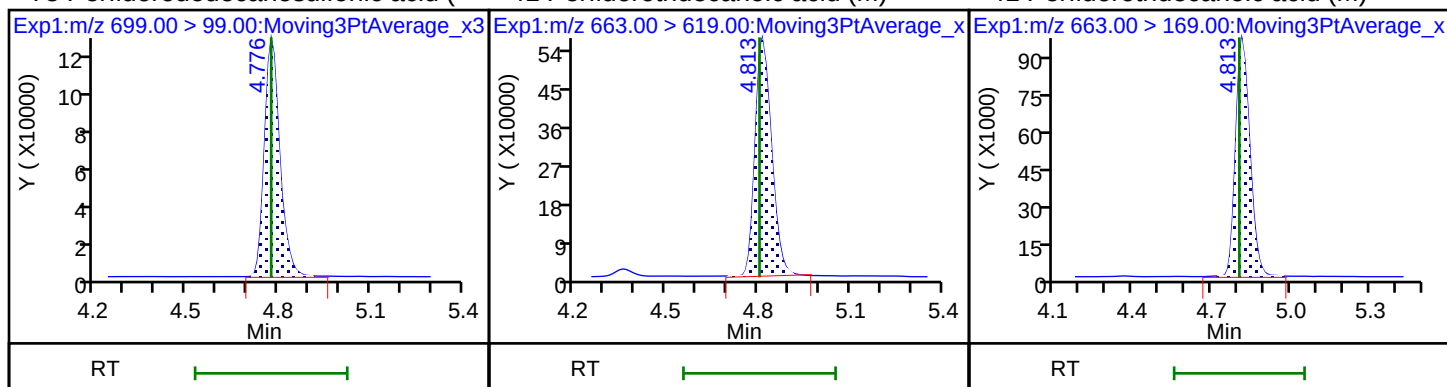
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75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

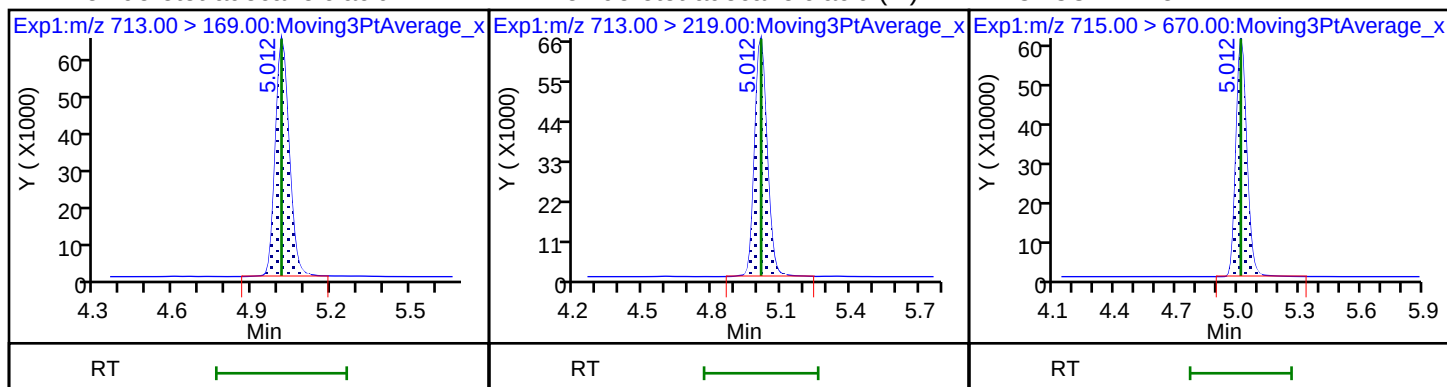
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

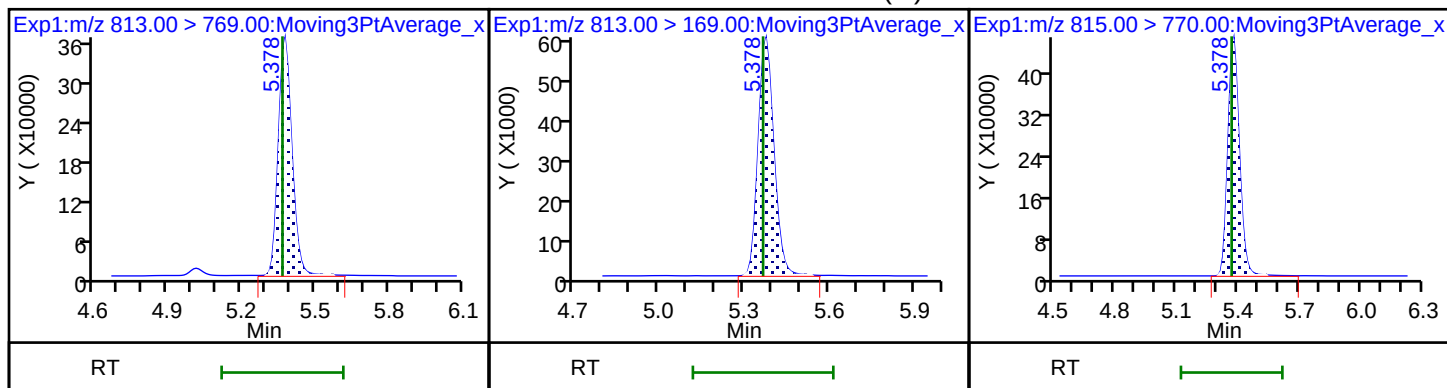
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

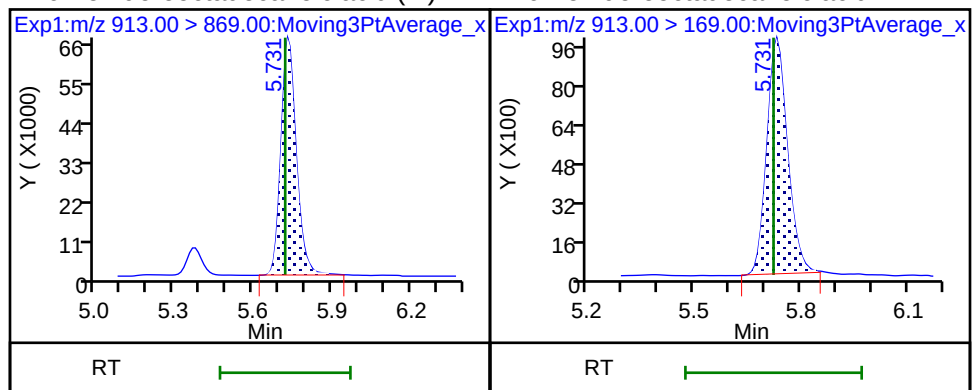
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

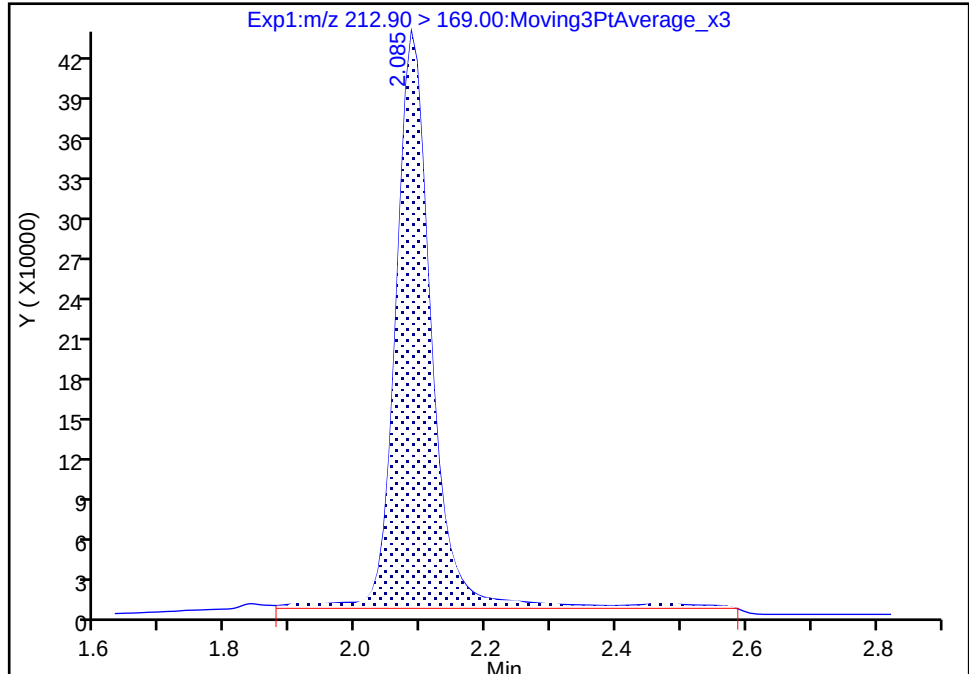
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

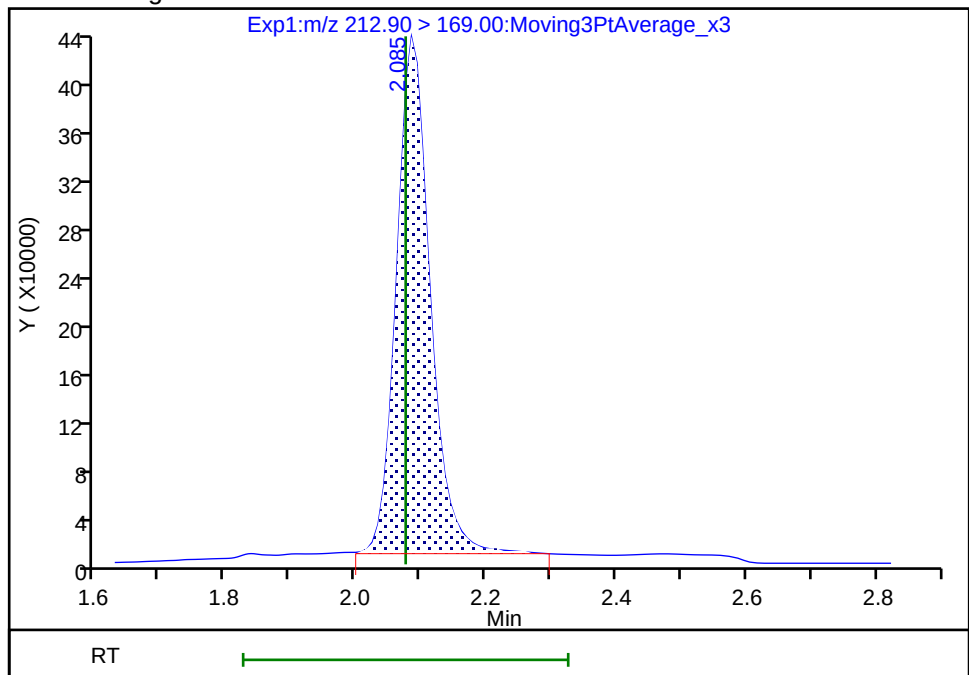
RT: 2.09
Area: 1703836
Amount: 1.130751
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1537620
Amount: 1.020442
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:16:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

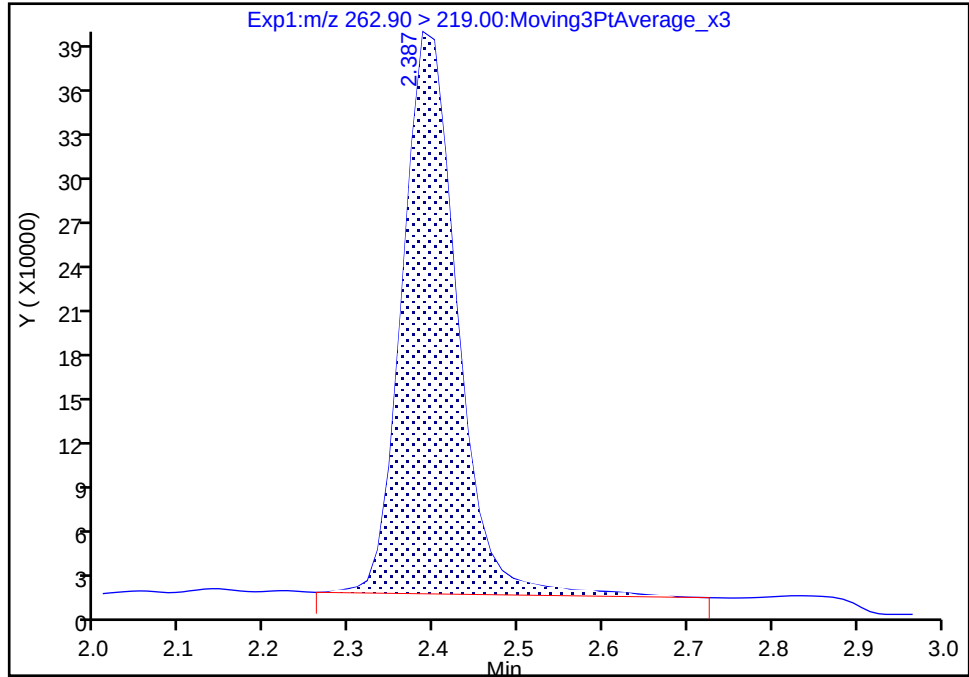
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

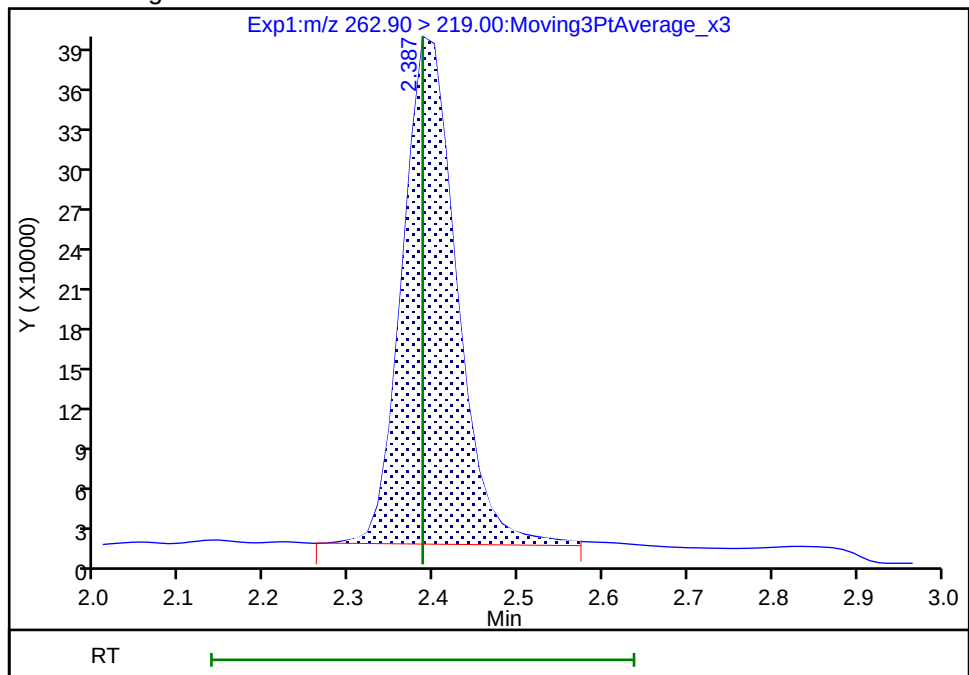
RT: 2.39
Area: 1700095
Amount: 1.035842
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1684881
Amount: 1.026573
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:16:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

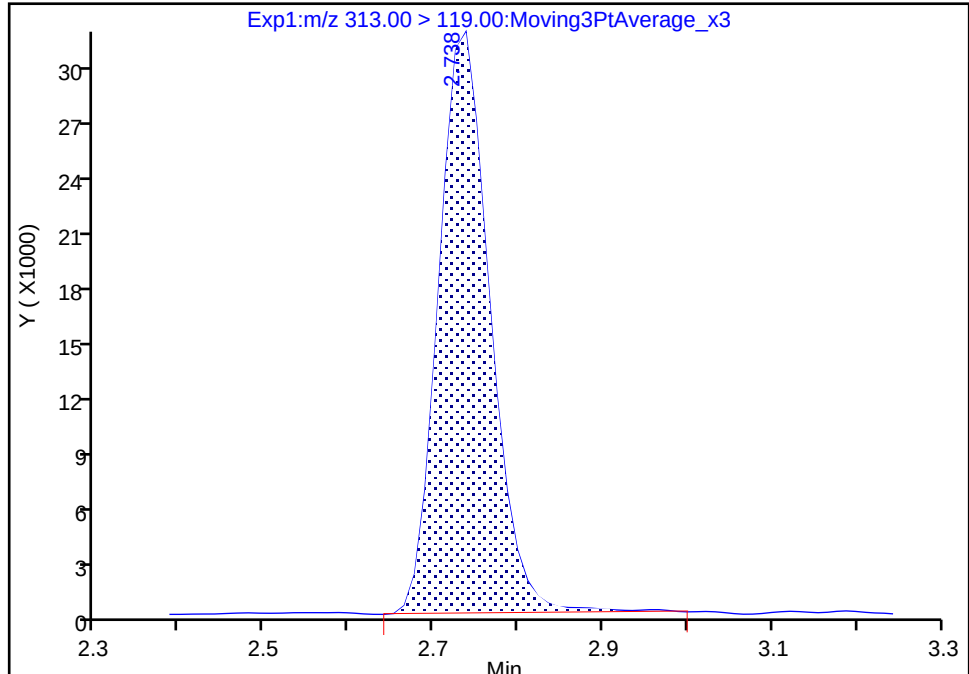
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

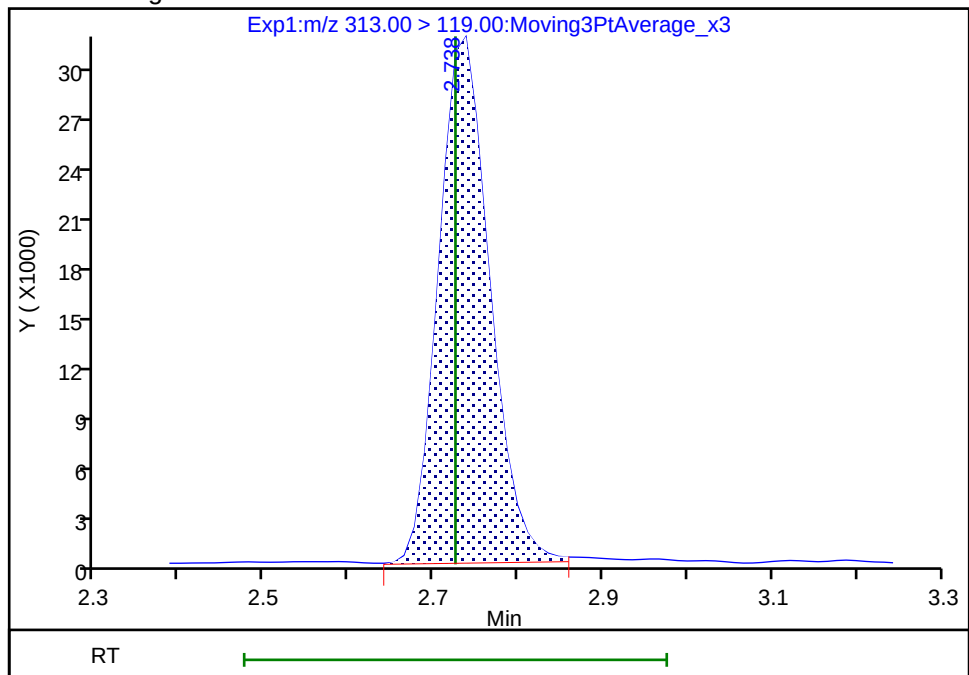
RT: 2.74
Area: 134008
Amount: 0.955166
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 132775
Amount: 0.948472
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:17:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

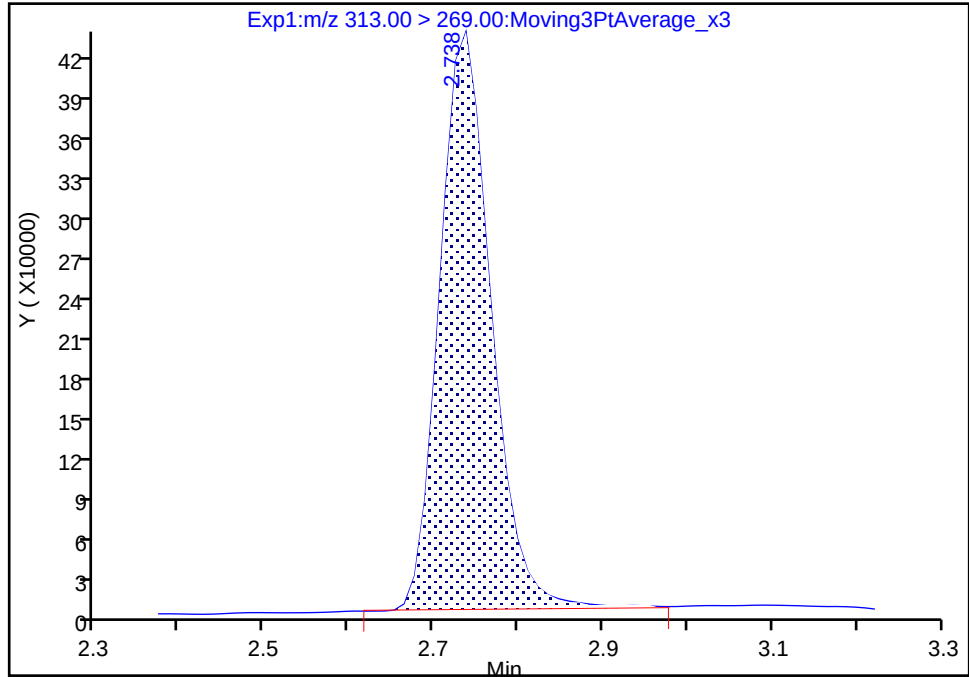
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

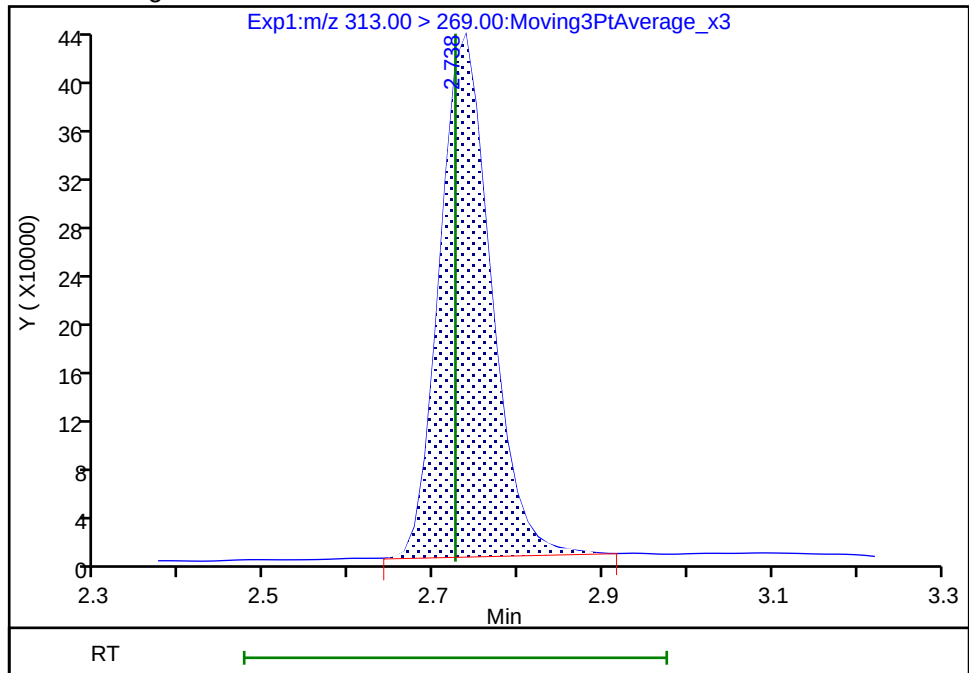
RT: 2.74
Area: 1806832
Amount: 0.955166
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1794169
Amount: 0.948472
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:17:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

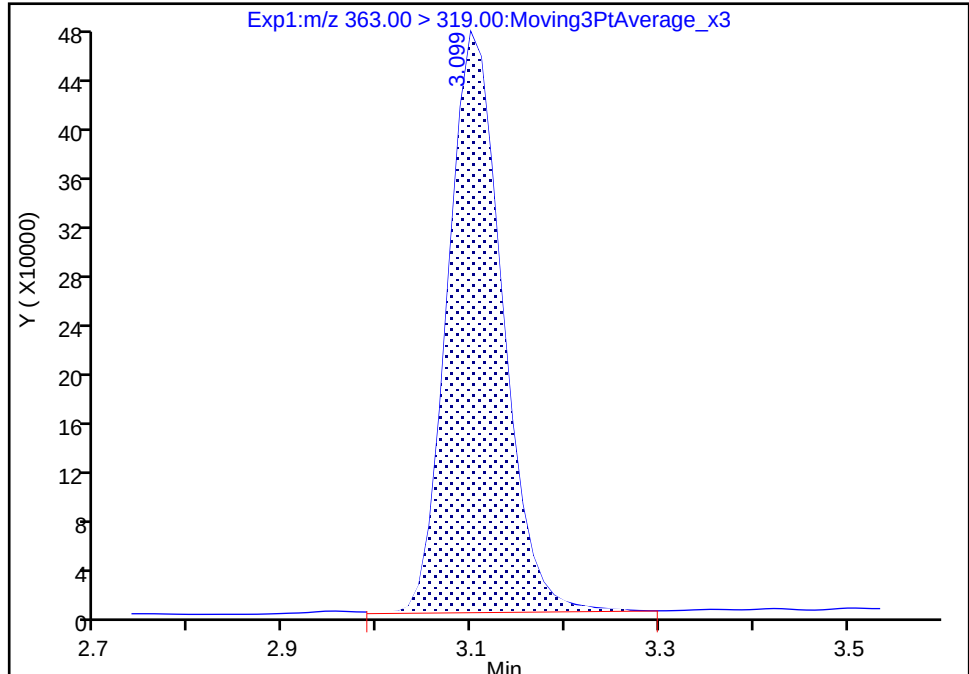
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

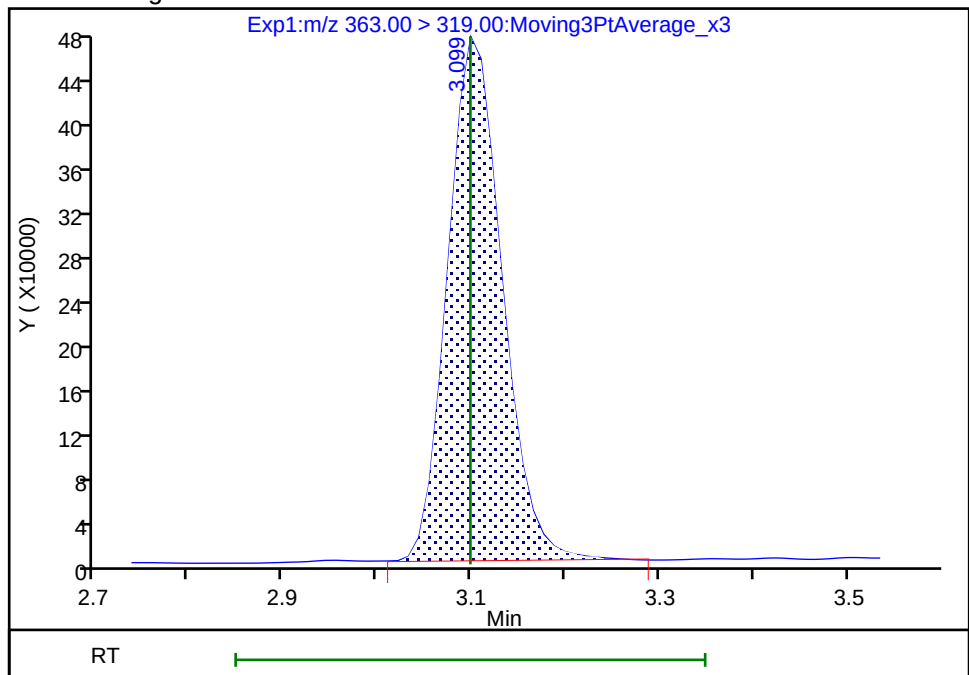
RT: 3.10
Area: 1881801
Amount: 0.961891
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1868702
Amount: 0.955195
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:17:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

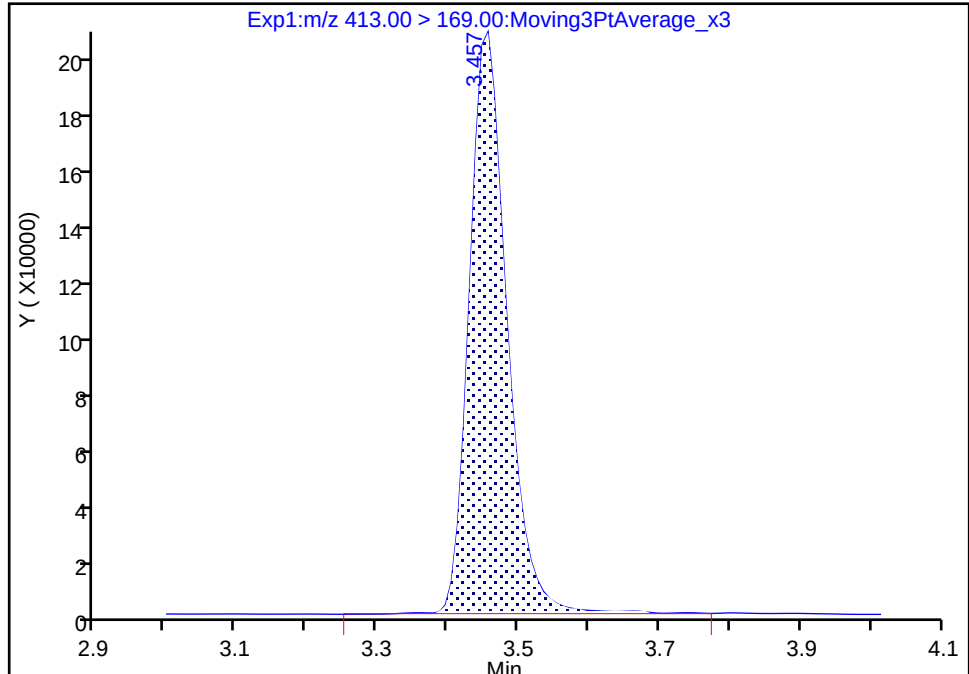
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

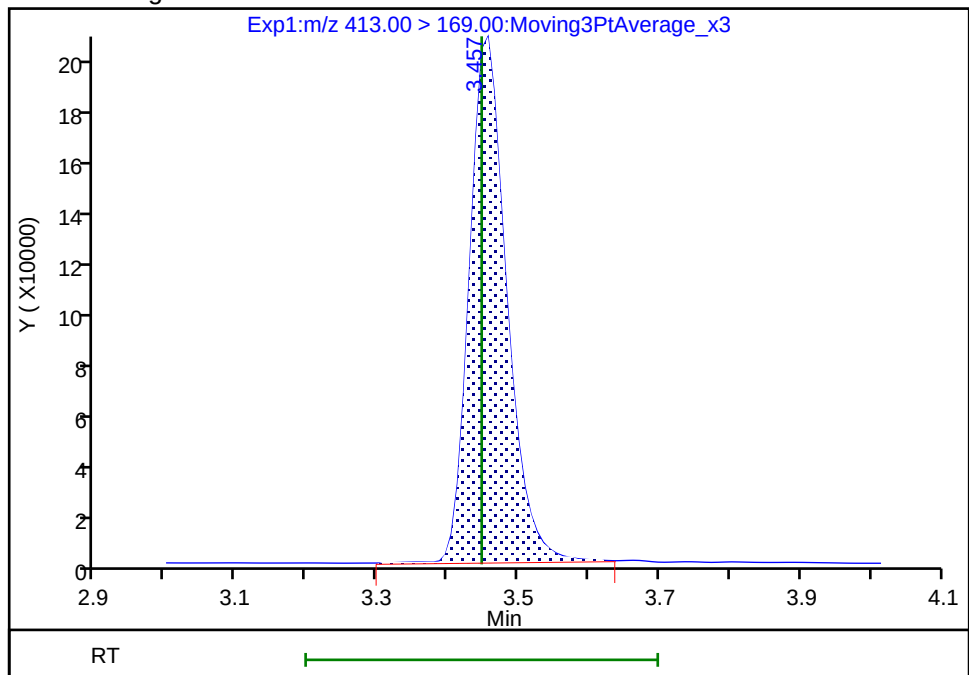
RT: 3.46
Area: 773683
Amount: 1.060181
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 762585
Amount: 1.051116
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

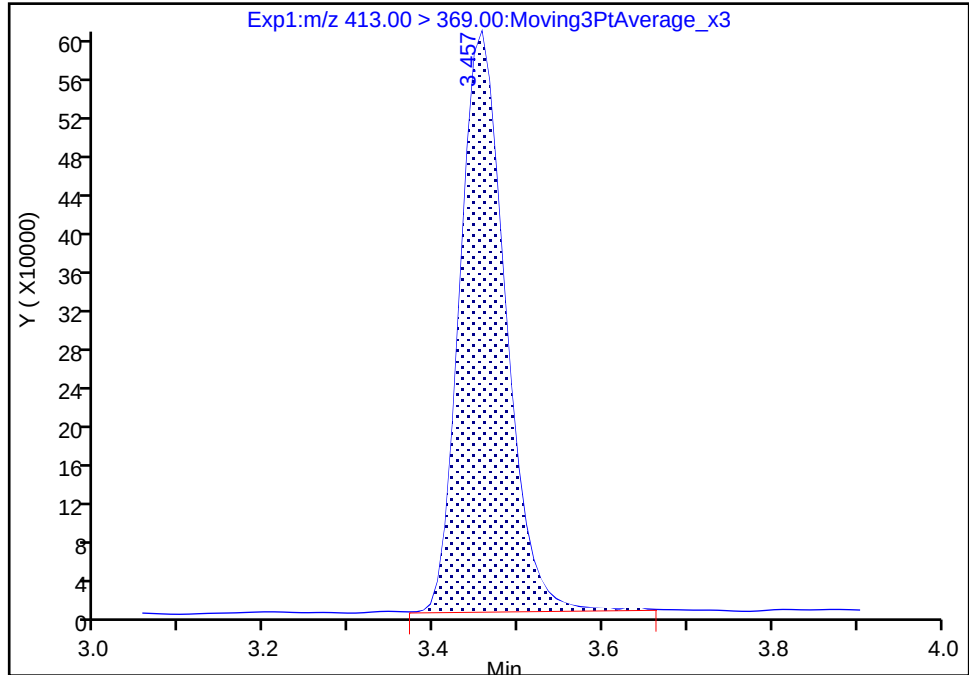
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

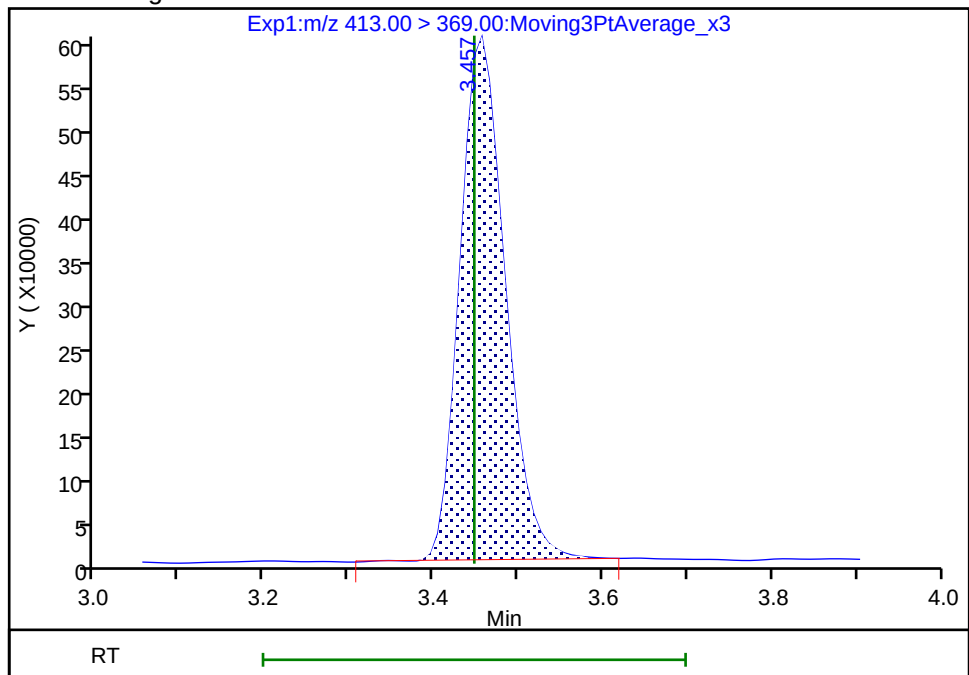
RT: 3.46
Area: 2245735
Amount: 1.060181
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 2226533
Amount: 1.051116
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

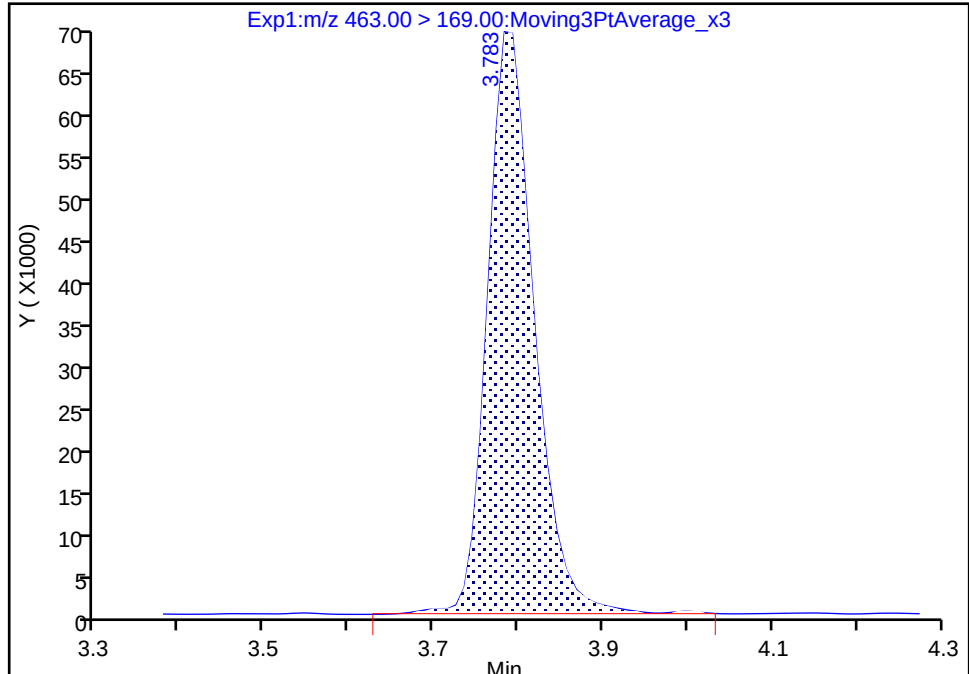
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

