Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

DATA PACKAGE

SUB DATA

PROJECT NAME : REAC COMMODORE

TECHLAW CONSULTANTS, INC

14840 Conference Center Dr.

Suite #200

Chantily, VA - 20151

Phone No: 703-818-3205

ORDER ID : Q1364

ATTENTION : Jonathan Dziekan

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : Q1364

Project ID : REAC Commodore

Client : TechLaw Consultants, Inc

Lab Sample Number	Client Sample Number
Q1364-01	MW-30D-021125
Q1364-02	EB-01-021125
Q1364-03	MW-33D-021225
Q1364-04	Q1364-03MS
Q1364-05	Q1364-03MSD
Q1364-06	VFCC-2-021225
Q1364-07	VFCC-3-021225
Q1364-08	MW-33S-021225
Q1364-09	MW-33S-FD-021225
Q1364-10	EB-02-021225

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:05 pm, Mar 11, 2025

Date: 3/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Yazmeen Gomez
Chemtech Consulting Group Inc.
284 Sheffield Street
Mountainside NJ 07092

Generated 3/11/2025 10:35 AM Revision 1

JOB DESCRIPTION

Q1364

JOB NUMBER

410-207884-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

myEOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/11/2025 10:35 AM
Revision 1

Authorized for release by
Elizabeth Anthony, Project Mgmt. Assistant
elizabeth.anthony@et.eurofinsus.com
Designee for
Barbara A Weyandt, Project Manager
Barbara.Weyandt@et.eurofinsus.com
717 556-7264

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Table of Contents

Cover Title Page 1

Data Summaries 6

Report Narrative 6

Sample Summary 7

Detection Summary 8

Method Summary 10

Client Sample Results 11

Definitions 24

QC Sample Results 25

QC Association 34

Chronicle 35

Certification Summary 37

Manual Integration Summary 38

Organic Sample Data 42

LCMS 42

1633_Final 42

1633_Final QC Summary 43

1633_Final Sample Data 58

Standards Data 198

1633_Final ICAL Data 198

1633_Final CCAL Data 367

Raw QC Data 439

1633_Final Blank Data 439

1633_Final LCS/LCSD Data 454

1633_Final MS/MSD Data 491

1633_Final Run Logs 497

Table of Contents

1633_Final Prep Data 500

Shipping and Receiving Documents 506

Client Chain of Custody 507

Sample Receipt Checklist 509

Job Narrative
410-207884-1

REVISION

The report being provided is a revision of the original report sent on 2/19/2025. The report (revision 1) is being revised due to a client request to update some sample IDs and collection time.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/14/2025 9:45 AM. 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 time was 2.0°C.

PFAS
Method 1633_Final: Samples MW-30D-021125 (410-207884-1), MW-33D-021225 (410-207884-3), MW-33D-021225MS (410-207884-3[MS]), MW-33D-021225MSD (410-207884-3[MSD]), VFCC-2-021225 (410-207884-4), VFCC-3-021225 (410-207884-5), MW-33S-021225 (410-207884-6) and MW-33S-FD-021225 (410-207884-7) were submitted in a nonstandard container.

Method 1633_Final: Samples(s) EB-01-021125 (410-207884-2) and EB-02-021225 (410-207884-8) were submitted in a nonstandard container and subsampling was required.

Method 1633_Final: The method blank labeled isotope(s) 13C5 PFPeA, 13C5 PFHxA, 13C4 PFHpA, 13C7 PFUnA, 13C2 PFTeDA and 13C3 HFPO-DA recovery associated with samples: MW-30D-021125 (410-207884-1), EB-01-021125 (410-207884-2), MW-33D-021225 (410-207884-3), MW-33D-021225MS (410-207884-3[MS]), MW-33D-021225MSD (410-207884-3[MSD]), VFCC-2-021225 (410-207884-4), VFCC-3-021225 (410-207884-5), MW-33S-021225 (410-207884-6), MW-33S-FD-021225 (410-207884-7) and EB-02-021225 (410-207884-8) is outside the QC acceptance limits. Since the method blank is ND for the analyte, data is reported.

Method 1633_Final: Analyte Perfluoroheptanesulfonic acid was marked as non-detect for sample MW-30D-021125 (410-207884-1) due to a detection below RL and failing ion ratio.

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

Sample Summary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1364

Job ID: 410-207884-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-207884-1	MW-30D-021125	Water	02/11/25 14:30	02/14/25 09:45
410-207884-2	EB-01-021125	Water	02/11/25 18:00	02/14/25 09:45
410-207884-3	MW-33D-021225	Water	02/12/25 11:45	02/14/25 09:45
410-207884-4	VFCC-2-021225	Water	02/12/25 13:40	02/14/25 09:45
410-207884-5	VFCC-3-021225	Water	02/12/25 13:20	02/14/25 09:45
410-207884-6	MW-33S-021225	Water	02/12/25 14:35	02/14/25 09:45
410-207884-7	MW-33S-FD-021225	Water	02/12/25 14:35	02/14/25 09:45
410-207884-8	EB-02-021225	Water	02/12/25 15:06	02/14/25 09:45

Detection Summary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1364

Job ID: 410-207884-1

Client Sample ID: MW-30D-021125 — Lab Sample ID: 410-207884-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	7.0		3.5	0.97	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	11		1.8	0.53	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	12		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	11		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	46		1.8	0.80	ng/L	1		1633	Total/NA
Perfluorononanoic acid	9.0		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	0.97	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	3.5		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	3.9		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	76		1.8	0.44	ng/L	1		1633	Total/NA
HFPO-DA	0.71	J	1.8	0.66	ng/L	1		1633	Total/NA

Client Sample ID: EB-01-021125 — Lab Sample ID: 410-207884-2

No Detections.

Client Sample ID: MW-33D-021225 — Lab Sample ID: 410-207884-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	6.1		3.5	0.97	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	12		1.8	0.53	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	10		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	7.1		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	15		1.8	0.80	ng/L	1		1633	Total/NA
Perfluorononanoic acid	8.1		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	1.2	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.9		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	3.6		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	14		1.8	0.44	ng/L	1		1633	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.9	J	3.5	0.88	ng/L	1		1633	Total/NA

Client Sample ID: VFCC-2-021225 — Lab Sample ID: 410-207884-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	5.6		3.6	0.98	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	9.0		1.8	0.54	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	7.4		1.8	0.45	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	6.1		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	19		1.8	0.80	ng/L	1		1633	Total/NA
Perfluorononanoic acid	4.9		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	0.78	J	1.8	0.45	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.9		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	4.1		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	55		1.8	0.45	ng/L	1		1633	Total/NA
HFPO-DA	0.92	J	1.8	0.67	ng/L	1		1633	Total/NA

Client Sample ID: VFCC-3-021225 — Lab Sample ID: 410-207884-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	5.4		3.6	0.98	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	9.0		1.8	0.54	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	8.2		1.8	0.45	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VFCC-3-021225 (Continued)

Lab Sample ID: 410-207884-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	5.8		1.8	0.72	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	22		1.8	0.81	ng/L	1		1633	Total/NA
Perfluorononanoic acid	6.8		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.7		1.8	0.45	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	2.7		1.8	0.72	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	26		1.8	0.45	ng/L	1		1633	Total/NA

Client Sample ID: MW-33S-021225

Lab Sample ID: 410-207884-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	8.1		3.5	0.98	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	15		1.8	0.53	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	12		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	7.1		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	15		1.8	0.80	ng/L	1		1633	Total/NA
Perfluorononanoic acid	7.5		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	1.5	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	4.1		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	3.4		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	11		1.8	0.44	ng/L	1		1633	Total/NA

Client Sample ID: MW-33S-FD-021225

Lab Sample ID: 410-207884-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	8.2		3.5	0.97	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	14		1.8	0.53	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	12		1.8	0.44	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	6.6		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	14		1.8	0.80	ng/L	1		1633	Total/NA
Perfluorononanoic acid	7.3		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	1.2	J	1.8	0.44	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	4.0		1.8	0.44	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	3.7		1.8	0.71	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	11		1.8	0.44	ng/L	1		1633	Total/NA

Client Sample ID: EB-02-021225

Lab Sample ID: 410-207884-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1364

Job ID: 410-207884-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-30D-021125

Date Collected: 02/11/25 14:30
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-1

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**7.0**		3.5	0.97	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoropentanoic acid	**11**		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorohexanoic acid	**12**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoroheptanoic acid	**11**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorooctanoic acid	**46**		1.8	0.80	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorononanoic acid	**9.0**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorodecanoic acid	**0.97**	**J**	1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorobutanesulfonic acid	**3.5**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoropentanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorohexanesulfonic acid	**3.9**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoroheptanesulfonic acid	ND	cn	0.90	0.90	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorooctanesulfonic acid	**76**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorononanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorodecanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 17:47	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 17:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 17:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluorooctanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
NMeFOSA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
NMeFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
NEtFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 17:47	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 17:47	1
HFPO-DA	**0.71**	**J**	1.8	0.66	ng/L		02/17/25 10:23	02/17/25 17:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
PFEESA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 17:47	1
3:3 FTCA	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 17:47	1
5:3 FTCA	ND		8.8	2.5	ng/L		02/17/25 10:23	02/17/25 17:47	1
7:3 FTCA	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 17:47	1

Client Sample ID: MW-30D-021125 Lab Sample ID: 410-207884-1

Date Collected: 02/11/25 14:30 **Matrix: Water**
Date Received: 02/14/25 09:45

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	83.2		5 - 130	02/17/25 10:23	02/17/25 17:47	1
13C5 PFPeA	109	cn	40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C5 PFHxA	105	cn	40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C4 PFHpA	105	cn	40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C8 PFOA	75.1		40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C9 PFNA	72.7		40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C6 PFDA	73.5		40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C7 PFUnA	79.9	cn	30 - 130	02/17/25 10:23	02/17/25 17:47	1
13C2 PFTeDA	77.3	cn	10 - 130	02/17/25 10:23	02/17/25 17:47	1
13C3 PFBS	81.9		40 - 135	02/17/25 10:23	02/17/25 17:47	1
13C3 PFHxS	74.1		40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C8 PFOS	85.8		40 - 130	02/17/25 10:23	02/17/25 17:47	1
13C8 FOSA	84.6		40 - 130	02/17/25 10:23	02/17/25 17:47	1
d3-NMeFOSAA	82.4		40 - 170	02/17/25 10:23	02/17/25 17:47	1
d5-NEtFOSAA	86.9		25 - 135	02/17/25 10:23	02/17/25 17:47	1
M2-4:2 FTS	73.9		40 - 200	02/17/25 10:23	02/17/25 17:47	1
M2-6:2 FTS	68.8		40 - 200	02/17/25 10:23	02/17/25 17:47	1
M2-8:2 FTS	69.6		40 - 300	02/17/25 10:23	02/17/25 17:47	1
13C3 HFPO-DA	105	cn	40 - 130	02/17/25 10:23	02/17/25 17:47	1
d7-N-MeFOSE-M	83.6		10 - 130	02/17/25 10:23	02/17/25 17:47	1
d9-N-EtFOSE-M	79.8		10 - 130	02/17/25 10:23	02/17/25 17:47	1
d5-NEtPFOSA	58.9		10 - 130	02/17/25 10:23	02/17/25 17:47	1
d3-NMePFOSA	58.5		10 - 130	02/17/25 10:23	02/17/25 17:47	1
13C2 PFDoA	73.9		10 - 130	02/17/25 10:23	02/17/25 17:47	1

Client Sample ID: EB-01-021125 Lab Sample ID: 410-207884-2

Date Collected: 02/11/25 18:00 **Matrix: Water**
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		3.8	1.0	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoropentanoic acid	ND		1.9	0.57	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorohexanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoroheptanoic acid	ND		1.9	0.76	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorooctanoic acid	ND		1.9	0.85	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorononanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorodecanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoroundecanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorododecanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorotridecanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorotetradecanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorobutanesulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoropentanesulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorohexanesulfonic acid	ND		1.9	0.76	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoroheptanesulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorooctanesulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorononanesulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorodecanesulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.57	ng/L		02/17/25 10:23	02/17/25 18:01	1

Client Sample ID: EB-01-021125

Date Collected: 02/11/25 18:00
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-2

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.8	0.94	ng/L		02/17/25 10:23	02/17/25 18:01	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.8	0.94	ng/L		02/17/25 10:23	02/17/25 18:01	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.8	0.94	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluorooctanesulfonamide	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
NMeFOSA	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
NMeFOSAA	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
NEtFOSAA	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		9.4	2.4	ng/L		02/17/25 10:23	02/17/25 18:01	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		9.4	2.4	ng/L		02/17/25 10:23	02/17/25 18:01	1
HFPO-DA	ND		1.9	0.71	ng/L		02/17/25 10:23	02/17/25 18:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoro-3-methoxypropanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoro(4-methoxybutanoic acid)	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
PFEESA	ND		1.9	0.47	ng/L		02/17/25 10:23	02/17/25 18:01	1
3:3 FTCA	ND		3.8	0.94	ng/L		02/17/25 10:23	02/17/25 18:01	1
5:3 FTCA	ND		9.4	2.6	ng/L		02/17/25 10:23	02/17/25 18:01	1
7:3 FTCA	ND		9.4	2.4	ng/L		02/17/25 10:23	02/17/25 18:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.3*		*5 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C5 PFPeA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C5 PFHxA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C4 PFHpA	*108*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C8 PFOA	*77.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C9 PFNA	*78.0*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C6 PFDA	*85.5*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C7 PFUnA	*92.3*	*cn*	*30 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C2 PFTeDA	*80.8*	*cn*	*10 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C3 PFBS	*80.8*		*40 - 135*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C3 PFHxS	*76.5*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C8 PFOS	*93.8*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C8 FOSA	*80.4*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
d3-NMeFOSAA	*88.6*		*40 - 170*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
d5-NEtFOSAA	*92.3*		*25 - 135*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
M2-4:2 FTS	*70.3*		*40 - 200*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
M2-6:2 FTS	*71.8*		*40 - 200*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
M2-8:2 FTS	*70.3*		*40 - 300*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C3 HFPO-DA	*107*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*

Client Sample ID: EB-01-021125

Lab Sample ID: 410-207884-2

Date Collected: 02/11/25 18:00
Matrix: Water
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d7-N-MeFOSE-M	*81.8*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
d9-N-EtFOSE-M	*79.1*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
d5-NEtPFOSA	*55.1*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
d3-NMePFOSA	*53.1*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*
13C2 PFDoA	*85.3*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:01*	*1*

Client Sample ID: MW-33D-021225

Lab Sample ID: 410-207884-3

Date Collected: 02/12/25 11:45
Matrix: Water
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**6.1**		3.5	0.97	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoropentanoic acid	**12**		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorohexanoic acid	**10**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoroheptanoic acid	**7.1**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorooctanoic acid	**15**		1.8	0.80	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorononanoic acid	**8.1**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorodecanoic acid	**1.2**	**J**	1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorobutanesulfonic acid	**2.9**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoropentanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorohexanesulfonic acid	**3.6**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoroheptanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorooctanesulfonic acid	**14**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorononanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorodecanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 18:15	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 18:15	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	**2.9**	**J**	3.5	0.88	ng/L		02/17/25 10:23	02/17/25 18:15	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluorooctanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
NMeFOSA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
NMeFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
NEtFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 18:15	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 18:15	1
HFPO-DA	ND		1.8	0.66	ng/L		02/17/25 10:23	02/17/25 18:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1

Client Sample ID: MW-33D-021225

Date Collected: 02/12/25 11:45
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-3

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
PFEESA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 18:15	1
3:3 FTCA	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 18:15	1
5:3 FTCA	ND		8.8	2.5	ng/L		02/17/25 10:23	02/17/25 18:15	1
7:3 FTCA	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 18:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.0*		*5 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C5 PFPeA	*99.4*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C5 PFHxA	*104*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C4 PFHpA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C8 PFOA	*74.1*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C9 PFNA	*80.0*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C6 PFDA	*78.8*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C7 PFUnA	*87.9*	*cn*	*30 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C2 PFTeDA	*78.3*	*cn*	*10 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C3 PFBS	*86.8*		*40 - 135*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C3 PFHxS	*82.7*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C8 PFOS	*86.7*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C8 FOSA	*77.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
d3-NMeFOSAA	*85.8*		*40 - 170*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
d5-NEtFOSAA	*89.1*		*25 - 135*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
M2-4:2 FTS	*78.2*		*40 - 200*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
M2-6:2 FTS	*65.9*		*40 - 200*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
M2-8:2 FTS	*72.8*		*40 - 300*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C3 HFPO-DA	*106*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
d7-N-MeFOSE-M	*82.6*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
d9-N-EtFOSE-M	*83.8*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
d5-NEtPFOSA	*56.9*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
d3-NMePFOSA	*56.2*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*
13C2 PFDoA	*81.7*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:15*	*1*

Client Sample ID: VFCC-2-021225

Date Collected: 02/12/25 13:40
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-4

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**5.6**		3.6	0.98	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoropentanoic acid	**9.0**		1.8	0.54	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorohexanoic acid	**7.4**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoroheptanoic acid	**6.1**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorooctanoic acid	**19**		1.8	0.80	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorononanoic acid	**4.9**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorodecanoic acid	**0.78**	**J**	1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1

Client Sample ID: VFCC-2-021225

Date Collected: 02/12/25 13:40
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-4

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorobutanesulfonic acid	**2.9**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoropentanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorohexanesulfonic acid	**4.1**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoroheptanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorooctanesulfonic acid	**55**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorononanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorodecanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.54	ng/L		02/17/25 10:23	02/17/25 18:55	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 18:55	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 18:55	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluorooctanesulfonamide	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
NMeFOSA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
NMeFOSAA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
NEtFOSAA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 18:55	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 18:55	1
HFPO-DA	**0.92**	**J**	1.8	0.67	ng/L		02/17/25 10:23	02/17/25 18:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
PFEESA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 18:55	1
3:3 FTCA	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 18:55	1
5:3 FTCA	ND		8.9	2.5	ng/L		02/17/25 10:23	02/17/25 18:55	1
7:3 FTCA	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 18:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84.6*		*5 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C5 PFPeA	*107*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C5 PFHxA	*109*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C4 PFHpA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C8 PFOA	*76.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C9 PFNA	*77.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C6 PFDA	*80.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*

Client Sample ID: VFCC-2-021225

Lab Sample ID: 410-207884-4

Date Collected: 02/12/25 13:40
Matrix: Water
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C7 PFUnA	*85.1*	*cn*	*30 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C2 PFTeDA	*77.0*	*cn*	*10 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C3 PFBS	*87.9*		*40 - 135*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C3 PFHxS	*79.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C8 PFOS	*90.6*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C8 FOSA	*84.7*		*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
d3-NMeFOSAA	*88.7*		*40 - 170*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
d5-NEtFOSAA	*90.7*		*25 - 135*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
M2-4:2 FTS	*69.5*		*40 - 200*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
M2-6:2 FTS	*68.8*		*40 - 200*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
M2-8:2 FTS	*69.4*		*40 - 300*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C3 HFPO-DA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
d7-N-MeFOSE-M	*89.7*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
d9-N-EtFOSE-M	*88.7*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
d5-NEtPFOSA	*57.7*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
d3-NMePFOSA	*56.8*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*
13C2 PFDoA	*75.3*		*10 - 130*	*02/17/25 10:23*	*02/17/25 18:55*	*1*

Client Sample ID: VFCC-3-021225

Lab Sample ID: 410-207884-5

Date Collected: 02/12/25 13:20
Matrix: Water
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**5.4**		3.6	0.98	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoropentanoic acid	**9.0**		1.8	0.54	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorohexanoic acid	**8.2**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoroheptanoic acid	**5.8**		1.8	0.72	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorooctanoic acid	**22**		1.8	0.81	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorononanoic acid	**6.8**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorobutanesulfonic acid	**2.7**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoropentanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorohexanesulfonic acid	**2.7**		1.8	0.72	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoroheptanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorooctanesulfonic acid	**26**		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorononanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorodecanesulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.54	ng/L		02/17/25 10:23	02/17/25 19:09	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 19:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 19:09	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluorooctanesulfonamide	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1

Client Sample ID: VFCC-3-021225

Date Collected: 02/12/25 13:20
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-5

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
NMeFOSAA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
NEtFOSAA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 19:09	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 19:09	1
HFPO-DA	ND		1.8	0.67	ng/L		02/17/25 10:23	02/17/25 19:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
PFEESA	ND		1.8	0.45	ng/L		02/17/25 10:23	02/17/25 19:09	1
3:3 FTCA	ND		3.6	0.89	ng/L		02/17/25 10:23	02/17/25 19:09	1
5:3 FTCA	ND		8.9	2.5	ng/L		02/17/25 10:23	02/17/25 19:09	1
7:3 FTCA	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 19:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79.3*		*5 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C5 PFPeA	*100*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C5 PFHxA	*98.5*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C4 PFHpA	*102*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C8 PFOA	*76.4*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C9 PFNA	*73.7*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C6 PFDA	*70.6*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C7 PFUnA	*76.5*	*cn*	*30 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C2 PFTeDA	*73.0*	*cn*	*10 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C3 PFBS	*76.5*		*40 - 135*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C3 PFHxS	*77.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C8 PFOS	*81.7*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C8 FOSA	*73.0*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
d3-NMeFOSAA	*82.5*		*40 - 170*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
d5-NEtFOSAA	*81.4*		*25 - 135*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
M2-4:2 FTS	*66.7*		*40 - 200*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
M2-6:2 FTS	*55.9*		*40 - 200*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
M2-8:2 FTS	*63.3*		*40 - 300*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C3 HFPO-DA	*108*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
d7-N-MeFOSE-M	*81.6*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
d9-N-EtFOSE-M	*77.7*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
d5-NEtPFOSA	*54.3*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
d3-NMePFOSA	*53.8*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*
13C2 PFDoA	*72.9*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:09*	*1*

Client Sample ID: MW-33S-021225

Date Collected: 02/12/25 14:35
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-6

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**8.1**		3.5	0.98	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoropentanoic acid	**15**		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorohexanoic acid	**12**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoroheptanoic acid	**7.1**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorooctanoic acid	**15**		1.8	0.80	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorononanoic acid	**7.5**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorodecanoic acid	**1.5**	**J**	1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorobutanesulfonic acid	**4.1**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoropentanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorohexanesulfonic acid	**3.4**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoroheptanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorooctanesulfonic acid	**11**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorononanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorodecanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 19:22	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.89	ng/L		02/17/25 10:23	02/17/25 19:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.5	0.89	ng/L		02/17/25 10:23	02/17/25 19:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.89	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluorooctanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
NMeFOSA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
NMeFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
NEtFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 19:22	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 19:22	1
HFPO-DA	ND		1.8	0.66	ng/L		02/17/25 10:23	02/17/25 19:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
PFEESA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:22	1
3:3 FTCA	ND		3.5	0.89	ng/L		02/17/25 10:23	02/17/25 19:22	1
5:3 FTCA	ND		8.9	2.5	ng/L		02/17/25 10:23	02/17/25 19:22	1
7:3 FTCA	ND		8.9	2.2	ng/L		02/17/25 10:23	02/17/25 19:22	1

Client Sample ID: MW-33S-021225

Lab Sample ID: 410-207884-6

Date Collected: 02/12/25 14:35

Matrix: Water

Date Received: 02/14/25 09:45

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90.7		5 - 130	02/17/25 10:23	02/17/25 19:22	1
13C5 PFPeA	117	cn	40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C5 PFHxA	112	cn	40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C4 PFHpA	121	cn	40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C8 PFOA	84.5		40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C9 PFNA	79.7		40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C6 PFDA	78.7		40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C7 PFUnA	84.2	cn	30 - 130	02/17/25 10:23	02/17/25 19:22	1
13C2 PFTeDA	79.3	cn	10 - 130	02/17/25 10:23	02/17/25 19:22	1
13C3 PFBS	87.0		40 - 135	02/17/25 10:23	02/17/25 19:22	1
13C3 PFHxS	80.9		40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C8 PFOS	93.3		40 - 130	02/17/25 10:23	02/17/25 19:22	1
13C8 FOSA	81.5		40 - 130	02/17/25 10:23	02/17/25 19:22	1
d3-NMeFOSAA	84.4		40 - 170	02/17/25 10:23	02/17/25 19:22	1
d5-NEtFOSAA	85.2		25 - 135	02/17/25 10:23	02/17/25 19:22	1
M2-4:2 FTS	73.9		40 - 200	02/17/25 10:23	02/17/25 19:22	1
M2-6:2 FTS	71.6		40 - 200	02/17/25 10:23	02/17/25 19:22	1
M2-8:2 FTS	66.5		40 - 300	02/17/25 10:23	02/17/25 19:22	1
13C3 HFPO-DA	118	cn	40 - 130	02/17/25 10:23	02/17/25 19:22	1
d7-N-MeFOSE-M	87.6		10 - 130	02/17/25 10:23	02/17/25 19:22	1
d9-N-EtFOSE-M	86.3		10 - 130	02/17/25 10:23	02/17/25 19:22	1
d5-NEtPFOSA	61.8		10 - 130	02/17/25 10:23	02/17/25 19:22	1
d3-NMePFOSA	62.6		10 - 130	02/17/25 10:23	02/17/25 19:22	1
13C2 PFDoA	82.0		10 - 130	02/17/25 10:23	02/17/25 19:22	1

Client Sample ID: MW-33S-FD-021225

Lab Sample ID: 410-207884-7

Date Collected: 02/12/25 14:35

Matrix: Water

Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**8.2**		3.5	0.97	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoropentanoic acid	**14**		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorohexanoic acid	**12**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoroheptanoic acid	**6.6**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorooctanoic acid	**14**		1.8	0.80	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorononanoic acid	**7.3**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorodecanoic acid	**1.2**	J	1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorobutanesulfonic acid	**4.0**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoropentanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorohexanesulfonic acid	**3.7**		1.8	0.71	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoroheptanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorooctanesulfonic acid	**11**		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorononanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorodecanesulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53	ng/L		02/17/25 10:23	02/17/25 19:36	1

Client Sample ID: MW-33S-FD-021225

Date Collected: 02/12/25 14:35
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-7

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 19:36	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 19:36	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluorooctanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
NMeFOSA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
NMeFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
NEtFOSAA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 19:36	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 19:36	1
HFPO-DA	ND		1.8	0.66	ng/L		02/17/25 10:23	02/17/25 19:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
PFEESA	ND		1.8	0.44	ng/L		02/17/25 10:23	02/17/25 19:36	1
3:3 FTCA	ND		3.5	0.88	ng/L		02/17/25 10:23	02/17/25 19:36	1
5:3 FTCA	ND		8.8	2.5	ng/L		02/17/25 10:23	02/17/25 19:36	1
7:3 FTCA	ND		8.8	2.2	ng/L		02/17/25 10:23	02/17/25 19:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83.1*		*5 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C5 PFPeA	*106*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C5 PFHxA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C4 PFHpA	*104*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C8 PFOA	*77.6*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C9 PFNA	*73.5*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C6 PFDA	*78.2*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C7 PFUnA	*82.4*	*cn*	*30 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C2 PFTeDA	*77.6*	*cn*	*10 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C3 PFBS	*84.2*		*40 - 135*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C3 PFHxS	*76.6*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C8 PFOS	*83.1*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C8 FOSA	*73.3*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
d3-NMeFOSAA	*69.3*		*40 - 170*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
d5-NEtFOSAA	*77.6*		*25 - 135*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
M2-4:2 FTS	*67.5*		*40 - 200*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
M2-6:2 FTS	*64.5*		*40 - 200*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
M2-8:2 FTS	*63.2*		*40 - 300*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C3 HFPO-DA	*102*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*

Client Sample ID: MW-33S-FD-021225 Lab Sample ID: 410-207884-7

Date Collected: 02/12/25 14:35 **Matrix: Water**
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d7-N-MeFOSE-M	*77.6*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
d9-N-EtFOSE-M	*75.8*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
d5-NEtPFOSA	*53.5*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
d3-NMePFOSA	*53.4*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*
13C2 PFDoA	*77.0*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:36*	*1*

Client Sample ID: EB-02-021225 Lab Sample ID: 410-207884-8

Date Collected: 02/12/25 15:06 **Matrix: Water**
Date Received: 02/14/25 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		3.7	1.0	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoropentanoic acid	ND		1.8	0.55	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorohexanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoroheptanoic acid	ND		1.8	0.74	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorooctanoic acid	ND		1.8	0.83	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorononanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorobutanesulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoropentanesulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorohexanesulfonic acid	ND		1.8	0.74	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoroheptanesulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorooctanesulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorononanesulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorodecanesulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.55	ng/L		02/17/25 10:23	02/17/25 19:50	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.7	0.92	ng/L		02/17/25 10:23	02/17/25 19:50	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.7	0.92	ng/L		02/17/25 10:23	02/17/25 19:50	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.7	0.92	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluorooctanesulfonamide	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
NMeFOSA	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
NMeFOSAA	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
NEtFOSAA	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		9.2	2.3	ng/L		02/17/25 10:23	02/17/25 19:50	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		9.2	2.3	ng/L		02/17/25 10:23	02/17/25 19:50	1
HFPO-DA	ND		1.8	0.69	ng/L		02/17/25 10:23	02/17/25 19:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1

Client Sample ID: EB-02-021225
Date Collected: 02/12/25 15:06
Date Received: 02/14/25 09:45

Lab Sample ID: 410-207884-8
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
PFEESA	ND		1.8	0.46	ng/L		02/17/25 10:23	02/17/25 19:50	1
3:3 FTCA	ND		3.7	0.92	ng/L		02/17/25 10:23	02/17/25 19:50	1
5:3 FTCA	ND		9.2	2.6	ng/L		02/17/25 10:23	02/17/25 19:50	1
7:3 FTCA	ND		9.2	2.3	ng/L		02/17/25 10:23	02/17/25 19:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84.5*		*5 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C5 PFPeA	*107*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C5 PFHxA	*100*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C4 PFHpA	*103*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C8 PFOA	*80.1*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C9 PFNA	*75.0*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C6 PFDA	*80.1*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C7 PFUnA	*93.5*	*cn*	*30 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C2 PFTeDA	*69.0*	*cn*	*10 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C3 PFBS	*90.2*		*40 - 135*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C3 PFHxS	*88.6*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C8 PFOS	*89.3*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C8 FOSA	*84.8*		*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
d3-NMeFOSAA	*98.3*		*40 - 170*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
d5-NEtFOSAA	*94.0*		*25 - 135*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
M2-4:2 FTS	*78.3*		*40 - 200*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
M2-6:2 FTS	*109*		*40 - 200*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
M2-8:2 FTS	*91.8*		*40 - 300*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C3 HFPO-DA	*105*	*cn*	*40 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
d7-N-MeFOSE-M	*88.3*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
d9-N-EtFOSE-M	*88.6*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
d5-NEtPFOSA	*68.5*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
d3-NMePFOSA	*67.4*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*
13C2 PFDoA	*94.7*		*10 - 130*	*02/17/25 10:23*	*02/17/25 19:50*	*1*

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-606716/1-A
Matrix: Water
Analysis Batch: 606840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.0	1.1	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoropentanoic acid	ND		2.0	0.60	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoroheptanoic acid	ND		2.0	0.80	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorooctanoic acid	ND		2.0	0.90	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorohexanesulfonic acid	ND		2.0	0.80	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorononanesulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.60	ng/L		02/17/25 10:23	02/17/25 17:06	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		4.0	1.0	ng/L		02/17/25 10:23	02/17/25 17:06	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.0	1.0	ng/L		02/17/25 10:23	02/17/25 17:06	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		4.0	1.0	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
NMeFOSA	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
NMeFOSAA	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
NEtFOSAA	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		10	2.5	ng/L		02/17/25 10:23	02/17/25 17:06	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		10	2.5	ng/L		02/17/25 10:23	02/17/25 17:06	1
HFPO-DA	ND		2.0	0.75	ng/L		02/17/25 10:23	02/17/25 17:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoro-3-methoxypropanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoro(4-methoxybutanoic acid)	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
Perfluoro-3,6-dioxaheptanoic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
PFEESA	ND		2.0	0.50	ng/L		02/17/25 10:23	02/17/25 17:06	1
3:3 FTCA	ND		4.0	1.0	ng/L		02/17/25 10:23	02/17/25 17:06	1
5:3 FTCA	ND		10	2.8	ng/L		02/17/25 10:23	02/17/25 17:06	1
7:3 FTCA	ND		10	2.5	ng/L		02/17/25 10:23	02/17/25 17:06	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	120		5 - 130	02/17/25 10:23	02/17/25 17:06	1
13C5 PFPeA	144	*5+	40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C5 PFHxA	137	*5+	40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C4 PFHpA	156	*5+	40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C8 PFOA	105		40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C9 PFNA	107		40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C6 PFDA	114		40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C7 PFUnA	131	*5+	30 - 130	02/17/25 10:23	02/17/25 17:06	1
13C2 PFTeDA	131	*5+	10 - 130	02/17/25 10:23	02/17/25 17:06	1
13C3 PFBS	124		40 - 135	02/17/25 10:23	02/17/25 17:06	1
13C3 PFHxS	112		40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C8 PFOS	123		40 - 130	02/17/25 10:23	02/17/25 17:06	1
13C8 FOSA	111		40 - 130	02/17/25 10:23	02/17/25 17:06	1
d3-NMeFOSAA	119		40 - 170	02/17/25 10:23	02/17/25 17:06	1
d5-NEtFOSAA	120		25 - 135	02/17/25 10:23	02/17/25 17:06	1
M2-4:2 FTS	103		40 - 200	02/17/25 10:23	02/17/25 17:06	1
M2-6:2 FTS	101		40 - 200	02/17/25 10:23	02/17/25 17:06	1
M2-8:2 FTS	107		40 - 300	02/17/25 10:23	02/17/25 17:06	1
13C3 HFPO-DA	138	*5+	40 - 130	02/17/25 10:23	02/17/25 17:06	1
d7-N-MeFOSE-M	114		10 - 130	02/17/25 10:23	02/17/25 17:06	1
d9-N-EtFOSE-M	112		10 - 130	02/17/25 10:23	02/17/25 17:06	1
d5-NEtPFOSA	78.0		10 - 130	02/17/25 10:23	02/17/25 17:06	1
d3-NMePFOSA	81.2		10 - 130	02/17/25 10:23	02/17/25 17:06	1
13C2 PFDoA	123		10 - 130	02/17/25 10:23	02/17/25 17:06	1

Lab Sample ID: LCS 410-606716/2-A
Matrix: Water
Analysis Batch: 606840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	80.0	83.9		ng/L		105	70 - 140
Perfluoropentanoic acid	40.0	44.7		ng/L		112	65 - 135
Perfluorohexanoic acid	40.0	44.8		ng/L		112	70 - 145
Perfluoroheptanoic acid	40.0	44.8		ng/L		112	70 - 150
Perfluorooctanoic acid	40.0	46.1		ng/L		115	70 - 150
Perfluorononanoic acid	40.0	42.0		ng/L		105	70 - 150
Perfluorodecanoic acid	40.0	43.1		ng/L		108	70 - 140
Perfluoroundecanoic acid	40.0	38.5		ng/L		96	70 - 145
Perfluorododecanoic acid	40.0	42.2		ng/L		105	70 - 140
Perfluorotridecanoic acid	40.0	38.1		ng/L		95	65 - 140
Perfluorotetradecanoic acid	40.0	44.0		ng/L		110	60 - 140
Perfluorobutanesulfonic acid	35.5	40.0		ng/L		113	60 - 145
Perfluoropentanesulfonic acid	37.6	40.8		ng/L		109	65 - 140
Perfluorohexanesulfonic acid	36.5	43.0		ng/L		118	65 - 145
Perfluoroheptanesulfonic acid	38.2	38.7		ng/L		102	70 - 150
Perfluorooctanesulfonic acid	37.2	36.0		ng/L		97	55 - 150
Perfluorononanesulfonic acid	38.5	39.6		ng/L		103	65 - 145
Perfluorodecanesulfonic acid	38.6	40.2		ng/L		104	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.8		ng/L		100	50 - 145
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	74.7	82.5		ng/L		110	70 - 145

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-606716/2-A
Matrix: Water
Analysis Batch: 606840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	75.8	74.0		ng/L		98	65 - 155
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	76.6	82.6		ng/L		108	60 - 150
Perfluorooctanesulfonamide	40.0	42.9		ng/L		107	70 - 145
NMeFOSA	40.0	46.0		ng/L		115	60 - 150
N-ethylperfluoro-1-octanesulfonamide	40.0	44.3		ng/L		111	65 - 145
NMeFOSAA	40.0	37.0		ng/L		92	50 - 140
NEtFOSAA	40.0	39.9		ng/L		100	70 - 145
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	200	212		ng/L		106	70 - 145
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	200	203		ng/L		102	70 - 135
HFPO-DA	30.0	34.4		ng/L		115	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	34.0		ng/L		90	65 - 145
Perfluoro-3-methoxypropanoic acid	40.0	41.4		ng/L		104	55 - 140
Perfluoro(4-methoxybutanoic acid)	40.0	43.4		ng/L		109	60 - 150
Perfluoro-3,6-dioxaheptanoic acid	40.0	42.8		ng/L		107	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	42.8		ng/L		114	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	41.9		ng/L		111	55 - 160
PFEESA	35.7	35.7		ng/L		100	70 - 140
3:3 FTCA	80.0	83.1		ng/L		104	65 - 130
5:3 FTCA	200	180		ng/L		90	70 - 135
7:3 FTCA	200	143		ng/L		72	50 - 145

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*90.3*		*5 - 130*
13C5 PFPeA	*106*		*40 - 130*
13C5 PFHxA	*107*		*40 - 130*
13C4 PFHpA	*115*		*40 - 130*
13C8 PFOA	*83.1*		*40 - 130*
13C9 PFNA	*79.5*		*40 - 130*
13C6 PFDA	*84.5*		*40 - 130*
13C7 PFUnA	*88.6*		*30 - 130*
13C2 PFTeDA	*85.2*		*10 - 130*
13C3 PFBS	*91.6*		*40 - 135*
13C3 PFHxS	*86.4*		*40 - 130*
13C8 PFOS	*99.3*		*40 - 130*
13C8 FOSA	*80.3*		*40 - 130*
d3-NMeFOSAA	*92.9*		*40 - 170*
d5-NEtFOSAA	*95.2*		*25 - 135*
M2-4:2 FTS	*80.8*		*40 - 200*
M2-6:2 FTS	*79.4*		*40 - 200*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-606716/2-A
Matrix: Water
Analysis Batch: 606840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606716

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	81.2		40 - 300
13C3 HFPO-DA	109		40 - 130
d7-N-MeFOSE-M	85.7		10 - 130
d9-N-EtFOSE-M	84.5		10 - 130
d5-NEtPFOSA	55.7		10 - 130
d3-NMePFOSA	55.0		10 - 130
13C2 PFDoA	84.1		10 - 130

Lab Sample ID: LLCS 410-606716/3-A
Matrix: Water
Analysis Batch: 606840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	8.00	8.92		ng/L		112	70 - 140
Perfluoropentanoic acid	4.00	5.05		ng/L		126	65 - 135
Perfluorohexanoic acid	4.00	4.95		ng/L		124	70 - 145
Perfluoroheptanoic acid	4.00	4.90		ng/L		122	70 - 150
Perfluorooctanoic acid	4.00	4.62		ng/L		116	70 - 150
Perfluorononanoic acid	4.00	5.28		ng/L		132	70 - 150
Perfluorodecanoic acid	4.00	4.77		ng/L		119	70 - 140
Perfluoroundecanoic acid	4.00	4.61		ng/L		115	70 - 145
Perfluorododecanoic acid	4.00	4.39		ng/L		110	70 - 140
Perfluorotridecanoic acid	4.00	4.13		ng/L		103	65 - 140
Perfluorotetradecanoic acid	4.00	4.57		ng/L		114	60 - 140
Perfluorobutanesulfonic acid	3.55	4.17		ng/L		117	60 - 145
Perfluoropentanesulfonic acid	3.76	4.65		ng/L		124	65 - 140
Perfluorohexanesulfonic acid	3.65	5.13		ng/L		141	65 - 145
Perfluoroheptanesulfonic acid	3.82	3.90		ng/L		102	70 - 150
Perfluorooctanesulfonic acid	3.72	4.00		ng/L		108	55 - 150
Perfluorononanesulfonic acid	3.85	4.36		ng/L		113	65 - 145
Perfluorodecanesulfonic acid	3.86	4.45		ng/L		115	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.80		ng/L		98	50 - 145
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.47	8.18		ng/L		110	70 - 145
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	7.58	8.67		ng/L		114	65 - 155
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	7.66	8.52		ng/L		111	60 - 150
Perfluorooctanesulfonamide	4.00	4.55		ng/L		114	70 - 145
NMeFOSA	4.00	4.84		ng/L		121	60 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	4.65		ng/L		116	65 - 145
NMeFOSAA	4.00	4.38		ng/L		109	50 - 140
NEtFOSAA	4.00	4.13		ng/L		103	70 - 145
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	20.0	23.2		ng/L		116	70 - 145
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	20.0	23.9		ng/L		119	70 - 135

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-606716/3-A
Matrix: Water
Analysis Batch: 606840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	3.00	3.76		ng/L		125	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.40		ng/L		116	65 - 145
Perfluoro-3-methoxypropanoic acid	4.00	4.40		ng/L		110	55 - 140
Perfluoro(4-methoxybutanoic acid)	4.00	4.55		ng/L		114	60 - 150
Perfluoro-3,6-dioxaheptanoic acid	4.00	4.19		ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	4.55		ng/L		122	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	4.56		ng/L		121	55 - 160
PFEESA	3.56	3.96		ng/L		111	70 - 140
3:3 FTCA	8.00	7.95		ng/L		99	65 - 130
5:3 FTCA	20.0	18.9		ng/L		94	70 - 135
7:3 FTCA	20.0	15.8		ng/L		79	50 - 145

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*89.3*		*5 - 130*
13C5 PFPeA	*107*		*40 - 130*
13C5 PFHxA	*108*		*40 - 130*
13C4 PFHpA	*111*		*40 - 130*
13C8 PFOA	*79.6*		*40 - 130*
13C9 PFNA	*79.9*		*40 - 130*
13C6 PFDA	*84.6*		*40 - 130*
13C7 PFUnA	*90.2*		*30 - 130*
13C2 PFTeDA	*86.6*		*10 - 130*
13C3 PFBS	*94.6*		*40 - 135*
13C3 PFHxS	*83.6*		*40 - 130*
13C8 PFOS	*92.2*		*40 - 130*
13C8 FOSA	*74.6*		*40 - 130*
d3-NMeFOSAA	*92.1*		*40 - 170*
d5-NEtFOSAA	*91.6*		*25 - 135*
M2-4:2 FTS	*81.6*		*40 - 200*
M2-6:2 FTS	*80.6*		*40 - 200*
M2-8:2 FTS	*79.7*		*40 - 300*
13C3 HFPO-DA	*108*		*40 - 130*
d7-N-MeFOSE-M	*79.3*		*10 - 130*
d9-N-EtFOSE-M	*77.7*		*10 - 130*
d5-NEtPFOSA	*51.9*		*10 - 130*
d3-NMePFOSA	*51.0*		*10 - 130*
13C2 PFDoA	*84.4*		*10 - 130*

Lab Sample ID: 410-207884-3 MS
Matrix: Water
Analysis Batch: 606840

Client Sample ID: MW-33D-021225MS
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	6.1		70.3	85.6		ng/L		113	70 - 140

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-207884-3 MS
Matrix: Water
Analysis Batch: 606840

Client Sample ID: MW-33D-021225MS
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid	12		35.2	50.2		ng/L		109	65 - 135
Perfluorohexanoic acid	10		35.2	45.6		ng/L		100	70 - 145
Perfluoroheptanoic acid	7.1		35.2	45.9		ng/L		110	70 - 150
Perfluorooctanoic acid	15		35.2	54.9		ng/L		112	70 - 150
Perfluorononanoic acid	8.1		35.2	47.3		ng/L		112	70 - 150
Perfluorodecanoic acid	1.2	J	35.2	40.5		ng/L		112	70 - 140
Perfluoroundecanoic acid	ND		35.2	36.9		ng/L		105	70 - 145
Perfluorododecanoic acid	ND		35.2	39.5		ng/L		112	70 - 140
Perfluorotridecanoic acid	ND		35.2	35.8		ng/L		102	65 - 140
Perfluorotetradecanoic acid	ND		35.2	39.8		ng/L		113	60 - 140
Perfluorobutanesulfonic acid	2.9		31.2	38.5		ng/L		114	60 - 145
Perfluoropentanesulfonic acid	ND		33.1	36.8		ng/L		111	65 - 140
Perfluorohexanesulfonic acid	3.6		32.1	40.9		ng/L		116	65 - 145
Perfluoroheptanesulfonic acid	ND		33.5	34.6		ng/L		103	70 - 150
Perfluorooctanesulfonic acid	14		32.7	49.3		ng/L		108	55 - 150
Perfluorononanesulfonic acid	ND		33.8	36.1		ng/L		107	65 - 145
Perfluorodecanesulfonic acid	ND		33.9	37.6		ng/L		111	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	ND		34.1	35.8		ng/L		105	50 - 145
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		65.7	79.3		ng/L		121	70 - 145
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.9	J	66.7	76.1		ng/L		110	65 - 155
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		67.4	74.3		ng/L		110	60 - 150
Perfluorooctanesulfonamide	ND		35.2	37.3		ng/L		106	70 - 145
NMeFOSA	ND		35.2	37.5		ng/L		107	60 - 150
N-ethylperfluoro-1-octanesulfonamide	ND		35.2	39.8		ng/L		113	65 - 145
NMeFOSAA	ND		35.2	35.4		ng/L		101	50 - 140
NEtFOSAA	ND		35.2	38.5		ng/L		110	70 - 145
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		176	184		ng/L		105	70 - 145
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		176	179		ng/L		102	70 - 135
HFPO-DA	ND		26.4	32.3		ng/L		122	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		33.3	32.0		ng/L		96	65 - 145
Perfluoro-3-methoxypropanoic acid	ND		35.2	39.5		ng/L		112	55 - 140
Perfluoro(4-methoxybutanoic acid)	ND		35.2	38.1		ng/L		108	60 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND		35.2	37.4		ng/L		106	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		32.8	39.4		ng/L		120	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		33.2	39.9		ng/L		120	55 - 160
PFEESA	ND		31.4	31.9		ng/L		102	70 - 140
3:3 FTCA	ND		70.3	73.6		ng/L		105	65 - 130

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-207884-3 MS
Matrix: Water
Analysis Batch: 606840

Client Sample ID: MW-33D-021225MS
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	ND		176	169		ng/L		96	70 - 135
7:3 FTCA	ND		176	152		ng/L		87	50 - 145

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*81.9*		*5 - 130*
13C5 PFPeA	*100*	*cn*	*40 - 130*
13C5 PFHxA	*105*	*cn*	*40 - 130*
13C4 PFHpA	*99.6*	*cn*	*40 - 130*
13C8 PFOA	*76.2*		*40 - 130*
13C9 PFNA	*73.5*		*40 - 130*
13C6 PFDA	*75.7*		*40 - 130*
13C7 PFUnA	*82.9*	*cn*	*30 - 130*
13C2 PFTeDA	*77.4*	*cn*	*10 - 130*
13C3 PFBS	*80.9*		*40 - 135*
13C3 PFHxS	*77.0*		*40 - 130*
13C8 PFOS	*85.4*		*40 - 130*
13C8 FOSA	*75.8*		*40 - 130*
d3-NMeFOSAA	*79.4*		*40 - 170*
d5-NEtFOSAA	*80.7*		*25 - 135*
M2-4:2 FTS	*70.4*		*40 - 200*
M2-6:2 FTS	*66.1*		*40 - 200*
M2-8:2 FTS	*66.1*		*40 - 300*
13C3 HFPO-DA	*96.1*	*cn*	*40 - 130*
d7-N-MeFOSE-M	*79.1*		*10 - 130*
d9-N-EtFOSE-M	*79.0*		*10 - 130*
d5-NEtPFOSA	*50.9*		*10 - 130*
d3-NMePFOSA	*53.7*		*10 - 130*
13C2 PFDoA	*76.0*		*10 - 130*

Lab Sample ID: 410-207884-3 MSD
Matrix: Water
Analysis Batch: 606840

Client Sample ID: MW-33D-021225MSD
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	6.1		70.4	80.0		ng/L		105	70 - 140	7	30
Perfluoropentanoic acid	12		35.2	50.5		ng/L		110	65 - 135	1	30
Perfluorohexanoic acid	10		35.2	46.3		ng/L		102	70 - 145	2	30
Perfluoroheptanoic acid	7.1		35.2	47.4		ng/L		114	70 - 150	3	30
Perfluorooctanoic acid	15		35.2	53.4		ng/L		108	70 - 150	3	30
Perfluorononanoic acid	8.1		35.2	49.0		ng/L		116	70 - 150	4	30
Perfluorodecanoic acid	1.2	J	35.2	37.9		ng/L		104	70 - 140	7	30
Perfluoroundecanoic acid	ND		35.2	35.8		ng/L		102	70 - 145	3	30
Perfluorododecanoic acid	ND		35.2	39.0		ng/L		111	70 - 140	1	30
Perfluorotridecanoic acid	ND		35.2	37.7		ng/L		107	65 - 140	5	30
Perfluorotetradecanoic acid	ND		35.2	39.7		ng/L		113	60 - 140	0	30
Perfluorobutanesulfonic acid	2.9		31.2	38.6		ng/L		114	60 - 145	0	30
Perfluoropentanesulfonic acid	ND		33.1	36.1		ng/L		109	65 - 140	2	30
Perfluorohexanesulfonic acid	3.6		32.1	42.7		ng/L		122	65 - 145	4	30
Perfluoroheptanesulfonic acid	ND		33.6	33.2		ng/L		99	70 - 150	4	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-207884-3 MSD
Matrix: Water
Analysis Batch: 606840

Client Sample ID: MW-33D-021225MSD
Prep Type: Total/NA
Prep Batch: 606716

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	14		32.7	42.4		ng/L		87	55 - 150	15	30
Perfluorononanesulfonic acid	ND		33.8	33.1		ng/L		98	65 - 145	9	30
Perfluorodecanesulfonic acid	ND		33.9	32.2		ng/L		95	60 - 145	15	30
Perfluorododecanesulfonic acid (PFDoS)	ND		34.1	32.3		ng/L		95	50 - 145	10	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		65.7	77.0		ng/L		117	70 - 145	3	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.9	J	66.7	75.0		ng/L		108	65 - 155	1	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		67.4	76.2		ng/L		113	60 - 150	3	30
Perfluorooctanesulfonamide	ND		35.2	36.5		ng/L		104	70 - 145	2	30
NMeFOSA	ND		35.2	37.4		ng/L		106	60 - 150	0	30
N-ethylperfluoro-1-octanesulfonamide	ND		35.2	35.4		ng/L		100	65 - 145	12	30
NMeFOSAA	ND		35.2	37.0		ng/L		105	50 - 140	5	30
NEtFOSAA	ND		35.2	37.8		ng/L		107	70 - 145	2	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		176	182		ng/L		104	70 - 145	1	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		176	169		ng/L		96	70 - 135	6	30
HFPO-DA	ND		26.4	29.8		ng/L		113	70 - 140	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		33.3	31.2		ng/L		94	65 - 145	3	30
Perfluoro-3-methoxypropanoic acid	ND		35.2	36.3		ng/L		103	55 - 140	9	30
Perfluoro(4-methoxybutanoic acid)	ND		35.2	36.5		ng/L		104	60 - 150	4	30
Perfluoro-3,6-dioxaheptanoic acid	ND		35.2	36.4		ng/L		103	50 - 150	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		32.9	38.9		ng/L		118	70 - 155	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		33.2	38.0		ng/L		115	55 - 160	5	30
PFEESA	ND		31.4	33.3		ng/L		106	70 - 140	4	30
3:3 FTCA	ND		70.4	68.8		ng/L		98	65 - 130	7	30
5:3 FTCA	ND		176	162		ng/L		92	70 - 135	4	30
7:3 FTCA	ND		176	151		ng/L		86	50 - 145	1	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*81.8*		*5 - 130*
13C5 PFPeA	*111*	*cn*	*40 - 130*
13C5 PFHxA	*110*	*cn*	*40 - 130*
13C4 PFHpA	*107*	*cn*	*40 - 130*
13C8 PFOA	*77.1*		*40 - 130*
13C9 PFNA	*72.0*		*40 - 130*
13C6 PFDA	*78.2*		*40 - 130*
13C7 PFUnA	*87.0*	*cn*	*30 - 130*
13C2 PFTeDA	*80.8*	*cn*	*10 - 130*
13C3 PFBS	*80.5*		*40 - 135*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-207884-3 MSD
Matrix: Water
Analysis Batch: 606840

Client Sample ID: MW-33D-021225MSD
Prep Type: Total/NA
Prep Batch: 606716

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 PFHxS	76.8		40 - 130
13C8 PFOS	92.5		40 - 130
13C8 FOSA	76.1		40 - 130
d3-NMeFOSAA	77.1		40 - 170
d5-NEtFOSAA	83.3		25 - 135
M2-4:2 FTS	67.8		40 - 200
M2-6:2 FTS	64.4		40 - 200
M2-8:2 FTS	65.6		40 - 300
13C3 HFPO-DA	107	cn	40 - 130
d7-N-MeFOSE-M	81.7		10 - 130
d9-N-EtFOSE-M	84.1		10 - 130
d5-NEtPFOSA	71.2		10 - 130
d3-NMePFOSA	68.3		10 - 130
13C2 PFDoA	75.6		10 - 130

QC Association Summary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1364

Job ID: 410-207884-1

LCMS

Prep Batch: 606716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207884-1	MW-30D-021125	Total/NA	Water	1633	
410-207884-2	EB-01-021125	Total/NA	Water	1633	
410-207884-3	MW-33D-021225	Total/NA	Water	1633	
410-207884-4	VFCC-2-021225	Total/NA	Water	1633	
410-207884-5	VFCC-3-021225	Total/NA	Water	1633	
410-207884-6	MW-33S-021225	Total/NA	Water	1633	
410-207884-7	MW-33S-FD-021225	Total/NA	Water	1633	
410-207884-8	EB-02-021225	Total/NA	Water	1633	
MB 410-606716/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-606716/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-606716/3-A	Lab Control Sample	Total/NA	Water	1633	
410-207884-3 MS	MW-33D-021225MS	Total/NA	Water	1633	
410-207884-3 MSD	MW-33D-021225MSD	Total/NA	Water	1633	

Analysis Batch: 606840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207884-1	MW-30D-021125	Total/NA	Water	1633	606716
410-207884-2	EB-01-021125	Total/NA	Water	1633	606716
410-207884-3	MW-33D-021225	Total/NA	Water	1633	606716
410-207884-4	VFCC-2-021225	Total/NA	Water	1633	606716
410-207884-5	VFCC-3-021225	Total/NA	Water	1633	606716
410-207884-6	MW-33S-021225	Total/NA	Water	1633	606716
410-207884-7	MW-33S-FD-021225	Total/NA	Water	1633	606716
410-207884-8	EB-02-021225	Total/NA	Water	1633	606716
MB 410-606716/1-A	Method Blank	Total/NA	Water	1633	606716
LCS 410-606716/2-A	Lab Control Sample	Total/NA	Water	1633	606716
LLCS 410-606716/3-A	Lab Control Sample	Total/NA	Water	1633	606716
410-207884-3 MS	MW-33D-021225MS	Total/NA	Water	1633	606716
410-207884-3 MSD	MW-33D-021225MSD	Total/NA	Water	1633	606716

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: Q1364

Job ID: 410-207884-1

Client Sample ID: MW-30D-021125
Lab Sample ID: 410-207884-1
Date Collected: 02/11/25 14:30
Matrix: Water
Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 17:47

Client Sample ID: EB-01-021125
Lab Sample ID: 410-207884-2
Date Collected: 02/11/25 18:00
Matrix: Water
Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 18:01

Client Sample ID: MW-33D-021225
Lab Sample ID: 410-207884-3
Date Collected: 02/12/25 11:45
Matrix: Water
Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 18:15

Client Sample ID: VFCC-2-021225
Lab Sample ID: 410-207884-4
Date Collected: 02/12/25 13:40
Matrix: Water
Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 18:55

Client Sample ID: VFCC-3-021225
Lab Sample ID: 410-207884-5
Date Collected: 02/12/25 13:20
Matrix: Water
Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 19:09

Client Sample ID: MW-33S-021225
Lab Sample ID: 410-207884-6
Date Collected: 02/12/25 14:35
Matrix: Water
Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 19:22

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: Q1364

Job ID: 410-207884-1

Client Sample ID: MW-33S-FD-021225

Lab Sample ID: 410-207884-7

Date Collected: 02/12/25 14:35

Matrix: Water

Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 19:36

Client Sample ID: EB-02-021225

Lab Sample ID: 410-207884-8

Date Collected: 02/12/25 15:06

Matrix: Water

Date Received: 02/14/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			606716	W2FB	ELLE	02/17/25 10:23
Total/NA	Analysis	1633		1	606840	JU9U	ELLE	02/17/25 19:50

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc. Job ID: 410-207884-1
Project/Site: Q1364

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-25

PFAS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Analysis Batch Number: 605295

Lab Sample ID: IC 410-605295/1 Client Sample ID:

Date Analyzed: 02/12/25 12:45 Lab File ID: 25FEB12-CAL-05.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluoropropionic acid (PFPrA)	2.10	Baseline	BWX7	02/12/25 14:34
3:3 FTCA	4.51	Missed Peak	BWX7	02/12/25 14:35
Perfluorononanoic acid	6.52	Split Peak	BWX7	02/12/25 14:35
NMeFOSAA	6.87	Missed Peak	BWX7	02/12/25 14:36
NEtFOSAA	7.07	Missed Peak	BWX7	02/12/25 14:36
Perfluorooctanesulfonamide	7.99	Missed Peak	BWX7	02/12/25 14:36
Perfluorotetradecanoic acid	8.48	Missed Peak	BWX7	02/12/25 14:37
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	8.79	Split Peak	BWX7	02/12/25 14:37
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	8.97	Split Peak	BWX7	02/12/25 14:37

Lab Sample ID: IC 410-605295/2 Client Sample ID:

Date Analyzed: 02/12/25 12:59 Lab File ID: 25FEB12-CAL-06.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3:3 FTCA	4.52	Missed Peak	BWX7	02/12/25 14:38
Perfluorooctanesulfonamide	7.99	Split Peak	BWX7	02/12/25 14:38
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	8.80	Split Peak	BWX7	02/12/25 14:38
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	8.98	Split Peak	BWX7	02/12/25 14:39

PFAS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Analysis Batch Number: 606840

Lab Sample ID: CCVO 410-606840/1 Client Sample ID:

Date Analyzed: 02/17/25 15:58 Lab File ID: 25FEB17W-01.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluoropropionic acid (PFPrA)	2.10	Baseline	JU9U	02/17/25 16:21
3:3 FTCA	4.55	Assign Peak	JU9U	02/17/25 16:22
Perfluorooctanoic acid	6.18	Baseline	JU9U	02/17/25 16:22
Perfluorononanoic acid	6.60	Baseline	JU9U	02/17/25 16:22
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	6.79	Baseline	JU9U	02/17/25 16:22
NEtFOSAA	7.15	Baseline	JU9U	02/17/25 16:21
Perfluorooctanesulfonamide	8.03	Assign Peak	JU9U	02/17/25 16:23
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	8.98	Baseline	JU9U	02/17/25 16:23

Lab Sample ID: LLCS 410-606716/3-A Client Sample ID:

Date Analyzed: 02/17/25 17:34 Lab File ID: 25FEB17W-08.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorononanoic acid	6.55	Incomplete Integration	JU9U	02/17/25 18:22

Lab Sample ID: 410-207884-1 Client Sample ID: MW-30D-021125

Date Analyzed: 02/17/25 17:47 Lab File ID: 25FEB17W-09.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	5.47	Baseline	JU9U	02/17/25 18:28
Perfluoroheptanoic acid	5.71	Shouldering	JU9U	02/17/25 18:29
Perfluorodecanoic acid	6.95	Baseline	JU9U	02/17/25 18:29

1633

PFAS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Analysis Batch Number: 606840

Lab Sample ID: 410-207884-3 Client Sample ID: MW-33D-021225

Date Analyzed: 02/17/25 18:15 Lab File ID: 25FEB17W-11.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluoroheptanoic acid	5.71	Shouldering	JU9U	02/17/25 18:58
Perfluorodecanoic acid	6.93	Shouldering	JU9U	02/17/25 18:58

Lab Sample ID: 410-207884-4 Client Sample ID: VFCC-2-021225

Date Analyzed: 02/17/25 18:55 Lab File ID: 25FEB17W-14.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluoroheptanoic acid	5.69	Shouldering	JU9U	02/17/25 19:23
Perfluorononanoic acid	6.42	Baseline	JU9U	02/17/25 19:23
Perfluorodecanoic acid	6.92	Baseline	JU9U	02/17/25 19:23

Lab Sample ID: 410-207884-5 Client Sample ID: VFCC-3-021225

Date Analyzed: 02/17/25 19:09 Lab File ID: 25FEB17W-15.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluoropentanoic acid	4.82	Shouldering	JU9U	02/17/25 19:40
Perfluoroheptanoic acid	5.70	Shouldering	JU9U	02/17/25 19:40
Perfluorohexanesulfonic acid	6.32	Baseline	JU9U	02/17/25 19:40

Lab Sample ID: 410-207884-6 Client Sample ID: MW-33S-021225

Date Analyzed: 02/17/25 19:22 Lab File ID: 25FEB17W-16.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluoropentanoic acid	4.82	Shouldering	JU9U	02/17/25 20:04

PFAS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Analysis Batch Number: 606840

Lab Sample ID: 410-207884-7 Client Sample ID: MW-33S-FD-021225

Date Analyzed: 02/17/25 19:36 Lab File ID: 25FEB17W-17.d GC Column: Gemini C18 5 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	5.46	Baseline	JU9U	02/17/25 20:05
Perfluoroheptanoic acid	5.70	Shouldering	JU9U	02/17/25 20:05

1633

1633_Final

Per- and Polyfluoroalkyl Substances by LC/MS/MS

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	M242FTS #	13C5PHA #	C3PFBS #	HFPODA #	C4PFHA #	M262FTS #
MW-30D-021125	410-207884-1	83.2	109 cn	73.9	105 cn	81.9	105 cn	105 cn	68.8
EB-01-021125	410-207884-2	85.3	103 cn	70.3	103 cn	80.8	107 cn	108 cn	71.8
MW-33D-021225	410-207884-3	85.0	99.4 cn	78.2	104 cn	86.8	106 cn	103 cn	65.9
VFCC-2-021225	410-207884-4	84.6	107 cn	69.5	109 cn	87.9	103 cn	103 cn	68.8
VFCC-3-021225	410-207884-5	79.3	100 cn	66.7	98.5 cn	76.5	108 cn	102 cn	55.9
MW-33S-021225	410-207884-6	90.7	117 cn	73.9	112 cn	87.0	118 cn	121 cn	71.6
MW-33S-FD-021225	410-207884-7	83.1	106 cn	67.5	103 cn	84.2	102 cn	104 cn	64.5
EB-02-021225	410-207884-8	84.5	107 cn	78.3	100 cn	90.2	105 cn	103 cn	109
	MB 410-606716/1-A	120	144 *5+	103	137 *5+	124	138 *5+	156 *5+	101
	LCS 410-606716/2-A	90.3	106	80.8	107	91.6	109	115	79.4
	LLCS 410-606716/3-A	89.3	107	81.6	108	94.6	108	111	80.6
MW-33D-021225MS MS	410-207884-3 MS	81.9	100 cn	70.4	105 cn	80.9	96.1 cn	99.6 cn	66.1
MW-33D-021225MSD MSD	410-207884-3 MSD	81.8	111 cn	67.8	110 cn	80.5	107 cn	107 cn	64.4

	QC LIMITS
PFBA = 13C4 PFBA	5-130
PFPeA = 13C5 PFPeA	40-130
M242FTS = M2-4:2 FTS	40-200
13C5PHA = 13C5 PFHxA	40-130
C3PFBS = 13C3 PFBS	40-135
HFPODA = 13C3 HFPO-DA	40-130
C4PFHA = 13C4 PFHpA	40-130
M262FTS = M2-6:2 FTS	40-200

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOA #	C3PFHS #	C9PFNA #	M282FTS #	d3NMFOS #	C6PFDA #	d5NEFOS #	C8PFOS #
MW-30D-021125	410-207884-1	75.1	74.1	72.7	69.6	82.4	73.5	86.9	85.8
EB-01-021125	410-207884-2	77.2	76.5	78.0	70.3	88.6	85.5	92.3	93.8
MW-33D-021225	410-207884-3	74.1	82.7	80.0	72.8	85.8	78.8	89.1	86.7
VFCC-2-021225	410-207884-4	76.2	79.2	77.2	69.4	88.7	80.2	90.7	90.6
VFCC-3-021225	410-207884-5	76.4	77.2	73.7	63.3	82.5	70.6	81.4	81.7
MW-33S-021225	410-207884-6	84.5	80.9	79.7	66.5	84.4	78.7	85.2	93.3
MW-33S-FD-021225	410-207884-7	77.6	76.6	73.5	63.2	69.3	78.2	77.6	83.1
EB-02-021225	410-207884-8	80.1	88.6	75.0	91.8	98.3	80.1	94.0	89.3
	MB 410-606716/1-A	105	112	107	107	119	114	120	123
	LCS 410-606716/2-A	83.1	86.4	79.5	81.2	92.9	84.5	95.2	99.3
	LLCS 410-606716/3-A	79.6	83.6	79.9	79.7	92.1	84.6	91.6	92.2
MW-33D-021225MS MS	410-207884-3 MS	76.2	77.0	73.5	66.1	79.4	75.7	80.7	85.4
MW-33D-021225MSD MSD	410-207884-3 MSD	77.1	76.8	72.0	65.6	77.1	78.2	83.3	92.5

	QC LIMITS
C8PFOA = 13C8 PFOA	40-130
C3PFHS = 13C3 PFHxS	40-130
C9PFNA = 13C9 PFNA	40-130
M282FTS = M2-8:2 FTS	40-300
d3NMFOS = d3-NMeFOSAA	40-170
C6PFDA = 13C6 PFDA	40-130
d5NEFOS = d5-NEtFOSAA	25-135
C8PFOS = 13C8 PFOS	40-130

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	13C7PUA #	PFDoA #	PFOSA #	PFTDA #	NMFM #	d3NMFSA #	NEFM #	d5NPFSA #
MW-30D-021125	410-207884-1	79.9 cn	73.9	84.6	77.3 cn	83.6	58.5	79.8	58.9
EB-01-021125	410-207884-2	92.3 cn	85.3	80.4	80.8 cn	81.8	53.1	79.1	55.1
MW-33D-021225	410-207884-3	87.9 cn	81.7	77.2	78.3 cn	82.6	56.2	83.8	56.9
VFCC-2-021225	410-207884-4	85.1 cn	75.3	84.7	77.0 cn	89.7	56.8	88.7	57.7
VFCC-3-021225	410-207884-5	76.5 cn	72.9	73.0	73.0 cn	81.6	53.8	77.7	54.3
MW-33S-021225	410-207884-6	84.2 cn	82.0	81.5	79.3 cn	87.6	62.6	86.3	61.8
MW-33S-FD-021225	410-207884-7	82.4 cn	77.0	73.3	77.6 cn	77.6	53.4	75.8	53.5
EB-02-021225	410-207884-8	93.5 cn	94.7	84.8	69.0 cn	88.3	67.4	88.6	68.5
	MB 410-606716/1-A	131 *5+	123	111	131 *5+	114	81.2	112	78.0
	LCS 410-606716/2-A	88.6	84.1	80.3	85.2	85.7	55.0	84.5	55.7
	LLCS 410-606716/3-A	90.2	84.4	74.6	86.6	79.3	51.0	77.7	51.9
MW-33D-021225MS MS	410-207884-3 MS	82.9 cn	76.0	75.8	77.4 cn	79.1	53.7	79.0	50.9
MW-33D-021225MSD MSD	410-207884-3 MSD	87.0 cn	75.6	76.1	80.8 cn	81.7	68.3	84.1	71.2

	QC LIMITS
13C7PUA = 13C7 PFUnA	30-130
PFDoA = 13C2 PFDoA	10-130
PFOSA = 13C8 FOSA	40-130
PFTDA = 13C2 PFTeDA	10-130
NMFM = d7-N-MeFOSE-M	10-130
d3NMFSA = d3-NMePFOSA	10-130
NEFM = d9-N-EtFOSE-M	10-130
d5NPFSA = d5-NEtPFOSA	10-130

Column to be used to flag recovery values

FORM II 1633

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-07.d

Lab ID: LCS 410-606716/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid	80.0	83.9	105	70-140	
Perfluoropentanoic acid	40.0	44.7	112	65-135	
Perfluorohexanoic acid	40.0	44.8	112	70-145	
Perfluoroheptanoic acid	40.0	44.8	112	70-150	
Perfluorooctanoic acid	40.0	46.1	115	70-150	
Perfluorononanoic acid	40.0	42.0	105	70-150	
Perfluorodecanoic acid	40.0	43.1	108	70-140	
Perfluoroundecanoic acid	40.0	38.5	96	70-145	
Perfluorododecanoic acid	40.0	42.2	105	70-140	
Perfluorotridecanoic acid	40.0	38.1	95	65-140	
Perfluorotetradecanoic acid	40.0	44.0	110	60-140	
Perfluorobutanesulfonic acid	35.5	40.0	113	60-145	
Perfluoropentanesulfonic acid	37.6	40.8	109	65-140	
Perfluorohexanesulfonic acid	36.5	43.0	118	65-145	
Perfluoroheptanesulfonic acid	38.2	38.7	102	70-150	
Perfluorooctanesulfonic acid	37.2	36.0	97	55-150	
Perfluorononanesulfonic acid	38.5	39.6	103	65-145	
Perfluorodecanesulfonic acid	38.6	40.2	104	60-145	
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.8	100	50-145	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	74.7	82.5	110	70-145	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	75.8	74.0	98	65-155	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	76.6	82.6	108	60-150	
Perfluorooctanesulfonamide	40.0	42.9	107	70-145	
NMeFOSA	40.0	46.0	115	60-150	
N-ethylperfluoro-1-octanesulfonamide	40.0	44.3	111	65-145	
NMeFOSAA	40.0	37.0	92	50-140	
NEtFOSAA	40.0	39.9	100	70-145	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	200	212	106	70-145	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	200	203	102	70-135	
HFPO-DA	30.0	34.4	115	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	34.0	90	65-145	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-07.d

Lab ID: LCS 410-606716/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluoro-3-methoxypropanoic acid	40.0	41.4	104	55-140	
Perfluoro(4-methoxybutanoic acid)	40.0	43.4	109	60-150	
Perfluoro-3,6-dioxaheptanoic acid	40.0	42.8	107	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	42.8	114	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	41.9	111	55-160	
PFEESA	35.7	35.7	100	70-140	
3:3 FTCA	80.0	83.1	104	65-130	
5:3 FTCA	200	180	90	70-135	
7:3 FTCA	200	143	72	50-145	
13C4 PFBA	80.0	72.2	90.3	5-130	
13C5 PFPeA	80.0	84.8	106	40-130	
13C5 PFHxA	80.0	85.8	107	40-130	
13C4 PFHpA	80.0	91.8	115	40-130	
13C8 PFOA	80.0	66.4	83.1	40-130	
13C9 PFNA	80.0	63.6	79.5	40-130	
13C6 PFDA	80.0	67.6	84.5	40-130	
13C7 PFUnA	80.0	70.9	88.6	30-130	
13C2 PFTeDA	80.0	68.1	85.2	10-130	
13C3 PFBS	74.6	68.3	91.6	40-135	
13C3 PFHxS	75.8	65.5	86.4	40-130	
13C8 PFOS	76.5	75.9	99.3	40-130	
13C8 FOSA	80.0	64.2	80.3	40-130	
d3-NMeFOSAA	200	186	92.9	40-170	
d5-NEtFOSAA	200	190	95.2	25-135	
M2-4:2 FTS	188	152	80.8	40-200	
M2-6:2 FTS	190	151	79.4	40-200	
M2-8:2 FTS	192	156	81.2	40-300	
13C3 HFPO-DA	80.0	87.2	109	40-130	
d7-N-MeFOSE-M	200	171	85.7	10-130	
d9-N-EtFOSE-M	200	169	84.5	10-130	
d5-NEtPFOSA	80.0	44.5	55.7	10-130	
d3-NMePFOSA	80.0	44.0	55.0	10-130	
13C2 PFDoA	80.0	67.3	84.1	10-130	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-08.d

Lab ID: LLCS 410-606716/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid	8.00	8.92	112	70-140	
Perfluoropentanoic acid	4.00	5.05	126	65-135	
Perfluorohexanoic acid	4.00	4.95	124	70-145	
Perfluoroheptanoic acid	4.00	4.90	122	70-150	
Perfluorooctanoic acid	4.00	4.62	116	70-150	
Perfluorononanoic acid	4.00	5.28	132	70-150	
Perfluorodecanoic acid	4.00	4.77	119	70-140	
Perfluoroundecanoic acid	4.00	4.61	115	70-145	
Perfluorododecanoic acid	4.00	4.39	110	70-140	
Perfluorotridecanoic acid	4.00	4.13	103	65-140	
Perfluorotetradecanoic acid	4.00	4.57	114	60-140	
Perfluorobutanesulfonic acid	3.55	4.17	117	60-145	
Perfluoropentanesulfonic acid	3.76	4.65	124	65-140	
Perfluorohexanesulfonic acid	3.65	5.13	141	65-145	
Perfluoroheptanesulfonic acid	3.82	3.90	102	70-150	
Perfluorooctanesulfonic acid	3.72	4.00	108	55-150	
Perfluorononanesulfonic acid	3.85	4.36	113	65-145	
Perfluorodecanesulfonic acid	3.86	4.45	115	60-145	
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.80	98	50-145	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.47	8.18	110	70-145	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	7.58	8.67	114	65-155	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	7.66	8.52	111	60-150	
Perfluorooctanesulfonamide	4.00	4.55	114	70-145	
NMeFOSA	4.00	4.84	121	60-150	
N-ethylperfluoro-1-octanesulfonamide	4.00	4.65	116	65-145	
NMeFOSAA	4.00	4.38	109	50-140	
NEtFOSAA	4.00	4.13	103	70-145	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	20.0	23.2	116	70-145	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	20.0	23.9	119	70-135	
HFPO-DA	3.00	3.76	125	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.40	116	65-145	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-08.d

Lab ID: LLCS 410-606716/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
Perfluoro-3-methoxypropanoic acid	4.00	4.40	110	55-140	
Perfluoro(4-methoxybutanoic acid)	4.00	4.55	114	60-150	
Perfluoro-3,6-dioxaheptanoic acid	4.00	4.19	105	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	4.55	122	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	4.56	121	55-160	
PFEESA	3.56	3.96	111	70-140	
3:3 FTCA	8.00	7.95	99	65-130	
5:3 FTCA	20.0	18.9	94	70-135	
7:3 FTCA	20.0	15.8	79	50-145	
13C4 PFBA	80.0	71.5	89.3	5-130	
13C5 PFPeA	80.0	85.2	107	40-130	
13C5 PFHxA	80.0	86.0	108	40-130	
13C4 PFHpA	80.0	88.9	111	40-130	
13C8 PFOA	80.0	63.7	79.6	40-130	
13C9 PFNA	80.0	63.9	79.9	40-130	
13C6 PFDA	80.0	67.7	84.6	40-130	
13C7 PFUnA	80.0	72.1	90.2	30-130	
13C2 PFTeDA	80.0	69.3	86.6	10-130	
13C3 PFBS	74.6	70.5	94.6	40-135	
13C3 PFHxS	75.8	63.4	83.6	40-130	
13C8 PFOS	76.5	70.5	92.2	40-130	
13C8 FOSA	80.0	59.7	74.6	40-130	
d3-NMeFOSAA	200	184	92.1	40-170	
d5-NEtFOSAA	200	183	91.6	25-135	
M2-4:2 FTS	188	153	81.6	40-200	
M2-6:2 FTS	190	153	80.6	40-200	
M2-8:2 FTS	192	153	79.7	40-300	
13C3 HFPO-DA	80.0	86.2	108	40-130	
d7-N-MeFOSE-M	200	159	79.3	10-130	
d9-N-EtFOSE-M	200	155	77.7	10-130	
d5-NEtPFOSA	80.0	41.5	51.9	10-130	
d3-NMePFOSA	80.0	40.8	51.0	10-130	
13C2 PFDoA	80.0	67.5	84.4	10-130	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-12.d