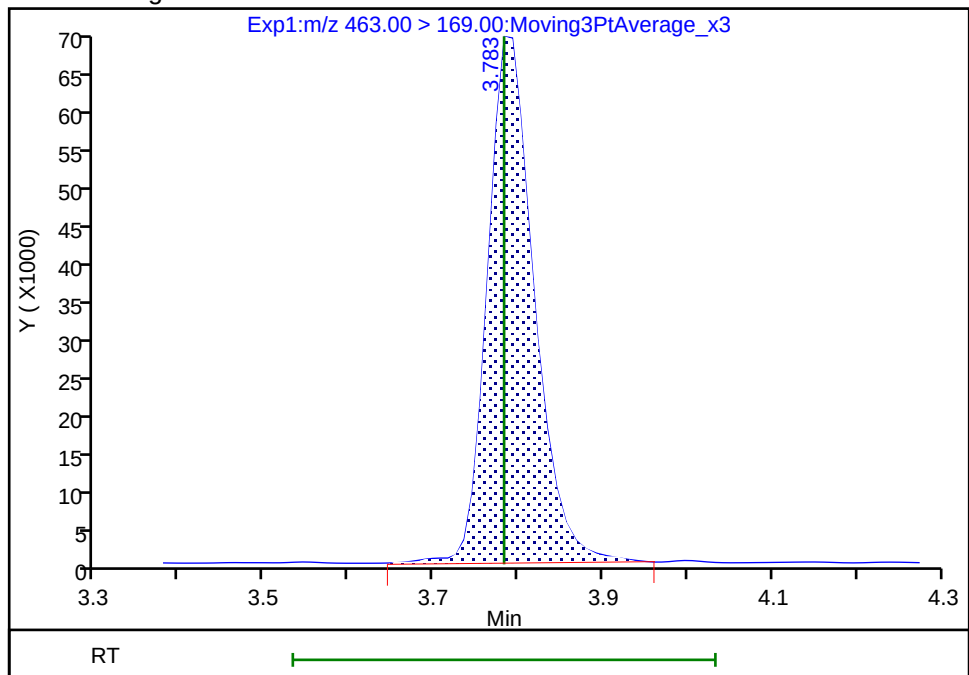
RT: 3.78
Area: 265977
Amount: 1.010071
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 264455
Amount: 1.005441
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

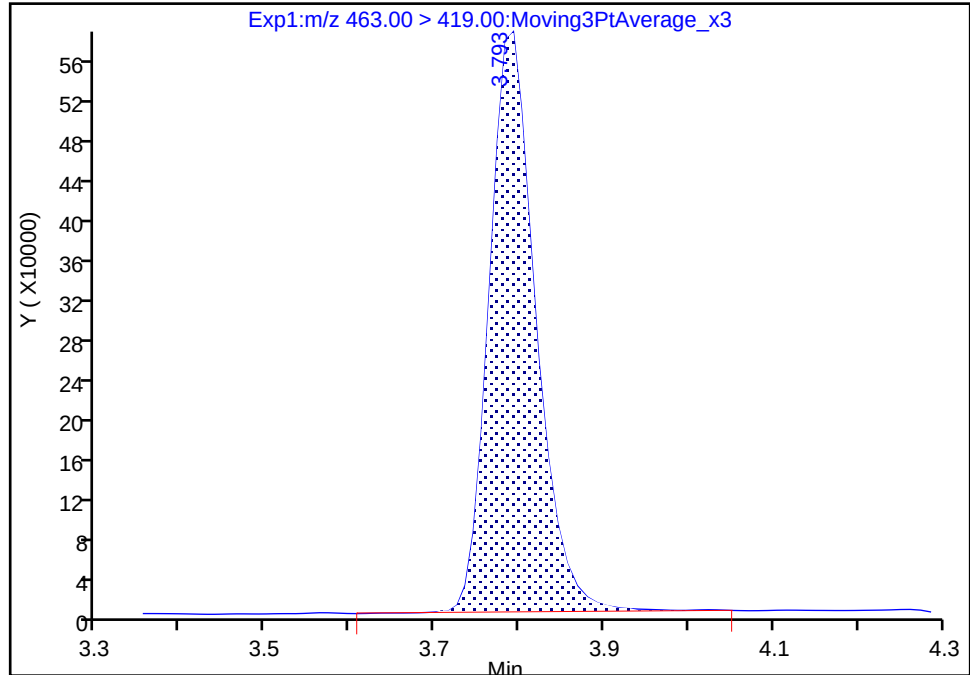
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

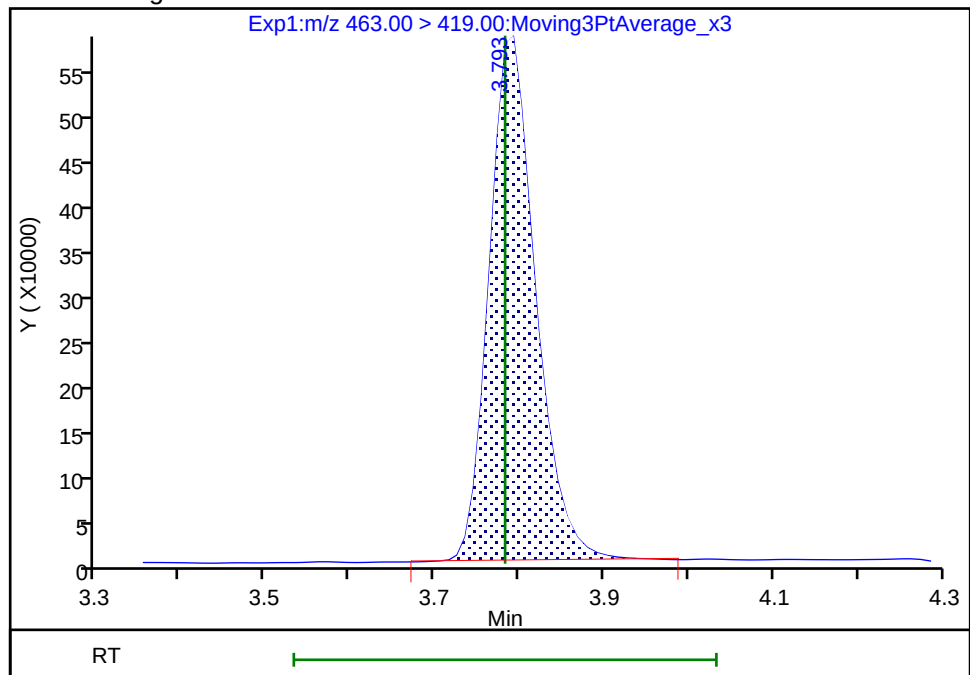
RT: 3.79
Area: 2238201
Amount: 1.010071
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 2227941
Amount: 1.005441
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

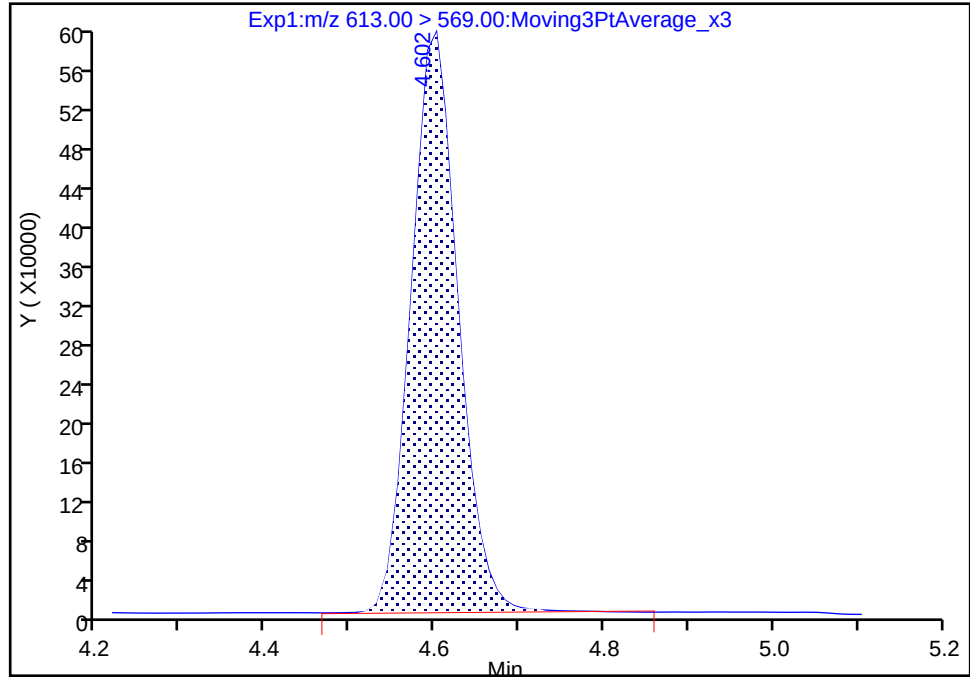
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

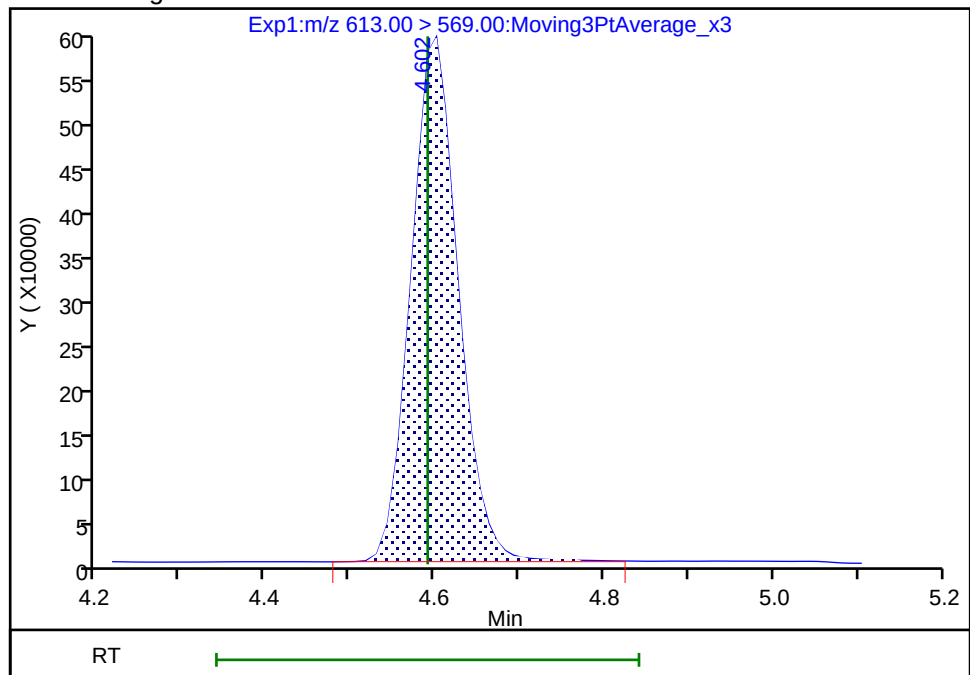
RT: 4.60
Area: 2287426
Amount: 0.970539
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 2279234
Amount: 0.967063
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:19:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

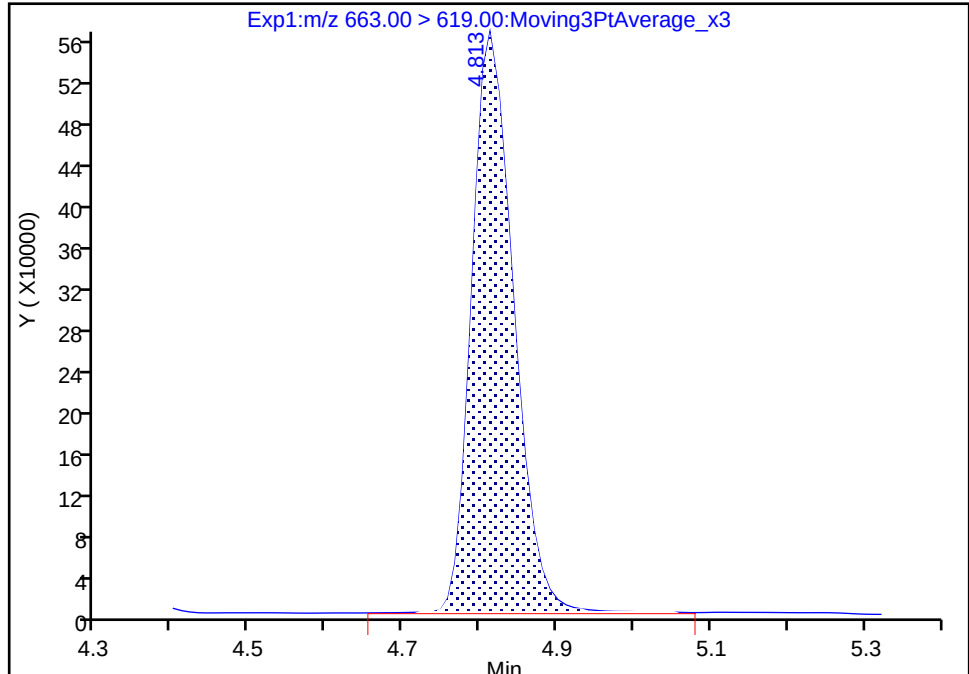
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

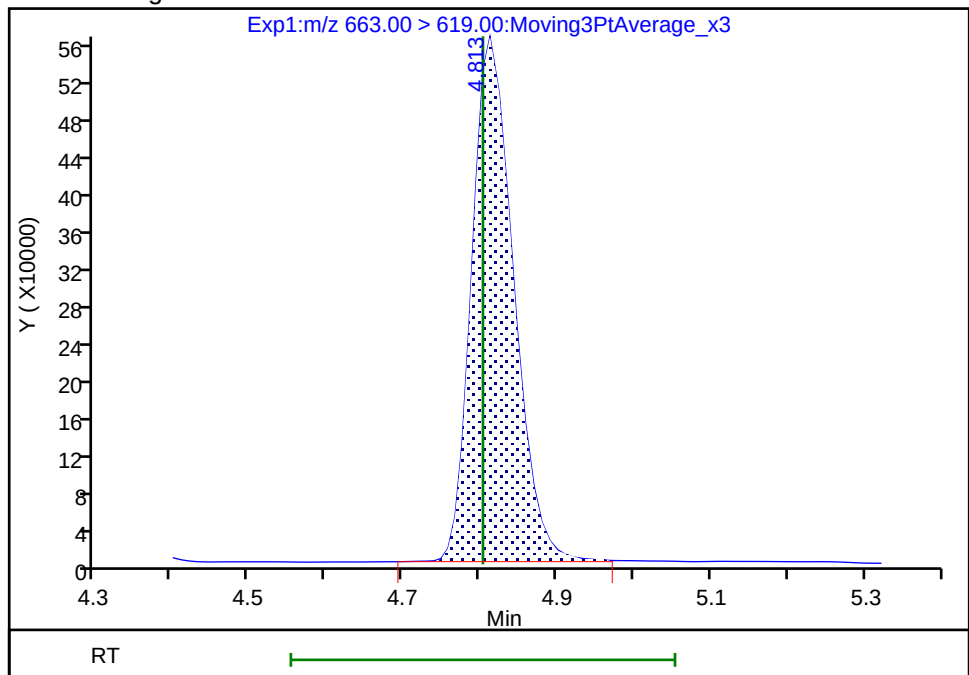
RT: 4.81
Area: 2151218
Amount: 0.954396
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 2130008
Amount: 0.944986
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:19:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

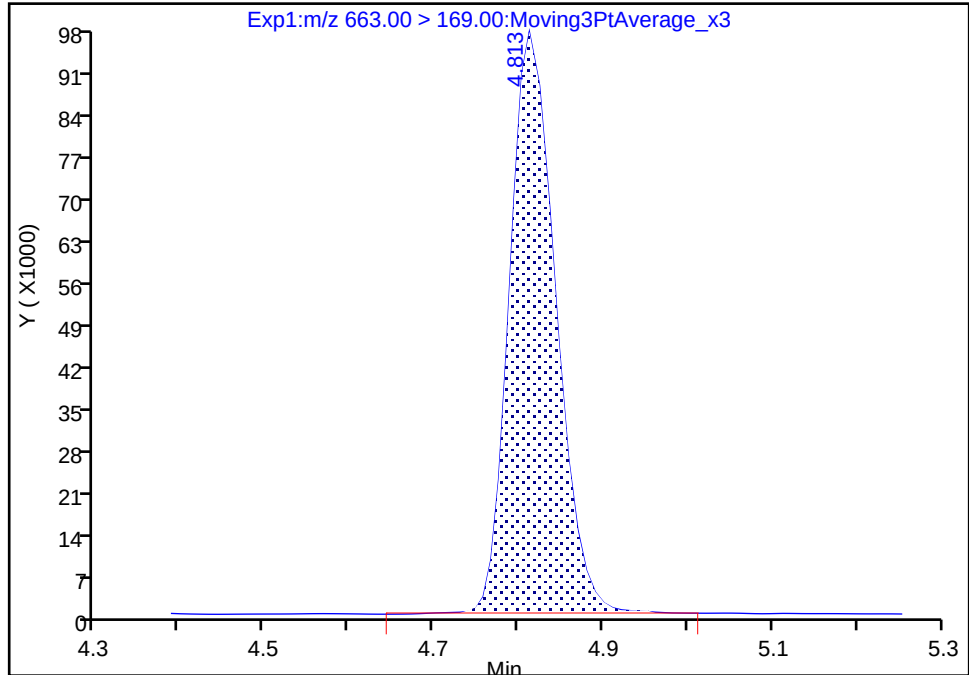
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

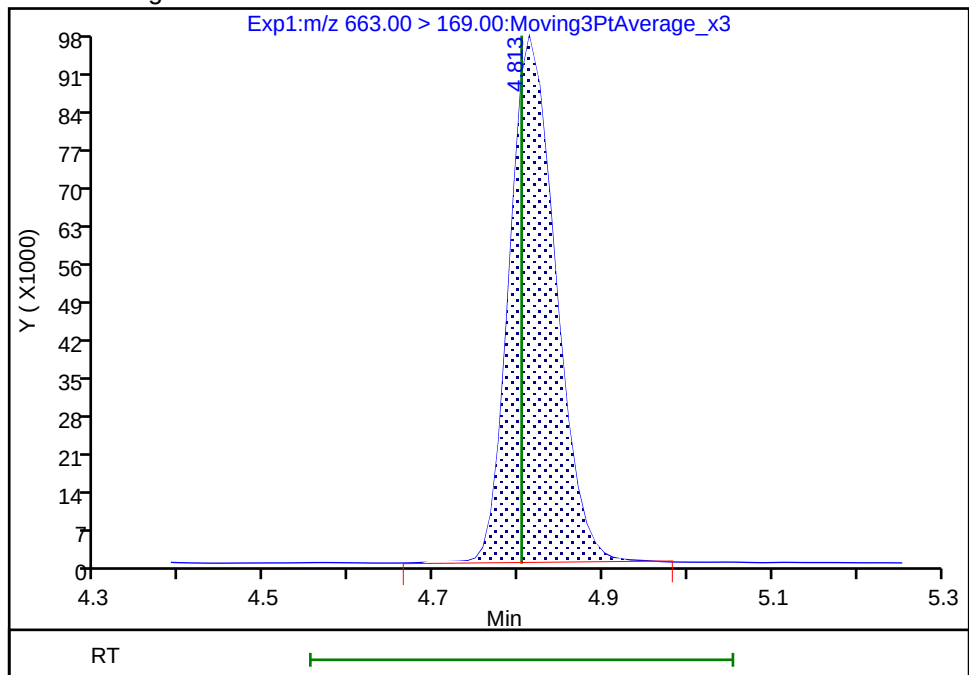
RT: 4.81
Area: 370055
Amount: 0.954396
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 368804
Amount: 0.944986
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:19:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

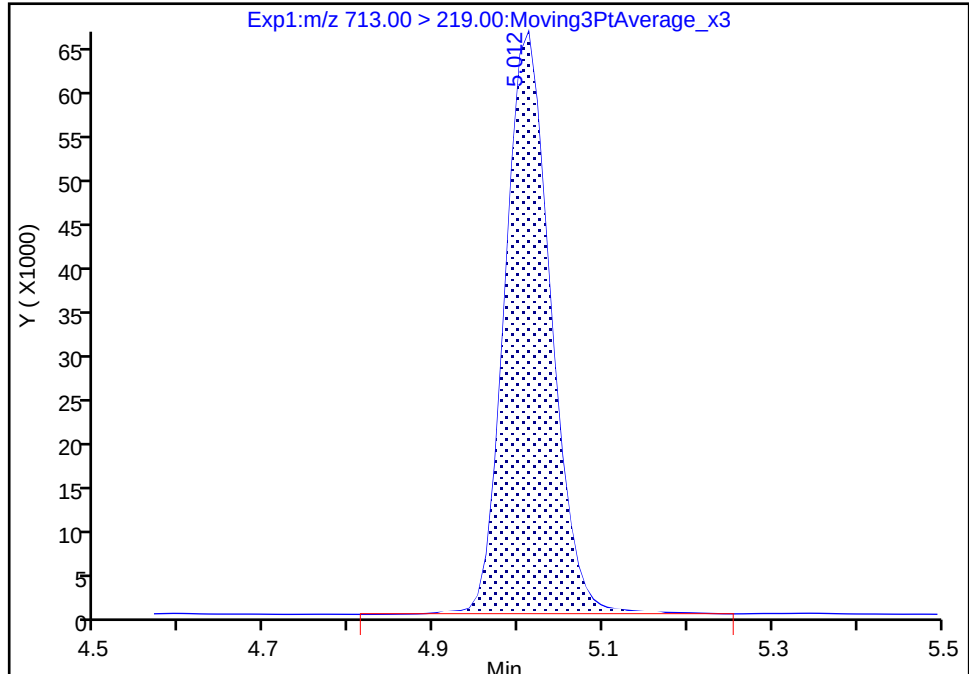
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

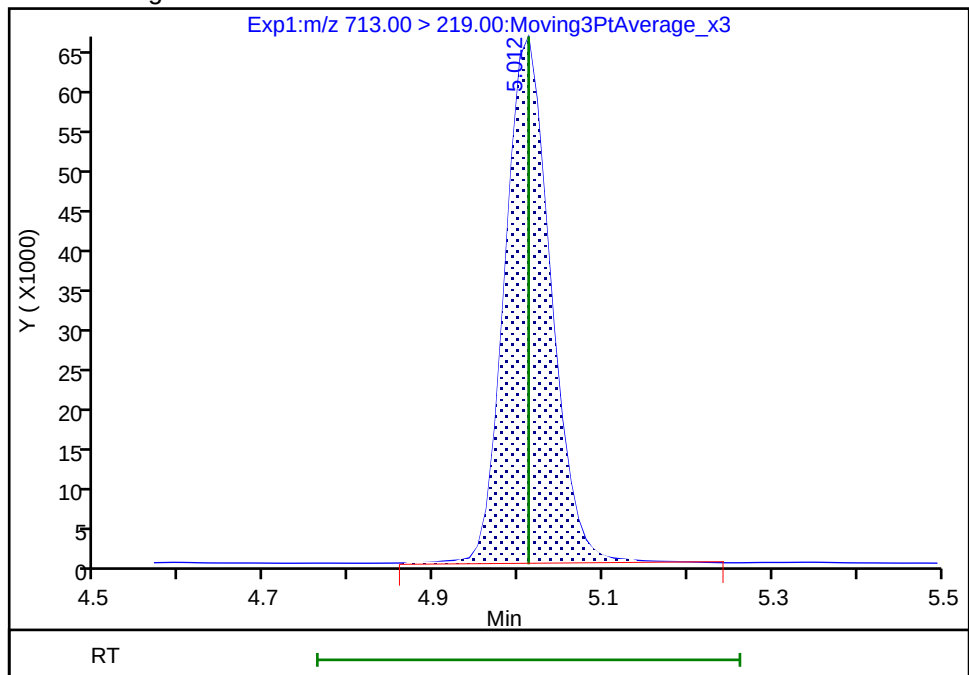
RT: 5.01
Area: 250607
Amount: 0.973742
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 249802
Amount: 0.973742
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:20:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

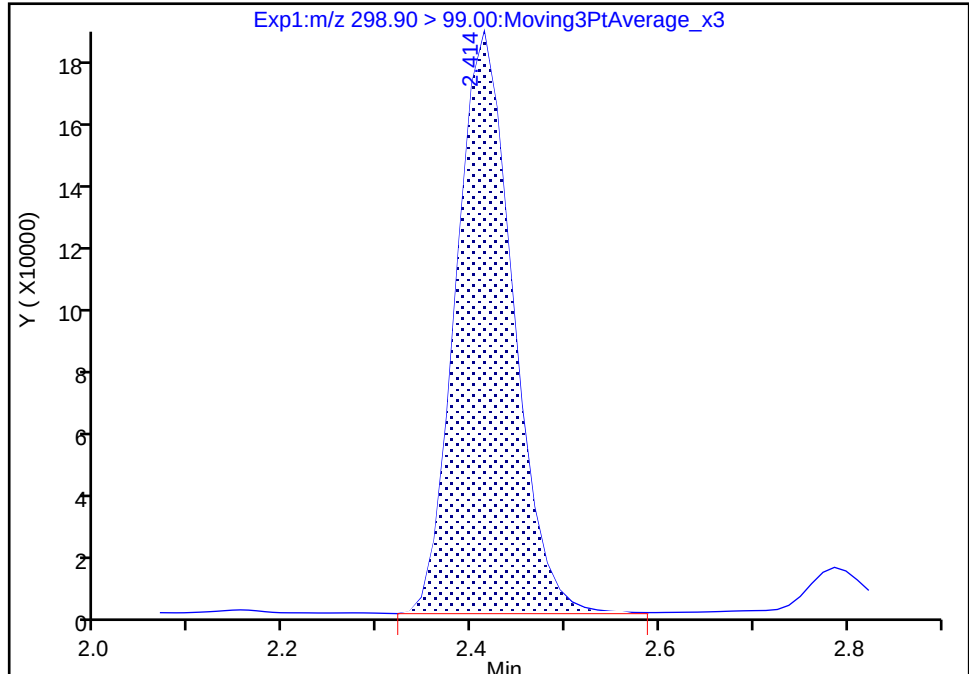
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

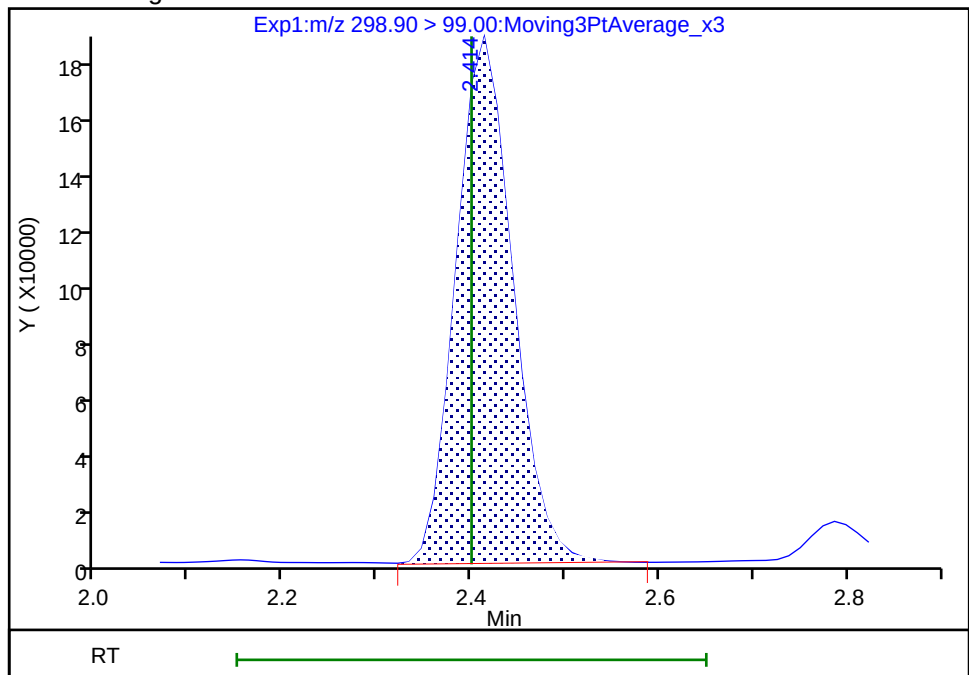
RT: 2.41
Area: 778040
Amount: 0.851656
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 773593
Amount: 0.851656
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:17:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

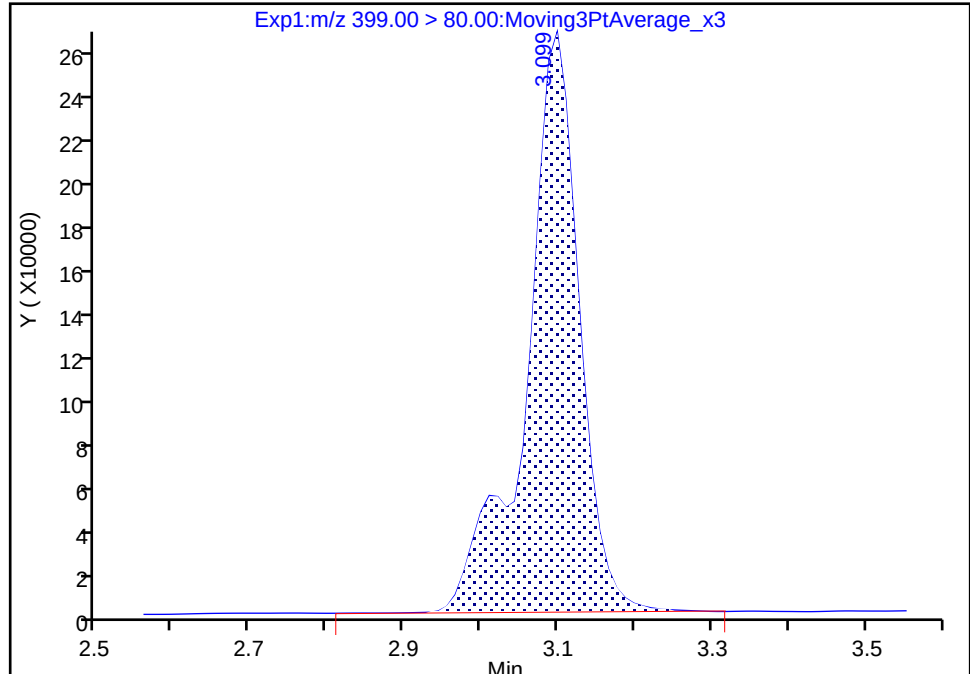
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

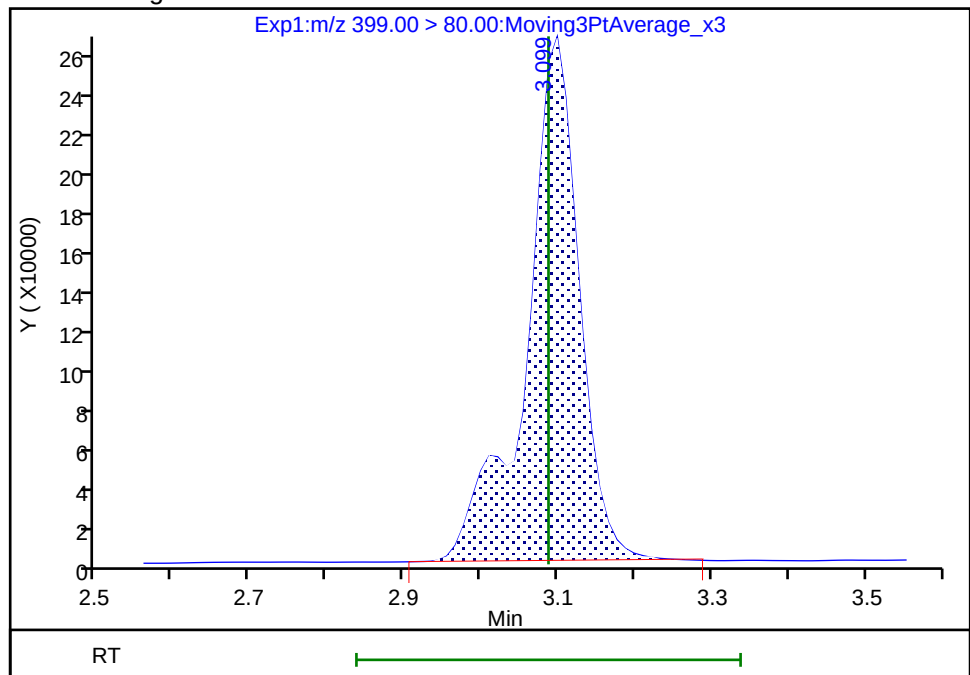
RT: 3.10
Area: 1258387
Amount: 0.932225
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1254534
Amount: 0.929371
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:17:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

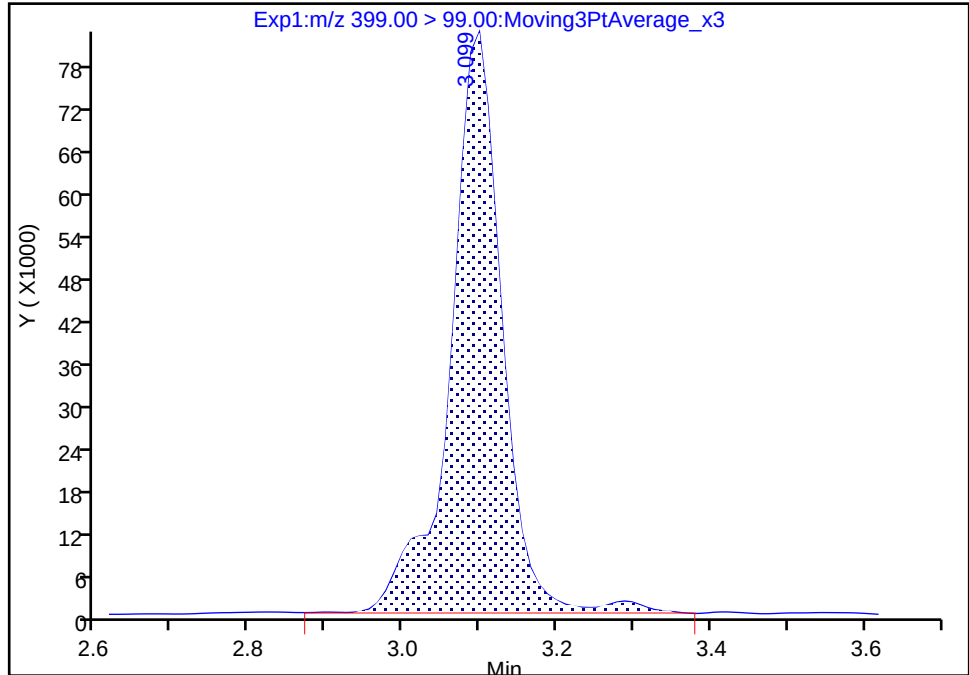
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

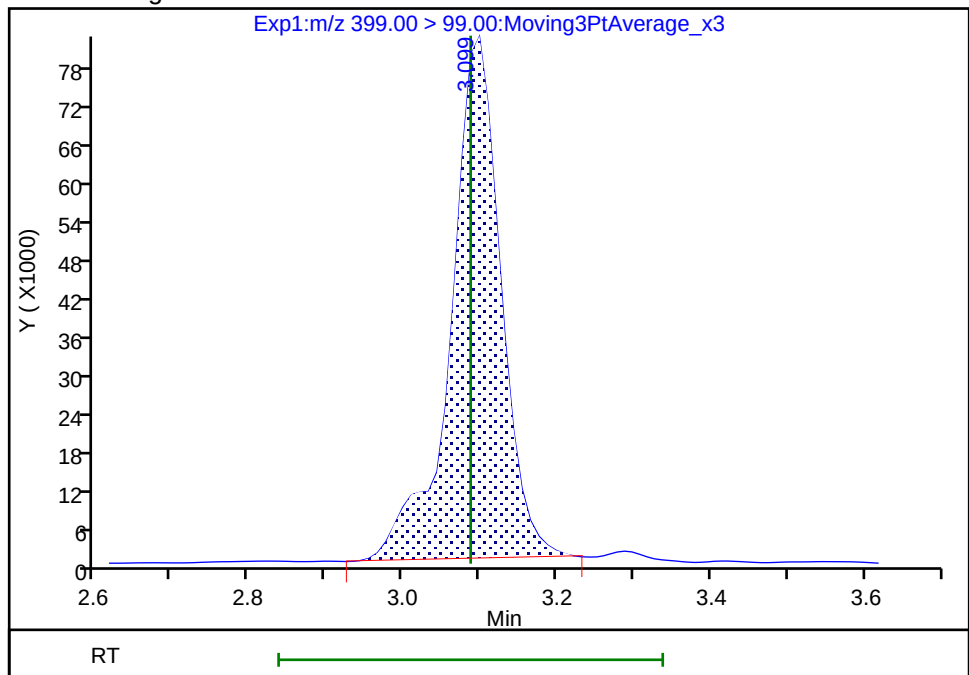
RT: 3.10
Area: 386618
Amount: 0.932225
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 370955
Amount: 0.929371
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:17:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

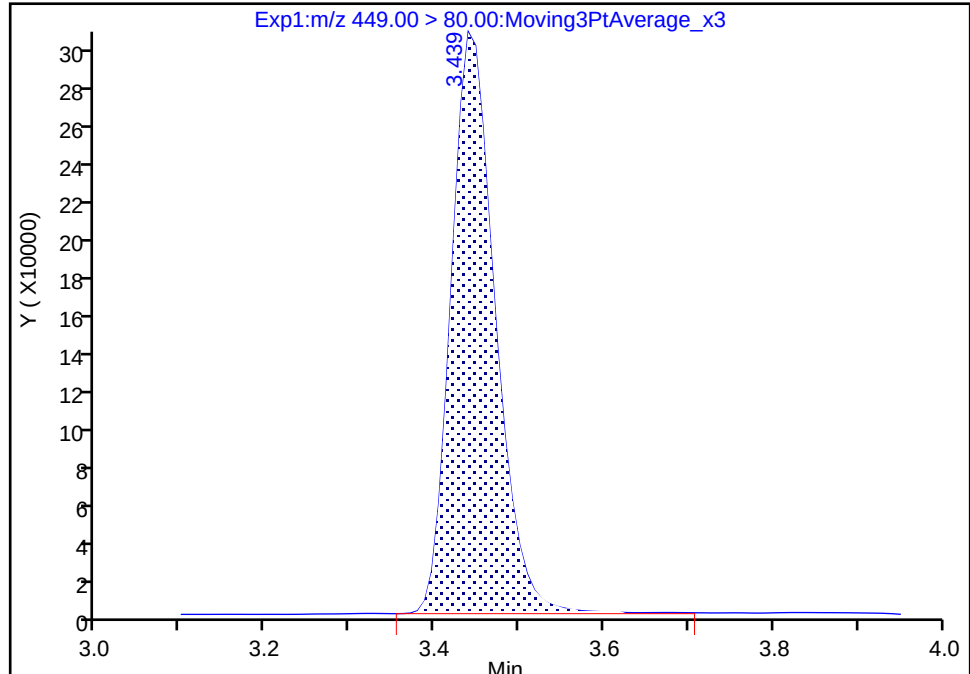
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