Lab ID: 410-207884-3 MS Client ID: MW-33D-021225MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid	70.3	6.1	85.6	113	70-140	
Perfluoropentanoic acid	35.2	12	50.2	109	65-135	
Perfluorohexanoic acid	35.2	10	45.6	100	70-145	
Perfluoroheptanoic acid	35.2	7.1	45.9	110	70-150	
Perfluorooctanoic acid	35.2	15	54.9	112	70-150	
Perfluorononanoic acid	35.2	8.1	47.3	112	70-150	
Perfluorodecanoic acid	35.2	1.2 J	40.5	112	70-140	
Perfluoroundecanoic acid	35.2	ND	36.9	105	70-145	
Perfluorododecanoic acid	35.2	ND	39.5	112	70-140	
Perfluorotridecanoic acid	35.2	ND	35.8	102	65-140	
Perfluorotetradecanoic acid	35.2	ND	39.8	113	60-140	
Perfluorobutanesulfonic acid	31.2	2.9	38.5	114	60-145	
Perfluoropentanesulfonic acid	33.1	ND	36.8	111	65-140	
Perfluorohexanesulfonic acid	32.1	3.6	40.9	116	65-145	
Perfluoroheptanesulfonic acid	33.5	ND	34.6	103	70-150	
Perfluorooctanesulfonic acid	32.7	14	49.3	108	55-150	
Perfluorononanesulfonic acid	33.8	ND	36.1	107	65-145	
Perfluorodecanesulfonic acid	33.9	ND	37.6	111	60-145	
Perfluorododecanesulfonic acid (PFDoS)	34.1	ND	35.8	105	50-145	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	65.7	ND	79.3	121	70-145	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	66.7	2.9 J	76.1	110	65-155	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	67.4	ND	74.3	110	60-150	
Perfluorooctanesulfonamide	35.2	ND	37.3	106	70-145	
NMeFOSA	35.2	ND	37.5	107	60-150	
N-ethylperfluoro-1-octanesulfonamide	35.2	ND	39.8	113	65-145	
NMeFOSAA	35.2	ND	35.4	101	50-140	
NEtFOSAA	35.2	ND	38.5	110	70-145	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	176	ND	184	105	70-145	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	176	ND	179	102	70-135	
HFPO-DA	26.4	ND	32.3	122	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	33.3	ND	32.0	96	65-145	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-12.d

Lab ID: 410-207884-3 MS Client ID: MW-33D-021225MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluoro-3-methoxypropanoic acid	35.2	ND	39.5	112	55-140	
Perfluoro(4-methoxybutanoic acid)	35.2	ND	38.1	108	60-150	
Perfluoro-3,6-dioxaheptanoic acid	35.2	ND	37.4	106	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	32.8	ND	39.4	120	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	33.2	ND	39.9	120	55-160	
PFEESA	31.4	ND	31.9	102	70-140	
3:3 FTCA	70.3	ND	73.6	105	65-130	
5:3 FTCA	176	ND	169	96	70-135	
7:3 FTCA	176	ND	152	87	50-145	
13C4 PFBA	70.3	60	57.6	81.9	5-130	
13C5 PFPeA	70.3	70	70.5	100	40-130	cn
13C5 PFHxA	70.3	73	73.8	105	40-130	cn
13C4 PFHpA	70.3	73	70.1	99.6	40-130	cn
13C8 PFOA	70.3	52	53.6	76.2	40-130	
13C9 PFNA	70.3	57	51.7	73.5	40-130	
13C6 PFDA	70.3	56	53.2	75.7	40-130	
13C7 PFUnA	70.3	62	58.3	82.9	30-130	cn
13C2 PFTeDA	70.3	55	54.5	77.4	10-130	cn
13C3 PFBS	65.5	57	53.0	80.9	40-135	
13C3 PFHxS	66.7	55	51.3	77.0	40-130	
13C8 PFOS	67.2	59	57.4	85.4	40-130	
13C8 FOSA	70.3	55	53.3	75.8	40-130	
d3-NMeFOSAA	176	150	140	79.4	40-170	
d5-NEtFOSAA	176	160	142	80.7	25-135	
M2-4:2 FTS	165	130	116	70.4	40-200	
M2-6:2 FTS	167	110	111	66.1	40-200	
M2-8:2 FTS	169	120	112	66.1	40-300	
13C3 HFPO-DA	70.3	75	67.6	96.1	40-130	cn
d7-N-MeFOSE-M	176	150	139	79.1	10-130	
d9-N-EtFOSE-M	176	150	139	79.0	10-130	
d5-NEtPFOSA	70.3	40	35.8	50.9	10-130	
d3-NMePFOSA	70.3	40	37.8	53.7	10-130	
13C2 PFDoA	70.3	58	53.5	76.0	10-130	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-13.d

Lab ID: 410-207884-3 MSD Client ID: MW-33D-021225MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid	70.4	80.0	105	7	30	70-140	
Perfluoropentanoic acid	35.2	50.5	110	1	30	65-135	
Perfluorohexanoic acid	35.2	46.3	102	2	30	70-145	
Perfluoroheptanoic acid	35.2	47.4	114	3	30	70-150	
Perfluorooctanoic acid	35.2	53.4	108	3	30	70-150	
Perfluorononanoic acid	35.2	49.0	116	4	30	70-150	
Perfluorodecanoic acid	35.2	37.9	104	7	30	70-140	
Perfluoroundecanoic acid	35.2	35.8	102	3	30	70-145	
Perfluorododecanoic acid	35.2	39.0	111	1	30	70-140	
Perfluorotridecanoic acid	35.2	37.7	107	5	30	65-140	
Perfluorotetradecanoic acid	35.2	39.7	113	0	30	60-140	
Perfluorobutanesulfonic acid	31.2	38.6	114	0	30	60-145	
Perfluoropentanesulfonic acid	33.1	36.1	109	2	30	65-140	
Perfluorohexanesulfonic acid	32.1	42.7	122	4	30	65-145	
Perfluoroheptanesulfonic acid	33.6	33.2	99	4	30	70-150	
Perfluorooctanesulfonic acid	32.7	42.4	87	15	30	55-150	
Perfluorononanesulfonic acid	33.8	33.1	98	9	30	65-145	
Perfluorodecanesulfonic acid	33.9	32.2	95	15	30	60-145	
Perfluorododecanesulfonic acid (PFDoS)	34.1	32.3	95	10	30	50-145	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	65.7	77.0	117	3	30	70-145	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	66.7	75.0	108	1	30	65-155	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	67.4	76.2	113	3	30	60-150	
Perfluorooctanesulfonamide	35.2	36.5	104	2	30	70-145	
NMeFOSA	35.2	37.4	106	0	30	60-150	
N-ethylperfluoro-1-octanesulfonamide	35.2	35.4	100	12	30	65-145	
NMeFOSAA	35.2	37.0	105	5	30	50-140	
NEtFOSAA	35.2	37.8	107	2	30	70-145	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	176	182	104	1	30	70-145	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	176	169	96	6	30	70-135	
HFPO-DA	26.4	29.8	113	8	30	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	33.3	31.2	94	3	30	65-145	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25FEB17W-13.d

Lab ID: 410-207884-3 MSD Client ID: MW-33D-021225MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluoro-3-methoxypropanoic acid	35.2	36.3	103	9	30	55-140	
Perfluoro(4-methoxybutanoic acid)	35.2	36.5	104	4	30	60-150	
Perfluoro-3,6-dioxaheptanoic acid	35.2	36.4	103	3	30	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	32.9	38.9	118	1	30	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	33.2	38.0	115	5	30	55-160	
PFEESA	31.4	33.3	106	4	30	70-140	
3:3 FTCA	70.4	68.8	98	7	30	65-130	
5:3 FTCA	176	162	92	4	30	70-135	
7:3 FTCA	176	151	86	1	30	50-145	
13C4 PFBA	70.4	57.5	81.8			5-130	
13C5 PFPeA	70.4	78.2	111			40-130	cn
13C5 PFHxA	70.4	77.4	110			40-130	cn
13C4 PFHpA	70.4	75.2	107			40-130	cn
13C8 PFOA	70.4	54.3	77.1			40-130	
13C9 PFNA	70.4	50.7	72.0			40-130	
13C6 PFDA	70.4	55.0	78.2			40-130	
13C7 PFUnA	70.4	61.2	87.0			30-130	cn
13C2 PFTeDA	70.4	56.9	80.8			10-130	cn
13C3 PFBS	65.6	52.8	80.5			40-135	
13C3 PFHxS	66.7	51.3	76.8			40-130	
13C8 PFOS	67.3	62.3	92.5			40-130	
13C8 FOSA	70.4	53.5	76.1			40-130	
d3-NMeFOSAA	176	136	77.1			40-170	
d5-NEtFOSAA	176	146	83.3			25-135	
M2-4:2 FTS	165	112	67.8			40-200	
M2-6:2 FTS	167	108	64.4			40-200	
M2-8:2 FTS	169	111	65.6			40-300	
13C3 HFPO-DA	70.4	75.0	107			40-130	cn
d7-N-MeFOSE-M	176	144	81.7			10-130	
d9-N-EtFOSE-M	176	148	84.1			10-130	
d5-NEtPFOSA	70.4	50.1	71.2			10-130	
d3-NMePFOSA	70.4	48.1	68.3			10-130	
13C2 PFDoA	70.4	53.2	75.6			10-130	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab File ID: 25FEB17W-06.d Lab Sample ID: MB 410-606716/1-A

Matrix: Water Date Extracted: 02/17/2025 10:23

Instrument ID: 30576 Date Analyzed: 02/17/2025 17:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-606716/2-A	25FEB17W-07.d	02/17/2025 17:20
	LLCS 410-606716/3-A	25FEB17W-08.d	02/17/2025 17:34
MW-30D-021125	410-207884-1	25FEB17W-09.d	02/17/2025 17:47
EB-01-021125	410-207884-2	25FEB17W-10.d	02/17/2025 18:01
MW-33D-021225	410-207884-3	25FEB17W-11.d	02/17/2025 18:15
MW-33D-021225MS MS	410-207884-3 MS	25FEB17W-12.d	02/17/2025 18:28
MW-33D-021225MSD MSD	410-207884-3 MSD	25FEB17W-13.d	02/17/2025 18:42
VFCC-2-021225	410-207884-4	25FEB17W-14.d	02/17/2025 18:55
VFCC-3-021225	410-207884-5	25FEB17W-15.d	02/17/2025 19:09
MW-33S-021225	410-207884-6	25FEB17W-16.d	02/17/2025 19:22
MW-33S-FD-021225	410-207884-7	25FEB17W-17.d	02/17/2025 19:36
EB-02-021225	410-207884-8	25FEB17W-18.d	02/17/2025 19:50

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument I 30576 Calibration Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/12/2025 14:20

Calibration ID: 69682

		13C3PFBA		PFHxA		PFOA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1219273	4.18	3132764	5.28	3623328	6.12
UPPER LIMIT		2438546	4.58	6265528	5.68	7246656	6.52
LOWER LIMIT		609637	3.78	1566382	4.88	1811664	5.72
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-605295/9		1312808	4.18	2993187	5.27	3804327	6.12
ICV 410-605295/10		1273219	4.19	3208383	5.28	3620514	6.12
CCVO 410-606840/1		1518629	4.22	3707005	5.32	4222098	6.18
CCV 410-606840/2		1354127	4.23	3258504	5.32	3736877	6.17
CCB 410-606840/3		1472156	4.22	3757859	5.31	4079305	6.17
MB 410-606716/1-A		1030480	4.18	2112703	5.30	3102020	6.15
LCS 410-606716/2-A		1420153	4.18	2795271	5.28	4096743	6.15
LLCS 410-606716/3-A		1491626	4.18	2955184	5.28	4617890	6.14
410-207884-1	MW-30D-021125	1518162	4.18	2812351	5.28	4437784	6.12
410-207884-2	EB-01-021125	1458969	4.18	2925783	5.29	4361524	6.13
410-207884-3	MW-33D-021225	1513770	4.18	2939842	5.28	4629901	6.12
410-207884-3 MS	MW-33D-021225MS MS	1476640	4.19	2937864	5.28	4444331	6.12
410-207884-3 MSD	MW-33D-021225MSD MSD	1472898	4.17	2617878	5.27	4271876	6.11
410-207884-4	VFCC-2-021225	1483294	4.18	2832811	5.27	4344959	6.11
410-207884-5	VFCC-3-021225	1497478	4.18	2842969	5.27	4398617	6.11
410-207884-6	MW-33S-021225	1325897	4.17	2427177	5.27	4000871	6.11
410-207884-7	MW-33S-FD-021225	1491996	4.17	2821493	5.27	4468689	6.11
410-207884-8	EB-02-021225	1493452	4.17	2892318	5.27	4554513	6.11
CCV 410-606840/109		1408062	4.20	3384192	5.28	3823026	6.12
CCB 410-606840/110		1500010	4.21	3650324	5.28	4109448	6.13

13C3PFBA = 13C3-PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument I 30576 Calibration Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/12/2025 14:20

Calibration ID: 69682

		PFHxS		PFNA		PFDA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		953740	6.33	1302035	6.52	1281512	6.93
UPPER LIMIT		1907480	6.73	2604070	6.92	2563024	7.33
LOWER LIMIT		476870	5.93	651018	6.12	640756	6.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-605295/9		992332	6.33	1437805	6.52	1389772	6.92
ICV 410-605295/10		893538	6.33	1278528	6.52	1227699	6.93
CCVO 410-606840/1		1159126	6.41	1616758	6.60	1576328	7.01
CCV 410-606840/2		1074443	6.39	1390647	6.58	1421569	7.01
CCB 410-606840/3		1101823	6.40	1598718	6.58	1437135	7.00
MB 410-606716/1-A		768313	6.36	1159911	6.54	1063835	6.96
LCS 410-606716/2-A		1031151	6.36	1543909	6.55	1553849	6.96
LLCS 410-606716/3-A		1100524	6.35	1661549	6.53	1644780	6.95
410-207884-1	MW-30D-021125	1133329	6.35	1701620	6.53	1604765	6.95
410-207884-2	EB-01-021125	1116107	6.34	1638413	6.53	1483499	6.94
410-207884-3	MW-33D-021225	1082103	6.33	1571001	6.52	1506564	6.93
410-207884-3 MS	MW-33D-021225MS MS	1136714	6.33	1590130	6.52	1582393	6.93
410-207884-3 MSD	MW-33D-021225MSD MSD	1125881	6.32	1557420	6.50	1480458	6.92
410-207884-4	VFCC-2-021225	1144456	6.32	1659526	6.51	1606902	6.92
410-207884-5	VFCC-3-021225	1166655	6.32	1622532	6.51	1609530	6.92
410-207884-6	MW-33S-021225	1033336	6.32	1435590	6.50	1393250	6.92
410-207884-7	MW-33S-FD-021225	1156843	6.32	1609693	6.51	1509308	6.91
410-207884-8	EB-02-021225	1077534	6.32	1714263	6.51	1899246	6.92
CCV 410-606840/109		1021397	6.33	1445879	6.52	1414187	6.93
CCB 410-606840/110		1088169	6.34	1514164	6.53	1473805	6.94

PFHxS = 18O2 PFHxS
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument I 30576 Calibration Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/12/2025 14:20

Calibration ID: 69682

		PFOS					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		875766	7.19				
UPPER LIMIT		1751532	7.59				
LOWER LIMIT		437883	6.79				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-605295/9		924163	7.18				
ICV 410-605295/10		839433	7.19				
CCVO 410-606840/1		1030956	7.29				
CCV 410-606840/2		958098	7.27				
CCB 410-606840/3		1036533	7.26				
MB 410-606716/1-A		700870	7.21				
LCS 410-606716/2-A		936786	7.23				
LLCS 410-606716/3-A		1073275	7.21				
410-207884-1	MW-30D-021125	952997	7.20				
410-207884-2	EB-01-021125	995803	7.21				
410-207884-3	MW-33D-021225	999083	7.19				
410-207884-3 MS	MW-33D-021225MS MS	1014232	7.19				
410-207884-3 MSD	MW-33D-021225MSD MSD	963984	7.17				
410-207884-4	VFCC-2-021225	949465	7.18				
410-207884-5	VFCC-3-021225	971446	7.18				
410-207884-6	MW-33S-021225	884530	7.17				
410-207884-7	MW-33S-FD-021225	1038856	7.16				
410-207884-8	EB-02-021225	994840	7.18				
CCV 410-606840/109		947214	7.19				
CCB 410-606840/110		1029632	7.20				

PFOS = 13C4 PFOS

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-30D-021125
Lab Sample ID: 410-207884-1

Matrix: Water
Lab File ID: 25FEB17W-09.d

Analysis Method: 1633
Date Collected: 02/11/2025 14:30

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.5(mL)
Date Analyzed: 02/17/2025 17:47

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	7.0		3.5	0.97
2706-90-3	Perfluoropentanoic acid	11		1.8	0.53
307-24-4	Perfluorohexanoic acid	12		1.8	0.44
375-85-9	Perfluoroheptanoic acid	11		1.8	0.71
335-67-1	Perfluorooctanoic acid	46		1.8	0.80
375-95-1	Perfluorononanoic acid	9.0		1.8	0.44
335-76-2	Perfluorodecanoic acid	0.97	J	1.8	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	3.5		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	3.9		1.8	0.71
375-92-8	Perfluoroheptanesulfonic acid	ND	cn	0.90	0.90
1763-23-1	Perfluorooctanesulfonic acid	76		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.88
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.5	0.88
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.88
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
31506-32-8	NMeFOSA	ND		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44
2355-31-9	NMeFOSAA	ND		1.8	0.44
2991-50-6	NEtFOSAA	ND		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-30D-021125
Lab Sample ID: 410-207884-1

Matrix: Water
Lab File ID: 25FEB17W-09.d

Analysis Method: 1633
Date Collected: 02/11/2025 14:30

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.5(mL)
Date Analyzed: 02/17/2025 17:47

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2
13252-13-6	HFPO-DA	0.71	J	1.8	0.66
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44
113507-82-7	PFEESA	ND		1.8	0.44
356-02-5	3:3 FTCA	ND		3.5	0.88
914637-49-3	5:3 FTCA	ND		8.8	2.5
812-70-4	7:3 FTCA	ND		8.8	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-30D-021125 Lab Sample ID: 410-207884-1

Matrix: Water Lab File ID: 25FEB17W-09.d

Analysis Method: 1633 Date Collected: 02/11/2025 14:30

Extraction Method: 1633 Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.5(mL) Date Analyzed: 02/17/2025 17:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840 Units: ng/L

Preparation Batch No.: 606716 Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	83.2		5-130
STL01893	13C5 PFPeA	109	cn	40-130
STL02577	13C5 PFHxA	105	cn	40-130
STL01892	13C4 PFHpA	105	cn	40-130
STL01052	13C8 PFOA	75.1		40-130
STL02578	13C9 PFNA	72.7		40-130
STL02579	13C6 PFDA	73.5		40-130
STL02580	13C7 PFUnA	79.9	cn	30-130
STL02116	13C2 PFTeDA	77.3	cn	10-130
STL02337	13C3 PFBS	81.9		40-135
STL02581	13C3 PFHxS	74.1		40-130
STL01054	13C8 PFOS	85.8		40-130
STL01056	13C8 FOSA	84.6		40-130
STL02118	d3-NMeFOSAA	82.4		40-170
STL02117	d5-NEtFOSAA	86.9		25-135
STL02395	M2-4:2 FTS	73.9		40-200
STL02279	M2-6:2 FTS	68.8		40-200
STL02280	M2-8:2 FTS	69.6		40-300
STL02255	13C3 HFPO-DA	105	cn	40-130
STL02277	d7-N-MeFOSE-M	83.6		10-130
STL02278	d9-N-EtFOSE-M	79.8		10-130
STL02704	d5-NEtPFOSA	58.9		10-130
STL02705	d3-NMePFOSA	58.5		10-130
STL00998	13C2 PFDoA	73.9		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-09.d
Lims ID: 410-207884-A-1-B
Client ID: MW-30D-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 17:47:50 ALS Bottle#: 14 Worklist Smp#: 82
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-1-B
Misc. Info.: Plate: 2 Rack: 1 410-0138392-082
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:39 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 18:29:43
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PFBA										
212.80 > 168.90	4.181	4.216	-0.035	1.000	117284	0.1972			1326	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.224	-0.043	1.000	1348865	1.66		83.2	69187	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.224	-0.043		1518162	2.00			22058	
D 8 13C5 PFPeA										
268.30 > 223.00	4.832	4.866	-0.034	0.915	746065	2.17		109	49624	
9 PFPA										
263.00 > 219.00	4.832	4.866	-0.034	1.000	177030	0.3161			3156	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.102	5.139	-0.037	0.804	327531	3.47		73.9	8694	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.318	-0.035	1.000	1043883	2.10		105	62099	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.318	-0.035		2812351	5.00			167578	
17 PFHxA										
313.00 > 269.00	5.283	5.318	-0.035	1.000	158381	0.3260	Target=10.68		6438	
313.00 > 118.90	5.283	5.318	-0.035	1.000	12548		12.62(5.34-16.02)		754	
19 PFBS										
298.70 > 79.90	5.414	5.456	-0.042	1.000	52524	0.0993	Target=2.96		2119	
298.70 > 98.80	5.414	5.456	-0.042	1.000	17317		3.03(1.48-4.44)		925	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.456	-0.042	0.853	1002071	1.53		81.9	54178	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.470	5.514	-0.044	1.035	1292530	2.10		105	69832	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 HFPO-DA										M
284.90 > 168.90	5.470	5.514	-0.044	1.000	12918	0.0200	Target=2.37		306	M
284.90 > 184.90	5.470	5.514	-0.044	1.000	5173		2.50(1.19-3.56)		192	
28 PFHpA										M
363.10 > 319.00	5.709	5.760	-0.051	1.000	150253	0.2988	Target=2.56		1735	M
363.10 > 169.00	5.709	5.760	-0.051	1.000	55254		2.72(1.28-3.85)		1421	M
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.760	-0.051	1.081	1054933	2.09		105	60005	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.916	5.971	-0.055	0.932	323872	3.27		68.8	20832	
D 34 13C8 PFOA										
421.10 > 376.00	6.122	6.183	-0.061	1.000	1421514	1.50		75.1	66273	
36 PFOA										
413.00 > 369.00	6.122	6.183	-0.061	1.000	739177	1.30	Target=2.35		38084	
413.00 > 169.00	6.122	6.183	-0.061	1.000	291855		2.53(1.18-3.53)		53074	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.183	-0.061		4437784	5.00			583071	
D 38 13C3 PFHxS										
402.10 > 79.90	6.345	6.407	-0.062	1.000	863204	1.41		74.1	37532	
* 37 18O2 PFHxS										
403.00 > 83.90	6.345	6.407	-0.062		1133329	1.89			65694	
40 PFHxS										
398.70 > 79.90	6.345	6.407	-0.062	1.000	41220	0.1096	Target=3.23		2978	
398.70 > 98.90	6.345	6.407	-0.062	1.000	15431		2.67(1.62-4.85)		3669	
D 41 13C9 PFNA										
472.10 > 427.00	6.532	6.595	-0.063	1.000	1266588	1.45		72.7	73678	
43 PFNA										
463.00 > 419.00	6.532	6.595	-0.063	1.000	133285	0.2560	Target=2.70		21994	
463.00 > 219.00	6.532	6.595	-0.063	1.000	39773		3.35(1.35-4.05)		6123	
* 42 13C5 PFNA										
468.00 > 423.00	6.532	6.595	-0.063		1701620	2.00			74506	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.717	6.774	-0.057	1.059	285239	3.34		69.6	17502	
47 PFHpS										R
449.00 > 79.90	6.763	6.845	-0.082	0.939	11262	0.0242	Target=3.66		507	R
449.00 > 98.80	6.786	6.845	-0.059	0.942	2013		5.59(1.83-5.49)		107	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.883	6.947	-0.064	0.956	715745	4.12		82.4	40824	
D 51 13C6 PFDA										
519.10 > 474.10	6.947	7.014	-0.067	1.000	1243836	1.47		73.5	51050	
53 PFDA										M
512.90 > 469.00	6.947	7.014	-0.067	1.000	14682	0.0274	Target=5.26		484	
512.90 > 219.00	6.934	7.014	-0.080	0.998	2648		5.54(2.63-7.89)		152	M
* 52 13C2 PFDA										
515.10 > 470.10	6.947	7.014	-0.067		1604765	2.00			66066	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.137	-0.080	0.980	618720	4.34		86.9	33070	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C8 PFOS										
507.10 > 79.90	7.201	7.285	-0.084	1.000	837172	1.64		85.8	35897	
* 57 13C4 PFOS										
502.80 > 79.90	7.201	7.285	-0.084		952997	1.91			55066	
58 PFOS										
498.90 > 79.90	7.201	7.285	-0.084	1.000	1202557	2.16	Target=4.45		97182	
498.90 > 98.80	7.201	7.285	-0.084	1.000	257453		4.67(2.23-6.68)		53514	
D 59 13C7 PFUnA										
570.00 > 525.10	7.366	7.438	-0.072	1.060	1261366	1.60		79.9	79952	
D 82 PFDoA										
615.10 > 570.00	7.774	7.862	-0.088	1.119	982442	1.48		73.9	66304	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	8.022	-0.031	1.110	1028761	1.69		84.6	49603	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.492	8.581	-0.089	1.222	726305	1.55		77.3	28417	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.789	8.789	0.0	1.220	395470	4.18		83.6	6331	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.876	8.876	0.0	1.232	186868	1.17		58.5	10353	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.244	490883	3.99		79.8	12595	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.253	212162	1.18		58.9	13072	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 18:31:04 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-09.d

Injection Date: 17-Feb-2025 17:47:50 Instrument ID: 30576

Lims ID: 410-207884-A-1-B Lab Sample ID: 410-207884-1

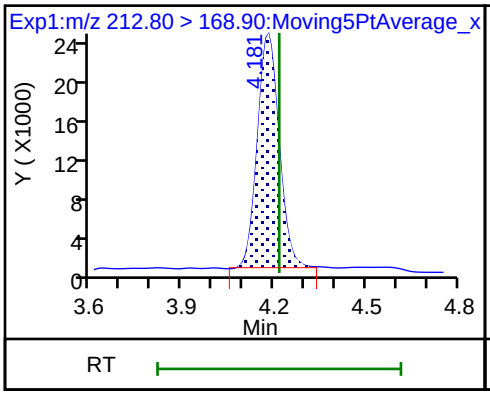
Client ID: MW-30D-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 14 Worklist Smp#: 82

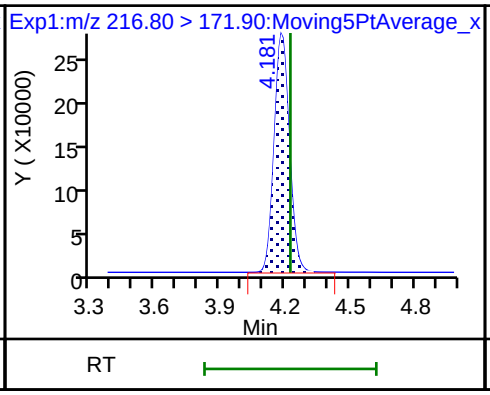
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

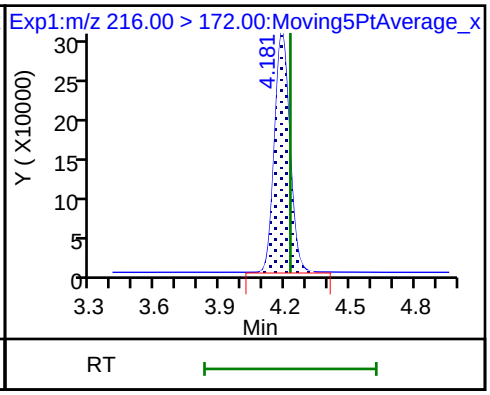
5 PFBA



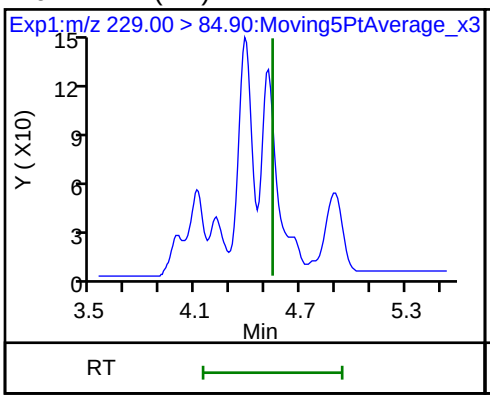
D 3 13C4-PFBA



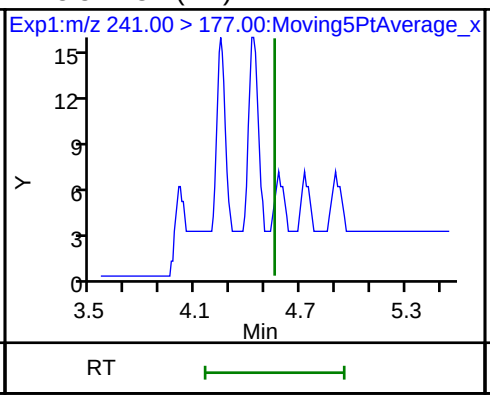
* 4 13C3PFBA



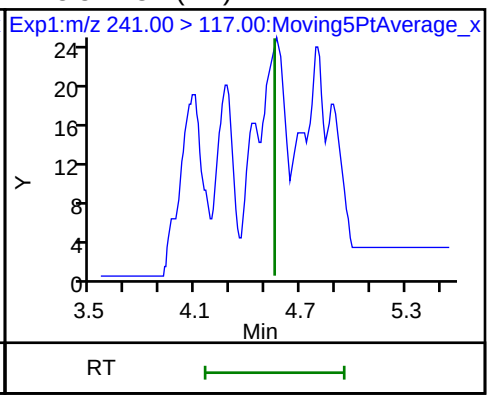
6 PFMPA (ND)



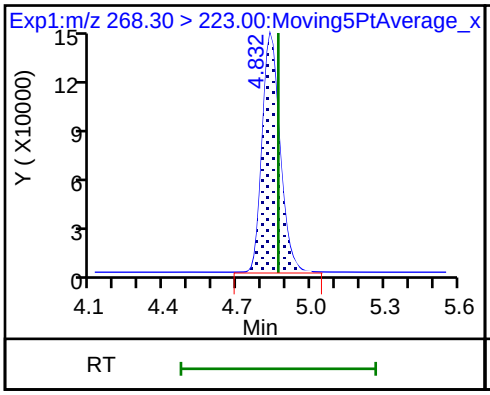
7 3:3 FTCA (ND)



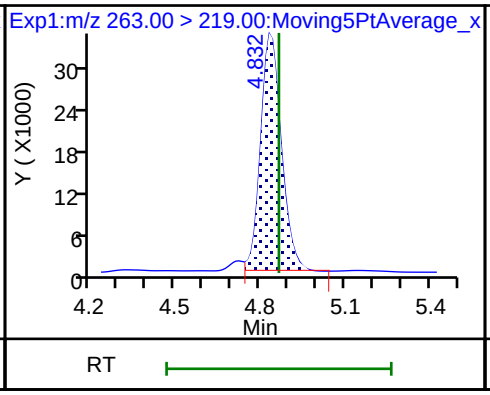
7 3:3 FTCA (ND)



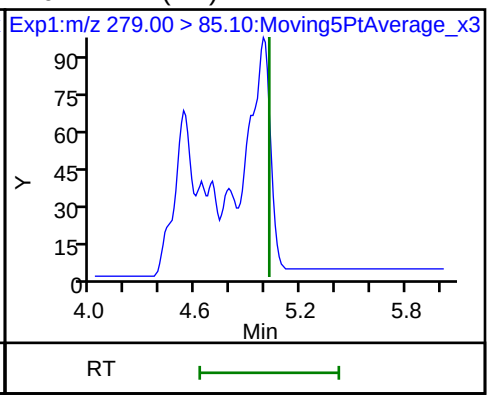
D 8 13C5 PFPeA



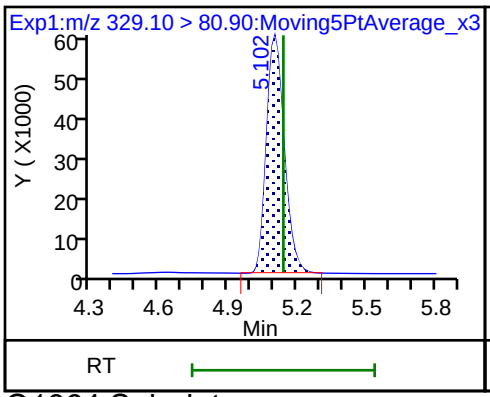
9 PFPA



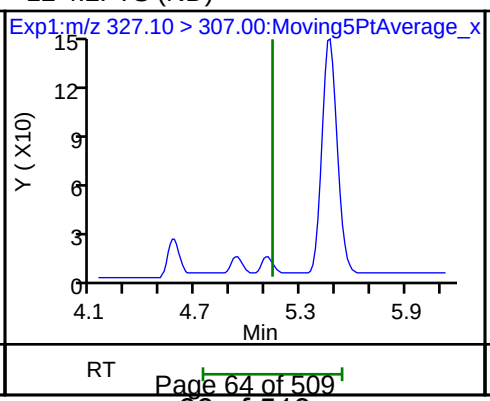
10 PFMBA (ND)



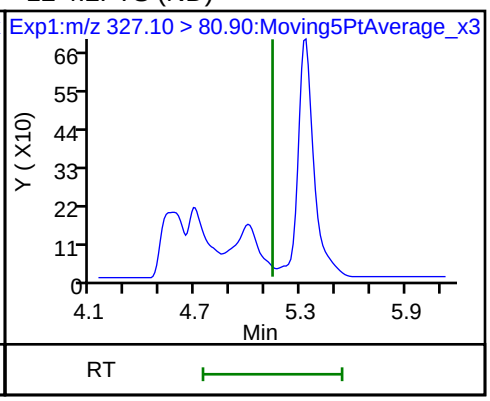
D 11 13C2-4:2FTS



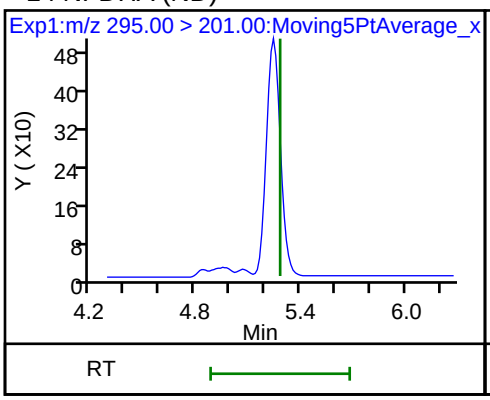
12 4:2FTS (ND)



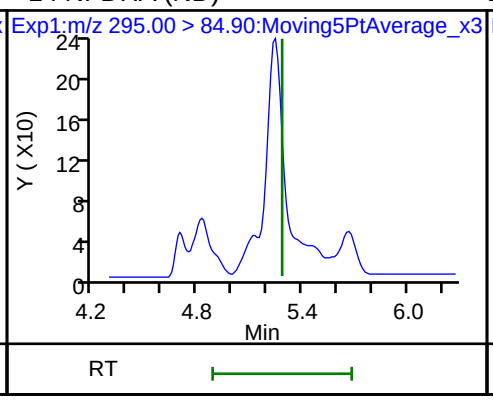
12 4:2FTS (ND)



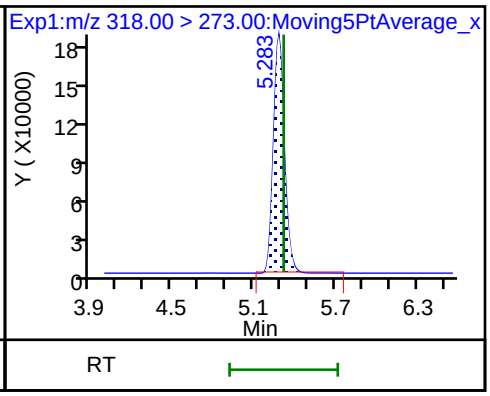
14 NFDHA (ND)



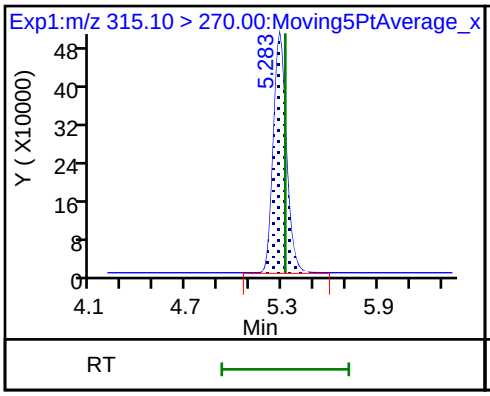
14 NFDHA (ND)



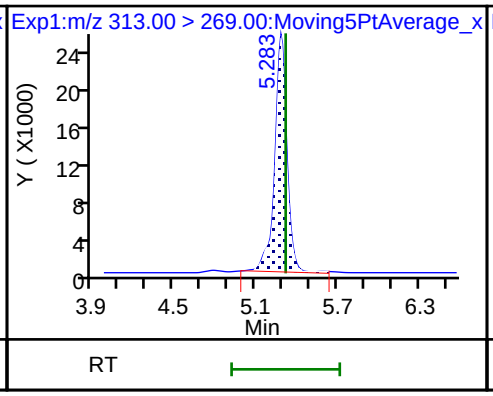
D 15 13C5 PFHxA



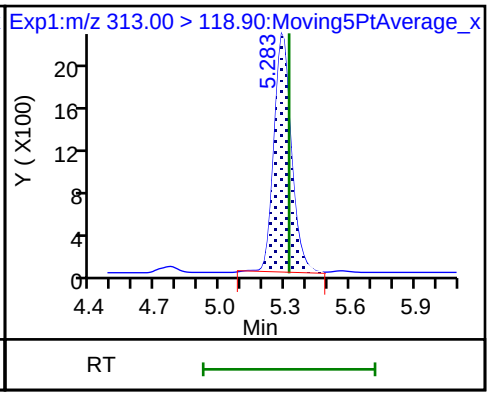
* 16 13C2 PFHxA



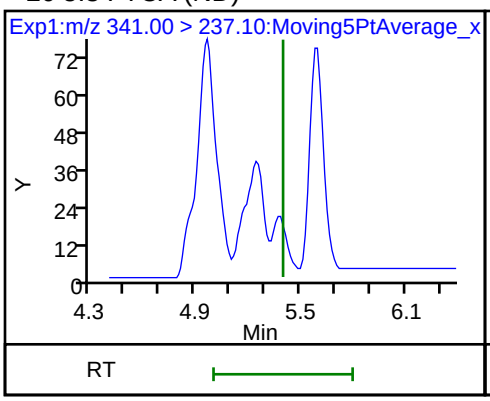
17 PFHxA



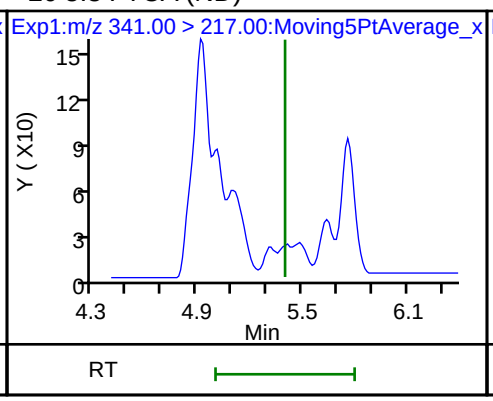
17 PFHxA



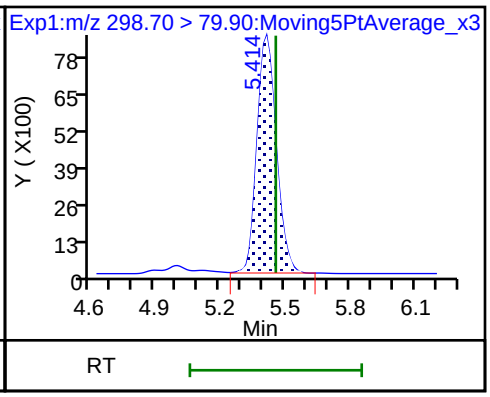
20 5:3 FTCA (ND)



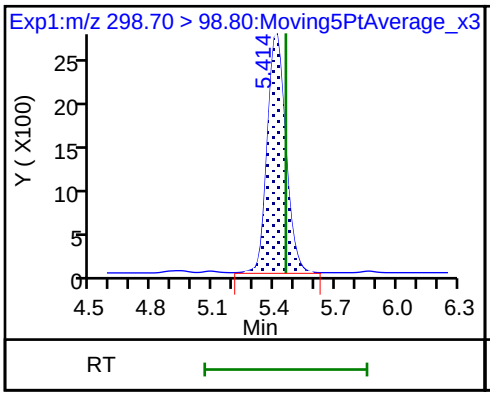
20 5:3 FTCA (ND)



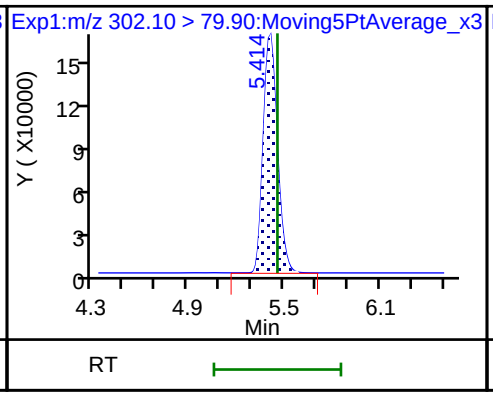
19 PFBS



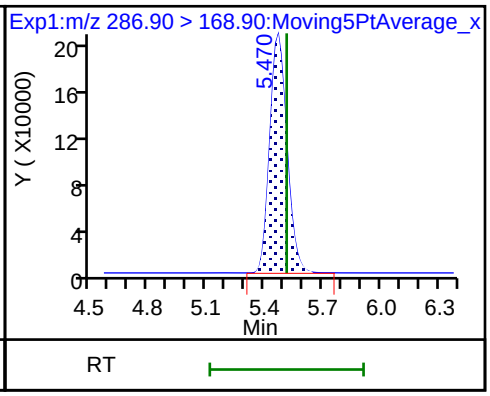
19 PFBS



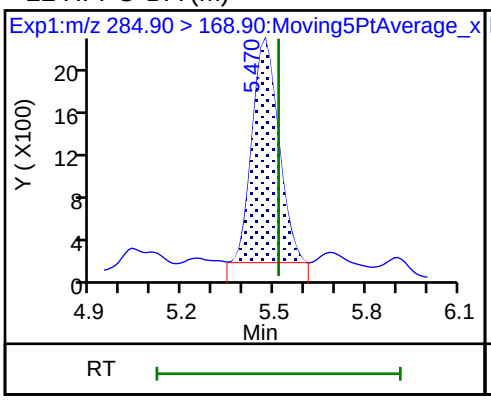
D 18 13C3 PFBS



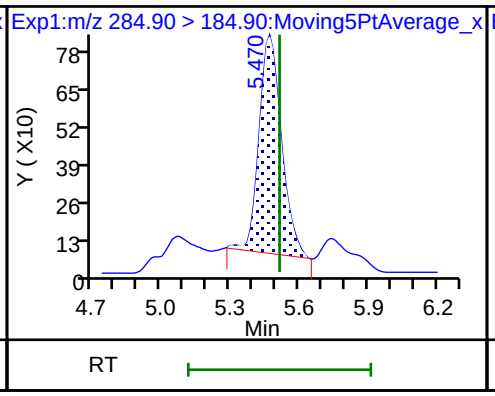
D 21 13C3 HFPO-DA



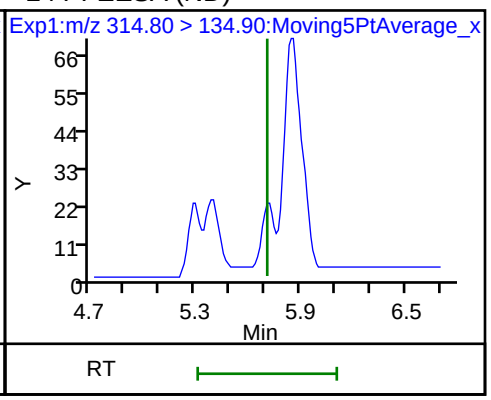
22 HFPO-DA (M)



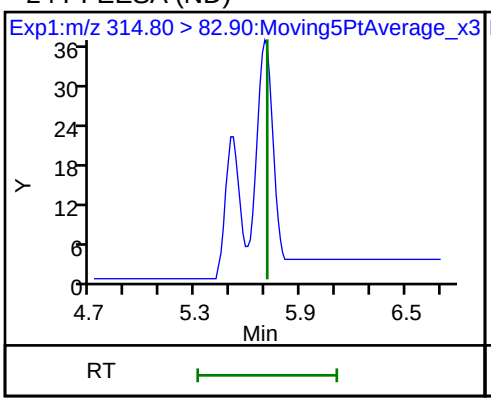
22 HFPO-DA



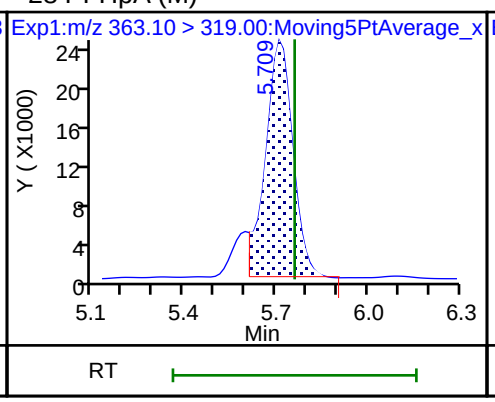
24 PFEESA (ND)



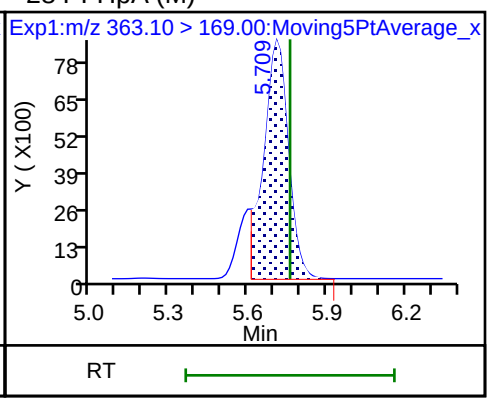
24 PFEESA (ND)



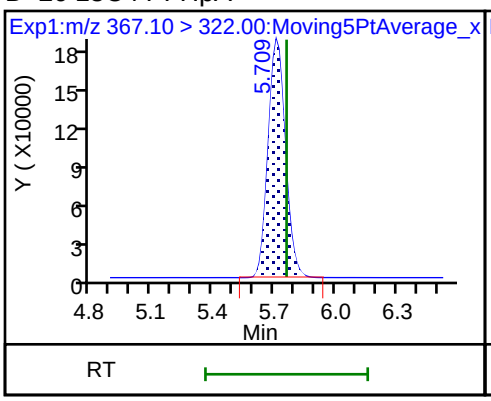
28 PFHpA (M)



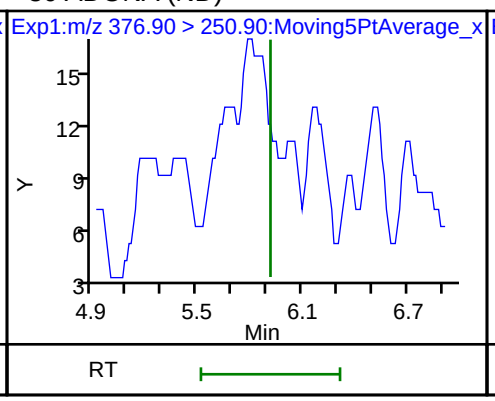
28 PFHpA (M)



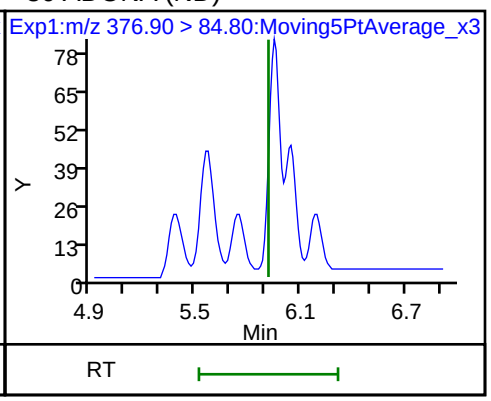
D 26 13C4 PFHpA



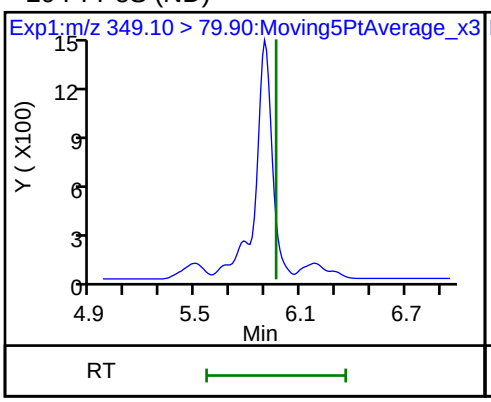
30 ADONA (ND)



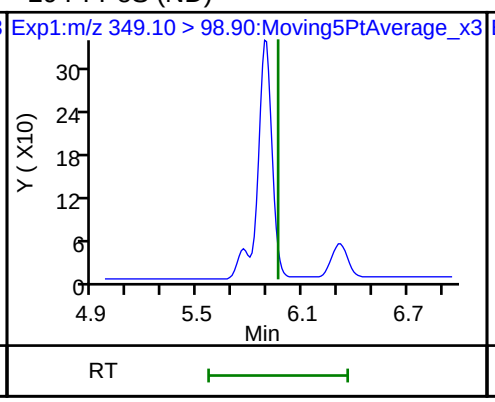
30 ADONA (ND)



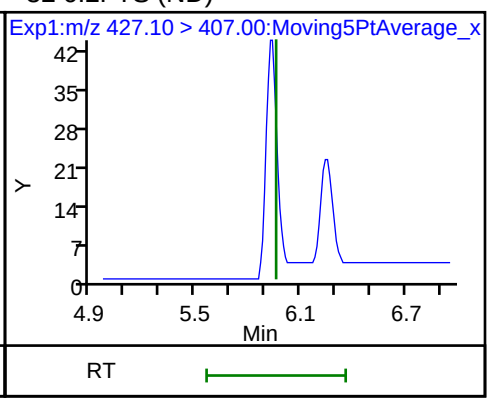
29 PFPeS (ND)



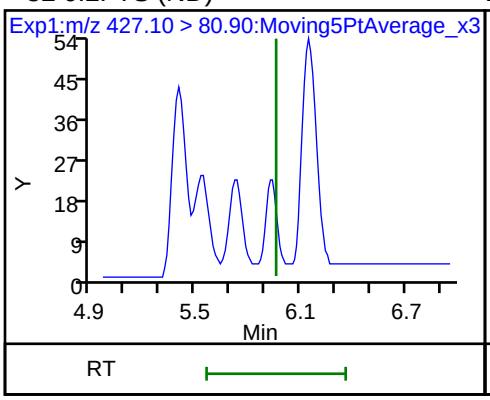
29 PFPeS (ND)



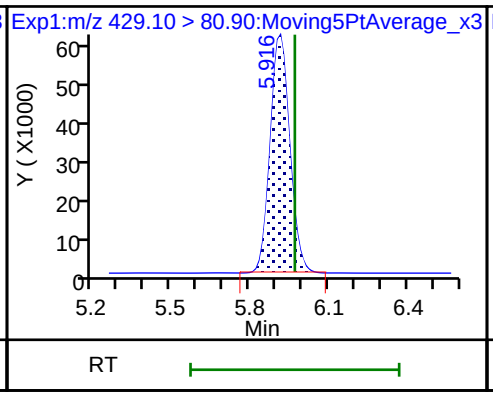
32 6:2FTS (ND)



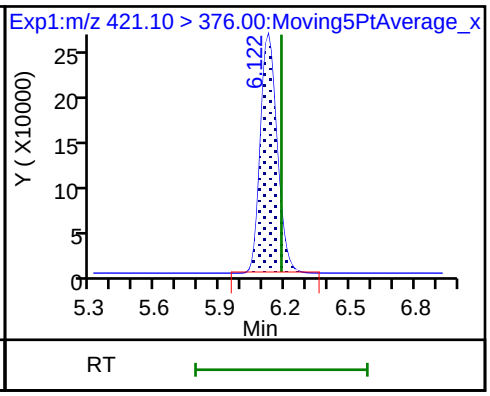
32 6:2FTS (ND)



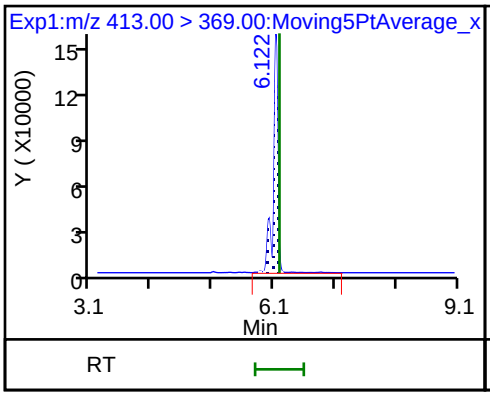
D 31 13C2-6:2FTS



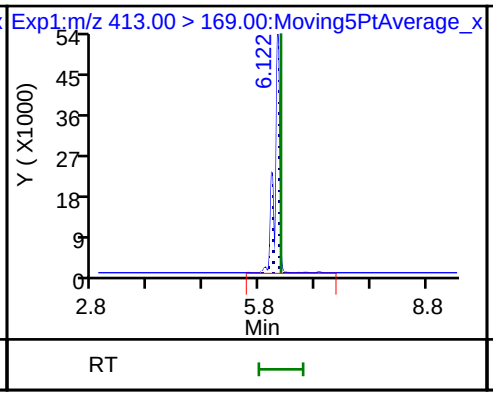
D 34 13C8 PFOA



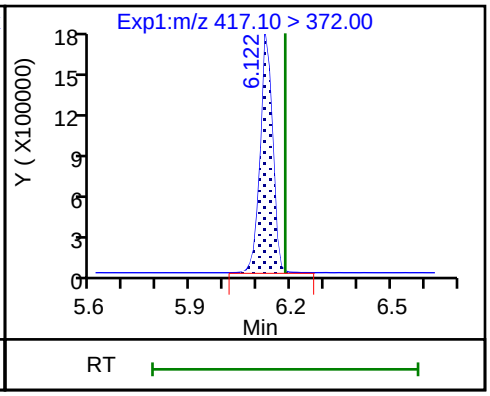
36 PFOA



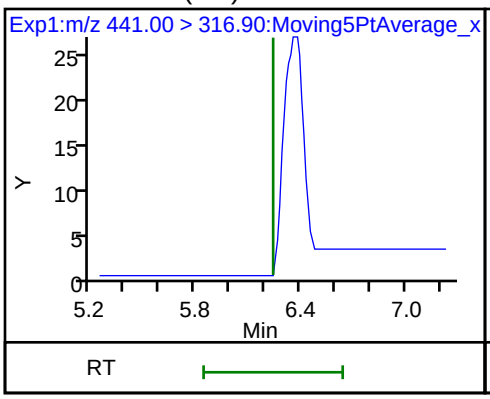
36 PFOA



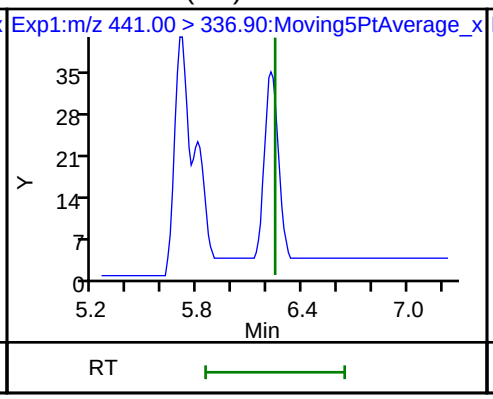
* 35 13C4 PFOA



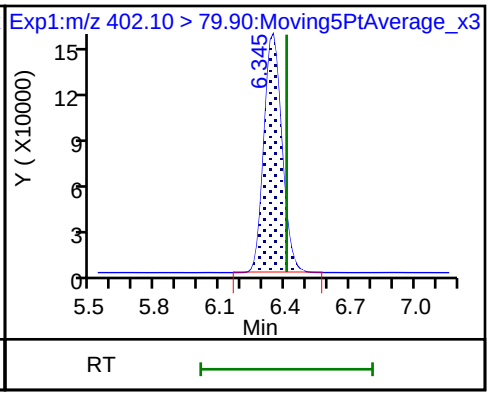
39 7:3 FTCA (ND)



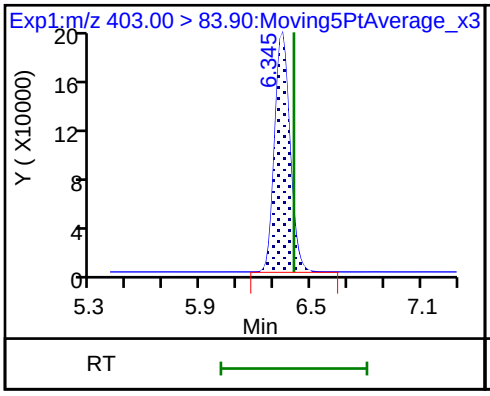
39 7:3 FTCA (ND)



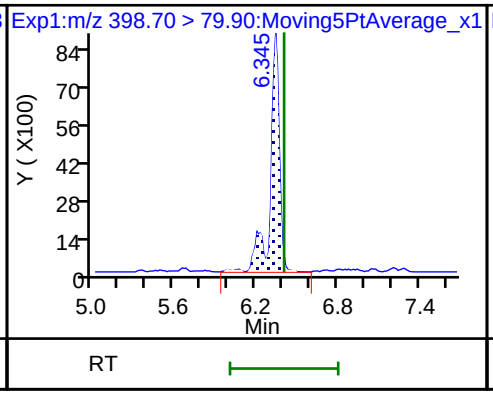
D 38 13C3 PFHxS



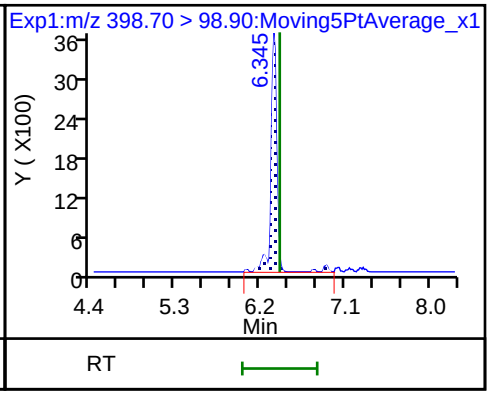
* 37 18O2 PFHxS



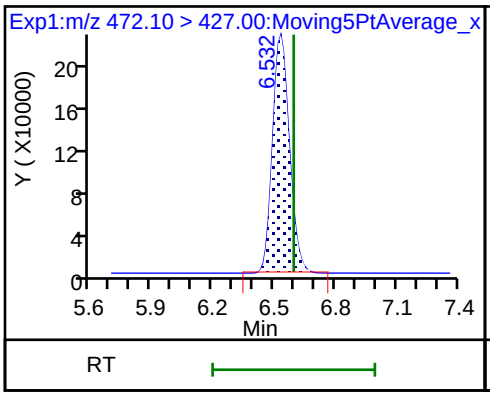
40 PFHxS



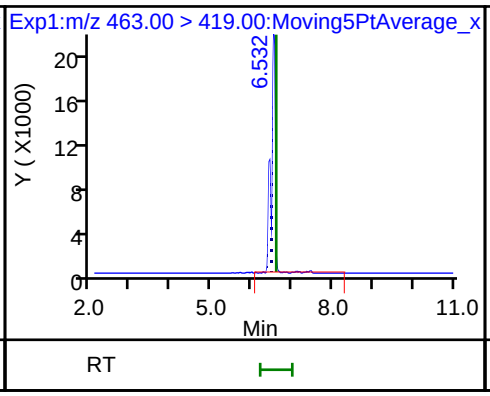
40 PFHxS



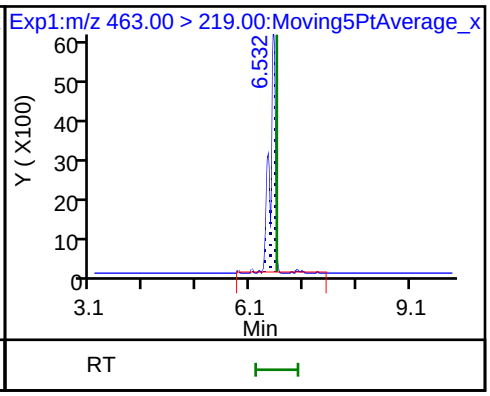
D 41 13C9 PFNA



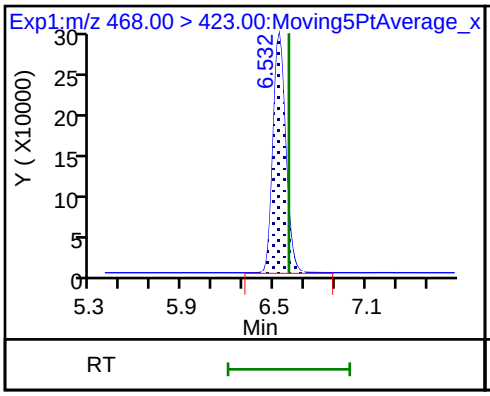
43 PFNA



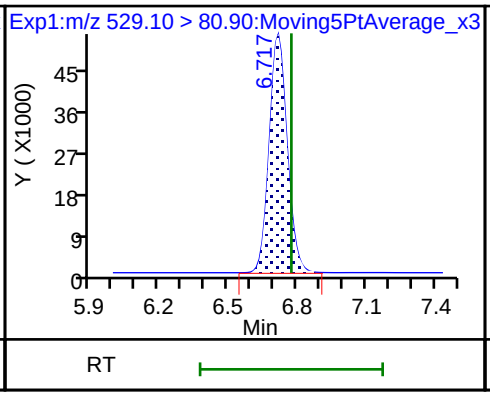
43 PFNA



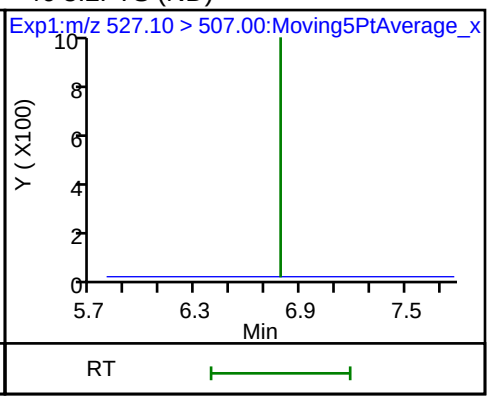
* 42 13C5 PFNA



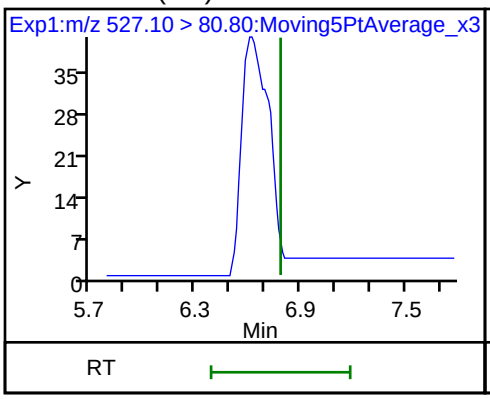
D 45 13C2-8:2FTS



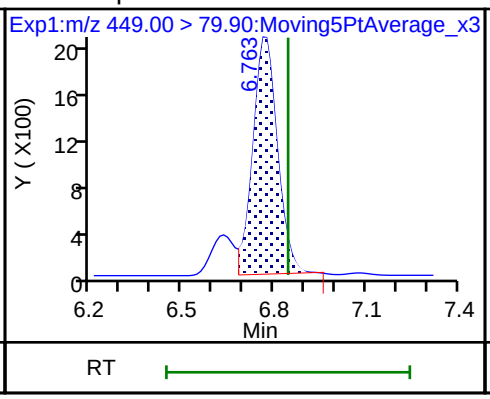
46 8:2FTS (ND)



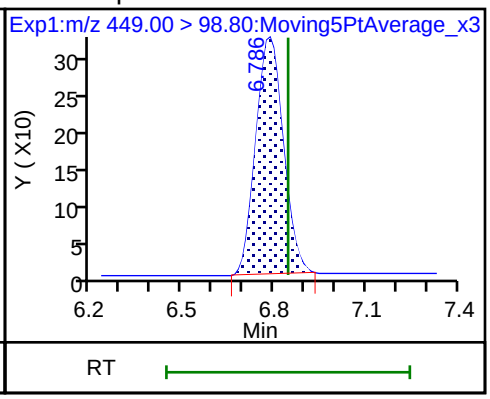
46 8:2FTS (ND)



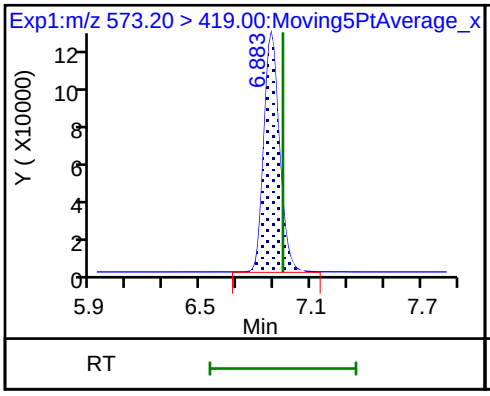
47 PFHpS



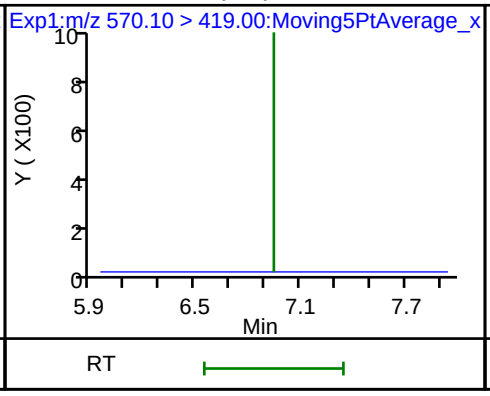
47 PFHpS



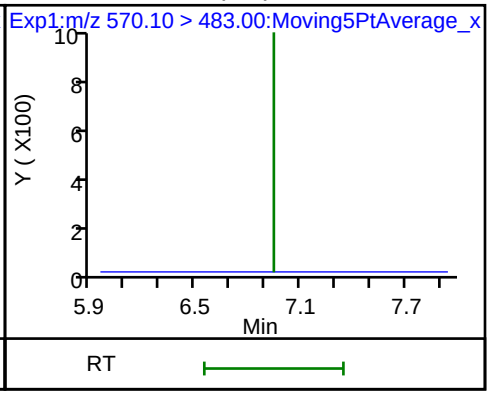
D 49 d3-NMeFOSAA



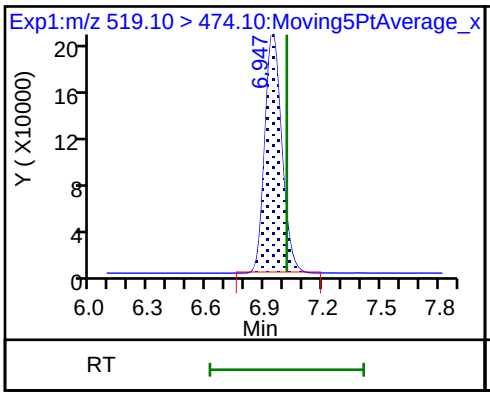
50 NMeFOSAA (ND)



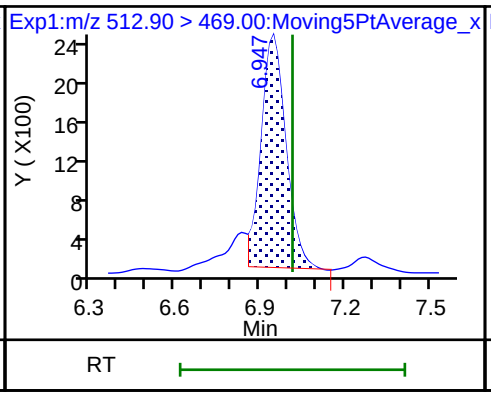
50 NMeFOSAA (ND)



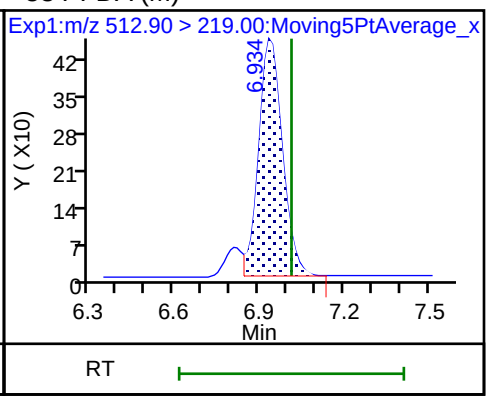
D 51 13C6 PFDA



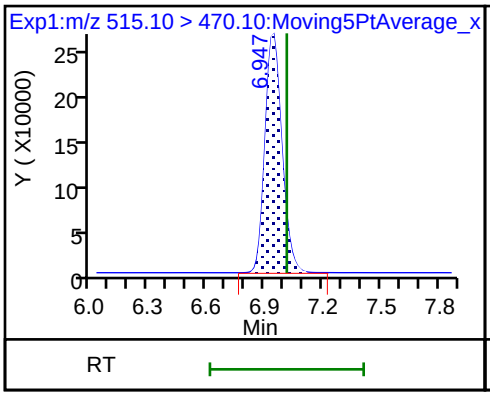
53 PFDA



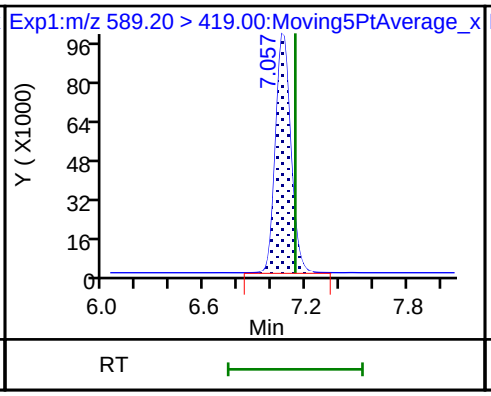
53 PFDA (M)



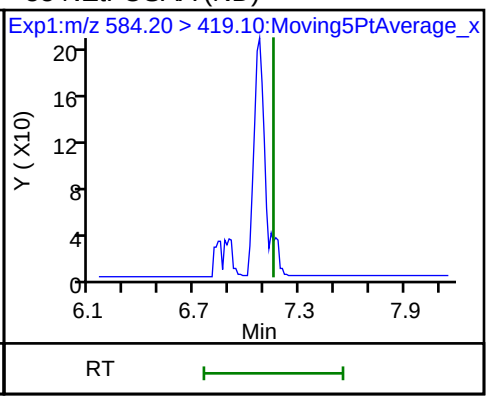
* 52 13C2 PFDA



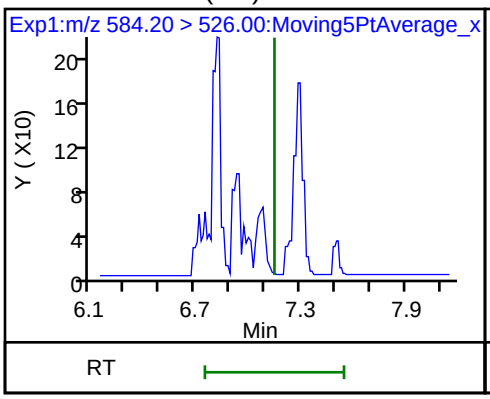
D 54 d5-NEtFOSAA



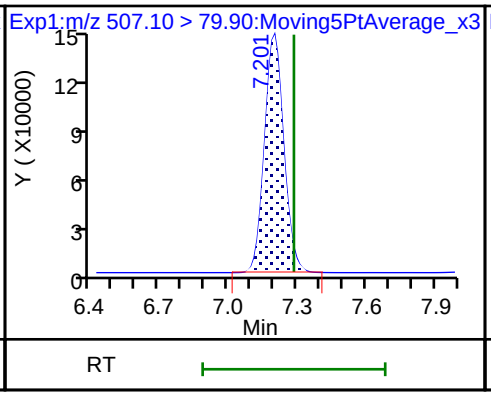
55 NEtFOSAA (ND)



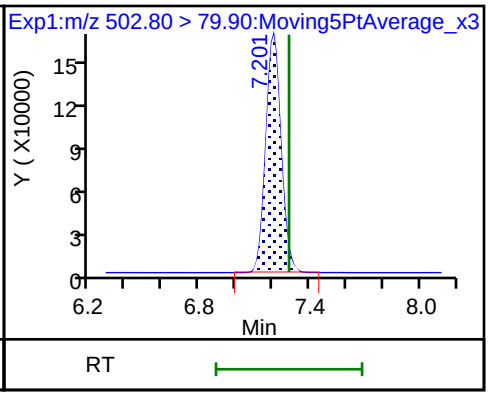
55 NEtFOSAA (ND)



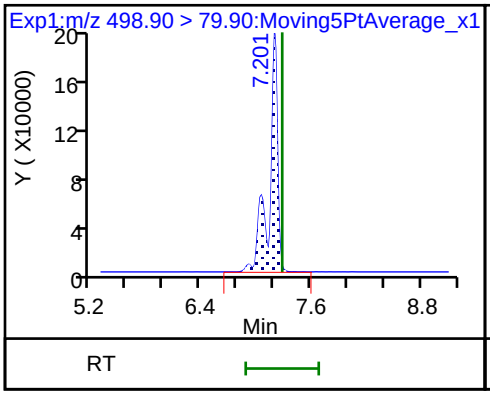
D 56 13C8 PFOS



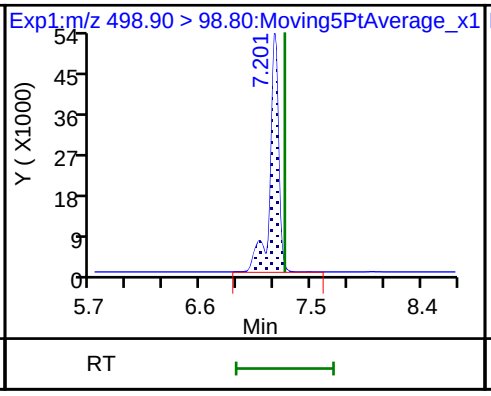
* 57 13C4 PFOS



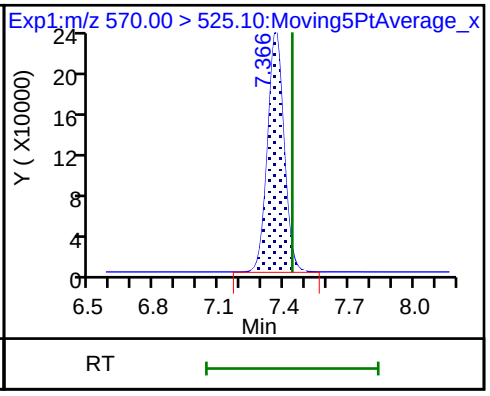
58 PFOS



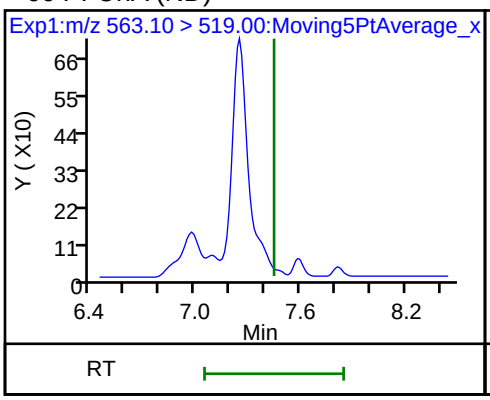
58 PFOS



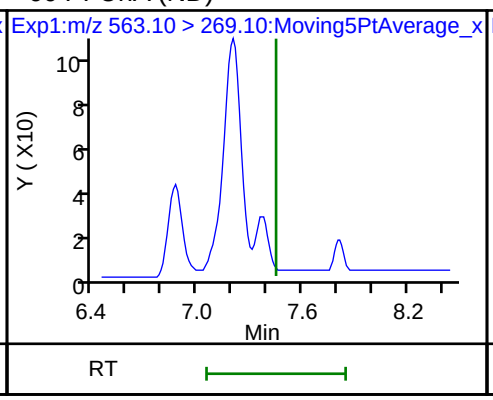
D 59 13C7 PFUnA



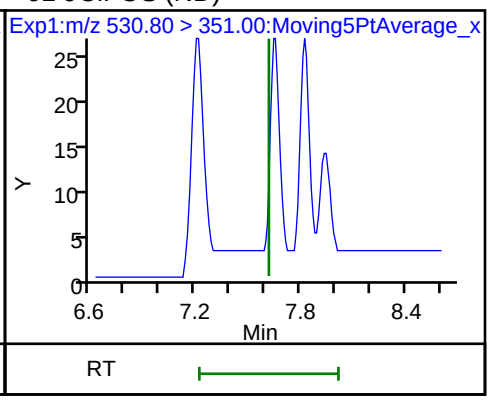
60 PFUnA (ND)