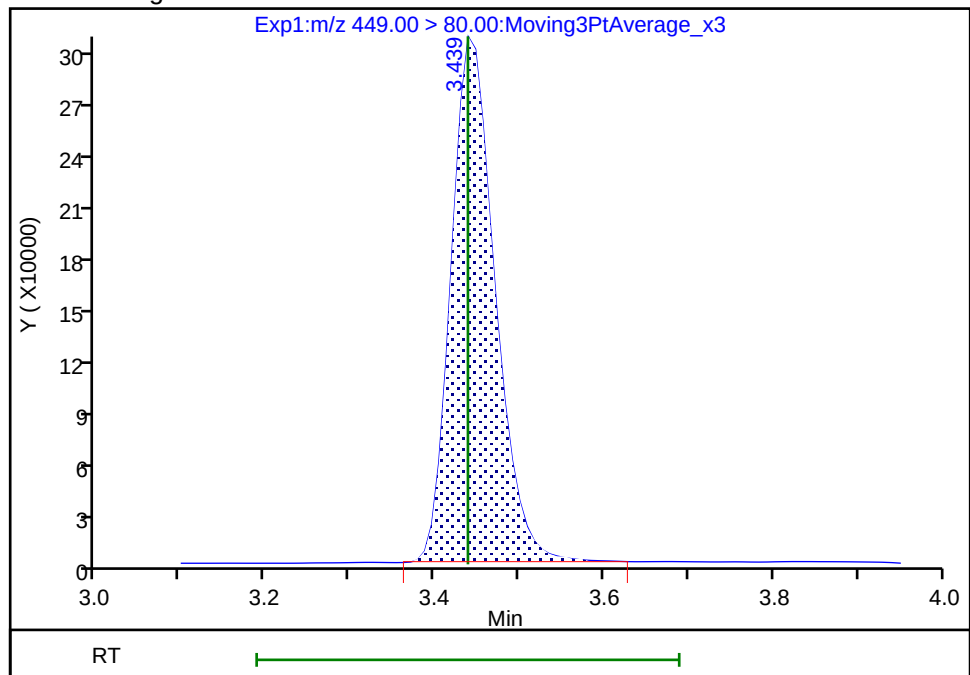
RT: 3.44
Area: 1091253
Amount: 0.972957
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1087513
Amount: 0.969622
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

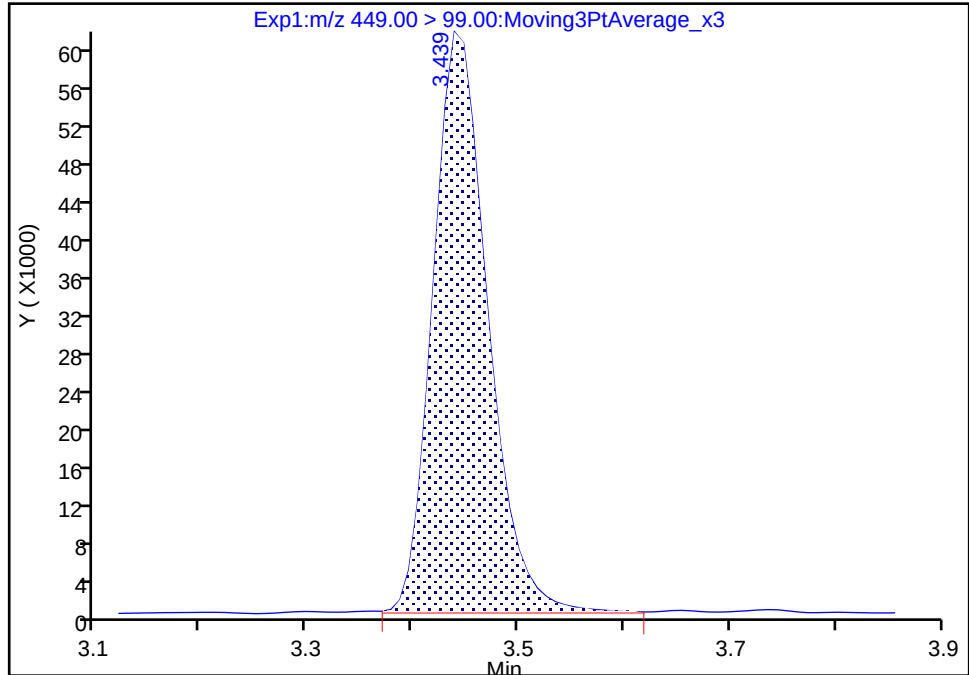
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

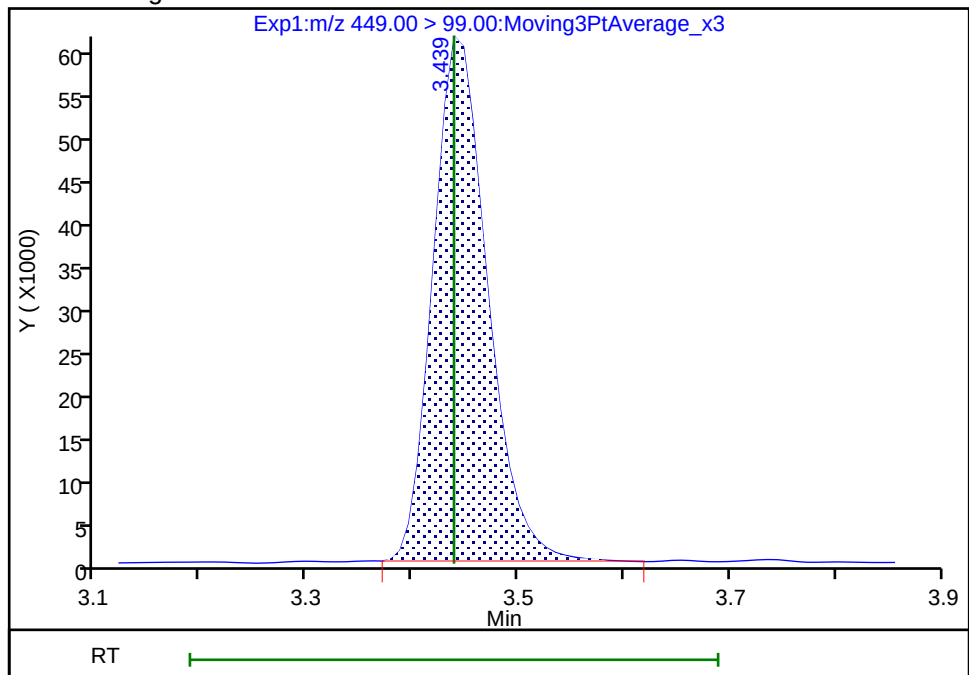
RT: 3.44
Area: 221945
Amount: 0.972957
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 218647
Amount: 0.969622
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

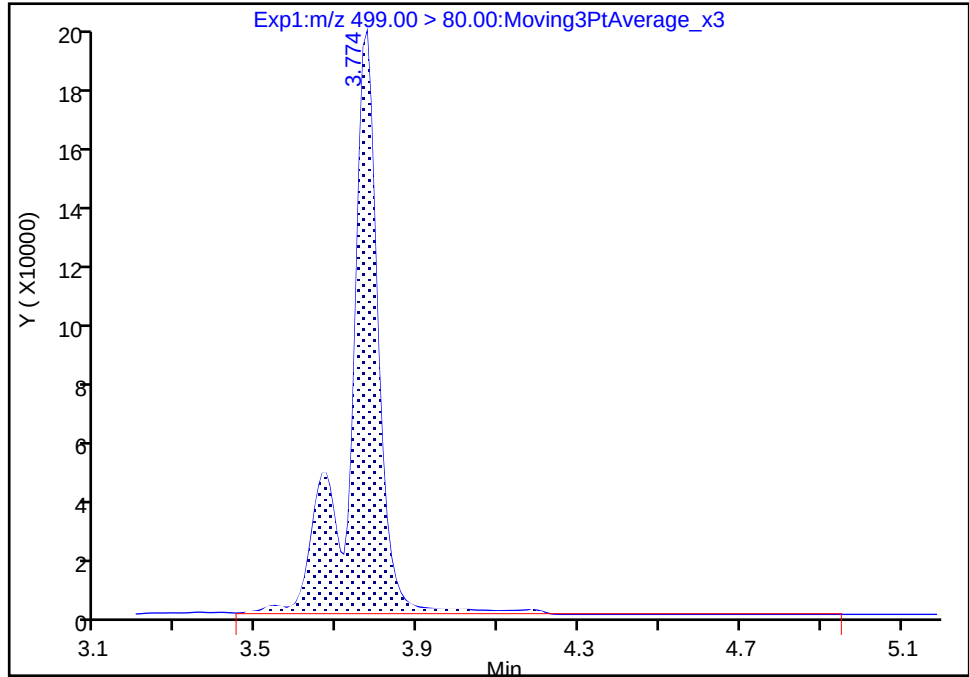
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

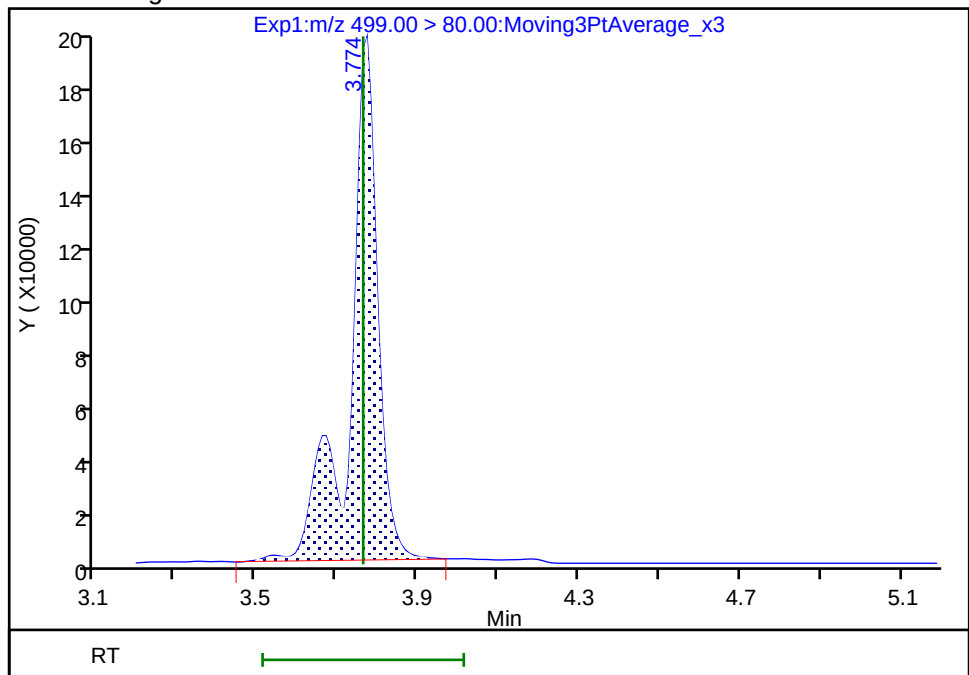
RT: 3.77
Area: 983400
Amount: 1.006987
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 929504
Amount: 0.951798
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

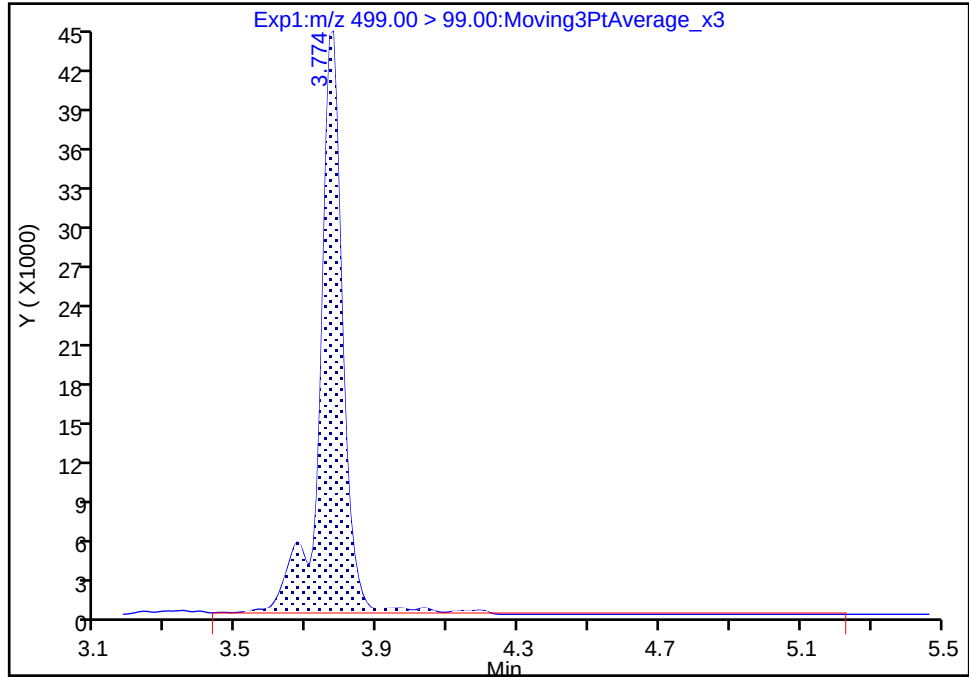
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

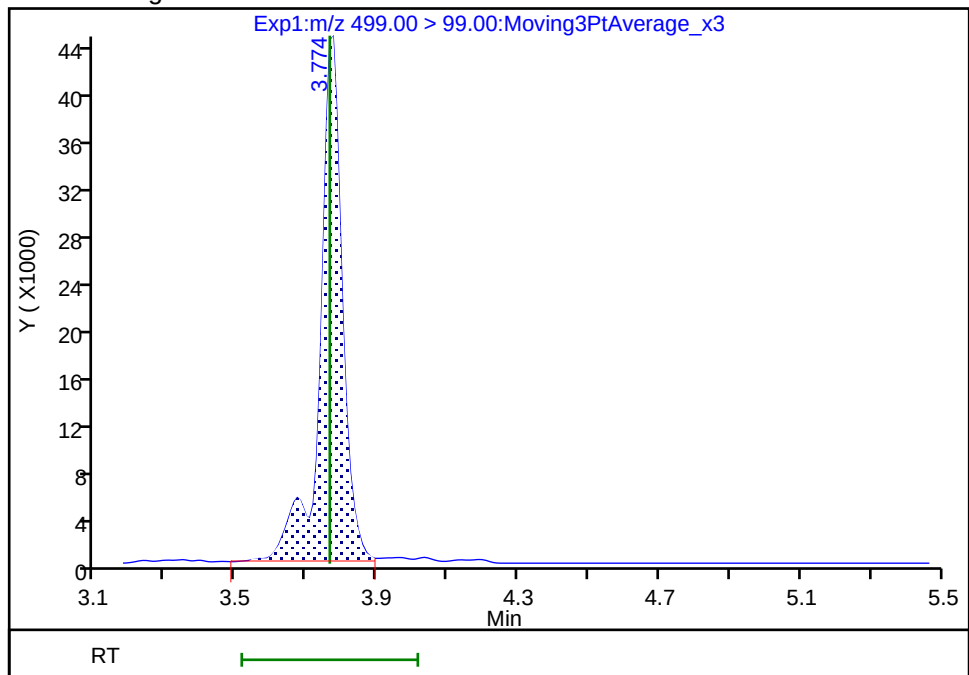
RT: 3.77
Area: 208459
Amount: 1.006987
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 196254
Amount: 0.951798
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

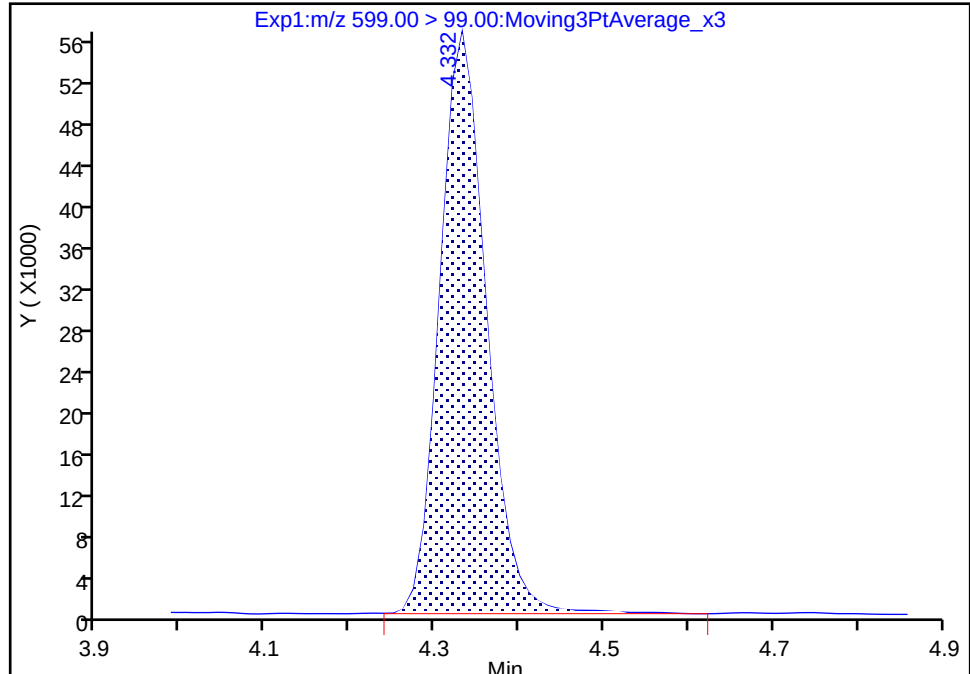
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

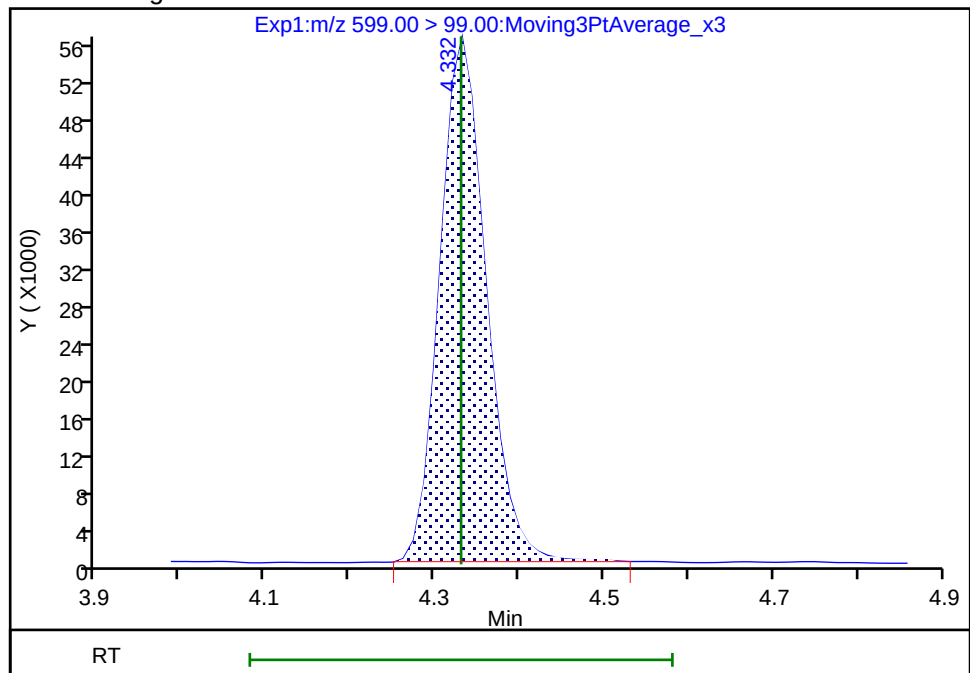
RT: 4.33
Area: 217017
Amount: 0.961473
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 214622
Amount: 0.961473
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:19:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

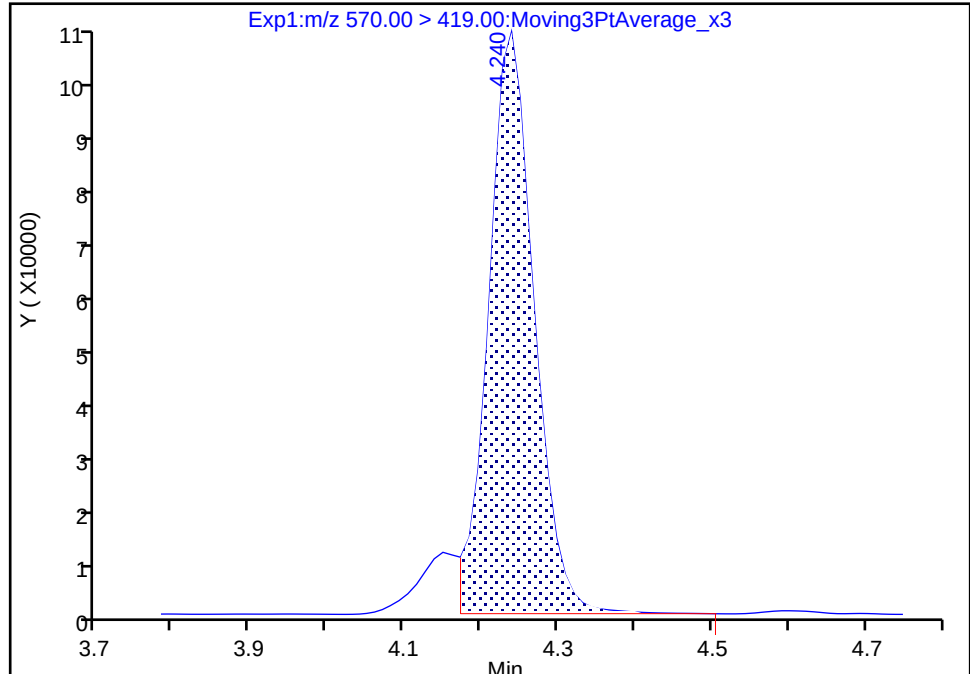
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

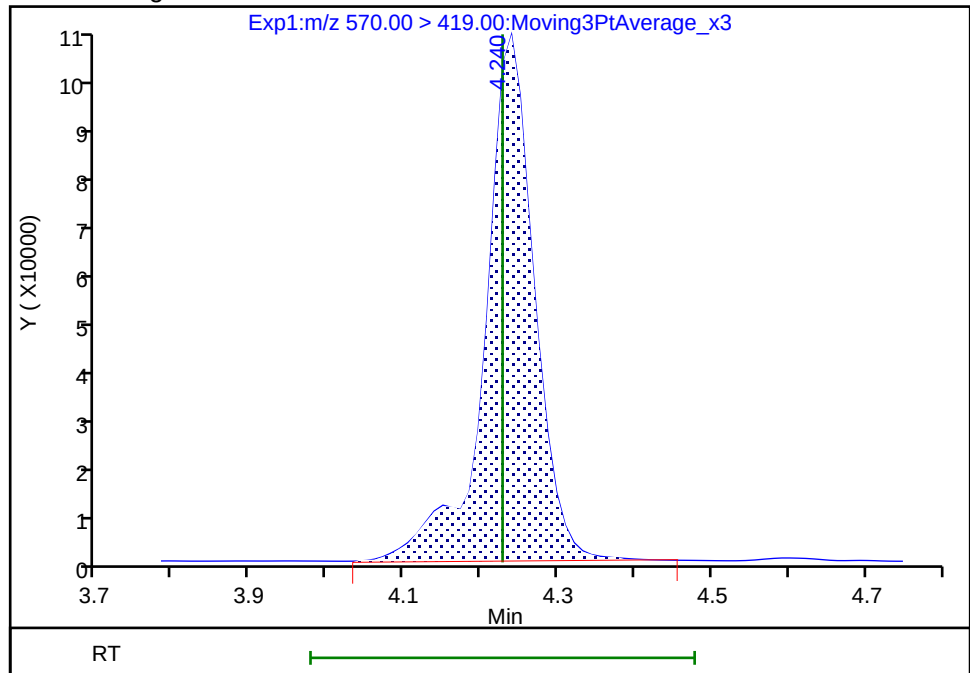
RT: 4.24
Area: 445675
Amount: 0.930079
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 484312
Amount: 1.011718
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:19:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

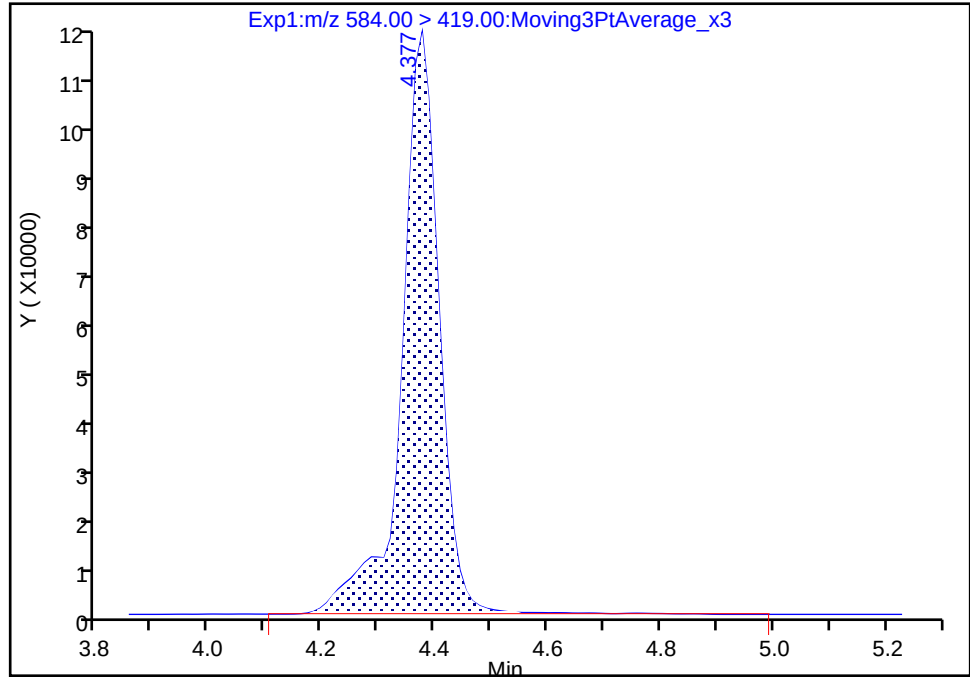
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

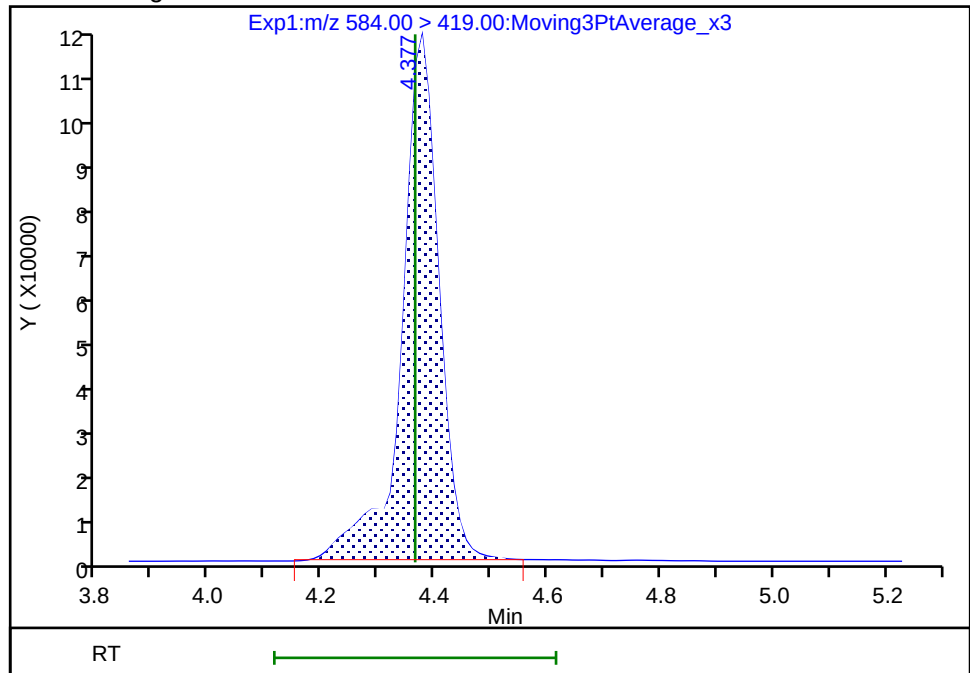
RT: 4.38
Area: 530079
Amount: 0.958780
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 520468
Amount: 0.941396
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:19:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

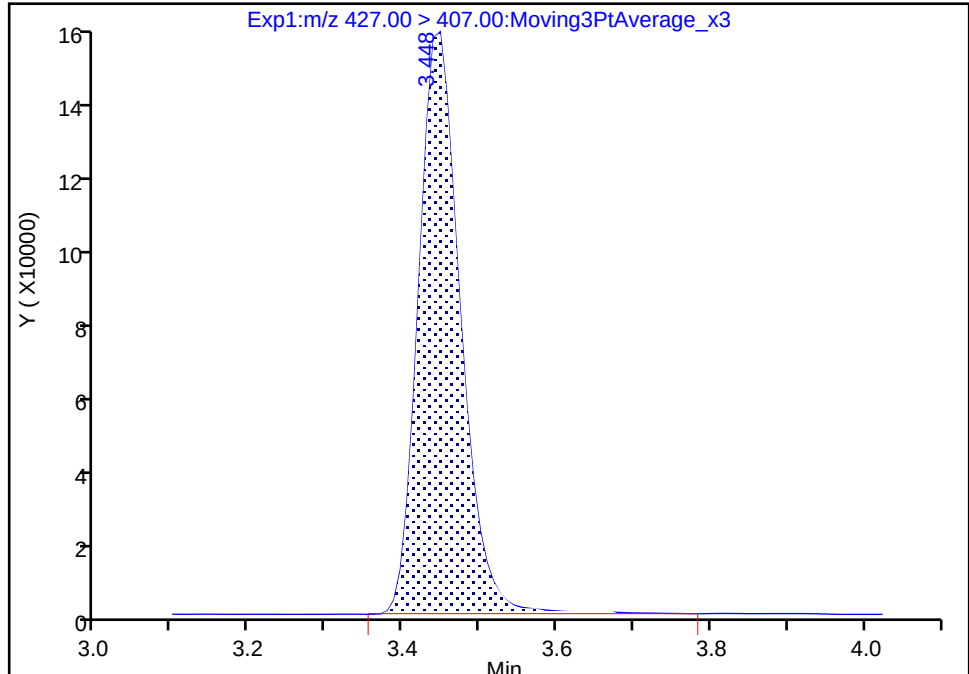
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

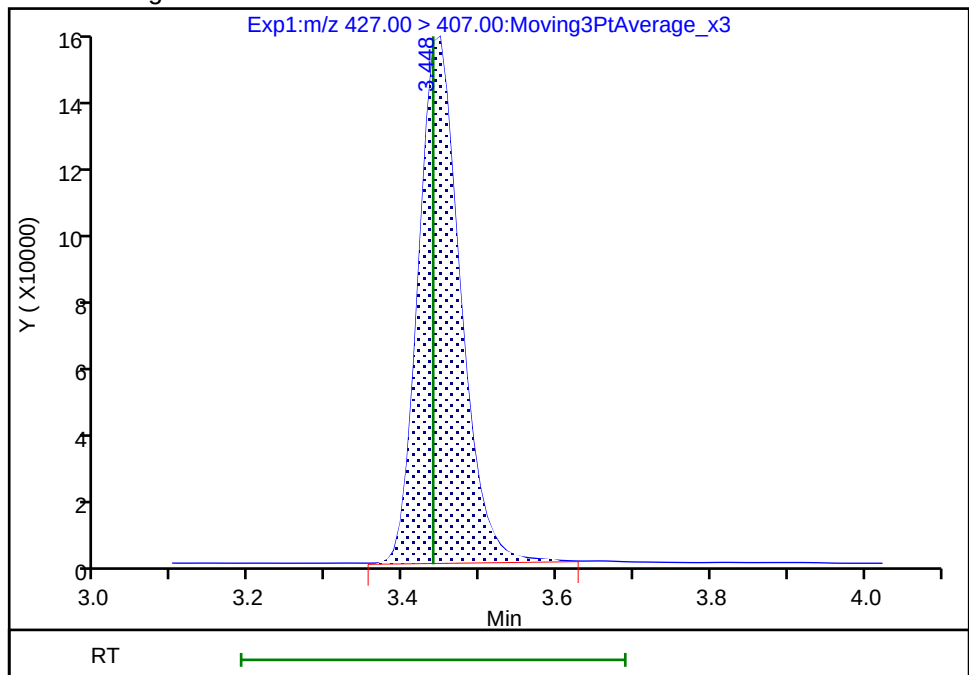
RT: 3.45
Area: 589639
Amount: 1.026683
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 587130
Amount: 1.022264
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:18:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

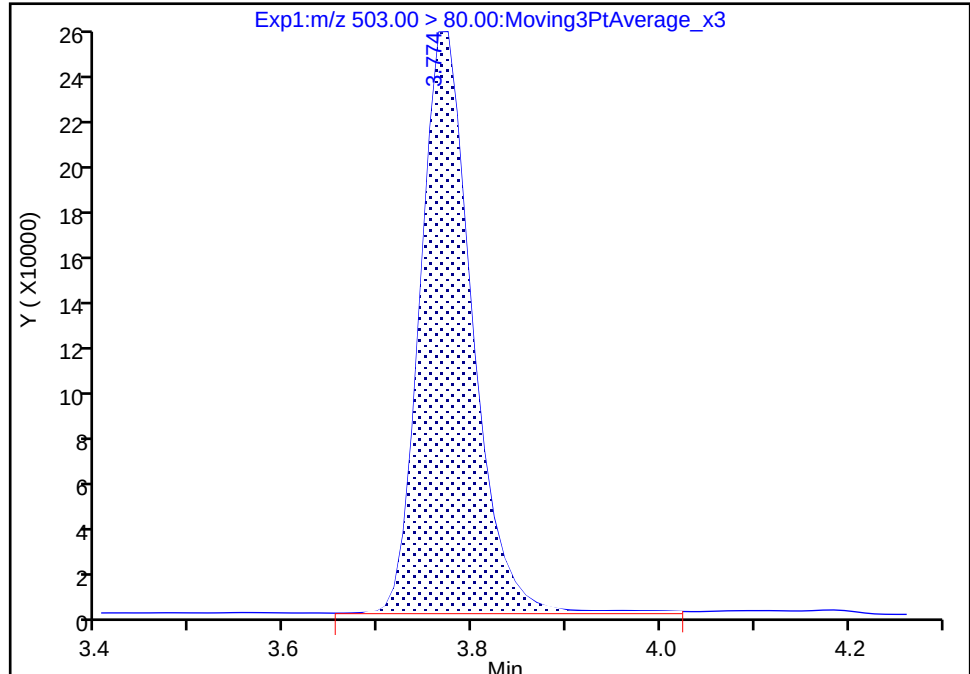
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

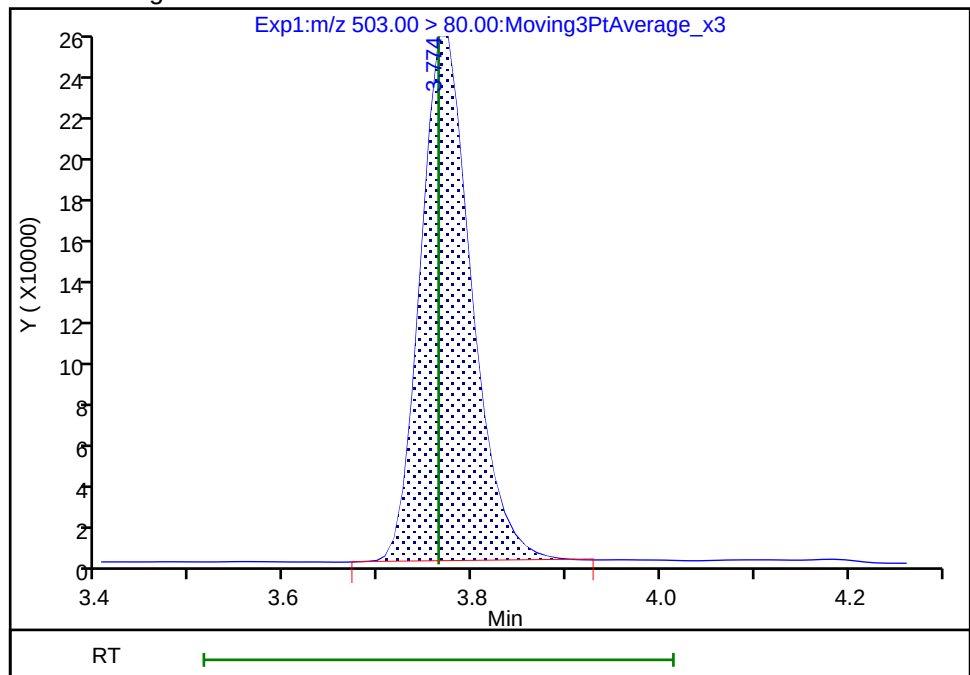
RT: 3.77
Area: 974101
Amount: 1.019650
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 959601
Amount: 1.004472
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:16:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

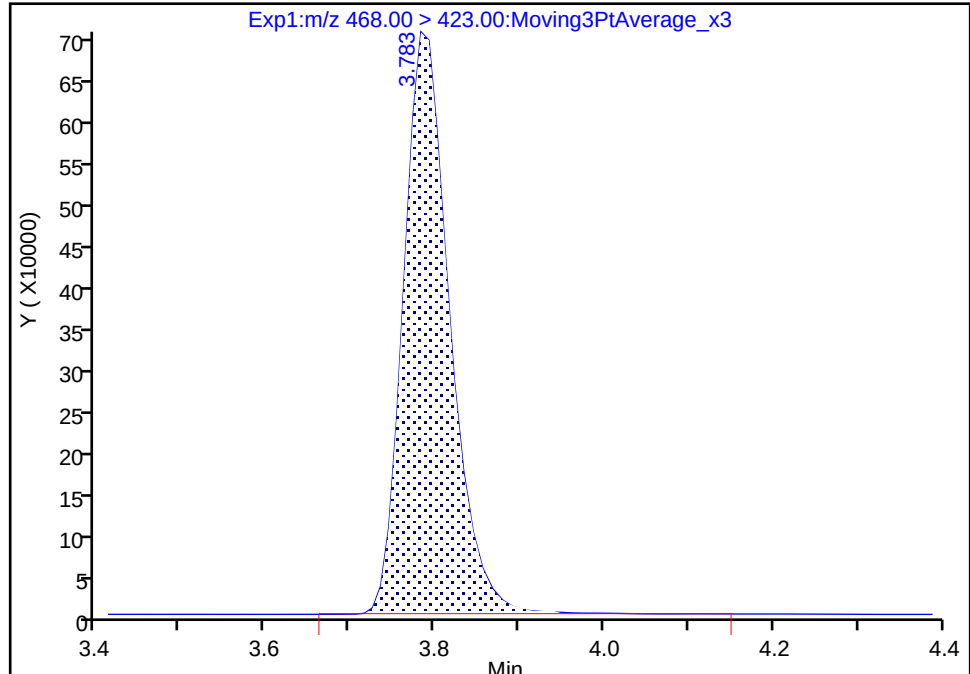
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

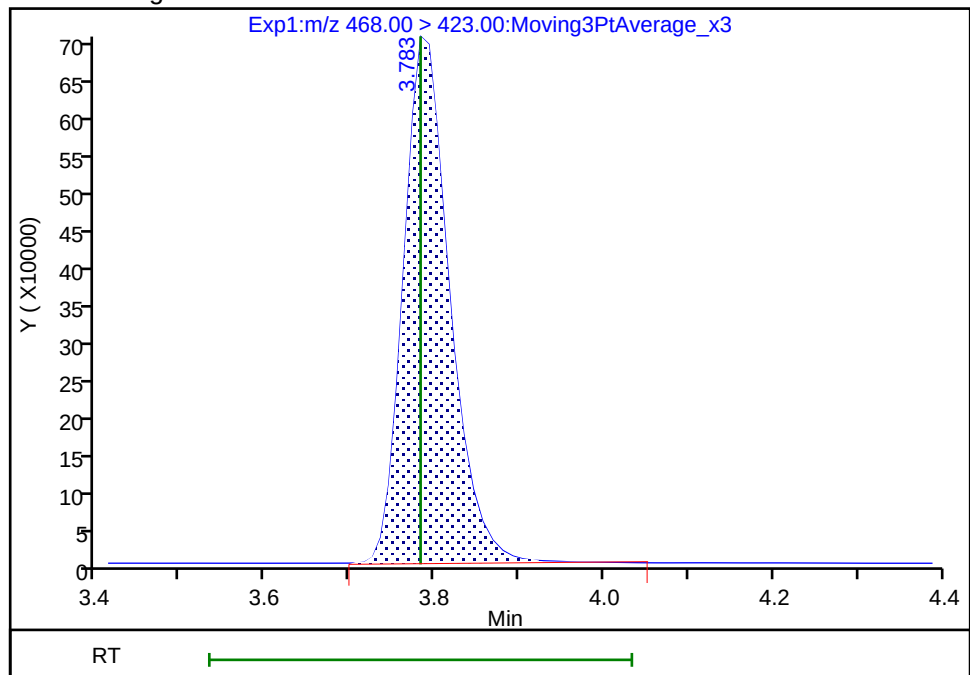
RT: 3.78
Area: 2673554
Amount: 1.276505
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2670114
Amount: 1.274862
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:16:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

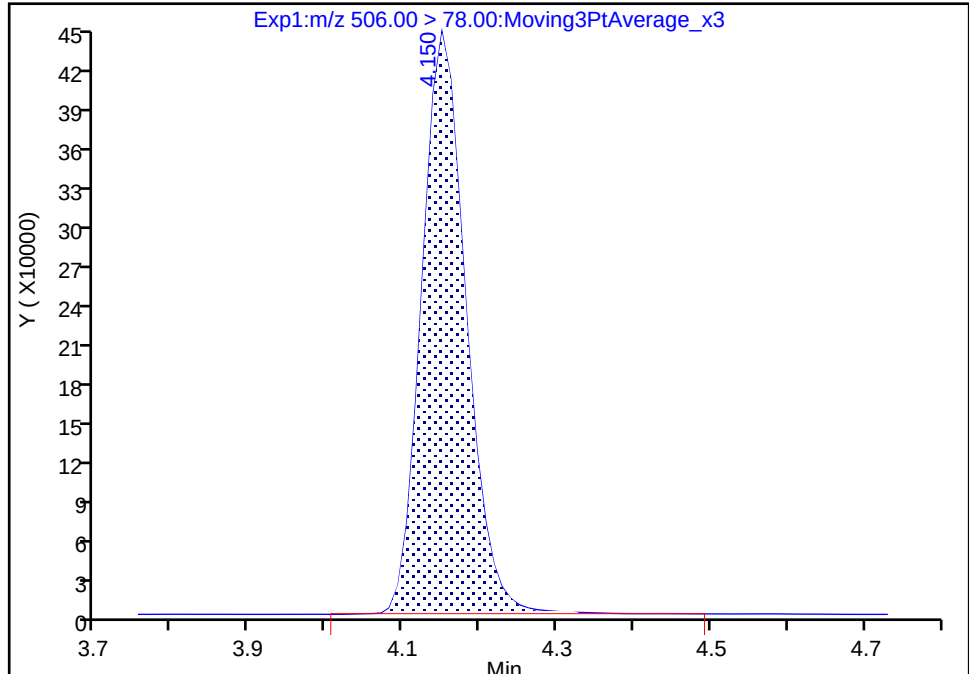
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Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

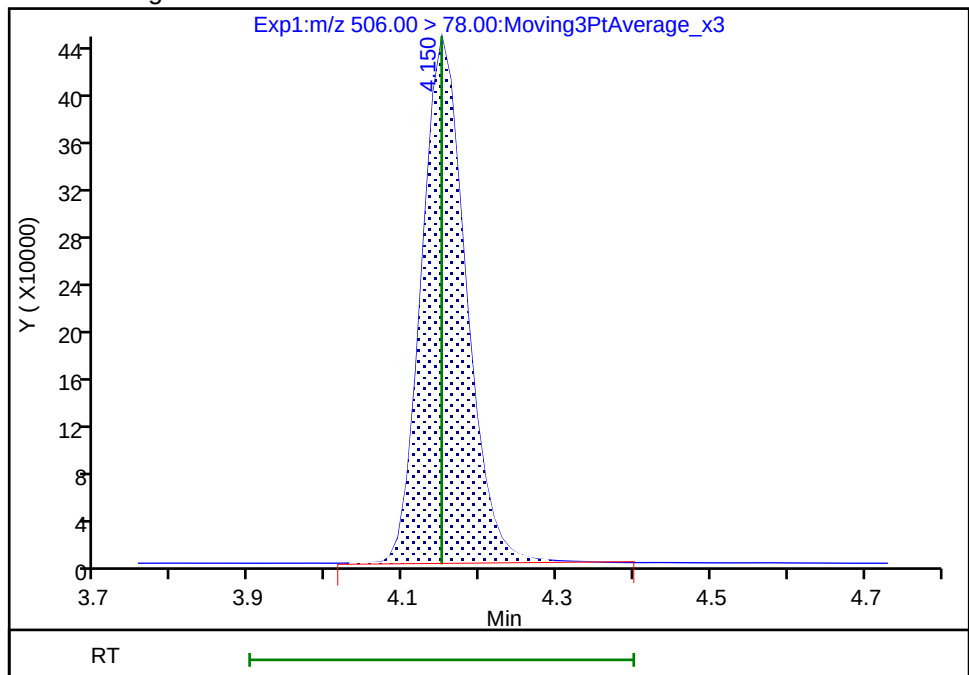
RT: 4.15
Area: 1781677
Amount: 1.018239
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1777825
Amount: 1.016037
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:16:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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3:12 PM

Eurofins Burlington

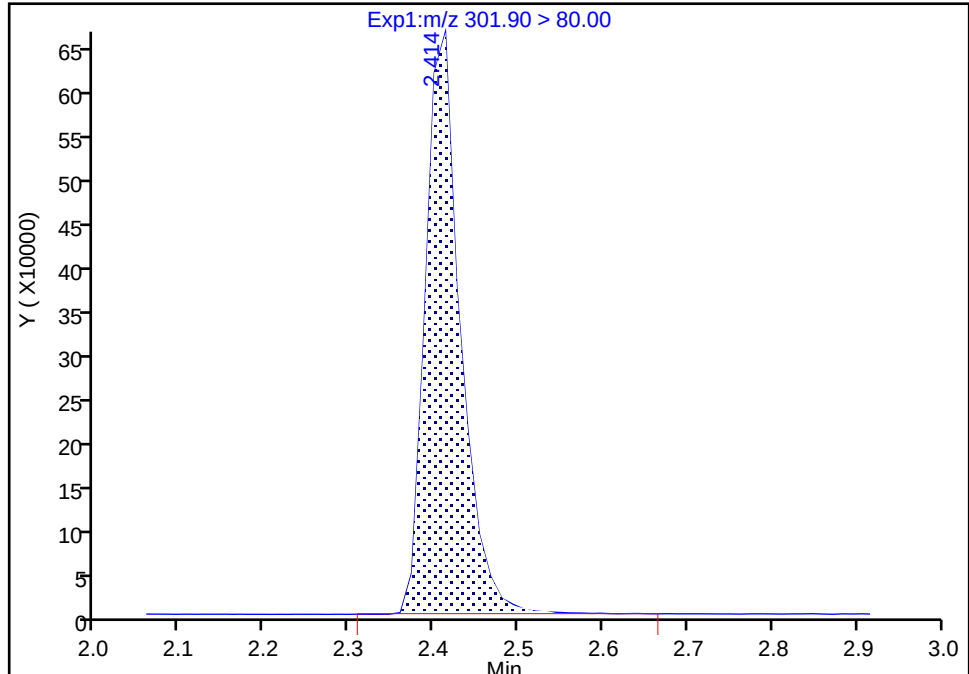
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A15.d
Injection Date: 16-Dec-2022 13:39:32 Instrument ID: LC812
Lims ID: 480-204551-A-5-B MS
Client ID: BR-MW-05_20221207_0-0.2-N_MS
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

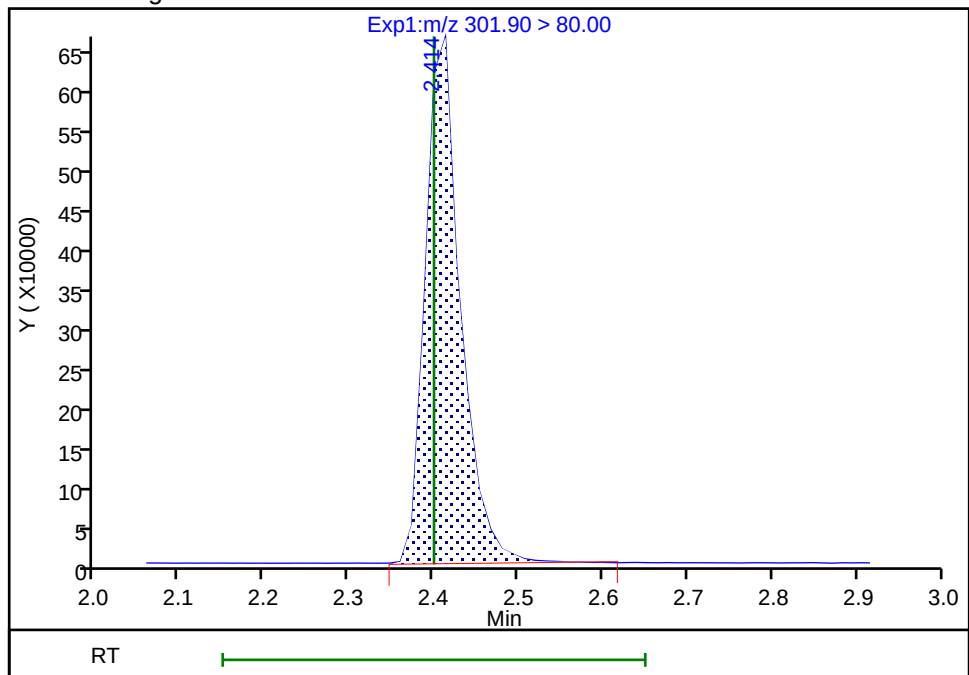
RT: 2.41
Area: 1927617
Amount: 0.997372
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1924811
Amount: 0.995920
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:16:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 480-204551-A-5-C MSD

Matrix: Solid Lab File ID: PA221216A16.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 12/15/2022 09:16

Sample wt/vol: 5.08 (g) Date Analyzed: 12/16/2022 13:47

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 5.7 % Solids: 94.3 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 186802 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.090		0.52	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.122		0.21	0.057
307-24-4	Perfluorohexanoic acid (PFHxA)	2.072		0.21	0.048
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.009		0.21	0.041
335-67-1	Perfluorooctanoic acid (PFOA)	2.112		0.21	0.061
375-95-1	Perfluorononanoic acid (PFNA)	2.064		0.21	0.035
335-76-2	Perfluorodecanoic acid (PFDA)	2.048		0.21	0.029
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.034		0.21	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	2.034		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.900		0.21	0.026
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.994		0.21	0.027
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.757		0.21	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.903		0.21	0.043
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.003		0.21	0.024
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.940		0.21	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.923		0.21	0.020
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.014		0.21	0.035
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.186		2.09	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.992	J	2.09	0.087
27619-97-2	6:2 FTS	2.117		2.09	0.059
39108-34-4	8:2 FTS	2.090		2.09	0.039

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>460-270642-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>480-204551-A-5-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>PA221216A16.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: _____
Extraction Method: <u>SHAKE</u>	Date Extracted: <u>12/15/2022 09:16</u>
Sample wt/vol: <u>5.08(g)</u>	Date Analyzed: <u>12/16/2022 13:47</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20(uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6(mm)</u>
% Moisture: <u>5.7</u> % Solids: <u>94.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>186802</u>	Units: <u>ug/Kg</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	84		50-150
STL01892	13C4 PFHpA	92		50-150
STL00990	13C4 PFOA	91		50-150
STL00991	13C4 PFOS	82		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	60		50-150
STL00993	13C2 PFHxA	86		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	110		50-150
STL00998	13C2 PFDoA	99		50-150
STL01056	13C8 FOSA	79		50-150
STL01893	13C5 PFPeA	82		50-150
STL02116	13C2 PFTeDA	92		50-150
STL02118	d3-NMeFOSAA	114		50-150
STL02117	d5-NEtFOSAA	133		50-150
STL02279	M2-6:2 FTS	113		50-150
STL02280	M2-8:2 FTS	152	*	50-150
STL02337	13C3 PFBS	82		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
 Lims ID: 480-204551-A-5-C MSD
 Client ID: BR-MW-05_20221207_0-0.2-N_MSD
 Sample Type: MSD
 Inject. Date: 16-Dec-2022 13:47:43 ALS Bottle#: 13 Worklist Smp#: 16
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-204551-A-5-C MSD
 Misc. Info.: 200-0053717-016 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-Dec-2022 13:11:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1676

First Level Reviewer: nampitakw

Date: 19-Dec-2022 10:25:35

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	2.085	2.076	0.009	0.603	1894314	0.7460		59.7	5044	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	1564706	1.00		100	163	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.387	0.013	0.694	1973155	1.02		81.6	1959	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.387	0.013	1.000	1748856	1.02		102	30.8	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.400	0.013	0.698	2008844	0.9561		82.2	132589	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.000	1664485	0.8419	Target=2.09	95.2	412	M
298.90 > 99.00	2.413	2.400	0.013	1.000	782657		2.13(1.04-3.13)		102	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	498369	0.9024		96.6	916	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.781	209290	1.13		96.6	81.0	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.737	2.725	0.012	0.792	2185775	1.08		86.3	2072	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.000	1891511	0.99	Target=14.25	99.3	61.8	M
313.00 > 119.00	2.737	2.725	0.012	1.000	140282		13.48(7.12-21.37)		181	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.749	2.737	0.012	0.887	1577533	0.9233	Target=3.04	98.4	358	
349.00 > 99.00	2.749	2.737	0.012	0.887	529677		2.98(1.52-4.56)		348	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.000	322516	0.9673		96.7	1679	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.847	2.835	0.012	0.824	394697	1.10		88.3	1364	
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.010	0.897	1512860	0.9884		83.6	2671	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.099	3.088	0.010	1.000	1316256	0.9116	Target=3.66	100	295	M
399.00 > 99.00	3.099	3.088	0.010	1.000	371440		3.54(1.83-5.49)		151	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.110	3.099	0.011	0.900	2383944	1.14		91.5	3348	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.110	3.099	0.011	1.000	1998933	0.9627	Target=3.97	96.3	75.7	M
363.00 > 169.00	3.110	3.099	0.011	1.000	522355		3.83(1.98-5.95)		832	
77 DONA										
377.00 > 251.00	3.143	3.132	0.011	0.833	4651137	0.9871	Target=3.16	105	1910	M
377.00 > 85.00	3.143	3.132	0.011	0.833	1467527		3.17(1.58-4.73)		1135	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.448	3.439	0.009	0.997	344231	1.34		113	141	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.448	3.439	0.009	1.000	628409	1.01		107	790	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.448	3.439	0.009	0.914	1146624	0.9595	Target=5.14	101	335	M
449.00 > 99.00	3.448	3.439	0.009	0.914	236935		4.84(2.57-7.72)		266	M
D 14 13C4 PFOA										
417.00 > 372.00	3.456	3.448	0.008	1.000	2673840	1.14		91.3	3205	
* 62 13C2 PFOA										
415.00 > 370.00	3.456	3.448	0.008		2829660	1.25			5375	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.456	3.448	0.008	1.000	2314234	1.01	Target=2.79	101	74.9	M
413.00 > 169.00	3.456	3.448	0.008	1.000	806789		2.87(1.40-4.19)		673	M
D 18 13C4 PFOS										
503.00 > 80.00	3.773	3.764	0.009	1.092	1022405	0.9845		82.4	330	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.773	3.764	0.009	1.000	967033	0.9294	Target=5.11	100	226	M
499.00 > 99.00	3.773	3.764	0.009	1.000	215566		4.49(2.55-7.66)		234	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.792	3.783	0.009	1.000	2305650	0.9886	Target=8.55	98.9	123	
463.00 > 169.00	3.792	3.783	0.009	1.000	253007		9.11(4.28-12.83)		701	M
D 19 13C5 PFNA										
468.00 > 423.00	3.792	3.783	0.009	1.097	2810244	1.23		98.7	5537	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.940	3.928	0.012	1.044	2215615	0.9278		99.5	2323	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.076	742072	0.9449	Target=2.53	98.4	272	M
549.00 > 99.00	4.061	4.050	0.011	1.076	295479		2.51(1.27-3.80)		573	M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.081	0.012	1.184	3039232	1.31		105	3841	M

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	4.093	4.081	0.012	1.000	2586642	0.9810	Target=10.26	98.1	197	M
513.00 > 169.00	4.093	4.081	0.012	1.000	256553		10.08(5.13-15.38)		496	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.184	571518	1.82		152	174	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	772743	1.00		105	1927	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1515904	0.9647		96.5	2164	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.201	1880123	0.9884		79.1	2330	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.223	674879	1.43		114	587	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	491802	1.05		105	619	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.148	571359	0.9214	Target=2.51	95.6	296	M
599.00 > 99.00	4.331	4.331	0.0	1.148	218194		2.62(1.25-3.76)		588	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.353	4.353	0.0	1.260	2934528	1.38		110	3649	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	2305158	0.9743	Target=9.88	97.4	258	
563.00 > 169.00	4.353	4.353	0.0	1.000	217382		10.60(4.94-14.82)		613	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	528748	0.9542		95.4	1038	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.263	773699	1.66		133	950	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.180	3368170	0.9150		97.1	3366	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.602	4.591	0.011	1.000	2205891	0.9743	Target=7.77	97.4	176	M
613.00 > 169.00	4.591	4.591	0.0	0.998	301831		7.31(3.89-11.66)		1058	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.591	0.011	1.331	2671298	1.23		98.7	4353	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	571546	1.23		128	1744	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.266	213802	0.8149	Target=0.50	84.2	226	M
699.00 > 99.00	4.776	4.776	0.0	1.266	412249		0.52(0.25-0.76)		1390	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.046	1970779	0.9102	Target=5.21	91.0	187	M
663.00 > 169.00	4.813	4.804	0.009	1.046	369442		5.33(2.60-7.81)		919	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	225737	0.9553	Target=0.89	95.5	1462	
713.00 > 219.00	5.012	5.012	0.0	1.000	249063		0.91(0.44-1.33)		1552	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.450	2157632	1.15		92.2	8275	

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	5.378	5.367	0.011	1.000	1472817	1.01	Target=5.65	101	231	
813.00 > 169.00	5.378	5.367	0.011	1.000	242604		6.07(2.82-8.47)		1279	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.367	0.011	1.556	1950272	0.8426		67.4	3925	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.731	5.722	0.009	1.066	288914	0.2248	Target=6.24	22.5	89.2	M
913.00 > 169.00	5.731	5.722	0.009	1.066	41194		7.01(3.12-9.36)		301	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

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Injection Date: 16-Dec-2022 13:47:43

Instrument ID: LC812

Lims ID: 480-204551-A-5-C MSD

Client ID: BR-MW-05_20221207_0-0.2-N_MSD

Operator ID: lc812tech

ALS Bottle#: 13

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

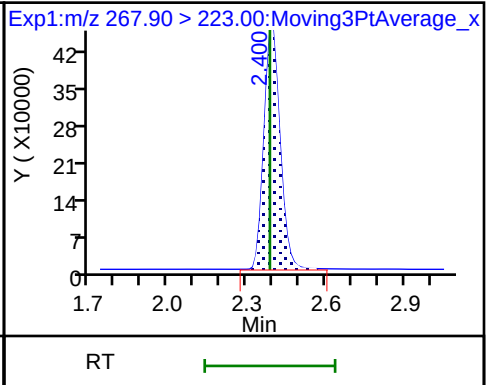
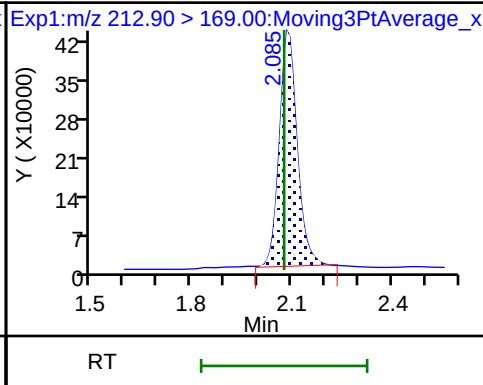
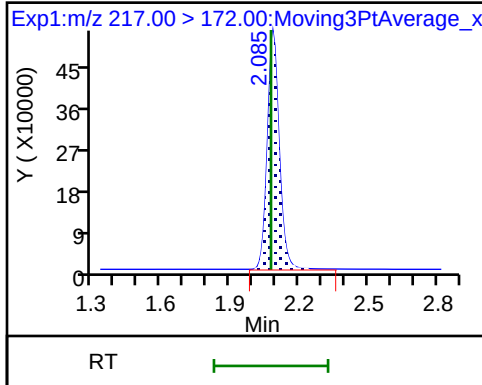
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

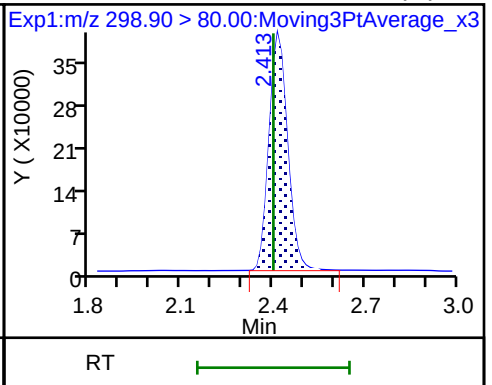
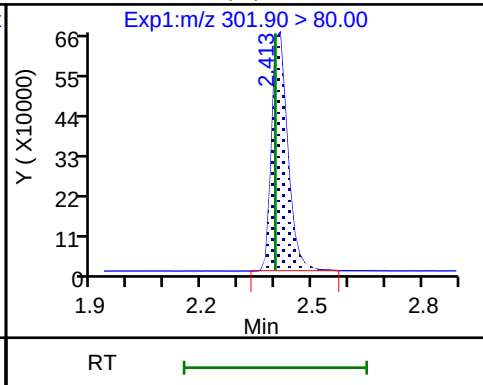
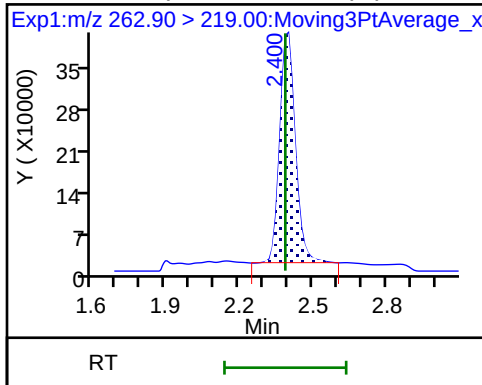
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

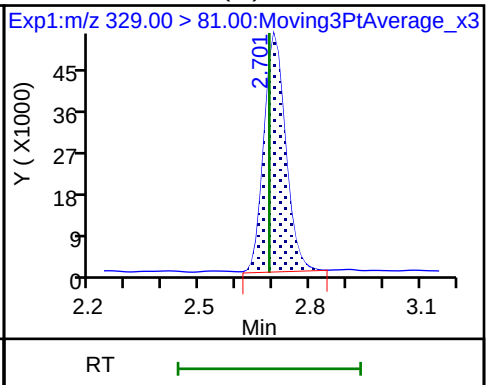
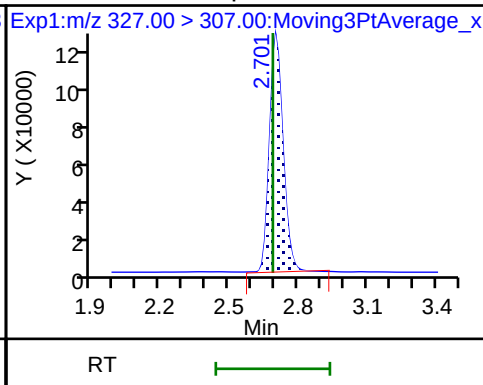
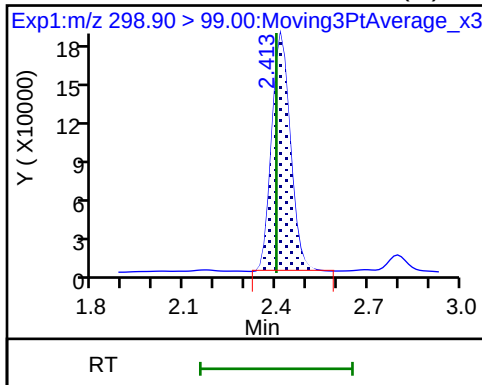
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo

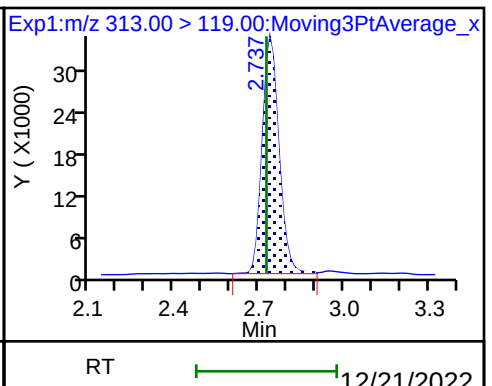
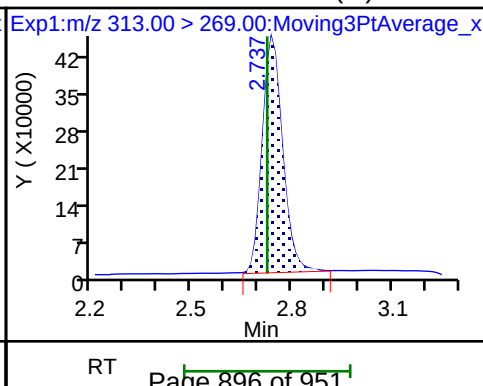
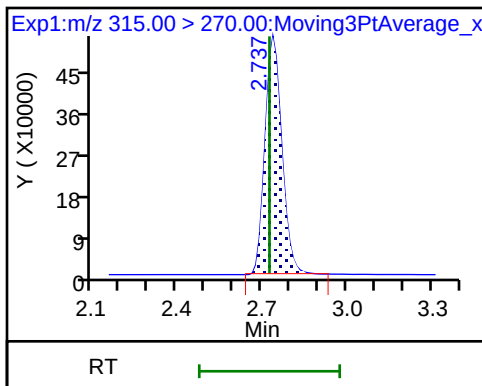
D 60 M2-4:2 FTS (M)

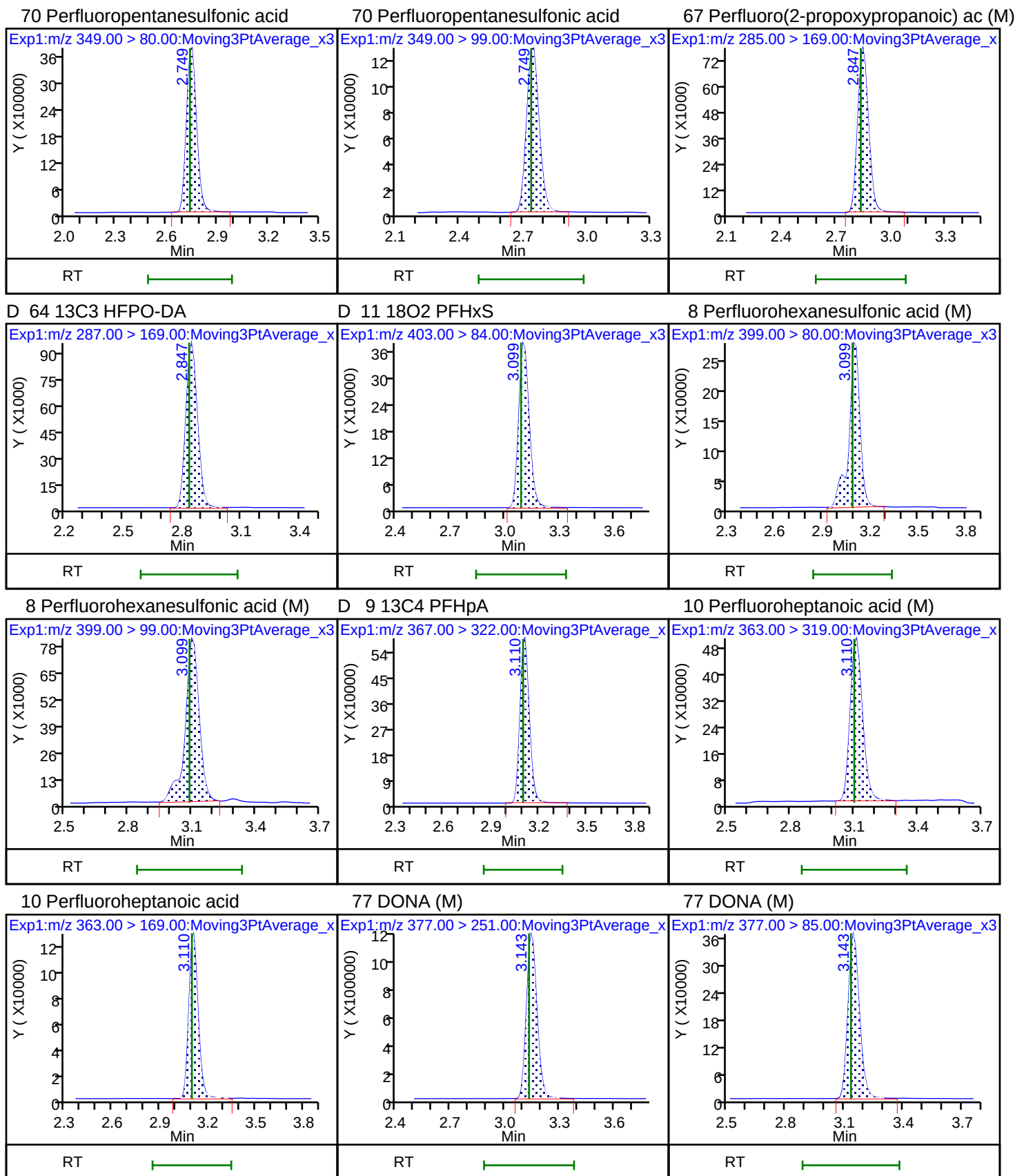


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

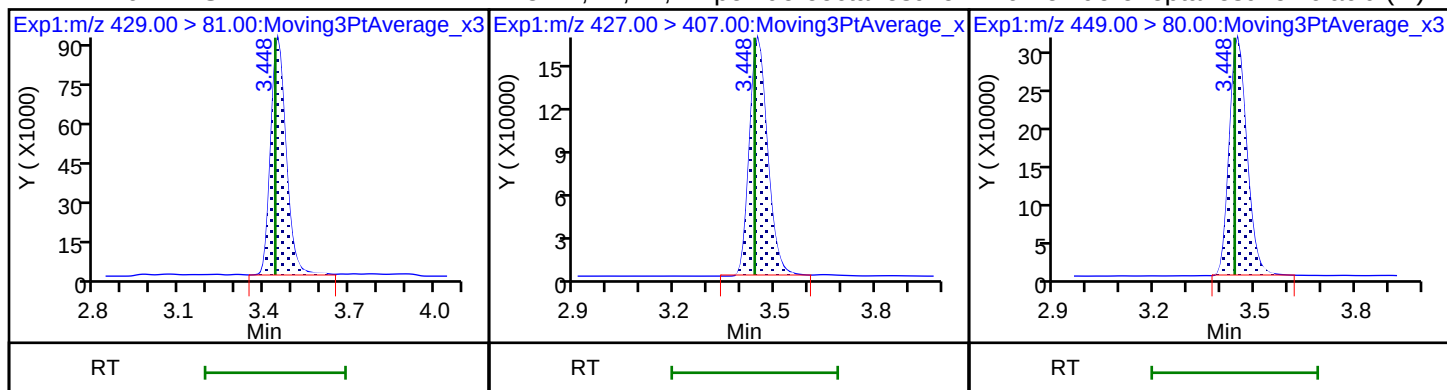




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

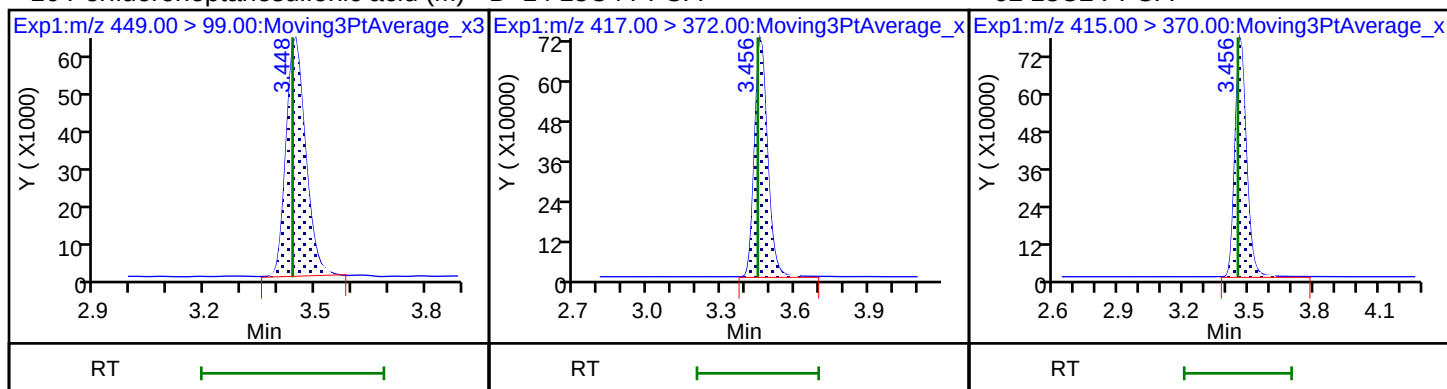
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

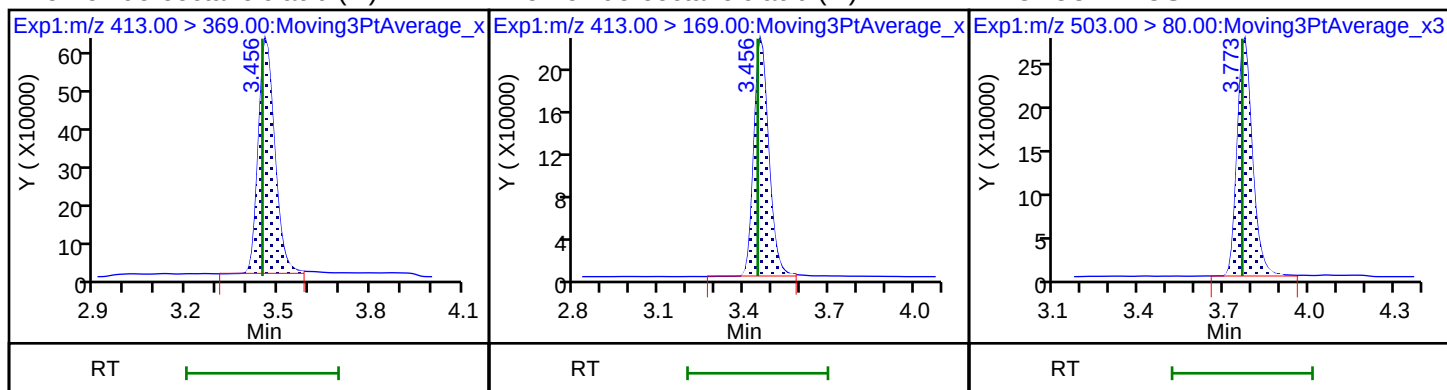
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