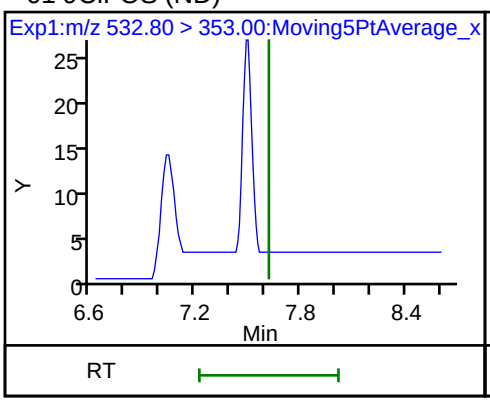
60 PFUnA (ND)



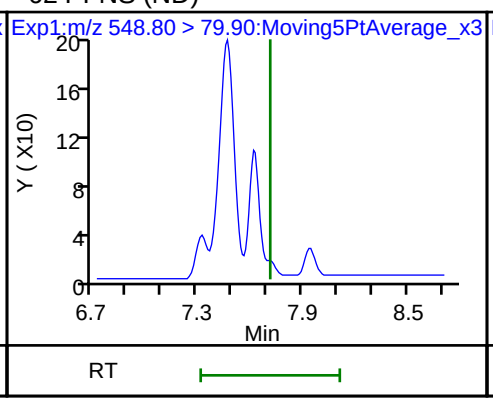
61 9ClFOS (ND)



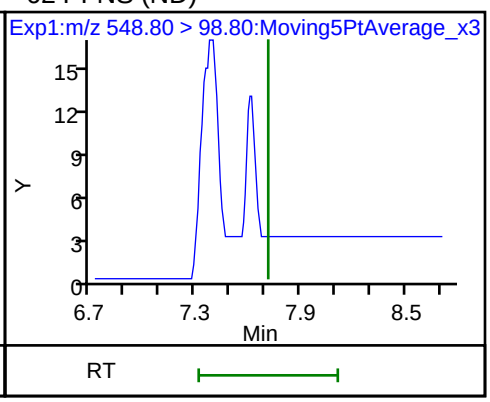
61 9ClFOS (ND)



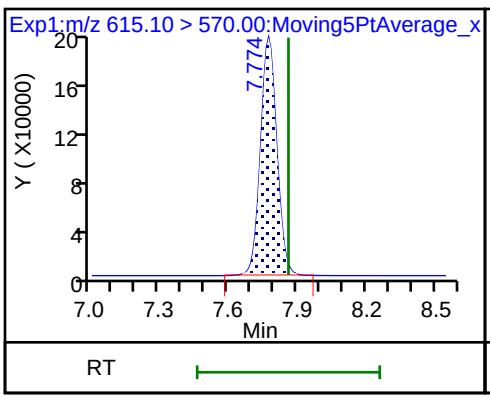
62 PFNS (ND)



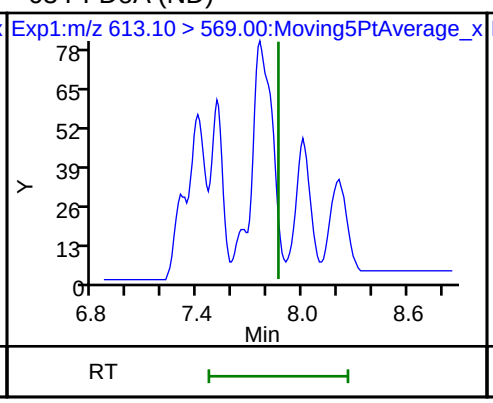
62 PFNS (ND)



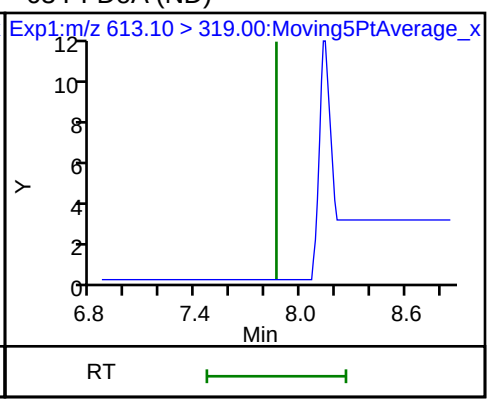
D 82 PFDoA



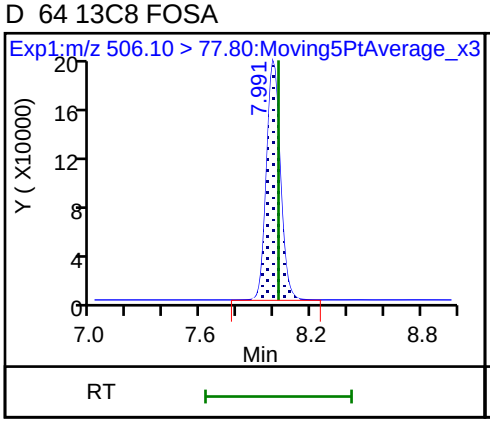
63 PFDoA (ND)



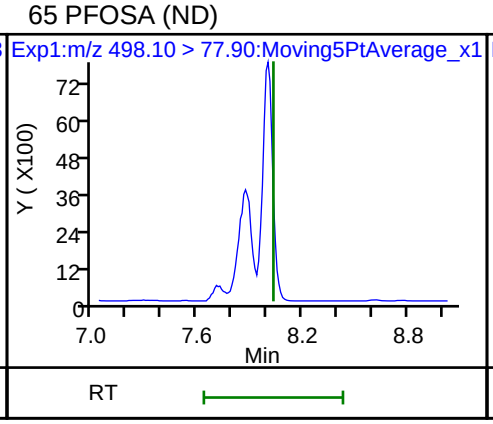
63 PFDoA (ND)



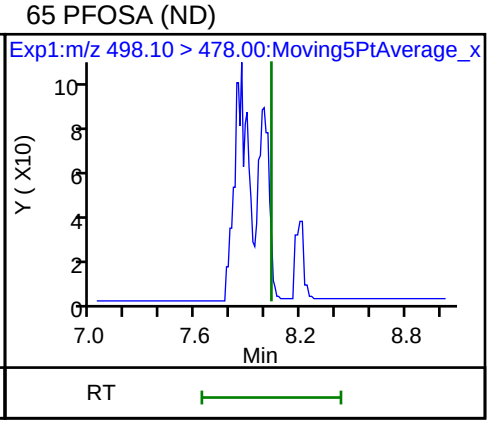
D 64 13C8 FOSA



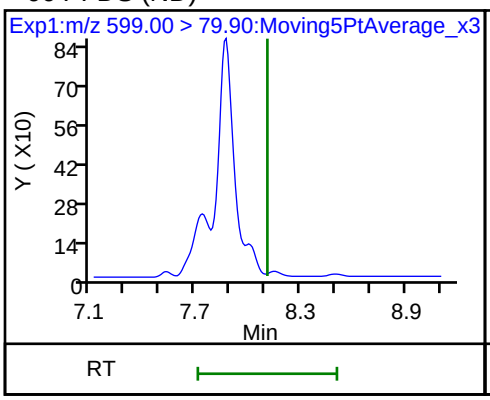
65 PFOSA (ND)



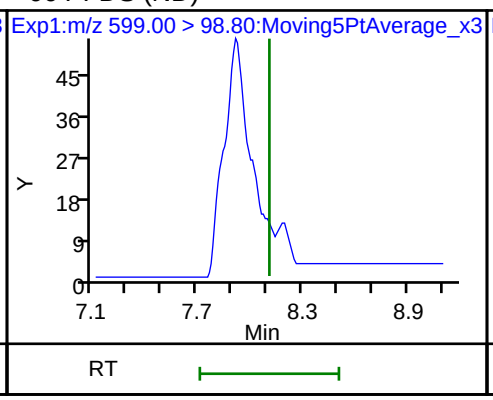
65 PFOSA (ND)



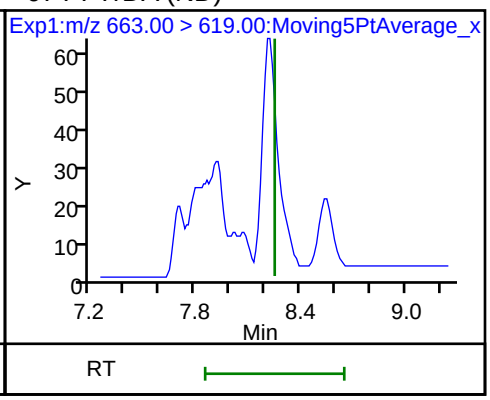
66 PFDS (ND)



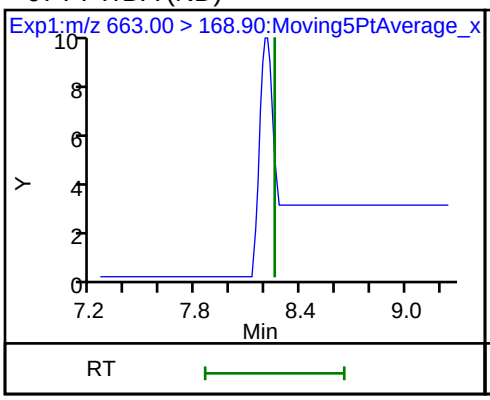
66 PFDS (ND)



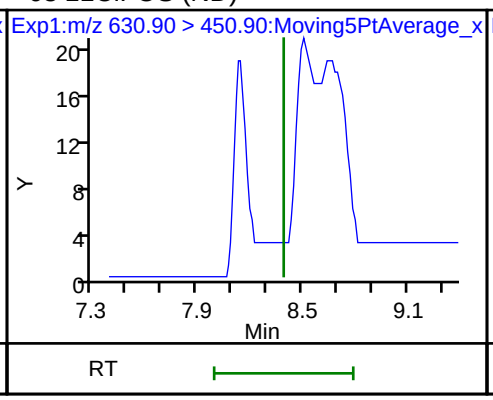
67 PFTrDA (ND)



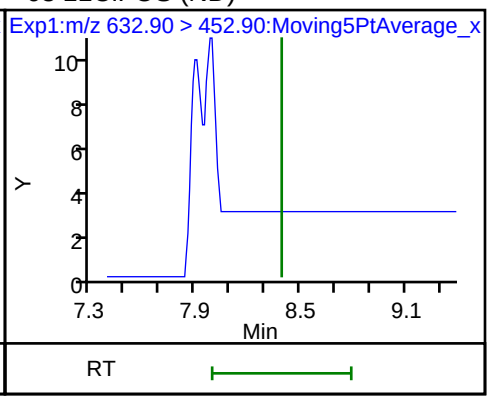
67 PFTrDA (ND)



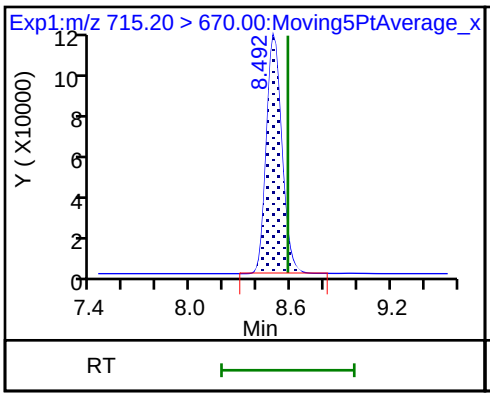
68 11ClFOS (ND)



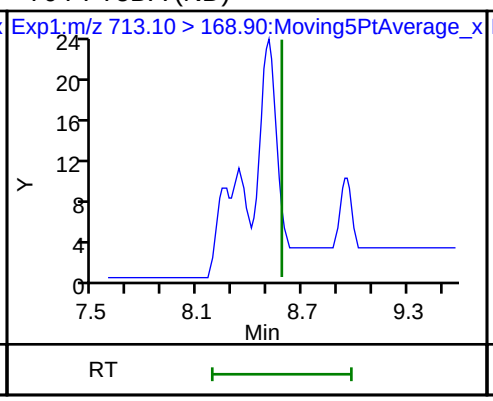
68 11ClFOS (ND)



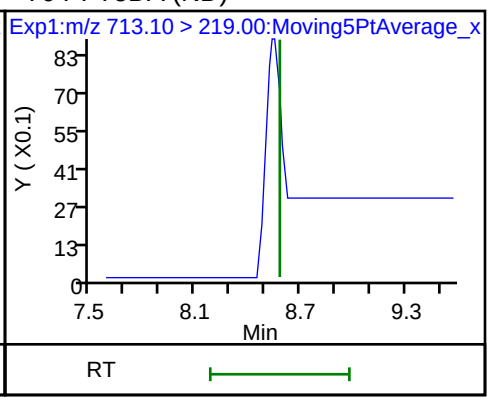
D 69 13C2 PFTeDA



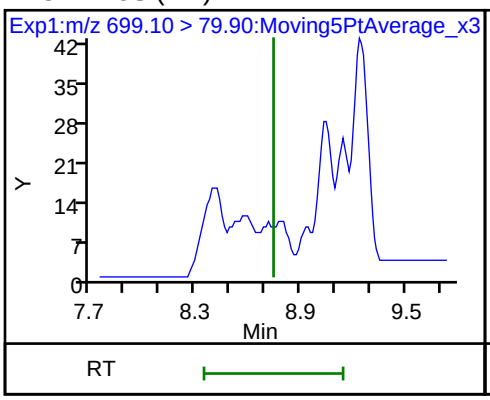
70 PFTeDA (ND)



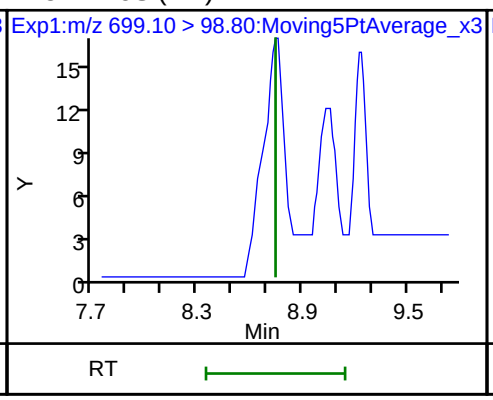
70 PFTeDA (ND)



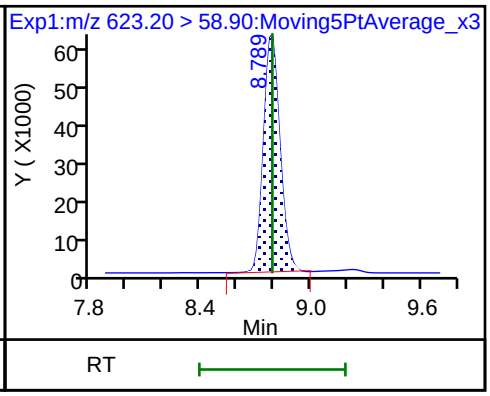
73 PFDoS (ND)



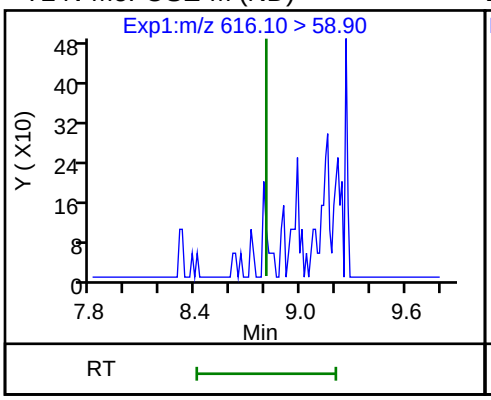
73 PFDoS (ND)



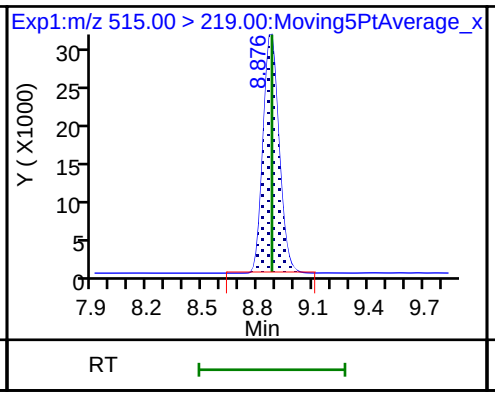
D 71 d7-N-Me-FOSE



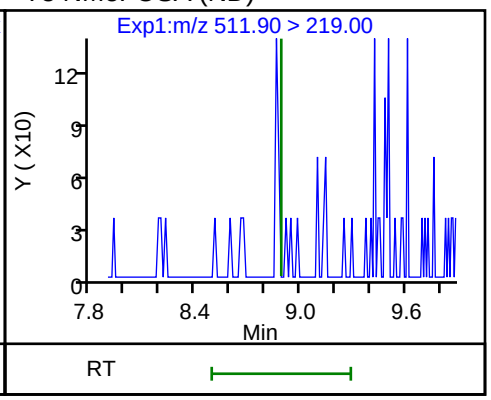
72 N-MeFOSE-M (ND)



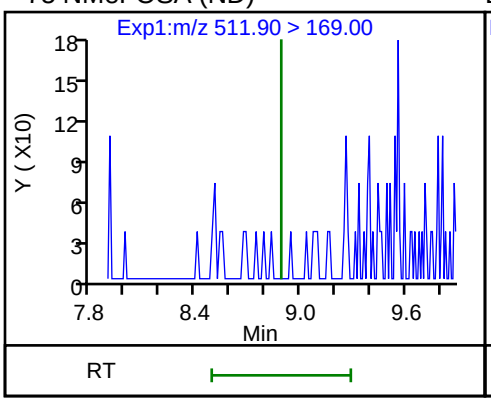
D 74 d3-NMePFOSA



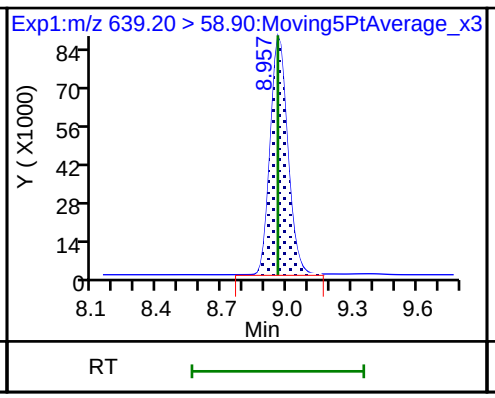
75 NMeFOSA (ND)



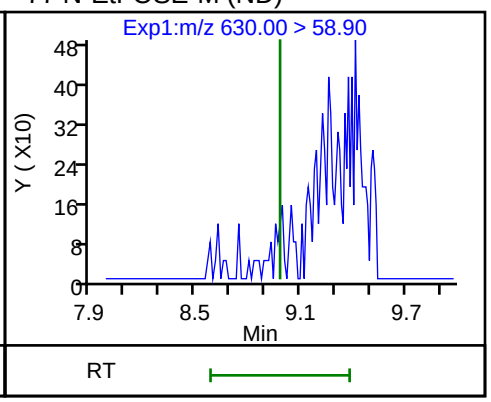
75 NMeFOSA (ND)



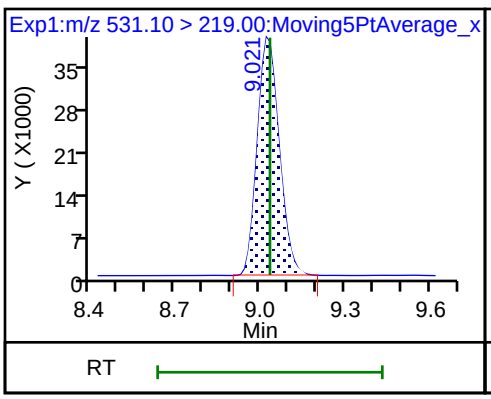
D 76 d9-N-EtFOSE



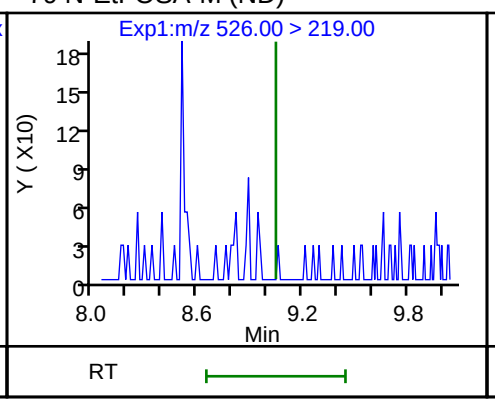
77 N-EtFOSE-M (ND)



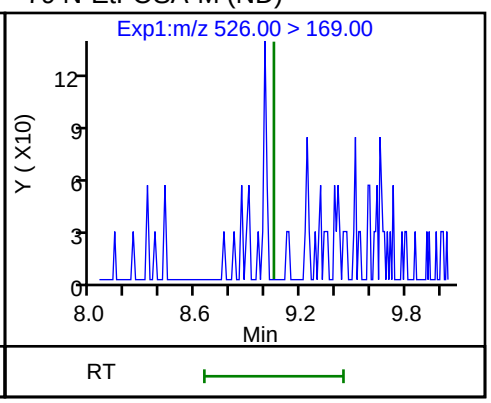
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

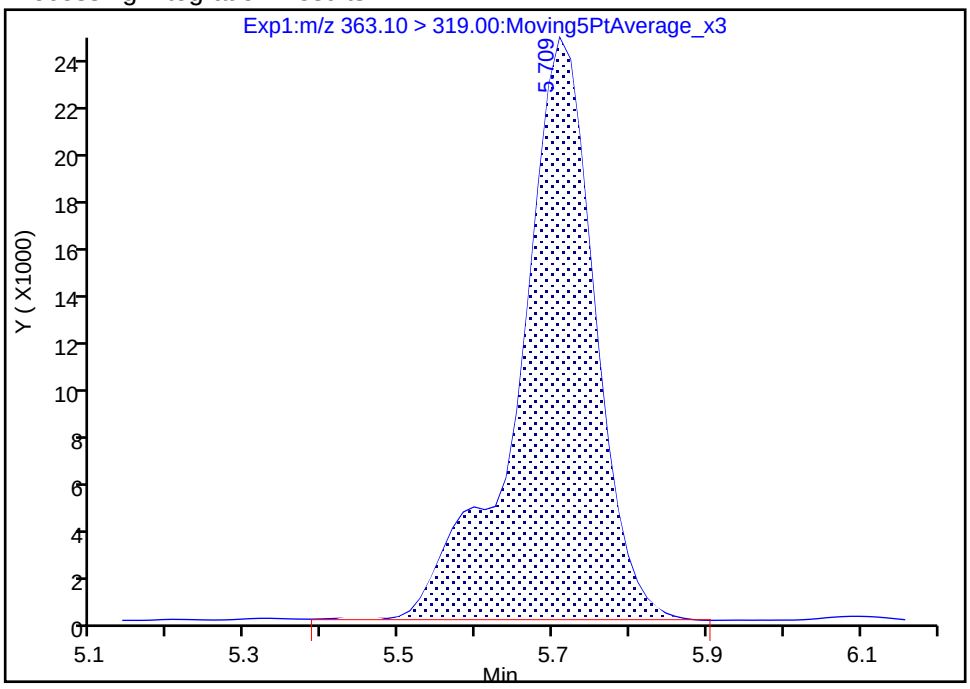
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-09.d				
Injection Date:	17-Feb-2025 17:47:50	Instrument ID:	30576		
Lims ID:	410-207884-A-1-B	Lab Sample ID:	410-207884-1		
Client ID:	MW-30D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	14	Worklist Smp#:	82
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 1

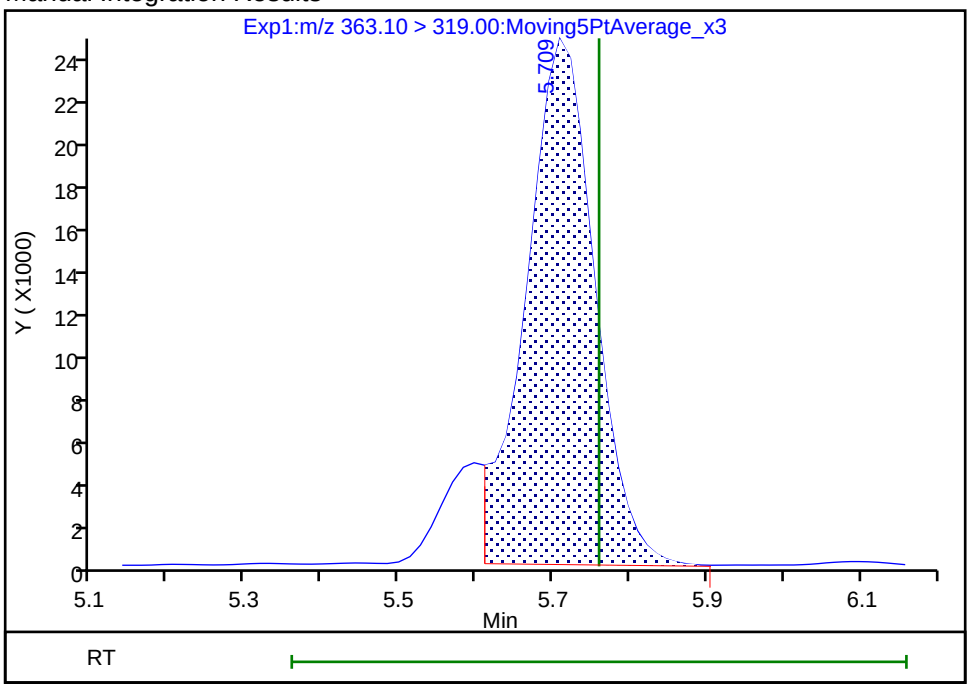
Processing Integration Results

RT: 5.71
Area: 168258
Amount: 0.334626
Amount Units: ng/ml



Manual Integration Results

RT: 5.71
Area: 150253
Amount: 0.298818
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:29:04 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

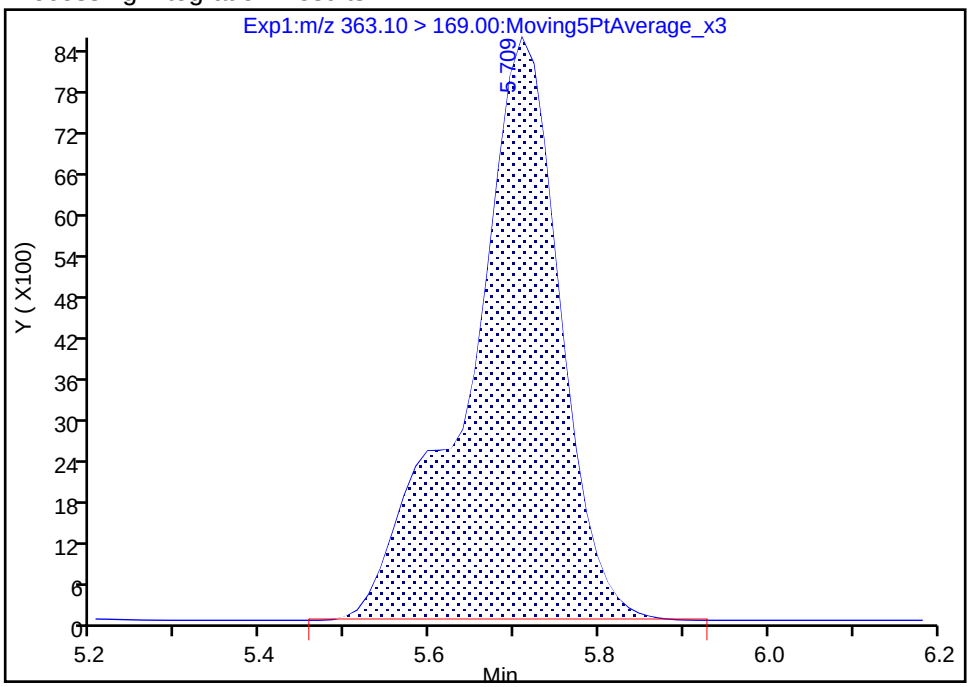
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-09.d				
Injection Date:	17-Feb-2025 17:47:50	Instrument ID:	30576		
Lims ID:	410-207884-A-1-B	Lab Sample ID:	410-207884-1		
Client ID:	MW-30D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	14	Worklist Smp#:	82
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 2

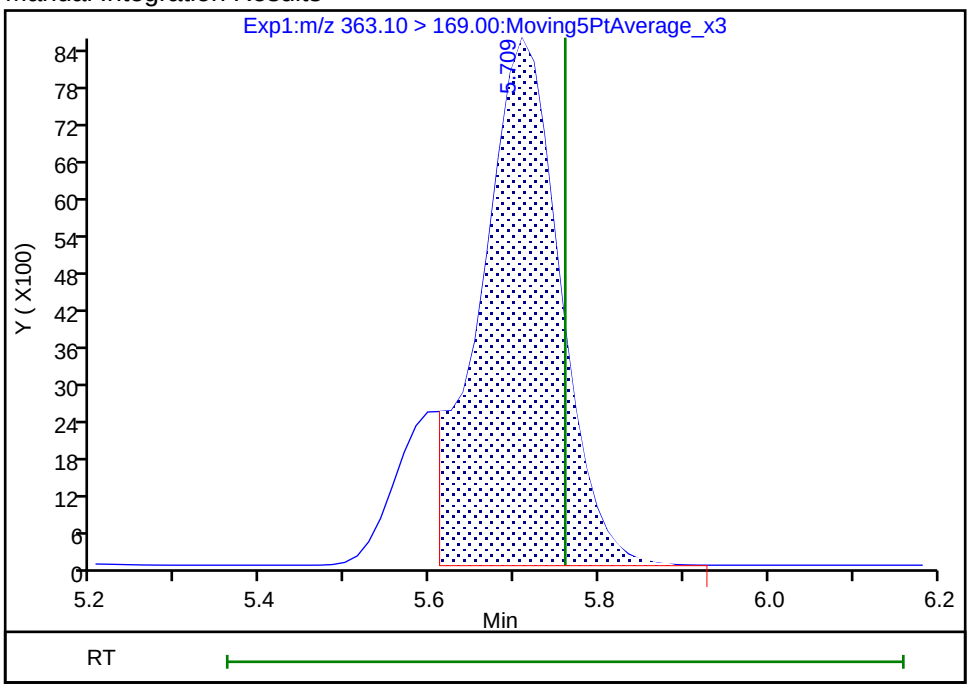
Processing Integration Results

RT: 5.71
Area: 63986
Amount: 0.334626
Amount Units: ng/ml



Manual Integration Results

RT: 5.71
Area: 55254
Amount: 0.298818
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:29:07 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

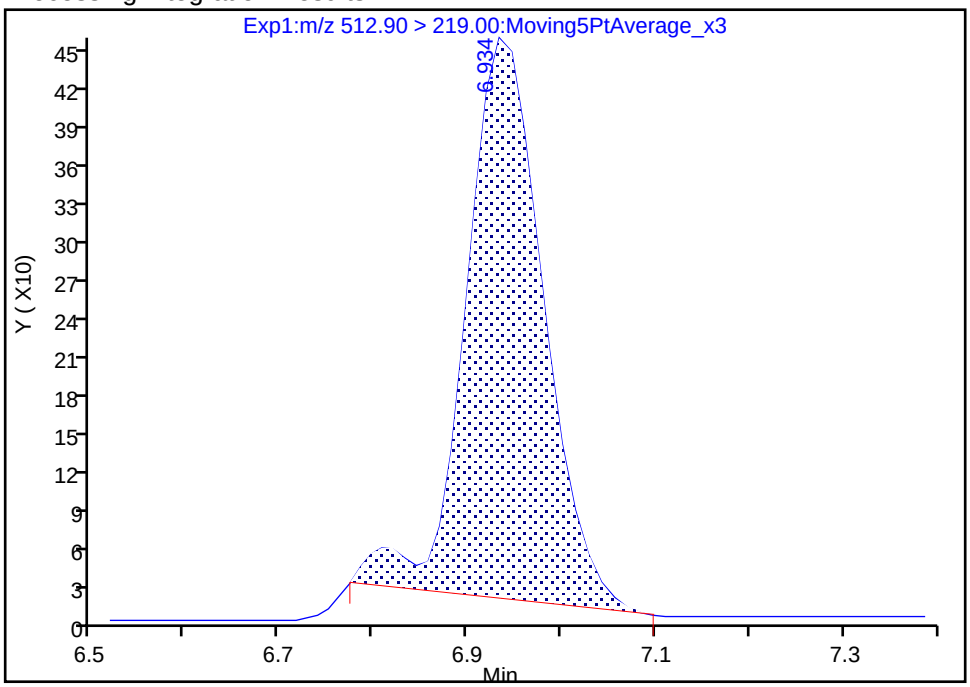
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-09.d				
Injection Date:	17-Feb-2025 17:47:50	Instrument ID:	30576		
Lims ID:	410-207884-A-1-B	Lab Sample ID:	410-207884-1		
Client ID:	MW-30D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	14	Worklist Smp#:	82
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

53 PFDA, CAS: 335-76-2

Signal: 2

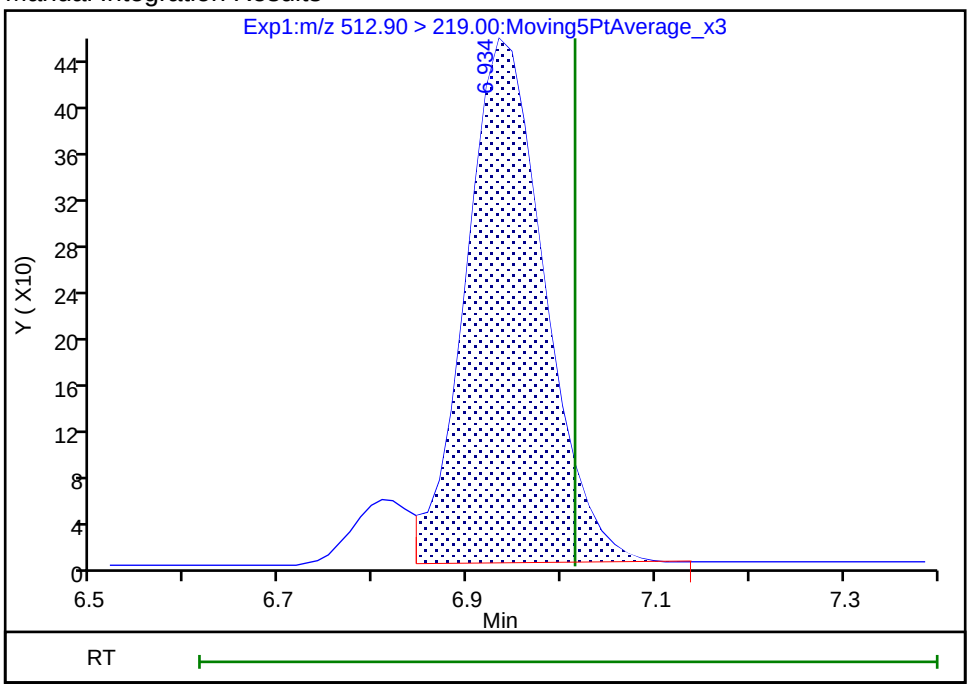
Processing Integration Results

RT: 6.93
Area: 2563
Amount: 0.027394
Amount Units: ng/ml



Manual Integration Results

RT: 6.93
Area: 2648
Amount: 0.027394
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:29:32 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

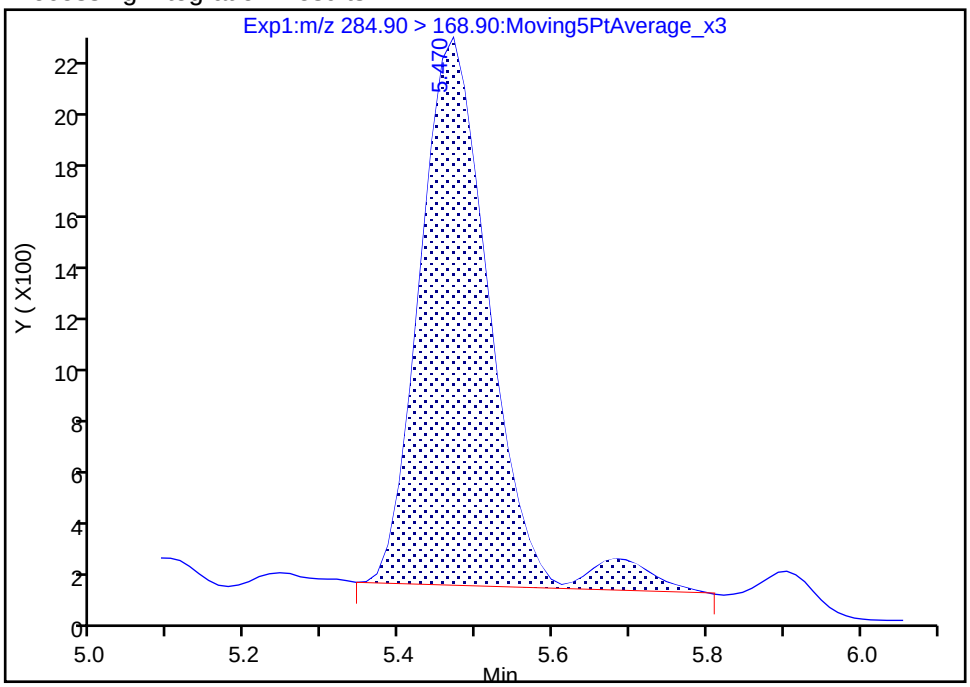
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-09.d				
Injection Date:	17-Feb-2025 17:47:50	Instrument ID:	30576		
Lims ID:	410-207884-A-1-B	Lab Sample ID:	410-207884-1		
Client ID:	MW-30D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	14	Worklist Smp#:	82
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

22 HFPO-DA, CAS: 13252-13-6

Signal: 1

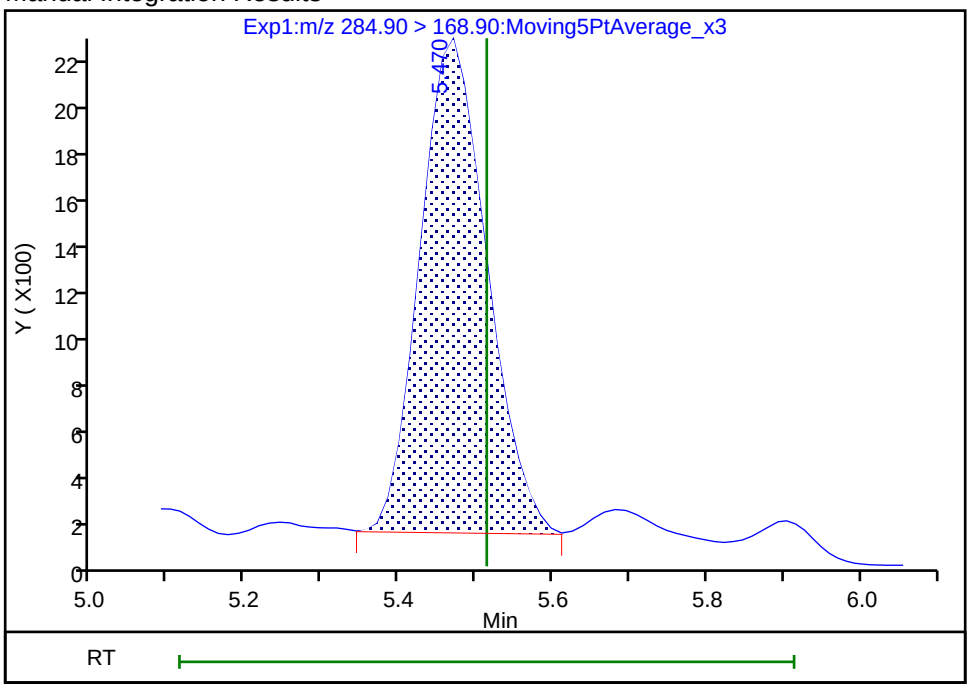
Processing Integration Results

RT: 5.47
Area: 13794
Amount: 0.021376
Amount Units: ng/ml



Manual Integration Results

RT: 5.47
Area: 12918
Amount: 0.020018
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:28:54 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: EB-01-021125
Lab Sample ID: 410-207884-2

Matrix: Water
Lab File ID: 25FEB17W-10.d

Analysis Method: 1633
Date Collected: 02/11/2025 18:00

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 132.3(mL)
Date Analyzed: 02/17/2025 18:01

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		3.8	1.0
2706-90-3	Perfluoropentanoic acid	ND		1.9	0.57
307-24-4	Perfluorohexanoic acid	ND		1.9	0.47
375-85-9	Perfluoroheptanoic acid	ND		1.9	0.76
335-67-1	Perfluorooctanoic acid	ND		1.9	0.85
375-95-1	Perfluorononanoic acid	ND		1.9	0.47
335-76-2	Perfluorodecanoic acid	ND		1.9	0.47
2058-94-8	Perfluoroundecanoic acid	ND		1.9	0.47
307-55-1	Perfluorododecanoic acid	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid	ND		1.9	0.47
2706-91-4	Perfluoropentanesulfonic acid	ND		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid	ND		1.9	0.76
375-92-8	Perfluoroheptanesulfonic acid	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid	ND		1.9	0.47
68259-12-1	Perfluorononanesulfonic acid	ND		1.9	0.47
335-77-3	Perfluorodecanesulfonic acid	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.57
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.8	0.94
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.8	0.94
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.8	0.94
754-91-6	Perfluorooctanesulfonamide	ND		1.9	0.47
31506-32-8	NMeFOSA	ND		1.9	0.47
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.47
2355-31-9	NMeFOSAA	ND		1.9	0.47
2991-50-6	NEtFOSAA	ND		1.9	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: EB-01-021125
Lab Sample ID: 410-207884-2

Matrix: Water
Lab File ID: 25FEB17W-10.d

Analysis Method: 1633
Date Collected: 02/11/2025 18:00

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 132.3(mL)
Date Analyzed: 02/17/2025 18:01

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		9.4	2.4
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		9.4	2.4
13252-13-6	HFPO-DA	ND		1.9	0.71
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.9	0.47
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.9	0.47
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.9	0.47
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.47
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.47
113507-82-7	PFEESA	ND		1.9	0.47
356-02-5	3:3 FTCA	ND		3.8	0.94
914637-49-3	5:3 FTCA	ND		9.4	2.6
812-70-4	7:3 FTCA	ND		9.4	2.4

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: EB-01-021125
Lab Sample ID: 410-207884-2

Matrix: Water
Lab File ID: 25FEB17W-10.d

Analysis Method: 1633
Date Collected: 02/11/2025 18:00

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 132.3(mL)
Date Analyzed: 02/17/2025 18:01

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	85.3		5-130
STL01893	13C5 PFPeA	103	cn	40-130
STL02577	13C5 PFHxA	103	cn	40-130
STL01892	13C4 PFHpA	108	cn	40-130
STL01052	13C8 PFOA	77.2		40-130
STL02578	13C9 PFNA	78.0		40-130
STL02579	13C6 PFDA	85.5		40-130
STL02580	13C7 PFUnA	92.3	cn	30-130
STL02116	13C2 PFTeDA	80.8	cn	10-130
STL02337	13C3 PFBS	80.8		40-135
STL02581	13C3 PFHxS	76.5		40-130
STL01054	13C8 PFOS	93.8		40-130
STL01056	13C8 FOSA	80.4		40-130
STL02118	d3-NMeFOSAA	88.6		40-170
STL02117	d5-NEtFOSAA	92.3		25-135
STL02395	M2-4:2 FTS	70.3		40-200
STL02279	M2-6:2 FTS	71.8		40-200
STL02280	M2-8:2 FTS	70.3		40-300
STL02255	13C3 HFPO-DA	107	cn	40-130
STL02277	d7-N-MeFOSE-M	81.8		10-130
STL02278	d9-N-EtFOSE-M	79.1		10-130
STL02704	d5-NEtPFOSA	55.1		10-130
STL02705	d3-NMePFOSA	53.1		10-130
STL00998	13C2 PFDoA	85.3		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-10.d
Lims ID: 410-207884-A-2-A
Client ID: EB-01-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 18:01:25 ALS Bottle#: 15 Worklist Smp#: 83
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-2-A
Misc. Info.: Plate: 2 Rack: 1 410-0138392-083
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:39 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 18:31:21
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.224	-0.043	1.000	1329016	1.71		85.3	69074	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.224	-0.043		1458969	2.00			27455	
D 8 13C5 PFPeA										
268.30 > 223.00	4.829	4.866	-0.037	0.912	736490	2.06		103	48451	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.112	5.139	-0.027	0.806	306535	3.30		70.3	13975	
D 15 13C5 PFHxA										
318.00 > 273.00	5.281	5.318	-0.037	0.998	1064589	2.06		103	61776	
* 16 13C2 PFHxA										
315.10 > 270.00	5.293	5.318	-0.025		2925783	5.00			170163	
D 18 13C3 PFBS										
302.10 > 79.90	5.412	5.456	-0.044	0.853	974763	1.51		80.8	52679	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.469	5.514	-0.045	1.033	1372676	2.15		107	74236	
D 26 13C4 PFHpA										
367.10 > 322.00	5.721	5.760	-0.039	1.081	1131281	2.16		108	64701	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.926	5.971	-0.045	0.934	332936	3.42		71.8	21574	
D 34 13C8 PFOA										
421.10 > 376.00	6.121	6.183	-0.062	0.998	1436611	1.54		77.2	88451	
* 35 13C4 PFOA										
417.10 > 372.00	6.133	6.183	-0.050		4361524	5.00			603097	
D 38 13C3 PFHxS										
402.10 > 79.90	6.342	6.407	-0.065	1.000	877751	1.45		76.5	50822	
* 37 18O2 PFHxS										
403.00 > 83.90	6.342	6.407	-0.065		1116107	1.89			64824	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 41 13C9 PFNA										
472.10 > 427.00	6.529	6.595	-0.066	1.000	1308955	1.56		78.0	75391	
* 42 13C5 PFNA										
468.00 > 423.00	6.529	6.595	-0.066		1638413	2.00			70425	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.726	6.774	-0.048	1.061	283540	3.37		70.3	17402	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.880	6.947	-0.067	0.954	803938	4.43		88.6	45663	
D 51 13C6 PFDA										
519.10 > 474.10	6.944	7.014	-0.070	1.000	1336704	1.71		85.5	55591	
* 52 13C2 PFDA										
515.10 > 470.10	6.944	7.014	-0.070		1483499	2.00			61132	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.067	7.137	-0.070	0.980	686702	4.61		92.3	37100	
D 56 13C8 PFOS										
507.10 > 79.90	7.198	7.285	-0.087	0.998	956935	1.79		93.8	41425	
* 57 13C4 PFOS										
502.80 > 79.90	7.210	7.285	-0.075		995803	1.91			57231	
D 59 13C7 PFUnA										
570.00 > 525.10	7.363	7.438	-0.075	1.060	1346949	1.85		92.3	86319	
D 82 PFDoA										
615.10 > 570.00	7.782	7.862	-0.080	1.121	1047894	1.71		85.3	70246	
D 64 13C8 FOSA										
506.10 > 77.80	7.997	8.022	-0.025	1.109	1021300	1.61		80.4	65297	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.500	8.581	-0.081	1.224	701775	1.62		80.8	36384	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.782	8.789	-0.007	1.218	404134	4.09		81.8	6540	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.868	8.876	-0.008	1.230	177076	1.06		53.1	10050	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.962	8.957	0.005	1.243	508447	3.96		79.1	15284	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.027	9.034	-0.007	1.252	207368	1.10		55.1	12792	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 18:31:42 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-10.d

Injection Date: 17-Feb-2025 18:01:25 Instrument ID: 30576

Lims ID: 410-207884-A-2-A Lab Sample ID: 410-207884-2

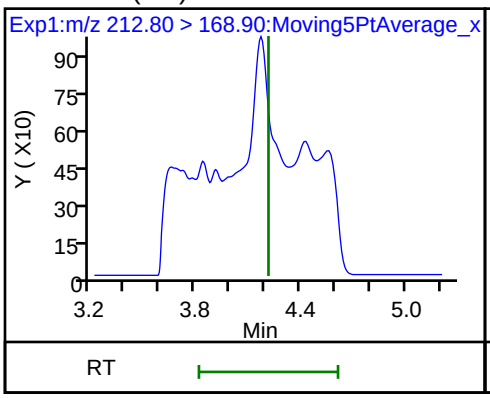
Client ID: EB-01-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 15 Worklist Smp#: 83

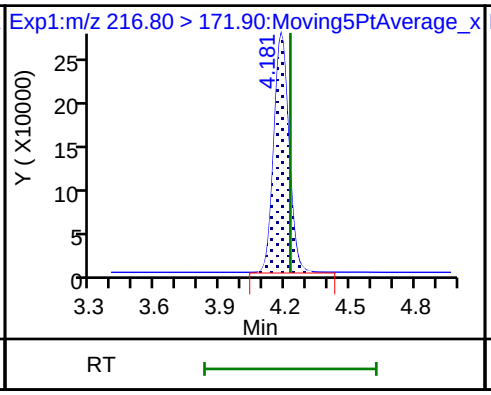
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

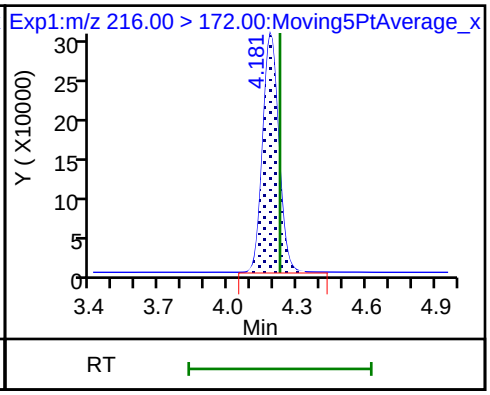
5 PFBA (ND)



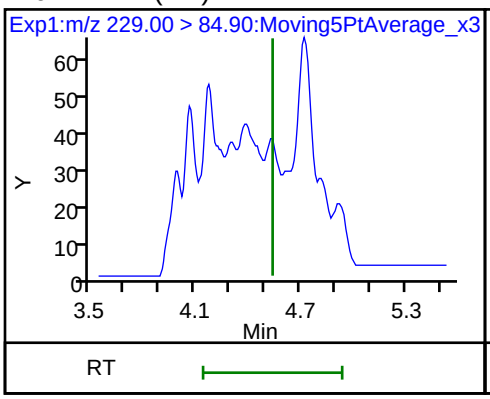
D 3 13C4-PFBA



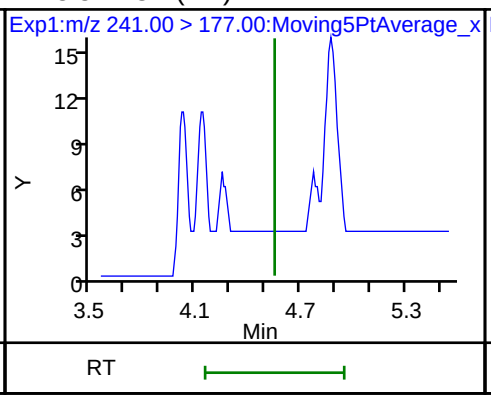
* 4 13C3PFBA



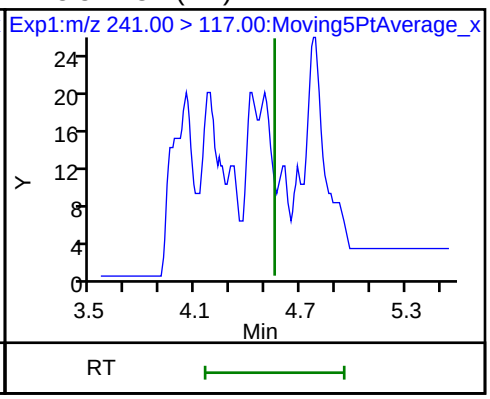
6 PFMPA (ND)



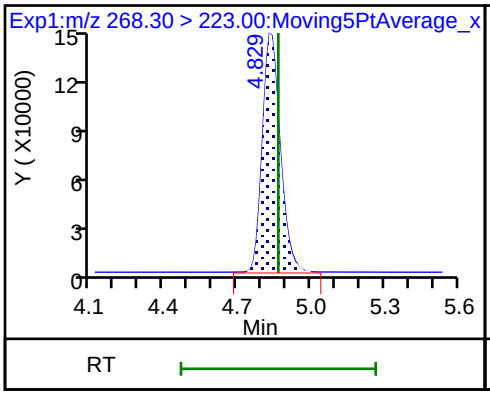
7 3:3 FTCA (ND)



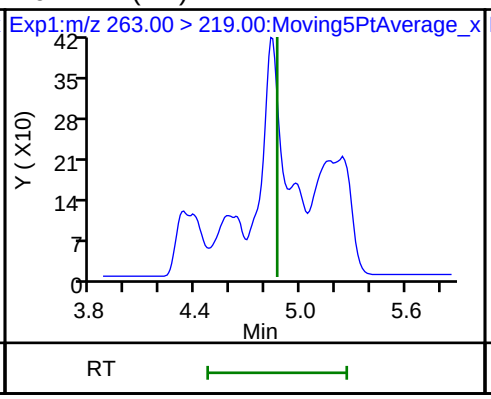
7 3:3 FTCA (ND)



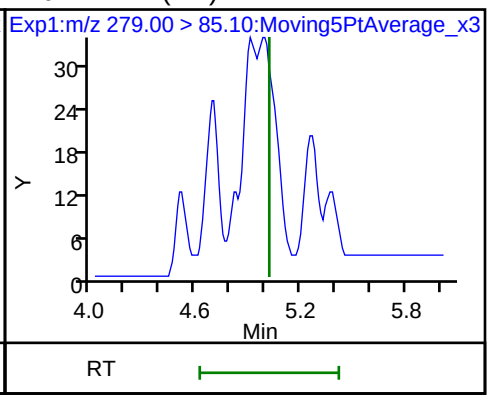
D 8 13C5 PFPeA



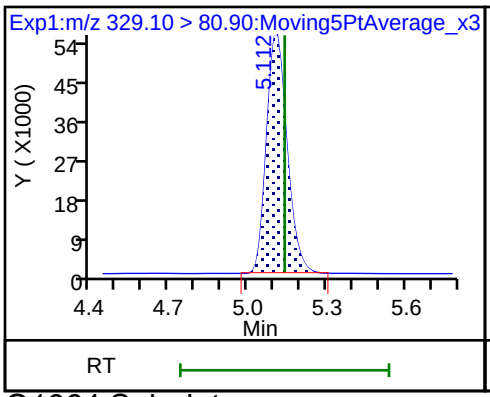
9 PFPA (ND)



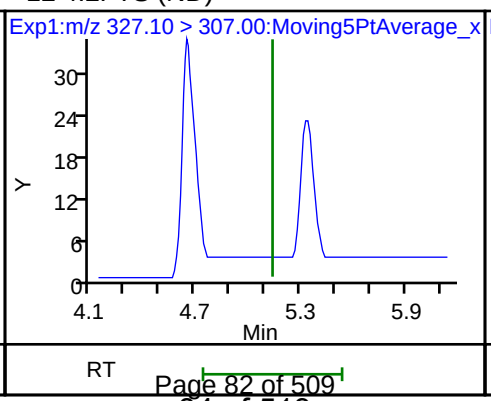
10 PFMBA (ND)



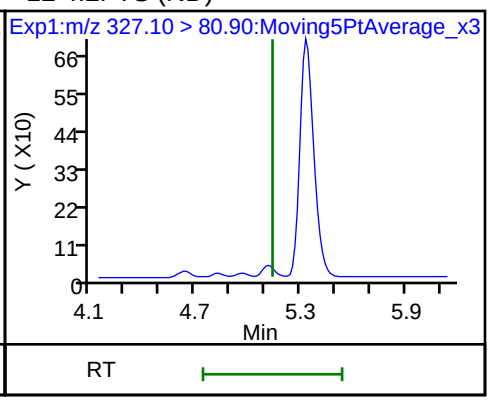
D 11 13C2-4:2FTS



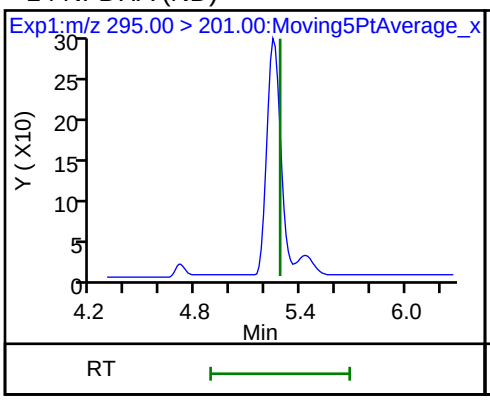
12 4:2FTS (ND)



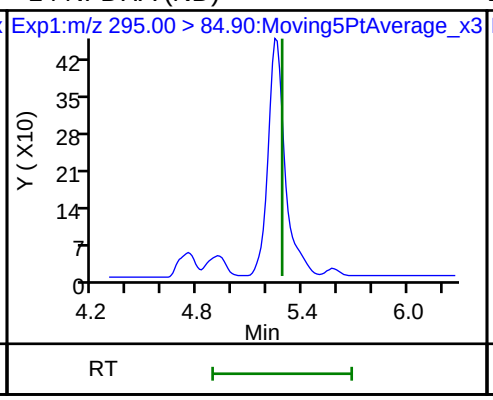
12 4:2FTS (ND)



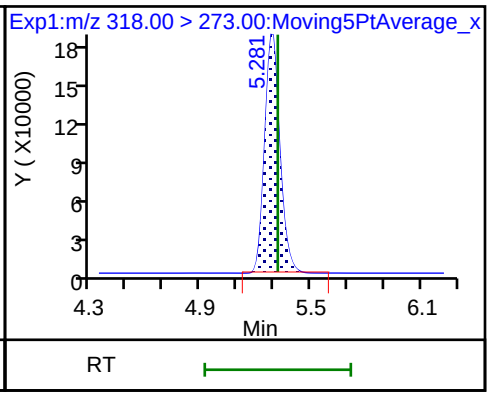
14 NFDHA (ND)



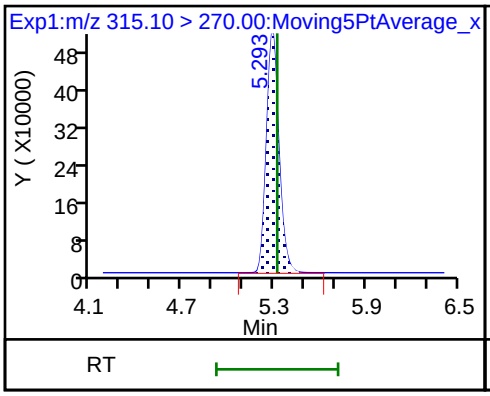
14 NFDHA (ND)



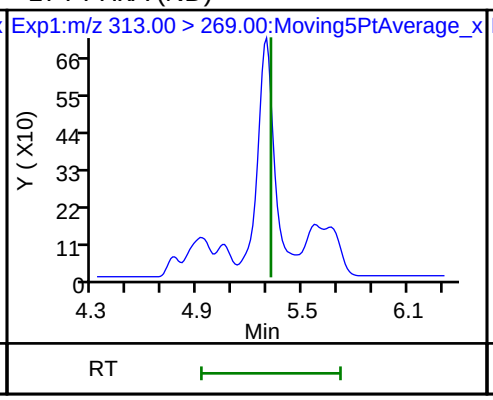
D 15 13C5 PFHxA



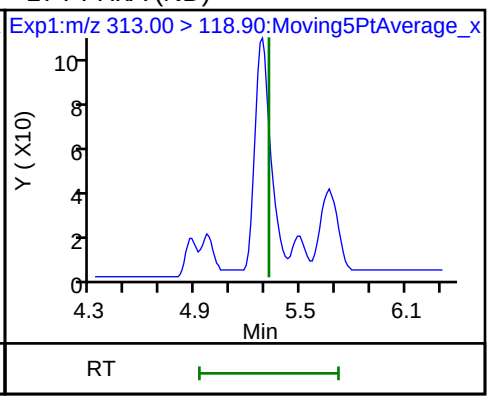
* 16 13C2 PFHxA



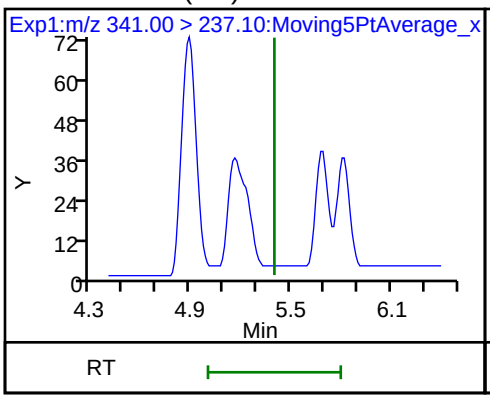
17 PFHxA (ND)



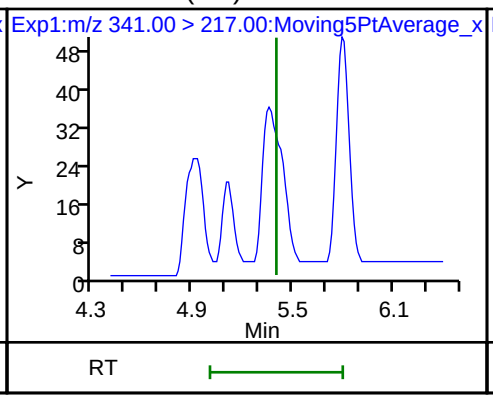
17 PFHxA (ND)



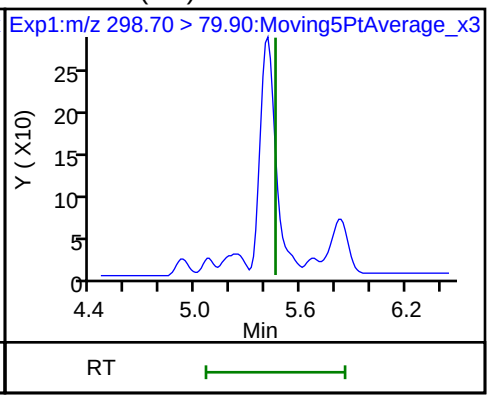
20 5:3 FTCA (ND)



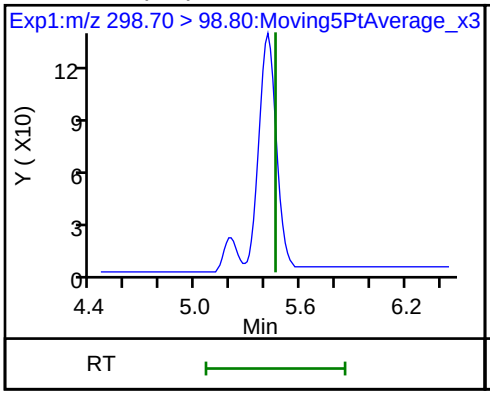
20 5:3 FTCA (ND)



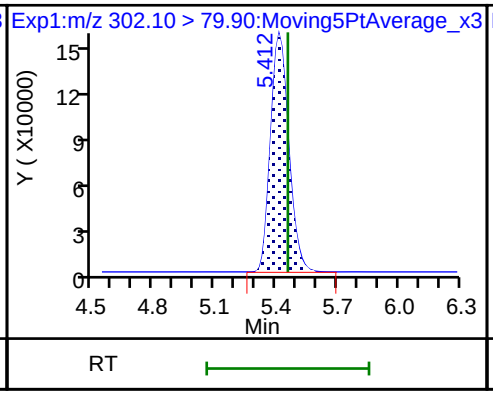
19 PFBS (ND)



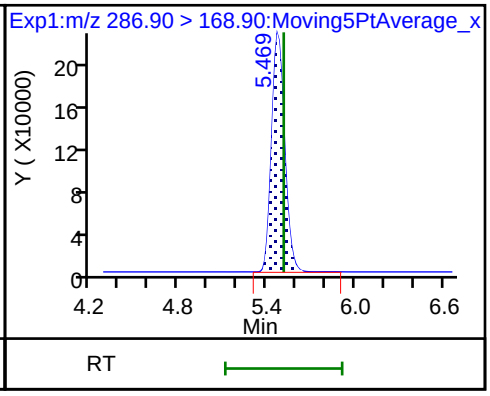
19 PFBS (ND)



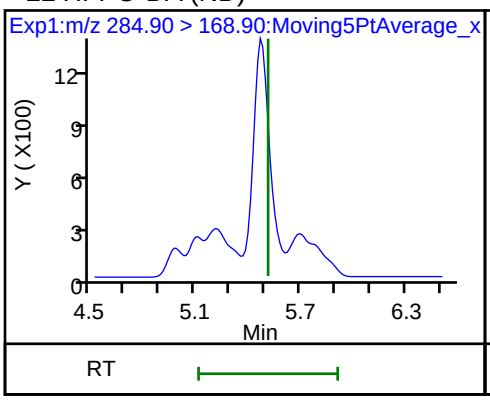
D 18 13C3 PFBS



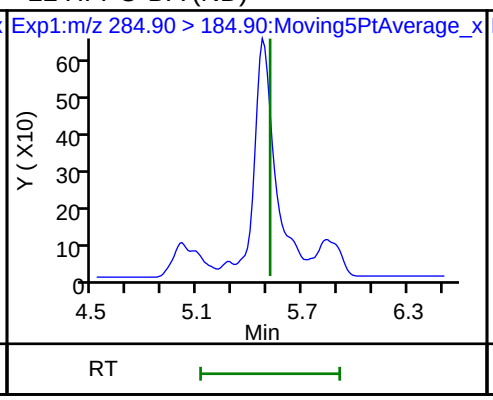
D 21 13C3 HFPO-DA



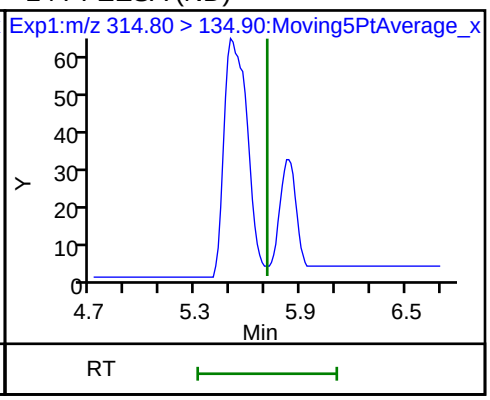
22 HFPO-DA (ND)



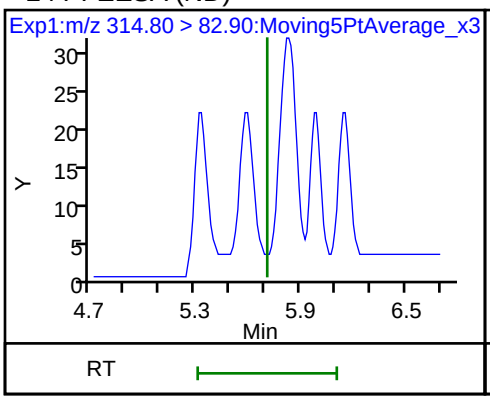
22 HFPO-DA (ND)



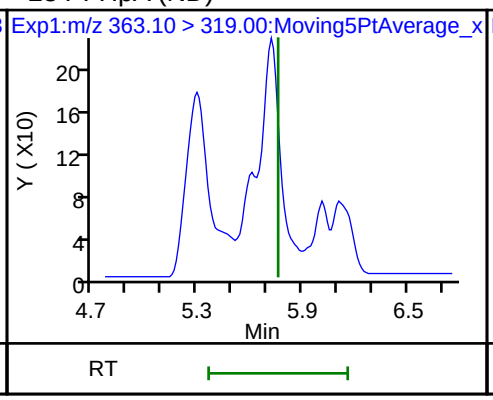
24 PFEESA (ND)



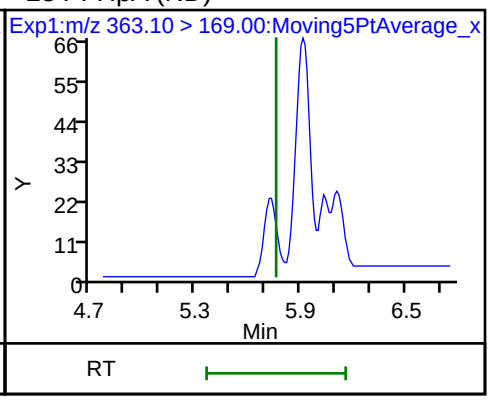
24 PFEESA (ND)



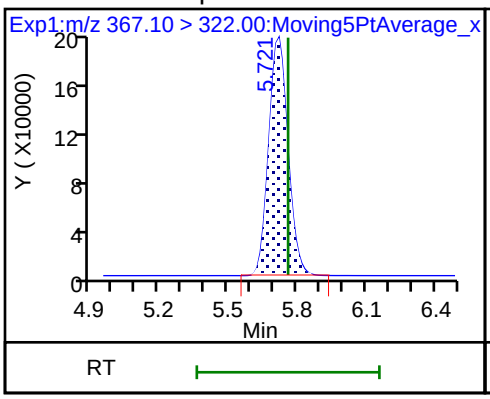
28 PFHpA (ND)



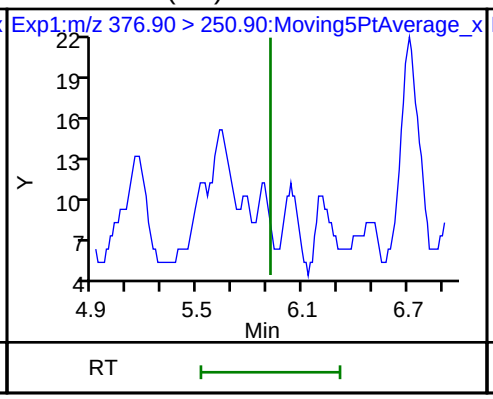
28 PFHpA (ND)



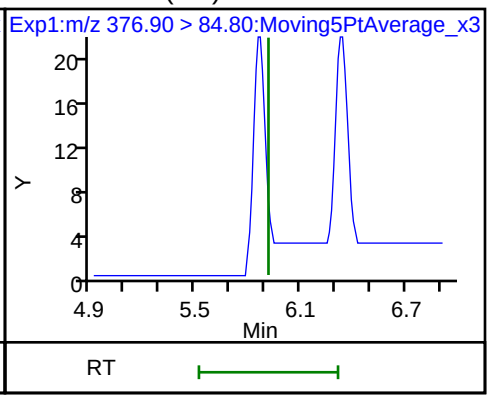
D 26 13C4 PFHpA



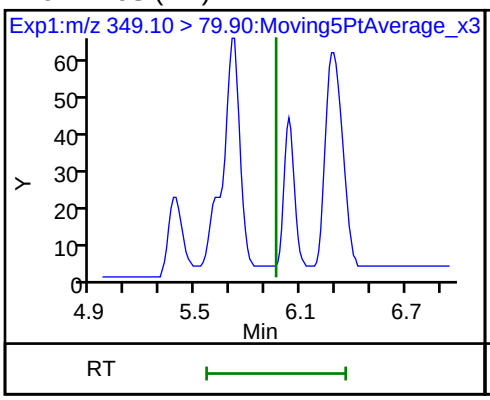
30 ADONA (ND)



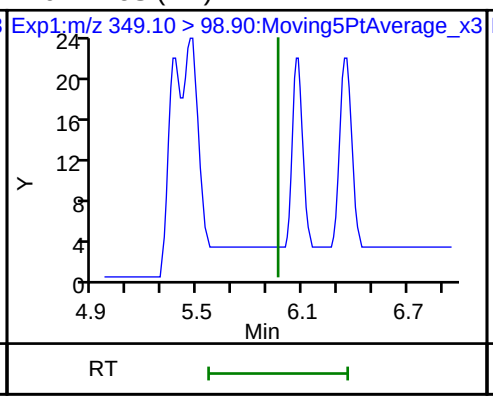
30 ADONA (ND)



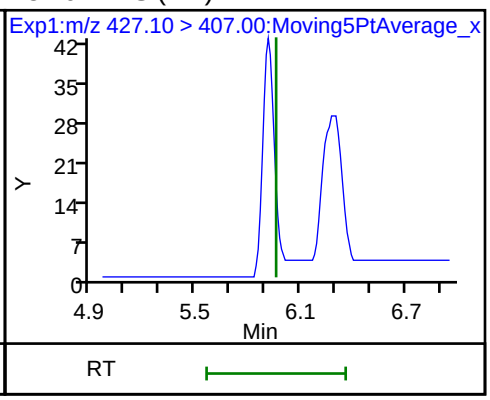
29 PFPeS (ND)



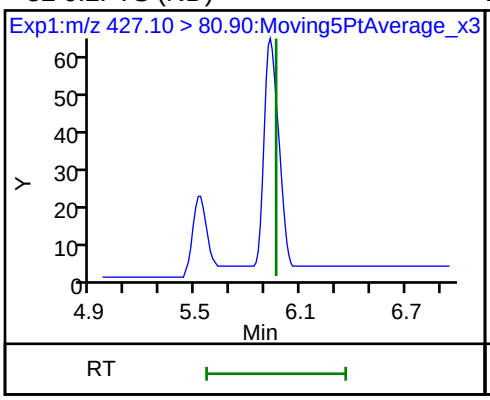
29 PFPeS (ND)



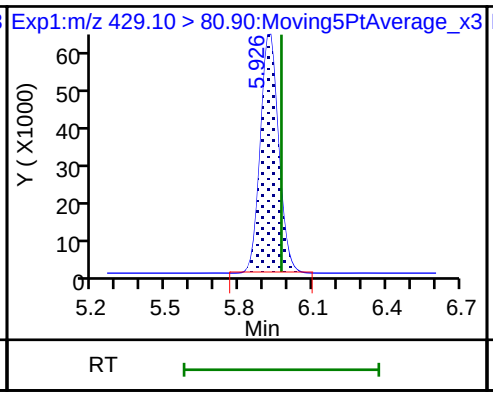
32 6:2FTS (ND)



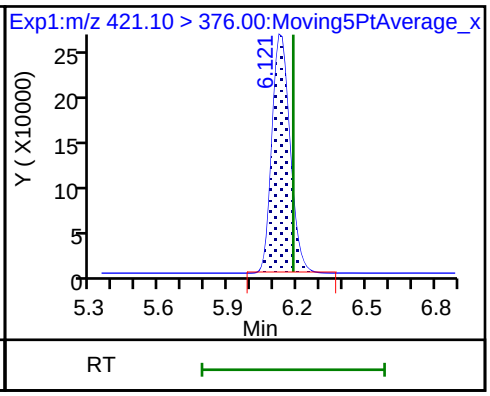
32 6:2FTS (ND)



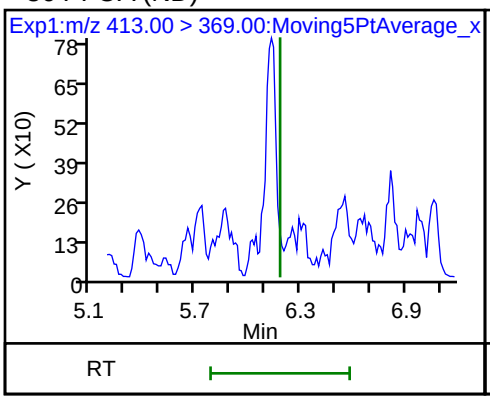
D 31 13C2-6:2FTS



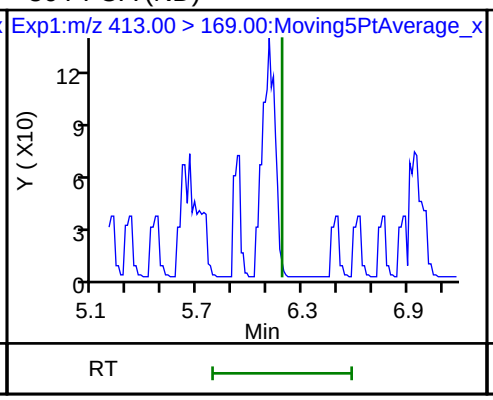
D 34 13C8 PFOA



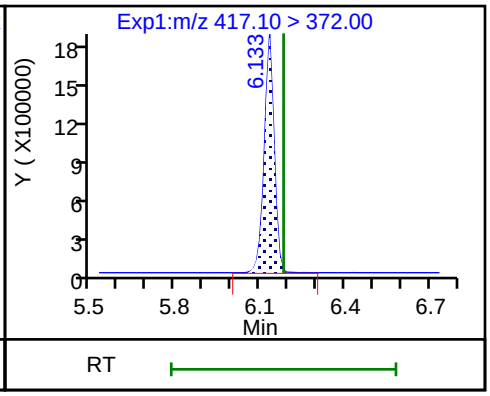
36 PFOA (ND)