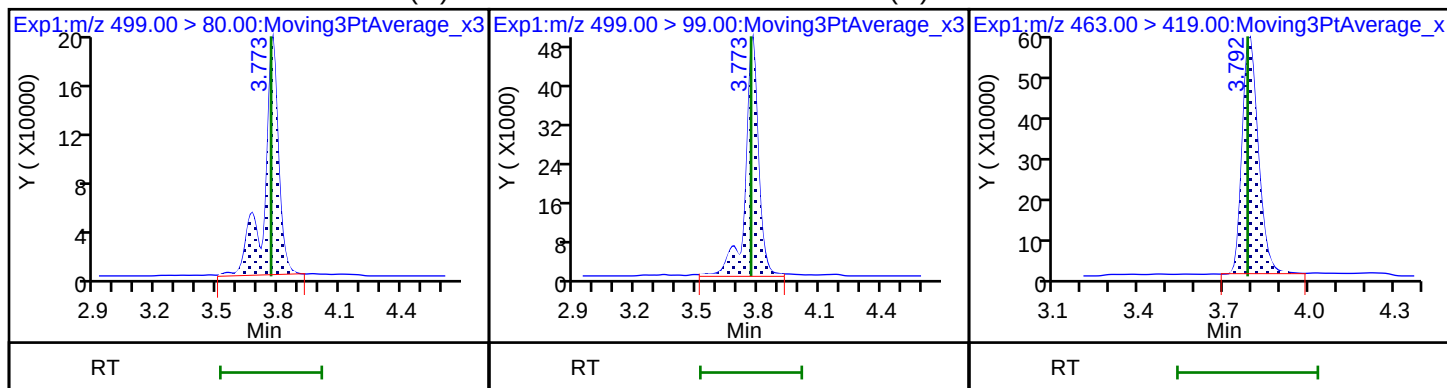
D 18 13C4 PFOS

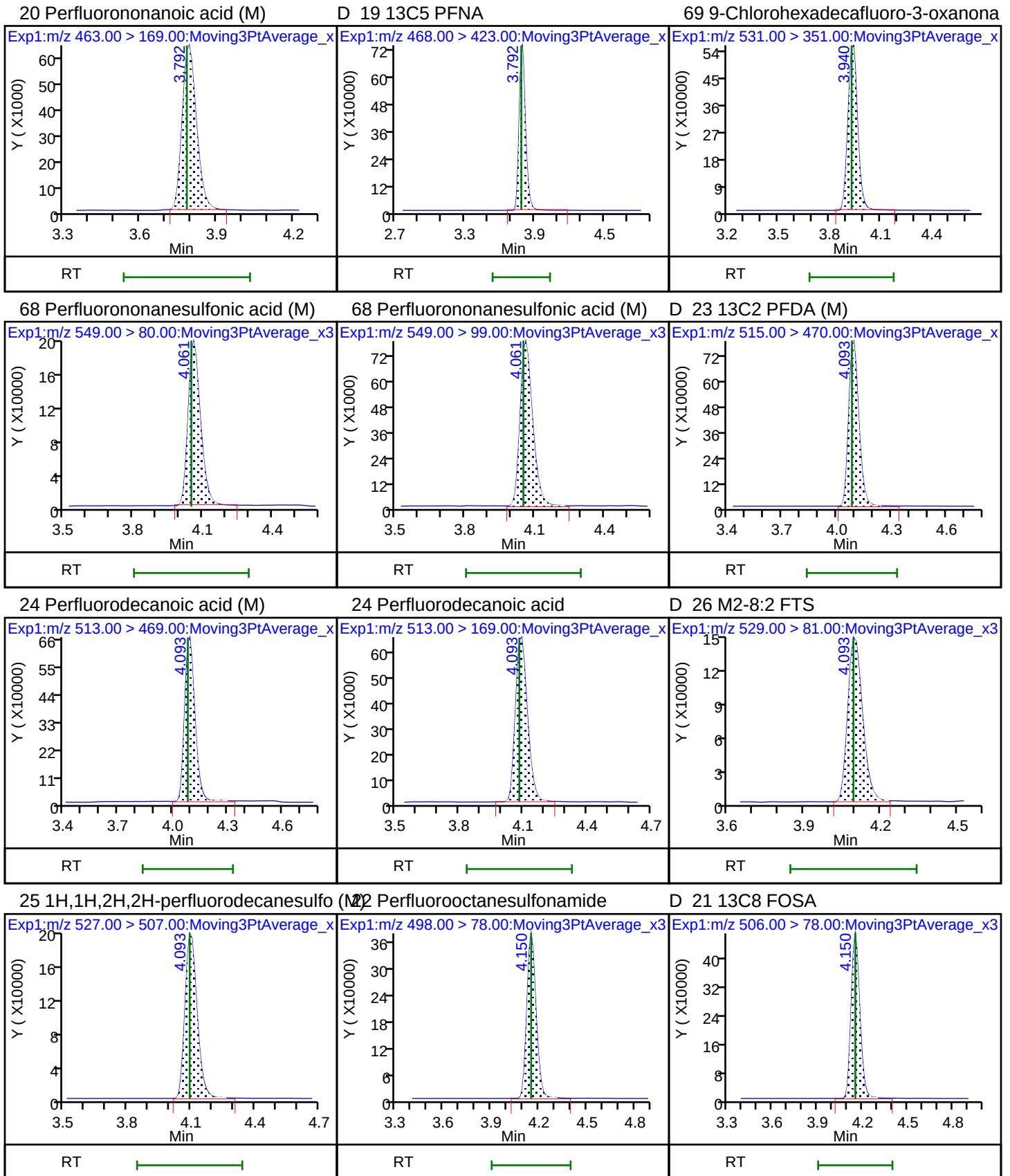


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

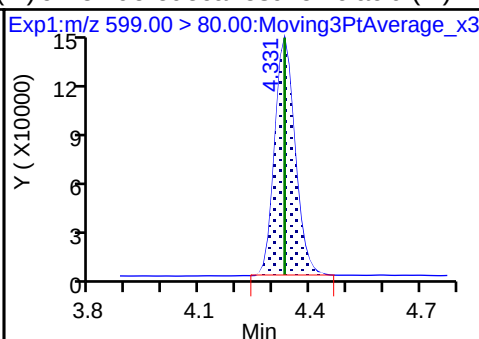
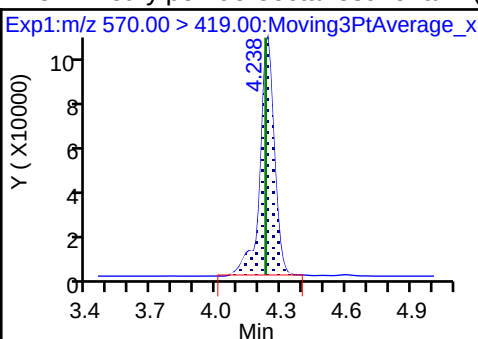
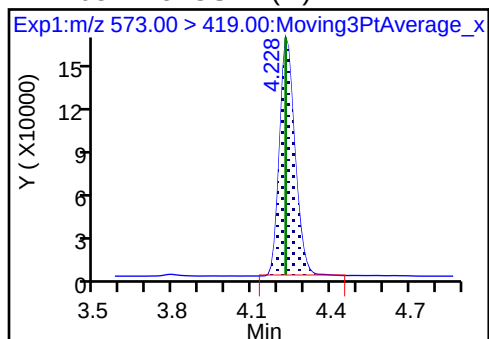




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

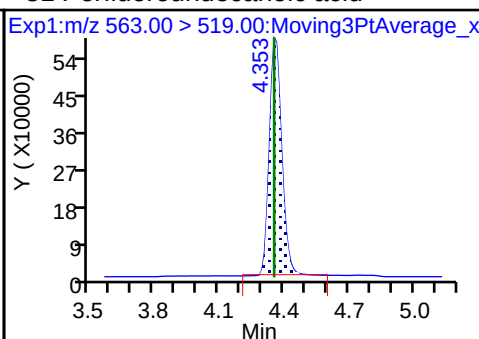
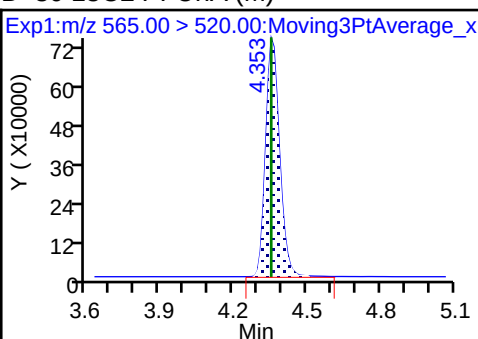
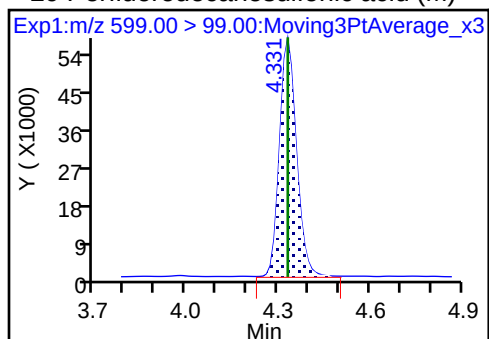
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

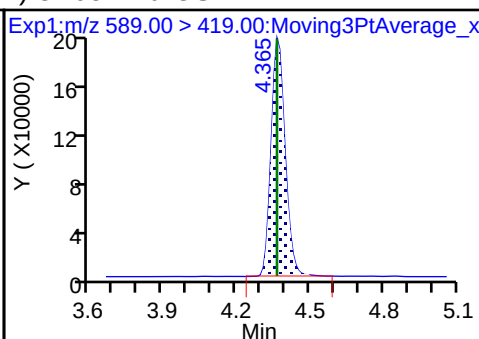
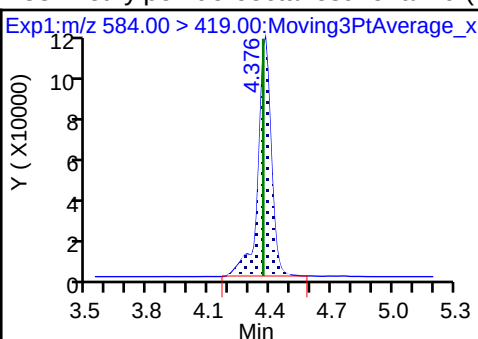
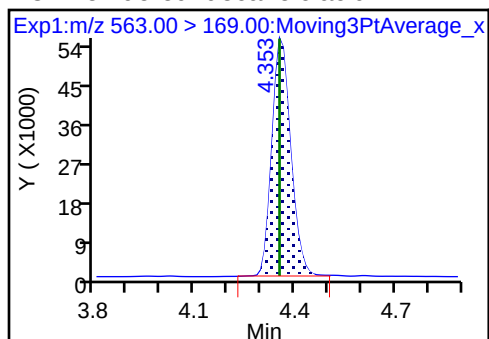
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

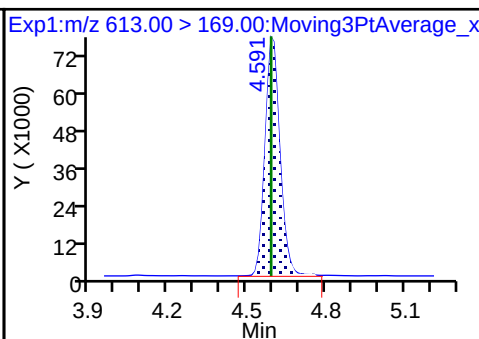
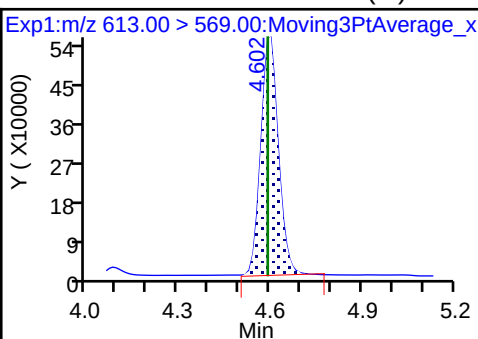
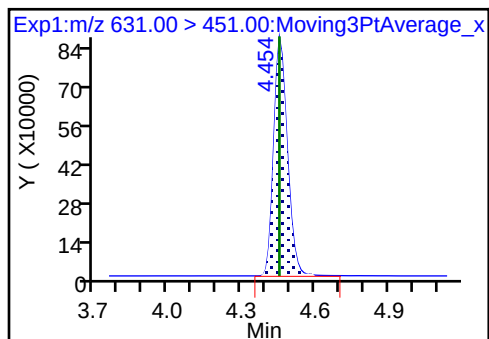
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

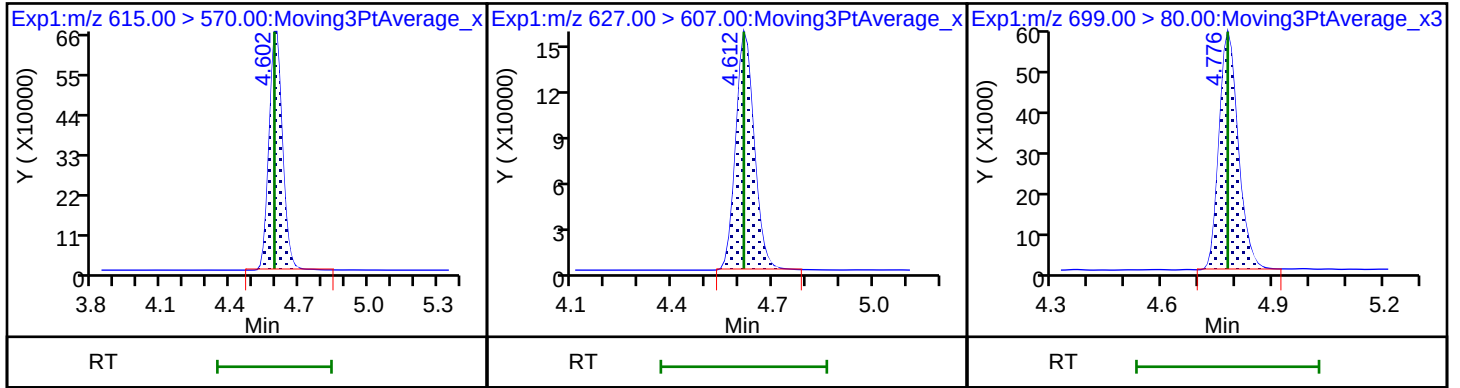
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

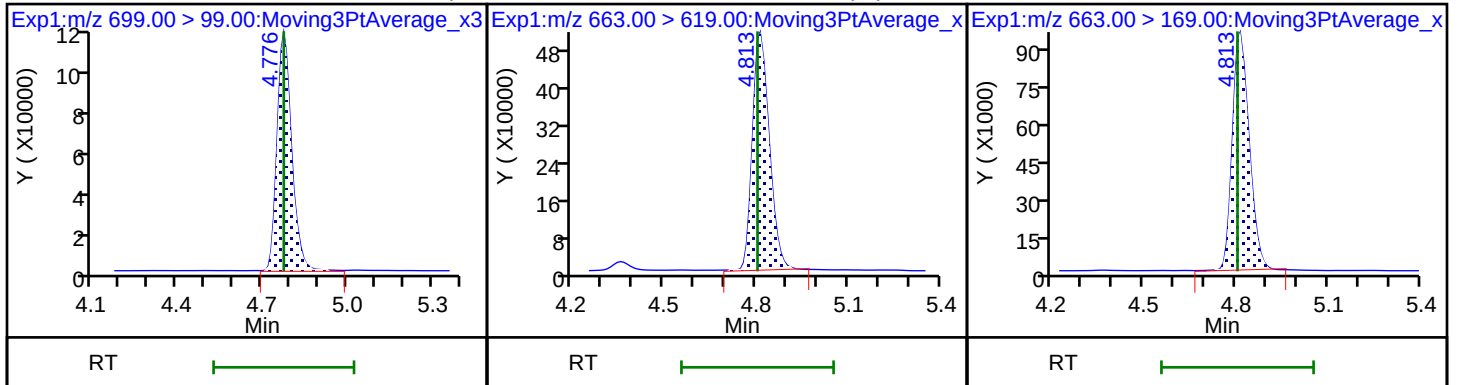
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75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

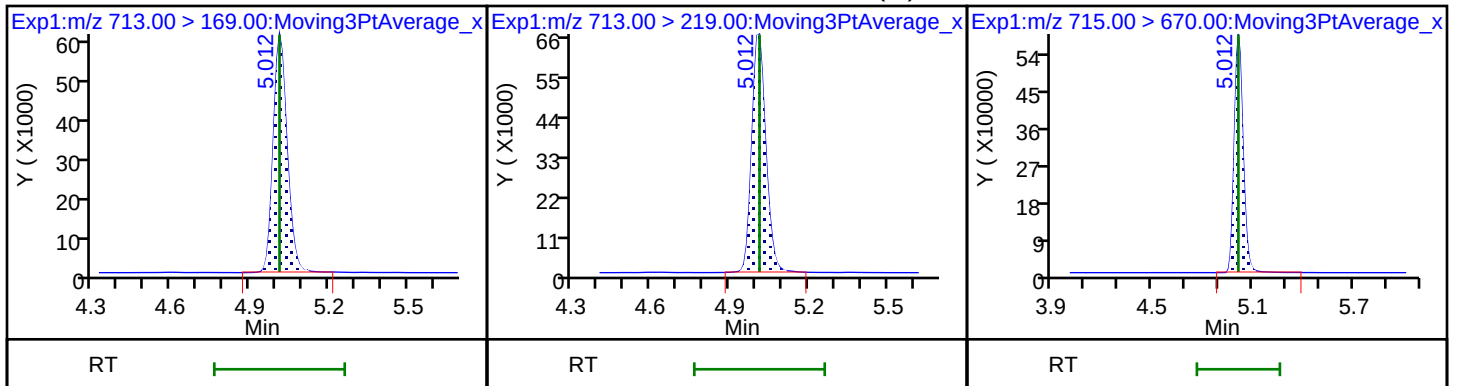
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

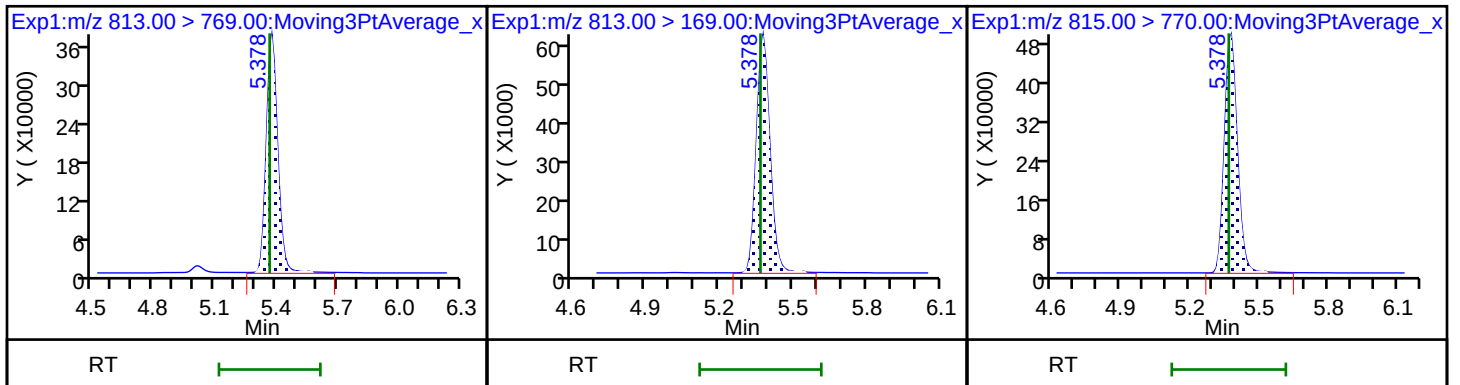
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

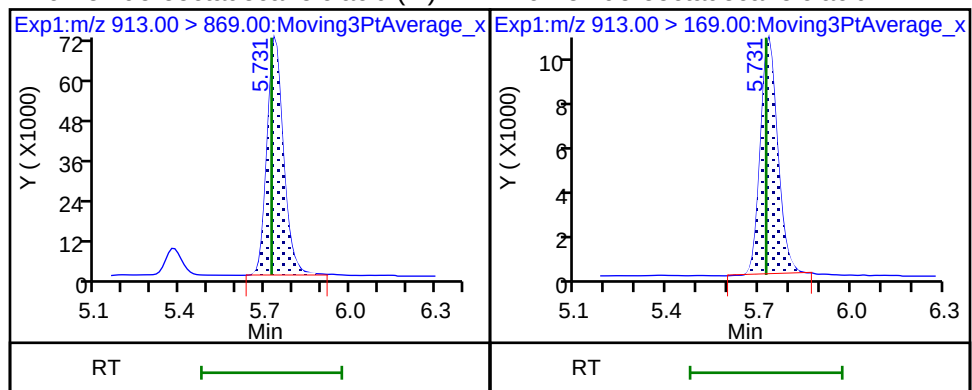
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



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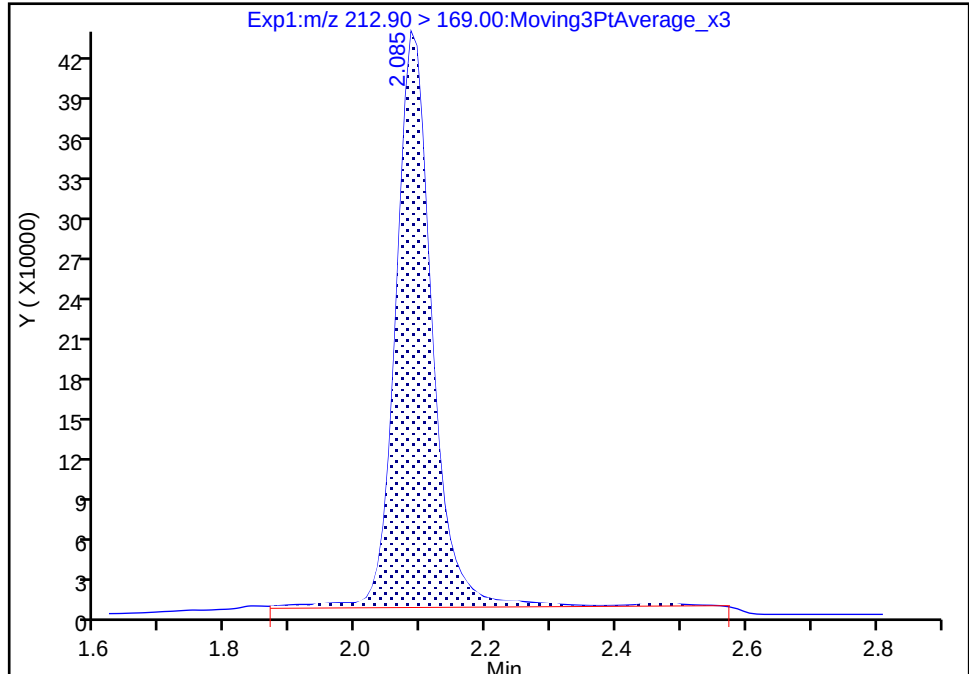
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Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

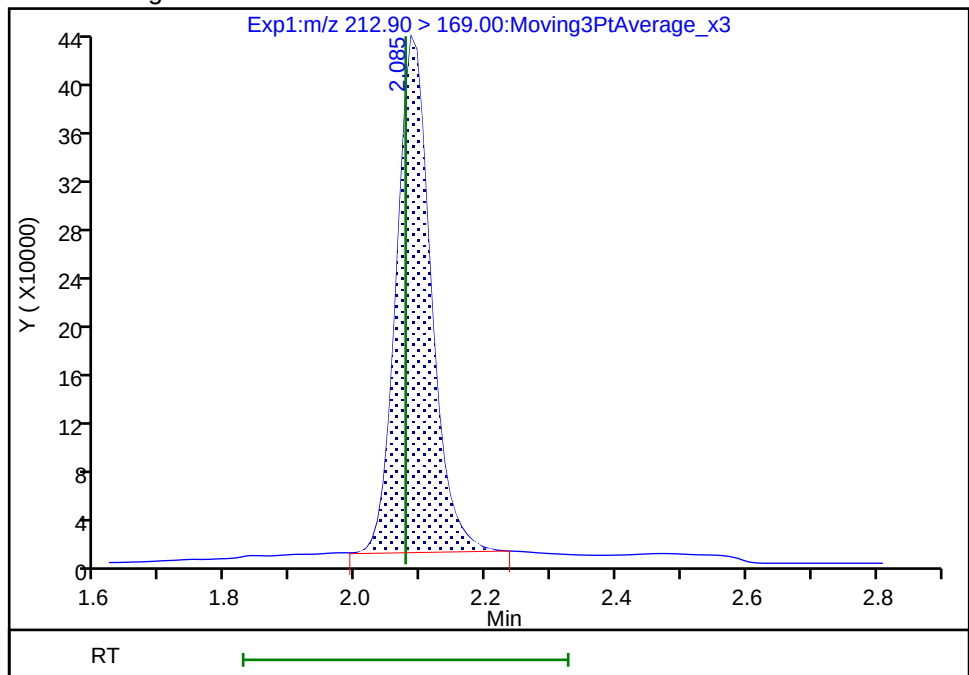
RT: 2.08
Area: 1714431
Amount: 1.097076
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1564706
Amount: 1.001266
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

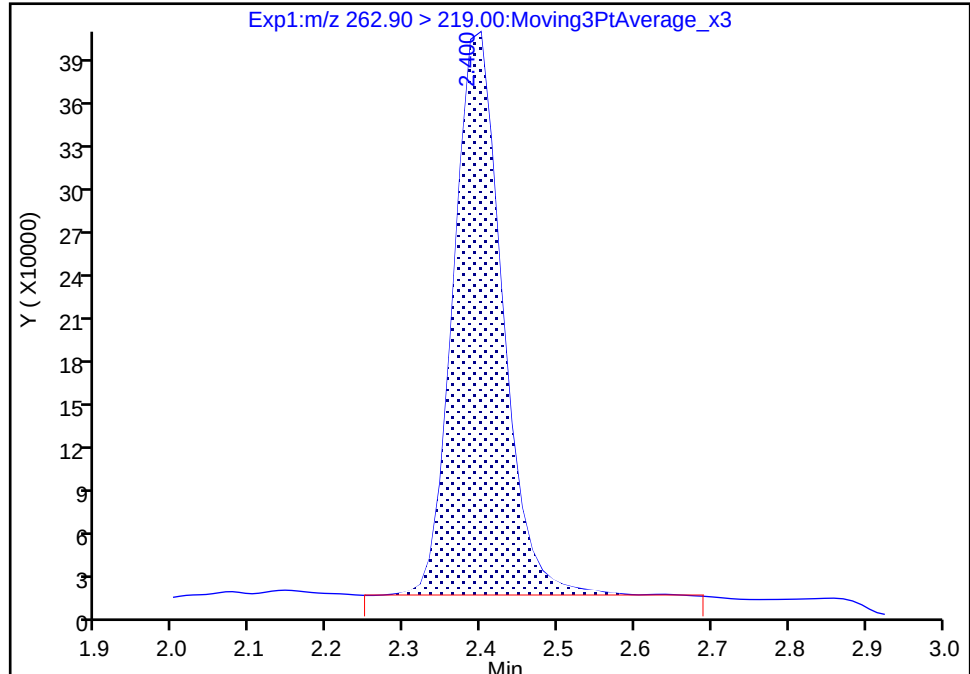
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

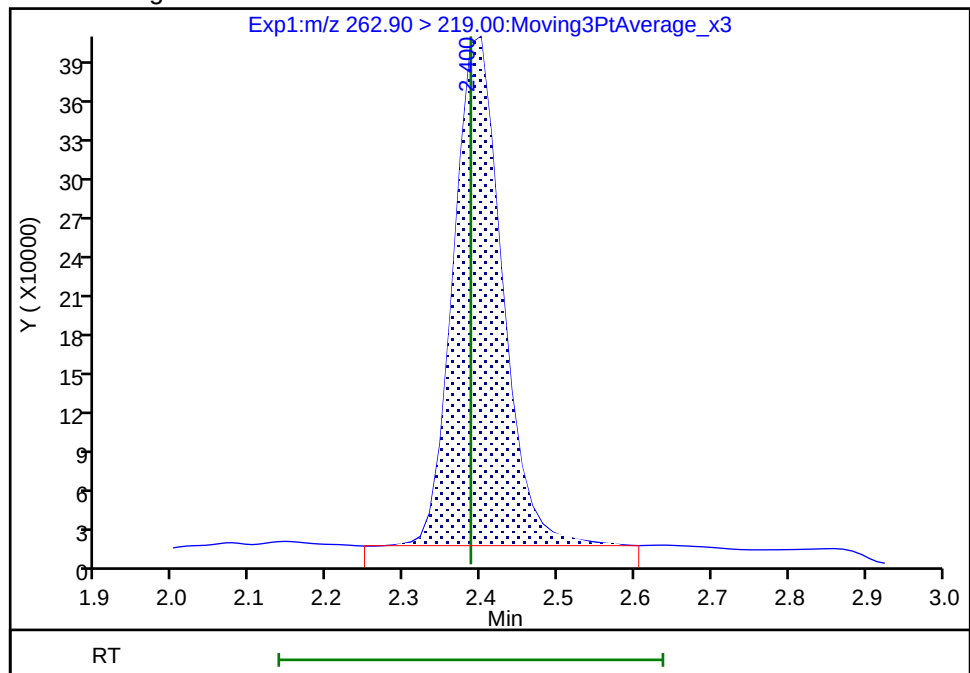
RT: 2.40
Area: 1761856
Amount: 1.024146
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1748856
Amount: 1.016590
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

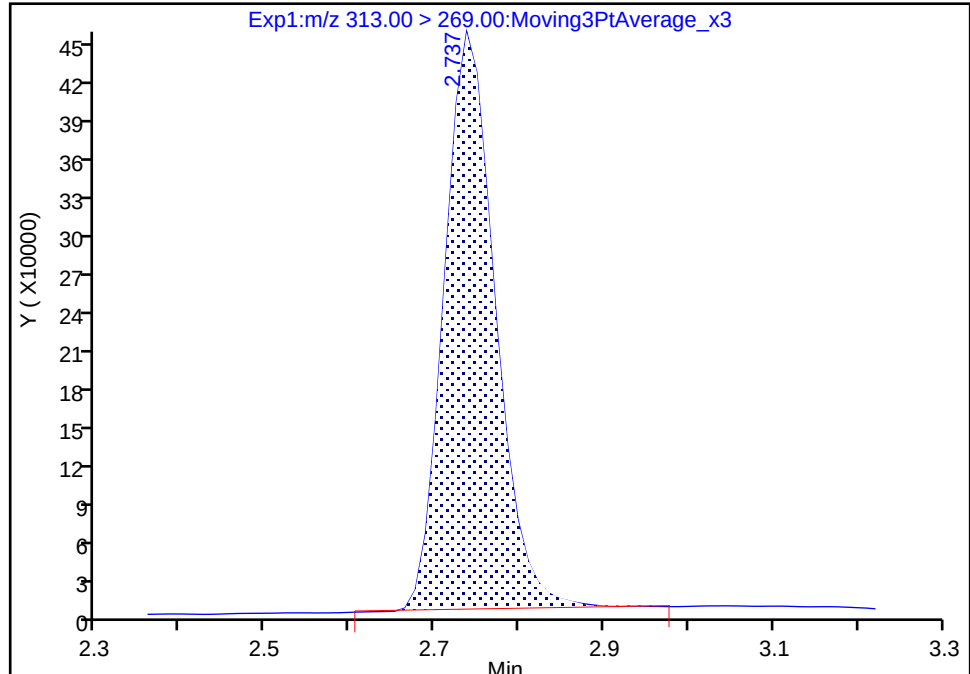
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Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

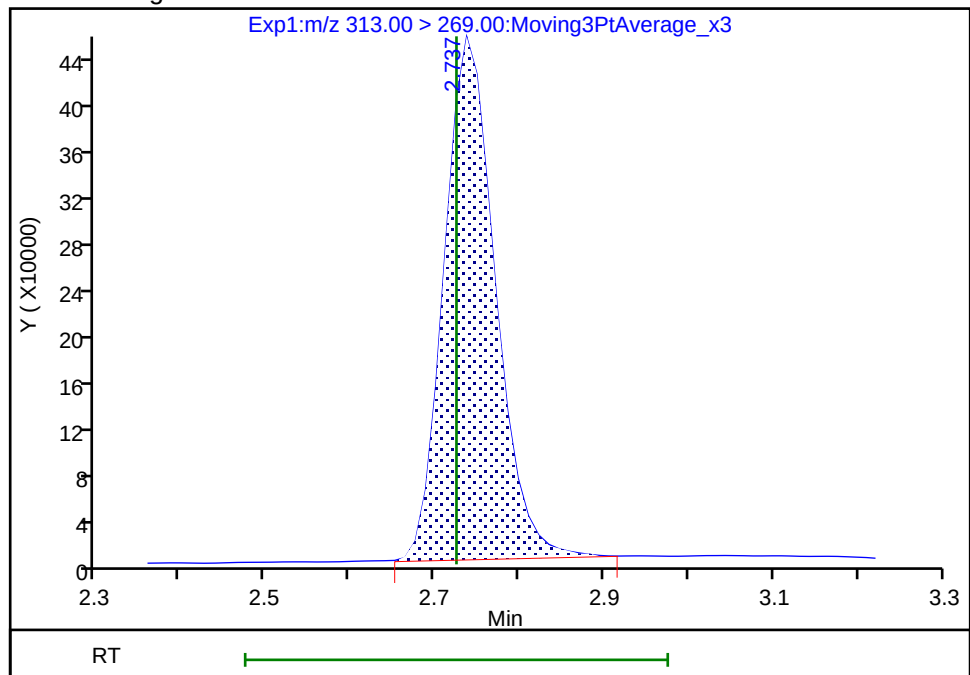
RT: 2.74
Area: 1902201
Amount: 0.998366
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1891511
Amount: 0.992755
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

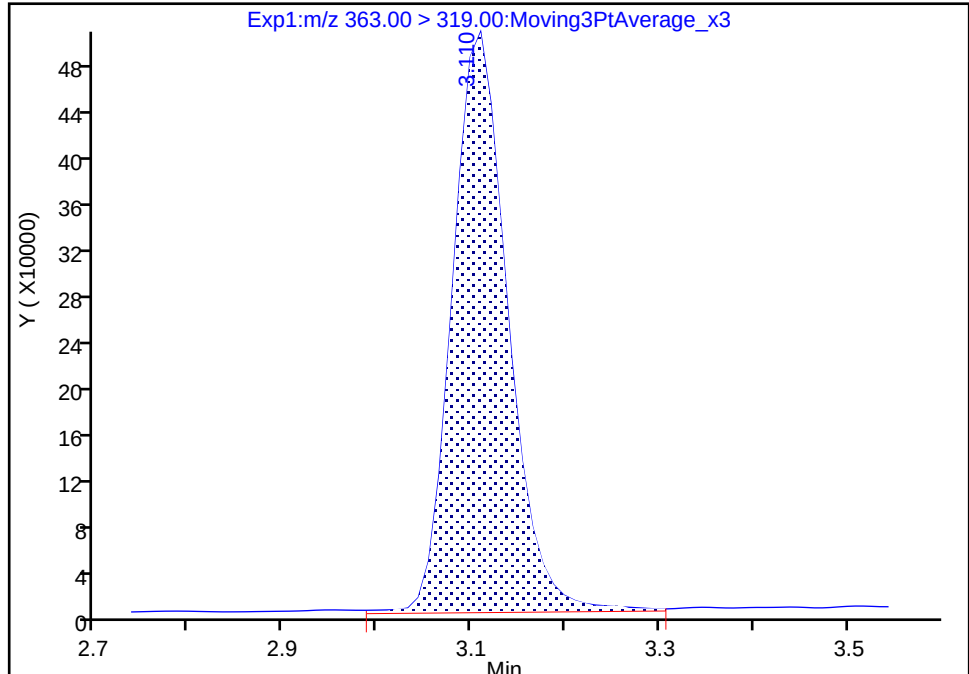
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Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

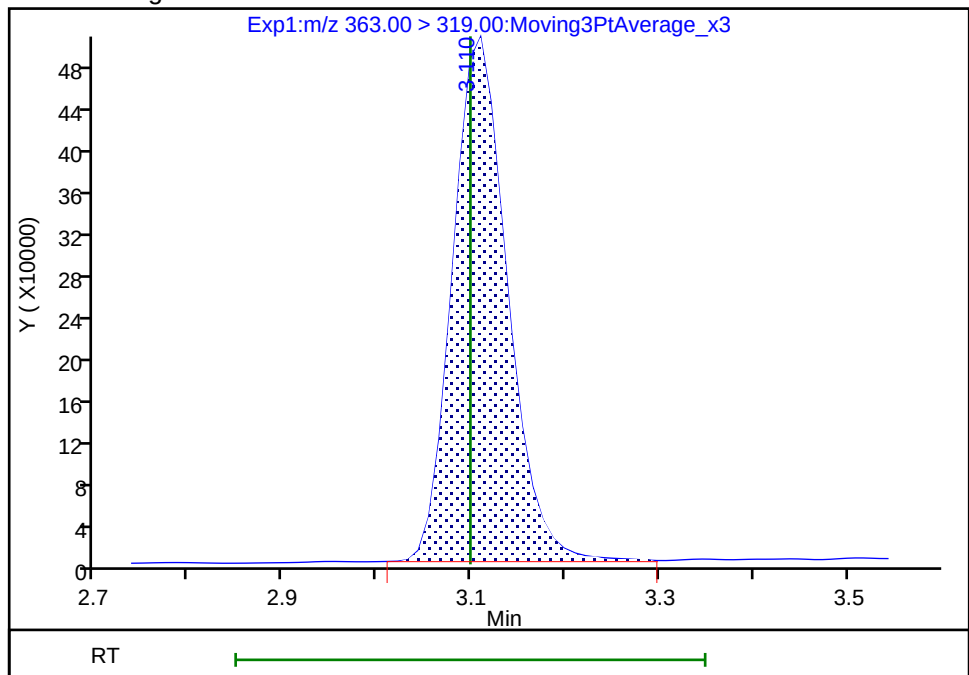
RT: 3.11
Area: 2060399
Amount: 0.992257
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 1998933
Amount: 0.962656
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:22:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

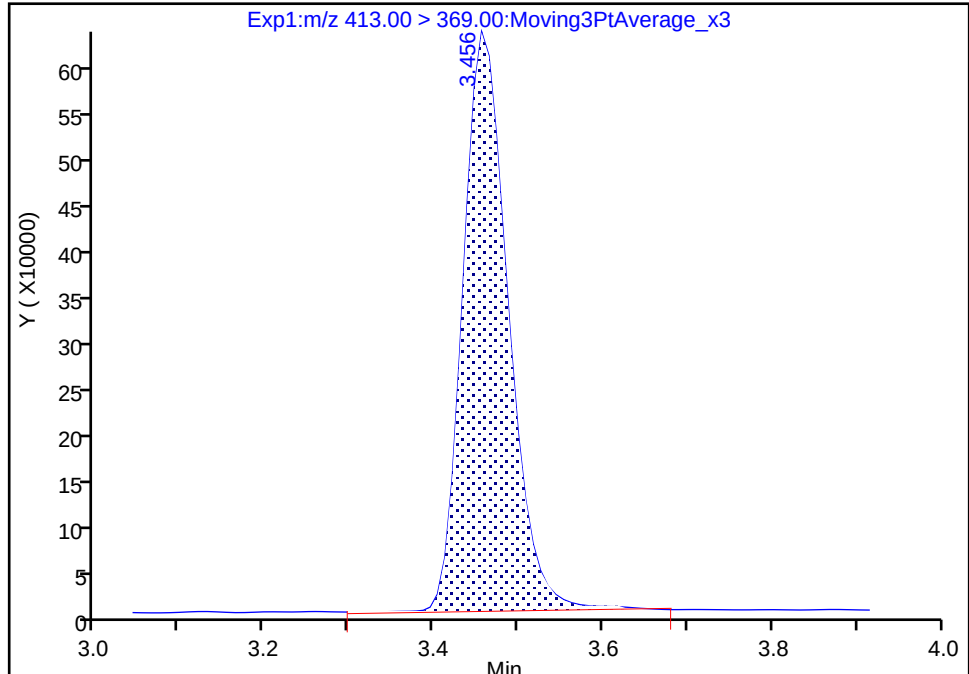
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

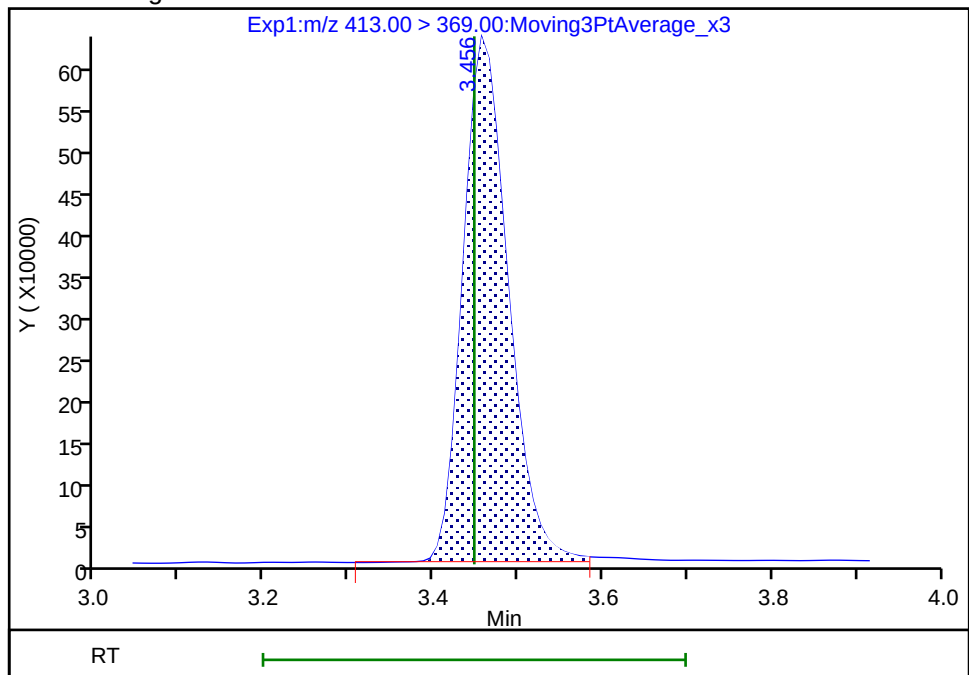
RT: 3.46
Area: 2356266
Amount: 1.030400
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 2314234
Amount: 1.012020
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:23:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

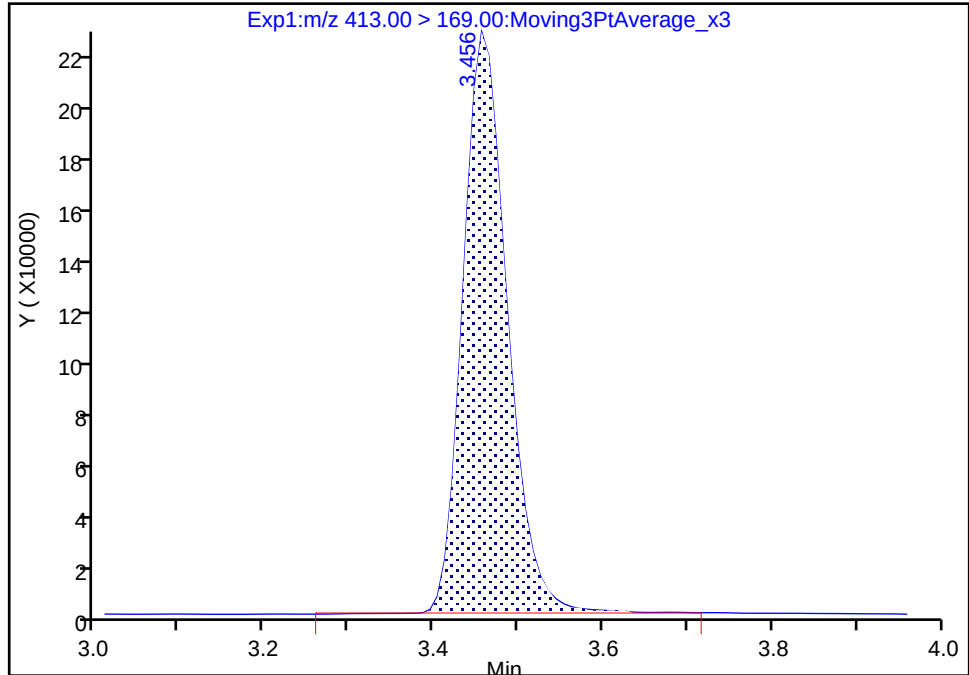
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

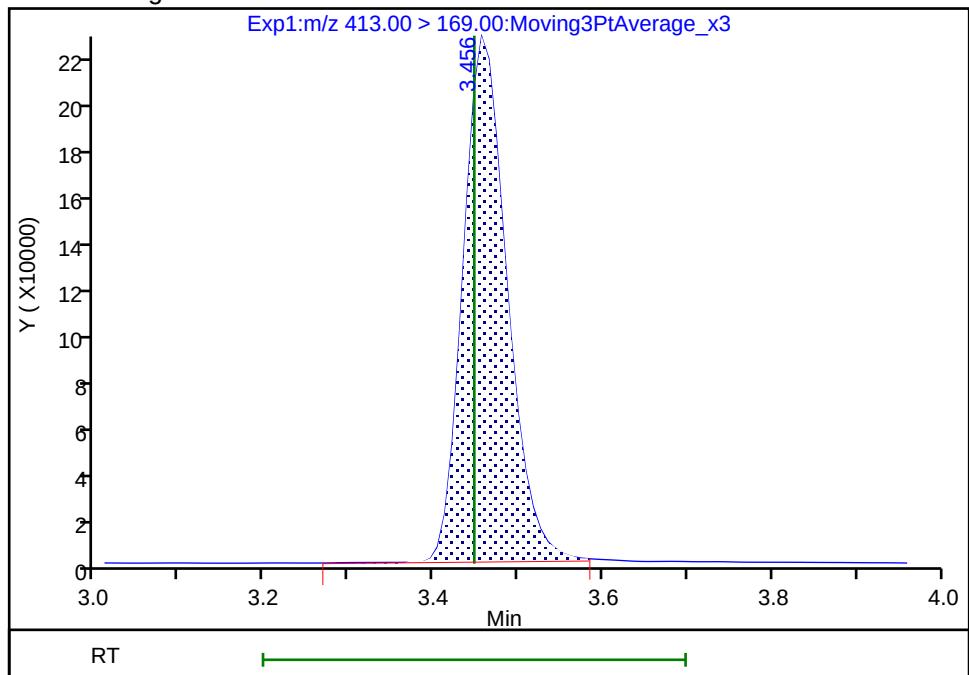
RT: 3.46
Area: 811670
Amount: 1.030400
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 806789
Amount: 1.012020
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:23:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

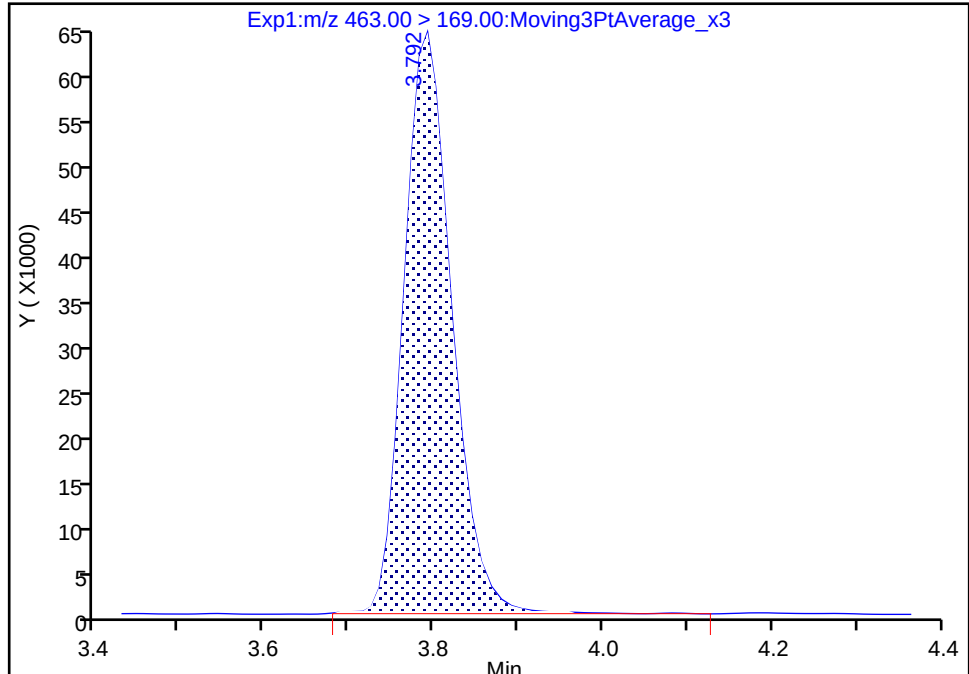
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Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

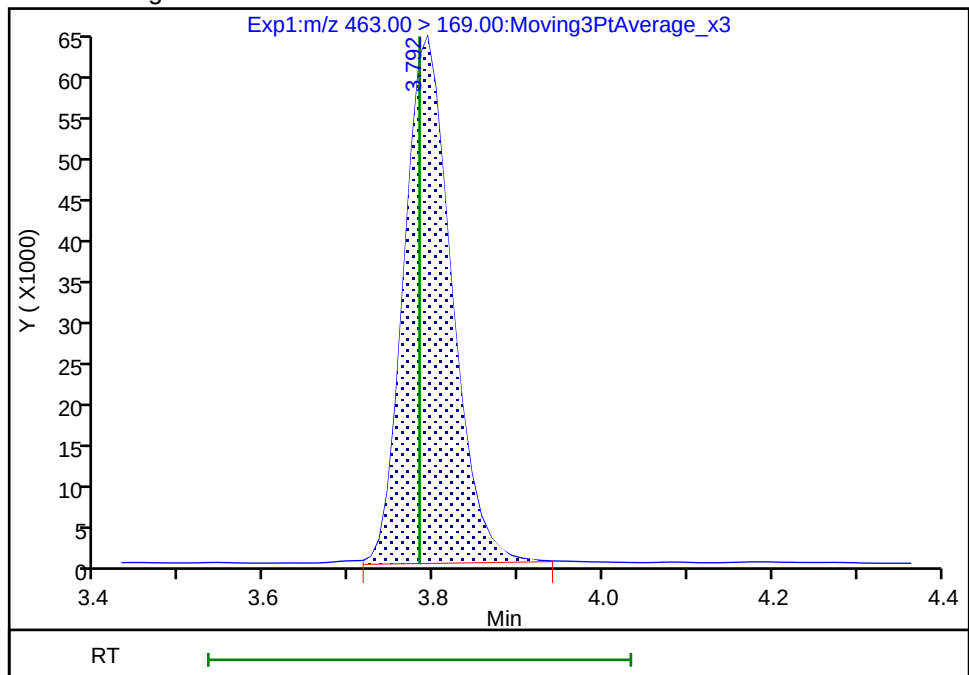
RT: 3.79
Area: 253028
Amount: 0.988626
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 253007
Amount: 0.988626
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:24:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

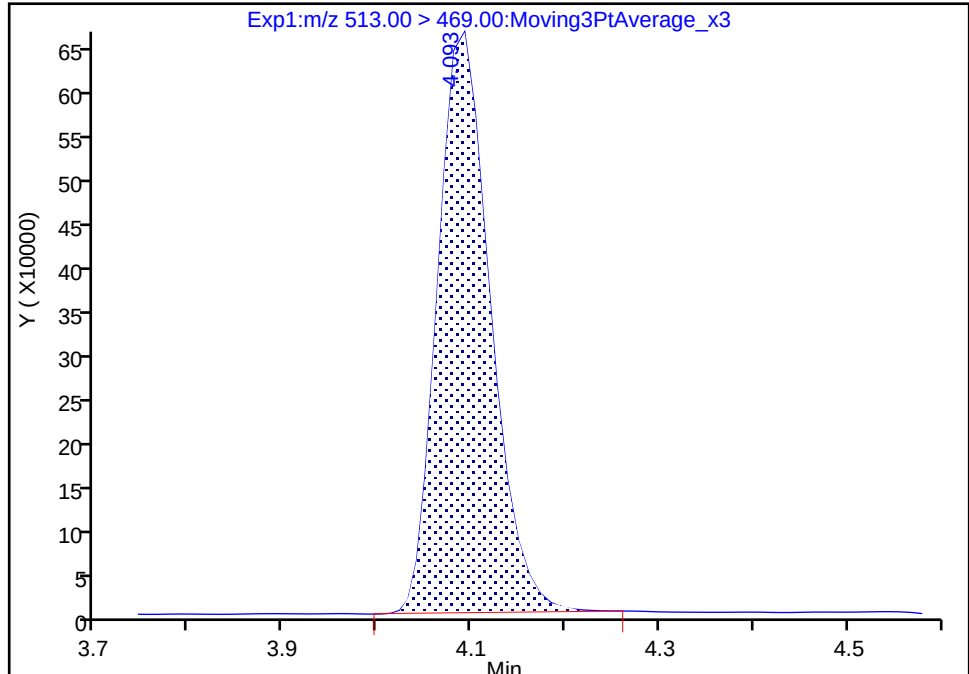
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

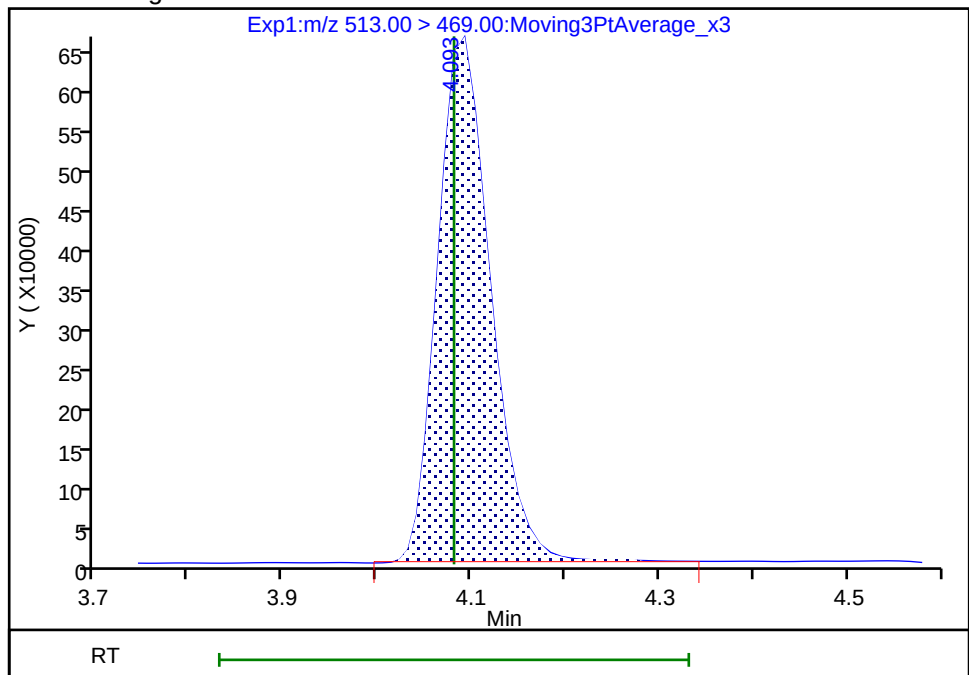
RT: 4.09
Area: 2567497
Amount: 0.973735
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 2586642
Amount: 0.980996
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:24:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

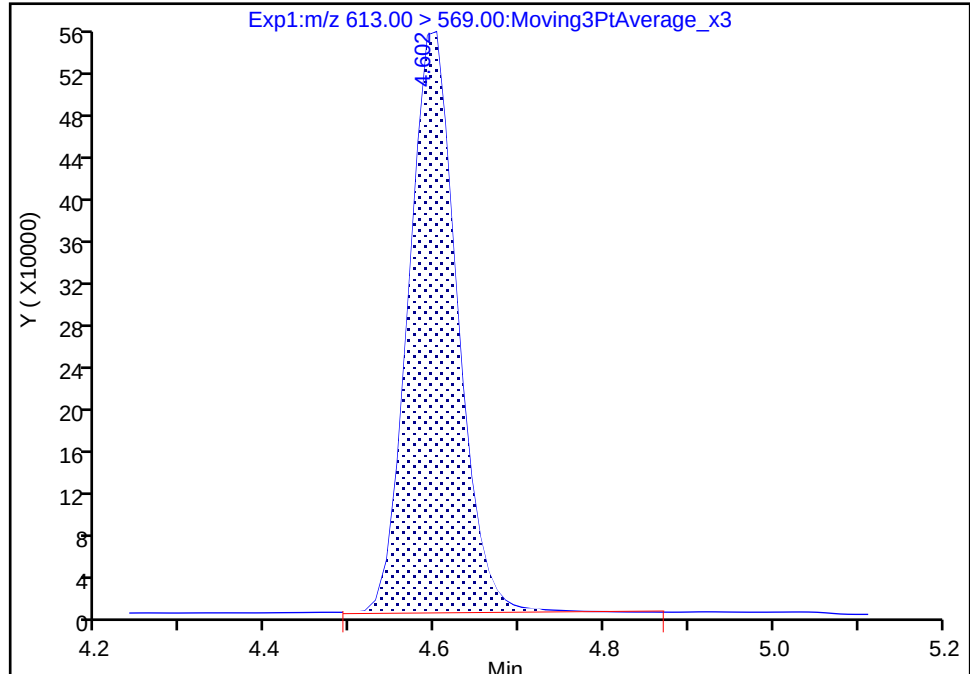
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Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

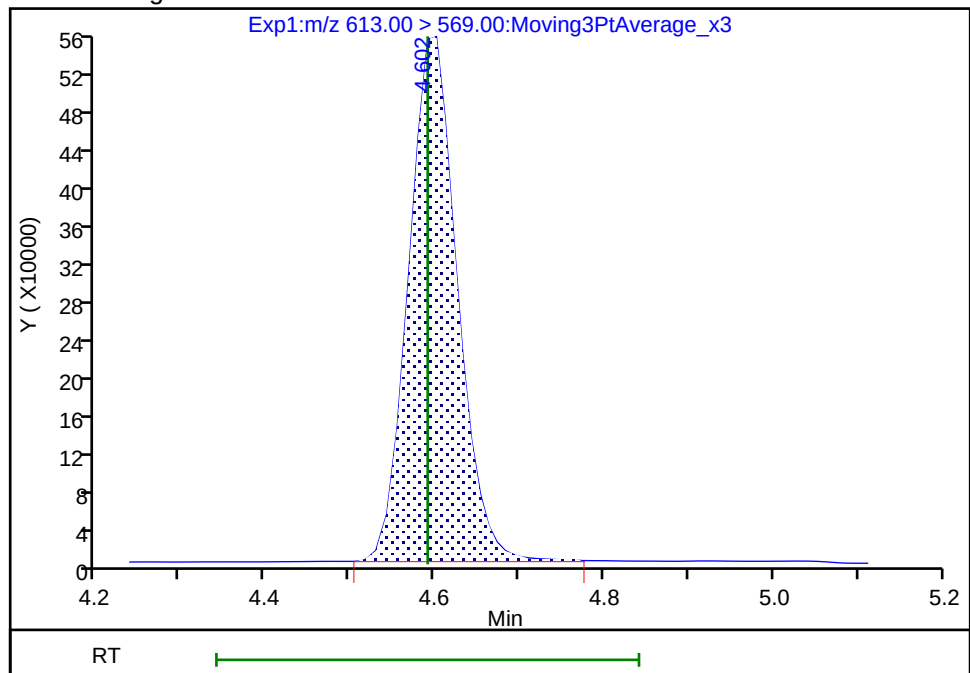
RT: 4.60
Area: 2220504
Amount: 0.980741
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 2205891
Amount: 0.974286
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:25:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

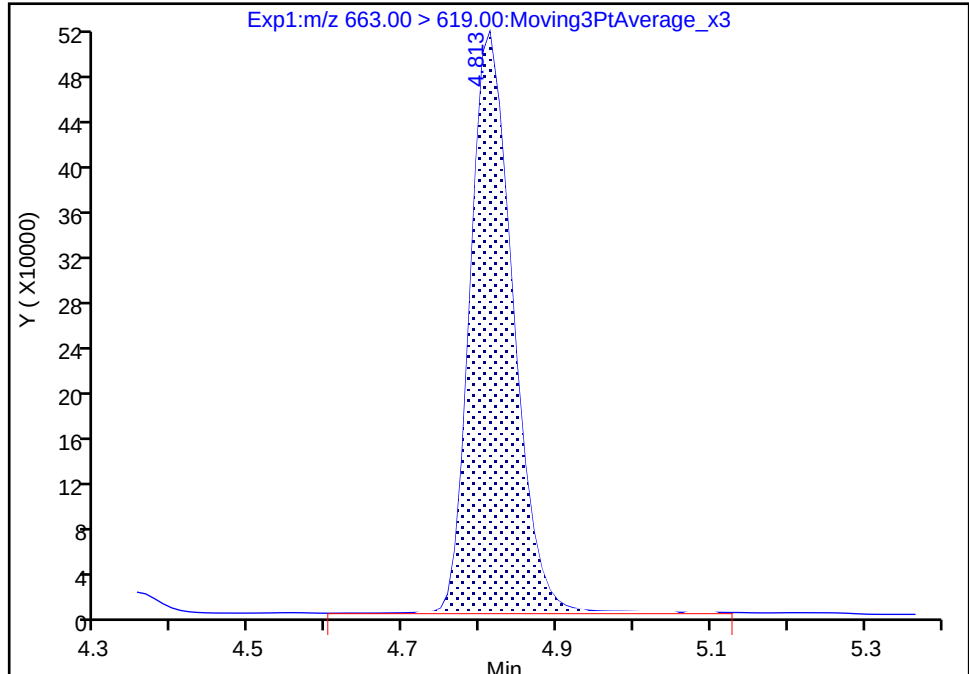
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

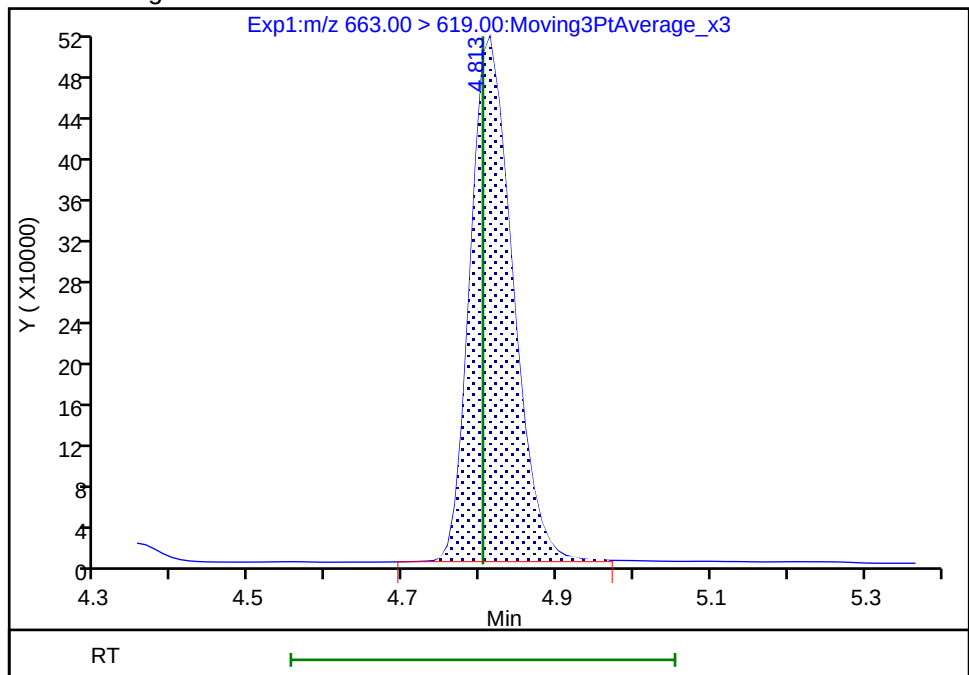
RT: 4.81
Area: 1994465
Amount: 0.921100
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1970779
Amount: 0.910161
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:25:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

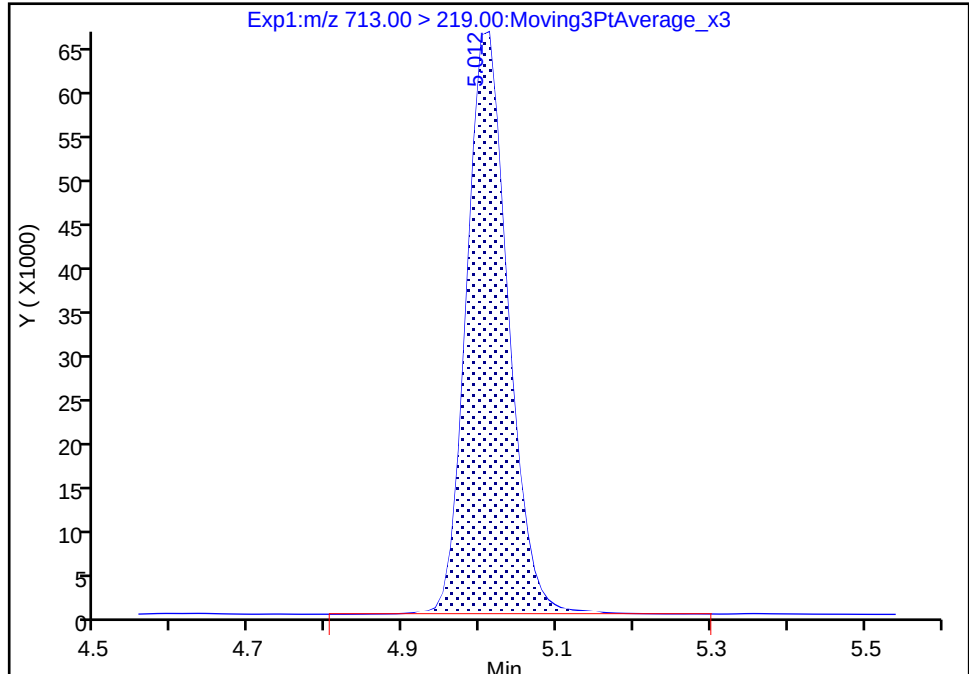
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Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

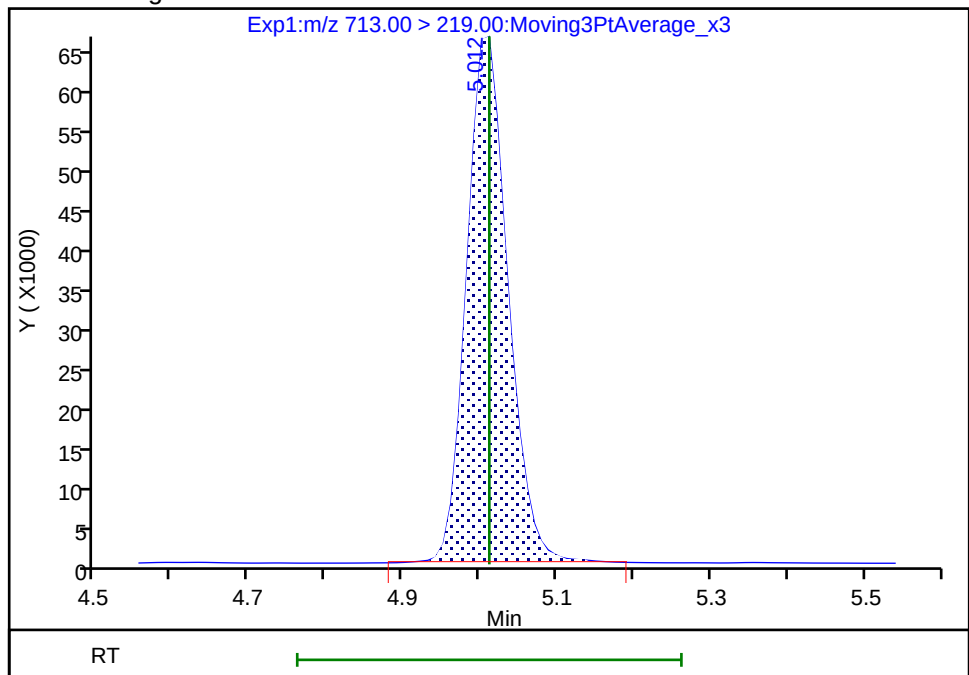
RT: 5.01
Area: 250274
Amount: 0.955268
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 249063
Amount: 0.955268
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:25:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

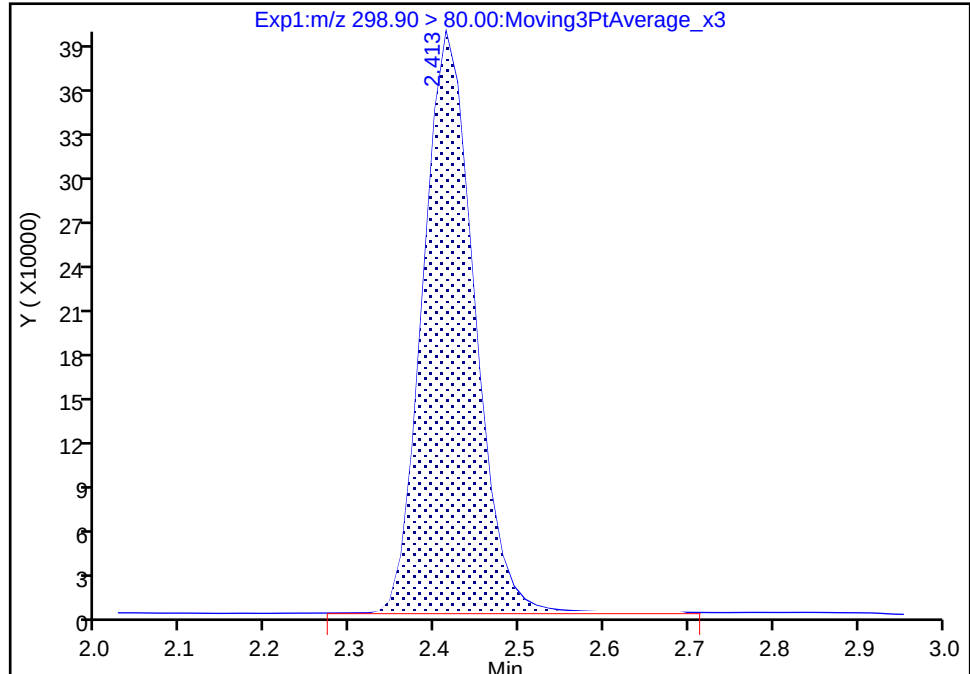
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

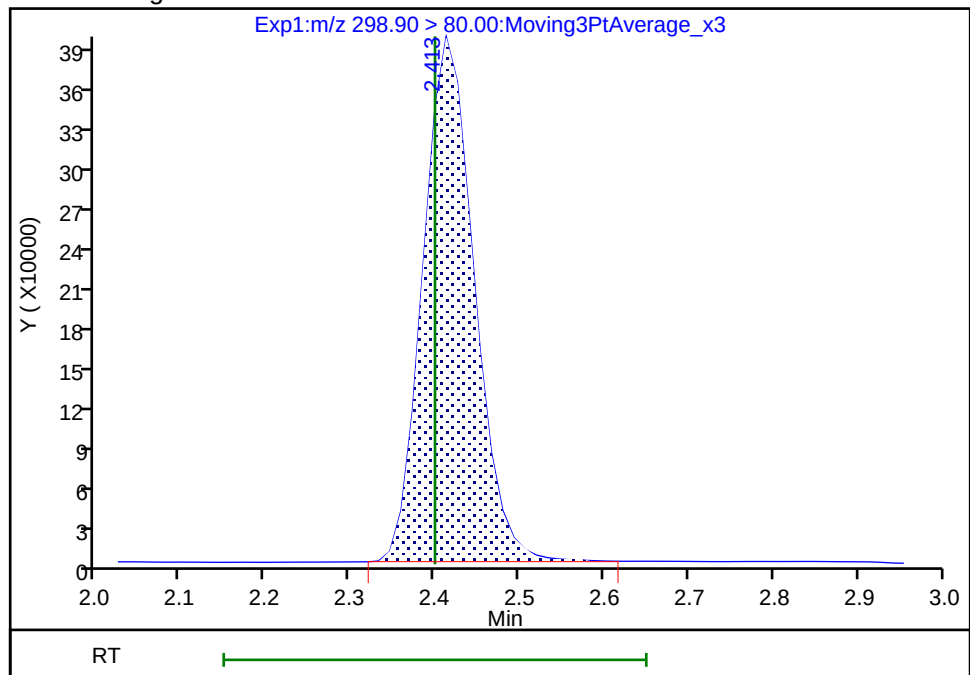
RT: 2.41
Area: 1669722
Amount: 0.844565
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1664485
Amount: 0.841916
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

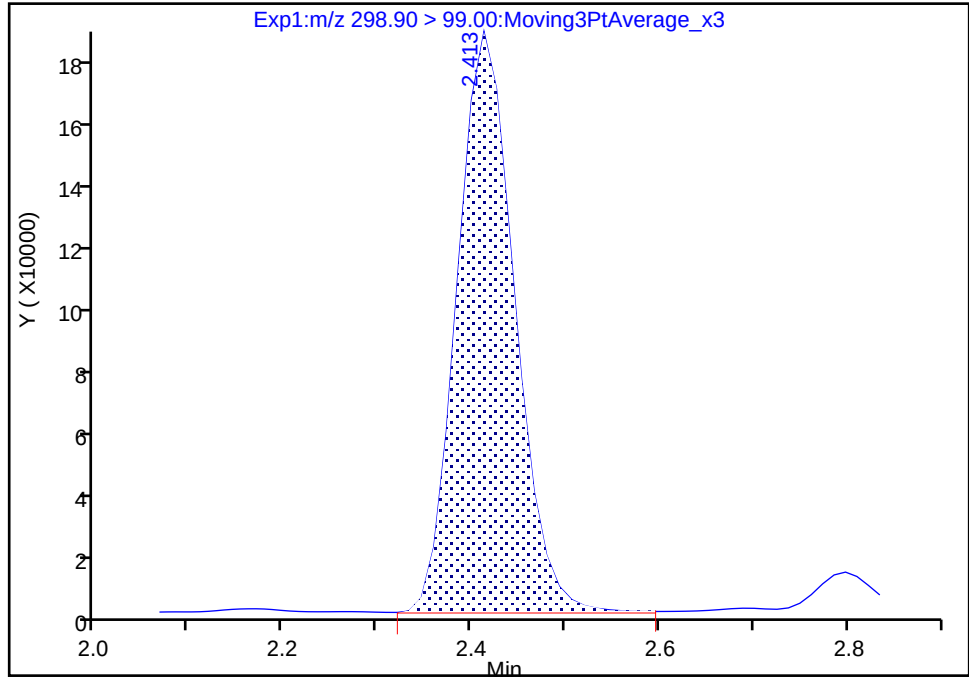
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

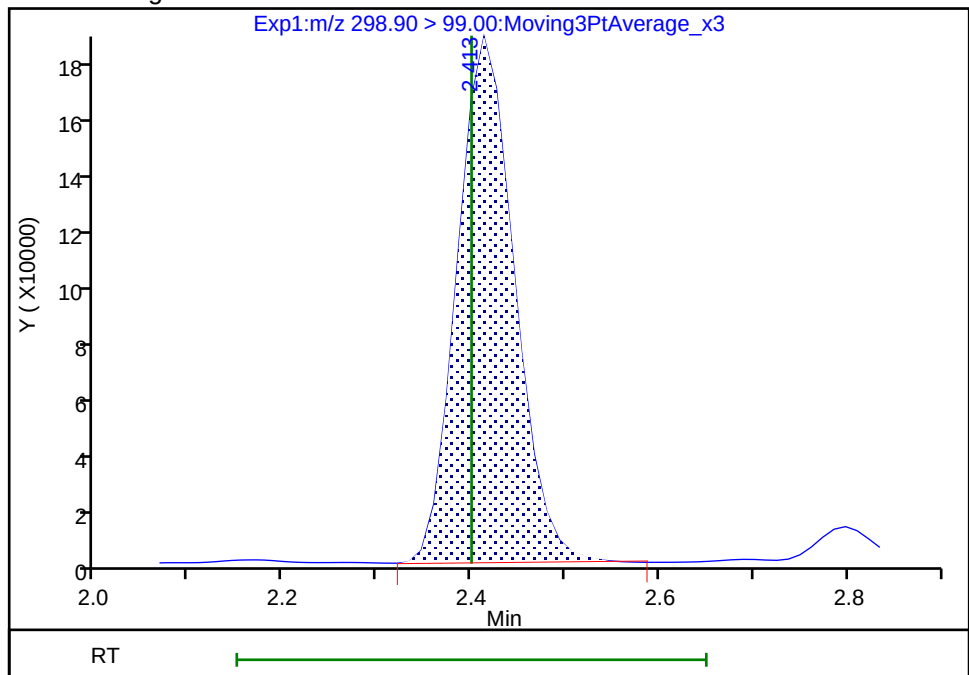
RT: 2.41
Area: 795139
Amount: 0.844565
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 782657
Amount: 0.841916
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

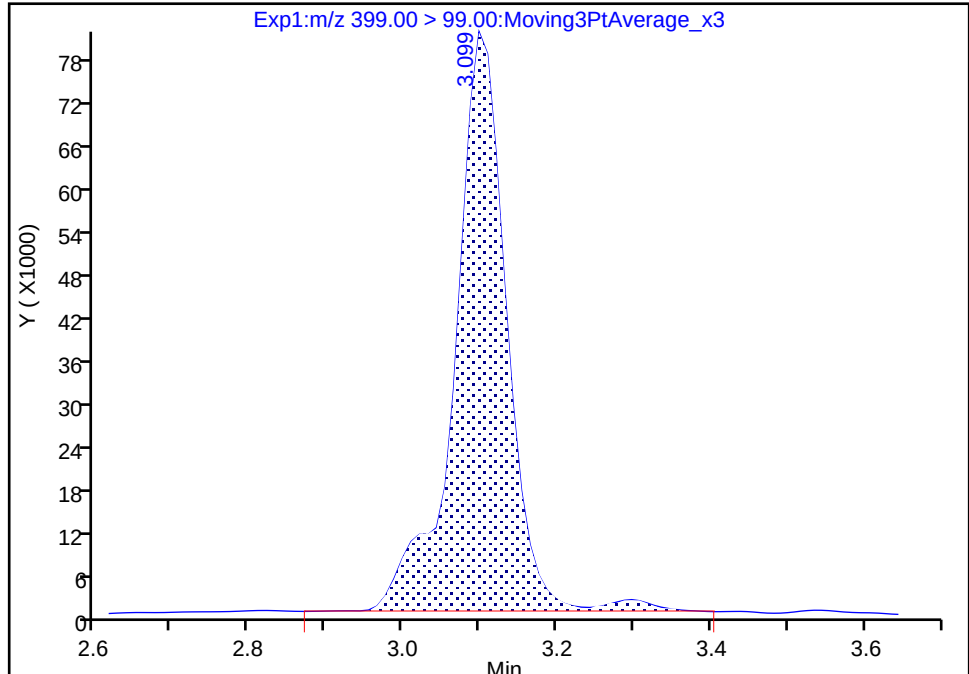
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

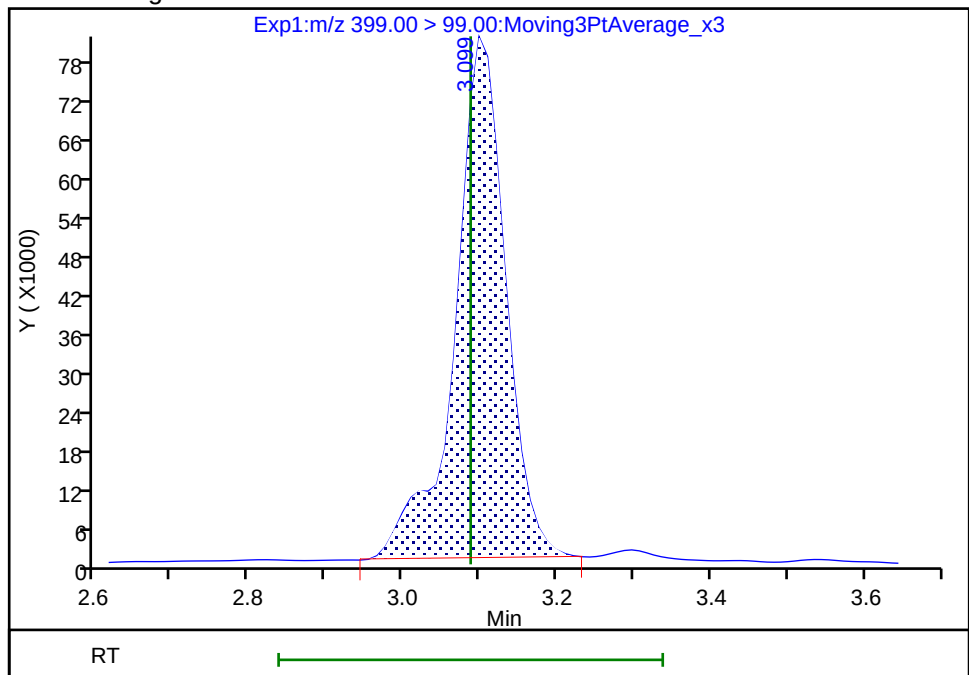
RT: 3.10
Area: 385499
Amount: 0.918400
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 371440
Amount: 0.911551
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:22:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