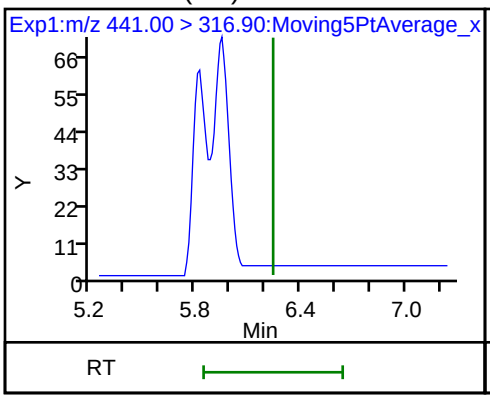
36 PFOA (ND)



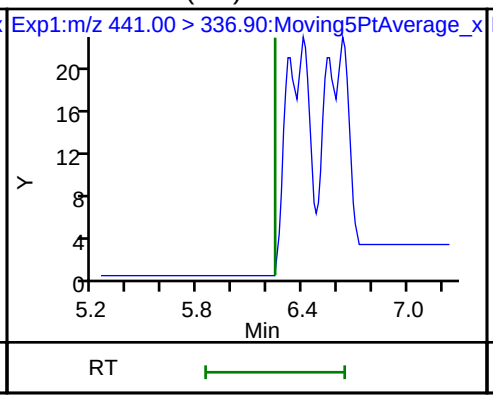
* 35 13C4 PFOA



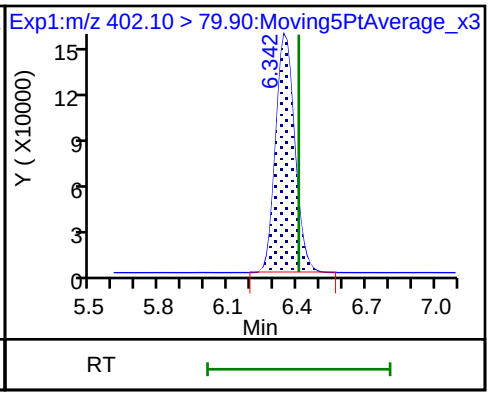
39 7:3 FTCA (ND)



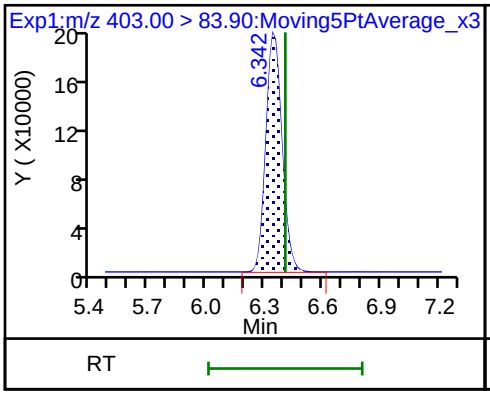
39 7:3 FTCA (ND)



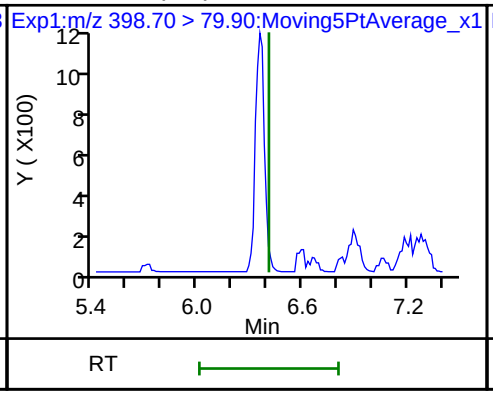
D 38 13C3 PFHxS



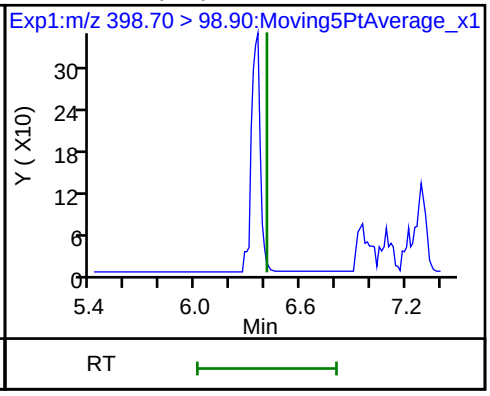
* 37 18O2 PFHxS



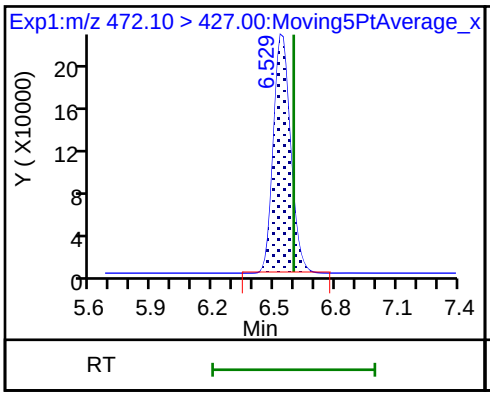
40 PFHxS (ND)



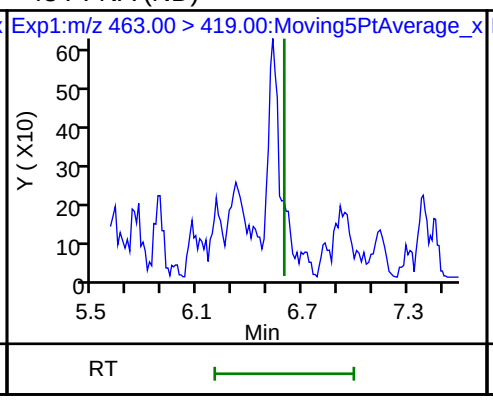
40 PFHxS (ND)



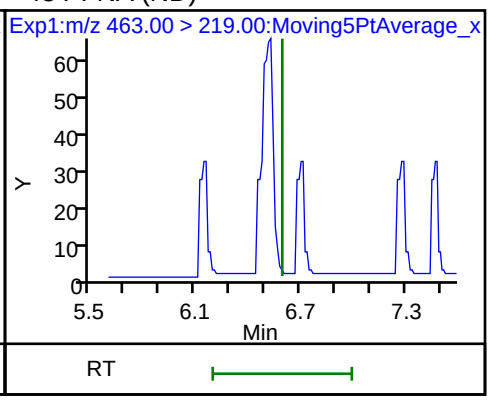
D 41 13C9 PFNA



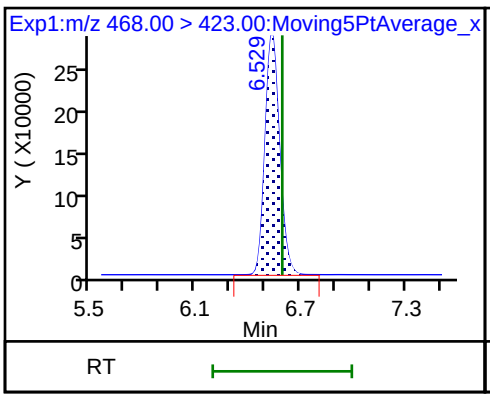
43 PFNA (ND)



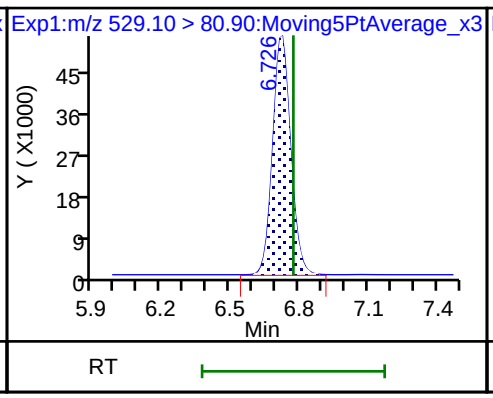
43 PFNA (ND)



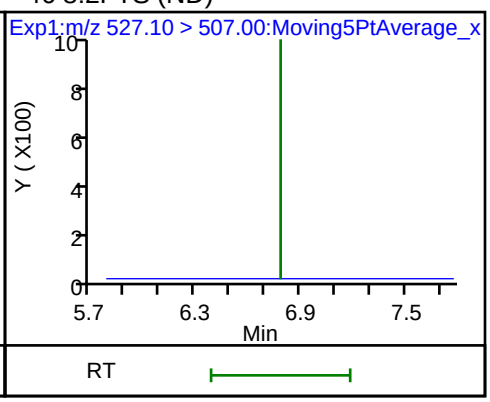
* 42 13C5 PFNA



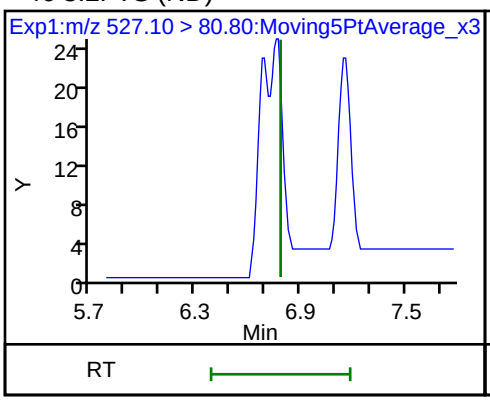
D 45 13C2-8:2FTS



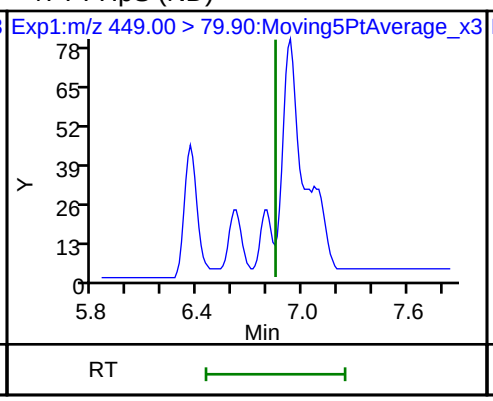
46 8:2FTS (ND)



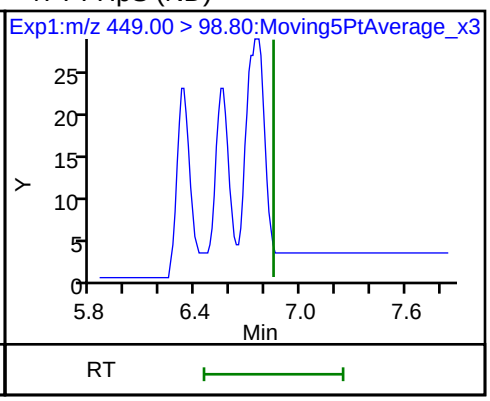
46 8:2FTS (ND)



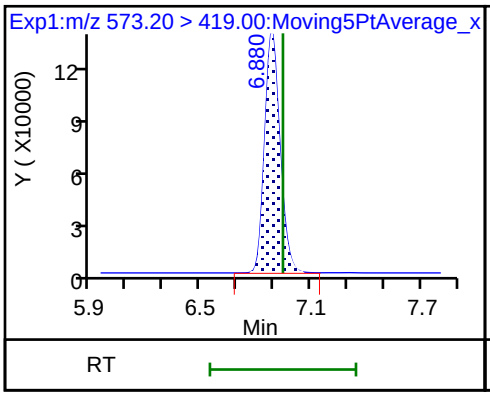
47 PFHpS (ND)



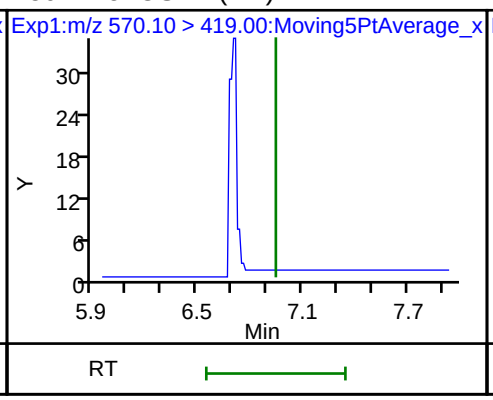
47 PFHpS (ND)



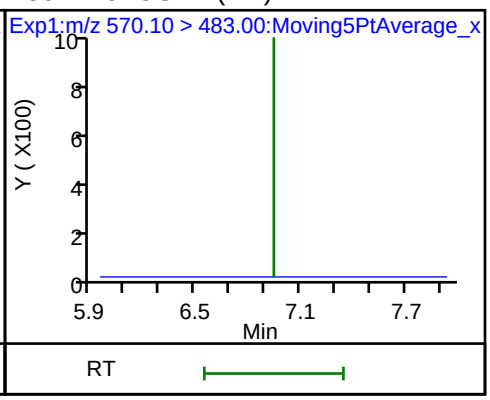
D 49 d3-NMeFOSAA



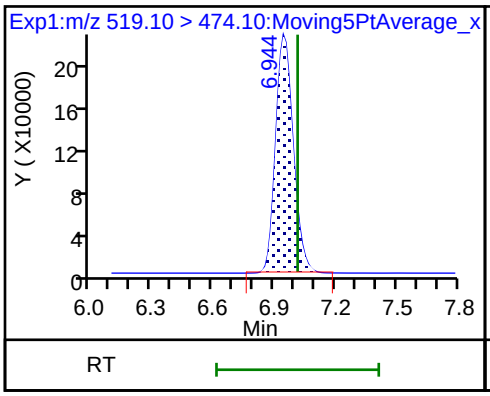
50 NMeFOSAA (ND)



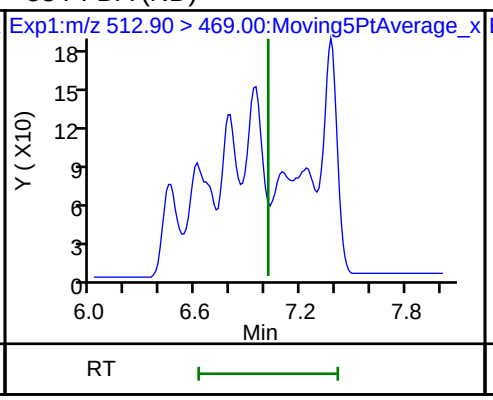
50 NMeFOSAA (ND)



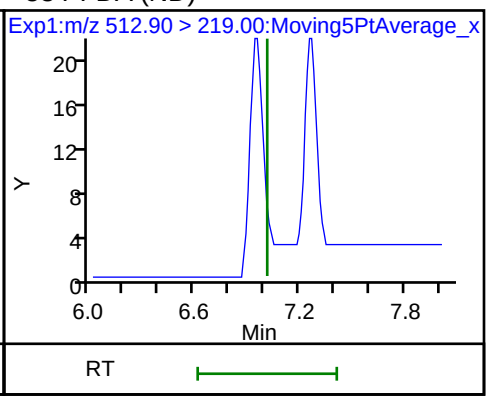
D 51 13C6 PFDA



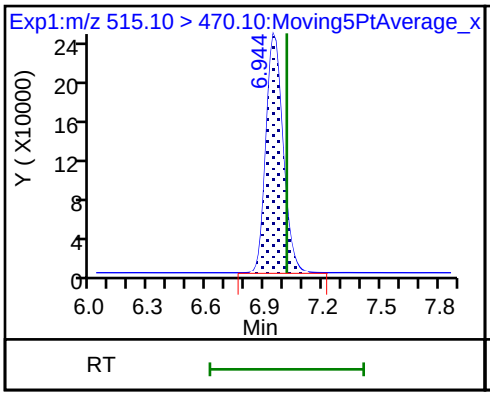
53 PFDA (ND)



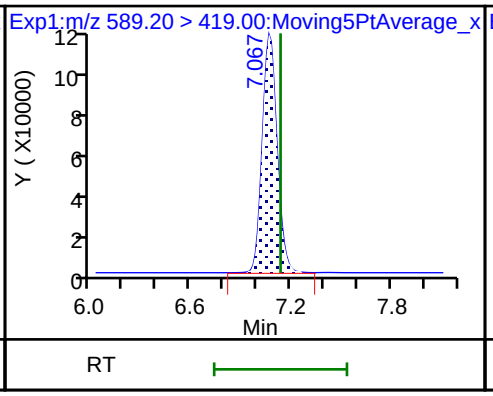
53 PFDA (ND)



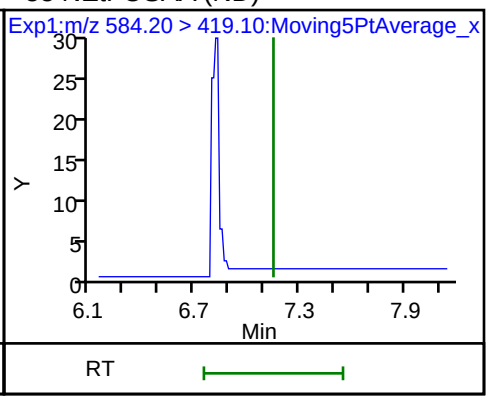
* 52 13C2 PFDA



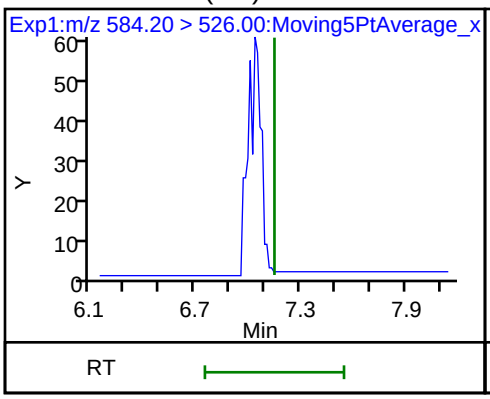
D 54 d5-NEtFOSAA



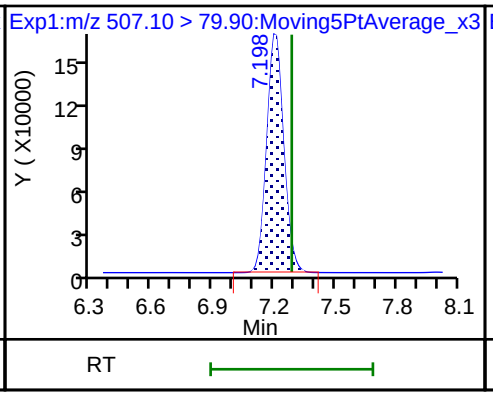
55 NEtFOSAA (ND)



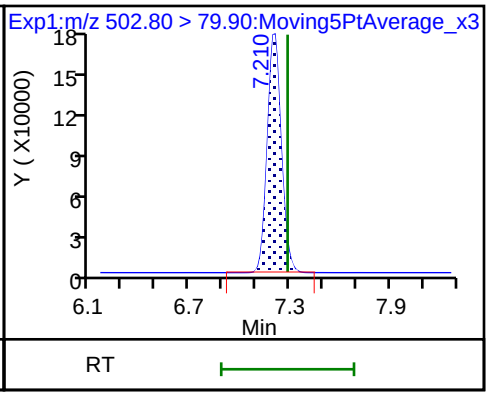
55 NEtFOSAA (ND)



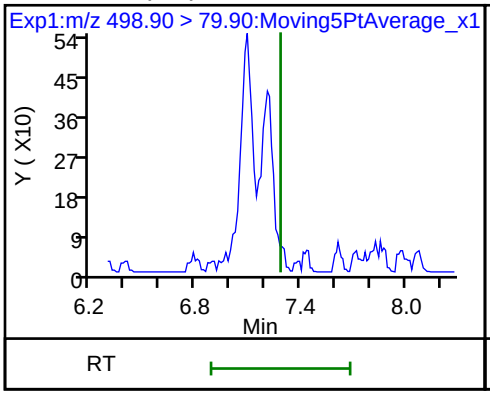
D 56 13C8 PFOS



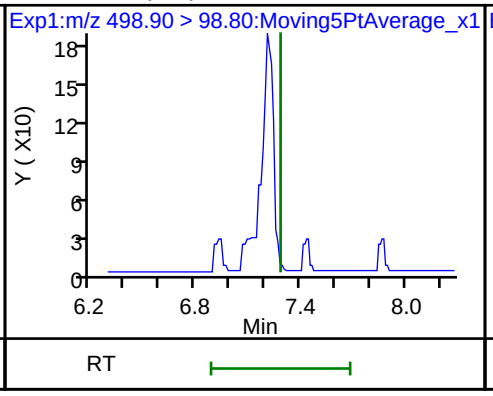
* 57 13C4 PFOS



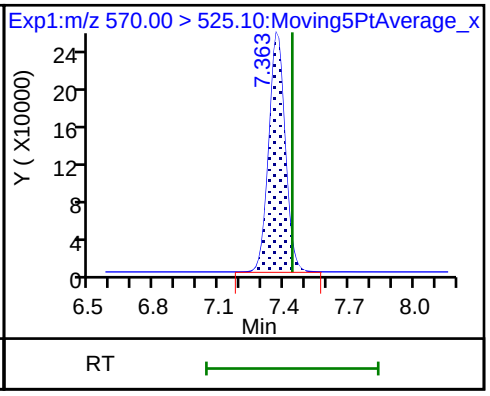
58 PFOS (ND)



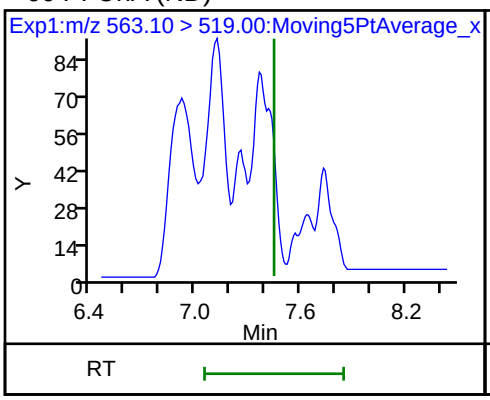
58 PFOS (ND)



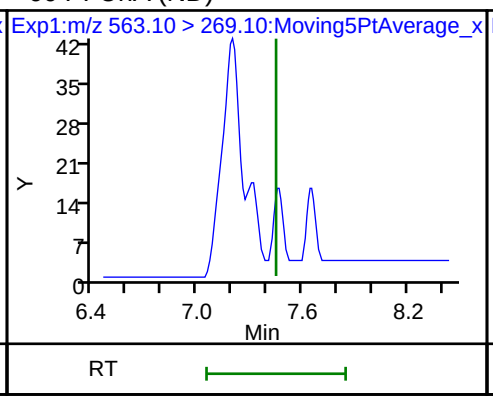
D 59 13C7 PFUnA



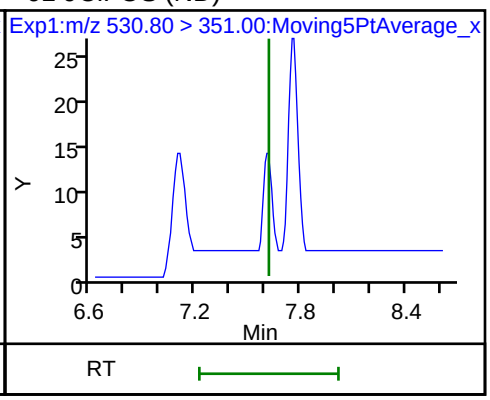
60 PFUnA (ND)



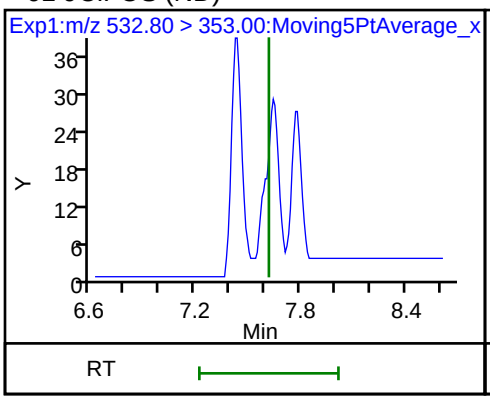
60 PFUnA (ND)



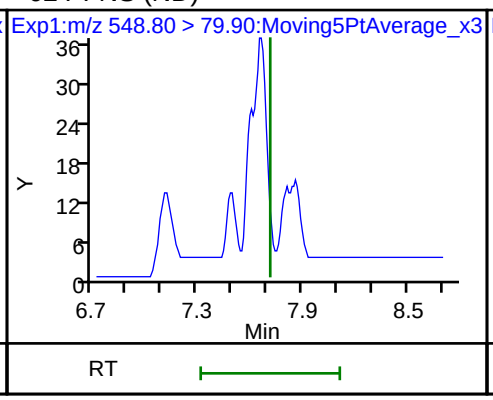
61 9ClFOS (ND)



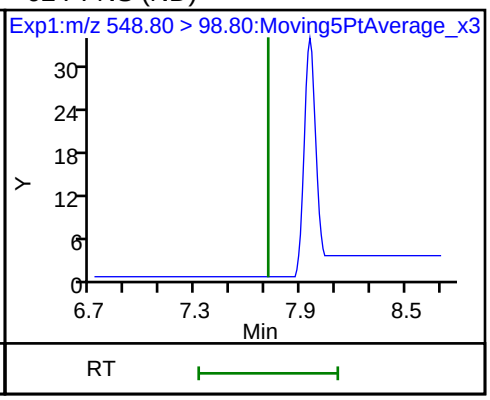
61 9ClFOS (ND)



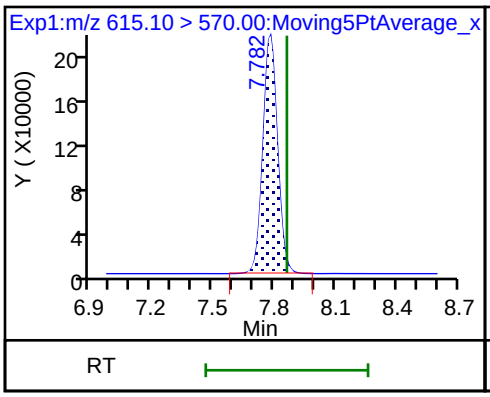
62 PFNS (ND)



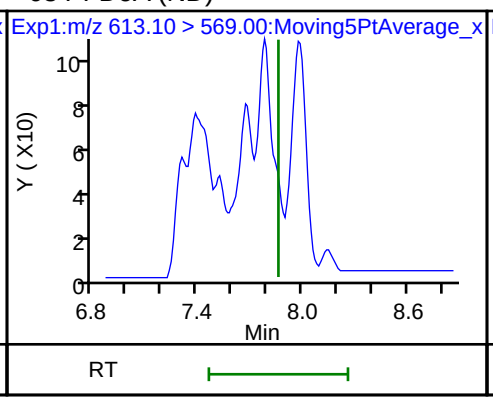
62 PFNS (ND)



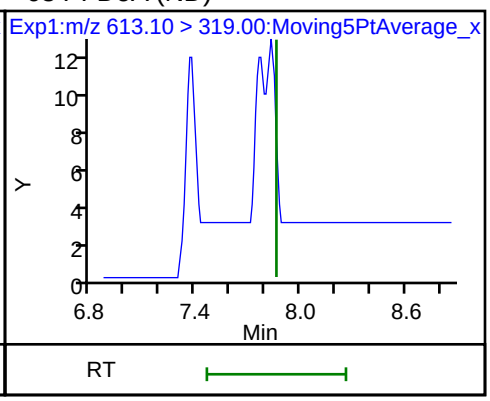
D 82 PFDoA



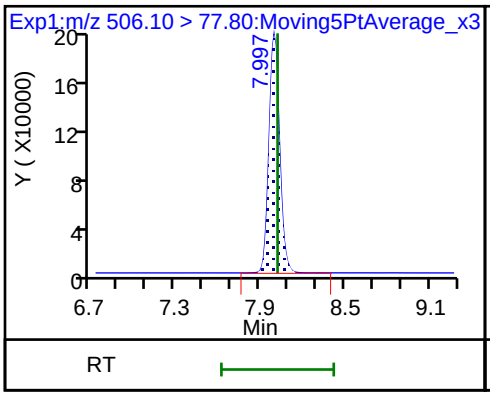
63 PFDoA (ND)



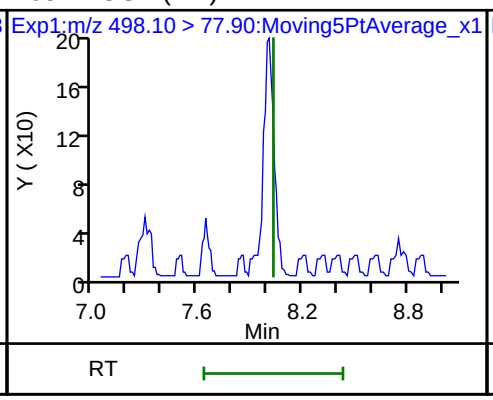
63 PFDoA (ND)



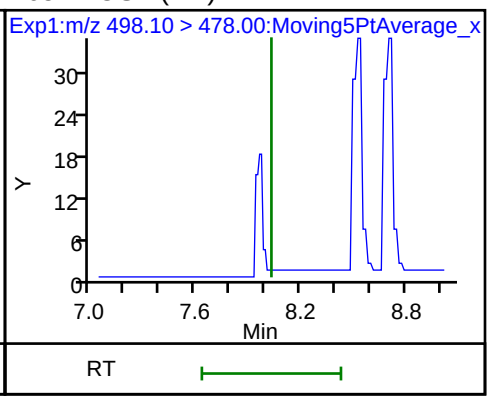
D 64 13C8 FOSA



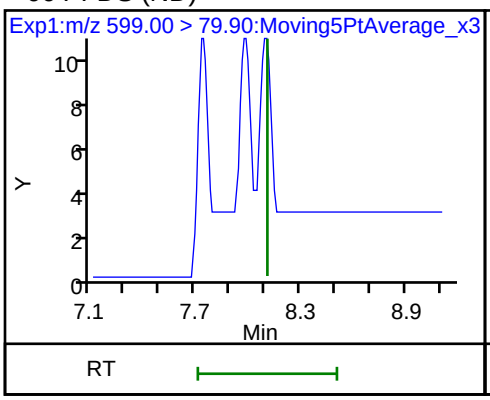
65 PFOSA (ND)



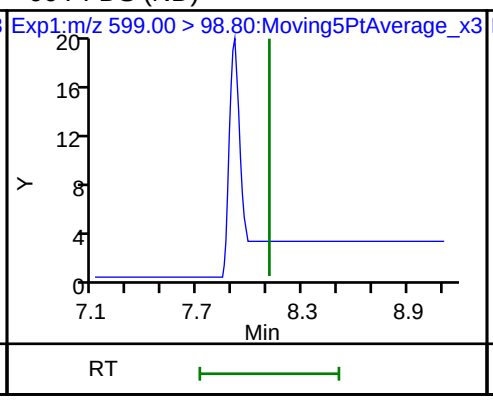
65 PFOSA (ND)



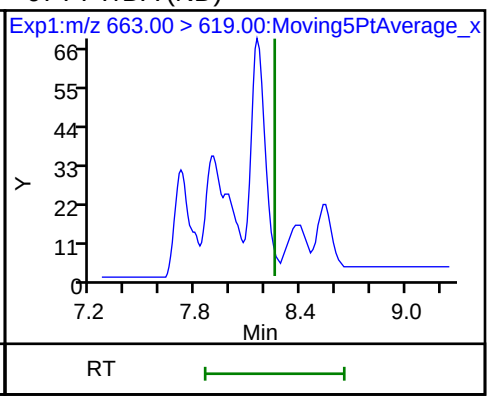
66 PFDS (ND)



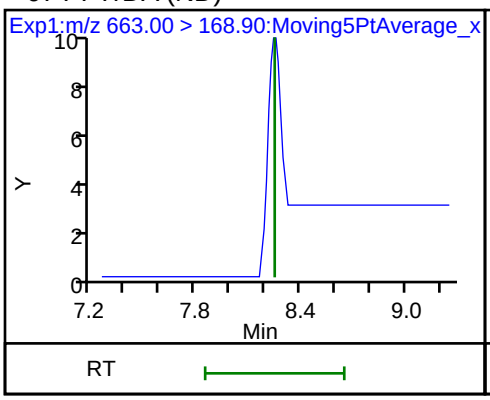
66 PFDS (ND)



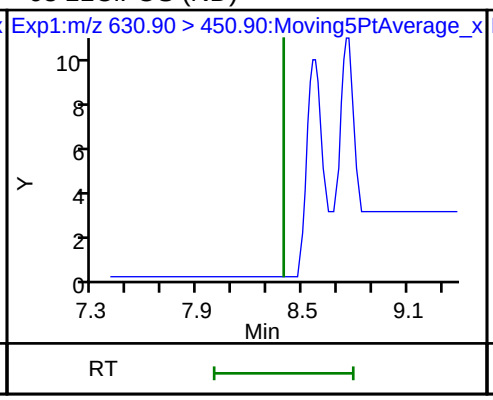
67 PFTrDA (ND)



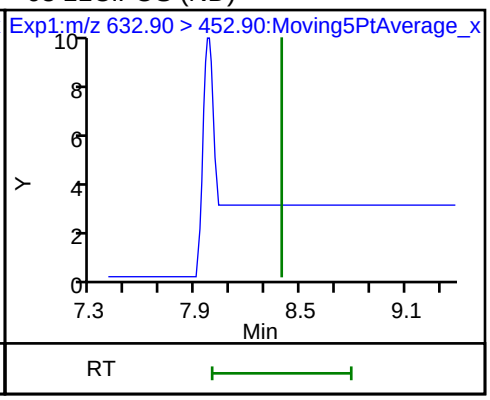
67 PFTrDA (ND)



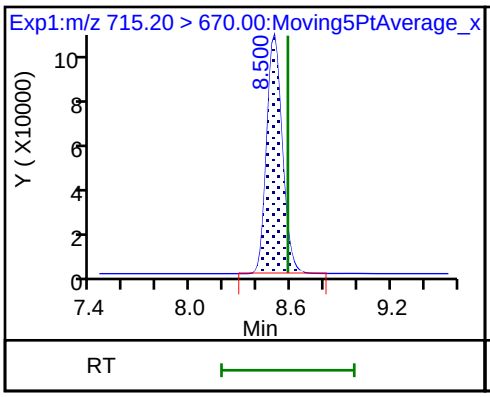
68 11ClFOS (ND)



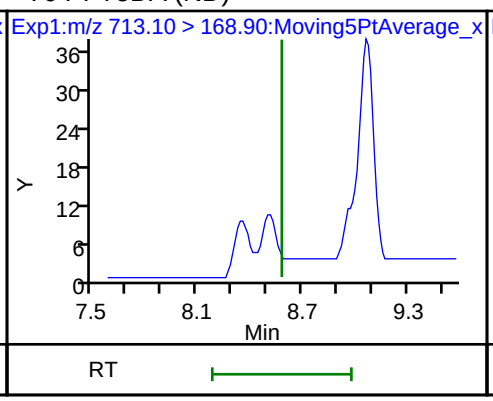
68 11ClFOS (ND)



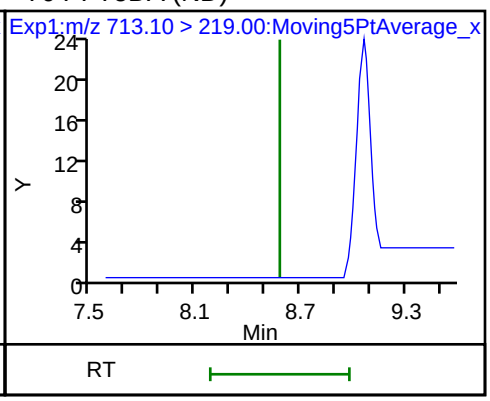
D 69 13C2 PFTeDA



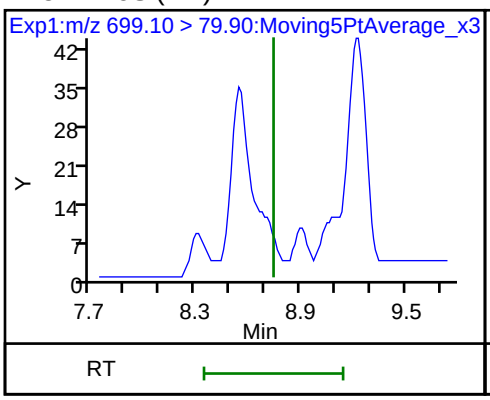
70 PFTeDA (ND)



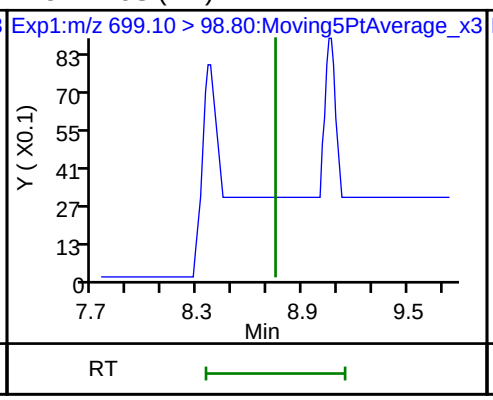
70 PFTeDA (ND)



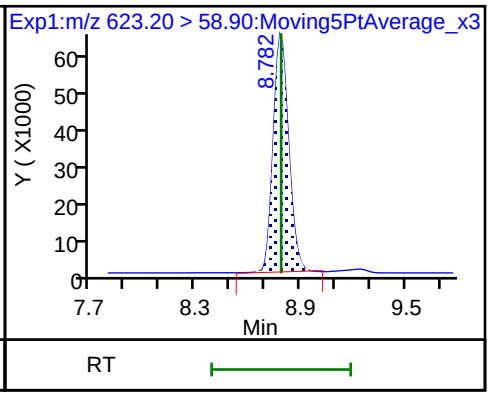
73 PFDoS (ND)



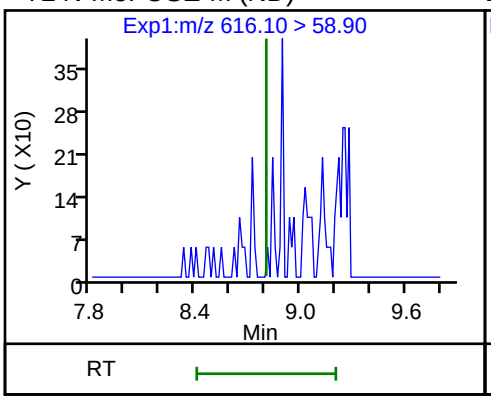
73 PFDoS (ND)



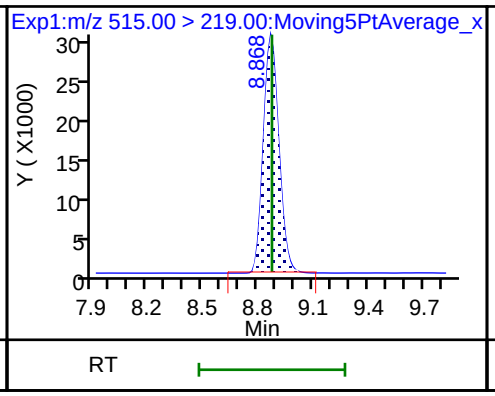
D 71 d7-N-Me-FOSE



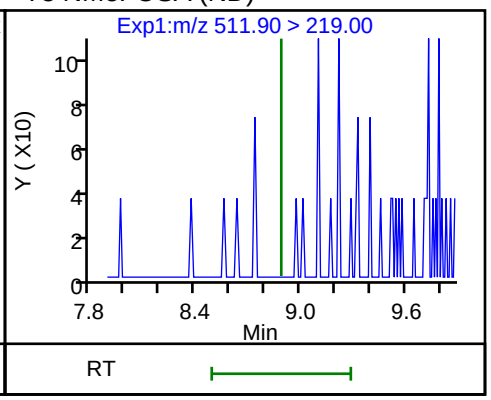
72 N-MeFOSE-M (ND)



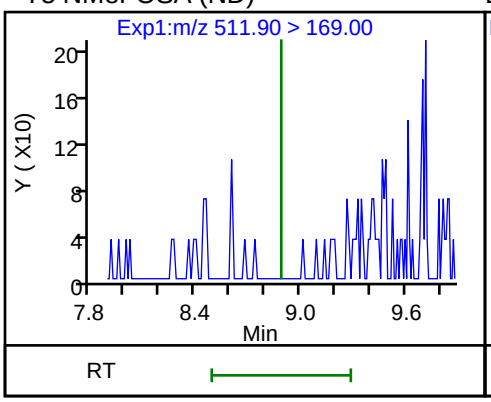
D 74 d3-NMePFOSA



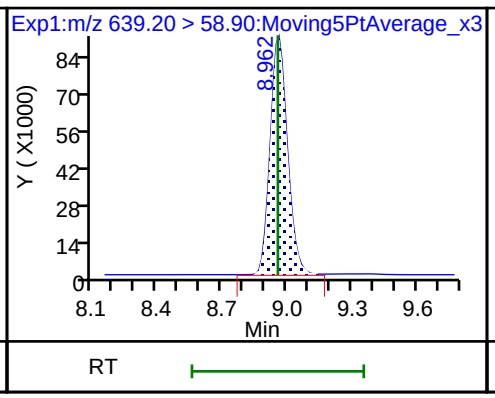
75 NMeFOSA (ND)



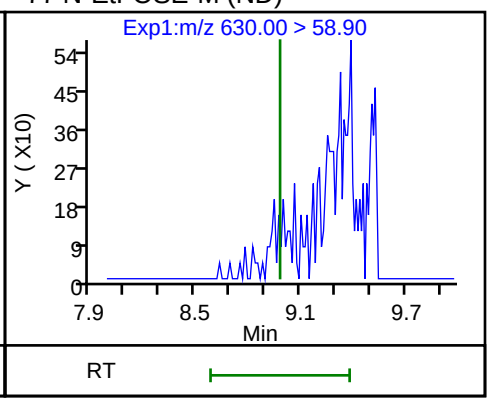
75 NMeFOSA (ND)



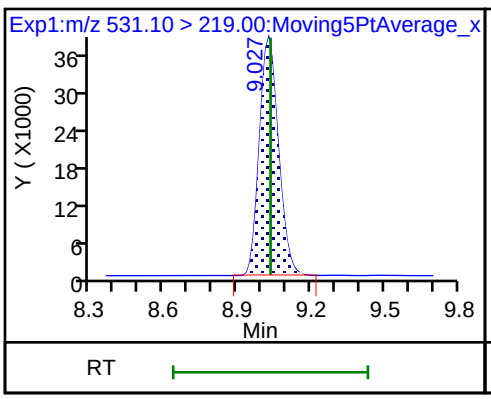
D 76 d9-N-EtFOSE



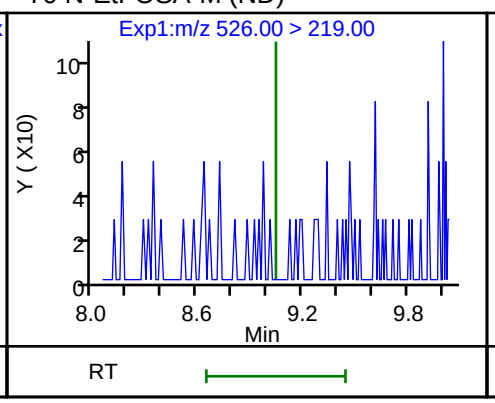
77 N-EtFOSE-M (ND)



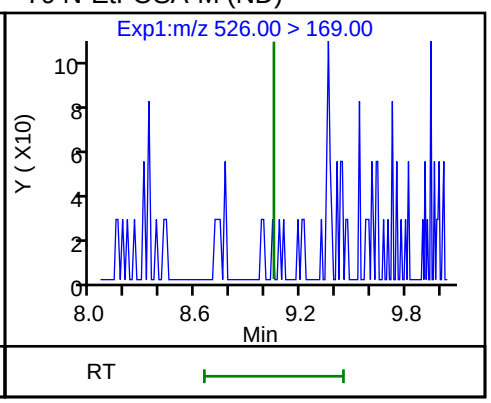
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225
Lab Sample ID: 410-207884-3

Matrix: Water
Lab File ID: 25FEB17W-11.d

Analysis Method: 1633
Date Collected: 02/12/2025 11:45

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.4(mL)
Date Analyzed: 02/17/2025 18:15

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	6.1		3.5	0.97
2706-90-3	Perfluoropentanoic acid	12		1.8	0.53
307-24-4	Perfluorohexanoic acid	10		1.8	0.44
375-85-9	Perfluoroheptanoic acid	7.1		1.8	0.71
335-67-1	Perfluorooctanoic acid	15		1.8	0.80
375-95-1	Perfluorononanoic acid	8.1		1.8	0.44
335-76-2	Perfluorodecanoic acid	1.2	J	1.8	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	2.9		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	3.6		1.8	0.71
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	14		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.88
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.9	J	3.5	0.88
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.88
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
31506-32-8	NMeFOSA	ND		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44
2355-31-9	NMeFOSAA	ND		1.8	0.44
2991-50-6	NEtFOSAA	ND		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225
Lab Sample ID: 410-207884-3

Matrix: Water
Lab File ID: 25FEB17W-11.d

Analysis Method: 1633
Date Collected: 02/12/2025 11:45

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.4(mL)
Date Analyzed: 02/17/2025 18:15

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2
13252-13-6	HFPO-DA	ND		1.8	0.66
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44
113507-82-7	PFEESA	ND		1.8	0.44
356-02-5	3:3 FTCA	ND		3.5	0.88
914637-49-3	5:3 FTCA	ND		8.8	2.5
812-70-4	7:3 FTCA	ND		8.8	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225
Lab Sample ID: 410-207884-3

Matrix: Water
Lab File ID: 25FEB17W-11.d

Analysis Method: 1633
Date Collected: 02/12/2025 11:45

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.4(mL)
Date Analyzed: 02/17/2025 18:15

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	85.0		5-130
STL01893	13C5 PFPeA	99.4	cn	40-130
STL02577	13C5 PFHxA	104	cn	40-130
STL01892	13C4 PFHpA	103	cn	40-130
STL01052	13C8 PFOA	74.1		40-130
STL02578	13C9 PFNA	80.0		40-130
STL02579	13C6 PFDA	78.8		40-130
STL02580	13C7 PFUnA	87.9	cn	30-130
STL02116	13C2 PFTeDA	78.3	cn	10-130
STL02337	13C3 PFBS	86.8		40-135
STL02581	13C3 PFHxS	82.7		40-130
STL01054	13C8 PFOS	86.7		40-130
STL01056	13C8 FOSA	77.2		40-130
STL02118	d3-NMeFOSAA	85.8		40-170
STL02117	d5-NEtFOSAA	89.1		25-135
STL02395	M2-4:2 FTS	78.2		40-200
STL02279	M2-6:2 FTS	65.9		40-200
STL02280	M2-8:2 FTS	72.8		40-300
STL02255	13C3 HFPO-DA	106	cn	40-130
STL02277	d7-N-MeFOSE-M	82.6		10-130
STL02278	d9-N-EtFOSE-M	83.8		10-130
STL02704	d5-NEtPFOSA	56.9		10-130
STL02705	d3-NMePFOSA	56.2		10-130
STL00998	13C2 PFDoA	81.7		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-11.d
Lims ID: 410-207884-A-3-B
Client ID: MW-33D-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 18:15:02 ALS Bottle#: 16 Worklist Smp#: 84
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-3-B
Misc. Info.: Plate: 2 Rack: 1 410-0138392-084
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:58:43 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 18:58:43
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										M
163.00 > 119.00	1.957	2.102	-0.145	0.996	188940	0.5323			429	M
D 1 13C3PFPrA										
166.00 > 121.00	1.965	2.118	-0.153	0.470	732574	1.51		75.7	15392	
5 PFBA										
212.80 > 168.90	4.173	4.216	-0.043	0.998	105202	0.1736			1149	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.224	-0.043	1.000	1374396	1.70		85.0	71182	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.224	-0.043		1513770	2.00			24081	
D 8 13C5 PFPeA										
268.30 > 223.00	4.832	4.866	-0.034	0.915	713093	1.99		99.4	47165	
9 PFPA										
263.00 > 219.00	4.832	4.866	-0.034	1.000	177831	0.3322			3477	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.102	5.139	-0.037	0.806	330697	3.67		78.2	10198	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.318	-0.035	1.000	1079936	2.08		104	63929	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.318	-0.035		2939842	5.00			174476	
17 PFHxA										
313.00 > 269.00	5.283	5.318	-0.035	1.000	147949	0.2943	Target=10.68		3522	
313.00 > 118.90	5.283	5.318	-0.035	1.000	11219		13.19(5.34-16.02)		646	
19 PFBS										
298.70 > 79.90	5.414	5.456	-0.042	1.003	43193	0.0806	Target=2.96		1692	
298.70 > 98.80	5.414	5.456	-0.042	1.003	13749		3.14(1.48-4.44)		761	
D 18 13C3 PFBS										
302.10 > 79.90	5.400	5.456	-0.056	0.853	1014857	1.62		86.8	54122	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.471	5.514	-0.043	1.035	1368312	2.13		106	73809	
28 PFHpA										M
363.10 > 319.00	5.709	5.760	-0.051	1.000	104332	0.2017	Target=2.56		1438	M
363.10 > 169.00	5.709	5.760	-0.051	1.000	39292		2.66(1.28-3.85)		1053	M
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.760	-0.051	1.081	1084984	2.06		103	61513	
32 6:2FTS										
427.10 > 407.00	5.916	5.960	-0.044	1.000	8131	0.0814	Target=1.57		514	
427.10 > 80.90	5.916	5.960	-0.044	1.000	3756		2.16(0.78-2.35)		240	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.916	5.971	-0.055	0.934	296415	3.14		65.9	19142	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.183	-0.073	0.998	1464754	1.48		74.1	91092	
36 PFOA										
413.00 > 369.00	6.122	6.183	-0.061	1.002	260654	0.4344	Target=2.35		11236	
413.00 > 169.00	6.122	6.183	-0.061	1.002	118212		2.20(1.18-3.53)		22861	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.183	-0.061		4629901	5.00			618132	
D 38 13C3 PFHxS										
402.10 > 79.90	6.331	6.407	-0.076	1.000	919925	1.57		82.7	53325	
* 37 18O2 PFHxS										
403.00 > 83.90	6.331	6.407	-0.076		1082103	1.89			62548	
40 PFHxS										
398.70 > 79.90	6.345	6.407	-0.062	1.002	41083	0.1025	Target=3.23		4196	
398.70 > 98.90	6.345	6.407	-0.062	1.002	11128		3.69(1.62-4.85)		2363	
D 41 13C9 PFNA										
472.10 > 427.00	6.519	6.595	-0.076	1.000	1287707	1.60		80.0	74941	
43 PFNA										
463.00 > 419.00	6.532	6.595	-0.063	1.002	120735	0.2281	Target=2.70		15651	
463.00 > 219.00	6.420	6.595	-0.175	0.985	38922		3.10(1.35-4.05)		5309	
* 42 13C5 PFNA										
468.00 > 423.00	6.519	6.595	-0.076		1571001	2.00			67699	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.706	6.774	-0.068	1.059	284717	3.49		72.8	17576	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.870	6.947	-0.077	0.956	780927	4.29		85.8	45121	
D 51 13C6 PFDA										
519.10 > 474.10	6.934	7.014	-0.080	1.000	1251599	1.58		78.8	52219	
53 PFDA										M
512.90 > 469.00	6.934	7.014	-0.080	1.000	18926	0.0351	Target=5.26		597	M
512.90 > 219.00	6.947	7.014	-0.067	1.002	3855		4.91(2.63-7.89)		224	
* 52 13C2 PFDA										
515.10 > 470.10	6.934	7.014	-0.080		1506564	2.00			62806	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.137	-0.080	0.982	665296	4.45		89.1	35912	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C8 PFOS										
507.10 > 79.90	7.189	7.285	-0.096	1.000	887067	1.66		86.7	38422	
* 57 13C4 PFOS										
502.80 > 79.90	7.189	7.285	-0.096		999083	1.91			57594	
58 PFOS										
498.90 > 79.90	7.201	7.285	-0.084	1.002	234213	0.3969	Target=4.45		17258	
498.90 > 98.80	7.201	7.285	-0.084	1.002	44940		5.21(2.23-6.68)		8372	
D 59 13C7 PFUnA										
570.00 > 525.10	7.356	7.438	-0.082	1.061	1303932	1.76		87.9	83106	
D 82 PFDoA										
615.10 > 570.00	7.764	7.862	-0.098	1.120	1019523	1.63		81.7	68169	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	8.022	-0.031	1.111	984378	1.54		77.2	46994	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.493	8.581	-0.089	1.225	690613	1.57		78.3	35981	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.789	8.789	0.0	1.222	409249	4.13		82.6	7277	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.862	8.876	-0.014	1.233	188146	1.12		56.2	10492	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.246	540675	4.19		83.8	16170	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.255	214621	1.14		56.9	12855	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 18:59:32 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-11.d

Injection Date: 17-Feb-2025 18:15:02 Instrument ID: 30576

Lims ID: 410-207884-A-3-B Lab Sample ID: 410-207884-3

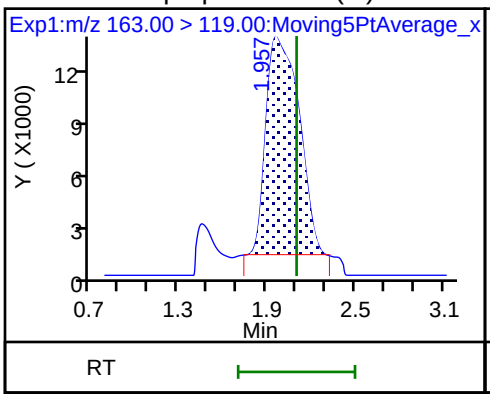
Client ID: MW-33D-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 16 Worklist Smp#: 84

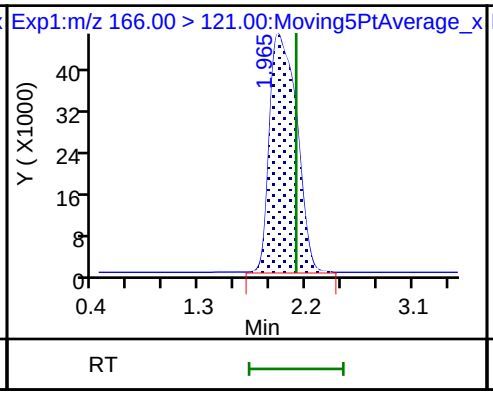
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

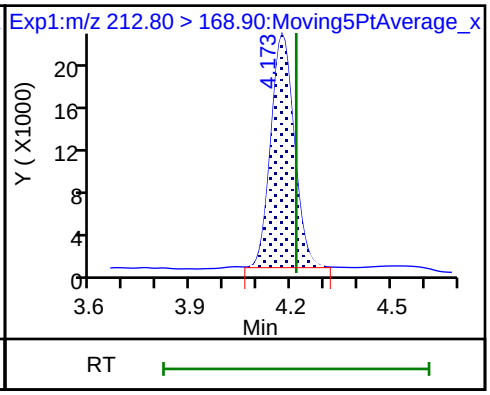
2 Perfluoropropionic acid (M)



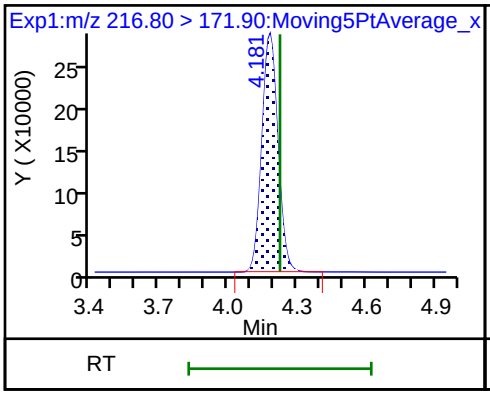
D 1 13C3PFPrA



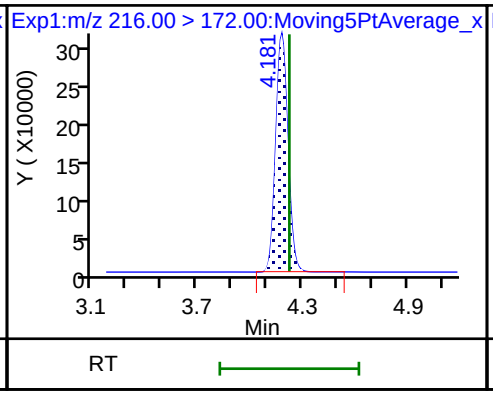
5 PFBA



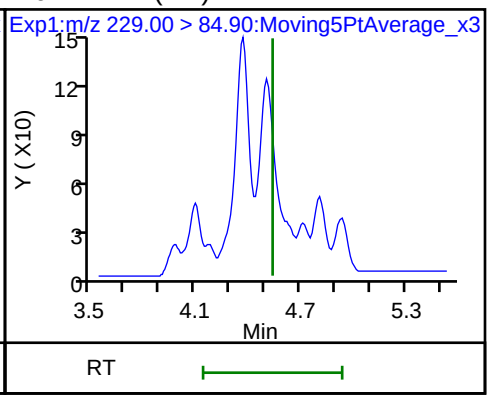
D 3 13C4-PFBA



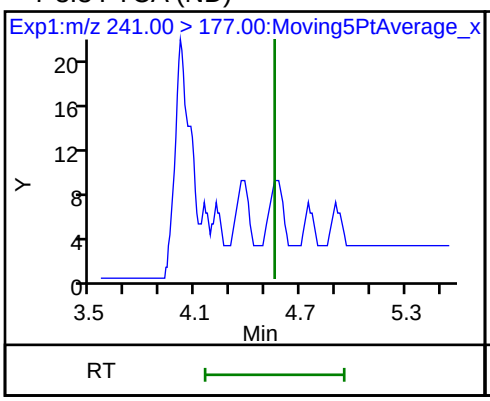
* 4 13C3PFBA



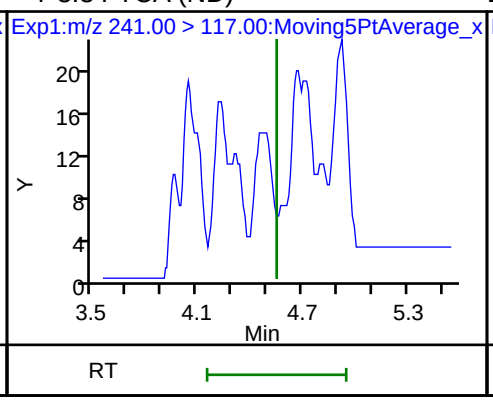
6 PFMPA (ND)



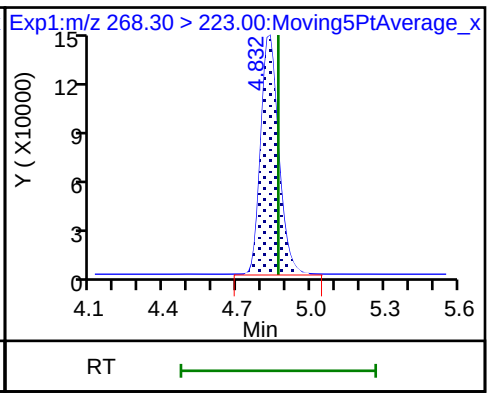
7 3:3 FTCA (ND)



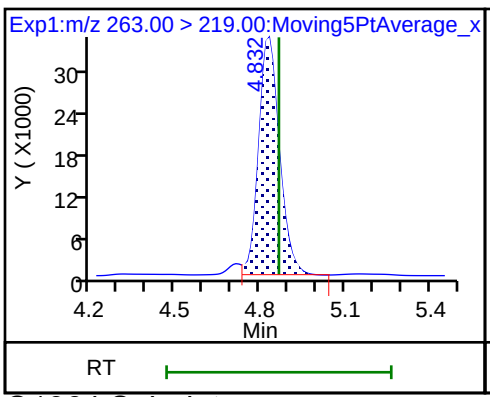
7 3:3 FTCA (ND)



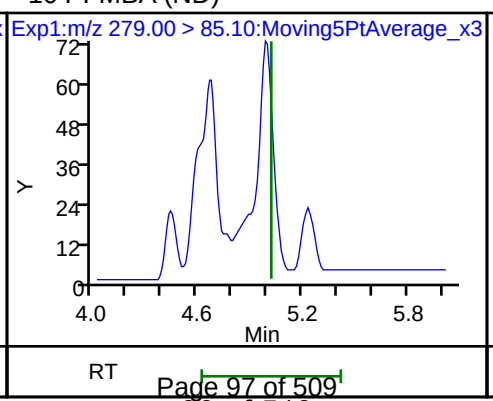
D 8 13C5 PFPeA



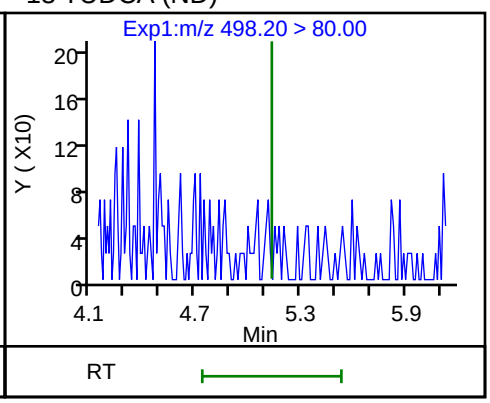
9 PFPA



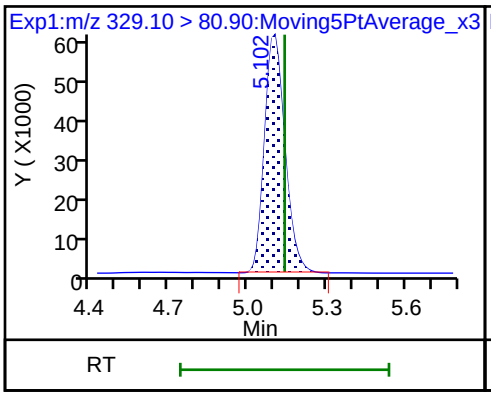
10 PFMBA (ND)



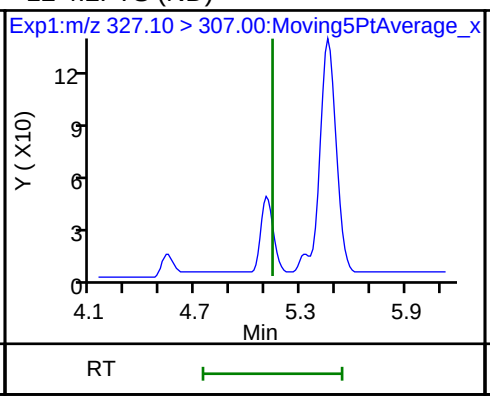
13 TUDCA (ND)



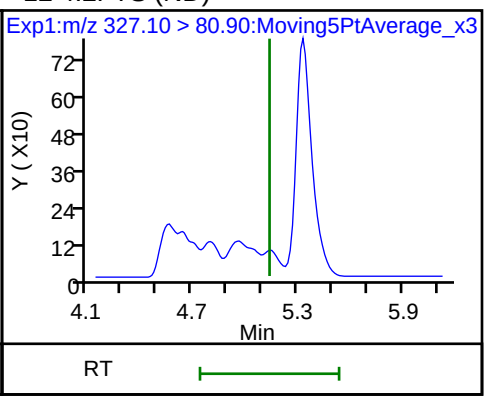
D 11 13C2-4:2FTS



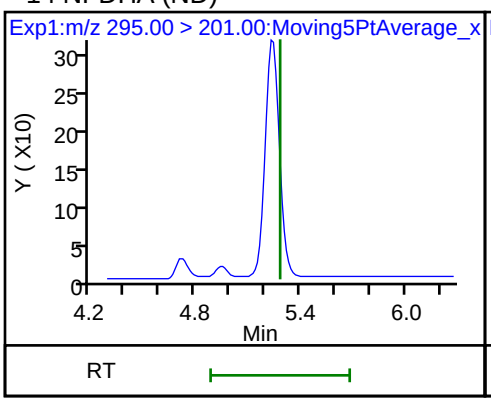
12 4:2FTS (ND)



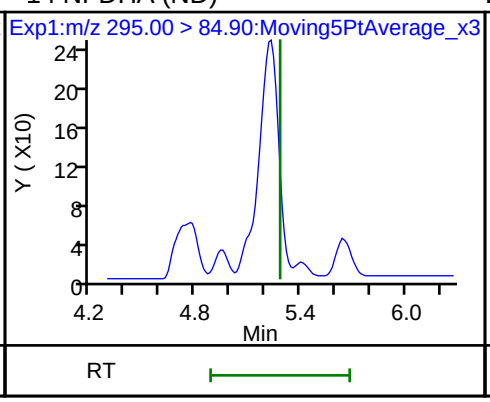
12 4:2FTS (ND)



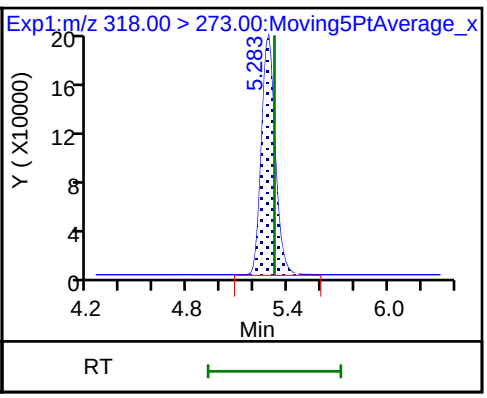
14 NFDHA (ND)



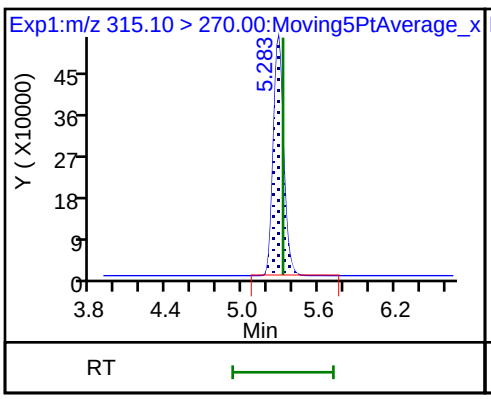
14 NFDHA (ND)



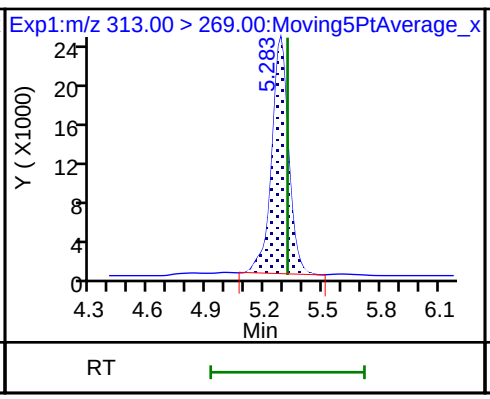
D 15 13C5 PFHxA



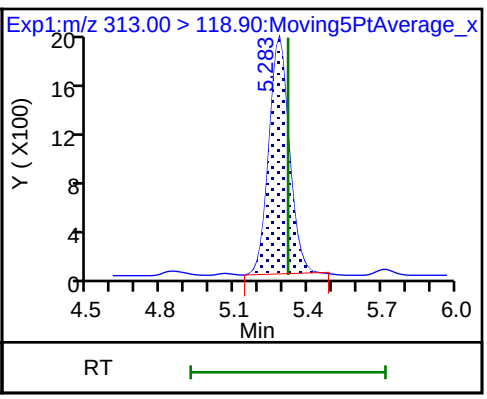
* 16 13C2 PFHxA



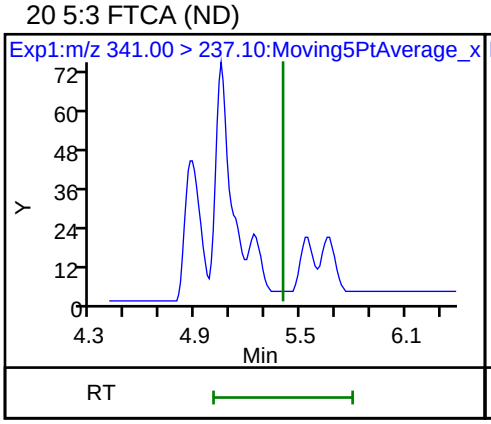
17 PFHxA



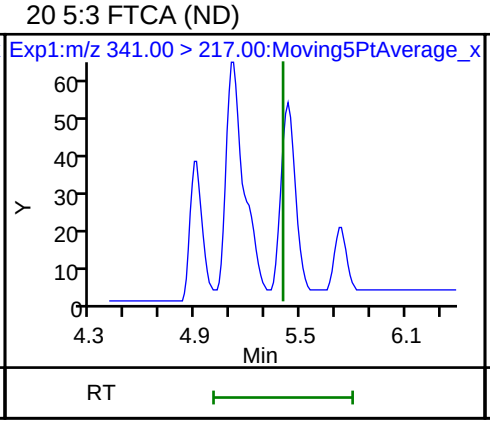
17 PFHxA



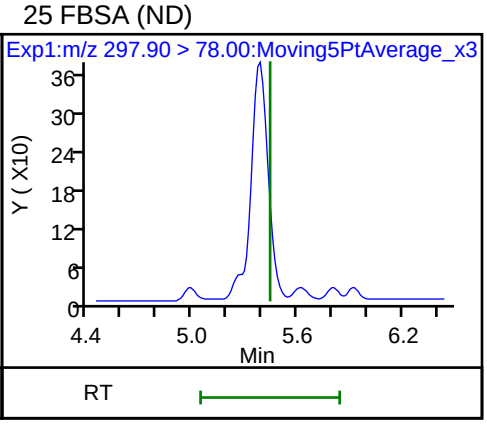
20 5:3 FTCA (ND)



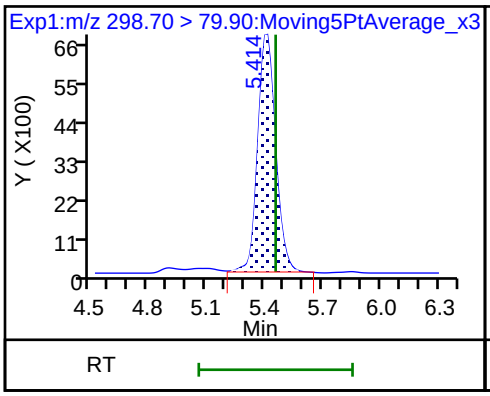
20 5:3 FTCA (ND)



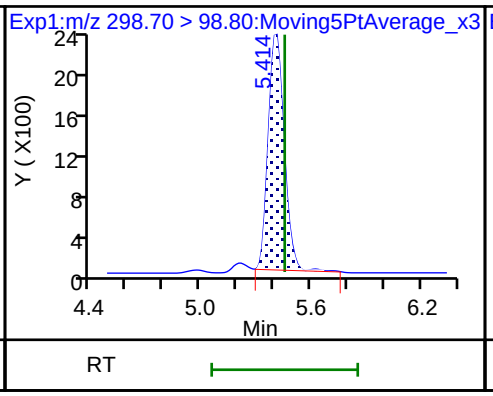
25 FBSA (ND)



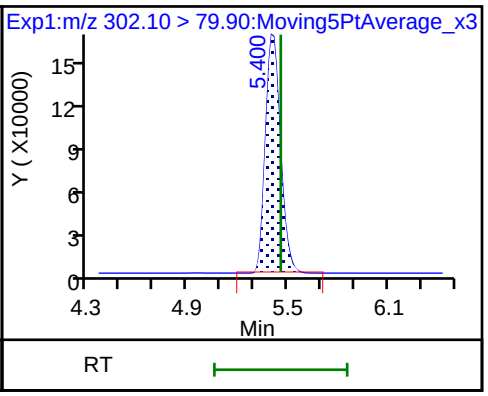
19 PFBS



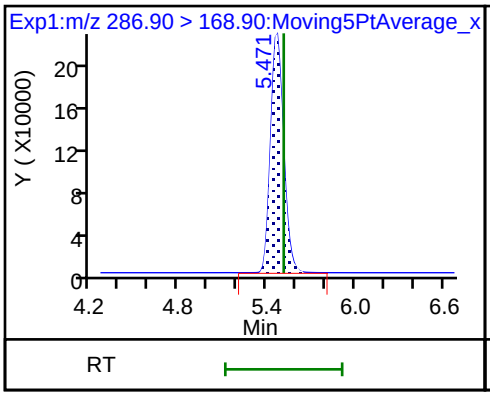
19 PFBS



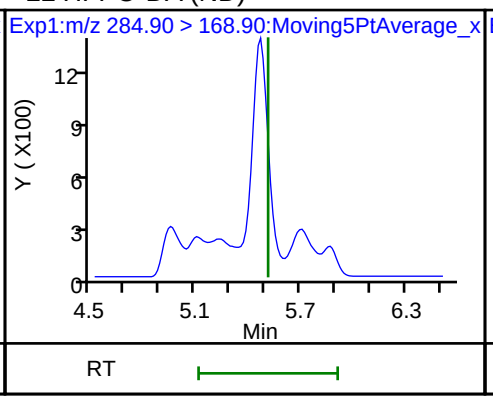
D 18 13C3 PFBS



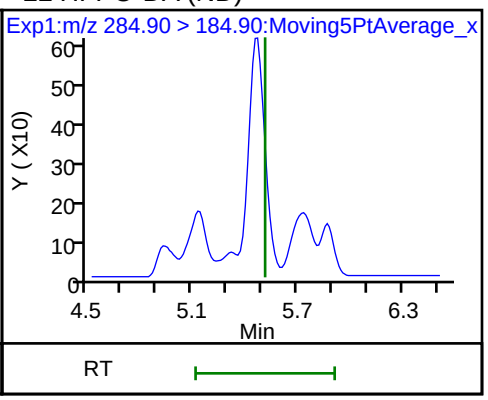
D 21 13C3 HFPO-DA



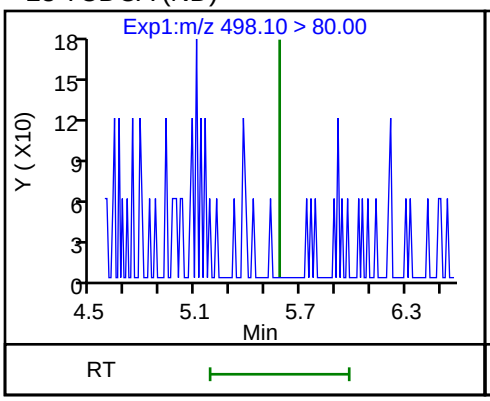
22 HFPO-DA (ND)



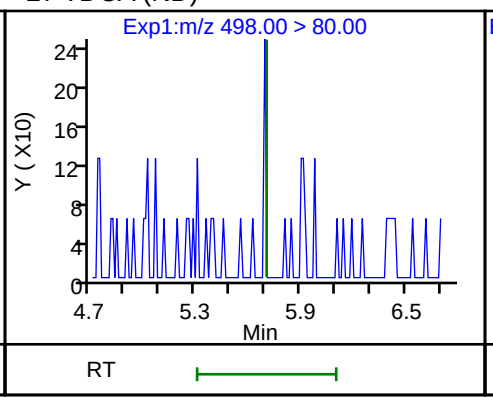
22 HFPO-DA (ND)



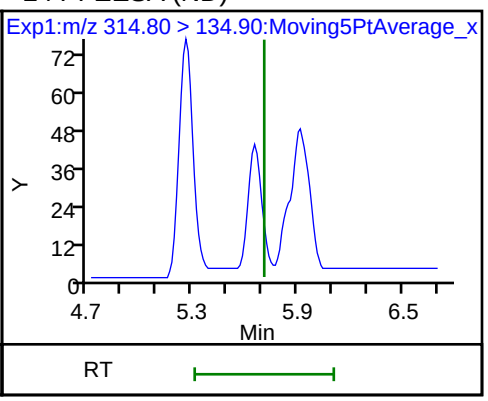
23 TCDCA (ND)



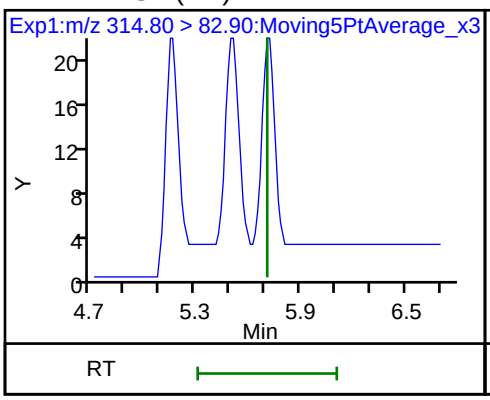
27 TDCA (ND)



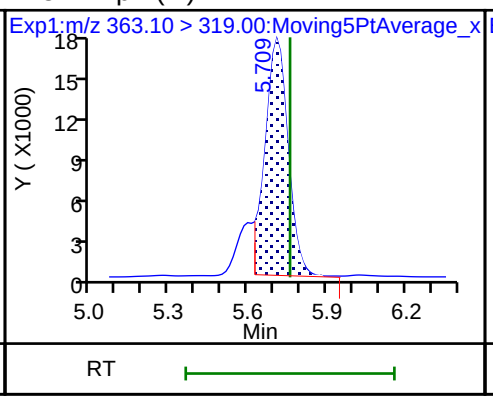
24 PFEESA (ND)



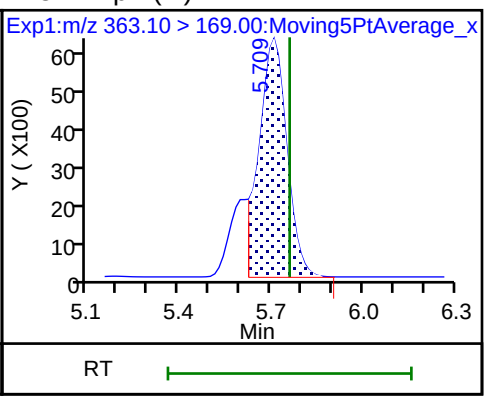
24 PFEESA (ND)