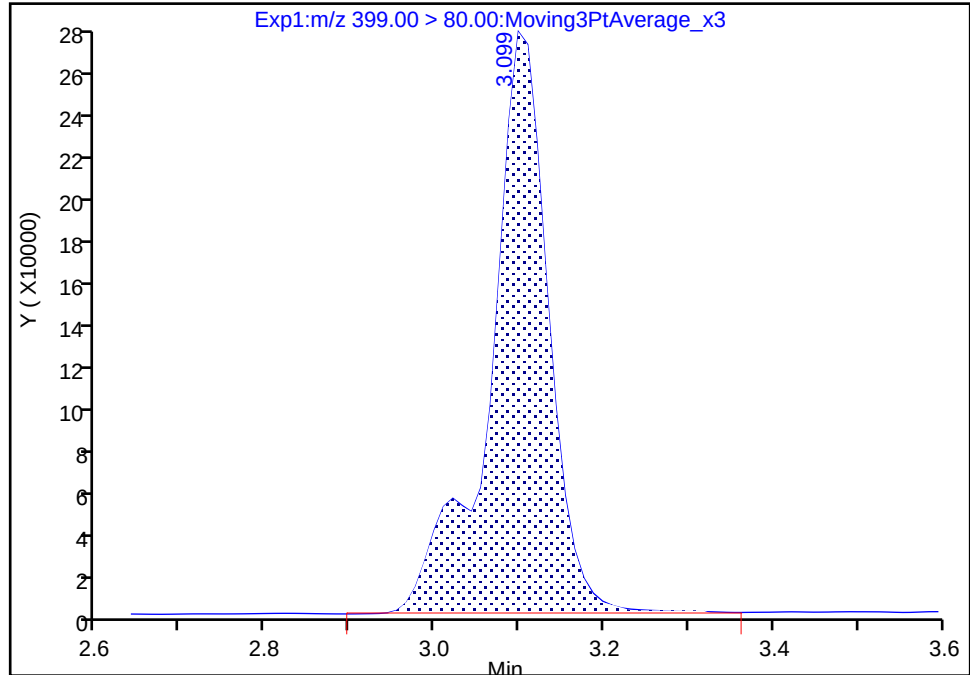
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

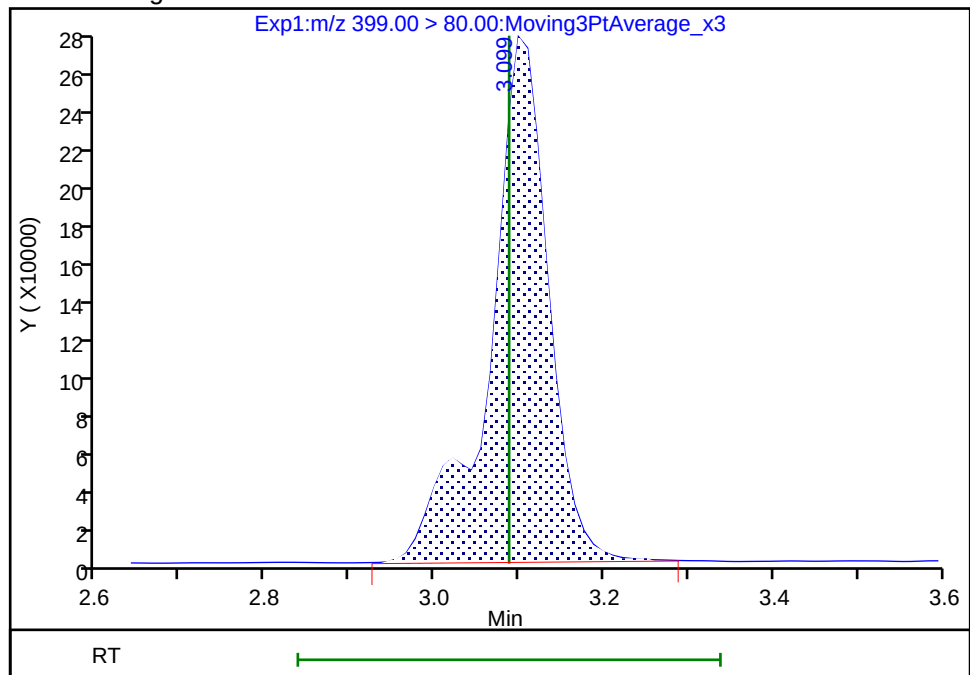
RT: 3.10
Area: 1326146
Amount: 0.918400
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1316256
Amount: 0.911551
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:22:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

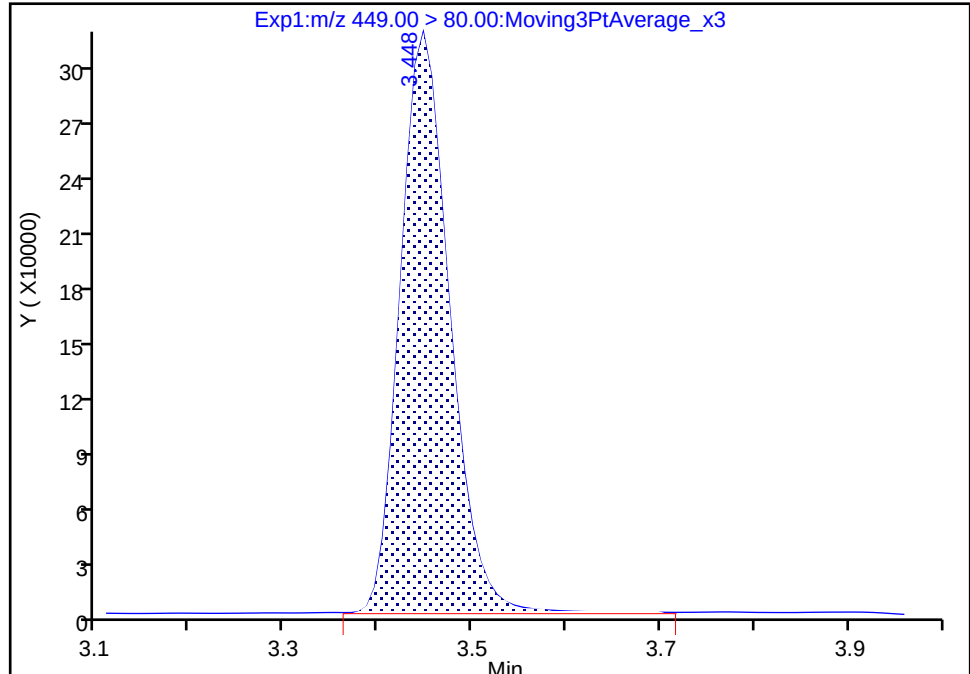
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

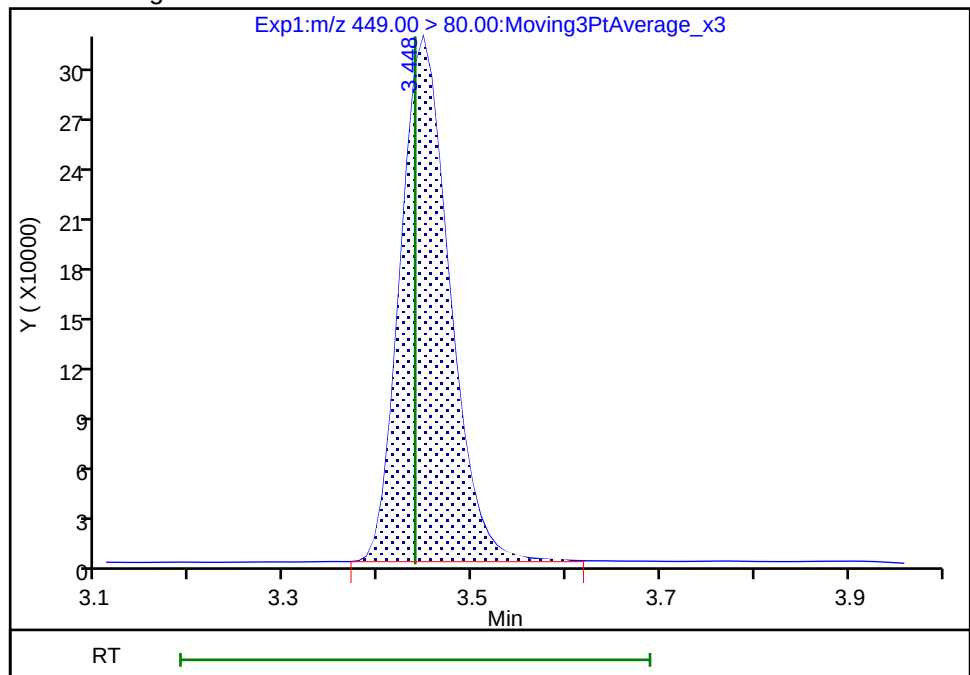
RT: 3.45
Area: 1163441
Amount: 0.973599
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1146624
Amount: 0.959526
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:22:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

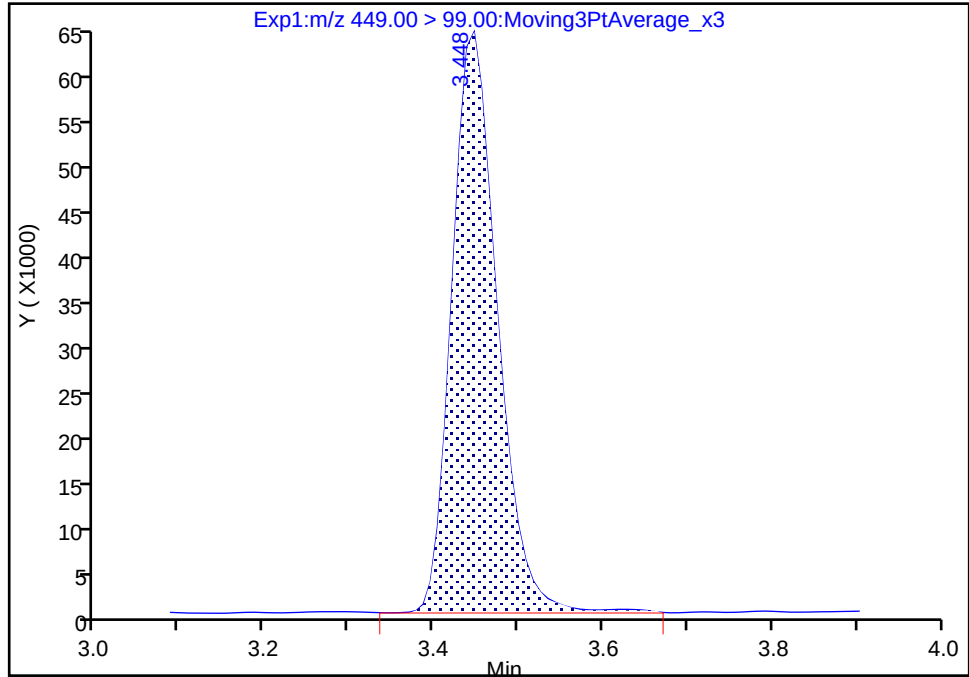
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

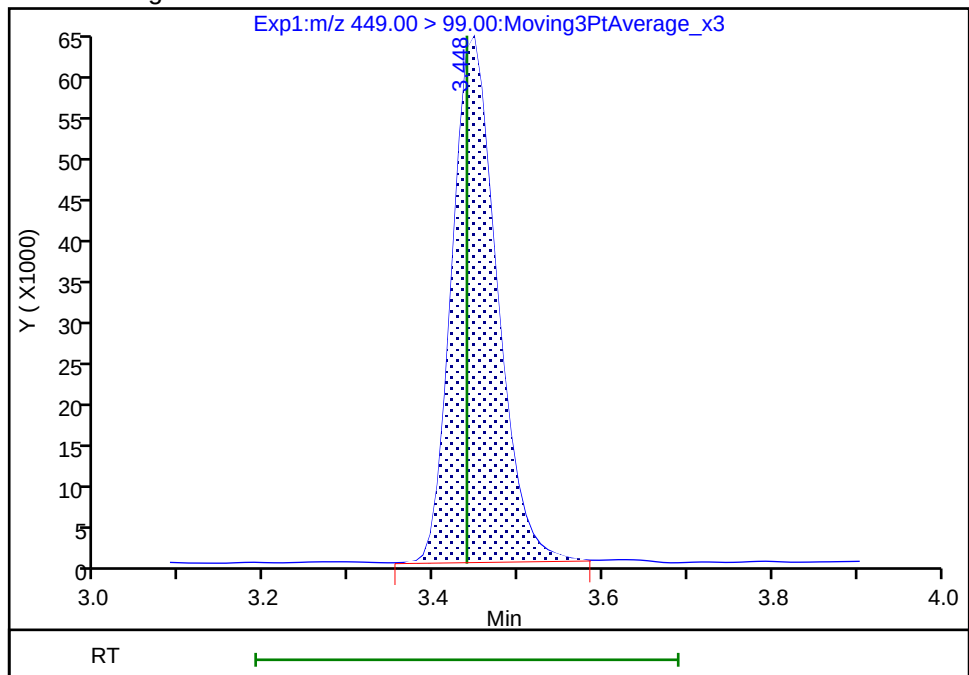
RT: 3.45
Area: 244061
Amount: 0.973599
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 236935
Amount: 0.959526
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:22:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

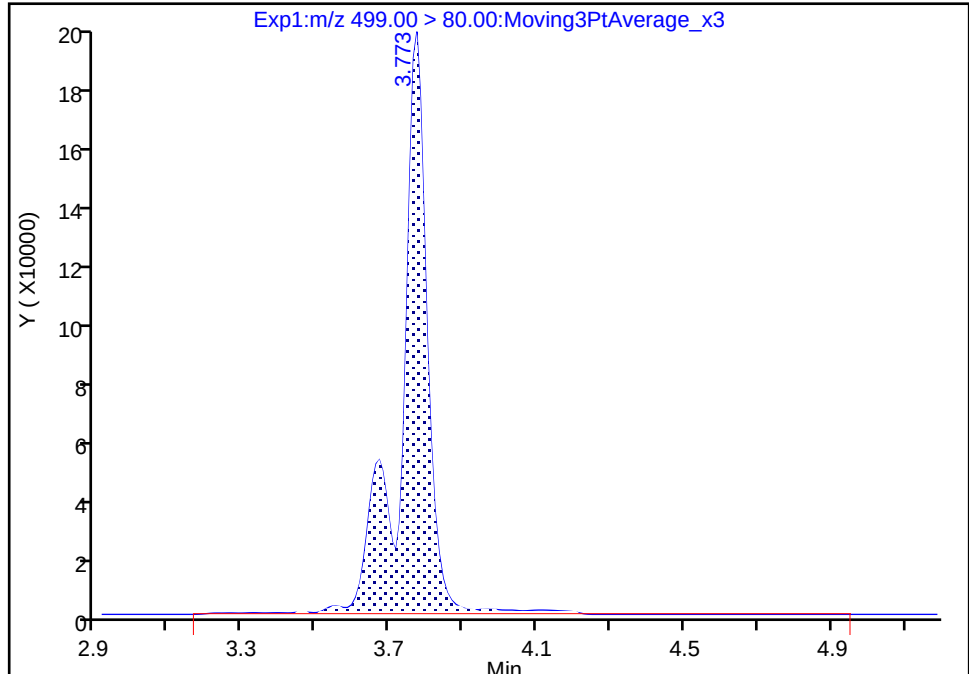
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

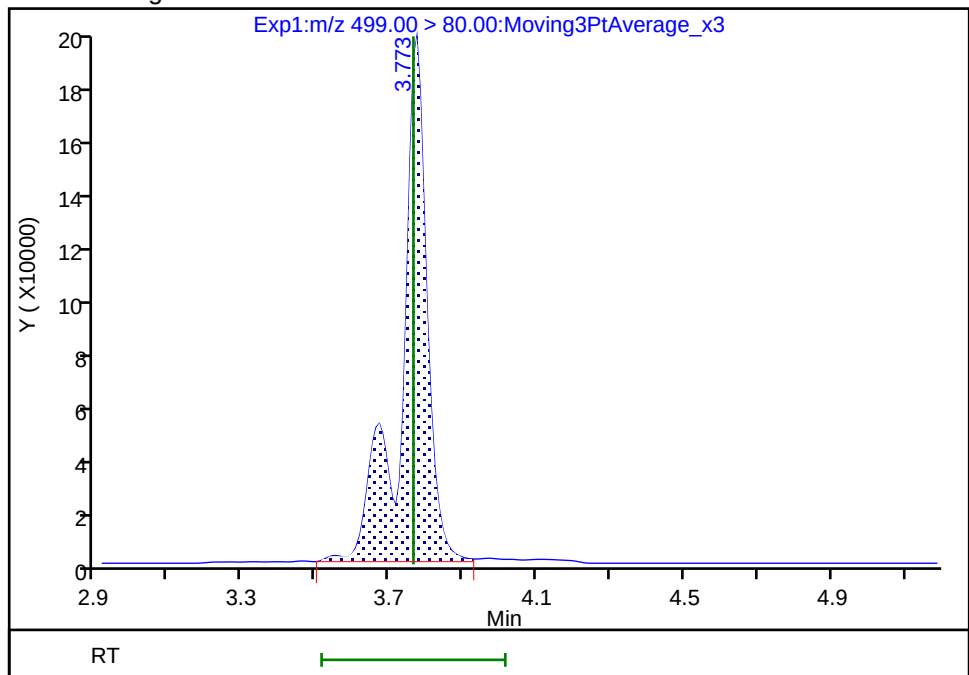
RT: 3.77
Area: 1020230
Amount: 0.980527
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 967033
Amount: 0.929400
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:23:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

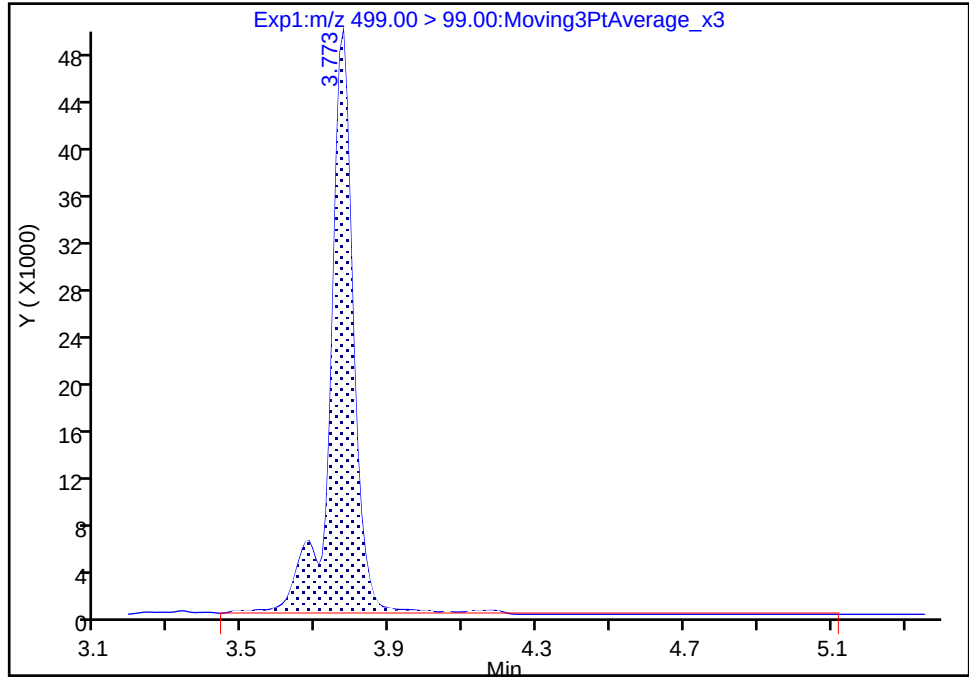
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

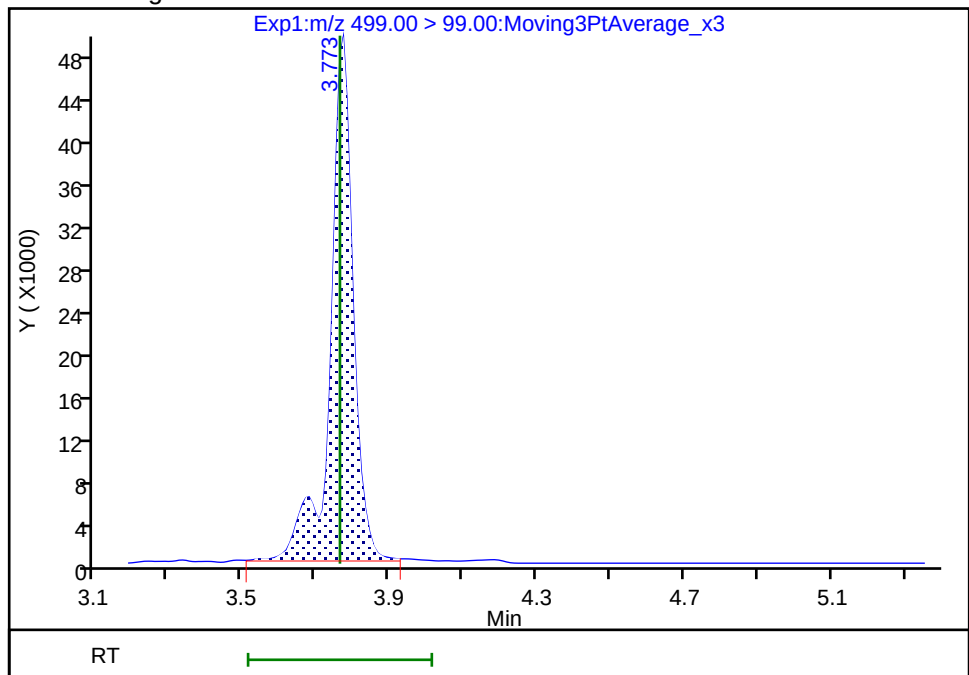
RT: 3.77
Area: 224941
Amount: 0.980527
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 215566
Amount: 0.929400
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 13:01:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

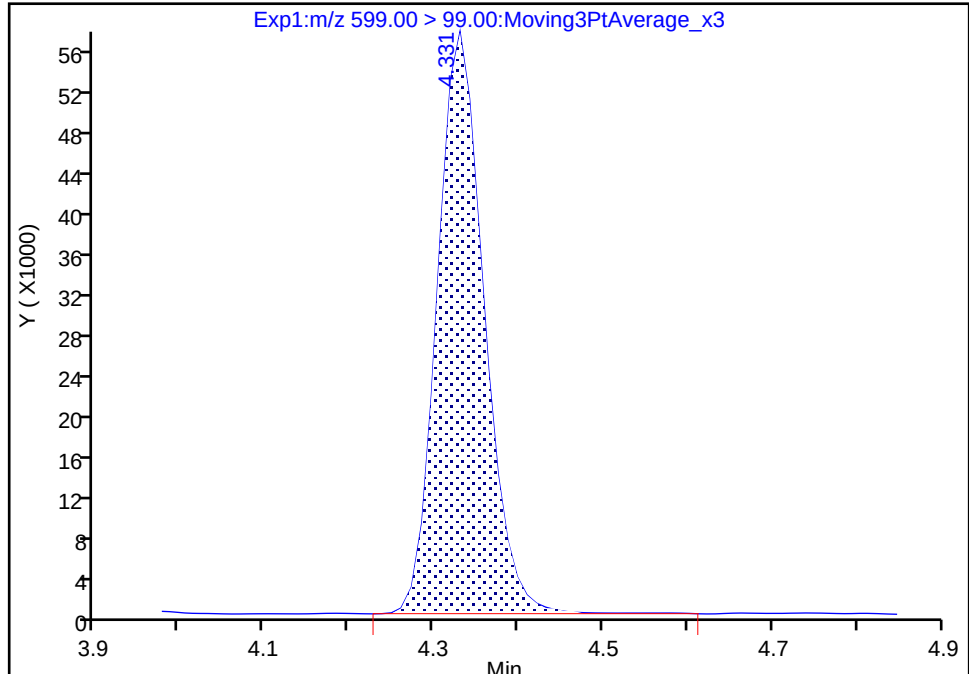
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

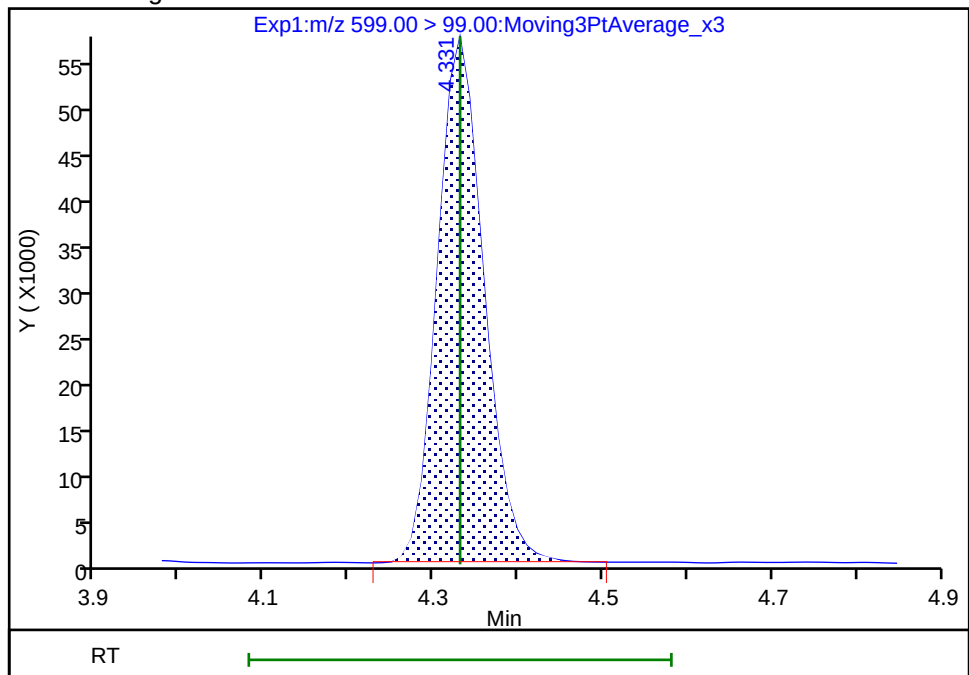
RT: 4.33
Area: 220465
Amount: 0.925555
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 218194
Amount: 0.921414
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:24:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

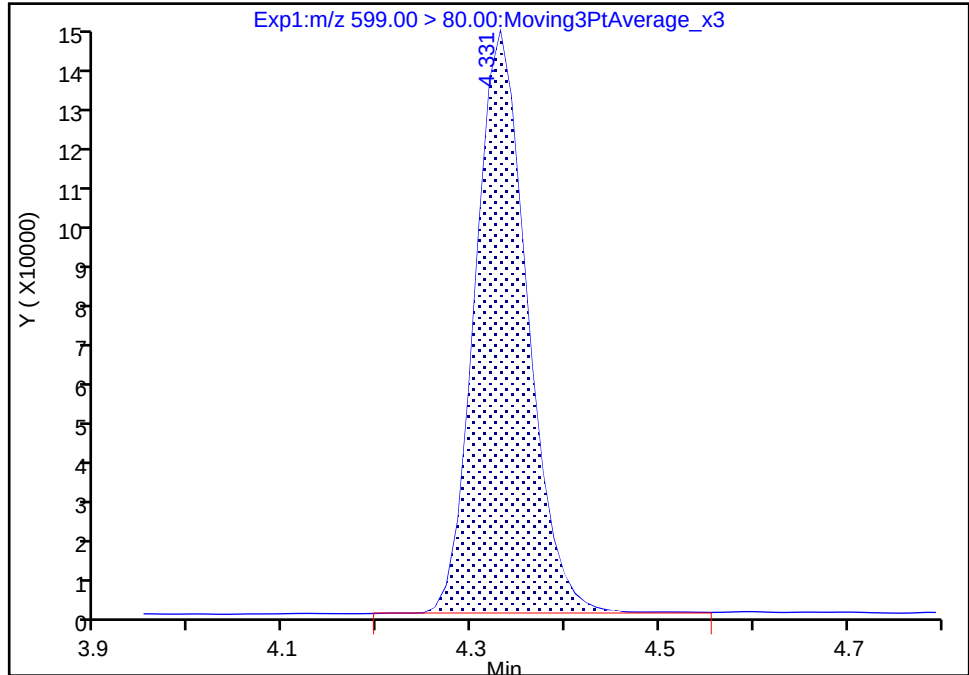
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

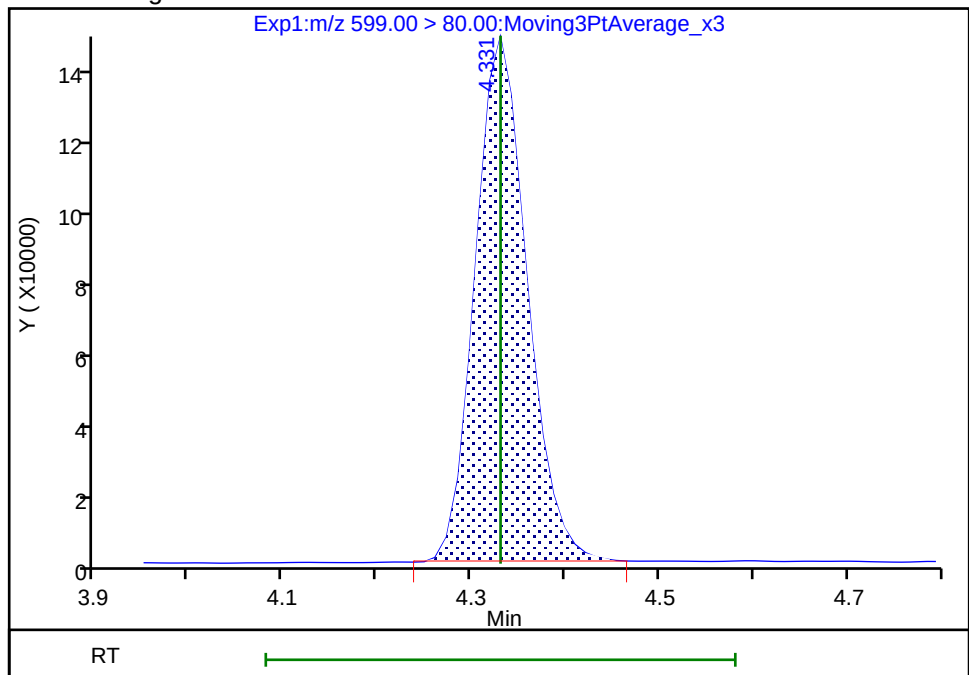
RT: 4.33
Area: 573927
Amount: 0.925555
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 571359
Amount: 0.921414
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:24:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

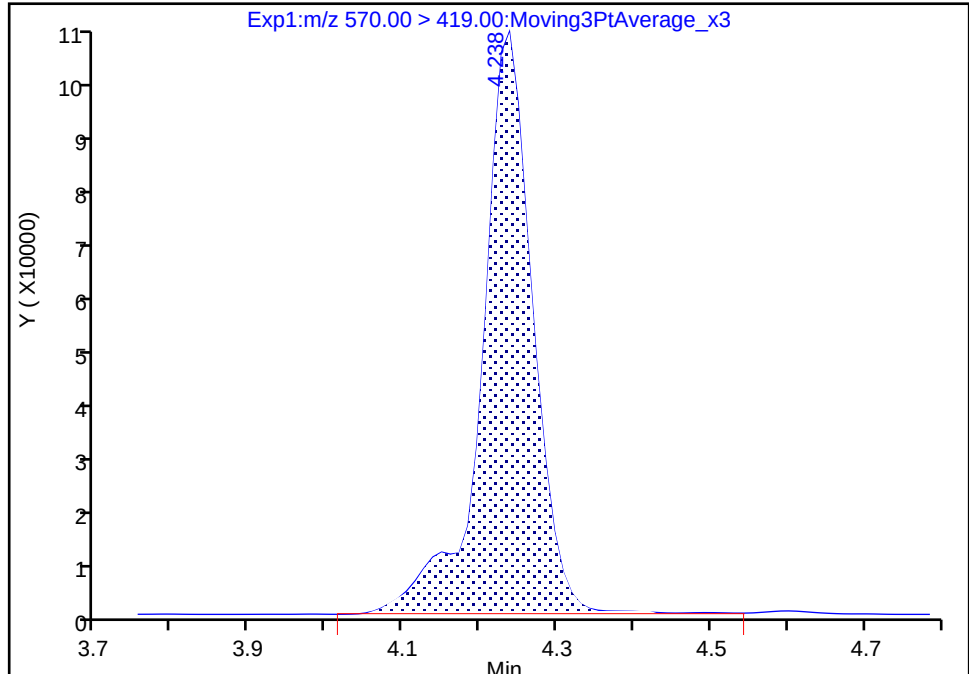
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

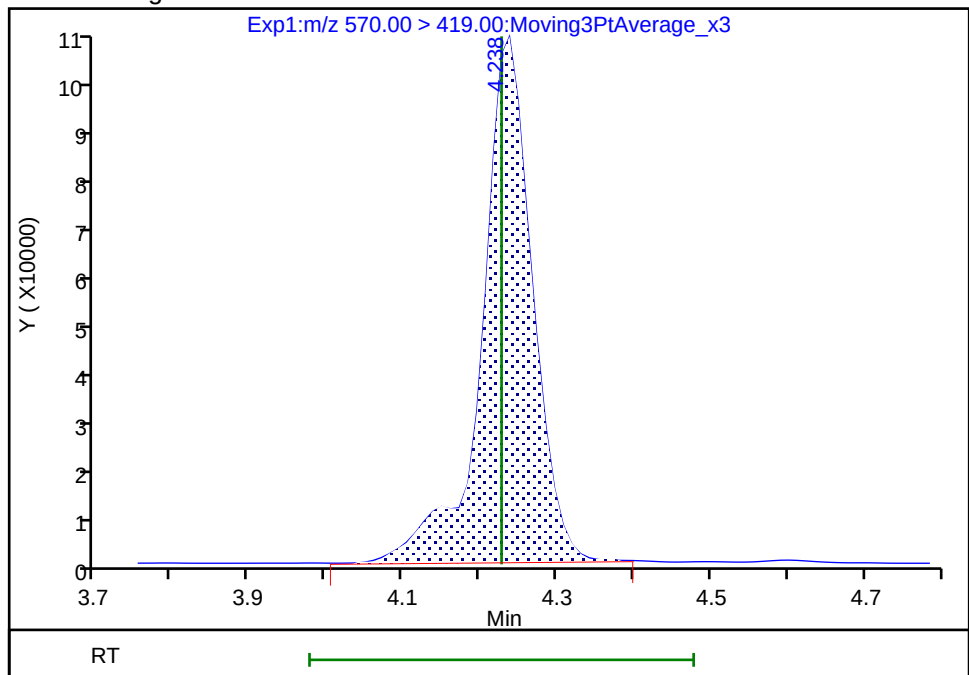
RT: 4.24
Area: 500735
Amount: 1.066501
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 491802
Amount: 1.047268
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 20-Dec-2022 13:01:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

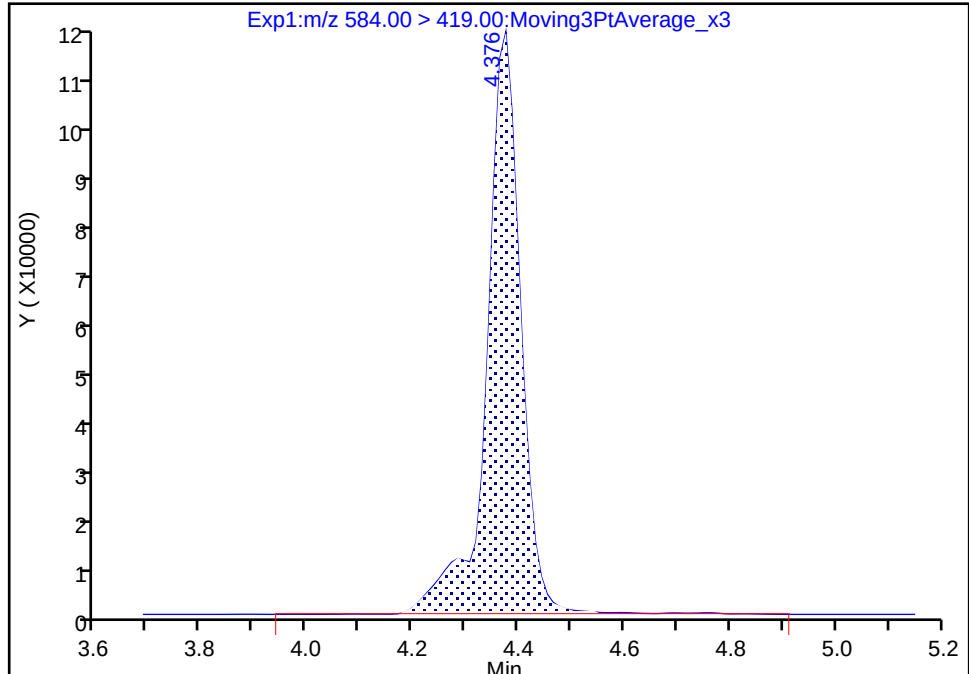
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

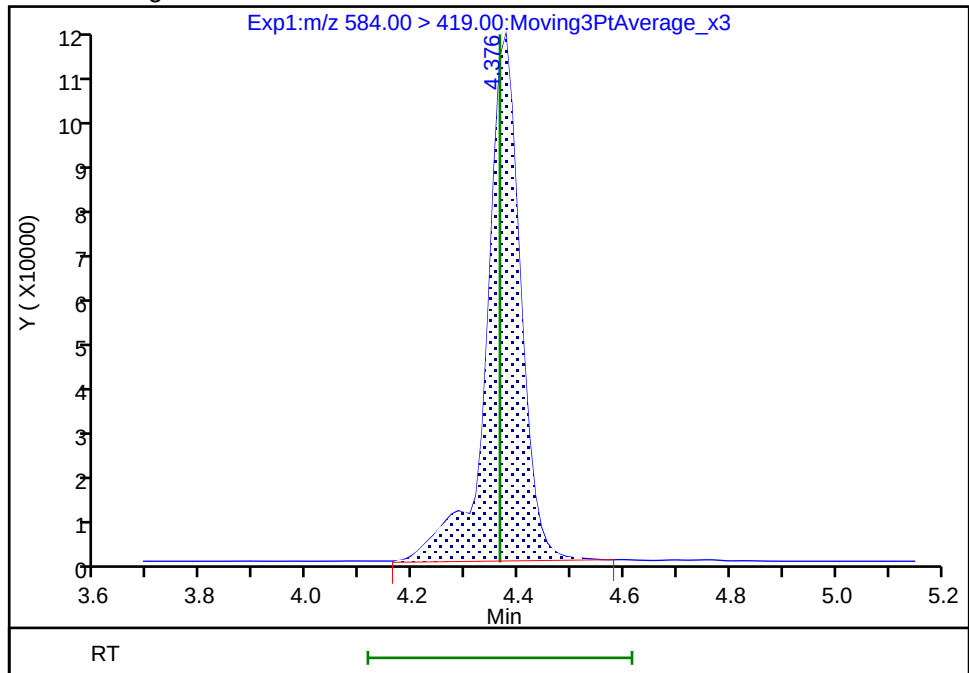
RT: 4.38
Area: 537879
Amount: 0.970684
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 528748
Amount: 0.954205
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:24:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