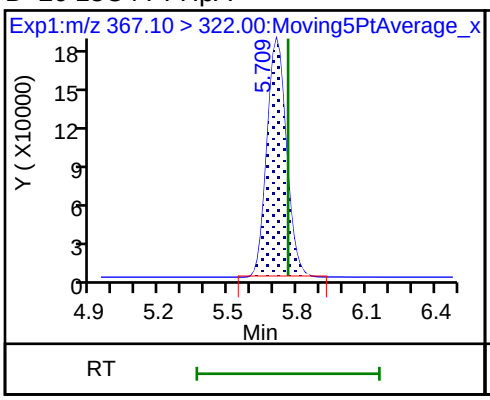
28 PFHpA (M)



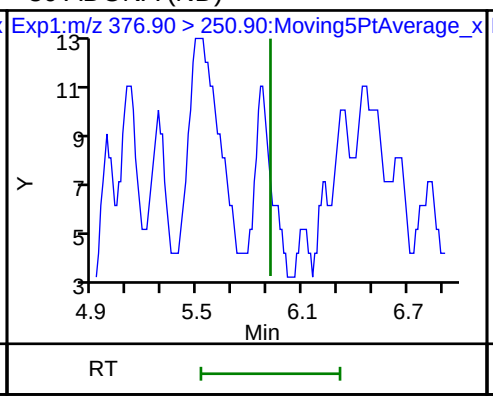
28 PFHpA (M)



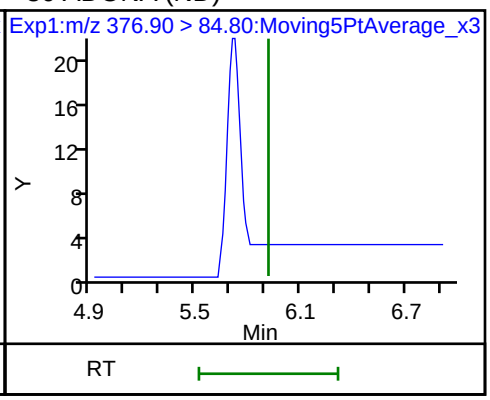
D 26 13C4 PFHpA



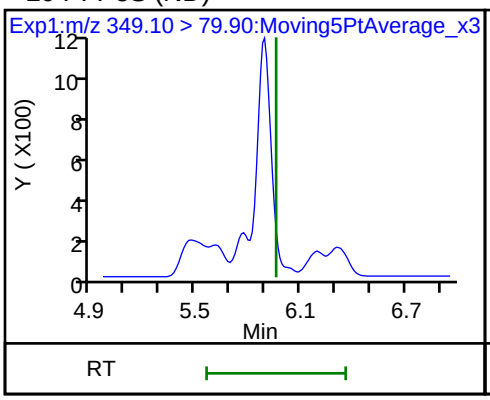
30 ADONA (ND)



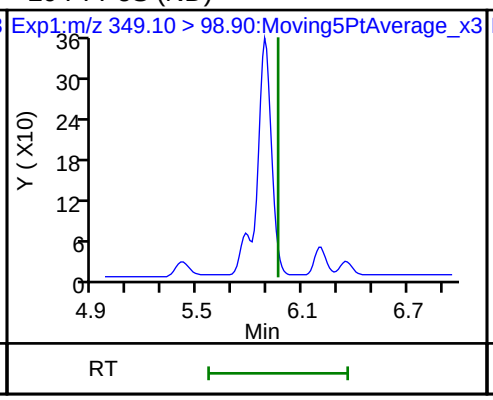
30 ADONA (ND)



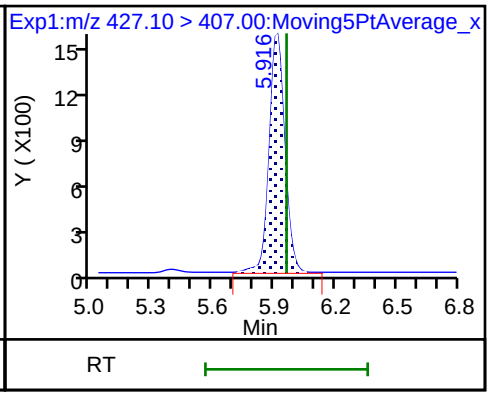
29 PFPeS (ND)



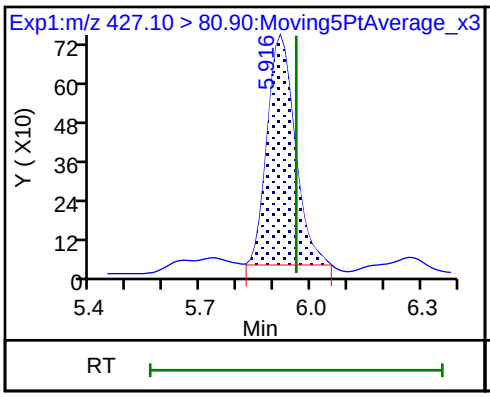
29 PFPeS (ND)



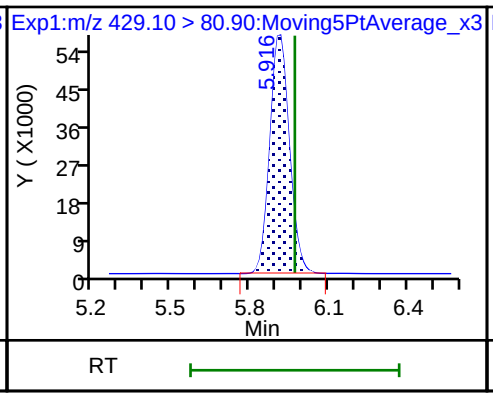
32 6:2FTS



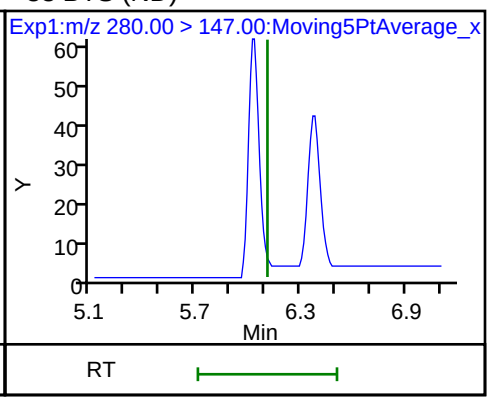
32 6:2FTS



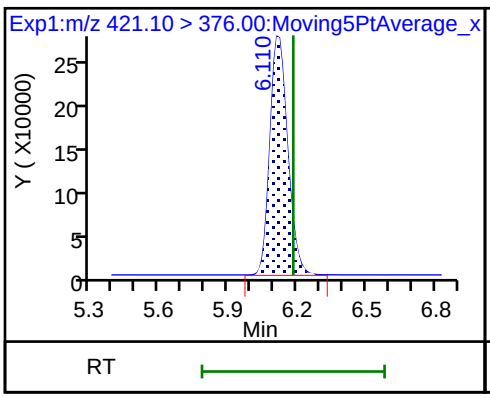
D 31 13C2-6:2FTS



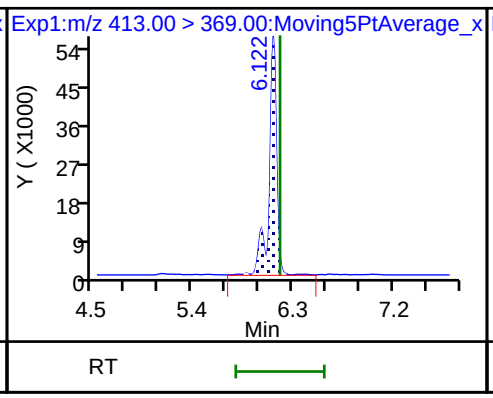
33 BTS (ND)



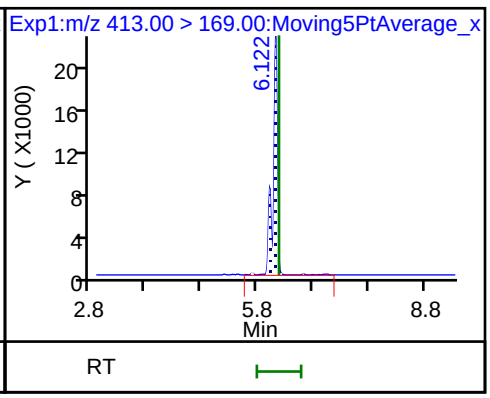
D 34 13C8 PFOA



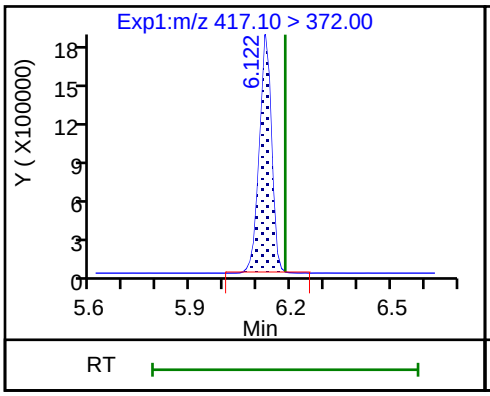
36 PFOA



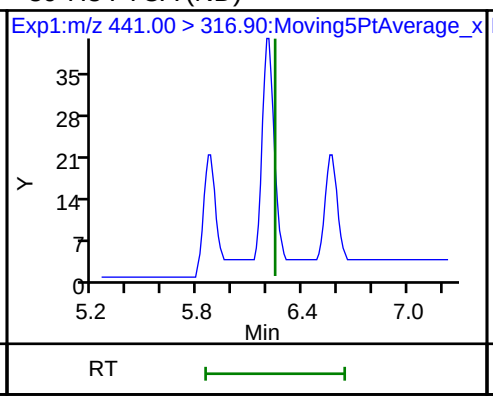
36 PFOA



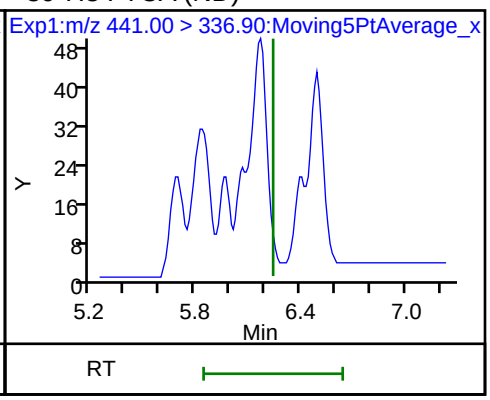
* 35 13C4 PFOA



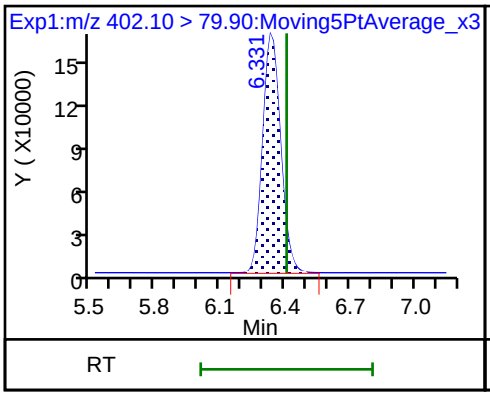
39 7:3 FTCA (ND)



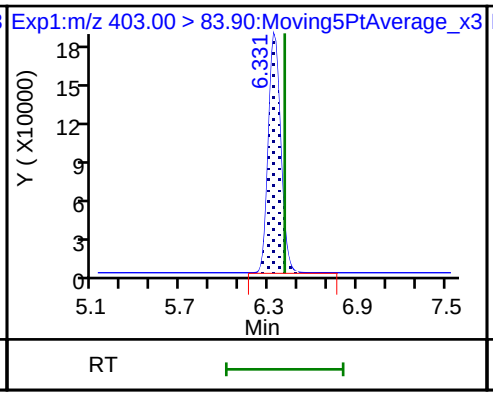
39 7:3 FTCA (ND)



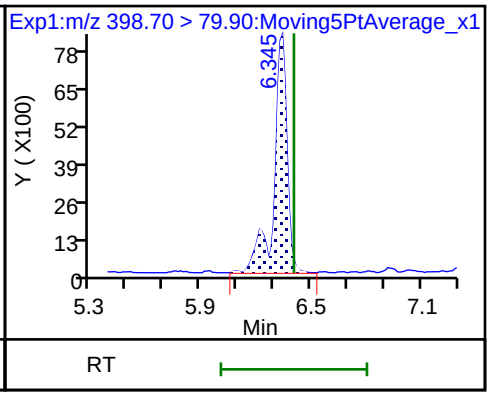
D 38 13C3 PFHxS



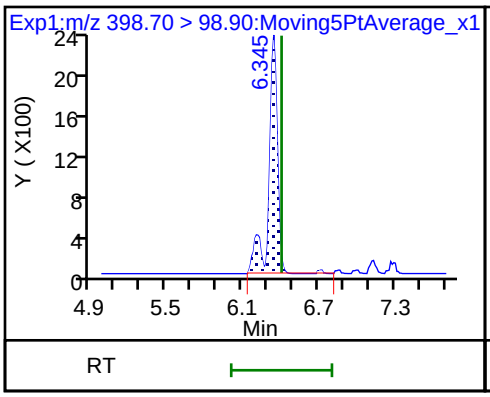
* 37 18O2 PFHxS



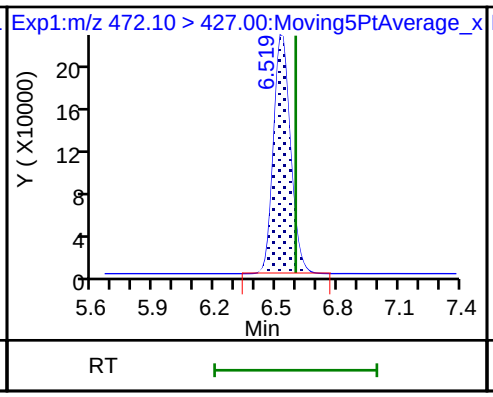
40 PFHxS



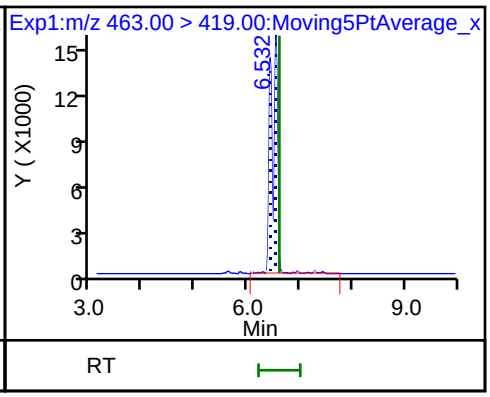
40 PFHxS



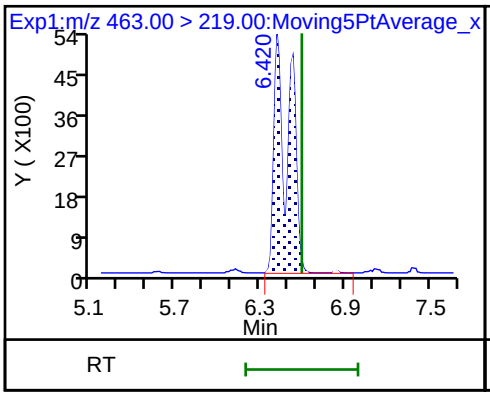
D 41 13C9 PFNA



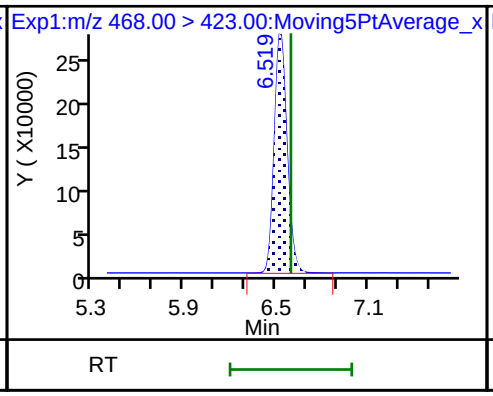
43 PFNA



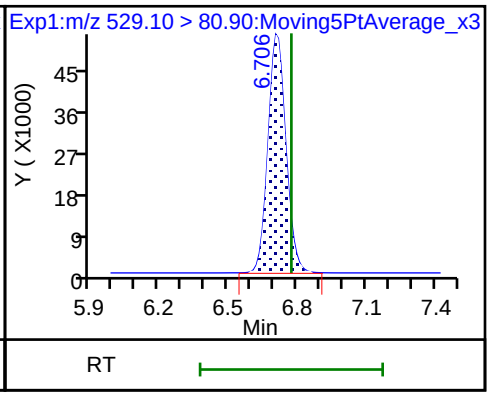
43 PFNA



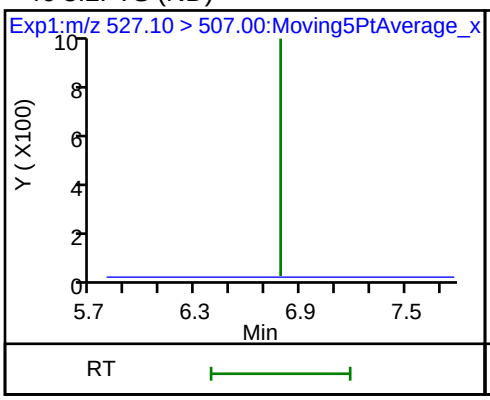
* 42 13C5 PFNA



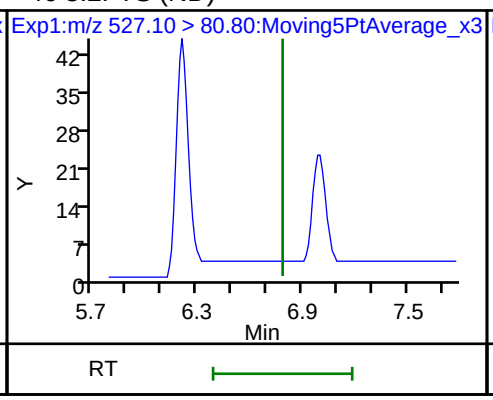
D 45 13C2-8:2FTS



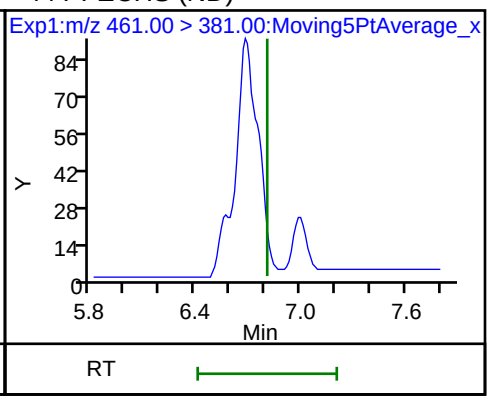
46 8:2FTS (ND)



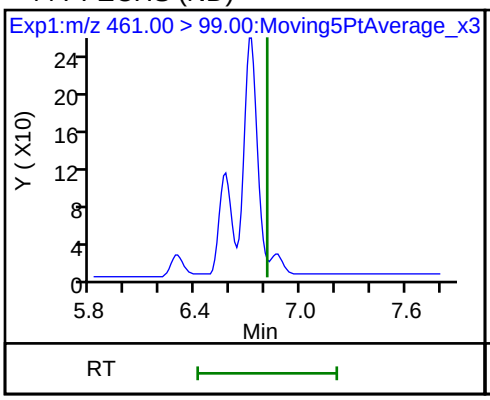
46 8:2FTS (ND)



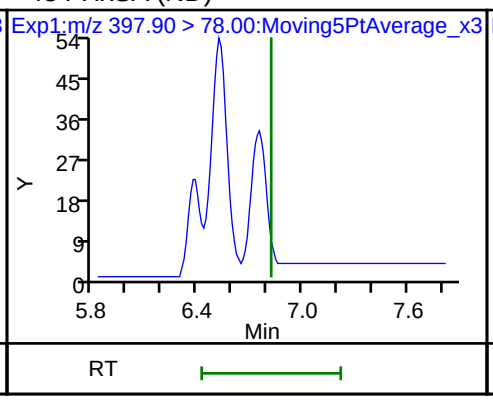
44 PFECHS (ND)



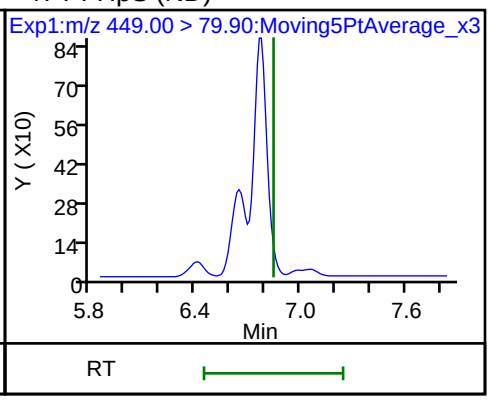
44 PFECHS (ND)



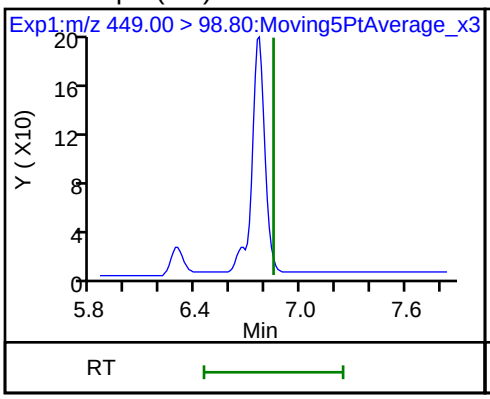
48 FHxSA (ND)



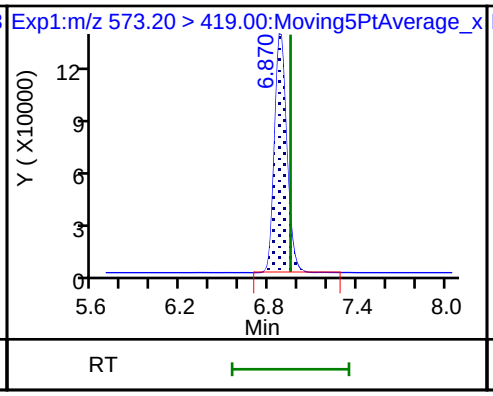
47 PFHpS (ND)



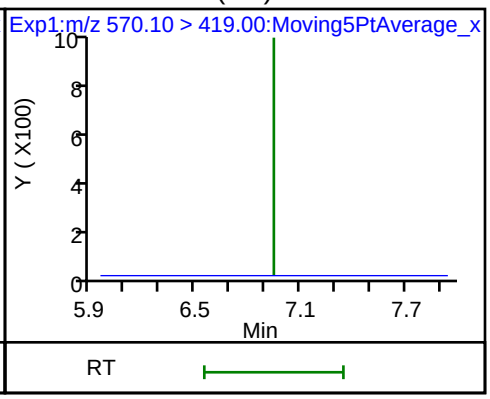
47 PFHpS (ND)



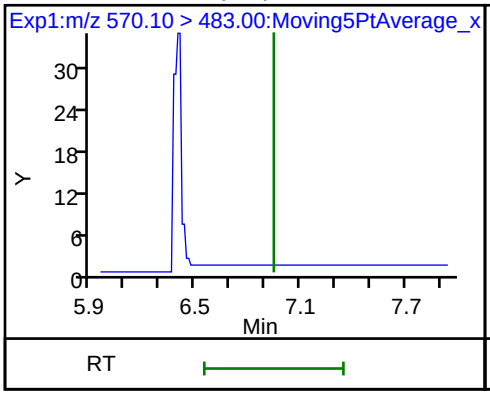
D 49 d3-NMeFOSAA



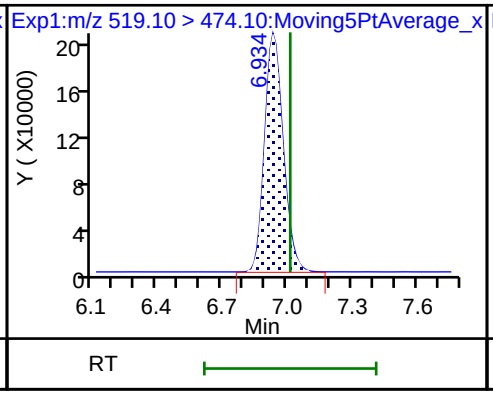
50 NMeFOSAA (ND)



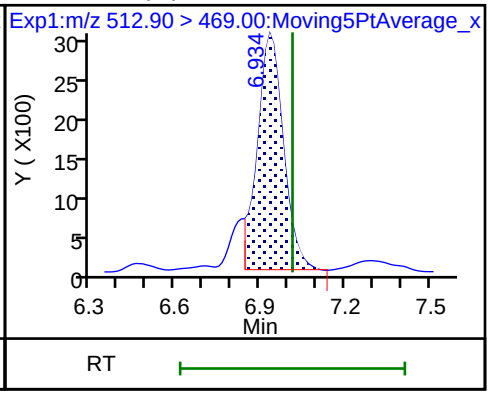
50 NMeFOSAA (ND)



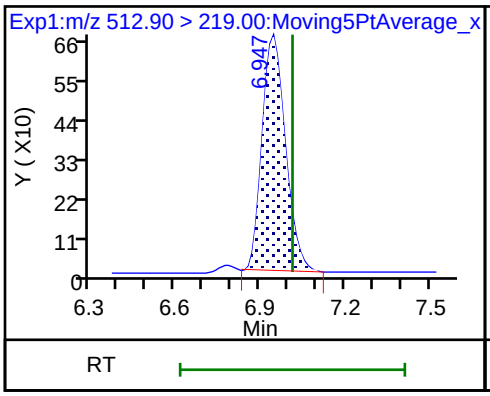
D 51 13C6 PFDA



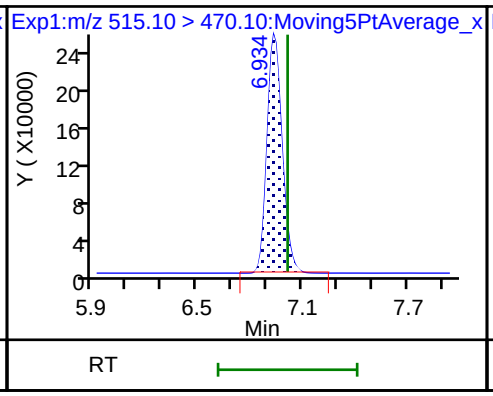
53 PFDA (M)



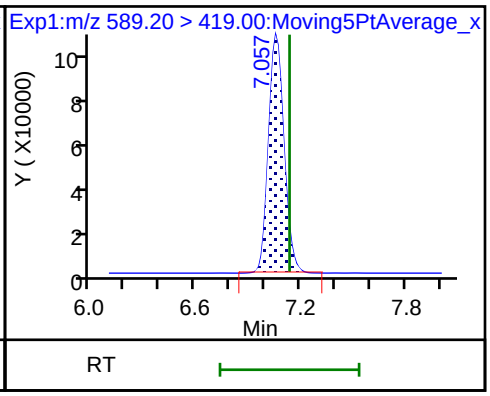
53 PFDA



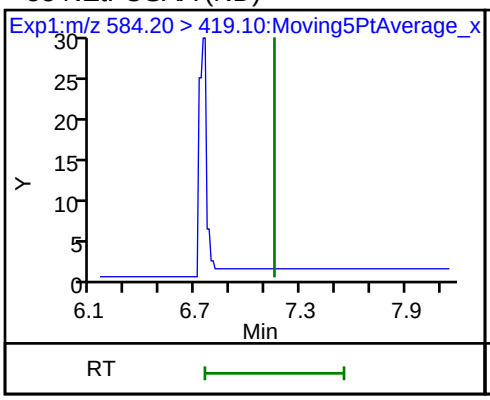
* 52 13C2 PFDA



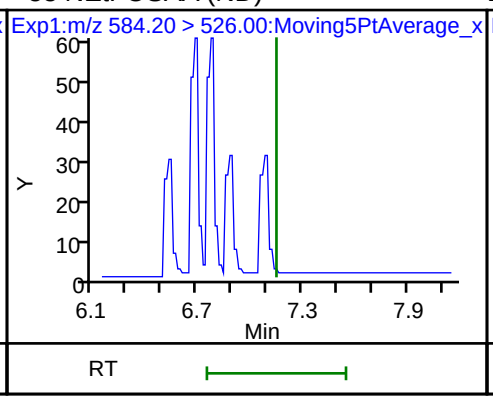
D 54 d5-NEtFOSAA



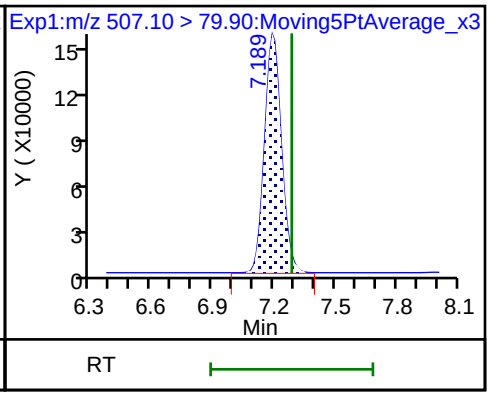
55 NEtFOSAA (ND)



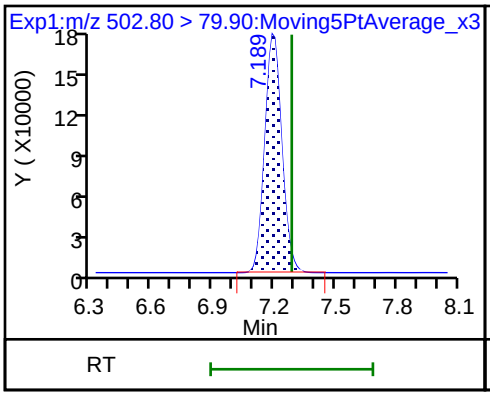
55 NEtFOSAA (ND)



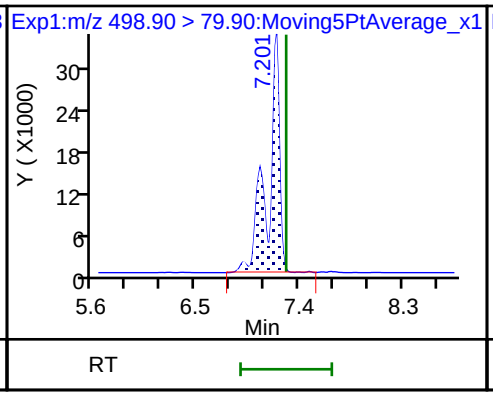
D 56 13C8 PFOS



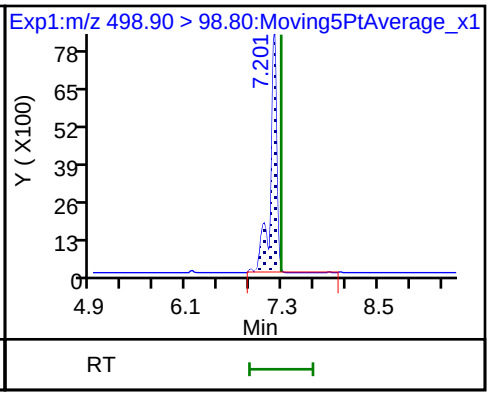
* 57 13C4 PFOS



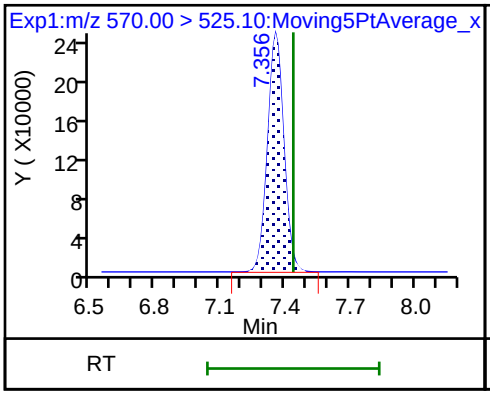
58 PFOS



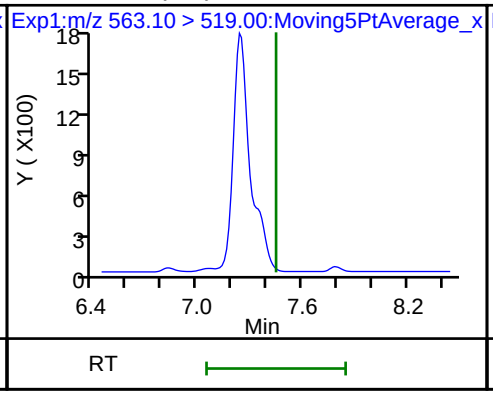
58 PFOS



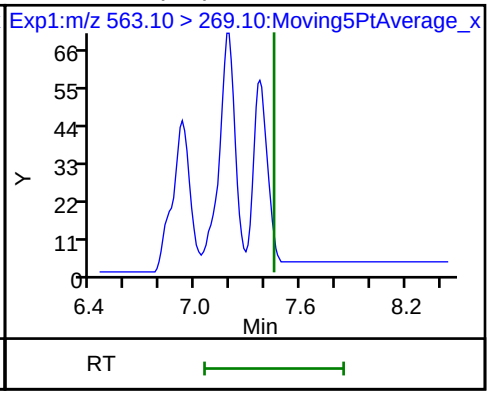
D 59 13C7 PFUnA



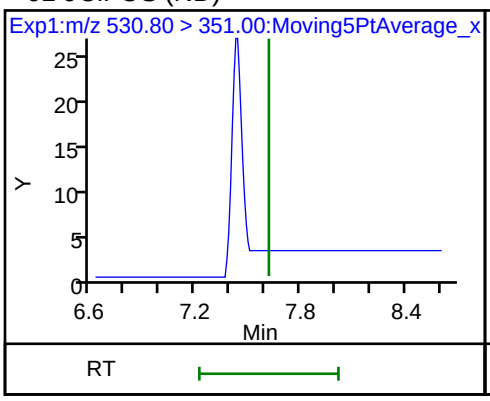
60 PFUnA (ND)



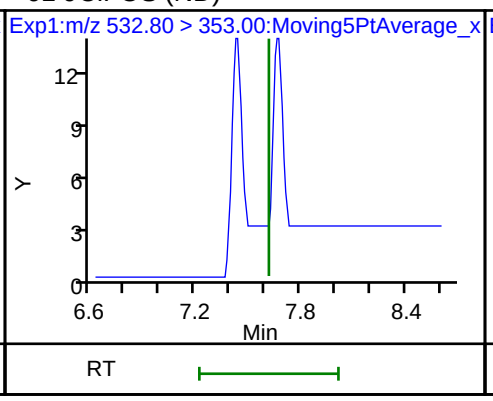
60 PFUnA (ND)



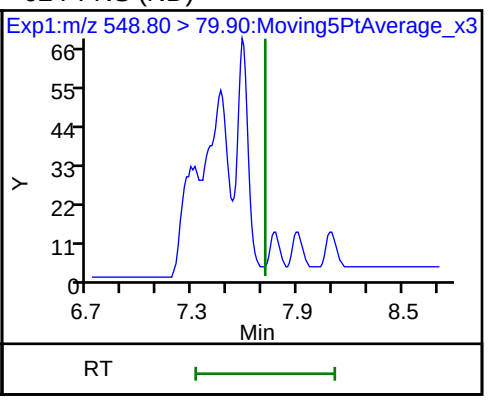
61 9ClFOS (ND)



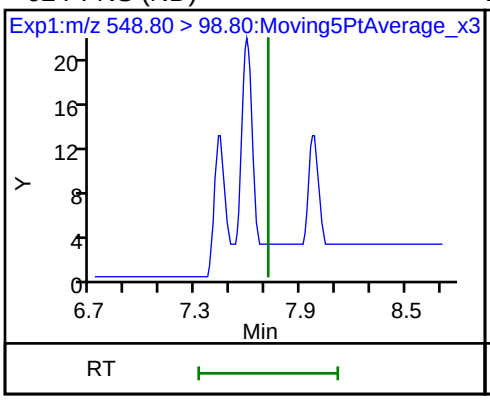
61 9ClFOS (ND)



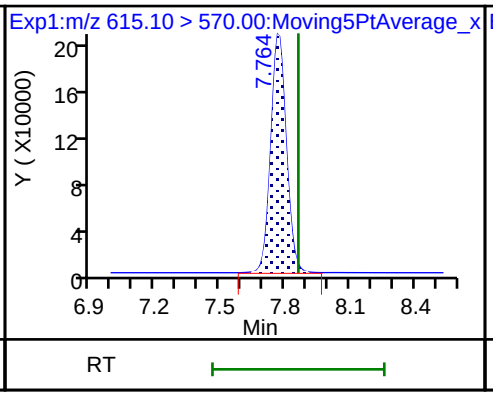
62 PFNS (ND)



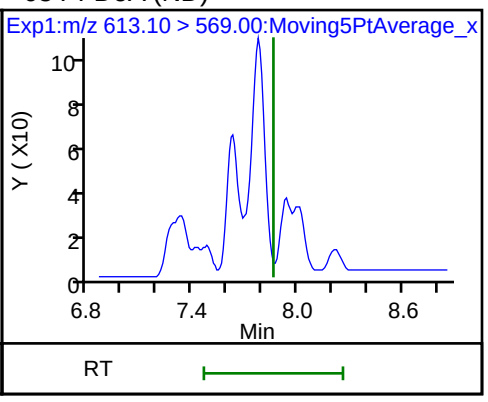
62 PFNS (ND)



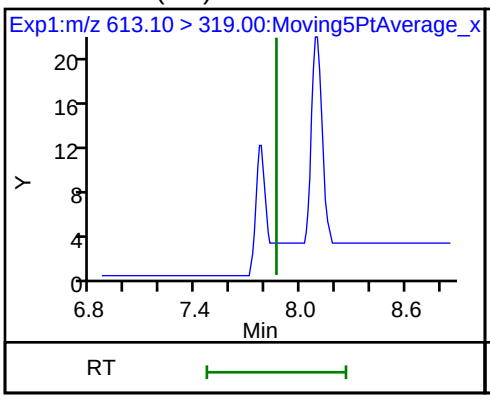
D 82 PFDoA



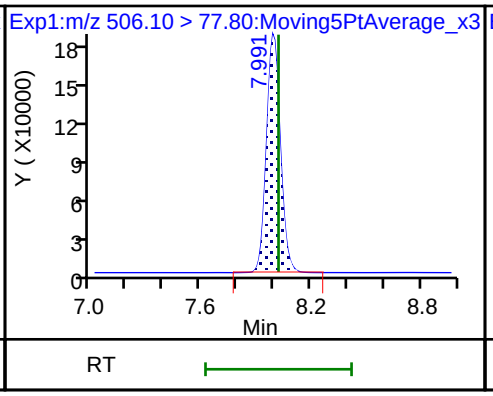
63 PFDoA (ND)



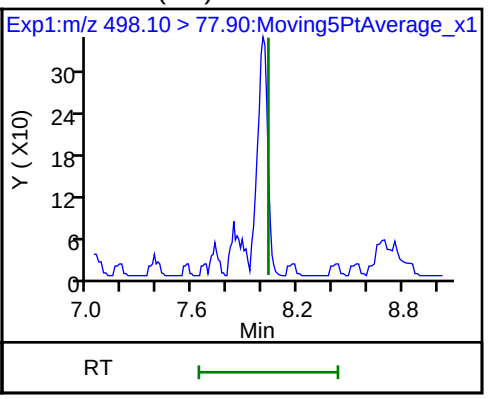
63 PFDoA (ND)



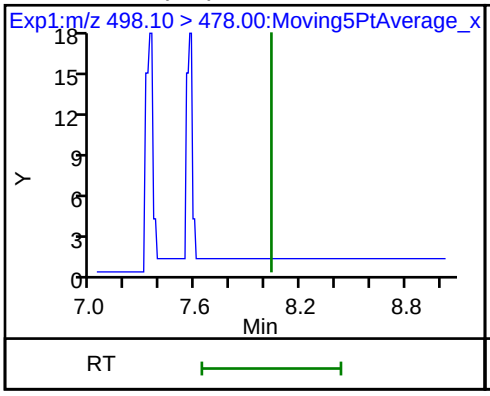
D 64 13C8 FOSA



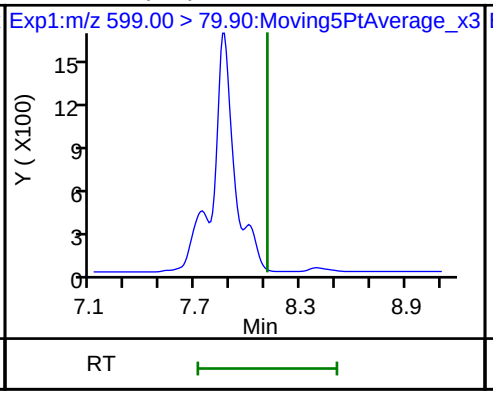
65 PFOSA (ND)



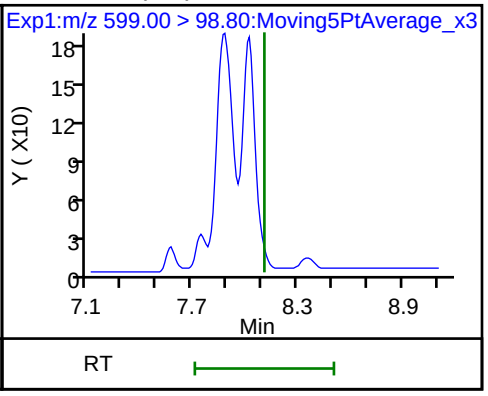
65 PFOSA (ND)



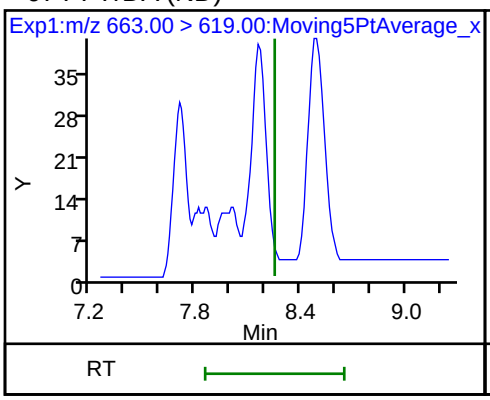
66 PFDS (ND)



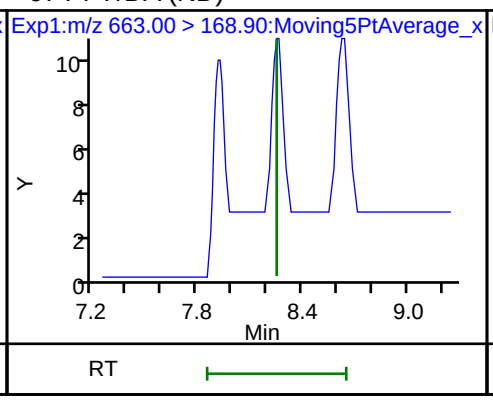
66 PFDS (ND)



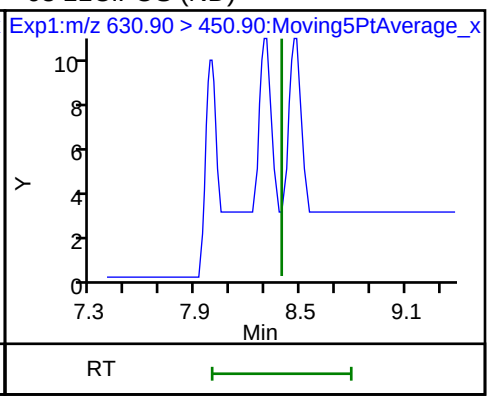
67 PFTrDA (ND)



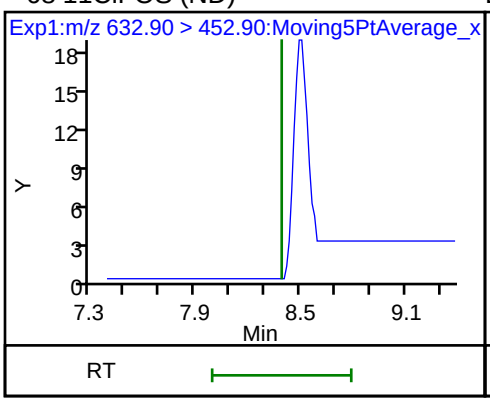
67 PFTrDA (ND)



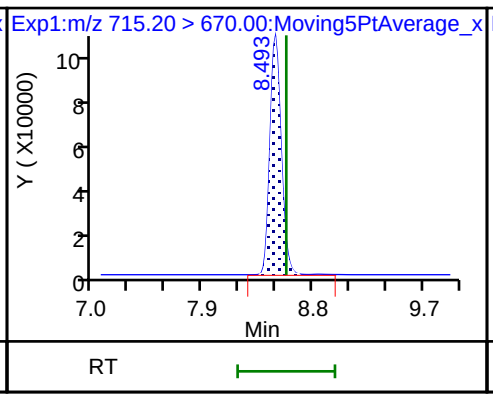
68 11ClFOS (ND)



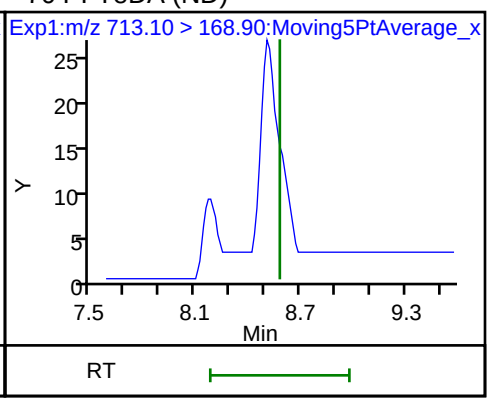
68 11ClFOS (ND)



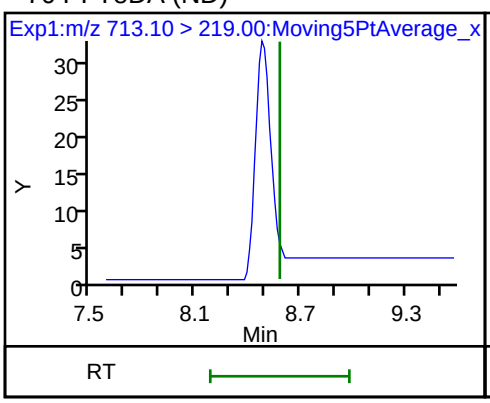
D 69 13C2 PFTeDA



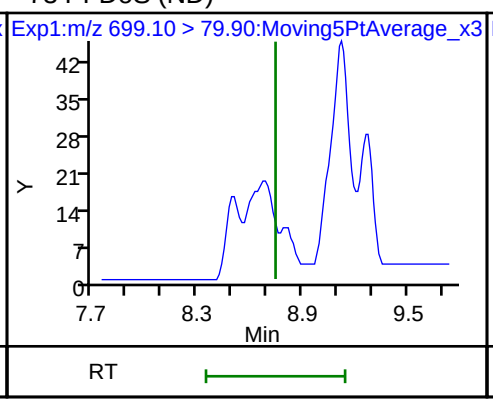
70 PFTeDA (ND)



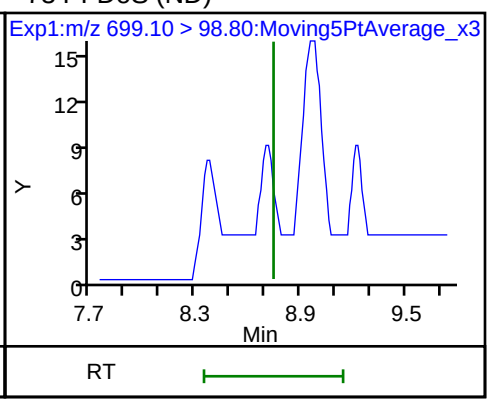
70 PFTeDA (ND)



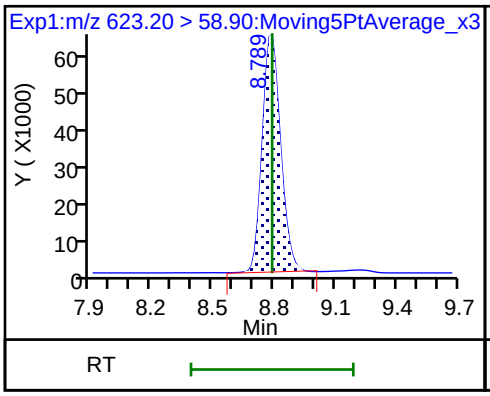
73 PFDoS (ND)



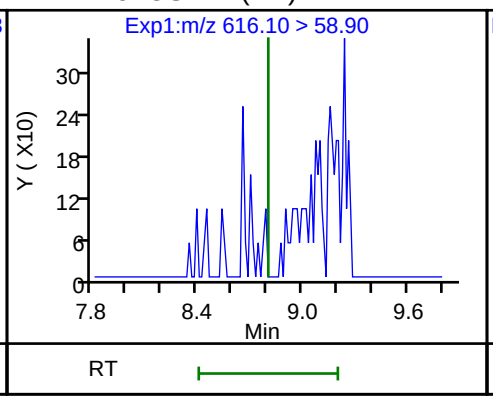
73 PFDoS (ND)



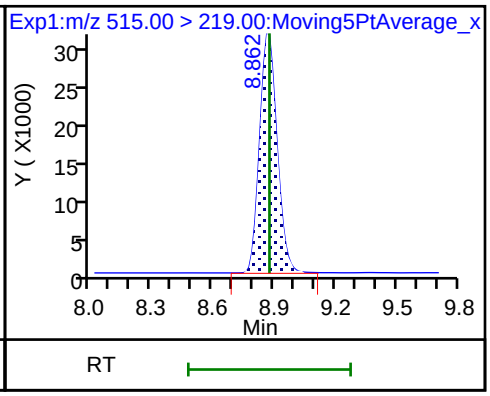
D 71 d7-N-Me-FOSE



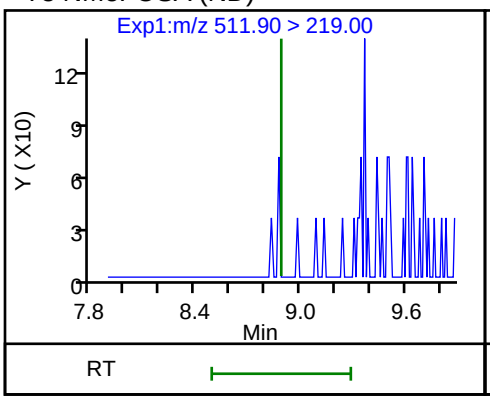
72 N-MeFOSE-M (ND)



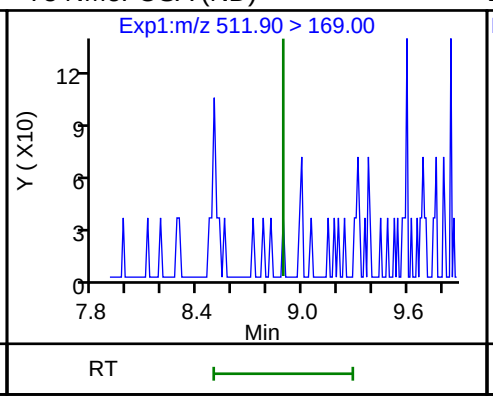
D 74 d3-NMePFOSA



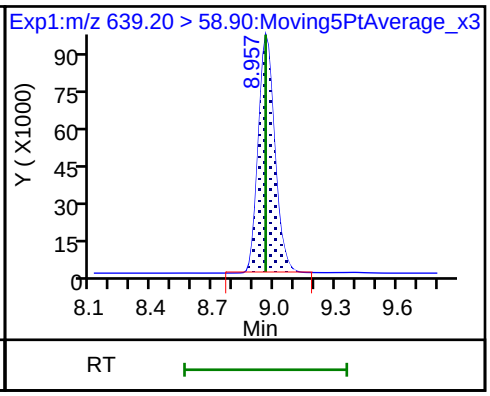
75 NMeFOSA (ND)



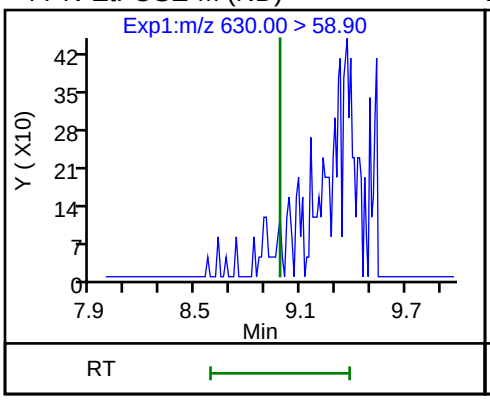
75 NMeFOSA (ND)



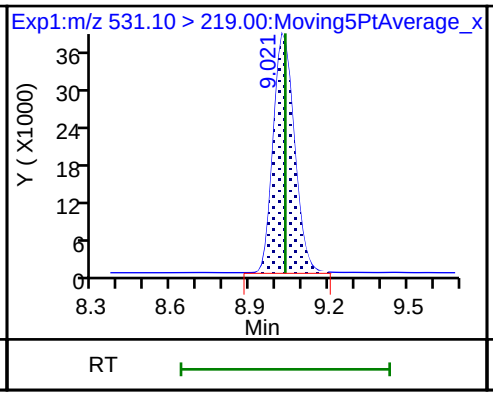
D 76 d9-N-EtFOSE



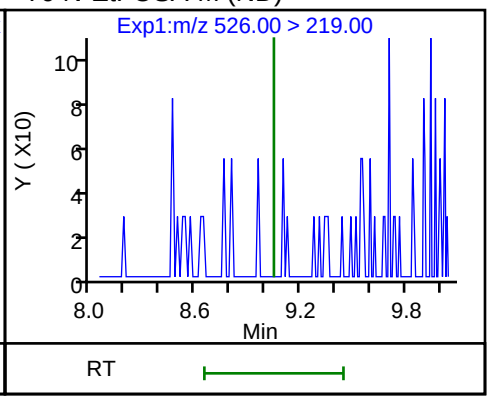
77 N-EtFOSE-M (ND)



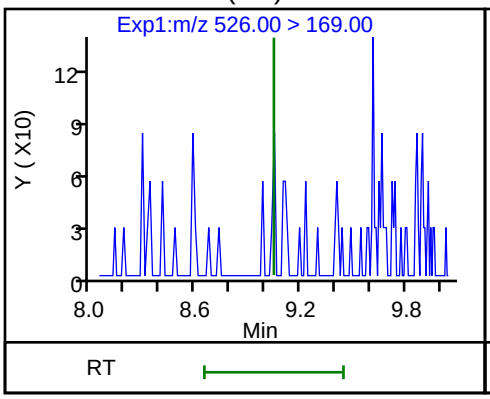
D 78 d5-NEtPFOSA



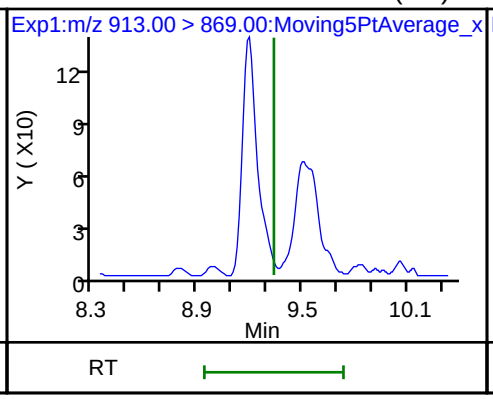
79 N-EtFOSA-M (ND)



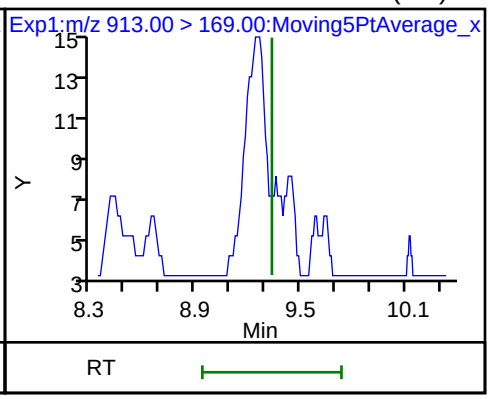
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

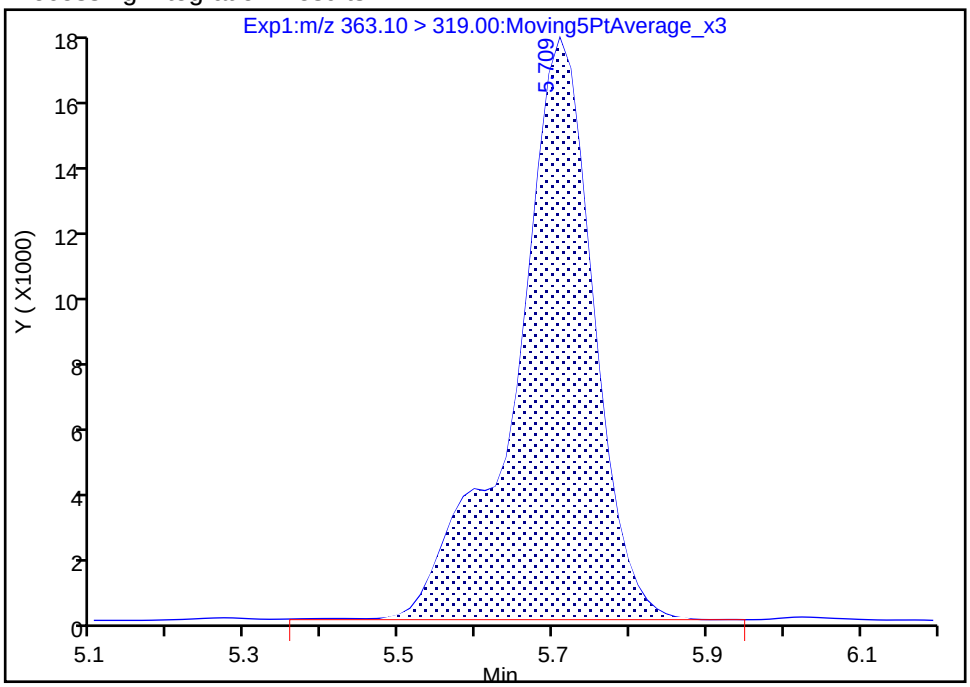
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-11.d				
Injection Date:	17-Feb-2025 18:15:02	Instrument ID:	30576		
Lims ID:	410-207884-A-3-B	Lab Sample ID:	410-207884-3		
Client ID:	MW-33D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	16	Worklist Smp#:	84
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 1

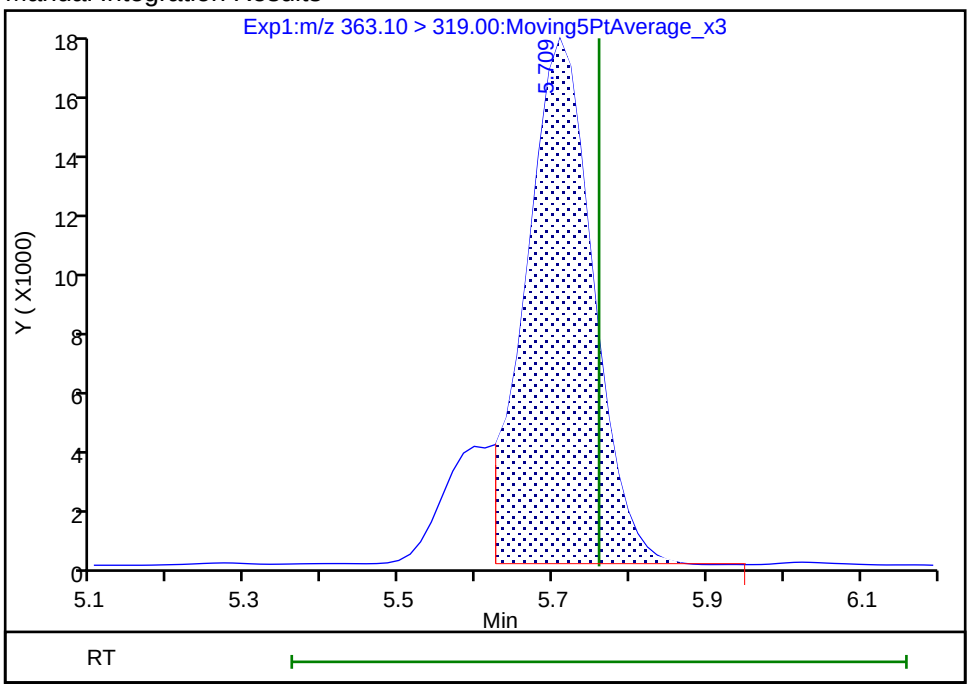
Processing Integration Results

RT: 5.71
Area: 122182
Amount: 0.236262
Amount Units: ng/ml



Manual Integration Results

RT: 5.71
Area: 104332
Amount: 0.201745
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:58:13 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

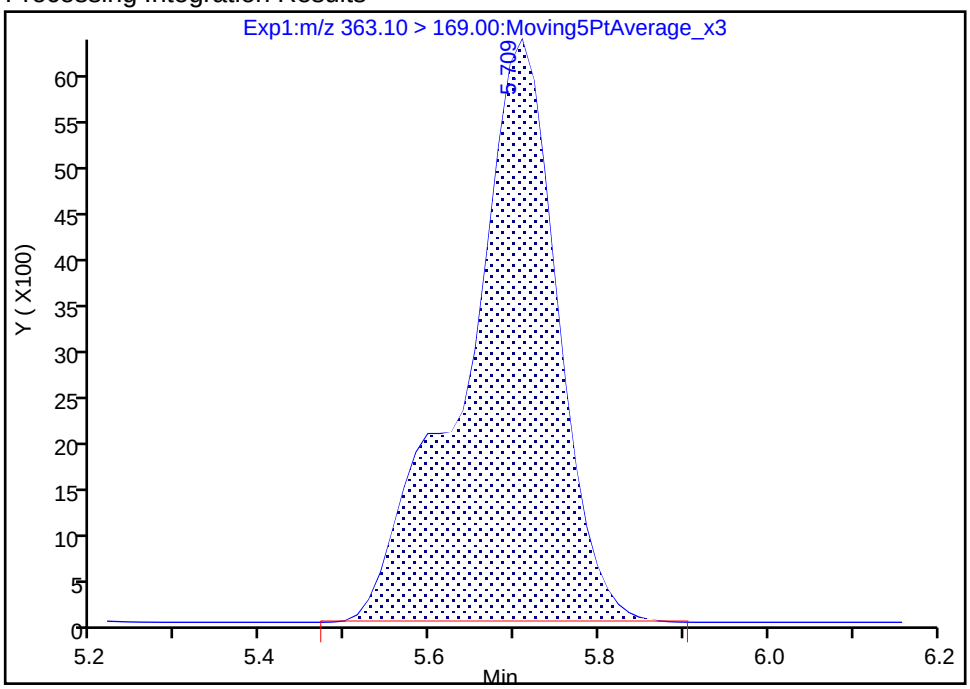
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-11.d				
Injection Date:	17-Feb-2025 18:15:02	Instrument ID:	30576		
Lims ID:	410-207884-A-3-B	Lab Sample ID:	410-207884-3		
Client ID:	MW-33D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	16	Worklist Smp#:	84
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 2

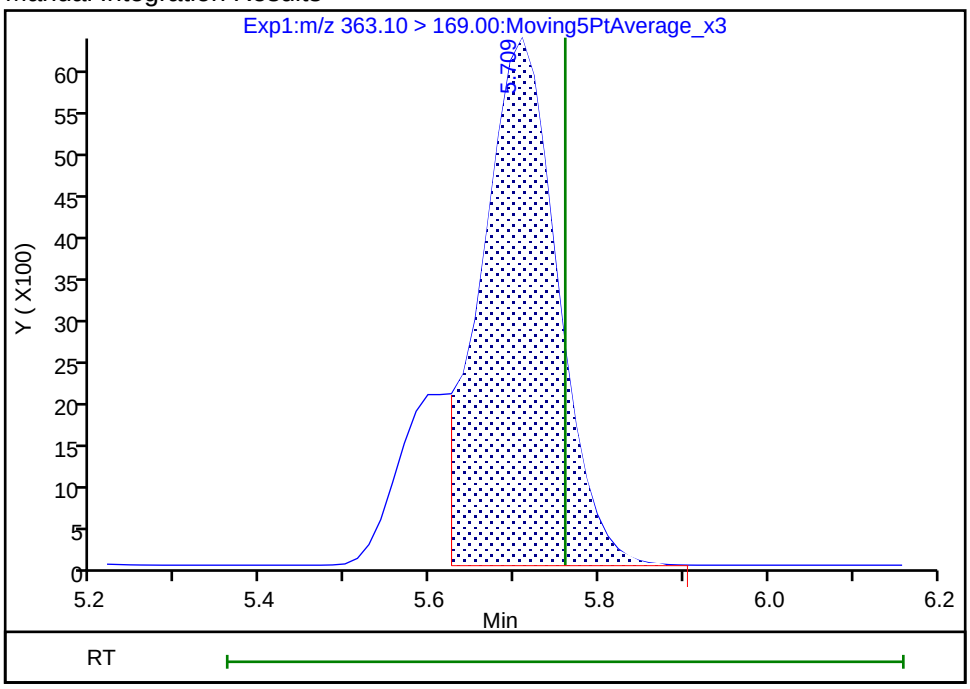
Processing Integration Results

RT: 5.71
Area: 47925
Amount: 0.236262
Amount Units: ng/ml



Manual Integration Results

RT: 5.71
Area: 39292
Amount: 0.201745
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:58:16 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

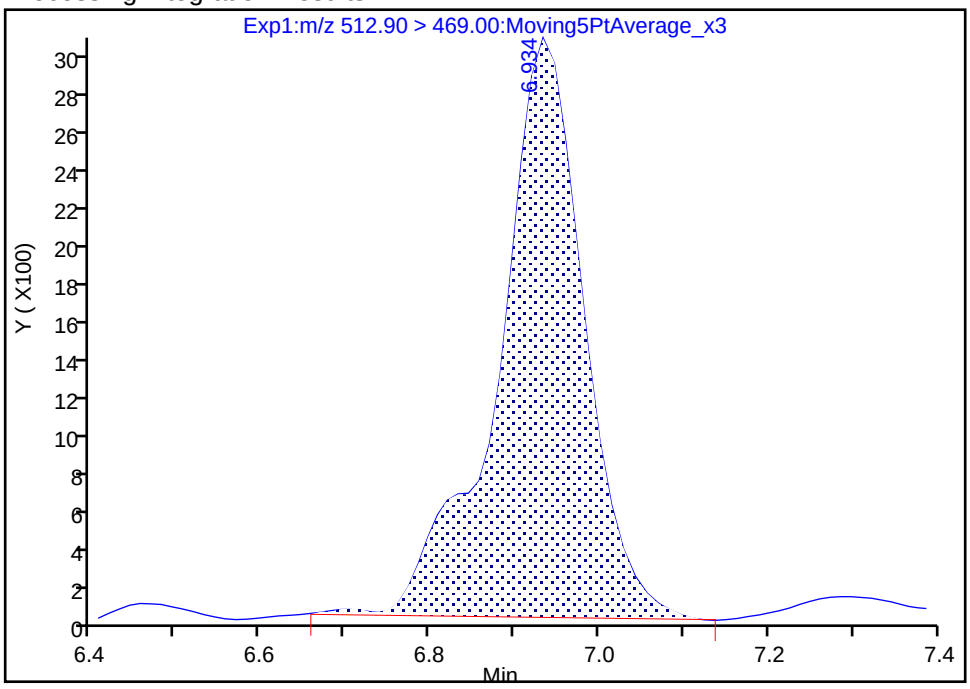
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-11.d				
Injection Date:	17-Feb-2025 18:15:02	Instrument ID:	30576		
Lims ID:	410-207884-A-3-B	Lab Sample ID:	410-207884-3		
Client ID:	MW-33D-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	16	Worklist Smp#:	84
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

53 PFDA, CAS: 335-76-2

Signal: 1

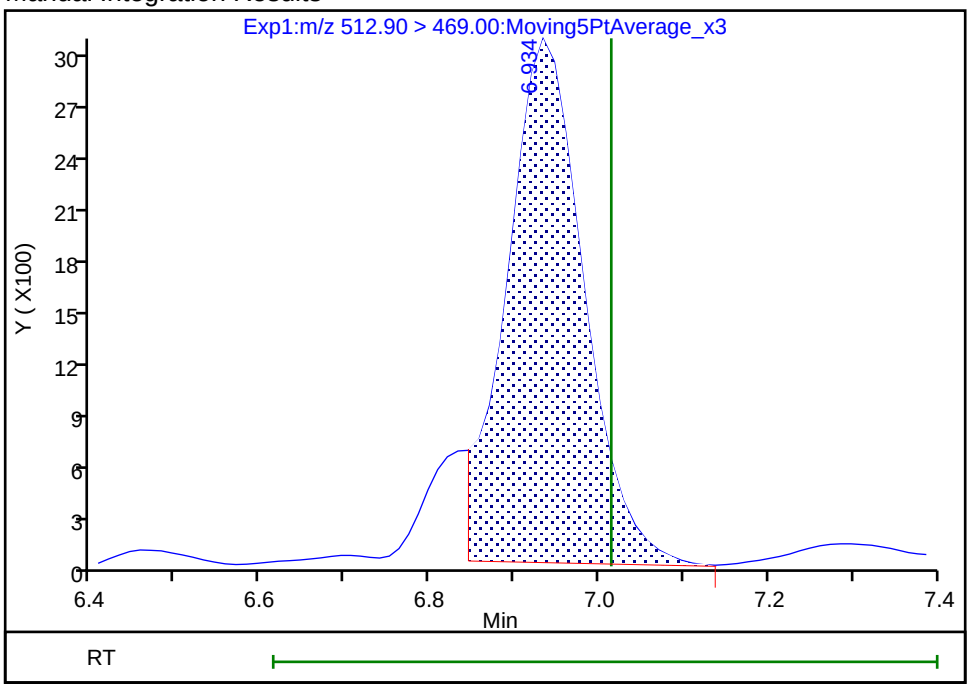
Processing Integration Results

RT: 6.93
Area: 21123
Amount: 0.039167
Amount Units: ng/ml



Manual Integration Results

RT: 6.93
Area: 18926
Amount: 0.035093
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:58:31 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: VFCC-2-021225
Lab Sample ID: 410-207884-4

Matrix: Water
Lab File ID: 25FEB17W-14.d

Analysis Method: 1633
Date Collected: 02/12/2025 13:40

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 140.1(mL)
Date Analyzed: 02/17/2025 18:55

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	5.6		3.6	0.98
2706-90-3	Perfluoropentanoic acid	9.0		1.8	0.54
307-24-4	Perfluorohexanoic acid	7.4		1.8	0.45
375-85-9	Perfluoroheptanoic acid	6.1		1.8	0.71
335-67-1	Perfluorooctanoic acid	19		1.8	0.80
375-95-1	Perfluorononanoic acid	4.9		1.8	0.45
335-76-2	Perfluorodecanoic acid	0.78	J	1.8	0.45
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid	2.9		1.8	0.45
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid	4.1		1.8	0.71
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid	55		1.8	0.45
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.45
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.45
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.54
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.6	0.89
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.6	0.89
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.6	0.89
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.45
31506-32-8	NMeFOSA	ND		1.8	0.45
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.45
2355-31-9	NMeFOSAA	ND		1.8	0.45
2991-50-6	NEtFOSAA	ND		1.8	0.45

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: VFCC-2-021225
Lab Sample ID: 410-207884-4

Matrix: Water
Lab File ID: 25FEB17W-14.d

Analysis Method: 1633
Date Collected: 02/12/2025 13:40

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 140.1(mL)
Date Analyzed: 02/17/2025 18:55

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2
13252-13-6	HFPO-DA	0.92	J	1.8	0.67
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.45
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.45
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.45
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.45
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.45
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.45
113507-82-7	PFEESA	ND		1.8	0.45
356-02-5	3:3 FTCA	ND		3.6	0.89
914637-49-3	5:3 FTCA	ND		8.9	2.5
812-70-4	7:3 FTCA	ND		8.9	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Client Sample ID: VFCC-2-021225 Lab Sample ID: 410-207884-4

Matrix: Water Lab File ID: 25FEB17W-14.d

Analysis Method: 1633 Date Collected: 02/12/2025 13:40

Extraction Method: 1633 Date Extracted: 02/17/2025 10:23

Sample wt/vol: 140.1(mL) Date Analyzed: 02/17/2025 18:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840 Units: ng/L

Preparation Batch No.: 606716 Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84.6		5-130
STL01893	13C5 PFPeA	107	cn	40-130
STL02577	13C5 PFHxA	109	cn	40-130
STL01892	13C4 PFHpA	103	cn	40-130
STL01052	13C8 PFOA	76.2		40-130
STL02578	13C9 PFNA	77.2		40-130
STL02579	13C6 PFDA	80.2		40-130
STL02580	13C7 PFUnA	85.1	cn	30-130
STL02116	13C2 PFTeDA	77.0	cn	10-130
STL02337	13C3 PFBS	87.9		40-135
STL02581	13C3 PFHxS	79.2		40-130
STL01054	13C8 PFOS	90.6		40-130
STL01056	13C8 FOSA	84.7		40-130
STL02118	d3-NMeFOSAA	88.7		40-170
STL02117	d5-NEtFOSAA	90.7		25-135
STL02395	M2-4:2 FTS	69.5		40-200
STL02279	M2-6:2 FTS	68.8		40-200
STL02280	M2-8:2 FTS	69.4		40-300
STL02255	13C3 HFPO-DA	103	cn	40-130
STL02277	d7-N-MeFOSE-M	89.7		10-130
STL02278	d9-N-EtFOSE-M	88.7		10-130
STL02704	d5-NEtPFOSA	57.7		10-130
STL02705	d3-NMePFOSA	56.8		10-130
STL00998	13C2 PFDoA	75.3		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-14.d
Lims ID: 410-207884-A-4-B
Client ID: VFCC-2-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 18:55:50 ALS Bottle#: 19 Worklist Smp#: 87
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-4-B
Misc. Info.: Plate: 2 Rack: 1 410-0138392-087
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 19:23:59 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 19:23:59
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PFBA										
212.80 > 168.90	4.172	4.216	-0.044	0.998	93043	0.1575			796	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.224	-0.043	1.000	1339942	1.69		84.6	68449	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.224	-0.043		1483294	2.00			27770	
D 8 13C5 PFPeA										
268.30 > 223.00	4.821	4.866	-0.045	0.915	739149	2.14		107	49751	
9 PFPA										
263.00 > 219.00	4.821	4.866	-0.045	1.000	139187	0.2508			2743	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.089	5.139	-0.050	0.805	311043	3.26		69.5	8344	
D 15 13C5 PFHxA										
318.00 > 273.00	5.271	5.318	-0.047	1.000	1090859	2.18		109	65122	
* 16 13C2 PFHxA										
315.10 > 270.00	5.271	5.318	-0.047		2832811	5.00			168667	
17 PFHxA										
313.00 > 269.00	5.271	5.318	-0.047	1.000	105855	0.2085	Target=10.68		2944	
313.00 > 118.90	5.271	5.318	-0.047	1.000	9155		11.56(5.34-16.02)		550	
19 PFBS										
298.70 > 79.90	5.399	5.456	-0.057	1.000	46757	0.0816	Target=2.96		1876	
298.70 > 98.80	5.399	5.456	-0.057	1.000	14826		3.15(1.48-4.44)		809	
D 18 13C3 PFBS										
302.10 > 79.90	5.399	5.456	-0.057	0.855	1086123	1.64		87.9	59134	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.456	5.514	-0.058	1.035	1275515	2.06		103	68882	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 HFPO-DA										
284.90 > 168.90	5.456	5.514	-0.058	1.000	16491	0.0259	Target=2.37		440	
284.90 > 184.90	5.456	5.514	-0.058	1.000	11319		1.46(1.19-3.56)		411	
28 PFHpA										M
363.10 > 319.00	5.694	5.760	-0.066	1.000	84985	0.1704	Target=2.56		1431	M
363.10 > 169.00	5.694	5.760	-0.066	1.000	31932		2.66(1.28-3.85)		825	
D 26 13C4 PFHpA										
367.10 > 322.00	5.694	5.760	-0.066	1.080	1046540	2.06		103	59018	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.904	5.971	-0.067	0.934	327210	3.27		68.8	21151	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.183	-0.073	1.000	1412286	1.52		76.2	88056	
36 PFOA										
413.00 > 369.00	6.110	6.183	-0.073	1.000	313945	0.5464	Target=2.35		11079	
413.00 > 169.00	6.110	6.183	-0.073	1.000	136934		2.29(1.18-3.53)		25000	
* 35 13C4 PFOA										
417.10 > 372.00	6.110	6.183	-0.073		4344959	5.00			841687	
40 PFHxS										
398.70 > 79.90	6.331	6.407	-0.076	1.002	46409	0.1143	Target=3.23		4849	
398.70 > 98.90	6.318	6.407	-0.089	1.000	16409		2.83(1.62-4.85)		3393	
D 38 13C3 PFHxS										
402.10 > 79.90	6.318	6.407	-0.089	1.000	931986	1.50		79.2	53096	
* 37 18O2 PFHxS										
403.00 > 83.90	6.318	6.407	-0.089		1144456	1.89			65835	
43 PFNA										M
463.00 > 419.00	6.419	6.595	-0.176	0.987	73844	0.1369	Target=2.70		2489	M
463.00 > 219.00	6.407	6.595	-0.188	0.985	21895		3.37(1.35-4.05)		3302	M
* 42 13C5 PFNA										
468.00 > 423.00	6.506	6.595	-0.089		1659526	2.00			95491	
D 41 13C9 PFNA										
472.10 > 427.00	6.506	6.595	-0.089	1.000	1312379	1.54		77.2	57110	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.694	6.774	-0.080	1.060	287017	3.33		69.4	17405	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.858	6.947	-0.089	0.956	767142	4.43		88.7	44368	
D 51 13C6 PFDA										
519.10 > 474.10	6.920	7.014	-0.094	1.000	1359607	1.60		80.2	57527	
53 PFDA										M
512.90 > 469.00	6.920	7.014	-0.094	1.000	12871	0.0220	Target=5.26		419	
512.90 > 219.00	6.934	7.014	-0.080	1.002	2577		4.99(2.63-7.89)		133	M
* 52 13C2 PFDA										
515.10 > 470.10	6.920	7.014	-0.094		1606902	2.00			90631	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.043	7.137	-0.094	0.981	643526	4.53		90.7	34365	
D 56 13C8 PFOS										
507.10 > 79.90	7.176	7.285	-0.109	1.000	880869	1.73		90.6	37918	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 57 13C4 PFOS										
502.80 > 79.90	7.176	7.285	-0.109		949465	1.91			54545	
58 PFOS										
498.90 > 79.90	7.176	7.285	-0.109	1.000	900805	1.54	Target=4.45		71695	
498.90 > 98.80	7.176	7.285	-0.109	1.000	201231		4.48(2.23-6.68)		41677	
D 59 13C7 PFUnA										
570.00 > 525.10	7.334	7.438	-0.104	1.060	1345137	1.70		85.1	62397	
D 82 PFDoA										
615.10 > 570.00	7.754	7.862	-0.108	1.121	1002084	1.51		75.3	66498	
D 64 13C8 FOSA										
506.10 > 77.80	7.980	8.022	-0.042	1.112	1026059	1.69		84.7	64969	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.464	8.581	-0.117	1.223	724363	1.54		77.0	37405	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.789	-0.015	1.223	422459	4.48		89.7	6834	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.862	8.876	-0.014	1.235	180632	1.14		56.8	10164	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.248	543441	4.43		88.7	16193	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.257	206723	1.15		57.7	12744	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 19:24:18 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-14.d

Injection Date: 17-Feb-2025 18:55:50 Instrument ID: 30576

Lims ID: 410-207884-A-4-B Lab Sample ID: 410-207884-4

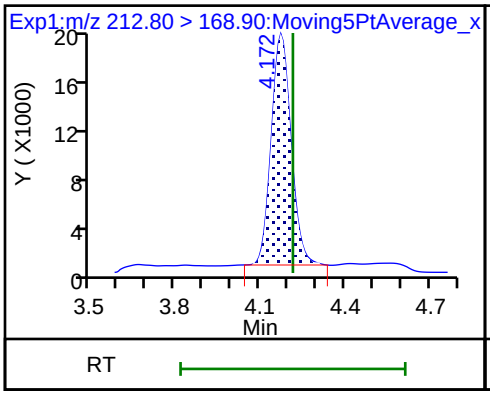
Client ID: VFCC-2-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 19 Worklist Smp#: 87

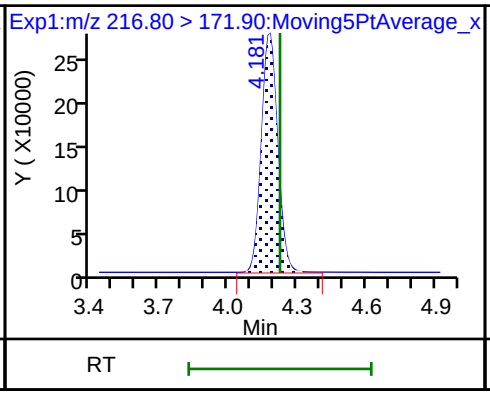
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

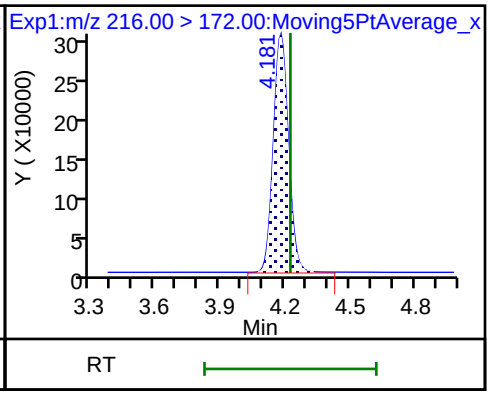
5 PFBA



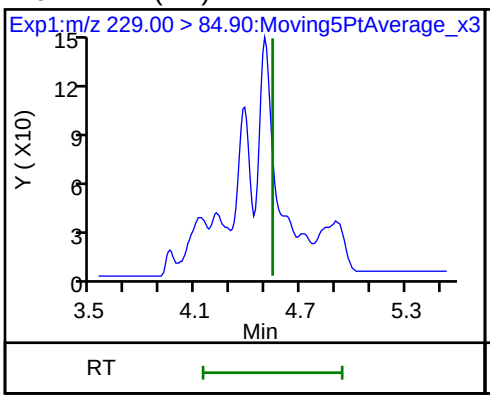
D 3 13C4-PFBA



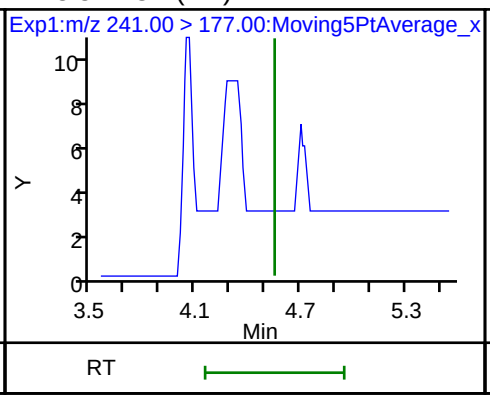
* 4 13C3PFBA



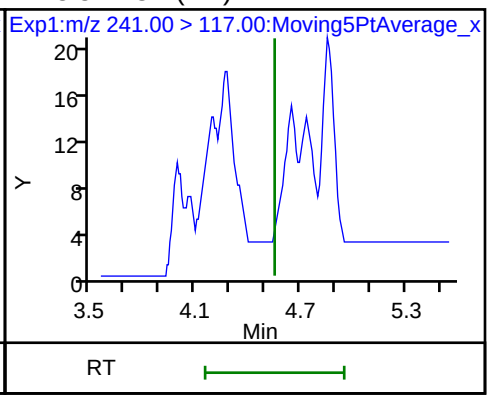
6 PFMPA (ND)



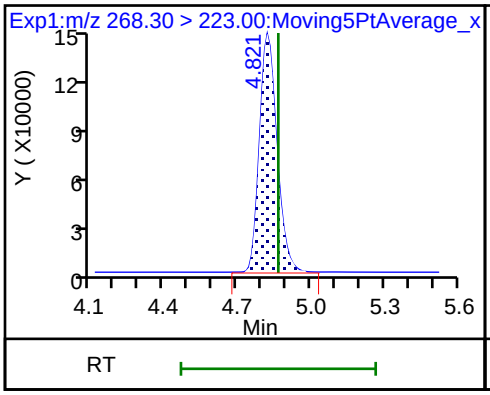
7 3:3 FTCA (ND)



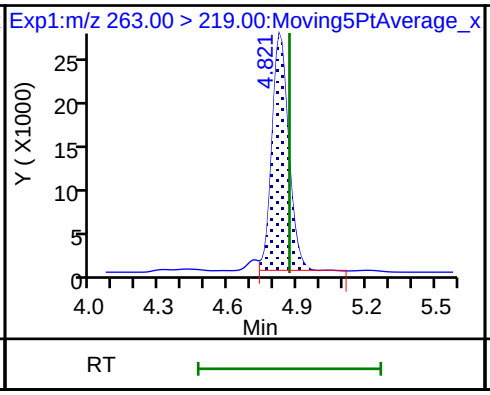
7 3:3 FTCA (ND)



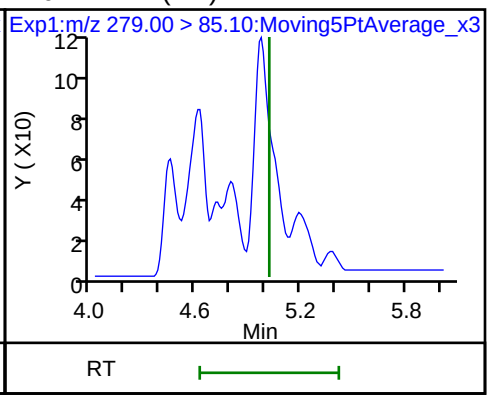
D 8 13C5 PFPeA



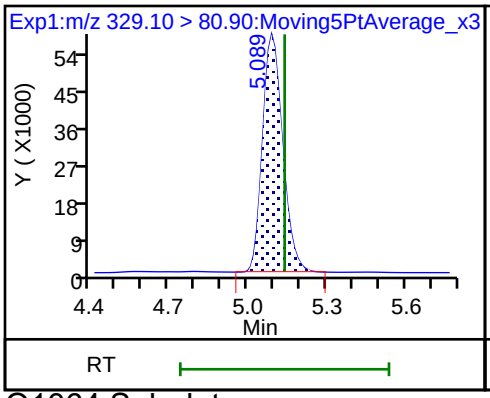
9 PFPA



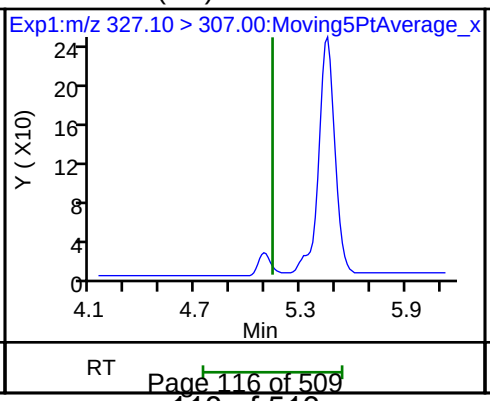
10 PFMBA (ND)



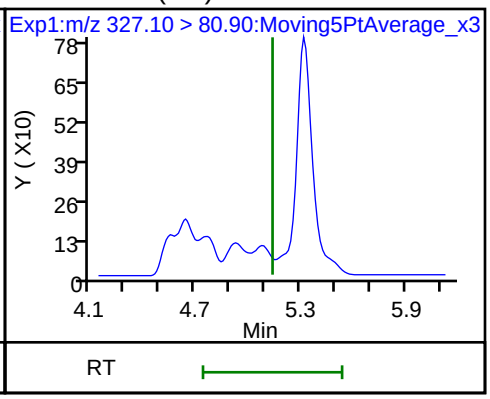
D 11 13C2-4:2FTS



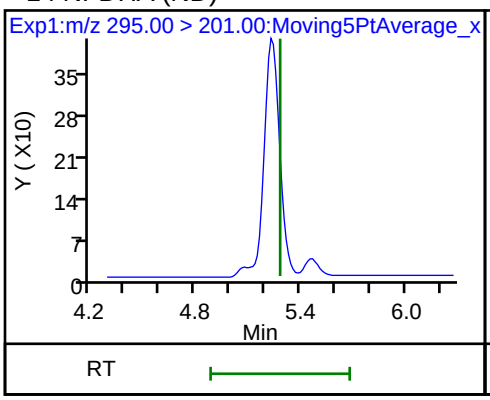
12 4:2FTS (ND)



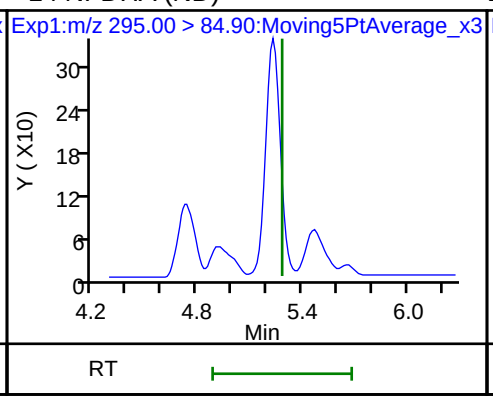
12 4:2FTS (ND)



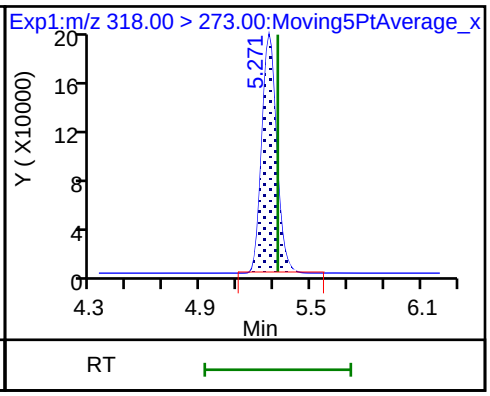
14 NFDHA (ND)



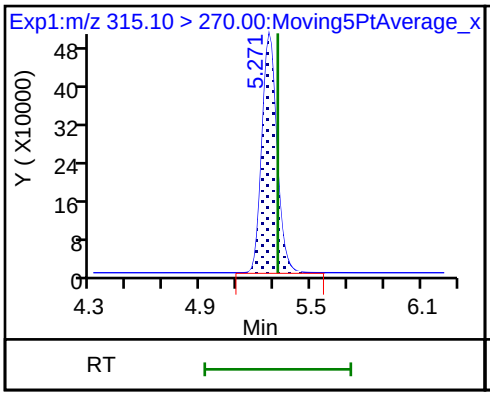
14 NFDHA (ND)



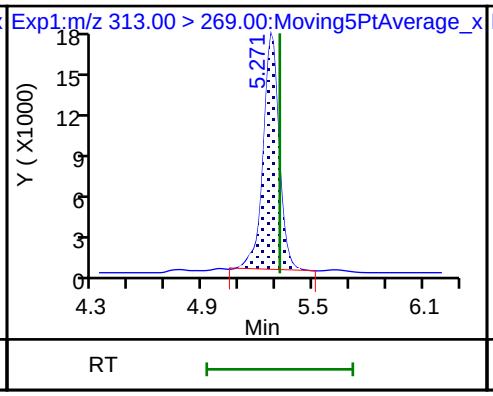
D 15 13C5 PFHxA



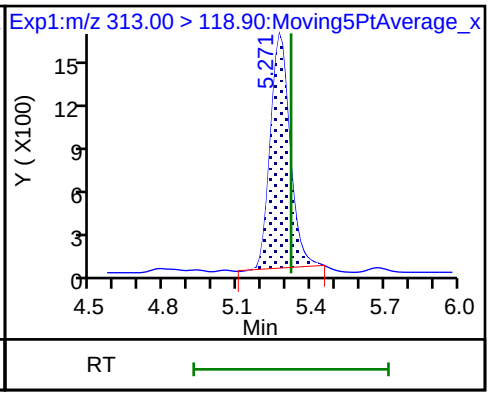
* 16 13C2 PFHxA



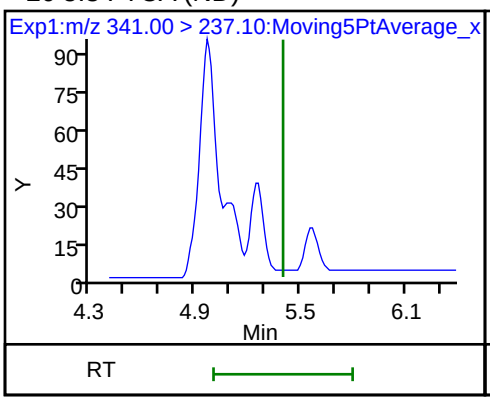
17 PFHxA



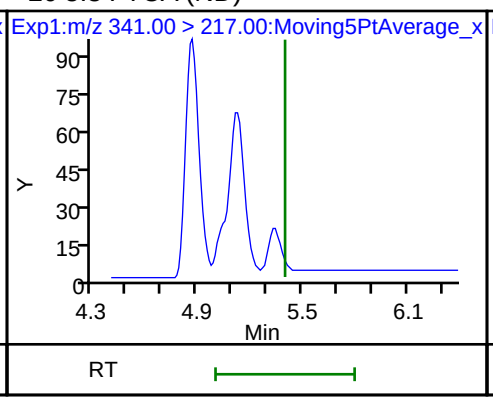
17 PFHxA



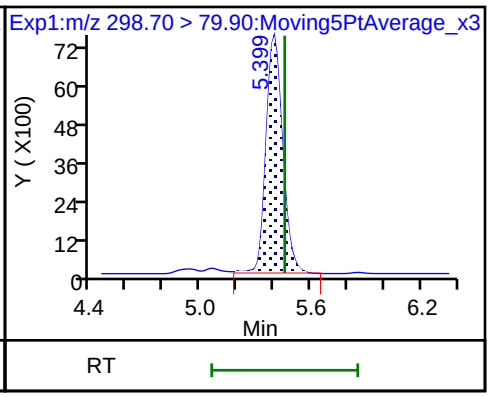
20 5:3 FTCA (ND)



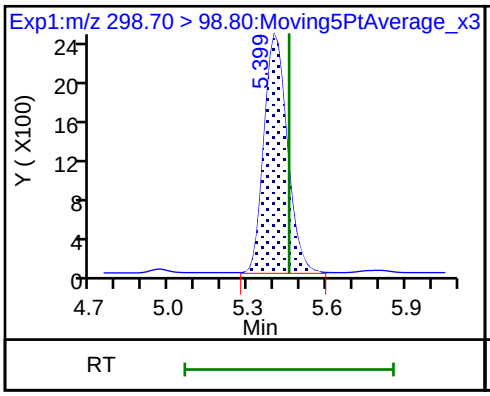
20 5:3 FTCA (ND)



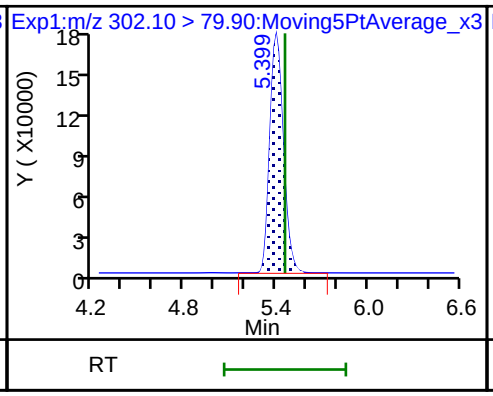
19 PFBS



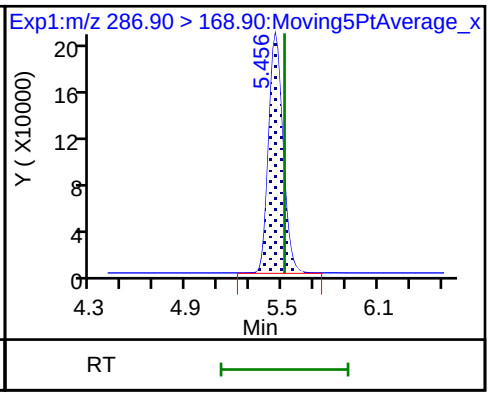
19 PFBS



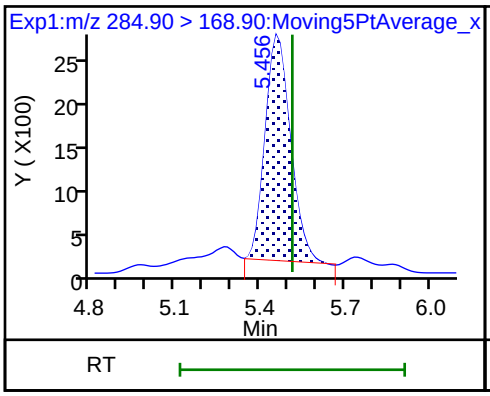
D 18 13C3 PFBS



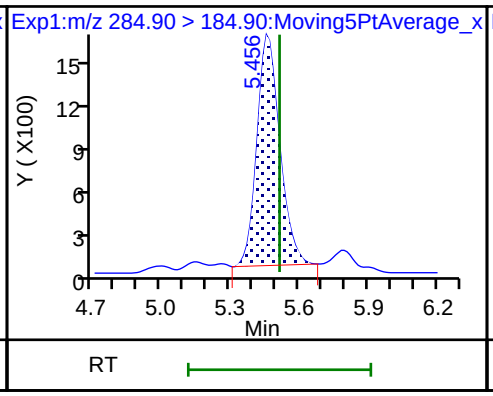
D 21 13C3 HFPO-DA



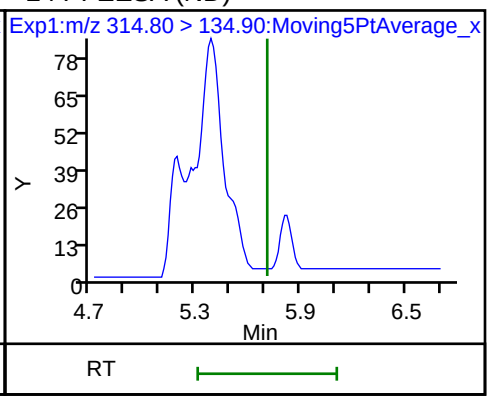
22 HFPO-DA



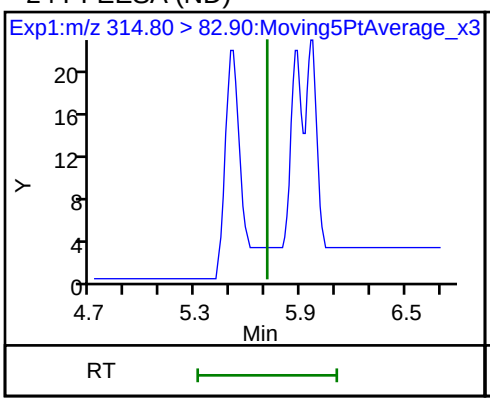
22 HFPO-DA



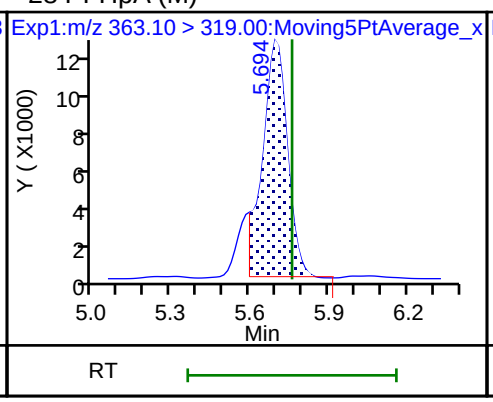
24 PFEESA (ND)



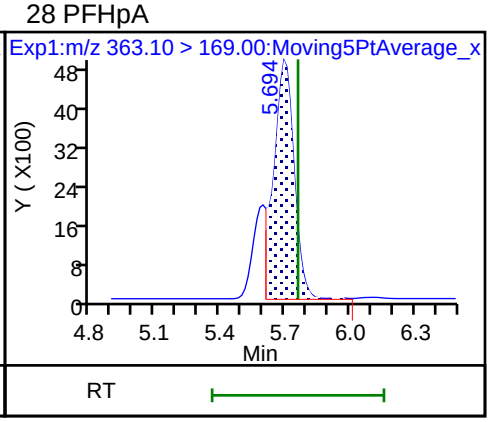
24 PFEESA (ND)



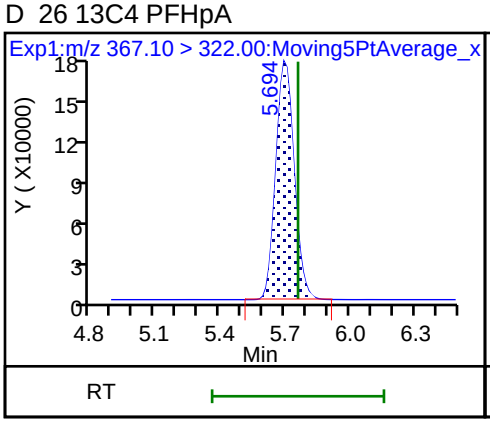
28 PFHpA (M)



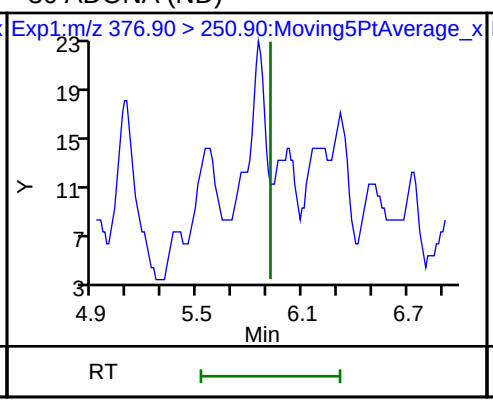
28 PFHpA



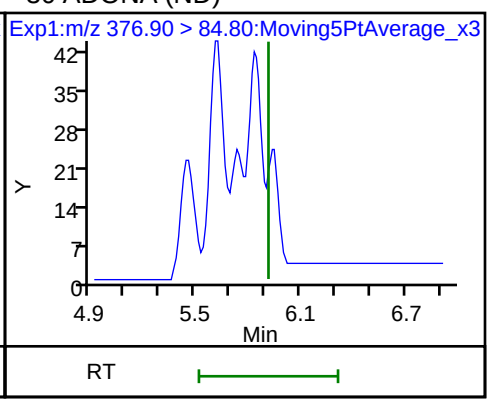
D 26 13C4 PFHpA



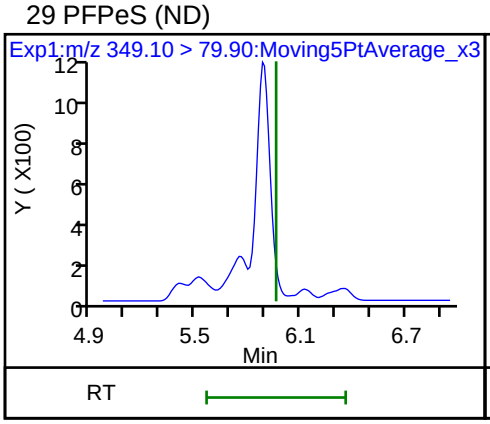
30 ADONA (ND)



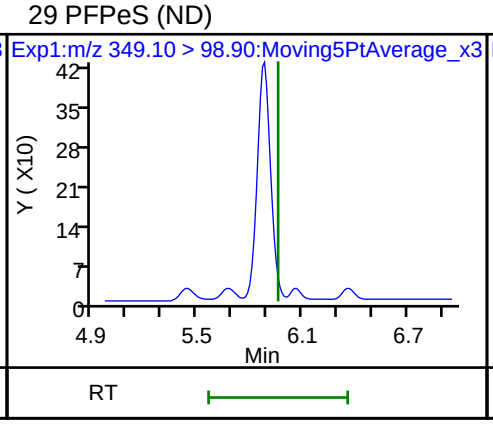
30 ADONA (ND)



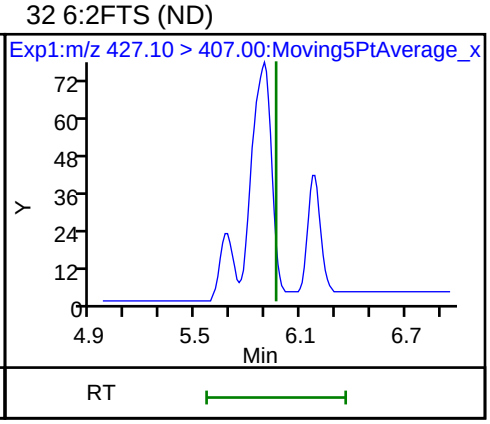
29 PFPeS (ND)



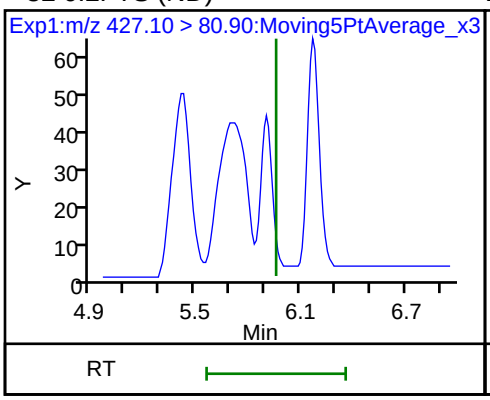
29 PFPeS (ND)



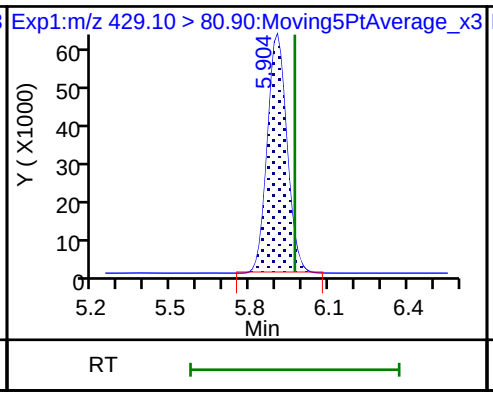
32 6:2FTS (ND)



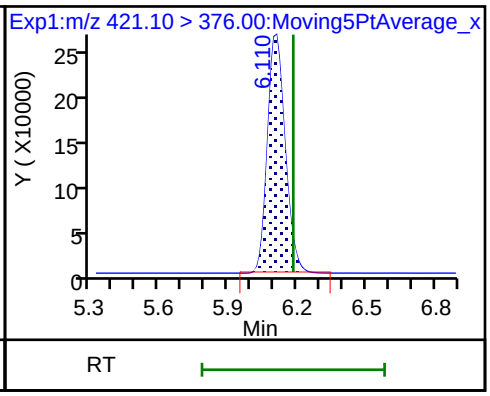
32 6:2FTS (ND)



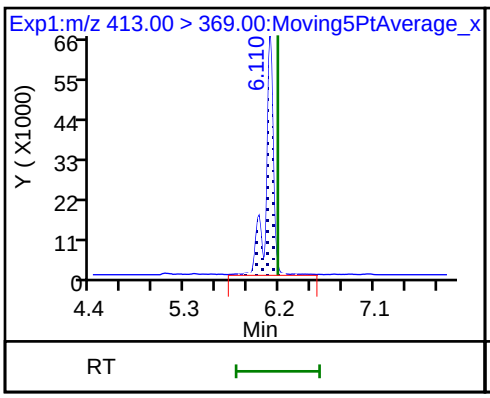
D 31 13C2-6:2FTS



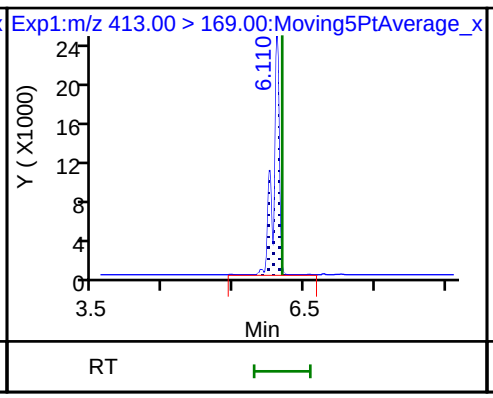
D 34 13C8 PFOA



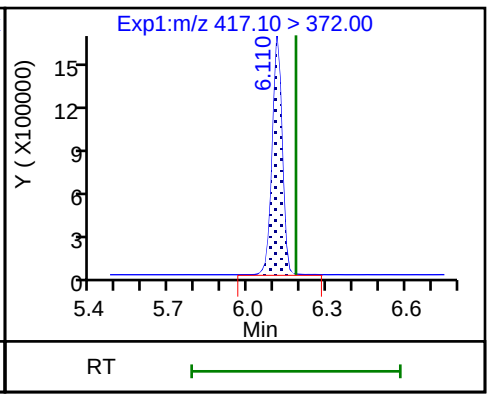
36 PFOA



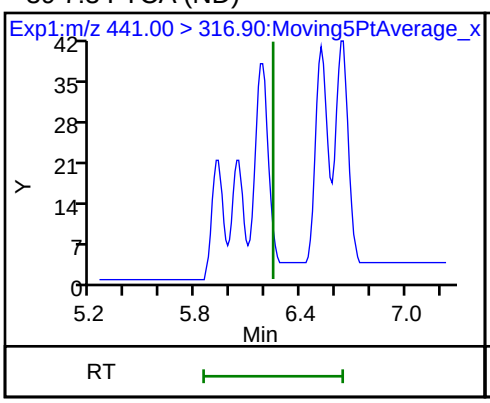
36 PFOA



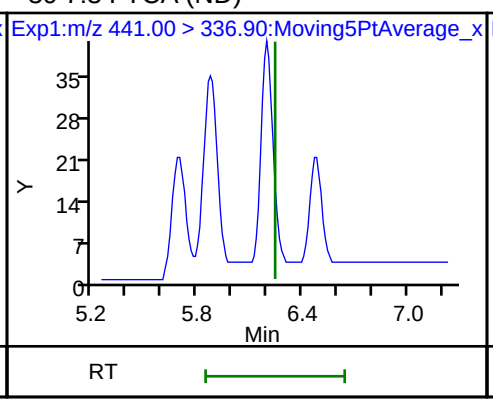
* 35 13C4 PFOA



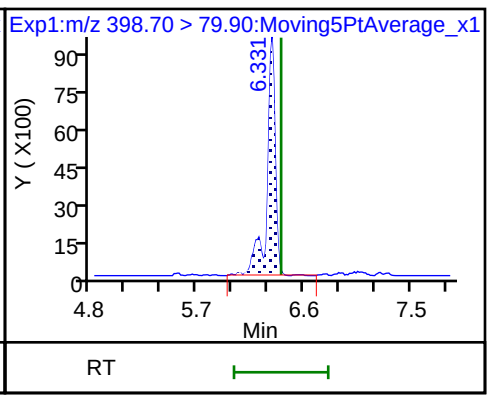
39 7:3 FTCA (ND)



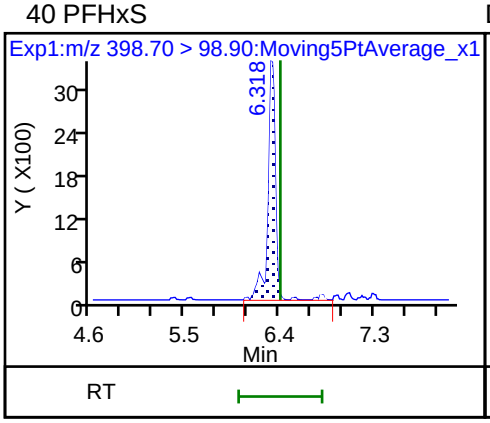
39 7:3 FTCA (ND)



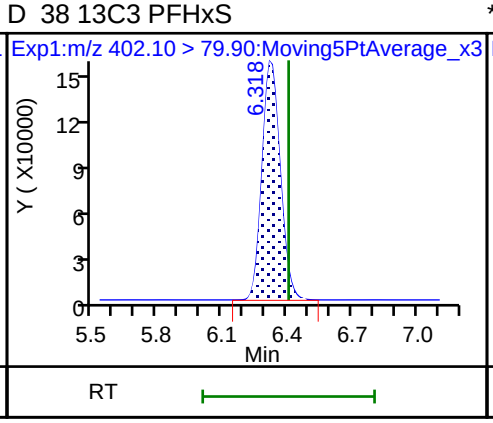
40 PFHxS



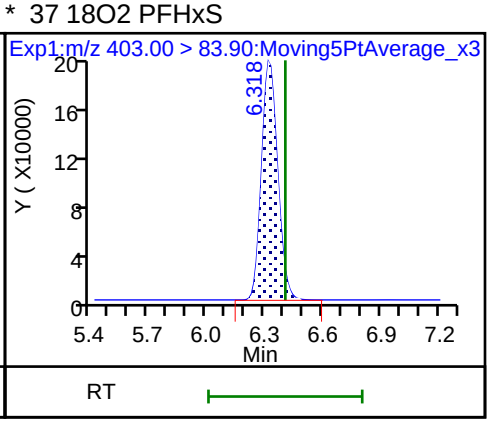
40 PFHxS



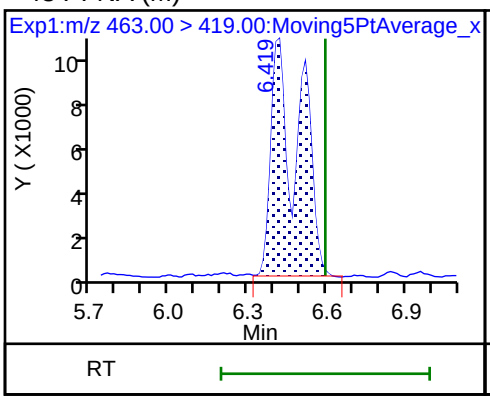
D 38 13C3 PFHxS



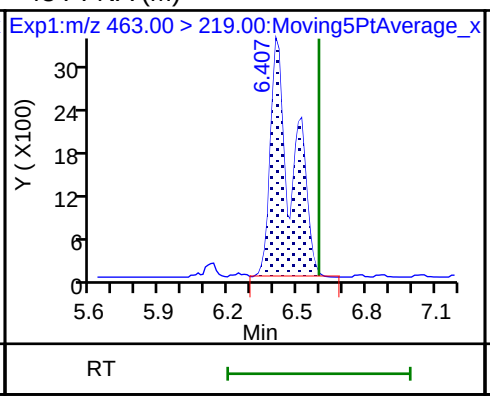
* 37 18O2 PFHxS



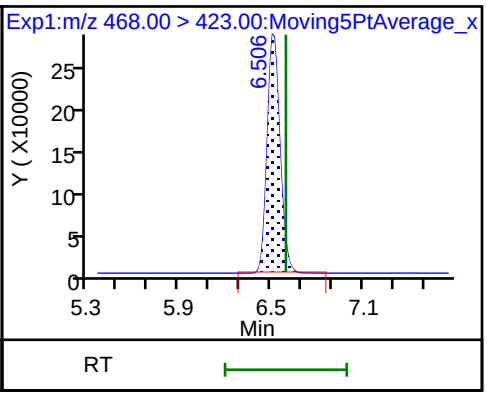
43 PFNA (M)



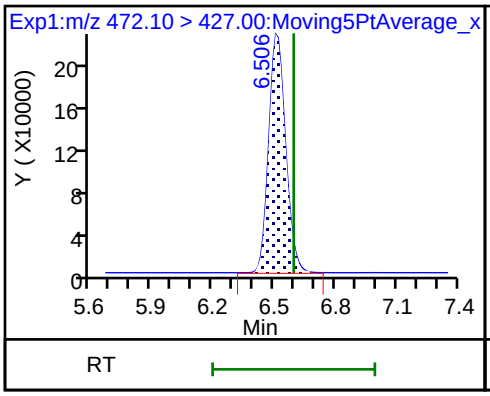
43 PFNA (M)



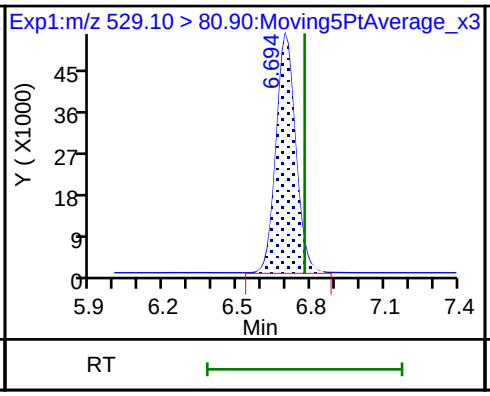
* 42 13C5 PFNA



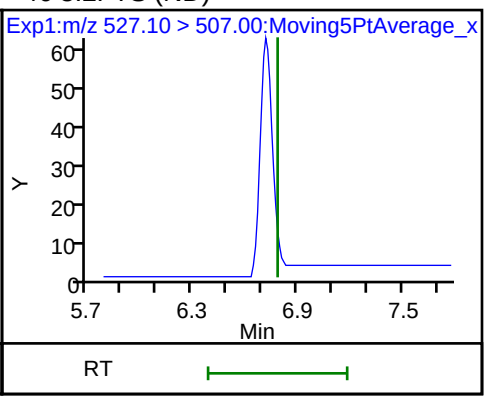
D 41 13C9 PFNA



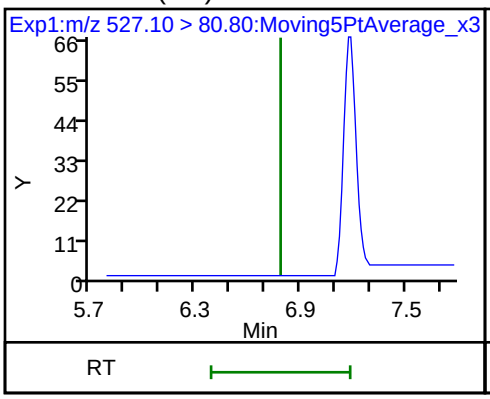
D 45 13C2-8:2FTS



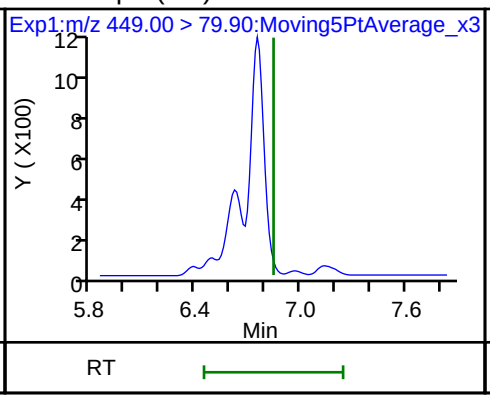
46 8:2FTS (ND)



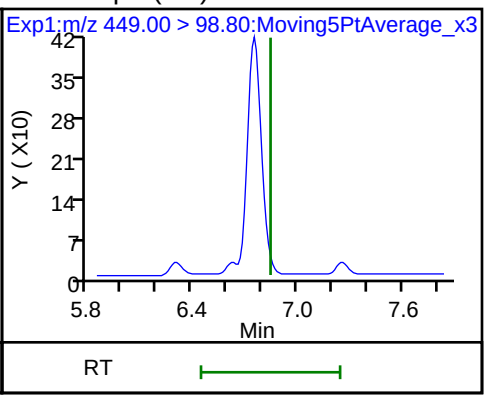
46 8:2FTS (ND)



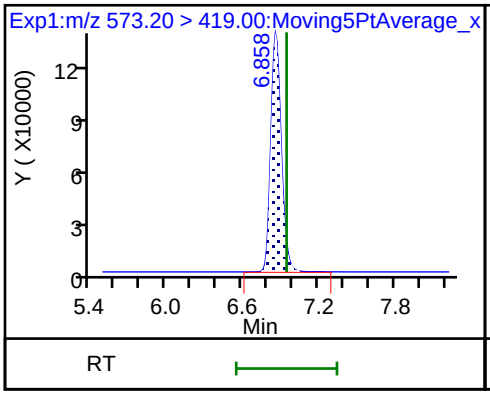
47 PFHpS (ND)



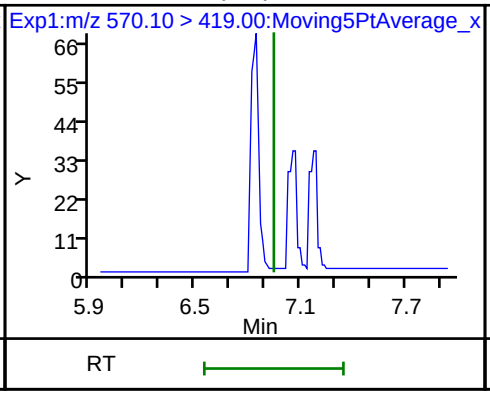
47 PFHpS (ND)



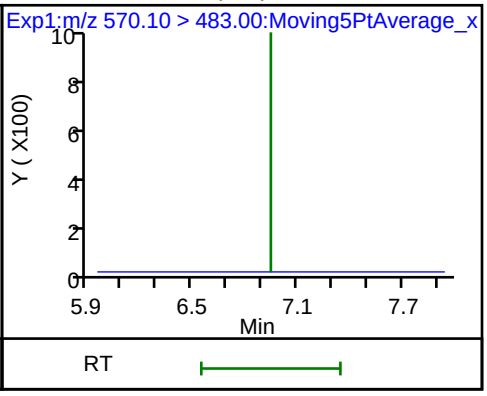
D 49 d3-NMeFOSAA



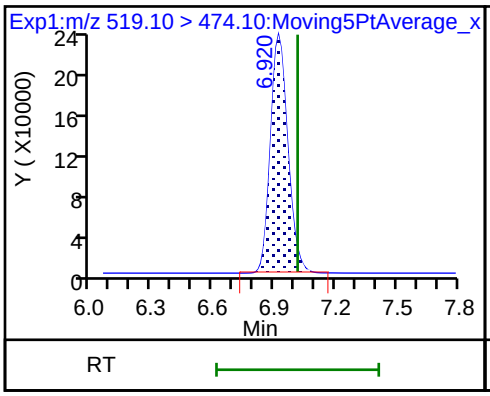
50 NMeFOSAA (ND)



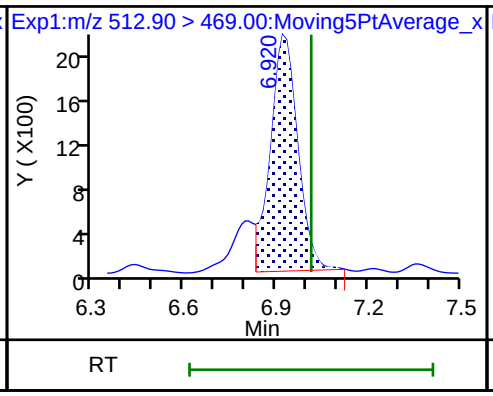
50 NMeFOSAA (ND)



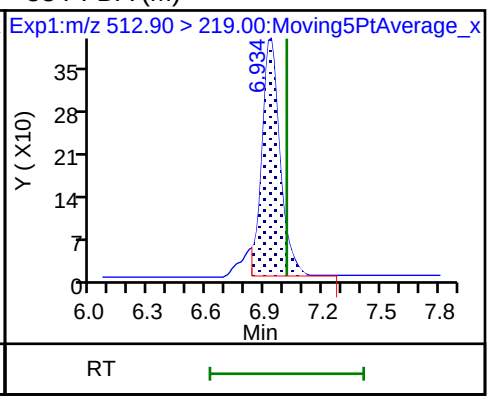
D 51 13C6 PFDA



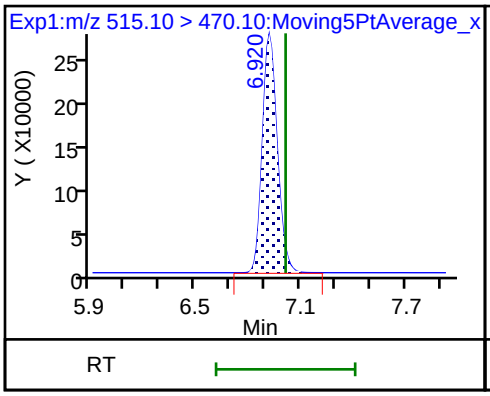
53 PFDA



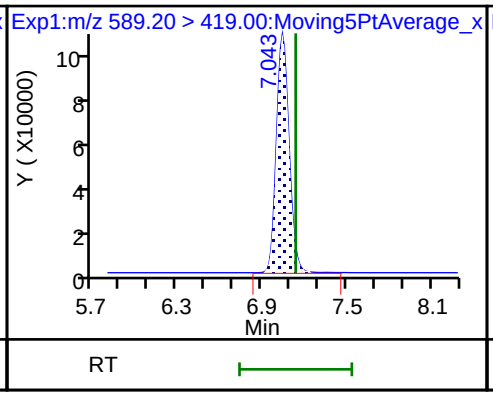
53 PFDA (M)



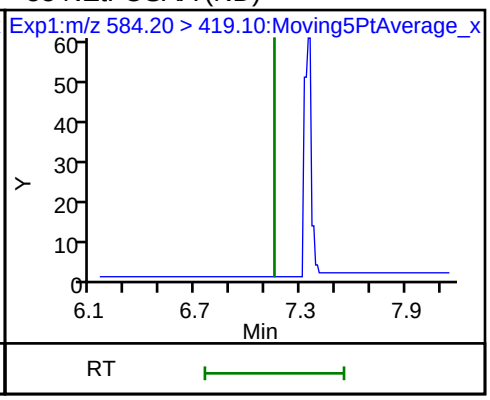
* 52 13C2 PFDA



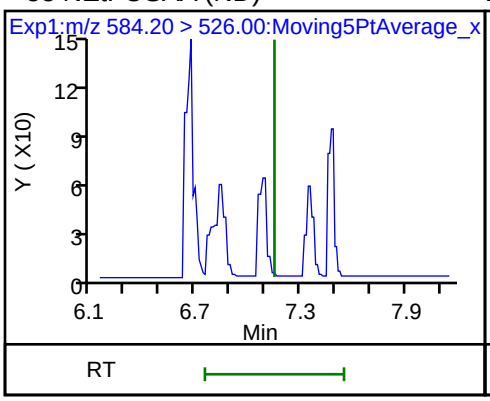
D 54 d5-NEtFOSAA



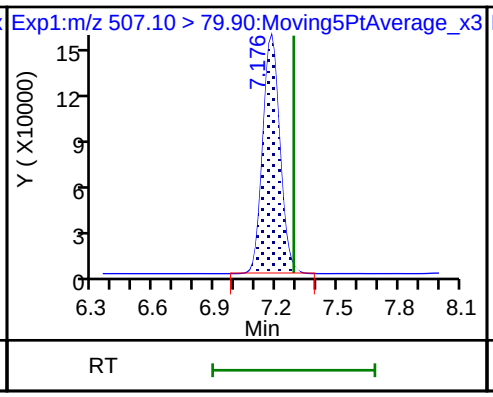
55 NEtFOSAA (ND)



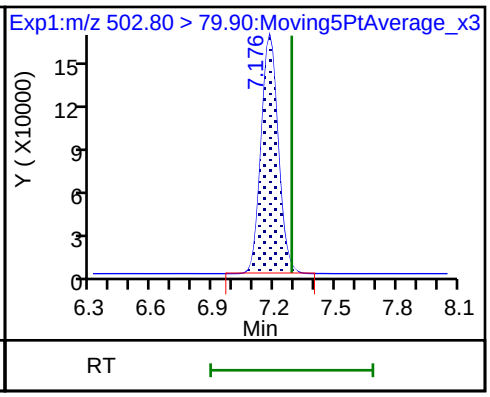
55 NEtFOSAA (ND)



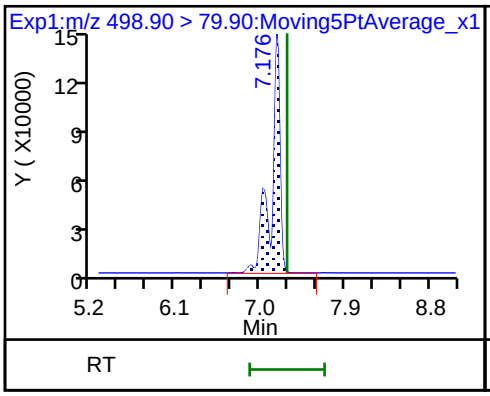
D 56 13C8 PFOS



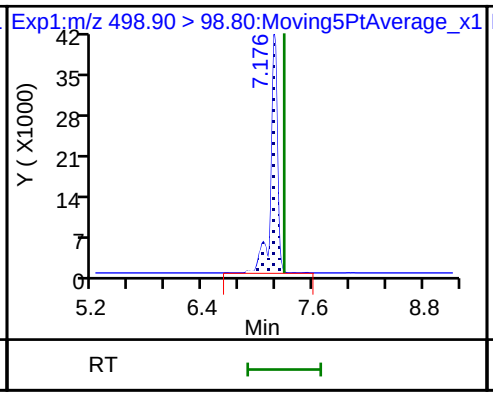
* 57 13C4 PFOS



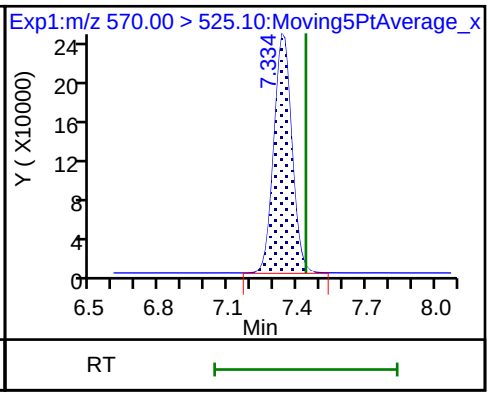
58 PFOS



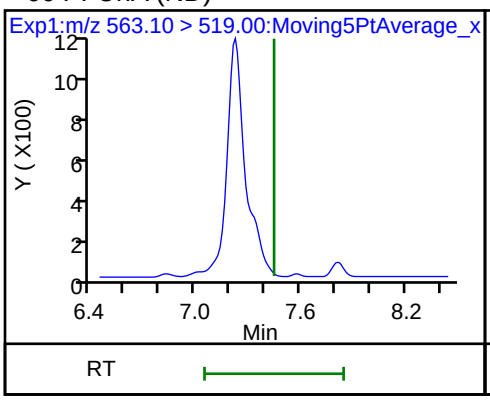
58 PFOS



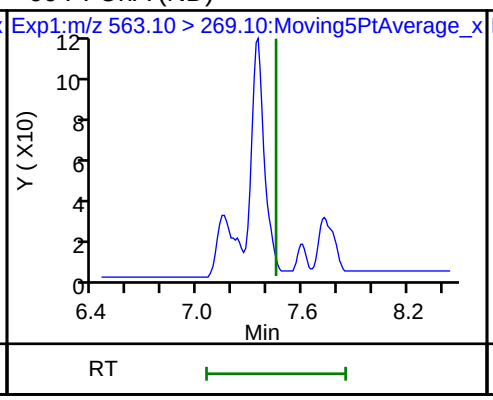
D 59 13C7 PFUnA



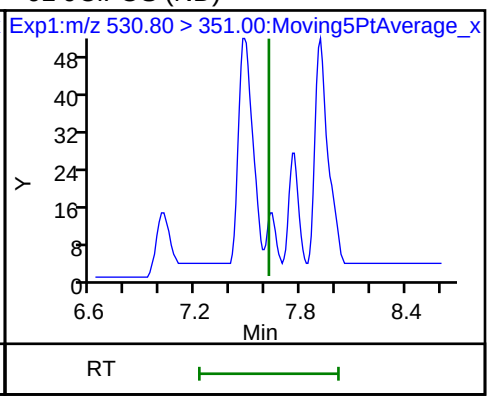
60 PFUnA (ND)



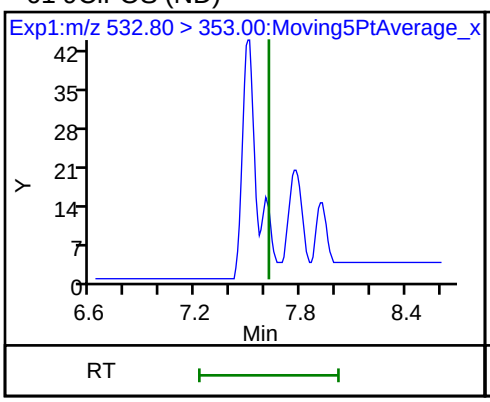
60 PFUnA (ND)



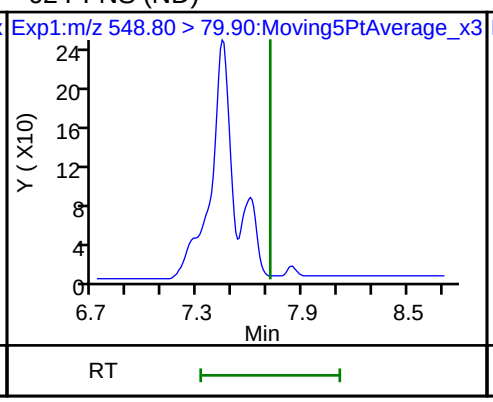
61 9ClFOS (ND)



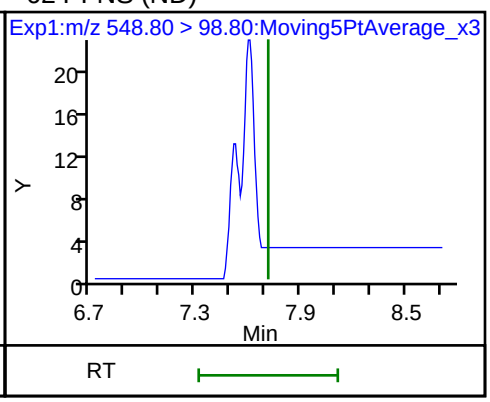
61 9ClFOS (ND)



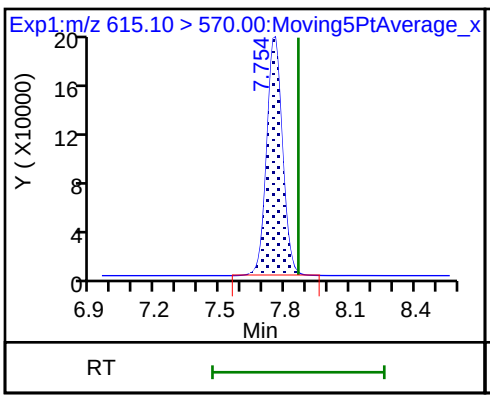
62 PFNS (ND)



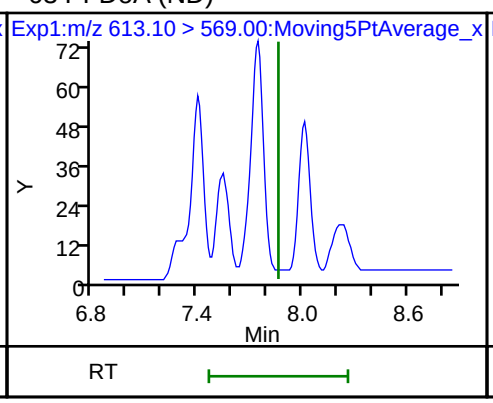
62 PFNS (ND)



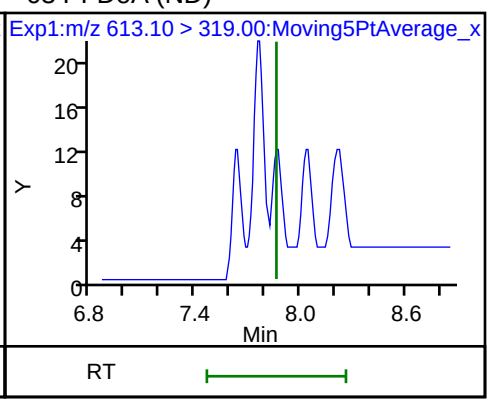
D 82 PFDoA



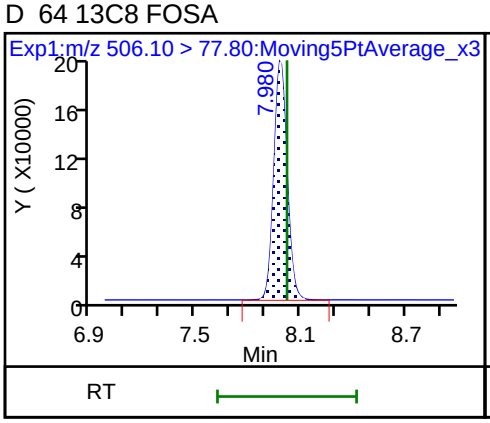
63 PFDoA (ND)



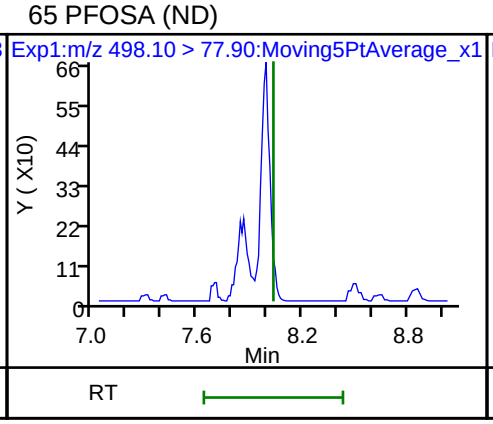
63 PFDoA (ND)



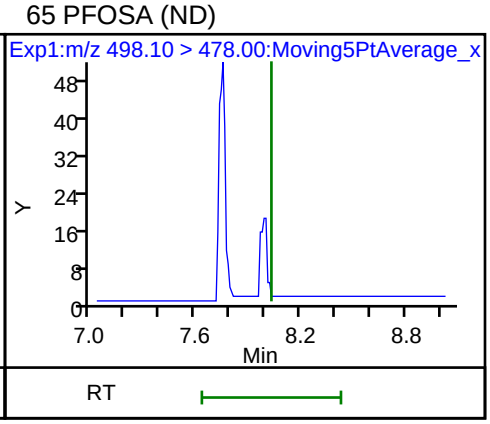
D 64 13C8 FOSA



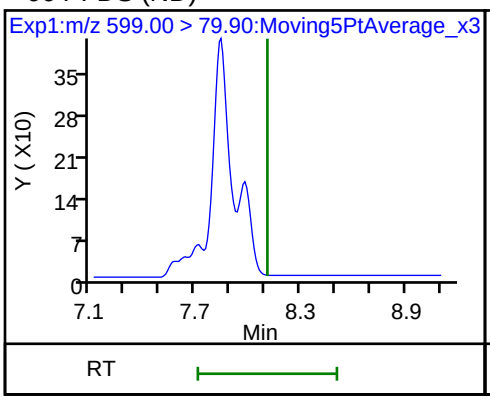
65 PFOSA (ND)



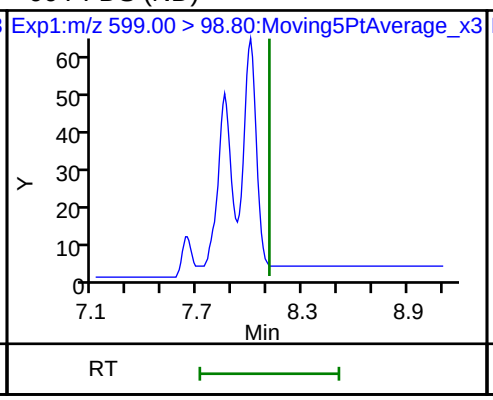
65 PFOSA (ND)



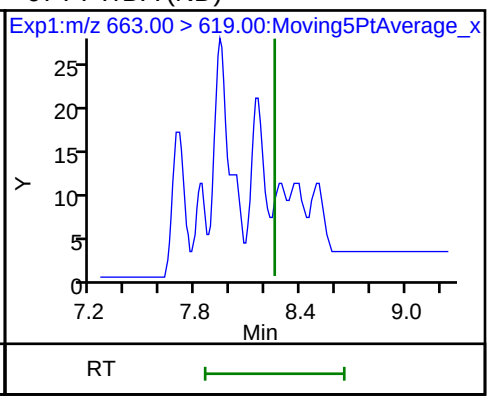
66 PFDS (ND)



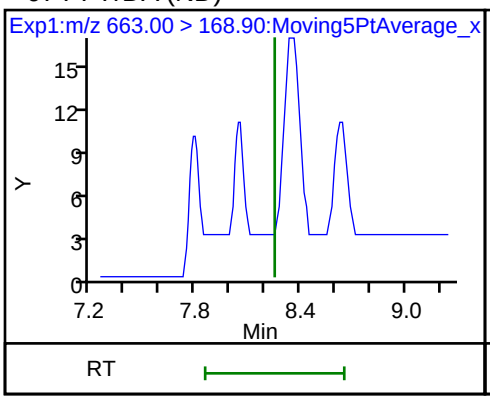
66 PFDS (ND)



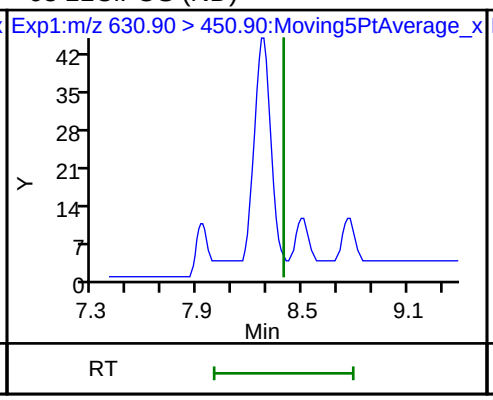
67 PFTrDA (ND)



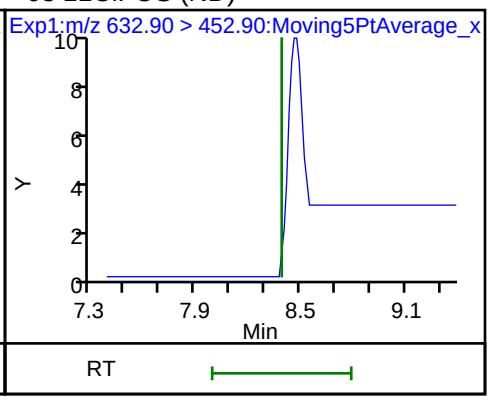
67 PFTrDA (ND)



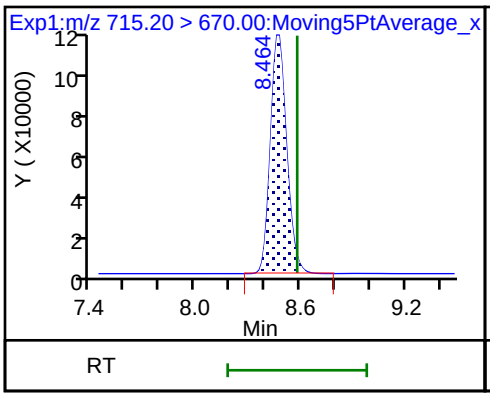
68 11ClFOS (ND)



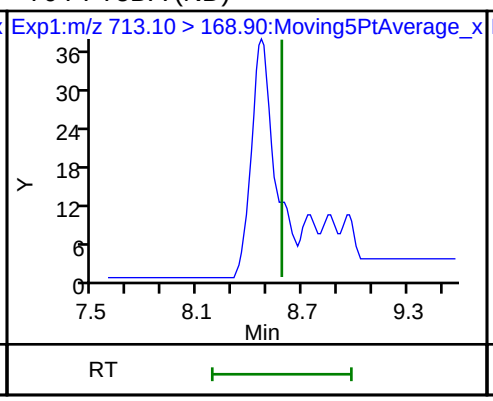
68 11ClFOS (ND)



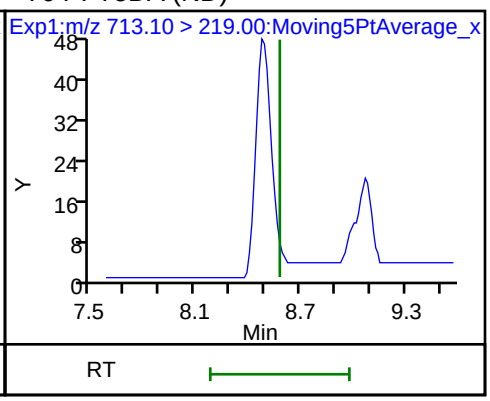
D 69 13C2 PFTeDA



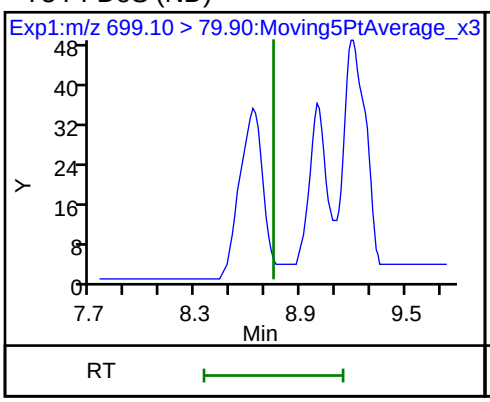
70 PFTeDA (ND)



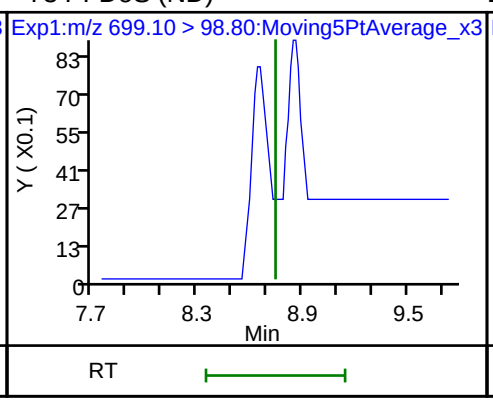
70 PFTeDA (ND)



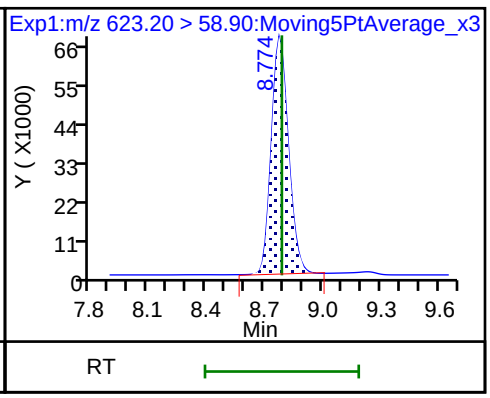
73 PFDoS (ND)



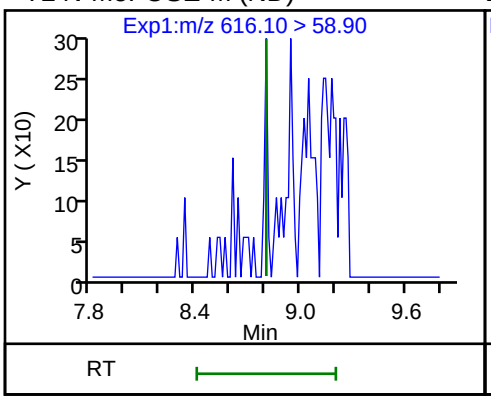
73 PFDoS (ND)



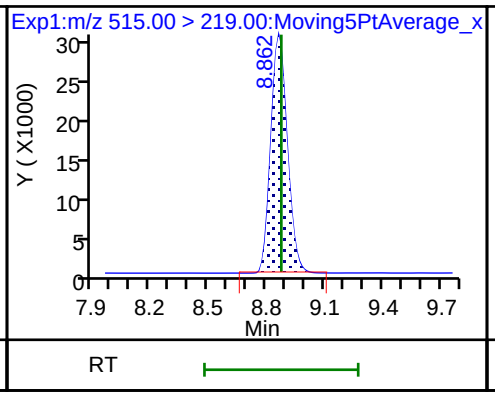
D 71 d7-N-Me-FOSE



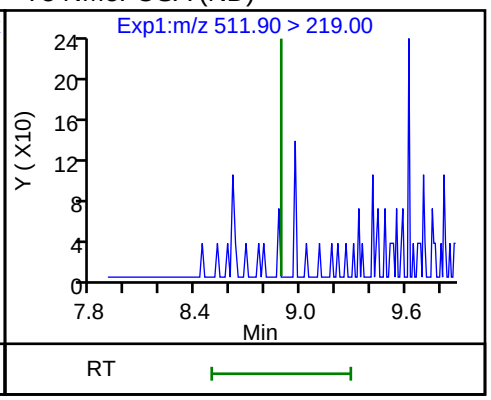
72 N-MeFOSE-M (ND)



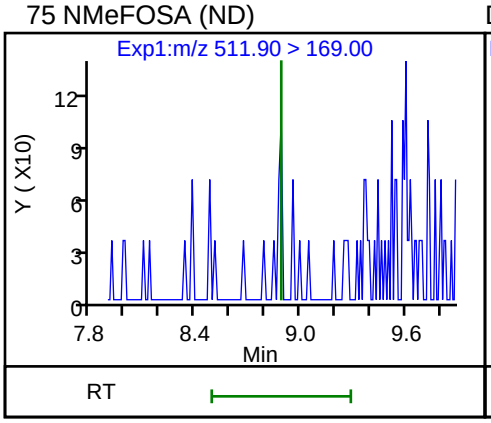
D 74 d3-NMePFOSA



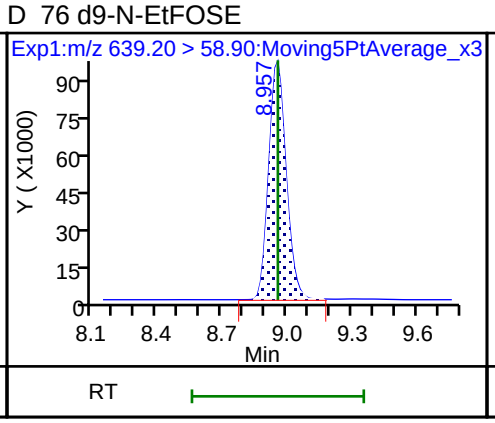
75 NMeFOSA (ND)



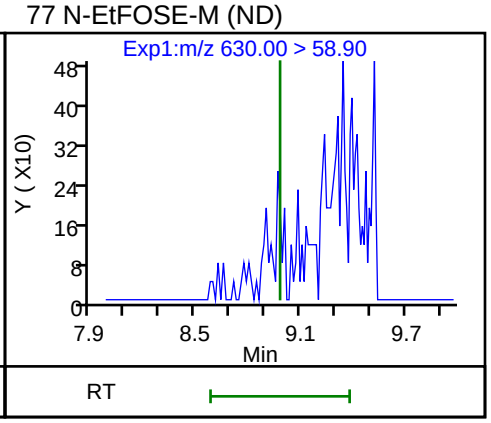
75 NMeFOSA (ND)



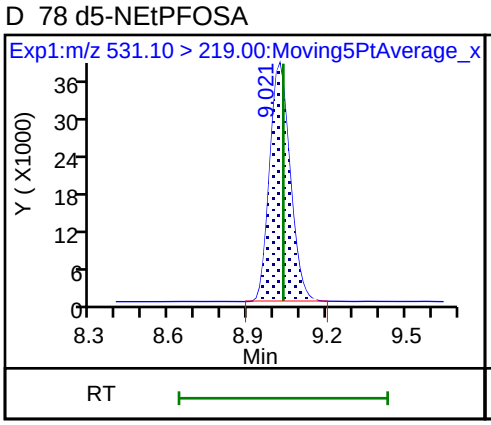
D 76 d9-N-EtFOSE



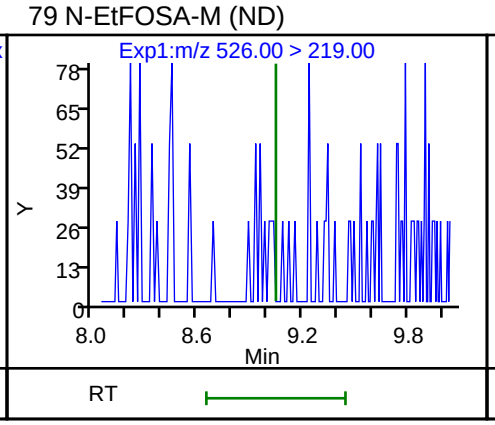
77 N-EtFOSE-M (ND)



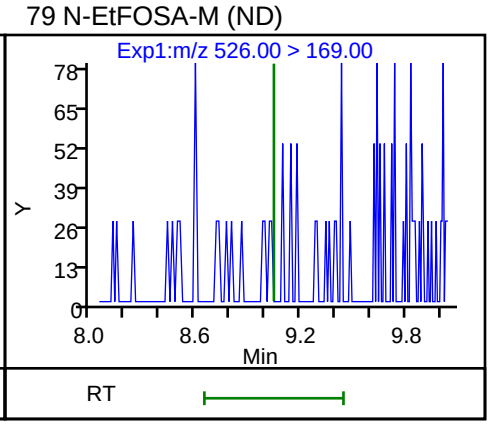
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