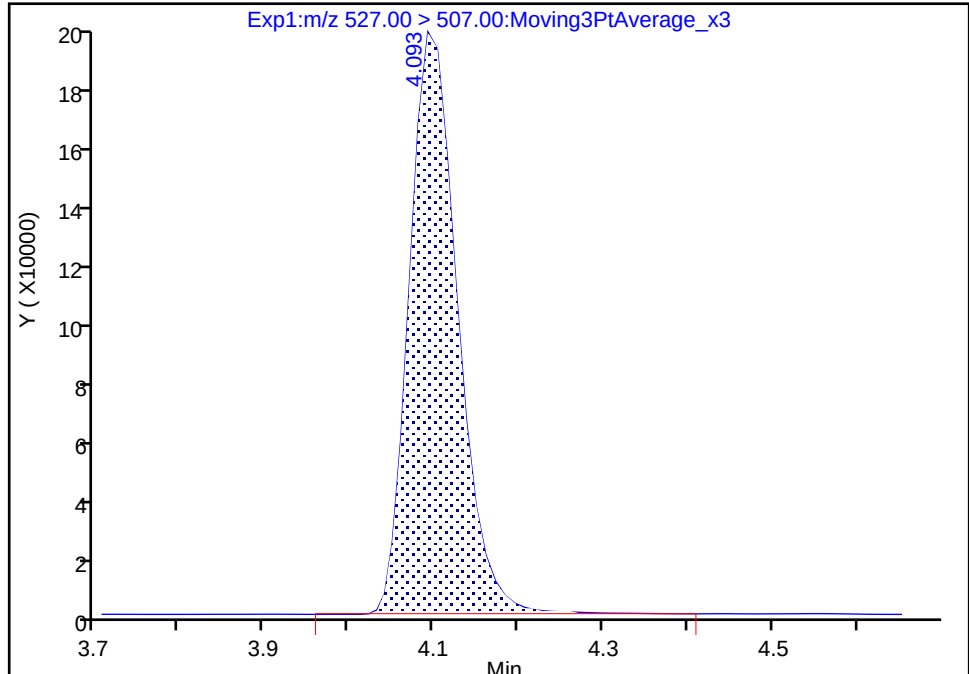
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

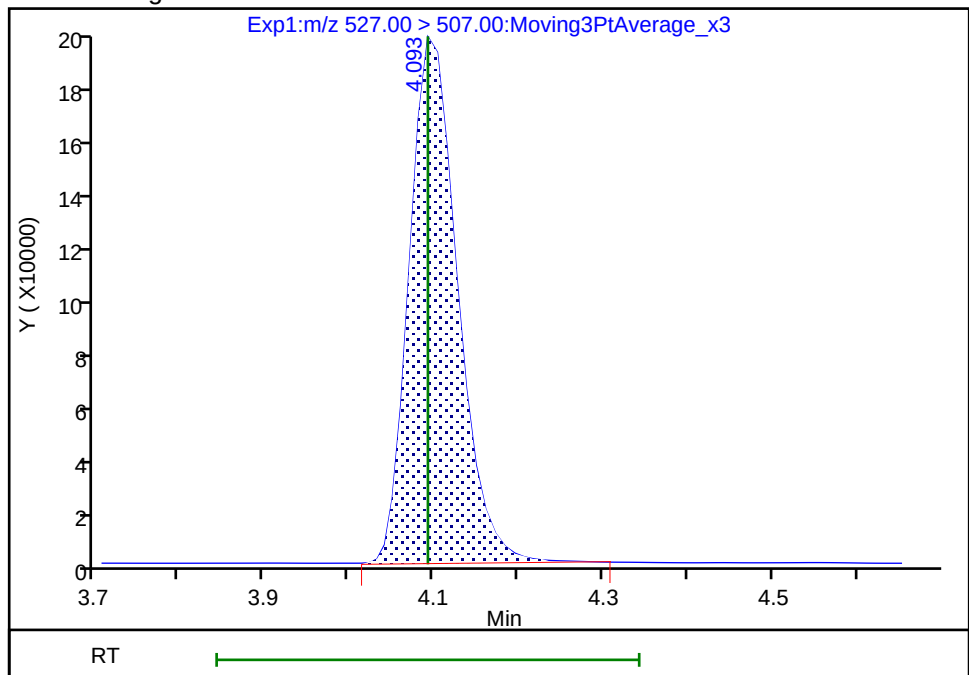
RT: 4.09
Area: 776078
Amount: 1.005620
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 772743
Amount: 1.001299
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:24:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

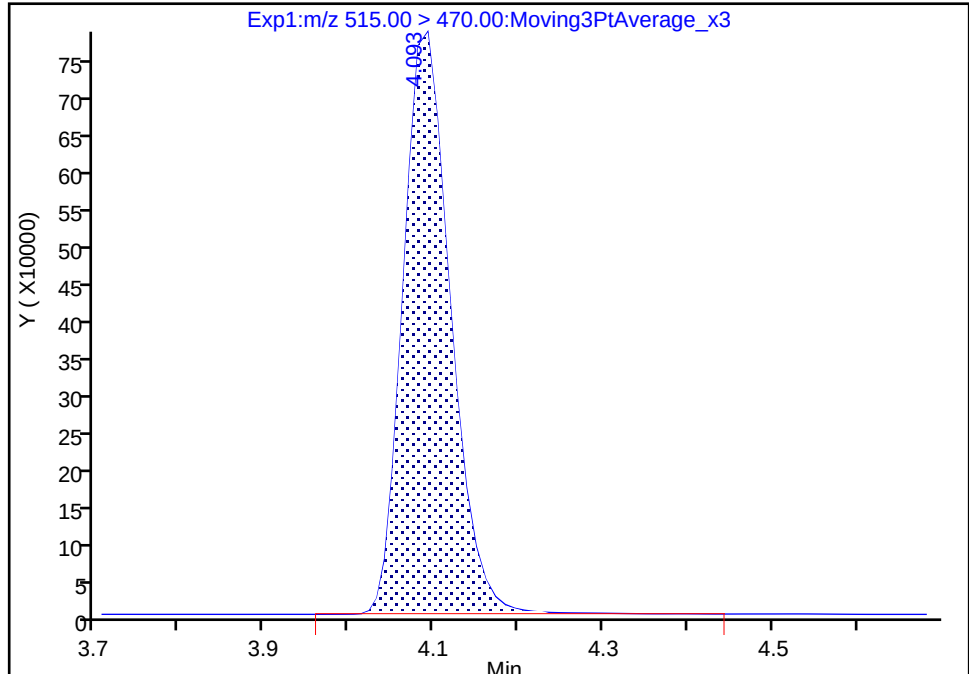
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

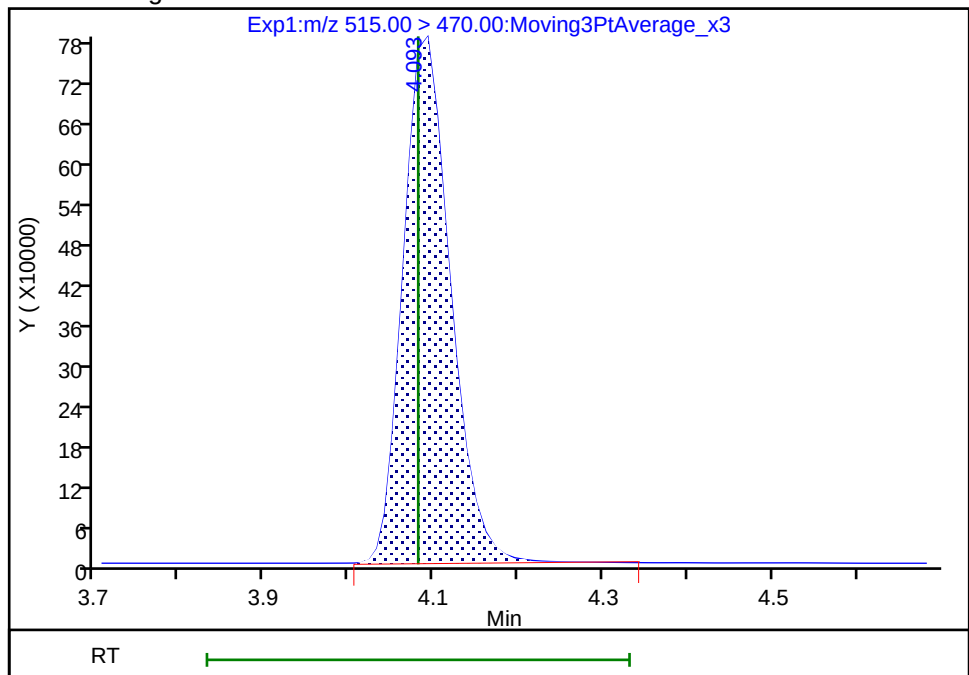
RT: 4.09
Area: 3049102
Amount: 1.314157
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 3039232
Amount: 1.309903
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

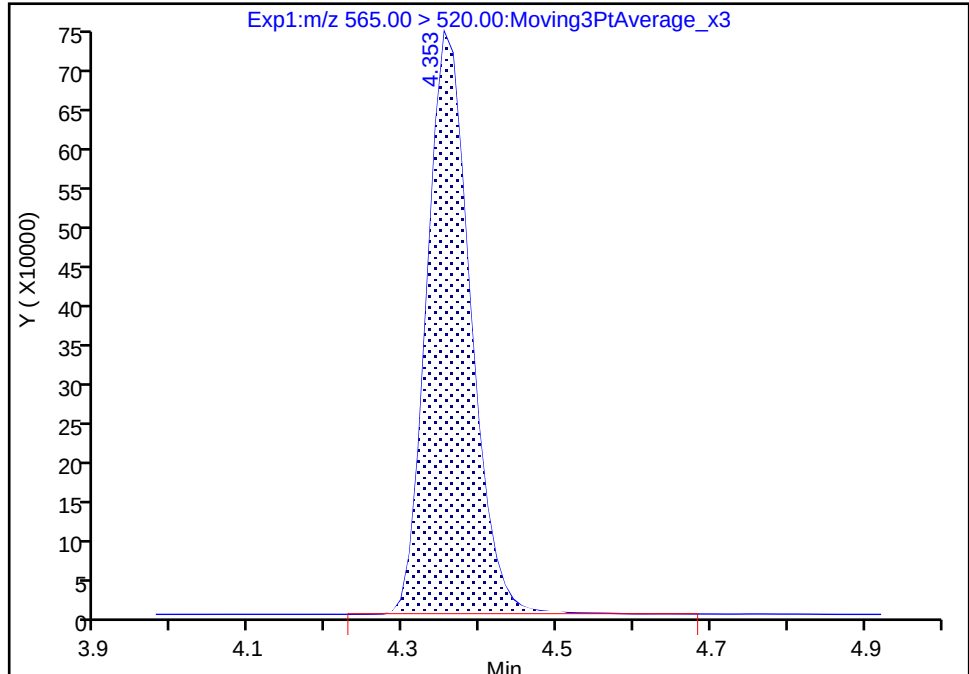
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

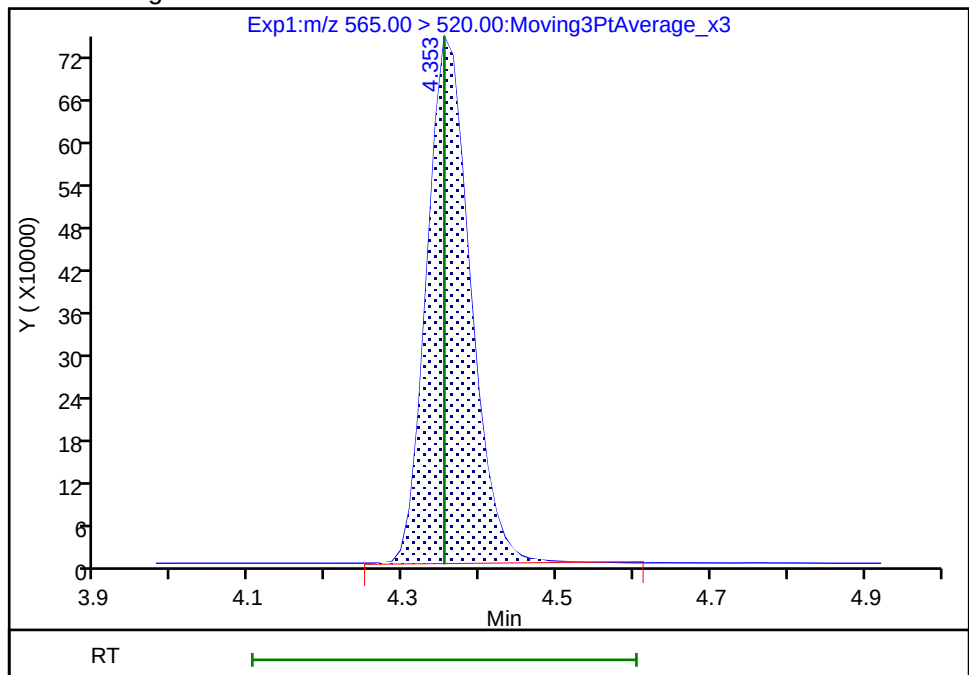
RT: 4.35
Area: 2937246
Amount: 1.382493
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2934528
Amount: 1.381214
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

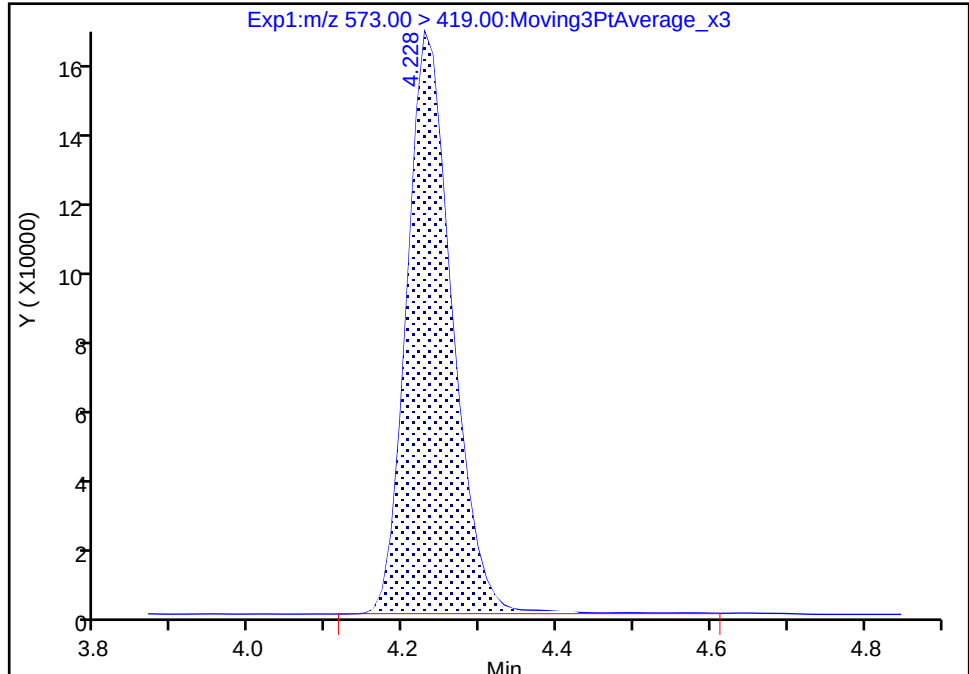
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

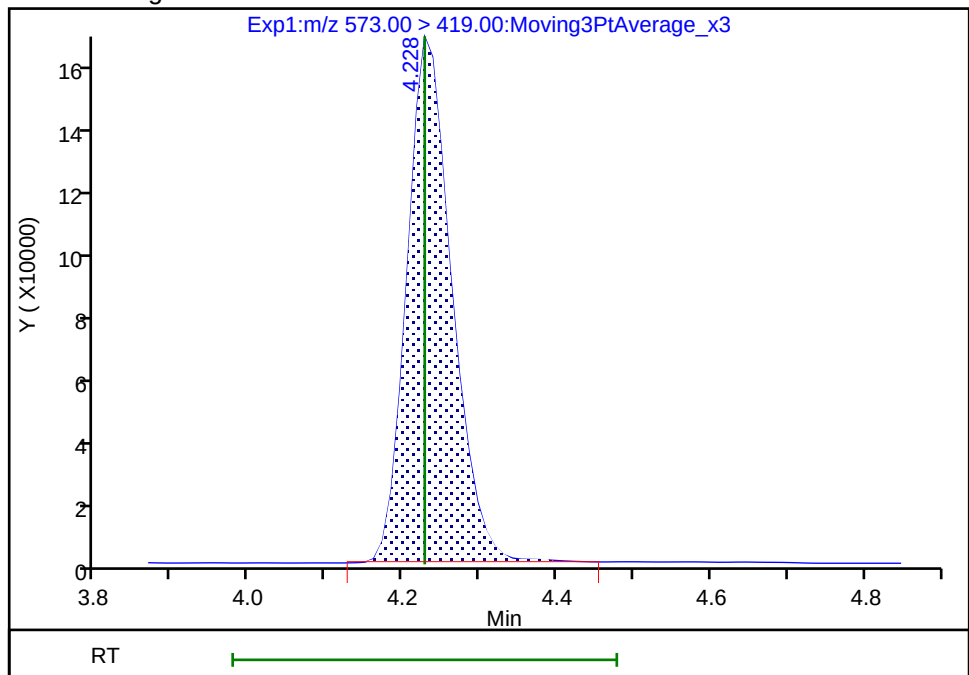
RT: 4.23
Area: 678064
Amount: 1.435316
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 674879
Amount: 1.428574
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:21:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

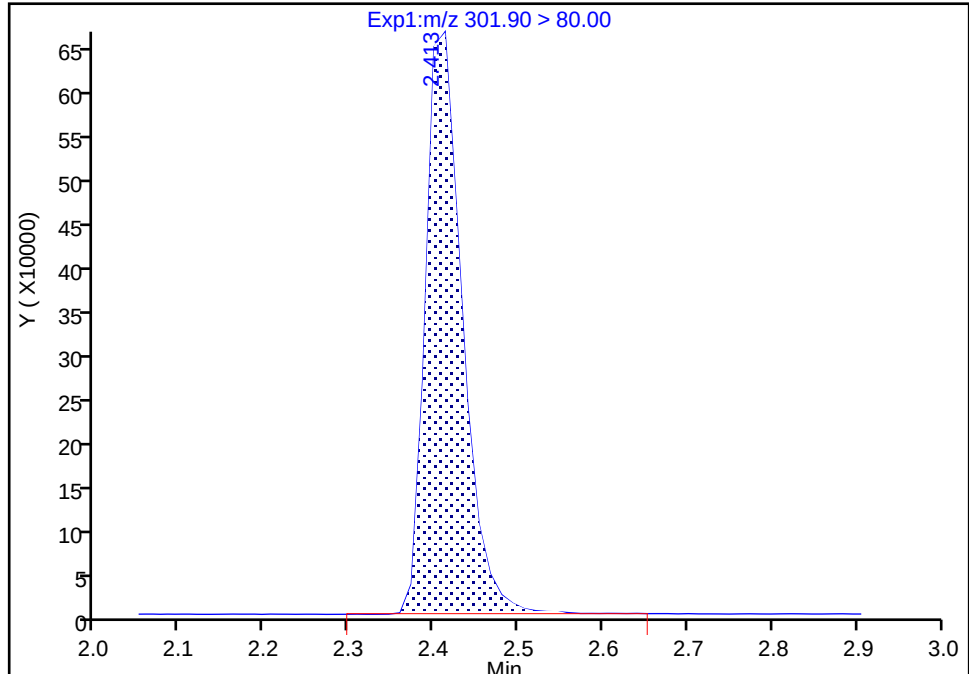
Data File: \\chromfs\Burlington\ChromData\LC812\20221216-53717.b\PA221216A16.d
Injection Date: 16-Dec-2022 13:47:43 Instrument ID: LC812
Lims ID: 480-204551-A-5-C MSD
Client ID: BR-MW-05_20221207_0-0.2-N_MSD
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

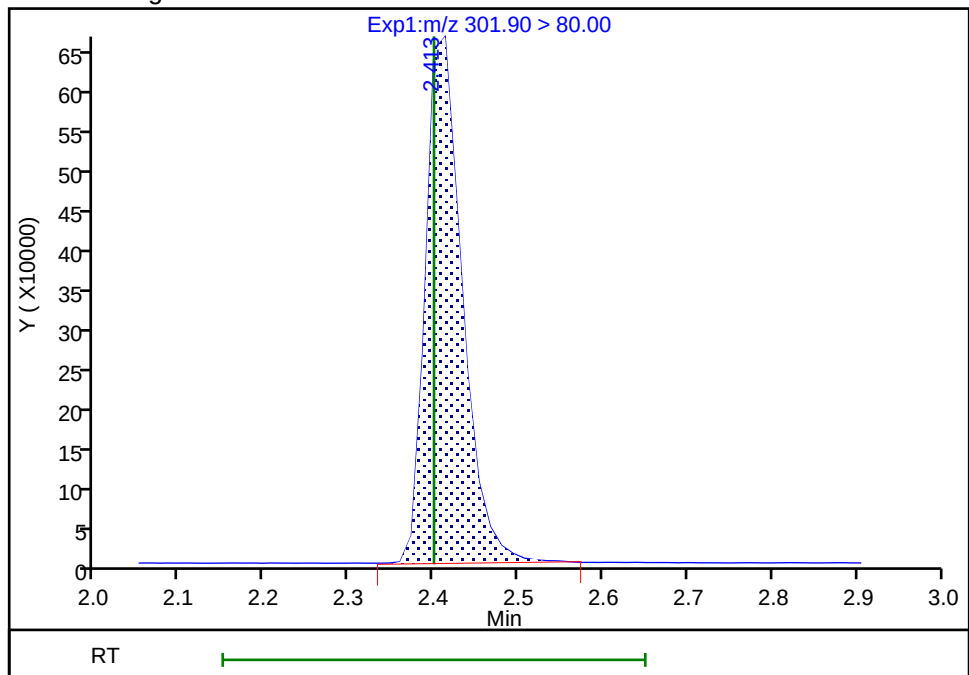
RT: 2.41
Area: 2013371
Amount: 0.958268
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 2008844
Amount: 0.956113
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 19-Dec-2022 10:20:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Instrument ID: LC812 Start Date: 11/18/2022 13:57

Analysis Batch Number: 185958 End Date: 11/18/2022 15:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/18/2022 13:57	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:05	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:13	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:21	1		C-18 4.6 (mm)
IC 200-185958/5		11/18/2022 14:29	1	PA221118ICAL05. d	C-18 4.6 (mm)
IC 200-185958/6		11/18/2022 14:38	1	PA221118ICAL06. d	C-18 4.6 (mm)
IC 200-185958/7		11/18/2022 14:46	1	PA221118ICAL07. d	C-18 4.6 (mm)
ICISAV 200-185958/8		11/18/2022 14:54	1	PA221118ICAL08. d	C-18 4.6 (mm)
IC 200-185958/9		11/18/2022 15:02	1	PA221118ICAL09. d	C-18 4.6 (mm)
IC 200-185958/10		11/18/2022 15:10	1	PA221118ICAL10. d	C-18 4.6 (mm)
ICB 200-185958/11		11/18/2022 15:18	1	PA221118ICAL11. d	C-18 4.6 (mm)
ICV 200-185958/12		11/18/2022 15:27	1	PA221118ICAL12. d	C-18 4.6 (mm)
ZZZZZ		11/18/2022 15:35	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-270642-1
 SDG No.: _____
 Instrument ID: LC812 Start Date: 12/16/2022 11:45
 Analysis Batch Number: 186802 End Date: 12/16/2022 14:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/16/2022 11:45	1		C-18 4.6 (mm)
ZZZZZ		12/16/2022 11:53	1		C-18 4.6 (mm)
ZZZZZ		12/16/2022 12:01	1		C-18 4.6 (mm)
CCB 200-186802/4		12/16/2022 12:09	1	PA221216A04.d	C-18 4.6 (mm)
CCVLIS 200-186802/5		12/16/2022 12:17	1	PA221216A05.d	C-18 4.6 (mm)
MB 200-186742/1-A		12/16/2022 12:26	1	PA221216A06.d	C-18 4.6 (mm)
LCS 200-186742/2-A		12/16/2022 12:34	1	PA221216A07.d	C-18 4.6 (mm)
460-270642-1	BCS-21-09_(10-10.5)P	12/16/2022 12:42	1	PA221216A08.d	C-18 4.6 (mm)
460-270642-2	BCS-21-10_(10-10.5)P	12/16/2022 12:50	1	PA221216A09.d	C-18 4.6 (mm)
460-270642-3	BCS-21-11_(10-10.5)P	12/16/2022 12:58	1	PA221216A10.d	C-18 4.6 (mm)
460-270642-4	BCS-21-12_(10-10.5)P	12/16/2022 13:06	1	PA221216A11.d	C-18 4.6 (mm)
ZZZZZ		12/16/2022 13:15	1		C-18 4.6 (mm)
ZZZZZ		12/16/2022 13:23	1		C-18 4.6 (mm)
ZZZZZ		12/16/2022 13:31	1		C-18 4.6 (mm)
480-204551-A-5-B MS		12/16/2022 13:39	1	PA221216A15.d	C-18 4.6 (mm)
480-204551-A-5-C MSD		12/16/2022 13:47	1	PA221216A16.d	C-18 4.6 (mm)
ZZZZZ		12/16/2022 13:55	1		C-18 4.6 (mm)
ZZZZZ		12/16/2022 14:04	1		C-18 4.6 (mm)
ZZZZZ		12/16/2022 14:12	1		C-18 4.6 (mm)
CCV 200-186802/20		12/16/2022 14:20	1	PA221216A20.d	C-18 4.6 (mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Batch Number: 185958 Batch Start Date: 11/18/22 13:57 Batch Analyst: Dean, NathanBatch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	LCPFAS28NCICV 00012	PFAS32NCBLK20 00023	PFAS32NCIC1 00014	PFAS32NCIC2 00013	PFAS32NCIC3 00015
IC 200-185958/5		537 (modified)		1 mL			100 uL		
IC 200-185958/6		537 (modified)		1 mL				100 uL	
IC 200-185958/7		537 (modified)		1 mL					100 uL
ICISAV 200-185958/8		537 (modified)		1 mL					
IC 200-185958/9		537 (modified)		1 mL					
IC 200-185958/10		537 (modified)		1 mL					
ICB 200-185958/11		537 (modified)		1 mL		100 uL			
ICV 200-185958/12		537 (modified)		1 mL	100 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC4 00036	PFAS32NCIC5 00030	PFAS32NCIC6 00013			
IC 200-185958/5		537 (modified)							
IC 200-185958/6		537 (modified)							
IC 200-185958/7		537 (modified)							
ICISAV 200-185958/8		537 (modified)		100 uL					
IC 200-185958/9		537 (modified)			100 uL				
IC 200-185958/10		537 (modified)				100 uL			
ICB 200-185958/11		537 (modified)							
ICV 200-185958/12		537 (modified)							

Batch Notes	

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)

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PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Batch Number: 185958 Batch Start Date: 11/18/22 13:57 Batch Analyst: Dean, Nathan

Batch Method: 537 (modified) Batch End Date: _____

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Batch Number: 186742 Batch Start Date: 12/15/22 09:16 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 12/15/22 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00009	PFAS21 IS Stk 00049	
MB 200-186742/1		SHAKE, 537 (modified)		5.00 g	10 mL		100 uL	100 uL	
LCS 200-186742/2		SHAKE, 537 (modified)		5.00 g	10 mL	25 uL	100 uL	100 uL	
460-270642-A-1	BCS-21-09_(10-10 .5)P	SHAKE, 537 (modified)	T	5.15 g	10 mL		100 uL	100 uL	
460-270642-A-2	BCS-21-10_(10-10 .5)P	SHAKE, 537 (modified)	T	5.02 g	10 mL		100 uL	100 uL	
460-270642-A-3	BCS-21-11_(10-10 .5)P	SHAKE, 537 (modified)	T	5.00 g	10 mL		100 uL	100 uL	
460-270642-A-4	BCS-21-12_(10-10 .5)P	SHAKE, 537 (modified)	T	5.18 g	10 mL		100 uL	100 uL	
480-204551-A-5 MS		SHAKE, 537 (modified)	T	5.15 g	10 mL	25 uL	100 uL	100 uL	
480-204551-A-5 MSD		SHAKE, 537 (modified)	T	5.08 g	10 mL	25 uL	100 uL	100 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Batch Number: 186742 Batch Start Date: 12/15/22 09:16 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 12/15/22 16:00

Batch Notes	
Balance ID	M02926
Blank Sand Lot #	1535274
Millipore Water Dispense Date	11/29/2022
Analyst ID - Reagent Drop Witness	NDD
SPE Cartridge Lot ID	Sorbent Lot:X0818-PWAX/1256 Prod Lot: E02139-3
SPE Cartridge Type	Phenomenex Strata PFAS (WAX/GCB), 500mg/ 6 mL
Hexane ID	30% Methanol/DI Water:1669378
Methanol ID	Lot:221080 TALS ID:1668571
Ammonium Hydroxide/MeOH ID	1677154
Sodium Hydroxide ID	1673391
Methanolic Potassium Hydroxide ID	1668906
Manifold ID	IDA 1, IDA 2
Acetic Acid ID	1453517
pH Indicator ID	234921U
Pipette/Syringe/Dispenser ID	QH77727
Analyst ID - IS Reagent Drop	KFW
Analyst ID - IS Reagent Drop Witness	NDD
Internal Standard ID	1677806
Analyst ID - Aliquot Step	KFW
Analyst ID - Final Volume Step	KFW
Sonication Start Time	12/14/2022 09:20
Sonication Stop Time	12/14/2022 12:20
Centrifuge Tube ID	430791
QC Bottle Lot ID	0317201H
Batch Comment	IDA:A MTX:A IS:B

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job Number: 460-270642-1
SDG No.: _____
Project: Inwood - Lot 21

Client Sample ID	Lab Sample ID
<u>BCS-21-09_(10-10.5)P</u>	<u>460-270642-1</u>
<u>BCS-21-10_(10-10.5)P</u>	<u>460-270642-2</u>
<u>BCS-21-11_(10-10.5)P</u>	<u>460-270642-3</u>
<u>BCS-21-12_(10-10.5)P</u>	<u>460-270642-4</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington

Job Number: 460-270642-1

SDG Number: _____

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 04/01/2009 07:55

Analyte	Wavelength/ Mass	RL (%)	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/07/2022 15:54 End Date: 12/07/2022 15:54

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l																	
ZZZZZZ			15:54																		
460-270642-1	1	T	15:54	X																	
460-270642-2	1	T	15:54	X																	
460-270642-3	1	T	15:54	X																	
460-270642-4	1	T	15:54	X																	
460-270642-4 DU	1	T	15:54	X																	

Prep Types

T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-270642-1

Batch: 186481
Method: Moisture

Analyst Initials: RWM
Instrument: No Equipment

Lab Sample ID: 460-270642-A-1

Analysis Date: Dec 07, 2022 15:54

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	80.0495662949194	%

Lab Sample ID: 460-270642-A-2

Analysis Date: Dec 07, 2022 15:54

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	77.3809523809524	%

Lab Sample ID: 460-270642-A-3

Analysis Date: Dec 07, 2022 15:54

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	79.1193181818182	%

Lab Sample ID: 460-270642-A-4

Analysis Date: Dec 07, 2022 15:54

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	79.3532338308458	%

Lab Sample ID: 460-270642-A-4 DU

Analysis Date: Dec 07, 2022 15:54

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	76.7503302509908	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-270642-1

SDG No.: _____

Batch Number: 186481 Batch Start Date: 12/07/22 15:54 Batch Analyst: McNabb, Robert WBatch Method: Moisture Batch End Date: 12/08/22 09:18

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
460-270642-A-1	BCS-21-09_(10-10 .5) P	Moisture	T	0.99 g	9.06 g	7.45 g	19.950433705080 6 %	80.049566294919 4 %	
460-270642-A-2	BCS-21-10_(10-10 .5) P	Moisture	T	0.98 g	7.70 g	6.18 g	22.619047619047 6 %	77.380952380952 4 %	
460-270642-A-3	BCS-21-11_(10-10 .5) P	Moisture	T	0.97 g	8.01 g	6.54 g	20.880681818181 8 %	79.119318181818 2 %	
460-270642-A-4	BCS-21-12_(10-10 .5) P	Moisture	T	0.98 g	9.02 g	7.36 g	20.646766169154 2 %	79.353233830845 8 %	
460-270642-A-4 DU	BCS-21-12_(10-10 .5) P	Moisture	T	0.99 g	8.56 g	6.80 g	23.249669749009 2 %	76.750330250990 8 %	

Batch Notes	
Balance ID	M78711
Oven ID	WC OVEN #2
Thermometer ID	328 (CF=0)
Date samples were placed in the oven	12/07/2022
Time samples were place in the oven	15:54
Temperature - Start - Uncorrected	109 Degrees C
Oven Temp In	109 Degrees C
Date samples were removed from oven	12/08/2022
Time Samples were removed from oven	09:00
Temperature - End - Uncorrected	109 Degrees C
Oven Temp Out	109 Degrees C
Date and Time Samples in Desiccator	12/08/2022 09:00
Date and Time Samples out of Desiccator	12/08/2022 09:15

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

630914

Environment Testing
America

Address:

NYC

Regulatory Programs: ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Company Name: Roux Associates	Client Contact	Project Manager: Valerie Sotomayor	Site Contact: J. Rush	Date: 12/2/22	COC No: 1 of 1 COCs
Address: 209 Shattuck St		Tel/Email: Valerie.Sotomayor@roux.com	Lab Contact: M. Haas	Carrier:	
City/State/Zip: Islip NY 11749		Analysis Turnaround Time			
Phone:		☐ CALENDAR DAYS ☐ WORKING DAYS			
Fax:		TAT if different from Below			
Project Name: Inwood Lot 21		☐ 2 weeks			
Site:		☐ 1 week			
PO # 24777.0008Y003		☐ 2 days			
		☐ 1 day			

Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
BCS-21-09-(10-10.5)P				12/2	1105	G	So	1			1
BCS-21-10-(10-10.5)P				12/2	1115	G	So	1			2
BCS-21-11-(10-10.5)P				12/2	1125	G	So	1			3
BCS-21-12-(10-10.5)P				12/2	1135	G	So	1			4
SUB WORK											
460-270642 Chain of Custody											

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:				Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Received by:	Date/Time:	Company:	Date/Time:	
Relinquished by: [Signature]	Roux	Received by: [Signature]	12/2 1430	Company: [Signature]	12/2 1600	
Relinquished by: [Signature]		Received in Laboratory by: [Signature]	Date/Time: 12/2 1500	Company: [Signature]	Date/Time: 12/2 1800	

20/20 2029

270642

IR Gun #

Cooler Temperatures

	RAW	CORRECTED
Cooler #7:	°C	°C
Cooler #8:	°C	°C
Cooler #9:	°C	°C

If pH adjustments are required record the information below:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4.1
10/22/2019

Initials:

Date: .

12222

EUROFINS BURLINGTON
530 COMMUNITY DR
SOUTH BURLINGTON VT

KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

42 LBS

4 OF 5

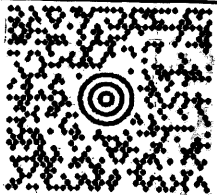
SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

40 LBS

3 OF 5

SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



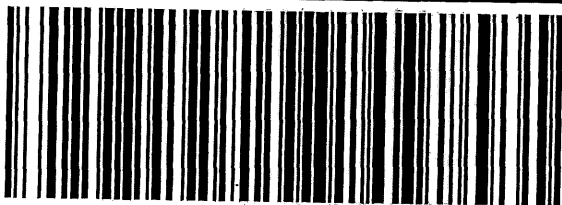
VT 054 0-02



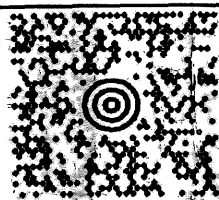
UPS NEXT DAY AIR EARLY

1+

TRACKING #: 1Z 73R 91R 15 9290 0893



BILLING: P/P



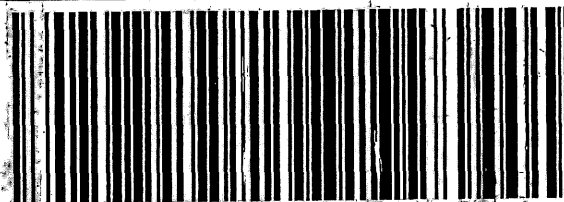
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UPS NEXT DAY AIR EARLY

1+

TRACKING #: 1Z 73R 91R 15 9045 6681



BILLING: P/P

XOL 22.11.37

NV45 50.0A 12/2022*



TM

XOL 22.11.37

NV45 50.0A 12/2022*



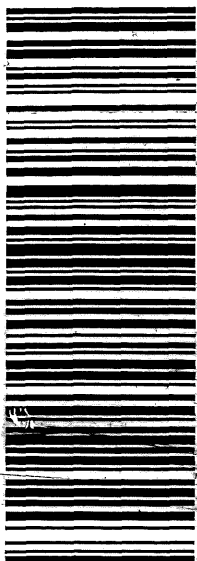
VT 054 0-02



1+

UPS NEXT DAY AIR EARLY

TRACKING #: 1Z 73R 91R 15 9228 4078



BILLING: P/P



XOL 22.11.37 NV45 50.0A 12/2022*

12/21/2022

3:12 PM

2 OF 5

40 LBS

KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817
SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

NOBIL
P. GREEN
7732015
530 COMMUNITY DR
SOUTH BURLINGTON VT
EUROFINS BURLINGTON
VT 05403

KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

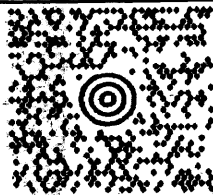
KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

25 LBS

5 OF 5

SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



VT 054 0-02



UPS NEXT DAY AIR EARLY

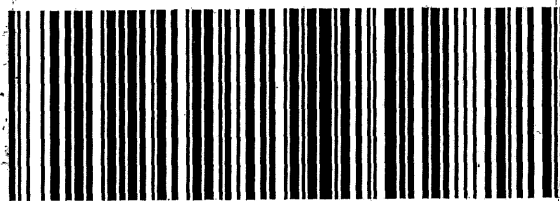
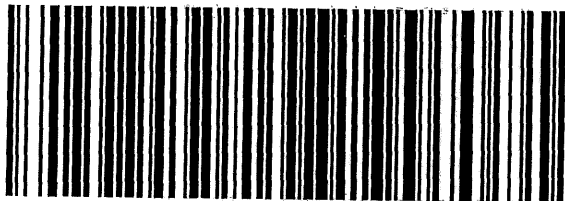
1+

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UPS NEXT DAY AIR EARLY

1+

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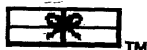
BILLING: P/P



VV45 50.0A 12/2022*

XOL 22.11.37

NV45 50.0A 12/2022*



Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-270642-1

Login Number: 270642

List Source: Eurofins Edison

List Number: 1

Creator: Casallas, Angela C

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-270642-1

Login Number: 270642

List Number: 2

Creator: Dawicki, Don C

List Source: Eurofins Burlington

List Creation: 12/06/22 02:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1861416 through 1420
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3C, 1.3C, 0.2C, 2.3C, 1.2C
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	