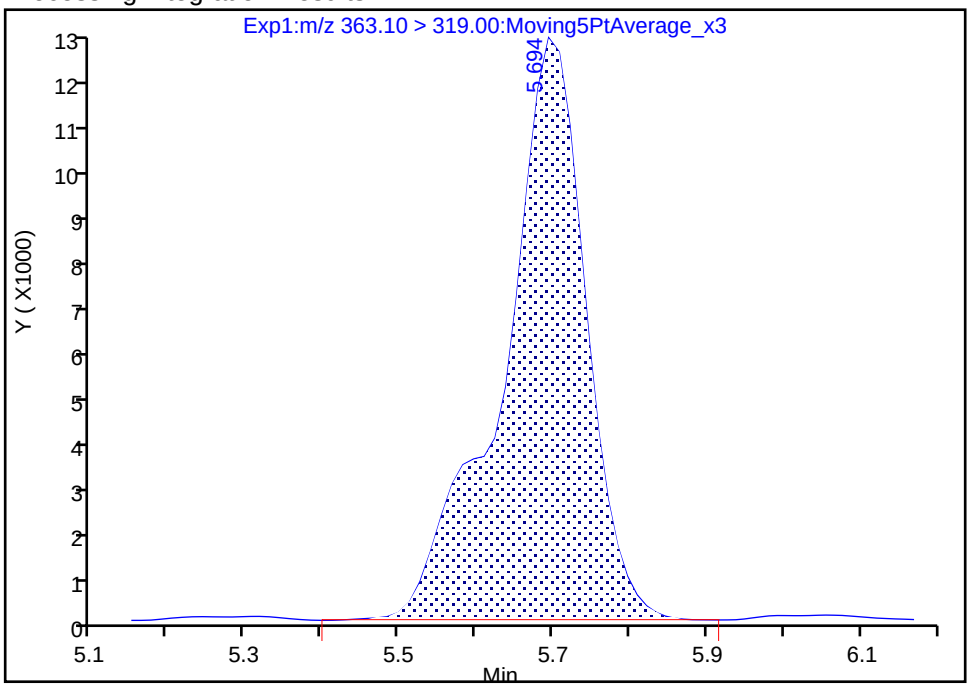
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-14.d				
Injection Date:	17-Feb-2025 18:55:50	Instrument ID:	30576		
Lims ID:	410-207884-A-4-B	Lab Sample ID:	410-207884-4		
Client ID:	VFCC-2-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	19	Worklist Smp#:	87
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 1

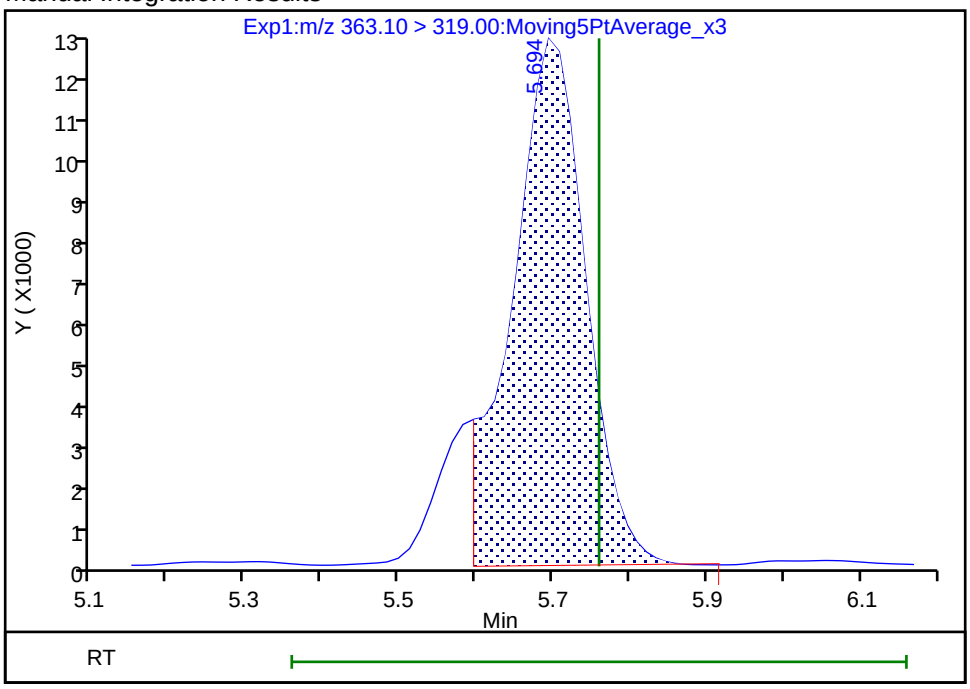
Processing Integration Results

RT: 5.69
Area: 96476
Amount: 0.193407
Amount Units: ng/ml



Manual Integration Results

RT: 5.69
Area: 84985
Amount: 0.170371
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:23:01 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

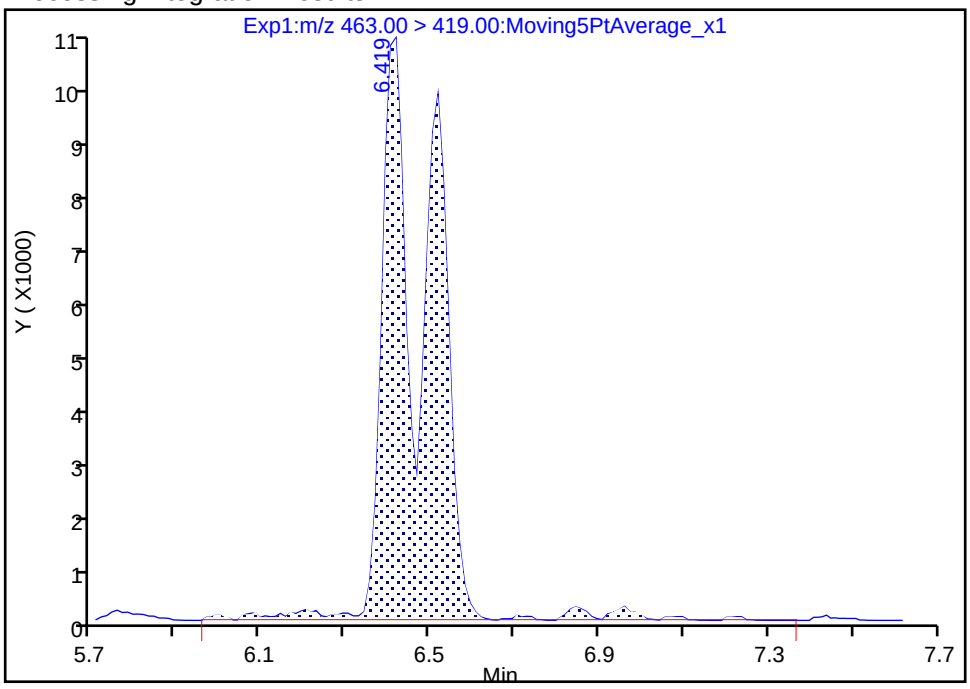
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-14.d				
Injection Date:	17-Feb-2025 18:55:50	Instrument ID:	30576		
Lims ID:	410-207884-A-4-B	Lab Sample ID:	410-207884-4		
Client ID:	VFCC-2-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	19	Worklist Smp#:	87
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

43 PFNA, CAS: 375-95-1

Signal: 1

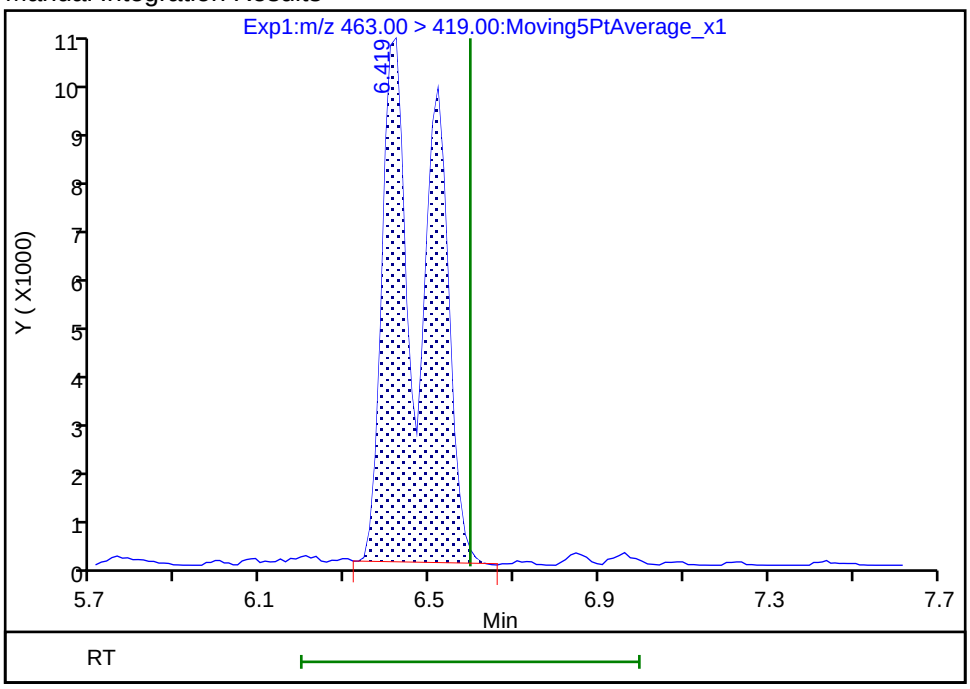
Processing Integration Results

RT: 6.42
Area: 78967
Amount: 0.146368
Amount Units: ng/ml



Manual Integration Results

RT: 6.42
Area: 73844
Amount: 0.136872
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:23:20 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

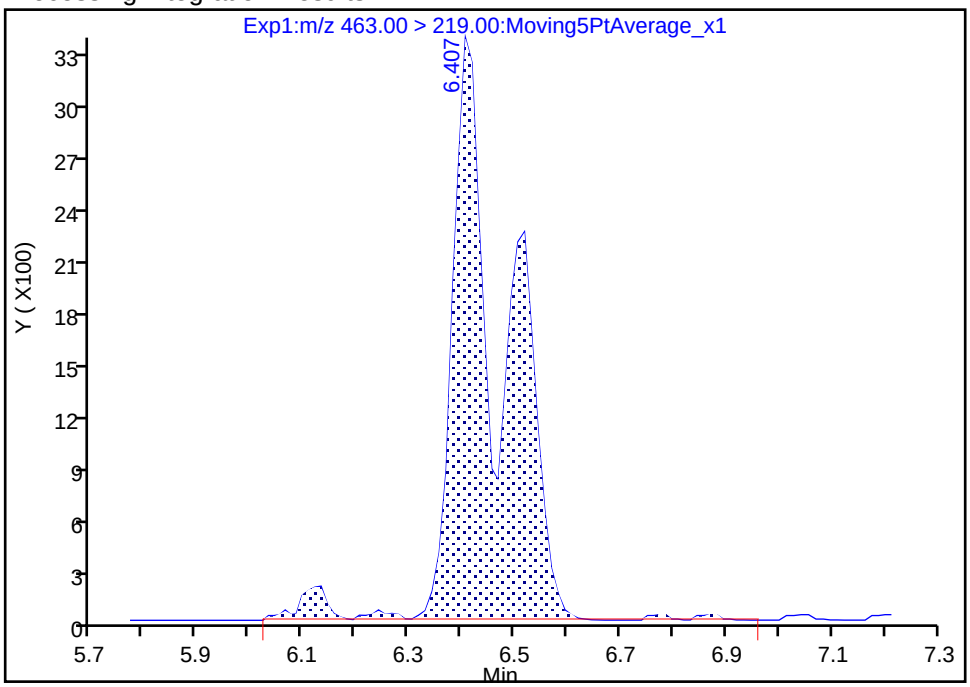
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-14.d				
Injection Date:	17-Feb-2025 18:55:50	Instrument ID:	30576		
Lims ID:	410-207884-A-4-B	Lab Sample ID:	410-207884-4		
Client ID:	VFCC-2-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	19	Worklist Smp#:	87
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

43 PFNA, CAS: 375-95-1

Signal: 2

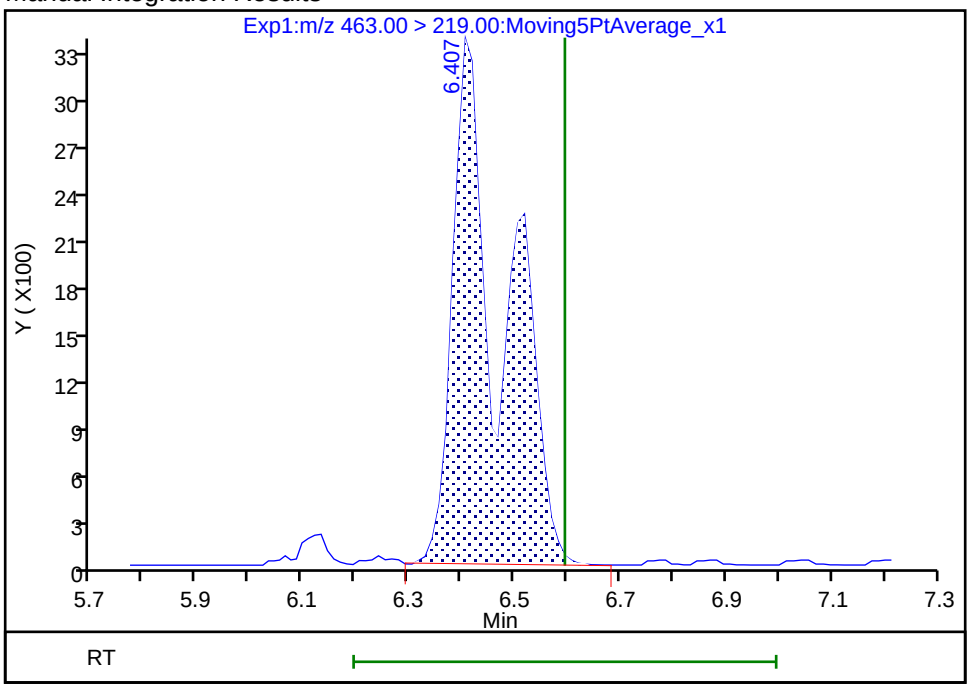
Processing Integration Results

RT: 6.41
Area: 23114
Amount: 0.146368
Amount Units: ng/ml



Manual Integration Results

RT: 6.41
Area: 21895
Amount: 0.136872
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:23:24 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

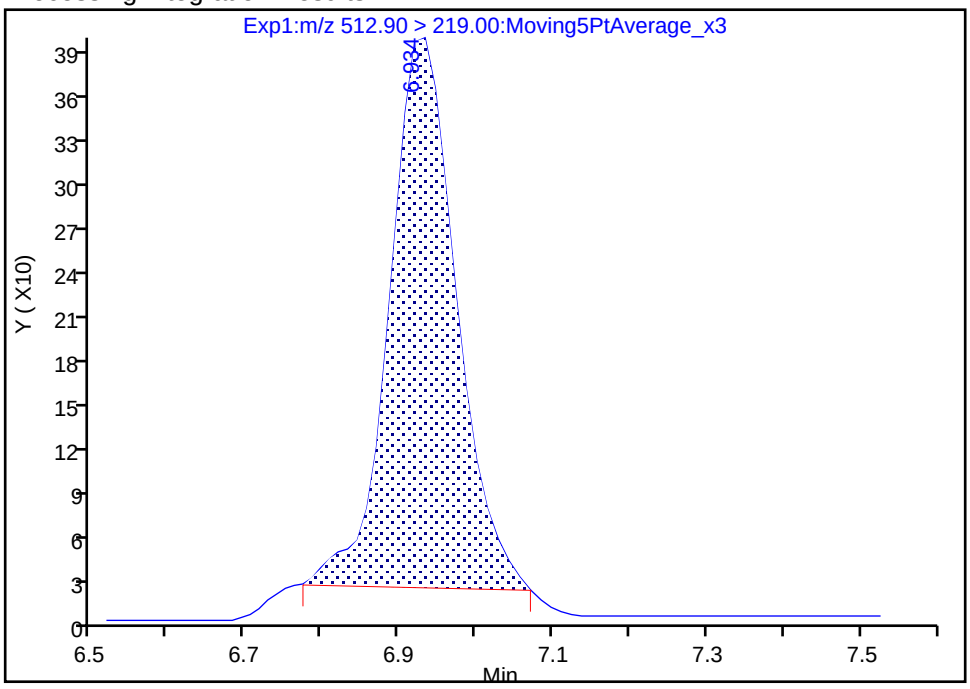
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-14.d				
Injection Date:	17-Feb-2025 18:55:50	Instrument ID:	30576		
Lims ID:	410-207884-A-4-B	Lab Sample ID:	410-207884-4		
Client ID:	VFCC-2-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	19	Worklist Smp#:	87
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

53 PFDA, CAS: 335-76-2

Signal: 2

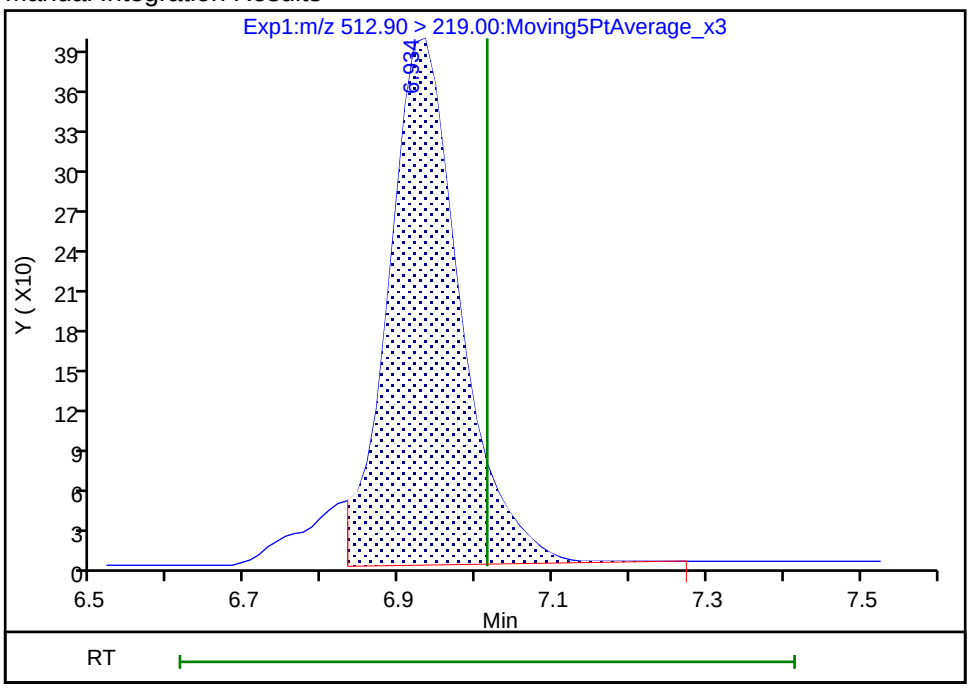
Processing Integration Results

RT: 6.93
Area: 2282
Amount: 0.021970
Amount Units: ng/ml



Manual Integration Results

RT: 6.93
Area: 2577
Amount: 0.021970
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:23:45 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: VFCC-3-021225
Lab Sample ID: 410-207884-5

Matrix: Water
Lab File ID: 25FEB17W-15.d

Analysis Method: 1633
Date Collected: 02/12/2025 13:20

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 139.7(mL)
Date Analyzed: 02/17/2025 19:09

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	5.4		3.6	0.98
2706-90-3	Perfluoropentanoic acid	9.0		1.8	0.54
307-24-4	Perfluorohexanoic acid	8.2		1.8	0.45
375-85-9	Perfluoroheptanoic acid	5.8		1.8	0.72
335-67-1	Perfluorooctanoic acid	22		1.8	0.81
375-95-1	Perfluorononanoic acid	6.8		1.8	0.45
335-76-2	Perfluorodecanoic acid	ND		1.8	0.45
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid	2.7		1.8	0.45
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid	2.7		1.8	0.72
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid	26		1.8	0.45
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.45
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.45
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.54
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.6	0.89
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.6	0.89
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.6	0.89
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.45
31506-32-8	NMeFOSA	ND		1.8	0.45
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.45
2355-31-9	NMeFOSAA	ND		1.8	0.45
2991-50-6	NEtFOSAA	ND		1.8	0.45

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: VFCC-3-021225
Lab Sample ID: 410-207884-5

Matrix: Water
Lab File ID: 25FEB17W-15.d

Analysis Method: 1633
Date Collected: 02/12/2025 13:20

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 139.7(mL)
Date Analyzed: 02/17/2025 19:09

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2
13252-13-6	HFPO-DA	ND		1.8	0.67
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.45
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.45
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.45
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.45
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.45
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.45
113507-82-7	PFEESA	ND		1.8	0.45
356-02-5	3:3 FTCA	ND		3.6	0.89
914637-49-3	5:3 FTCA	ND		8.9	2.5
812-70-4	7:3 FTCA	ND		8.9	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: VFCC-3-021225
Lab Sample ID: 410-207884-5

Matrix: Water
Lab File ID: 25FEB17W-15.d

Analysis Method: 1633
Date Collected: 02/12/2025 13:20

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 139.7(mL)
Date Analyzed: 02/17/2025 19:09

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	79.3		5-130
STL01893	13C5 PFPeA	100	cn	40-130
STL02577	13C5 PFHxA	98.5	cn	40-130
STL01892	13C4 PFHpA	102	cn	40-130
STL01052	13C8 PFOA	76.4		40-130
STL02578	13C9 PFNA	73.7		40-130
STL02579	13C6 PFDA	70.6		40-130
STL02580	13C7 PFUnA	76.5	cn	30-130
STL02116	13C2 PFTeDA	73.0	cn	10-130
STL02337	13C3 PFBS	76.5		40-135
STL02581	13C3 PFHxS	77.2		40-130
STL01054	13C8 PFOS	81.7		40-130
STL01056	13C8 FOSA	73.0		40-130
STL02118	d3-NMeFOSAA	82.5		40-170
STL02117	d5-NEtFOSAA	81.4		25-135
STL02395	M2-4:2 FTS	66.7		40-200
STL02279	M2-6:2 FTS	55.9		40-200
STL02280	M2-8:2 FTS	63.3		40-300
STL02255	13C3 HFPO-DA	108	cn	40-130
STL02277	d7-N-MeFOSE-M	81.6		10-130
STL02278	d9-N-EtFOSE-M	77.7		10-130
STL02704	d5-NEtPFOSA	54.3		10-130
STL02705	d3-NMePFOSA	53.8		10-130
STL00998	13C2 PFDoA	72.9		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d
Lims ID: 410-207884-A-5-B
Client ID: VFCC-3-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 19:09:25 ALS Bottle#: 20 Worklist Smp#: 88
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-5-B
Misc. Info.: Plate: 2 Rack: 1 410-0138392-088
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 19:41:04 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 19:41:04
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PFBA										
212.80 > 168.90	4.171	4.216	-0.045	1.000	84532	0.1512			635	
D 3 13C4-PFBA										
216.80 > 171.90	4.171	4.224	-0.053	0.998	1268196	1.59		79.3	64074	
* 4 13C3PFBA										
216.00 > 172.00	4.180	4.224	-0.044		1497478	2.00			25331	
D 8 13C5 PFPeA										
268.30 > 223.00	4.819	4.866	-0.047	0.915	694671	2.00		100	46389	
9 PFPA										M
263.00 > 219.00	4.819	4.866	-0.047	1.000	130931	0.2510			2622	M
D 11 13C2-4:2FTS										
329.10 > 80.90	5.088	5.139	-0.051	0.805	304315	3.13		66.7	11304	
D 15 13C5 PFHxA										
318.00 > 273.00	5.270	5.318	-0.048	1.000	990473	1.97		98.5	57792	
* 16 13C2 PFHxA										
315.10 > 270.00	5.270	5.318	-0.048		2842969	5.00			166188	
17 PFHxA										
313.00 > 269.00	5.270	5.318	-0.048	1.000	105655	0.2292	Target=10.68		3384	
313.00 > 118.90	5.270	5.318	-0.048	1.000	9192		11.49(5.34-16.02)		514	
19 PFBS										
298.70 > 79.90	5.400	5.456	-0.056	1.000	39048	0.0768	Target=2.96		1544	
298.70 > 98.80	5.400	5.456	-0.056	1.000	12019		3.25(1.48-4.44)		618	
D 18 13C3 PFBS										
302.10 > 79.90	5.400	5.456	-0.056	0.855	963830	1.43		76.5	51981	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.457	5.514	-0.057	1.035	1345766	2.17		108	72675	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 PFHpA										M
363.10 > 319.00	5.695	5.760	-0.065	1.000	81202	0.1634	Target=2.56		1168	M
363.10 > 169.00	5.695	5.760	-0.065	1.000	33878		2.40(1.28-3.85)		766	M
D 26 13C4 PFHpA										
367.10 > 322.00	5.695	5.760	-0.065	1.081	1042748	2.05		102	58724	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.893	5.971	-0.078	0.933	270904	2.66		55.9	17229	
D 34 13C8 PFOA										
421.10 > 376.00	6.098	6.183	-0.085	0.998	1433490	1.53		76.4	67504	
36 PFOA										
413.00 > 369.00	6.110	6.183	-0.073	1.002	356966	0.6138	Target=2.35		19104	
413.00 > 169.00	6.110	6.183	-0.073	1.002	142668		2.50(1.18-3.53)		26136	
* 35 13C4 PFOA										
417.10 > 372.00	6.110	6.183	-0.073		4398617	5.00			582384	
* 37 18O2 PFHxS										
403.00 > 83.90	6.319	6.407	-0.088		1166655	1.89			67341	
40 PFHxS										M
398.70 > 79.90	6.319	6.407	-0.088	1.000	29952	0.0743	Target=3.23		2145	M
398.70 > 98.90	6.331	6.407	-0.076	1.002	7975		3.76(1.62-4.85)		1564	M
D 38 13C3 PFHxS										
402.10 > 79.90	6.319	6.407	-0.088	1.000	925289	1.46		77.2	40322	
* 42 13C5 PFNA										
468.00 > 423.00	6.506	6.595	-0.089		1622532	2.00			70178	
D 41 13C9 PFNA										
472.10 > 427.00	6.506	6.595	-0.089	1.000	1224047	1.47		73.7	52899	
43 PFNA										
463.00 > 419.00	6.519	6.595	-0.076	1.002	95431	0.1896	Target=2.70		13259	
463.00 > 219.00	6.519	6.595	-0.076	1.002	26023		3.67(1.35-4.05)		3533	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.694	6.774	-0.080	1.059	266919	3.04		63.3	16137	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.858	6.947	-0.089	0.956	729802	4.12		82.5	42183	
D 51 13C6 PFDA										
519.10 > 474.10	6.920	7.014	-0.094	1.000	1198437	1.41		70.6	66350	
* 52 13C2 PFDA										
515.10 > 470.10	6.920	7.014	-0.094		1609530	2.00			90138	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.043	7.137	-0.094	0.981	591243	4.07		81.4	31290	
D 56 13C8 PFOS										
507.10 > 79.90	7.176	7.285	-0.109	1.000	812924	1.56		81.7	34543	
* 57 13C4 PFOS										
502.80 > 79.90	7.176	7.285	-0.109		971446	1.91			55277	
58 PFOS										
498.90 > 79.90	7.176	7.285	-0.109	1.000	390426	0.7219	Target=4.45		59122	
498.90 > 98.80	7.176	7.285	-0.109	1.000	85008		4.59(2.23-6.68)		16970	
D 59 13C7 PFUnA										
570.00 > 525.10	7.334	7.438	-0.104	1.060	1211198	1.53		76.5	74210	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 82 PFDoA										
615.10 > 570.00	7.754	7.862	-0.108	1.121	971199	1.46		72.9	63606	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	8.022	-0.031	1.113	904487	1.46		73.0	42259	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.478	8.581	-0.103	1.225	687394	1.46		73.0	35232	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.789	8.789	0.0	1.225	393540	4.08		81.6	7850	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.862	8.876	-0.014	1.235	175015	1.08		53.8	9705	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.248	486996	3.88		77.7	14585	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.257	199171	1.09		54.3	12238	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 19:41:14 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d

Injection Date: 17-Feb-2025 19:09:25 Instrument ID: 30576

Lims ID: 410-207884-A-5-B Lab Sample ID: 410-207884-5

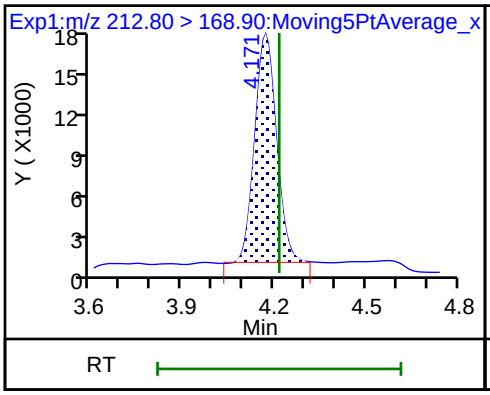
Client ID: VFCC-3-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 20 Worklist Smp#: 88

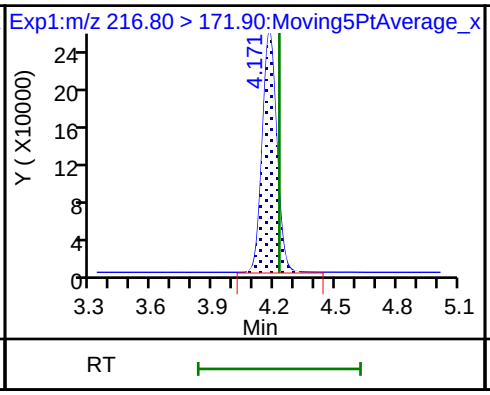
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

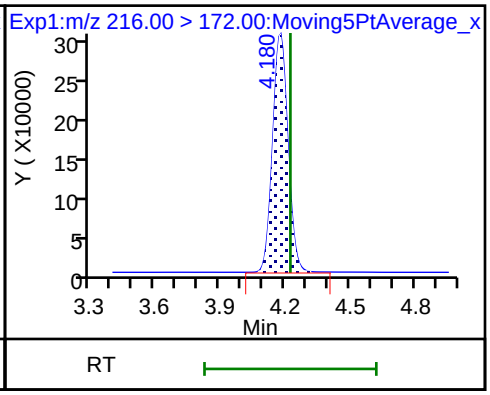
5 PFBA



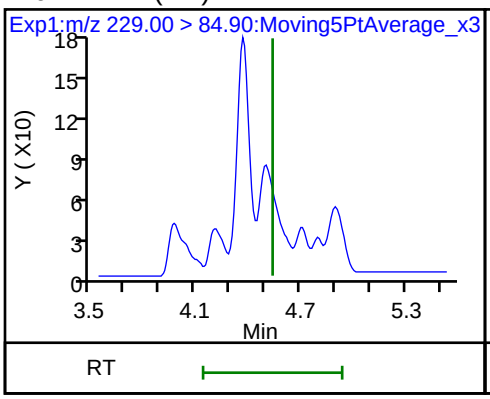
D 3 13C4-PFBA



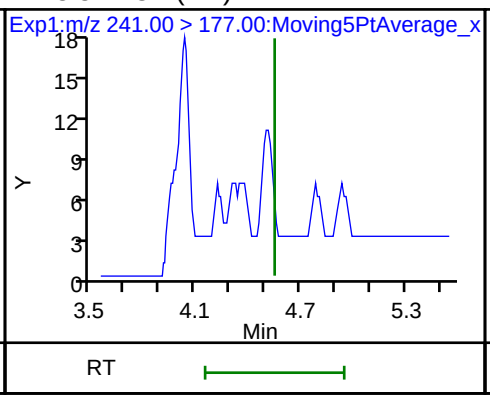
* 4 13C3PFBA



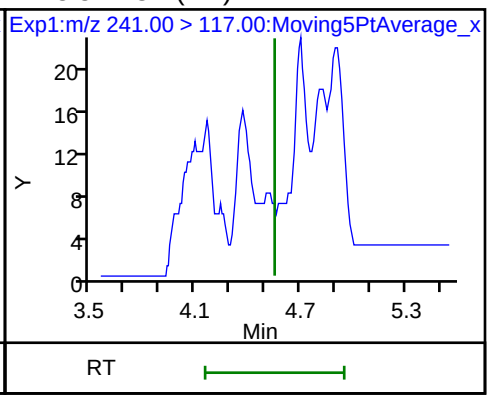
6 PFMPA (ND)



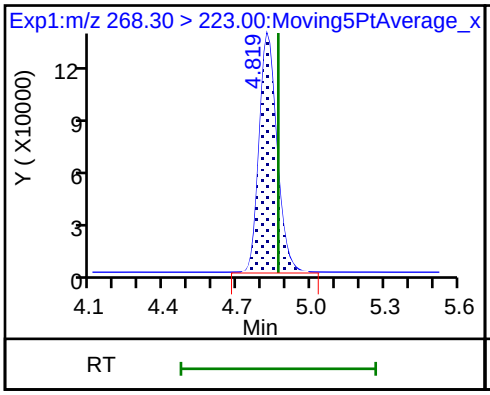
7 3:3 FTCA (ND)



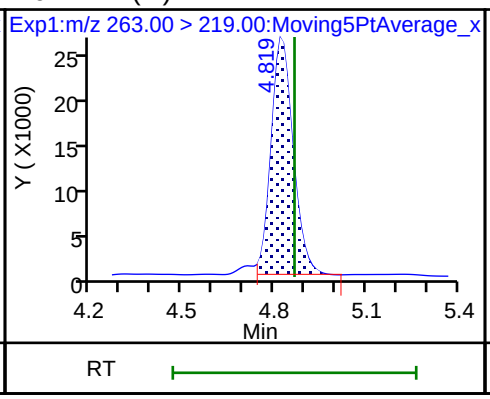
7 3:3 FTCA (ND)



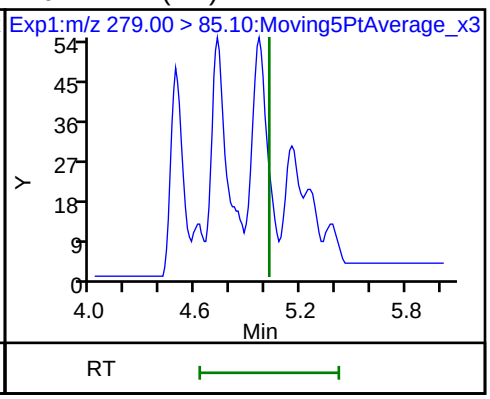
D 8 13C5 PFPeA



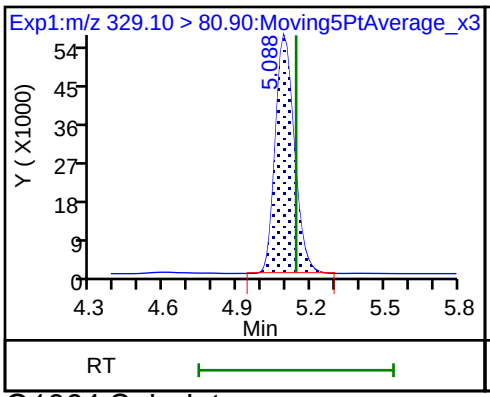
9 PFPA (M)



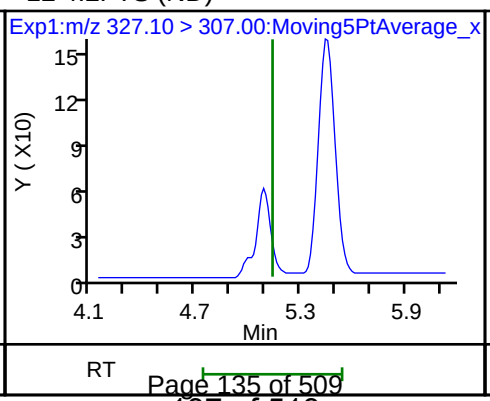
10 PFMBA (ND)



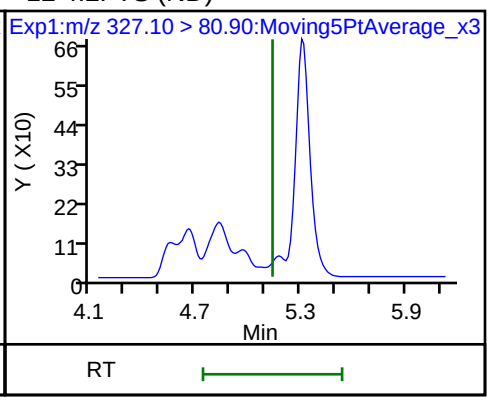
D 11 13C2-4:2FTS



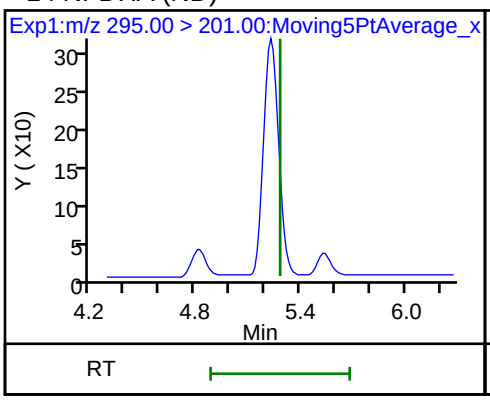
12 4:2FTS (ND)



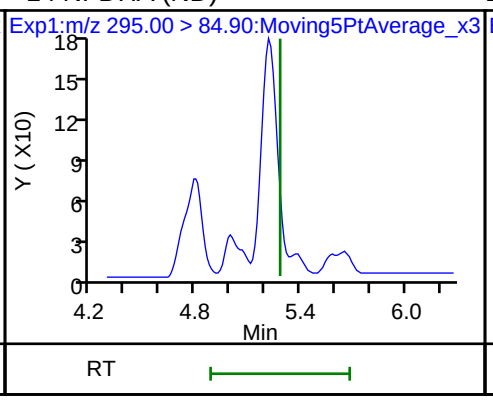
12 4:2FTS (ND)



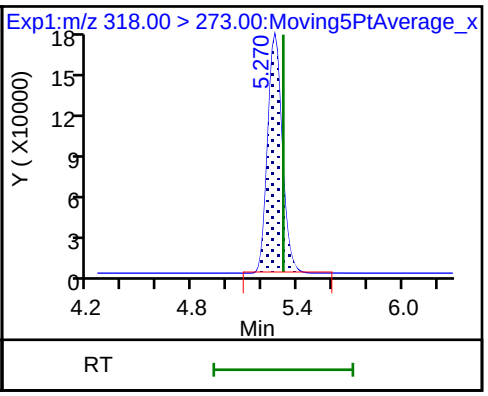
14 NFDHA (ND)



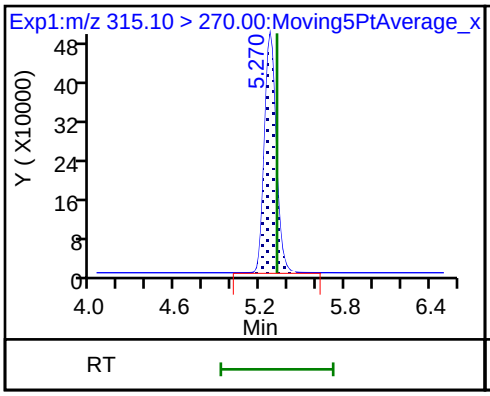
14 NFDHA (ND)



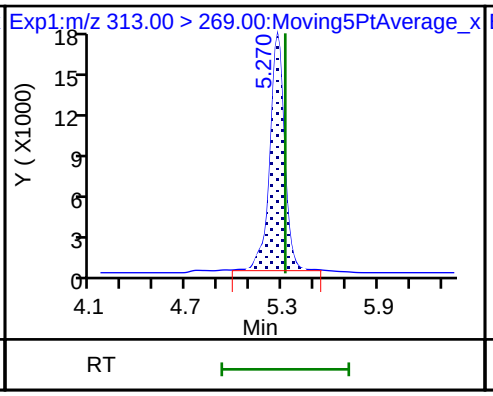
D 15 13C5 PFHxA



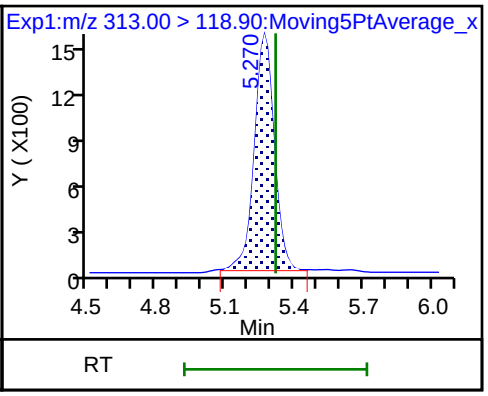
* 16 13C2 PFHxA



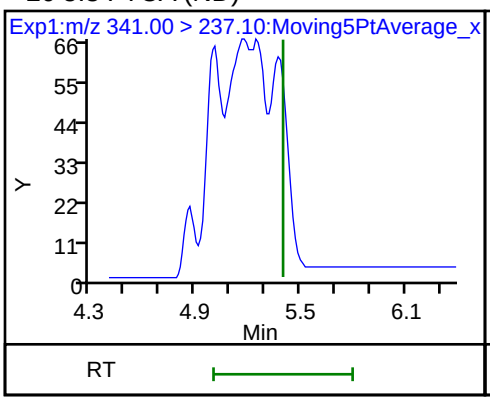
17 PFHxA



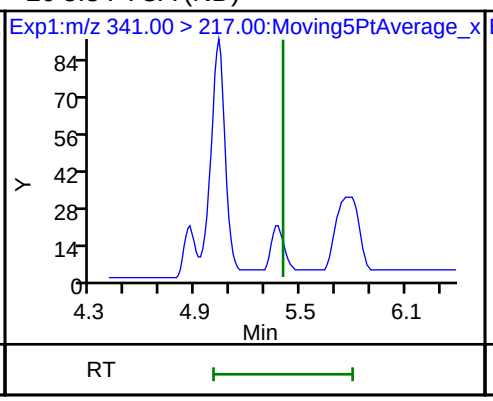
17 PFHxA



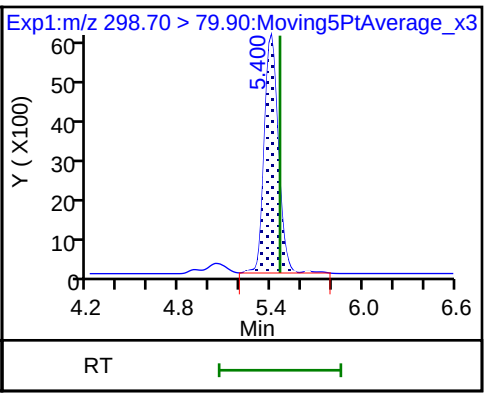
20 5:3 FTCA (ND)



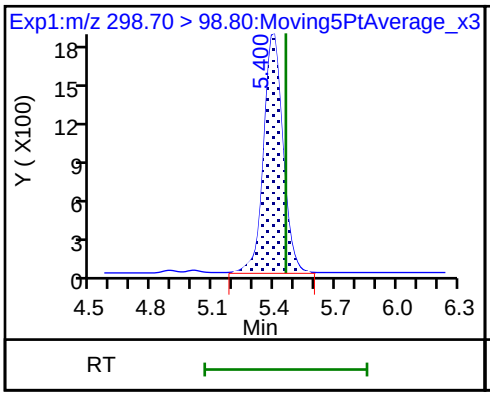
20 5:3 FTCA (ND)



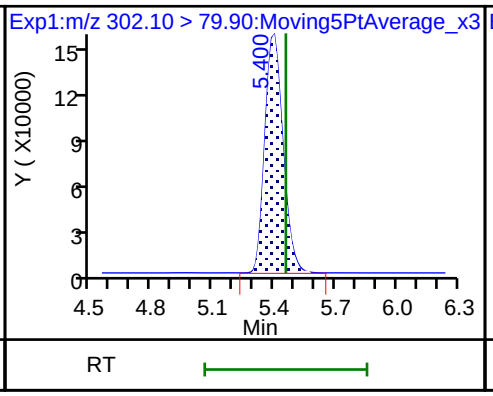
19 PFBS



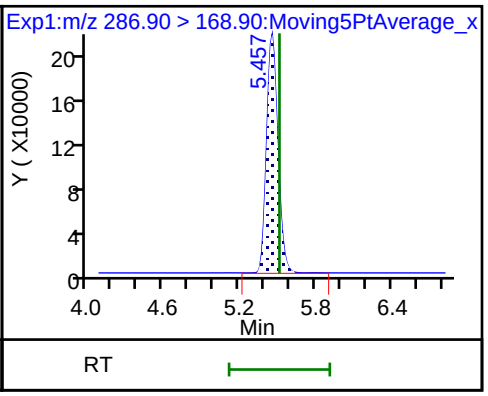
19 PFBS



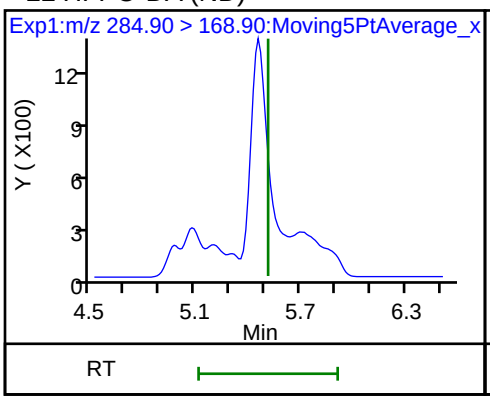
D 18 13C3 PFBS



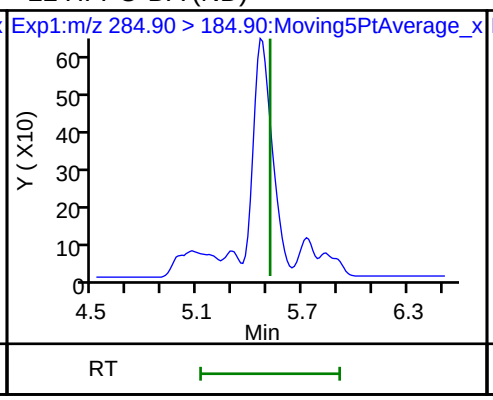
D 21 13C3 HFPO-DA



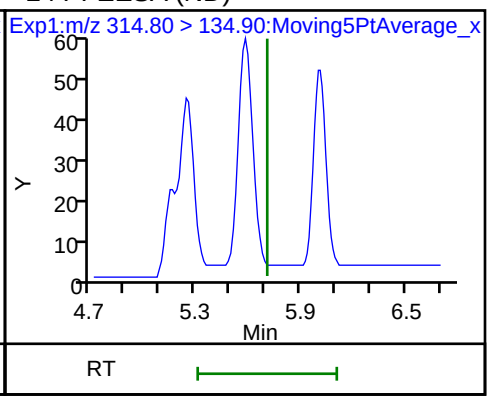
22 HFPO-DA (ND)



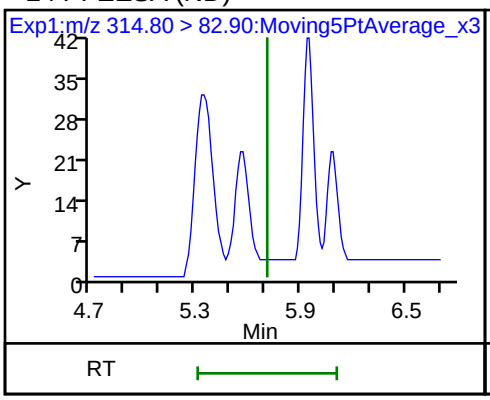
22 HFPO-DA (ND)



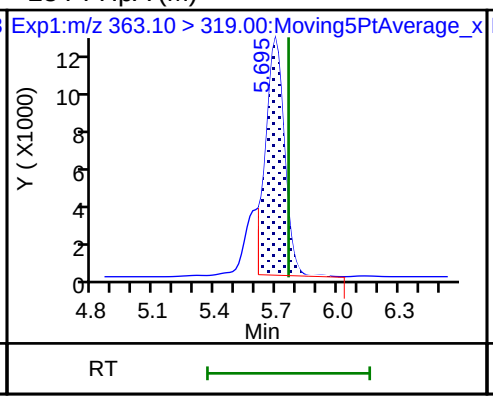
24 PFEESA (ND)



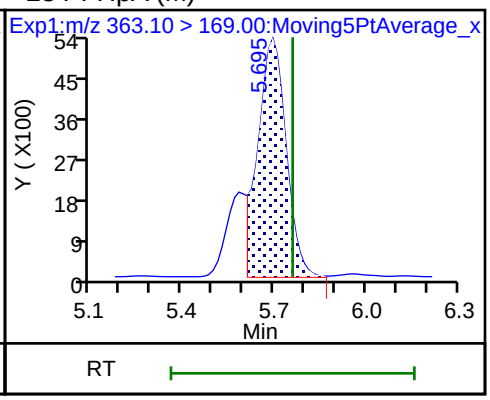
24 PFEESA (ND)



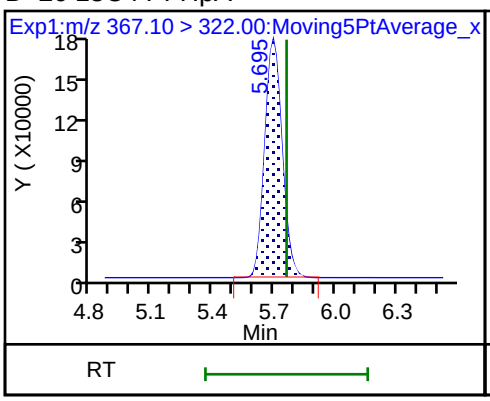
28 PFHpA (M)



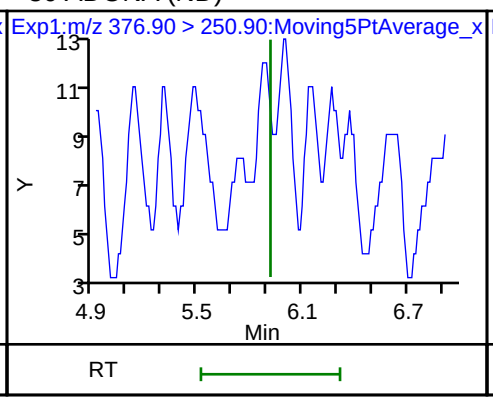
28 PFHpA (M)



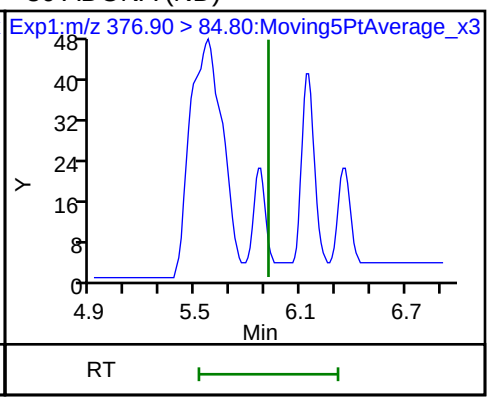
D 26 13C4 PFHpA



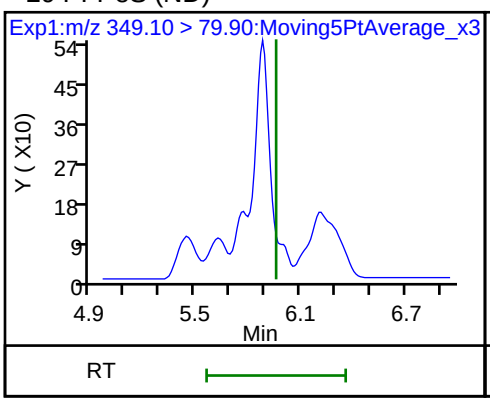
30 ADONA (ND)



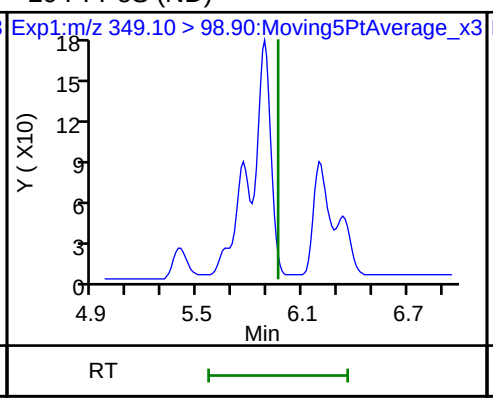
30 ADONA (ND)



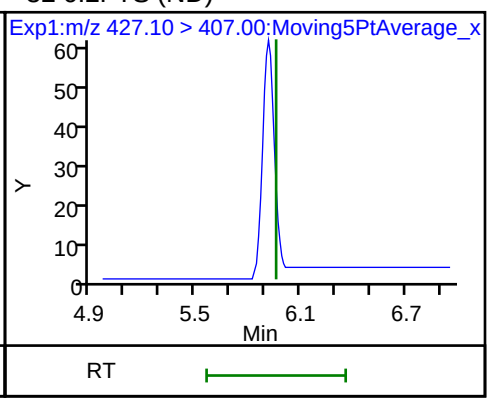
29 PFPeS (ND)



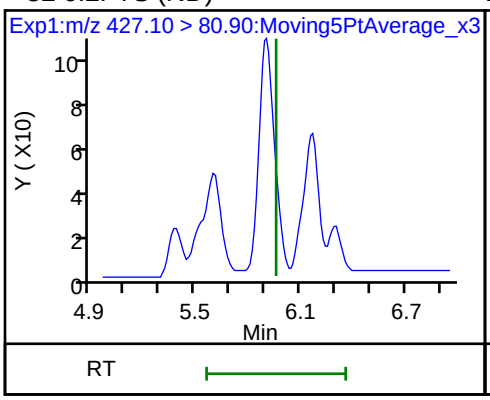
29 PFPeS (ND)



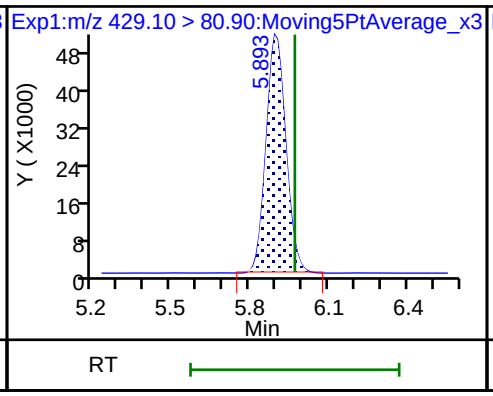
32 6:2FTS (ND)



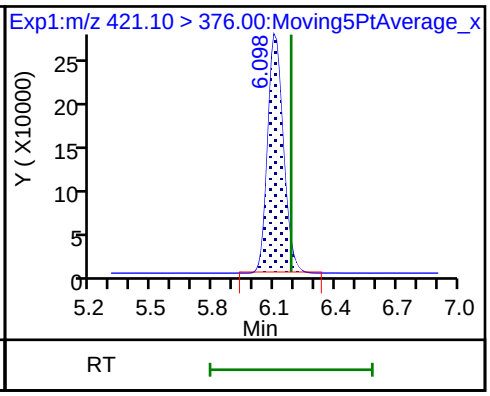
32 6:2FTS (ND)



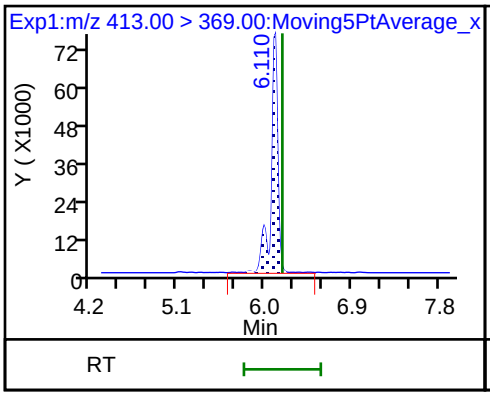
D 31 13C2-6:2FTS



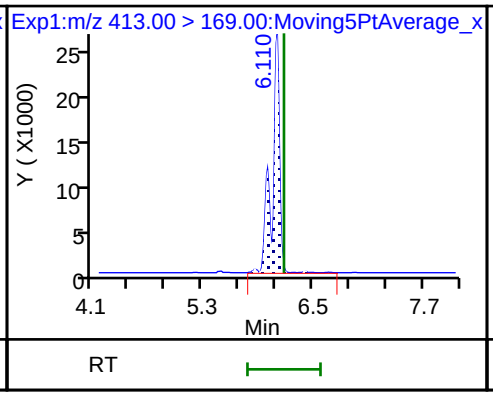
D 34 13C8 PFOA



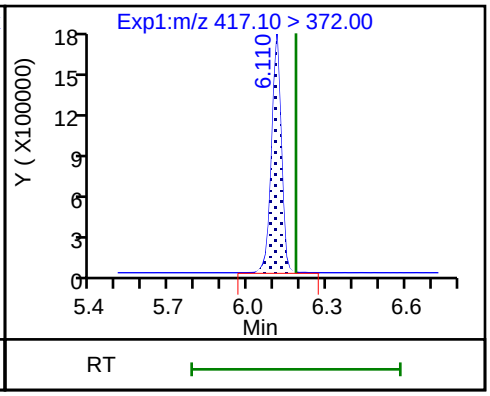
36 PFOA



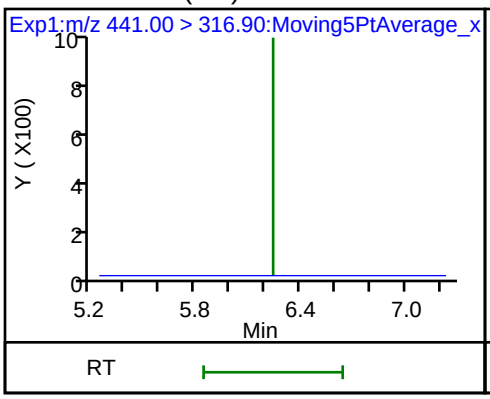
36 PFOA



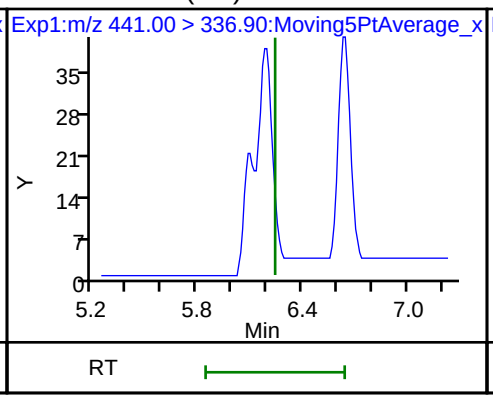
* 35 13C4 PFOA



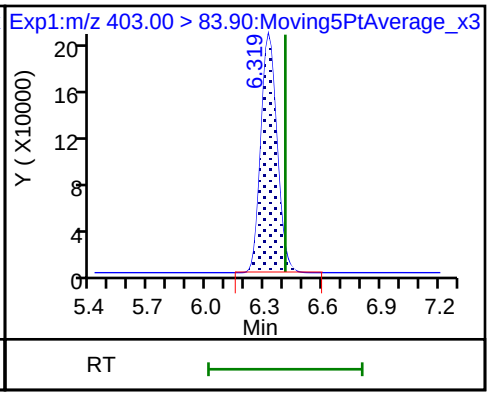
39 7:3 FTCA (ND)



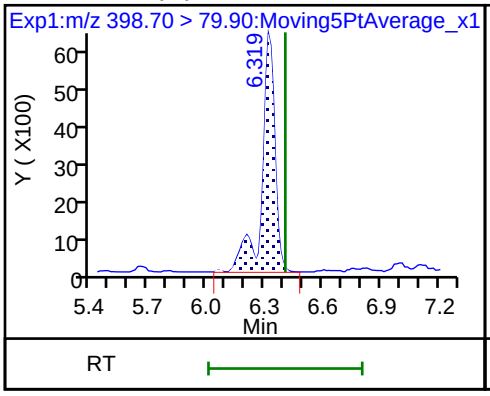
39 7:3 FTCA (ND)



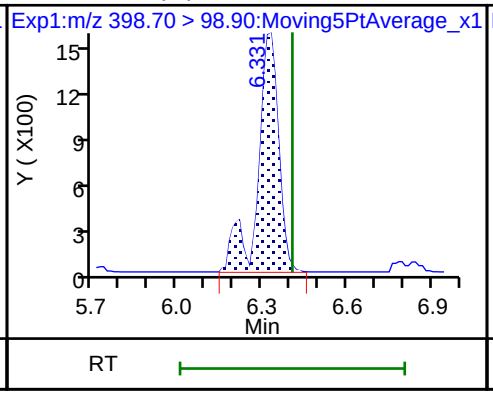
* 37 18O2 PFHxS



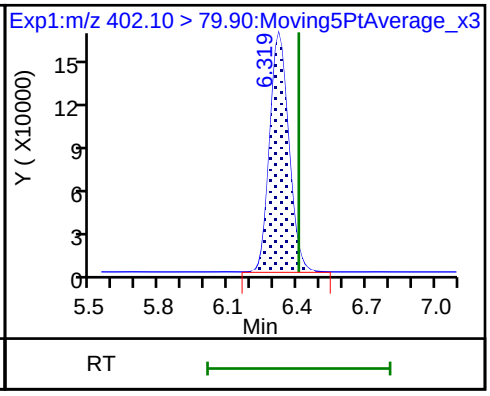
40 PFHxS (M)



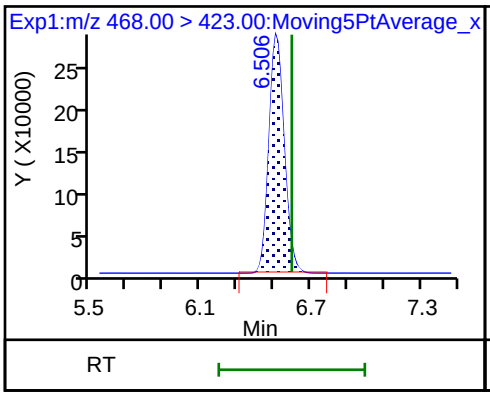
40 PFHxS (M)



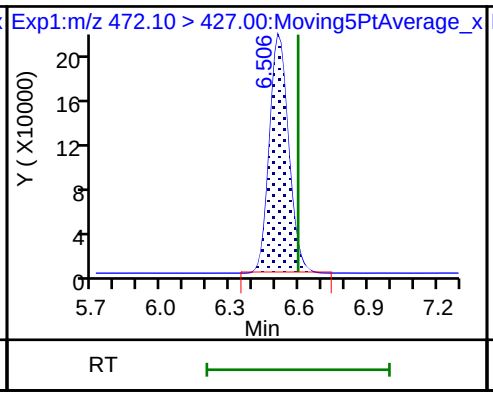
D 38 13C3 PFHxS



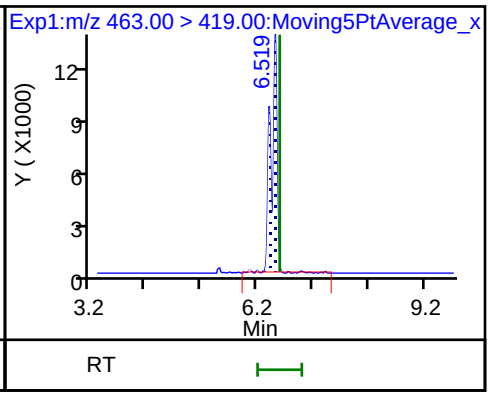
* 42 13C5 PFNA



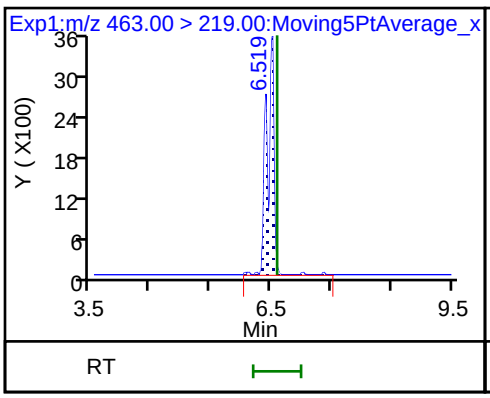
D 41 13C9 PFNA



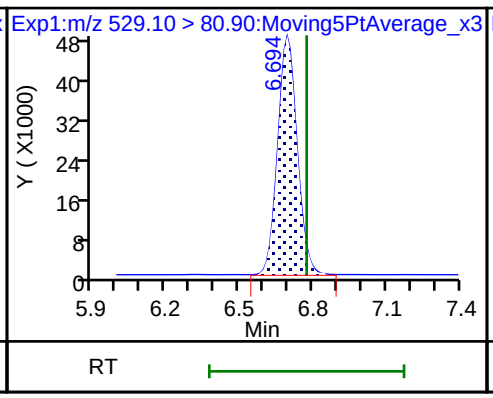
43 PFNA



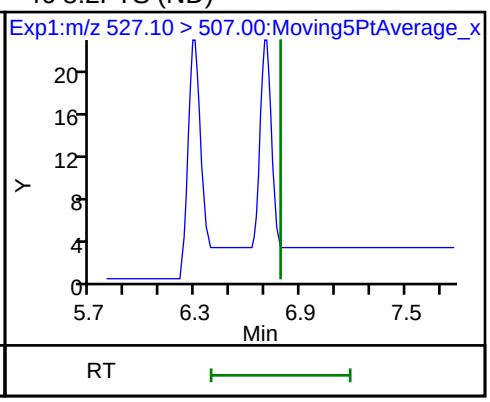
43 PFNA



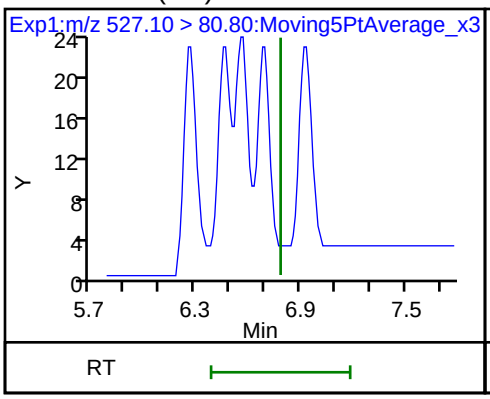
D 45 13C2-8:2FTS



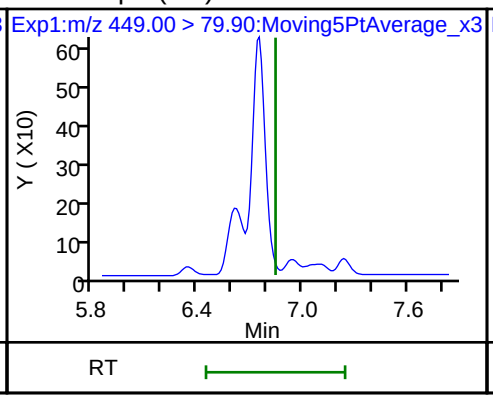
46 8:2FTS (ND)



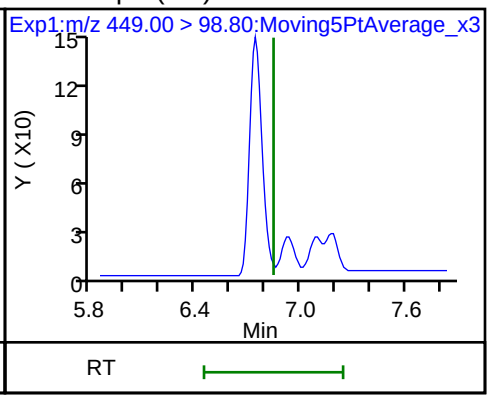
46 8:2FTS (ND)



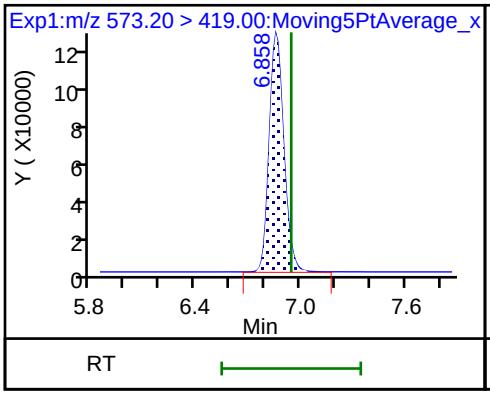
47 PFHpS (ND)



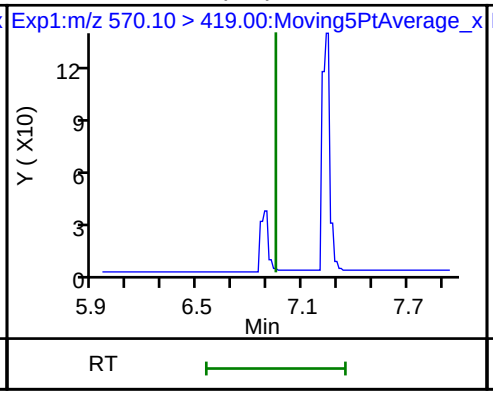
47 PFHpS (ND)



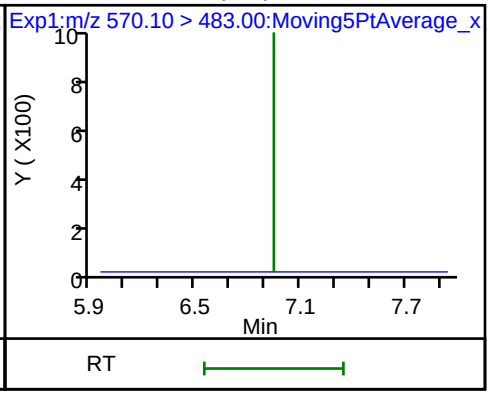
D 49 d3-NMeFOSAA



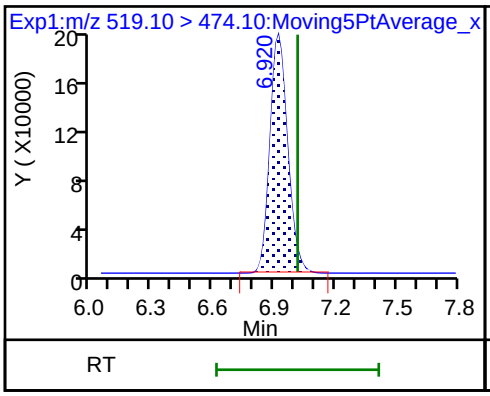
50 NMeFOSAA (ND)



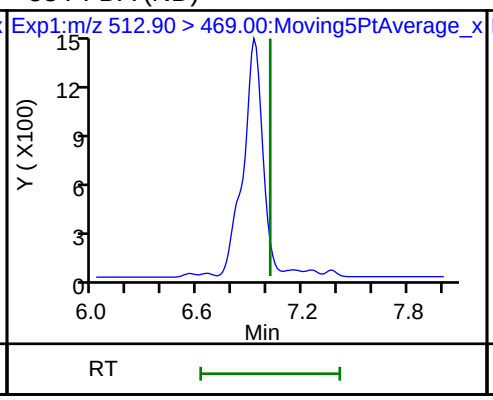
50 NMeFOSAA (ND)



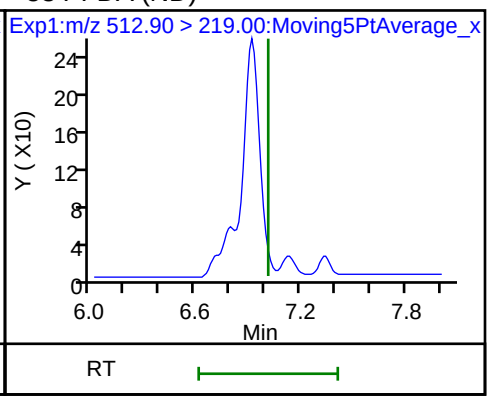
D 51 13C6 PFDA



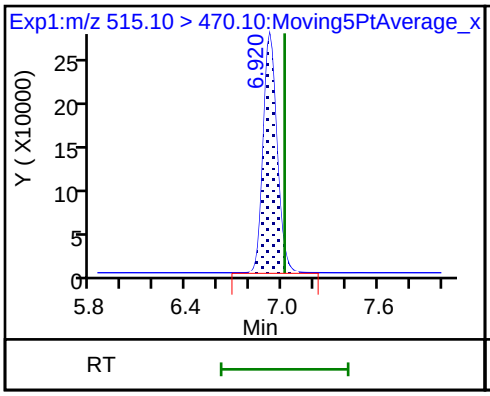
53 PFDA (ND)



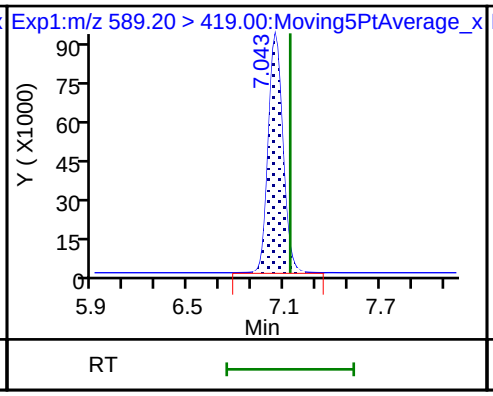
53 PFDA (ND)



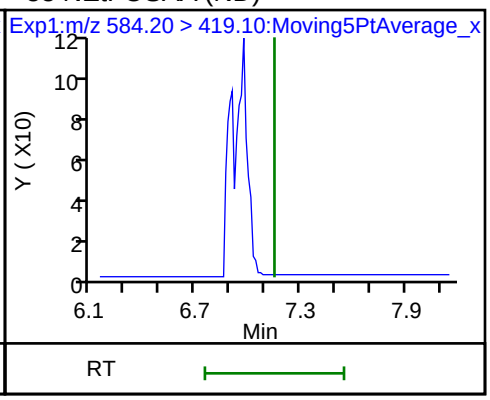
* 52 13C2 PFDA



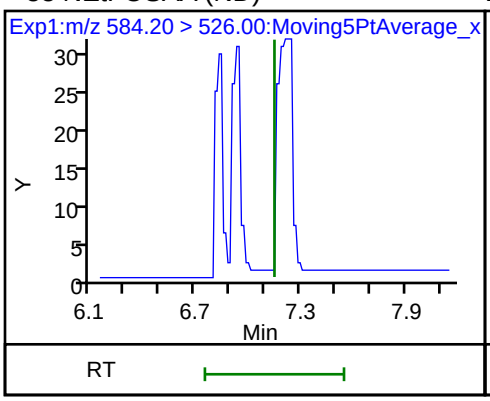
D 54 d5-NEtFOSAA



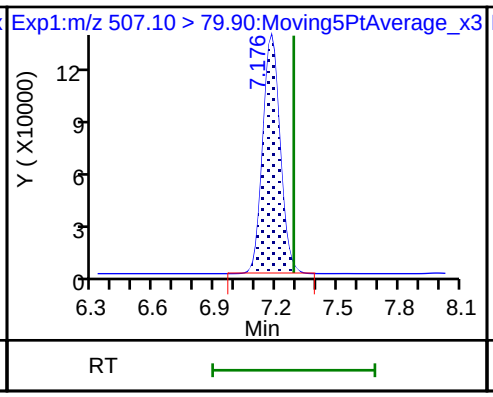
55 NEtFOSAA (ND)



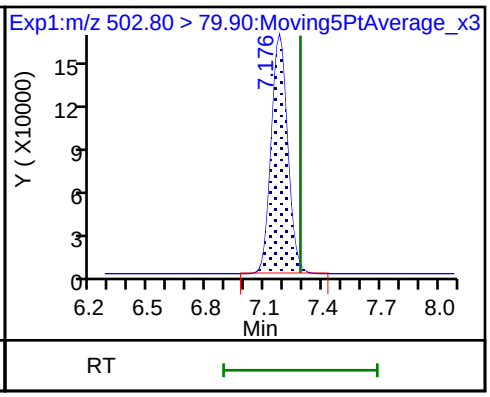
55 NEtFOSAA (ND)



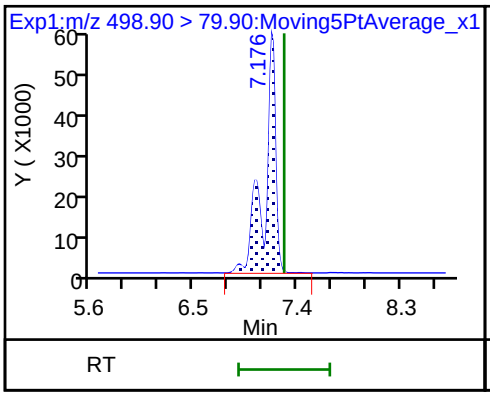
D 56 13C8 PFOS



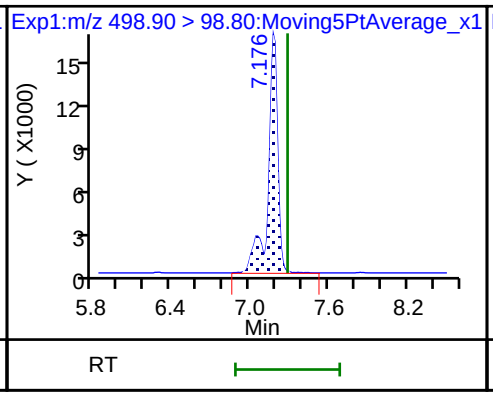
* 57 13C4 PFOS



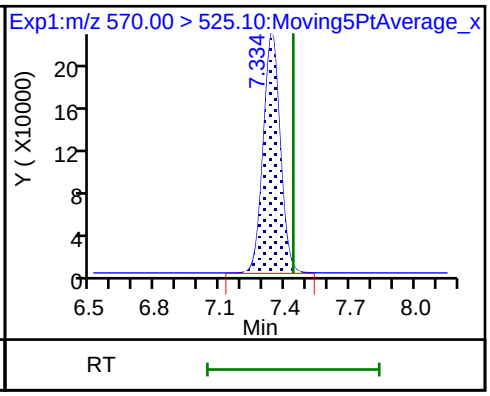
58 PFOS



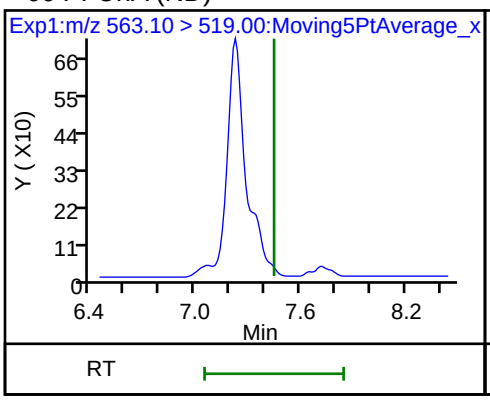
58 PFOS



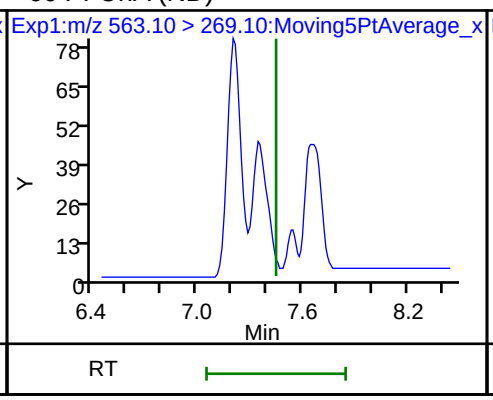
D 59 13C7 PFUnA



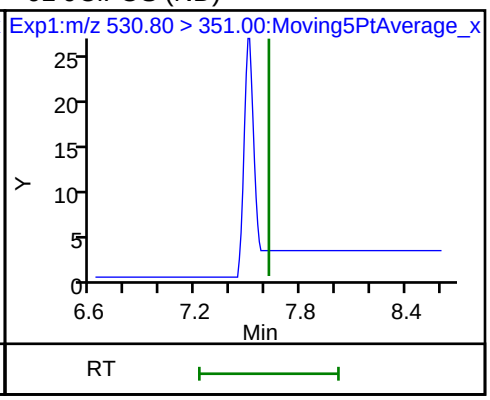
60 PFUnA (ND)



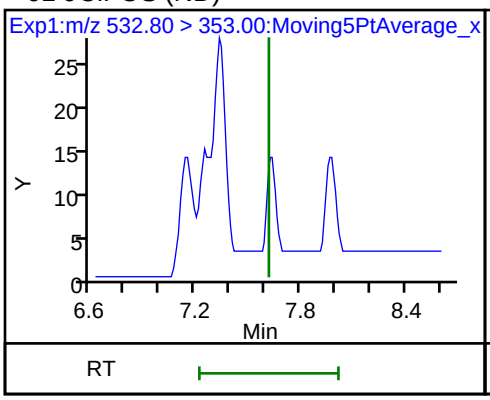
60 PFUnA (ND)



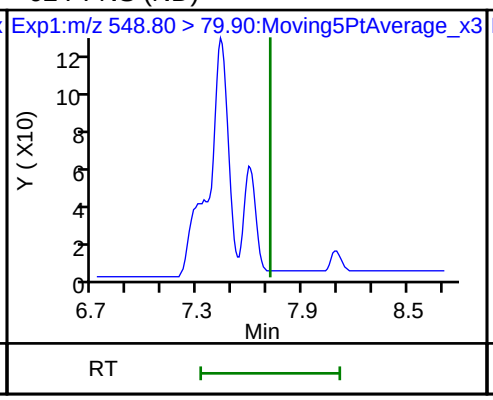
61 9ClFOS (ND)



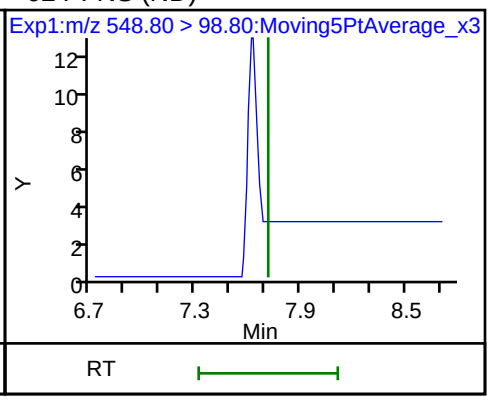
61 9ClFOS (ND)



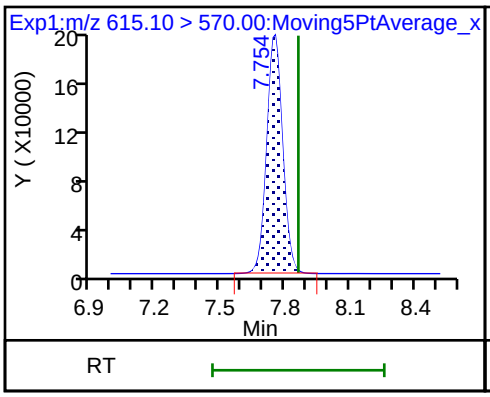
62 PFNS (ND)



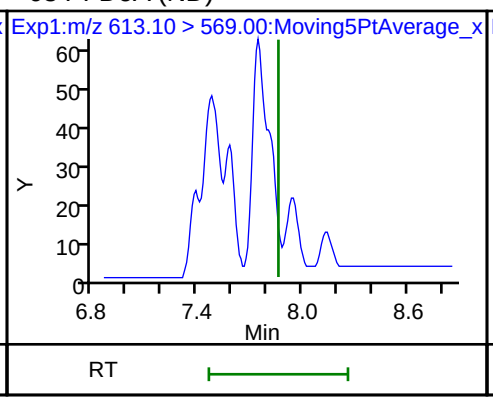
62 PFNS (ND)



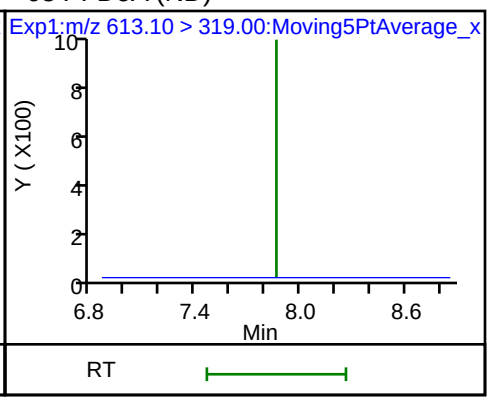
D 82 PFDoA



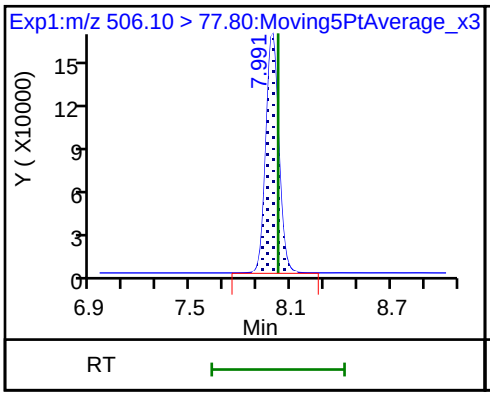
63 PFDoA (ND)



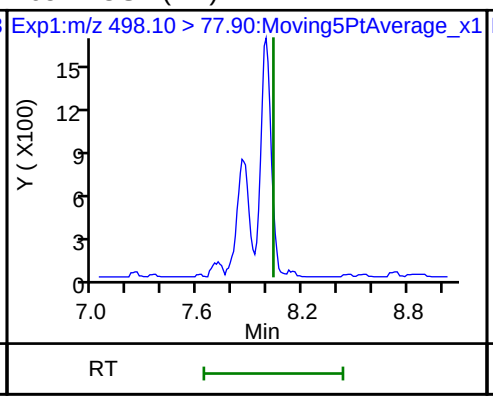
63 PFDoA (ND)



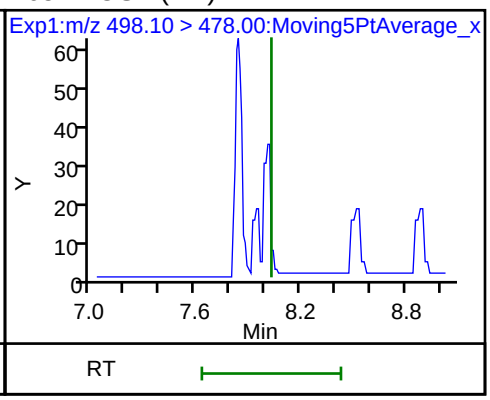
D 64 13C8 FOSA



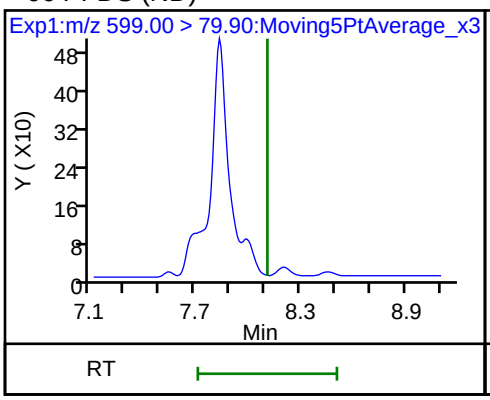
65 PFOSA (ND)



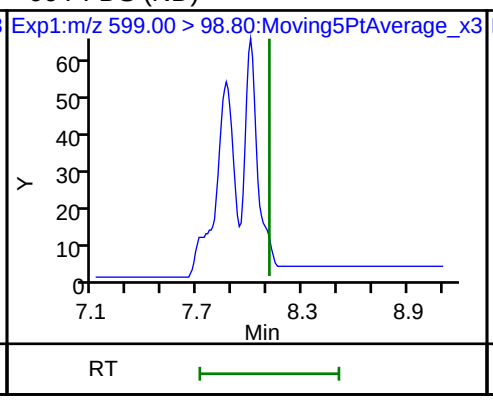
65 PFOSA (ND)



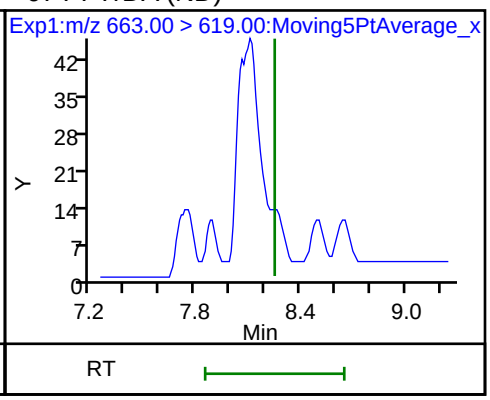
66 PFDS (ND)



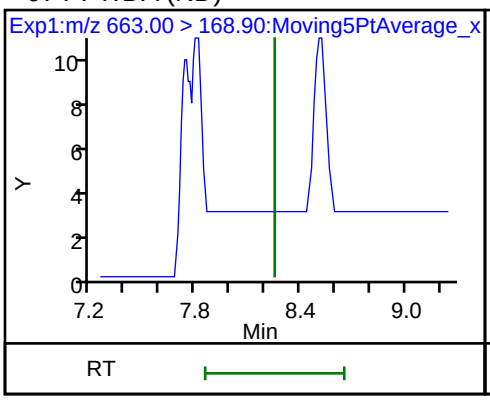
66 PFDS (ND)



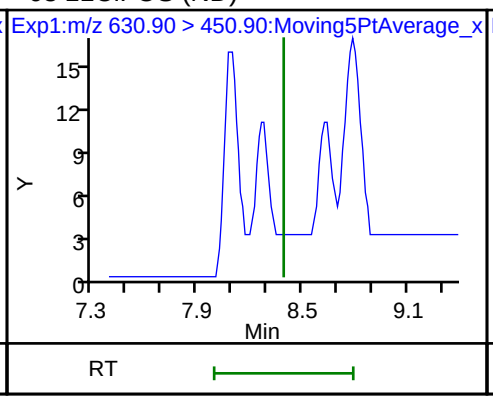
67 PFTrDA (ND)



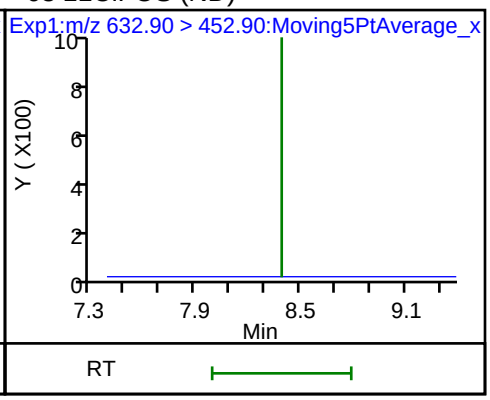
67 PFTrDA (ND)



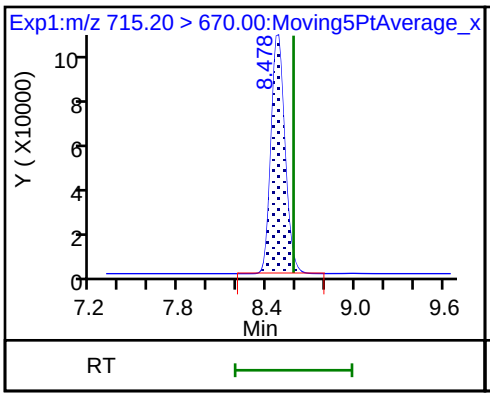
68 11ClFOS (ND)



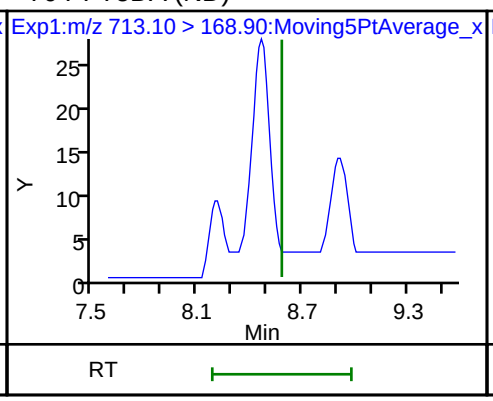
68 11ClFOS (ND)



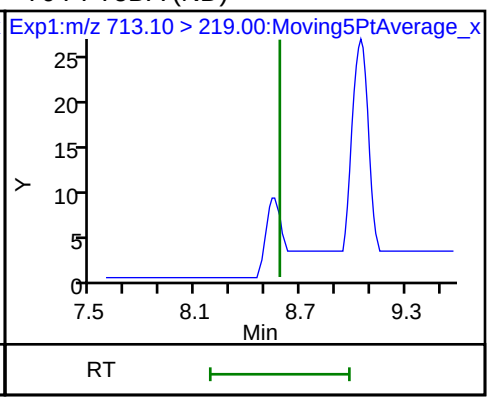
D 69 13C2 PFTeDA



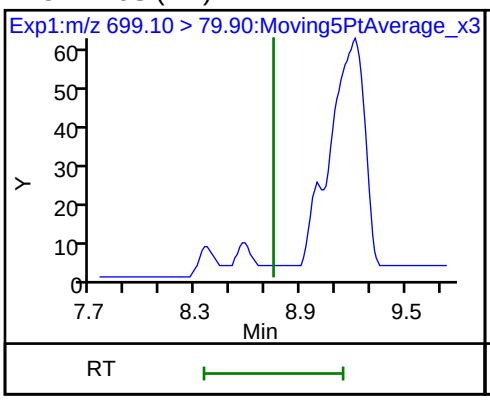
70 PFTeDA (ND)



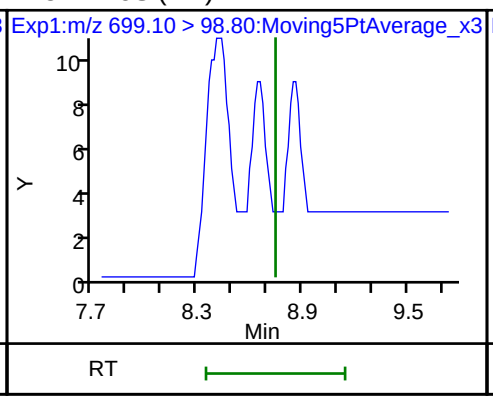
70 PFTeDA (ND)



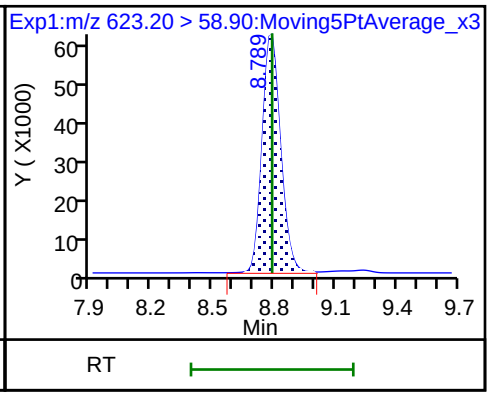
73 PFDoS (ND)



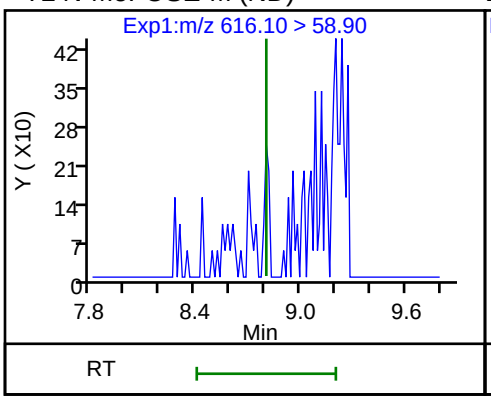
73 PFDoS (ND)



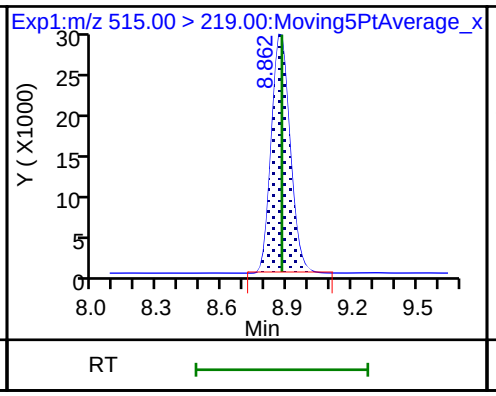
D 71 d7-N-Me-FOSE



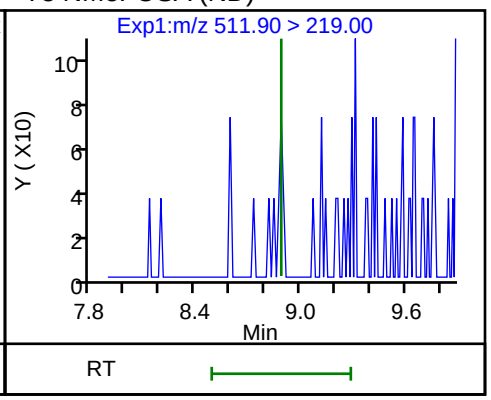
72 N-MeFOSE-M (ND)



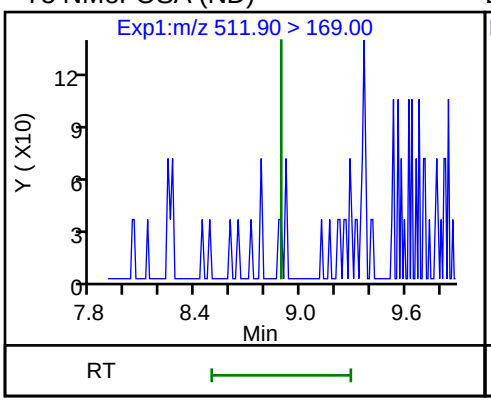
D 74 d3-NMePFOSA



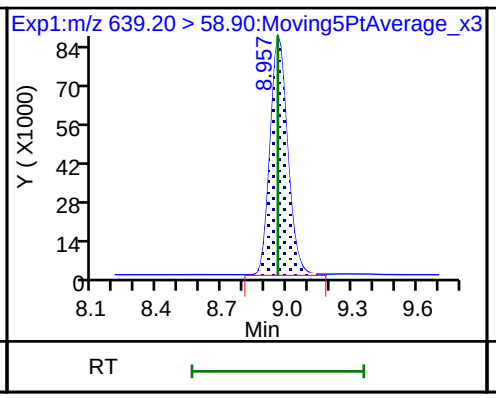
75 NMeFOSA (ND)



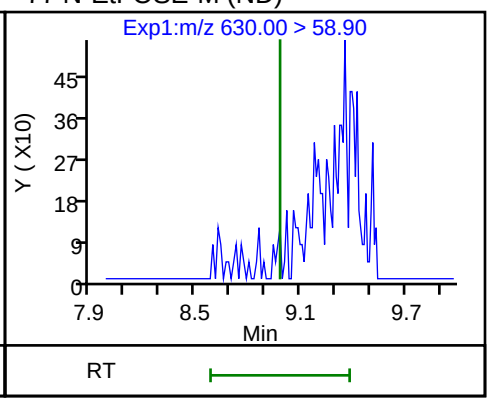
75 NMeFOSA (ND)



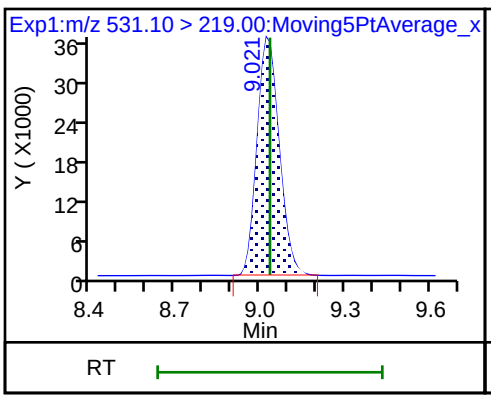
D 76 d9-N-EtFOSE



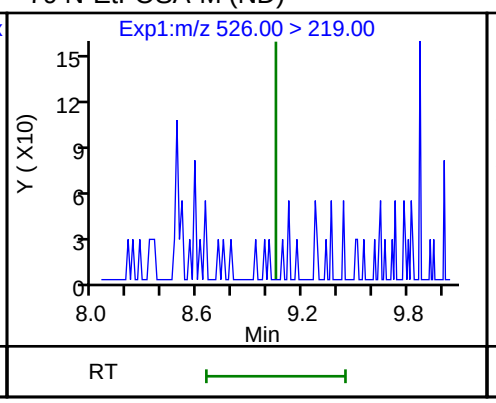
77 N-EtFOSE-M (ND)



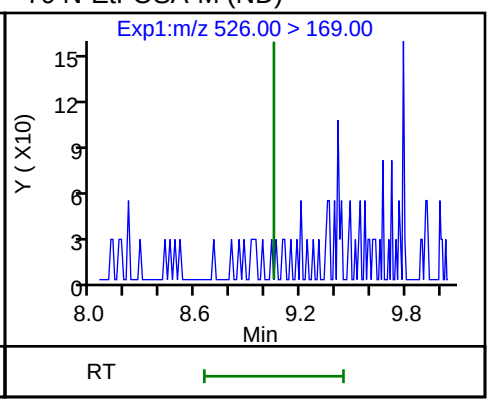
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

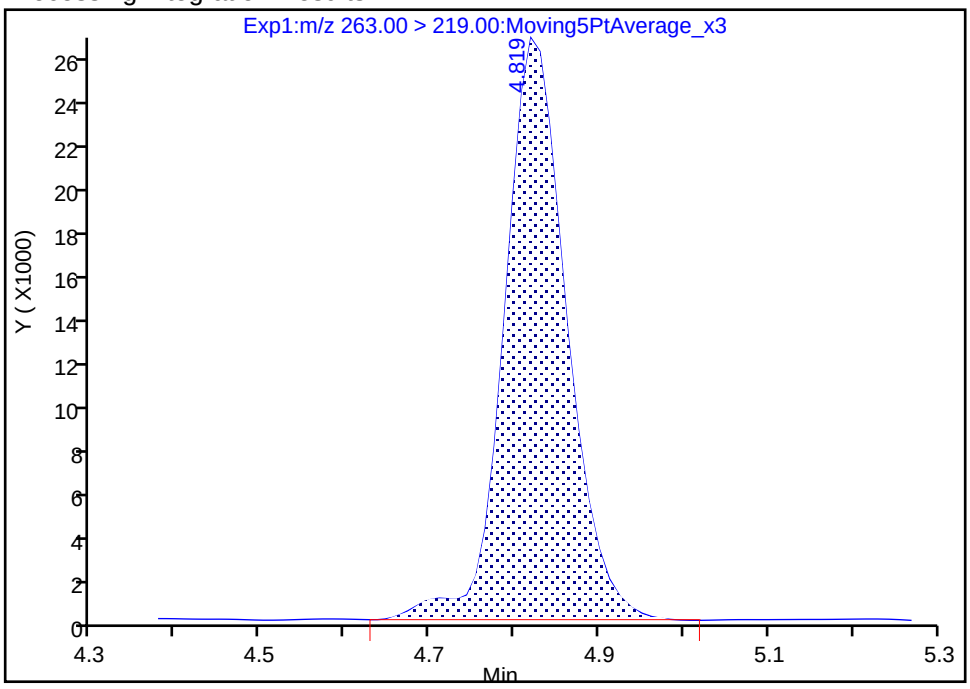
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d				
Injection Date:	17-Feb-2025 19:09:25	Instrument ID:	30576		
Lims ID:	410-207884-A-5-B	Lab Sample ID:	410-207884-5		
Client ID:	VFCC-3-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	20	Worklist Smp#:	88
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

9 PFPA, CAS: 2706-90-3

Signal: 1

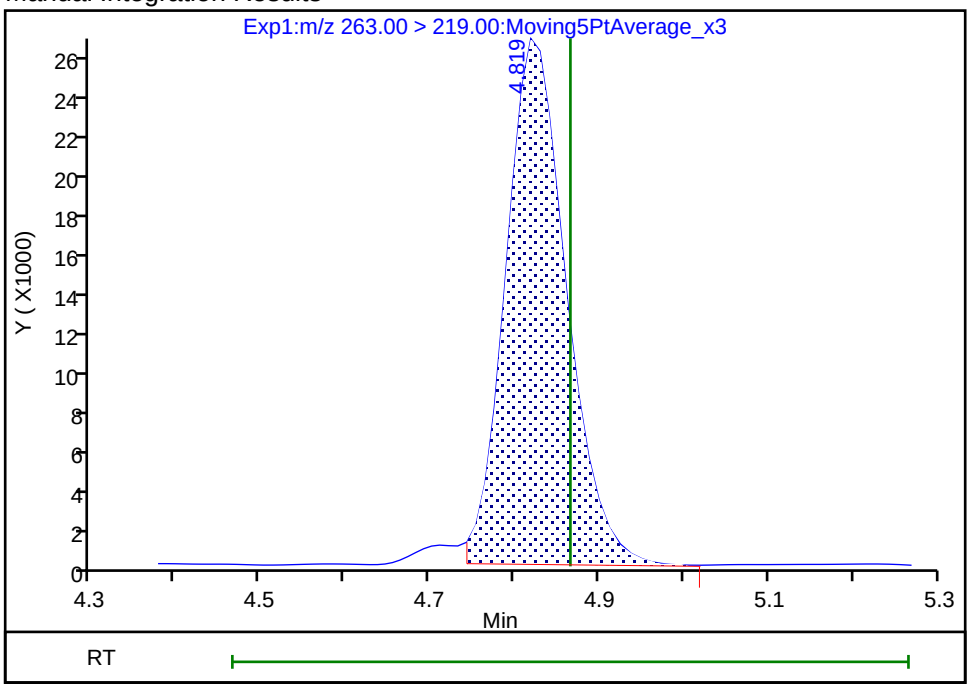
Processing Integration Results

RT: 4.82
Area: 134858
Amount: 0.258577
Amount Units: ng/ml



Manual Integration Results

RT: 4.82
Area: 130931
Amount: 0.251048
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:40:21 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

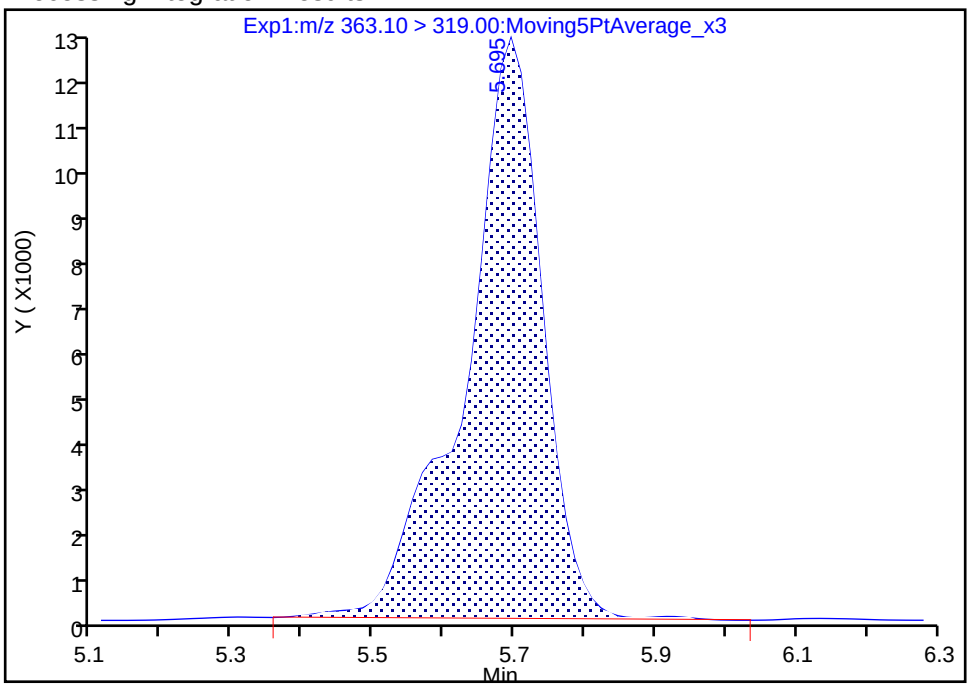
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d				
Injection Date:	17-Feb-2025 19:09:25	Instrument ID:	30576		
Lims ID:	410-207884-A-5-B	Lab Sample ID:	410-207884-5		
Client ID:	VFCC-3-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	20	Worklist Smp#:	88
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 1

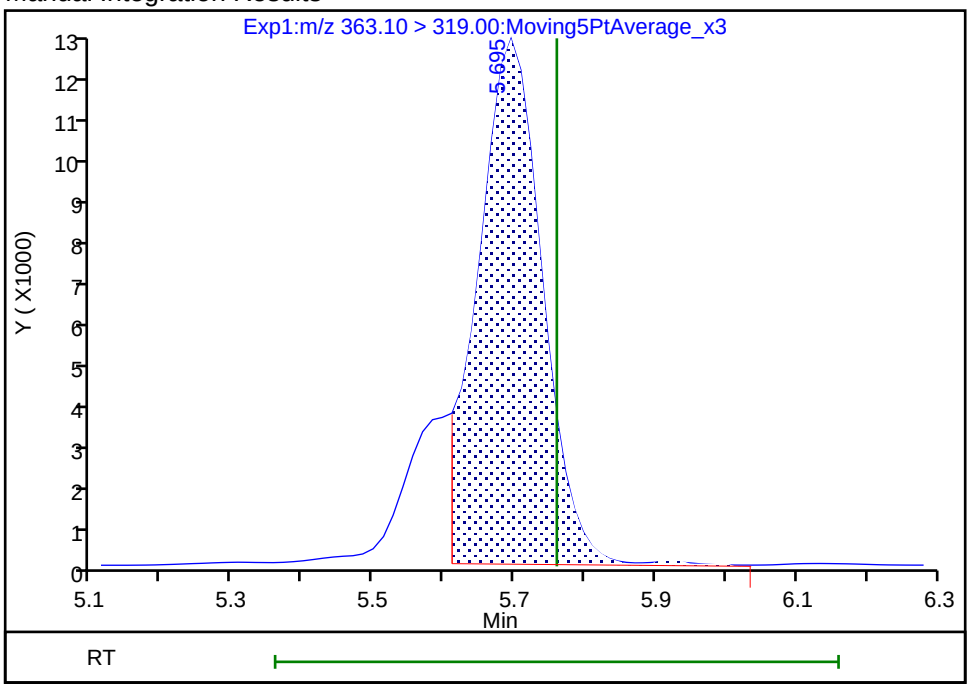
Processing Integration Results

RT: 5.69
Area: 97843
Amount: 0.196861
Amount Units: ng/ml



Manual Integration Results

RT: 5.69
Area: 81202
Amount: 0.163379
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:40:33 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

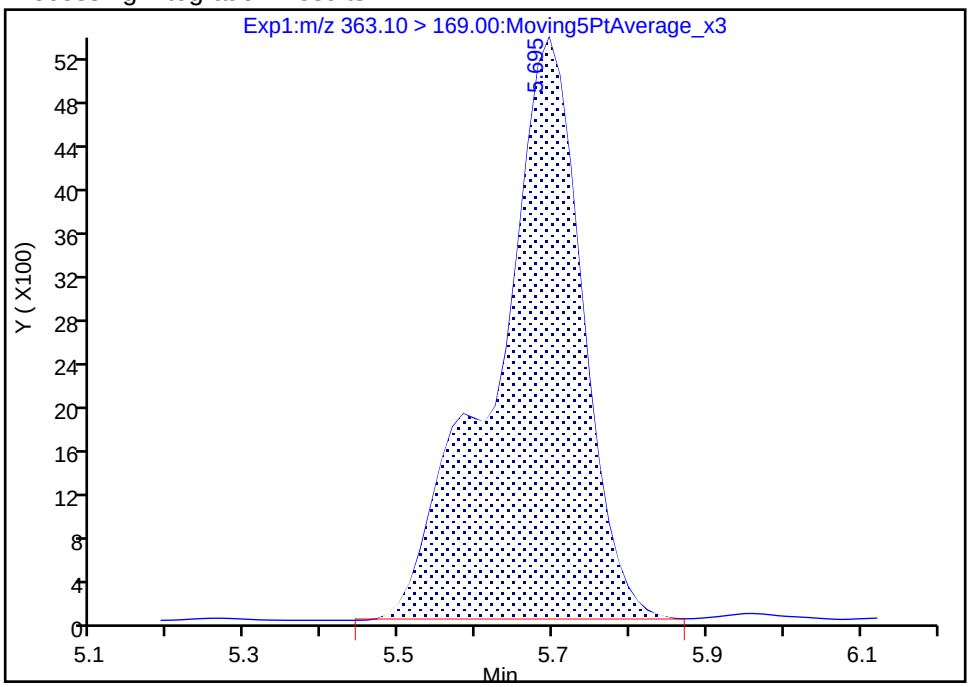
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d				
Injection Date:	17-Feb-2025 19:09:25	Instrument ID:	30576		
Lims ID:	410-207884-A-5-B	Lab Sample ID:	410-207884-5		
Client ID:	VFCC-3-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	20	Worklist Smp#:	88
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 2

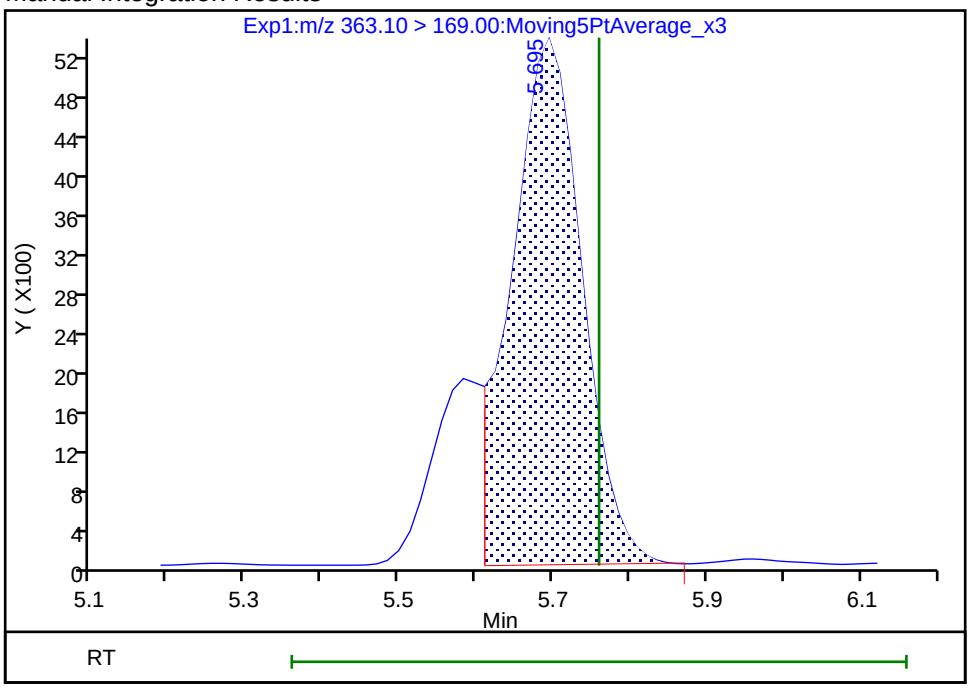
Processing Integration Results

RT: 5.69
Area: 42422
Amount: 0.196861
Amount Units: ng/ml



Manual Integration Results

RT: 5.69
Area: 33878
Amount: 0.163379
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:40:38 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

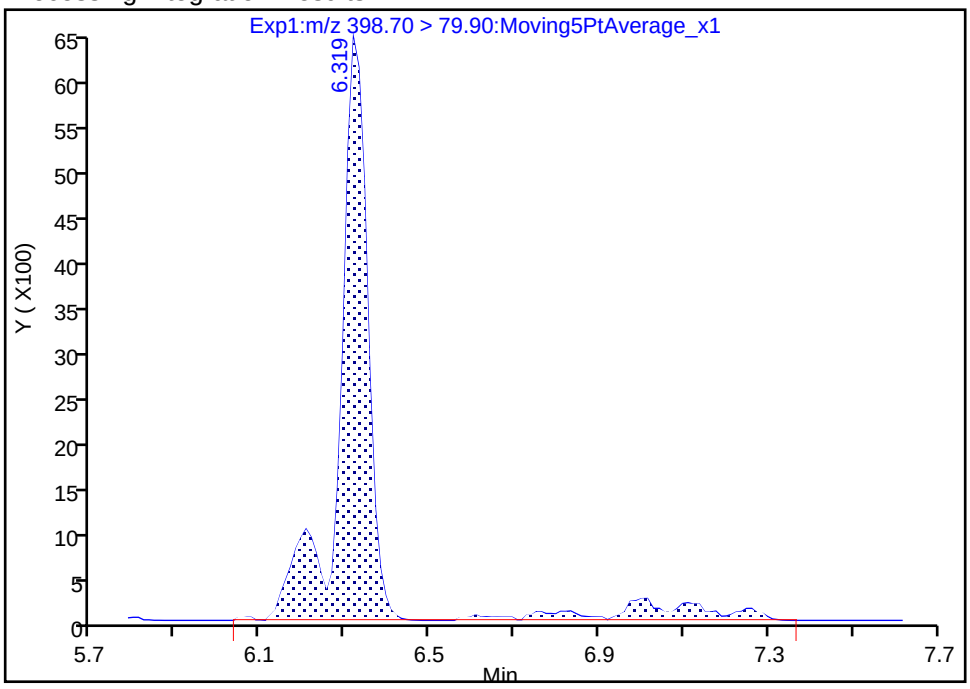
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d				
Injection Date:	17-Feb-2025 19:09:25	Instrument ID:	30576		
Lims ID:	410-207884-A-5-B	Lab Sample ID:	410-207884-5		
Client ID:	VFCC-3-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	20	Worklist Smp#:	88
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

40 PFHxS, CAS: 355-46-4

Signal: 1

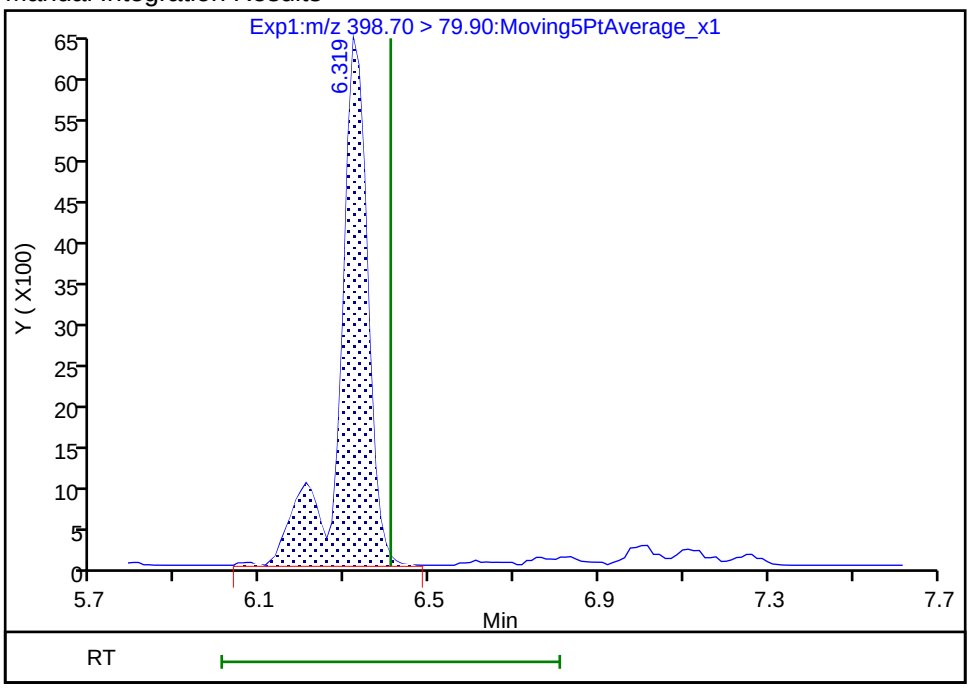
Processing Integration Results

RT: 6.32
Area: 33854
Amount: 0.084005
Amount Units: ng/ml



Manual Integration Results

RT: 6.32
Area: 29952
Amount: 0.074323
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:40:49 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

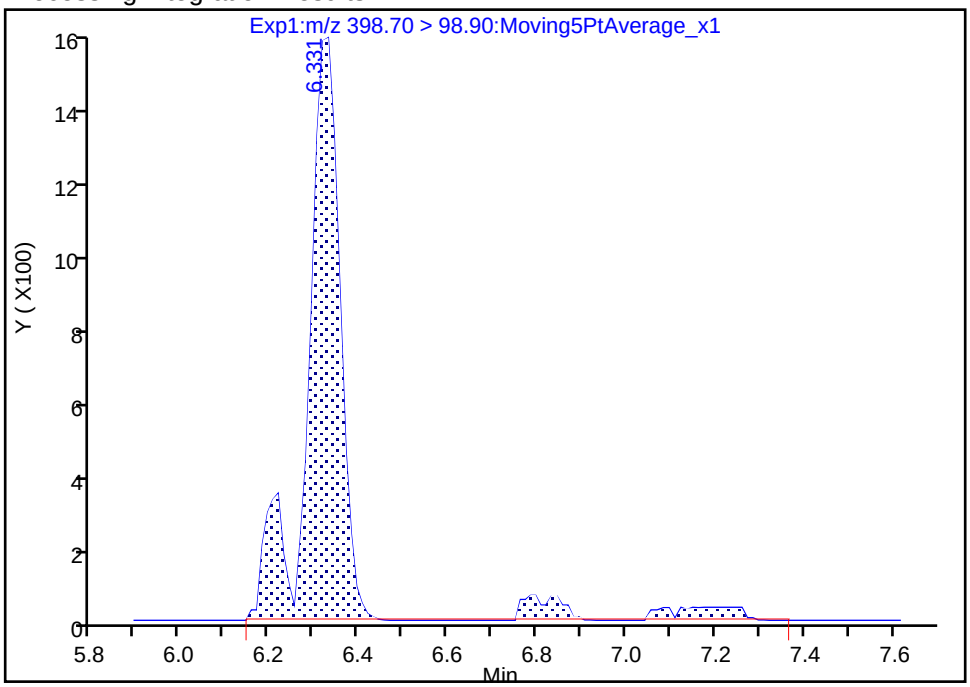
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-15.d				
Injection Date:	17-Feb-2025 19:09:25	Instrument ID:	30576		
Lims ID:	410-207884-A-5-B	Lab Sample ID:	410-207884-5		
Client ID:	VFCC-3-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	20	Worklist Smp#:	88
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

40 PFHxS, CAS: 355-46-4

Signal: 2

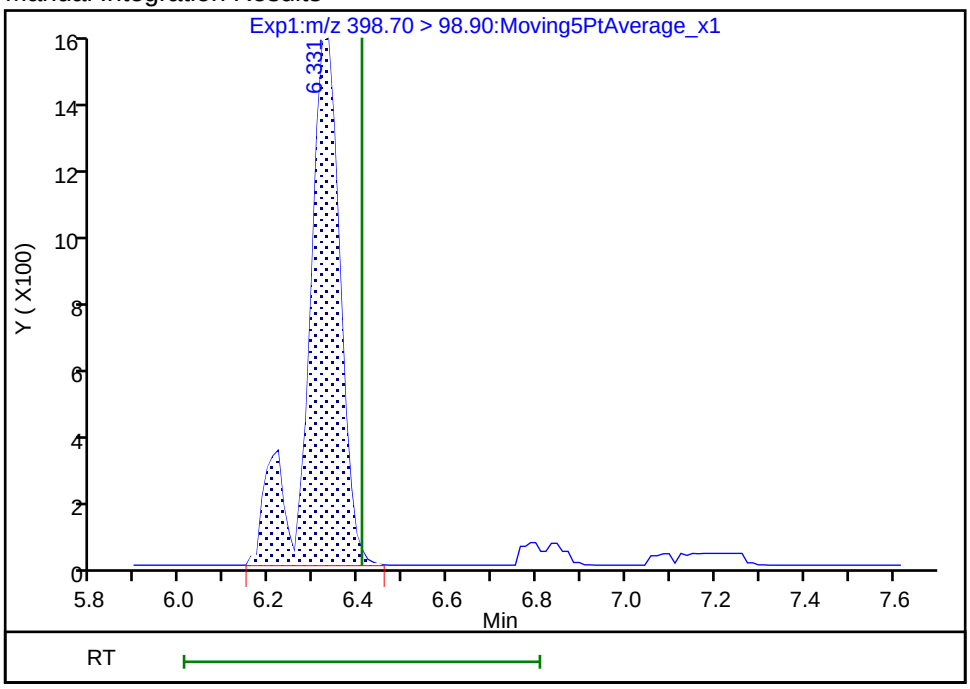
Processing Integration Results

RT: 6.33
Area: 8801
Amount: 0.084005
Amount Units: ng/ml



Manual Integration Results

RT: 6.33
Area: 7975
Amount: 0.074323
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 19:40:51 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33S-021225
Lab Sample ID: 410-207884-6

Matrix: Water
Lab File ID: 25FEB17W-16.d

Analysis Method: 1633
Date Collected: 02/12/2025 14:35

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141(mL)
Date Analyzed: 02/17/2025 19:22

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	8.1		3.5	0.98
2706-90-3	Perfluoropentanoic acid	15		1.8	0.53
307-24-4	Perfluorohexanoic acid	12		1.8	0.44
375-85-9	Perfluoroheptanoic acid	7.1		1.8	0.71
335-67-1	Perfluorooctanoic acid	15		1.8	0.80
375-95-1	Perfluorononanoic acid	7.5		1.8	0.44
335-76-2	Perfluorodecanoic acid	1.5	J	1.8	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	4.1		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	3.4		1.8	0.71
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	11		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.89
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.5	0.89
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.89
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
31506-32-8	NMeFOSA	ND		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44
2355-31-9	NMeFOSAA	ND		1.8	0.44
2991-50-6	NEtFOSAA	ND		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33S-021225
Lab Sample ID: 410-207884-6

Matrix: Water
Lab File ID: 25FEB17W-16.d

Analysis Method: 1633
Date Collected: 02/12/2025 14:35

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141(mL)
Date Analyzed: 02/17/2025 19:22

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.9	2.2
13252-13-6	HFPO-DA	ND		1.8	0.66
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44
113507-82-7	PFEESA	ND		1.8	0.44
356-02-5	3:3 FTCA	ND		3.5	0.89
914637-49-3	5:3 FTCA	ND		8.9	2.5
812-70-4	7:3 FTCA	ND		8.9	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33S-021225 Lab Sample ID: 410-207884-6

Matrix: Water Lab File ID: 25FEB17W-16.d

Analysis Method: 1633 Date Collected: 02/12/2025 14:35

Extraction Method: 1633 Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141(mL) Date Analyzed: 02/17/2025 19:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840 Units: ng/L

Preparation Batch No.: 606716 Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90.7		5-130
STL01893	13C5 PFPeA	117	cn	40-130
STL02577	13C5 PFHxA	112	cn	40-130
STL01892	13C4 PFHpA	121	cn	40-130
STL01052	13C8 PFOA	84.5		40-130
STL02578	13C9 PFNA	79.7		40-130
STL02579	13C6 PFDA	78.7		40-130
STL02580	13C7 PFUnA	84.2	cn	30-130
STL02116	13C2 PFTeDA	79.3	cn	10-130
STL02337	13C3 PFBS	87.0		40-135
STL02581	13C3 PFHxS	80.9		40-130
STL01054	13C8 PFOS	93.3		40-130
STL01056	13C8 FOSA	81.5		40-130
STL02118	d3-NMeFOSAA	84.4		40-170
STL02117	d5-NEtFOSAA	85.2		25-135
STL02395	M2-4:2 FTS	73.9		40-200
STL02279	M2-6:2 FTS	71.6		40-200
STL02280	M2-8:2 FTS	66.5		40-300
STL02255	13C3 HFPO-DA	118	cn	40-130
STL02277	d7-N-MeFOSE-M	87.6		10-130
STL02278	d9-N-EtFOSE-M	86.3		10-130
STL02704	d5-NEtPFOSA	61.8		10-130
STL02705	d3-NMePFOSA	62.6		10-130
STL00998	13C2 PFDoA	82.0		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-16.d
Lims ID: 410-207884-A-6-B
Client ID: MW-33S-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 19:22:59 ALS Bottle#: 21 Worklist Smp#: 89
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-6-B
Misc. Info.: Plate: 2 Rack: 1 410-0138392-089
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 20:05:57 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 20:04:50
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PFBA										
212.80 > 168.90	4.165	4.216	-0.052	0.998	130163	0.2297			1012	
D 3 13C4-PFBA										
216.80 > 171.90	4.173	4.224	-0.051	1.000	1285301	1.81		90.7	66031	
* 4 13C3PFBA										
216.00 > 172.00	4.173	4.224	-0.051		1325897	2.00			33952	
D 8 13C5 PFPeA										
268.30 > 223.00	4.818	4.866	-0.048	0.915	695920	2.35		117	46776	
9 PFPA										M
263.00 > 219.00	4.818	4.866	-0.048	1.000	226902	0.4343			5058	M
D 11 13C2-4:2FTS										
329.10 > 80.90	5.087	5.139	-0.052	0.805	298489	3.47		73.9	6993	
D 15 13C5 PFHxA										
318.00 > 273.00	5.268	5.318	-0.050	1.000	963901	2.25		112	56473	
* 16 13C2 PFHxA										
315.10 > 270.00	5.268	5.318	-0.050		2427177	5.00			141136	
17 PFHxA										
313.00 > 269.00	5.268	5.318	-0.050	1.000	151398	0.3374	Target=10.68		4172	
313.00 > 118.90	5.268	5.318	-0.050	1.000	12969		11.67(5.34-16.02)		765	
19 PFBS										
298.70 > 79.90	5.398	5.456	-0.058	1.000	59063	0.1152	Target=2.96		1861	
298.70 > 98.80	5.398	5.456	-0.058	1.000	18977		3.11(1.48-4.44)		1051	
D 18 13C3 PFBS										
302.10 > 79.90	5.398	5.456	-0.058	0.855	971203	1.62		87.0	39152	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.455	5.514	-0.059	1.035	1254069	2.36		118	67903	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 HFPO-DA										
284.90 > 168.90	5.455	5.514	-0.059	1.000	9621	0.0154	Target=2.37		216	
284.90 > 184.90	5.455	5.514	-0.059	1.000	5660		1.70(1.19-3.56)		224	
28 PFHpA										
363.10 > 319.00	5.693	5.760	-0.067	1.000	101548	0.2014	Target=2.56		3806	
363.10 > 169.00	5.693	5.760	-0.067	1.000	39996		2.54(1.28-3.85)		1968	
D 26 13C4 PFHpA										
367.10 > 322.00	5.693	5.760	-0.067	1.081	1057710	2.43		121	59915	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.892	5.971	-0.079	0.933	307371	3.41		71.6	19354	
D 34 13C8 PFOA										
421.10 > 376.00	6.097	6.183	-0.086	0.998	1442447	1.69		84.5	90279	
36 PFOA										
413.00 > 369.00	6.109	6.183	-0.074	1.002	250735	0.4240	Target=2.35		14101	
413.00 > 169.00	6.109	6.183	-0.074	1.002	101843		2.46(1.18-3.53)		20241	
* 35 13C4 PFOA										
417.10 > 372.00	6.109	6.183	-0.074		4000871	5.00			773870	
* 37 18O2 PFHxS										
403.00 > 83.90	6.317	6.407	-0.090		1033336	1.89			59997	
40 PFHxS										
398.70 > 79.90	6.330	6.407	-0.077	1.002	36120	0.0966	Target=3.23		2485	
398.70 > 98.90	6.330	6.407	-0.077	1.002	12240		2.95(1.62-4.85)		2771	
D 38 13C3 PFHxS										
402.10 > 79.90	6.317	6.407	-0.090	1.000	858771	1.53		80.9	37470	
* 42 13C5 PFNA										
468.00 > 423.00	6.504	6.595	-0.091		1435590	2.00			61789	
D 41 13C9 PFNA										
472.10 > 427.00	6.504	6.595	-0.091	1.000	1171115	1.59		79.7	66962	
43 PFNA										
463.00 > 419.00	6.517	6.595	-0.078	1.002	101956	0.2118	Target=2.70		8732	
463.00 > 219.00	6.517	6.595	-0.078	1.002	30366		3.36(1.35-4.05)		5208	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.692	6.774	-0.082	1.059	248166	3.19		66.5	15091	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.855	6.947	-0.092	0.956	679823	4.22		84.4	39389	
D 51 13C6 PFDA										
519.10 > 474.10	6.917	7.014	-0.097	1.000	1156034	1.57		78.7	48501	
53 PFDA										
512.90 > 469.00	6.917	7.014	-0.097	1.000	20731	0.0416	Target=5.26		1003	
512.90 > 219.00	6.917	7.014	-0.097	1.000	4379		4.73(2.63-7.89)		239	
* 52 13C2 PFDA										
515.10 > 470.10	6.917	7.014	-0.097		1393250	2.00			58747	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.039	7.137	-0.098	0.981	563267	4.26		85.2	30341	
D 56 13C8 PFOS										
507.10 > 79.90	7.173	7.285	-0.112	1.000	845450	1.78		93.3	36623	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 57 13C4 PFOS										
502.80 > 79.90	7.173	7.285	-0.112		884530	1.91			50729	
58 PFOS										
498.90 > 79.90	7.173	7.285	-0.112	1.000	177801	0.3161	Target=4.45		26795	
498.90 > 98.80	7.186	7.285	-0.099	1.002	33503		5.31(2.23-6.68)		6844	
D 59 13C7 PFUnA										
570.00 > 525.10	7.342	7.438	-0.096	1.061	1154769	1.68		84.2	70215	
D 82 PFDoA										
615.10 > 570.00	7.742	7.862	-0.120	1.119	945739	1.64		82.0	62414	
D 64 13C8 FOSA										
506.10 > 77.80	7.987	8.022	-0.035	1.113	919905	1.63		81.5	58047	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.472	8.581	-0.109	1.225	646430	1.59		79.3	33550	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.781	8.789	-0.008	1.224	384637	4.38		87.6	8872	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.868	8.876	-0.008	1.236	185542	1.25		62.6	10451	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.949	8.957	-0.008	1.248	492989	4.32		86.3	14628	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.027	9.034	-0.007	1.258	206549	1.24		61.8	12629	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 20:06:06 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-16.d

Injection Date: 17-Feb-2025 19:22:59 Instrument ID: 30576

Lims ID: 410-207884-A-6-B Lab Sample ID: 410-207884-6

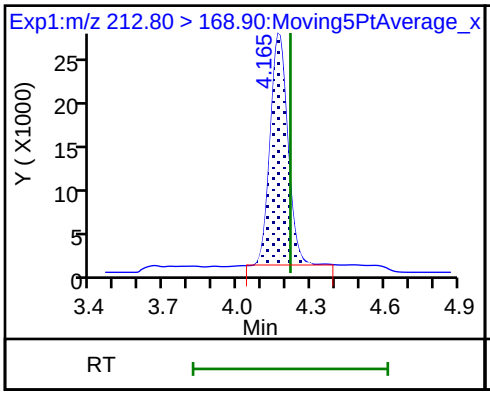
Client ID: MW-33S-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 21 Worklist Smp#: 89

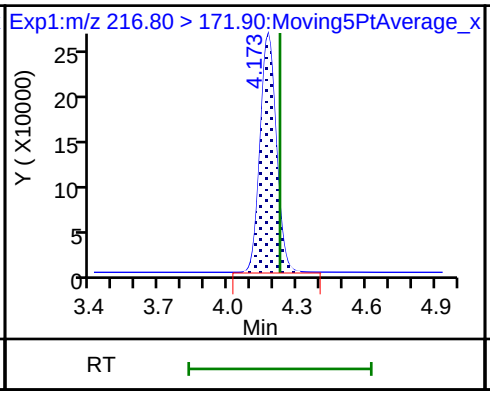
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

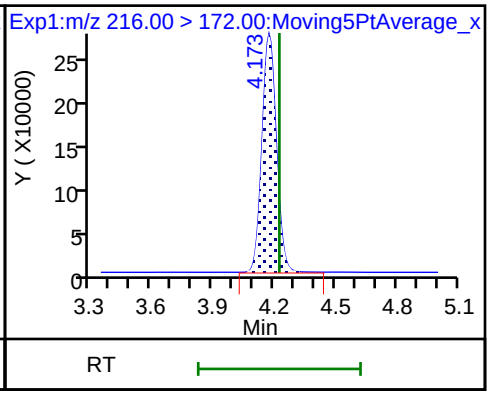
5 PFBA



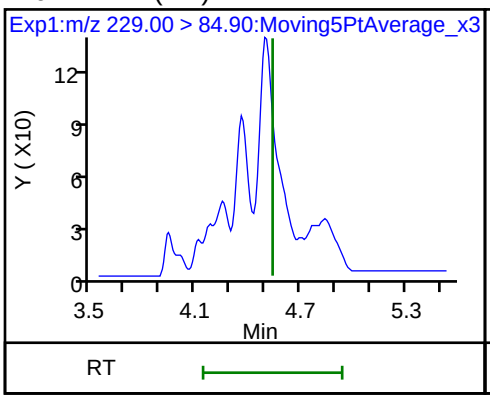
D 3 13C4-PFBA



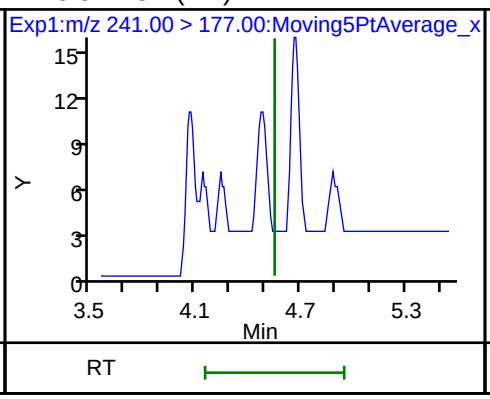
* 4 13C3PFBA



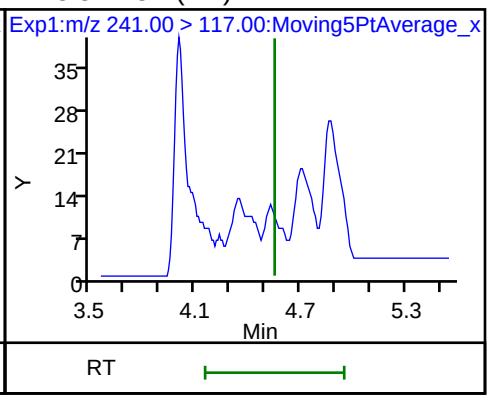
6 PFMPA (ND)



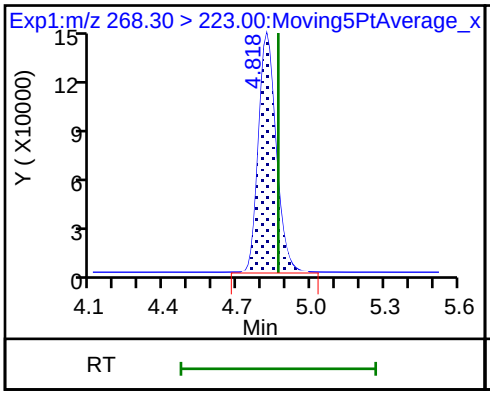
7 3:3 FTCA (ND)



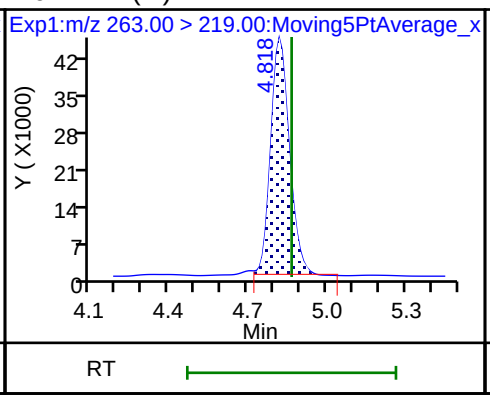
7 3:3 FTCA (ND)



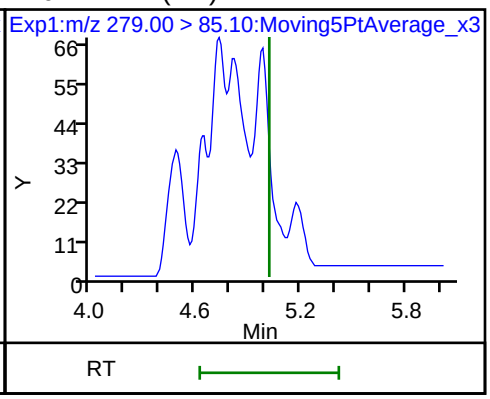
D 8 13C5 PFPeA



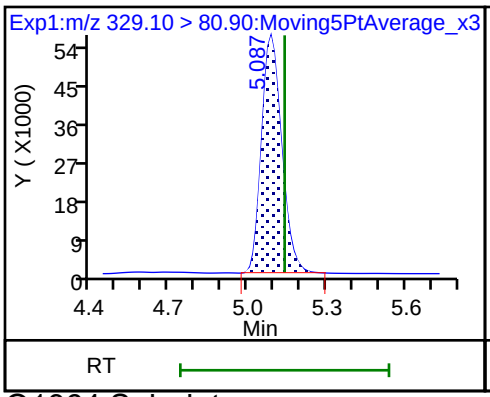
9 PFPA (M)



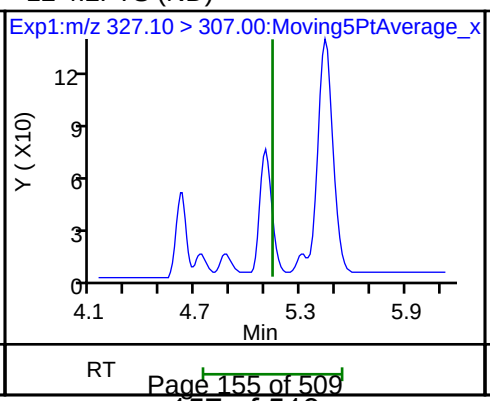
10 PFMBA (ND)



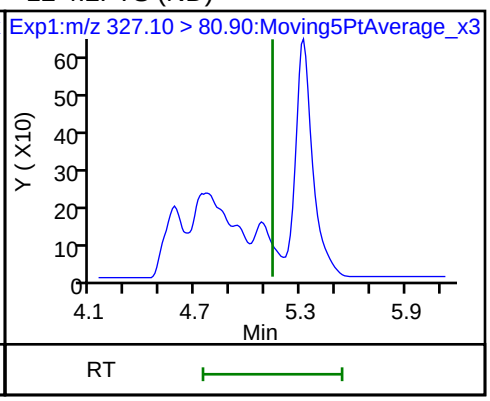
D 11 13C2-4:2FTS



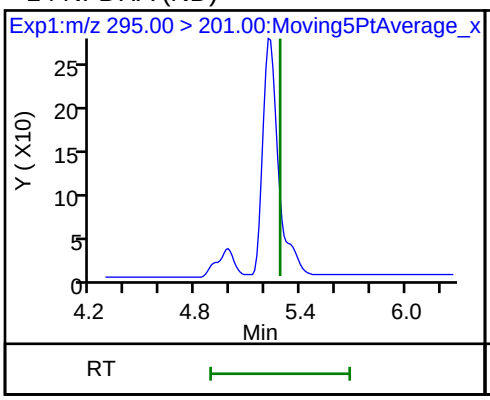
12 4:2FTS (ND)



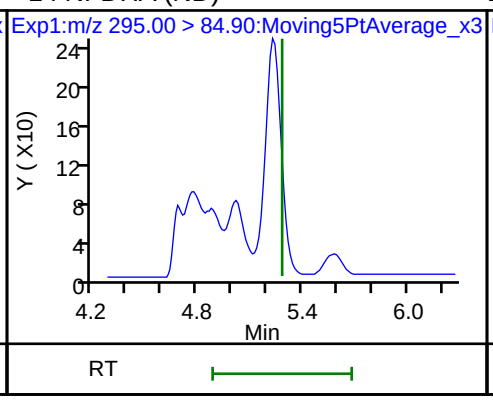
12 4:2FTS (ND)



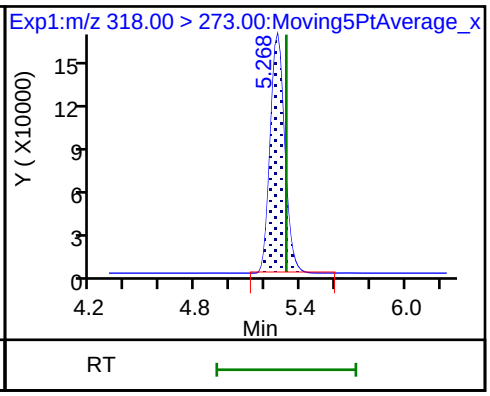
14 NFDHA (ND)



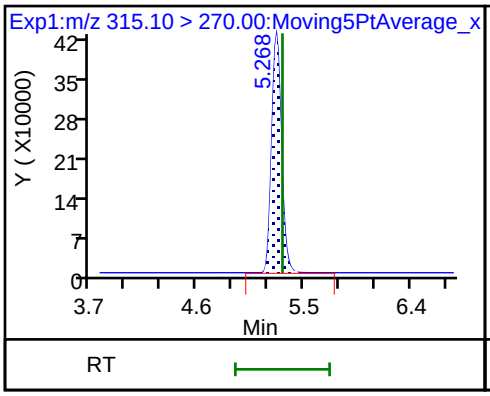
14 NFDHA (ND)



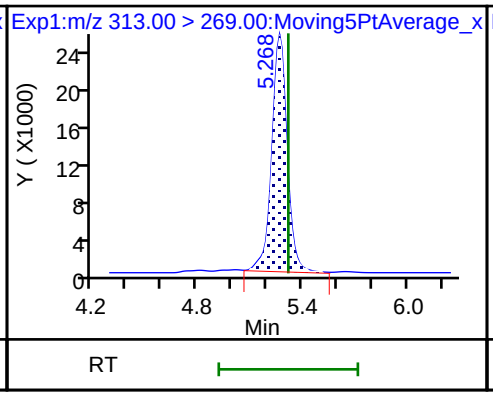
D 15 13C5 PFHxA



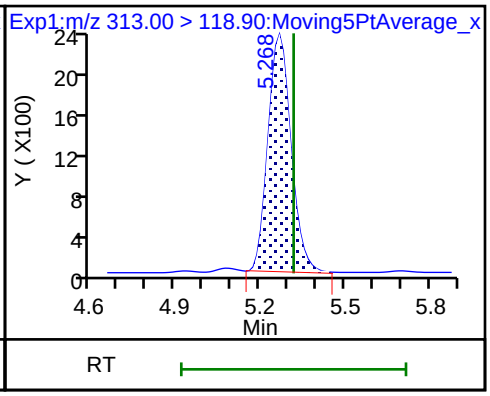
* 16 13C2 PFHxA



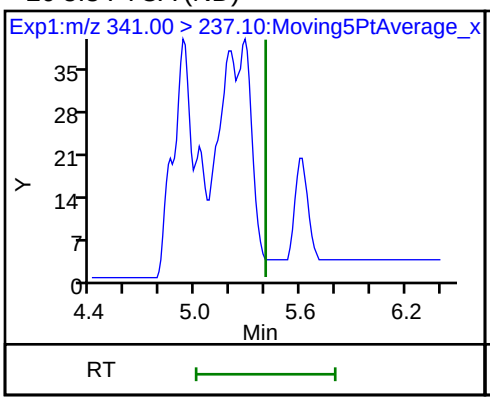
17 PFHxA



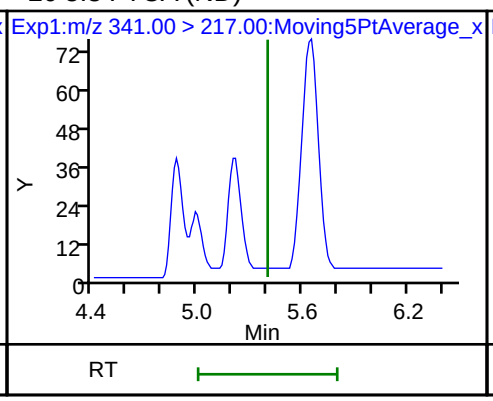
17 PFHxA



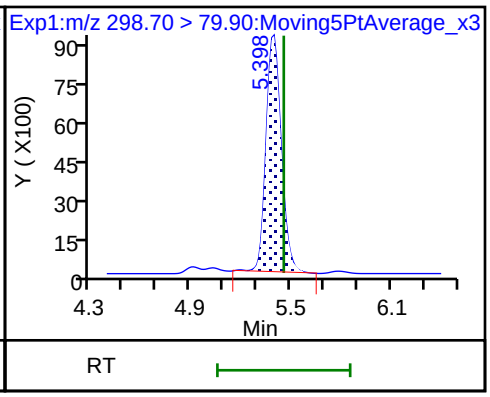
20 5:3 FTCA (ND)



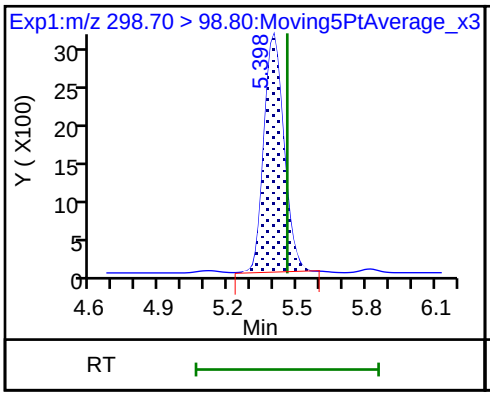
20 5:3 FTCA (ND)



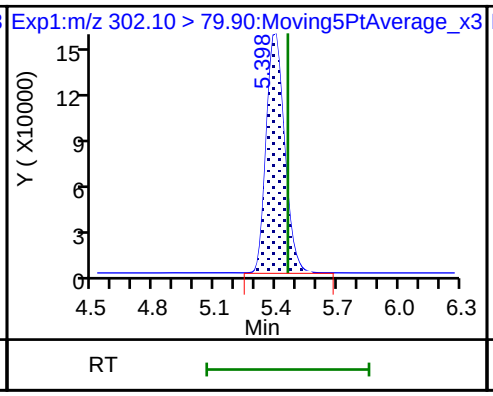
19 PFBS



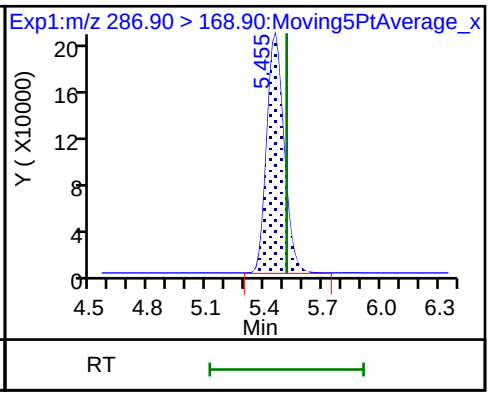
19 PFBS



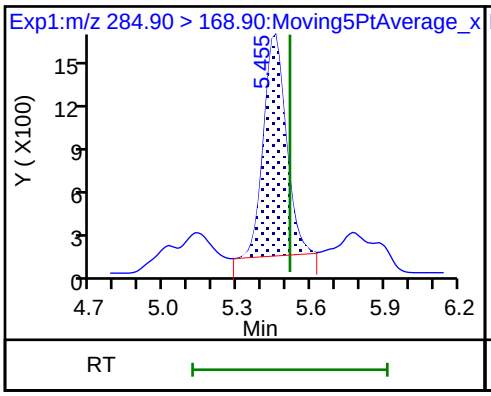
D 18 13C3 PFBS



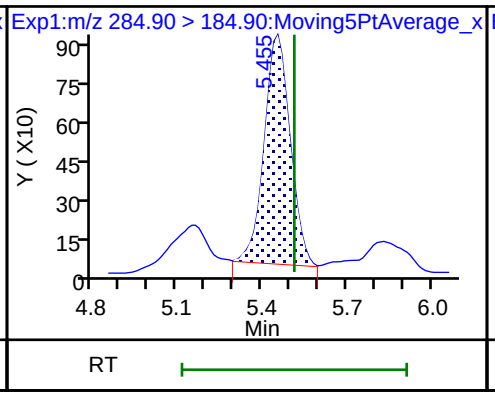
D 21 13C3 HFPO-DA



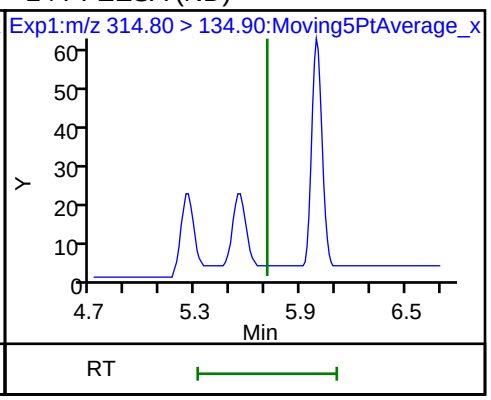
22 HFPO-DA



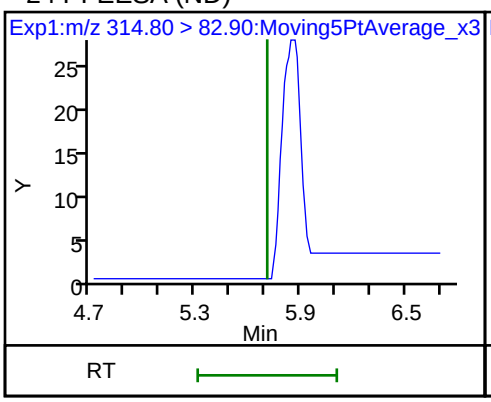
22 HFPO-DA



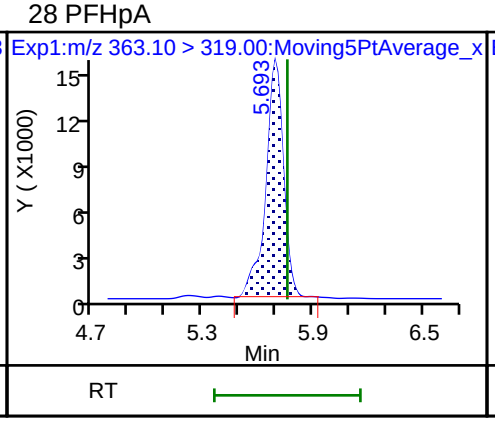
24 PFEESA (ND)



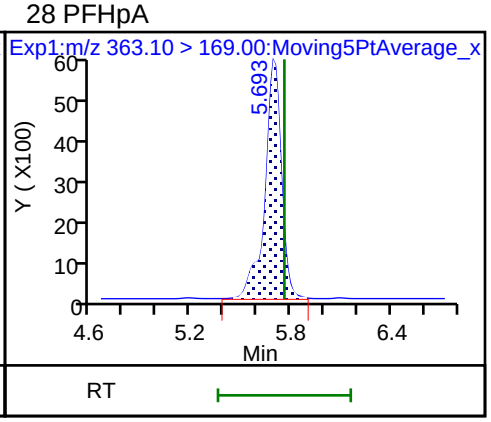
24 PFEESA (ND)



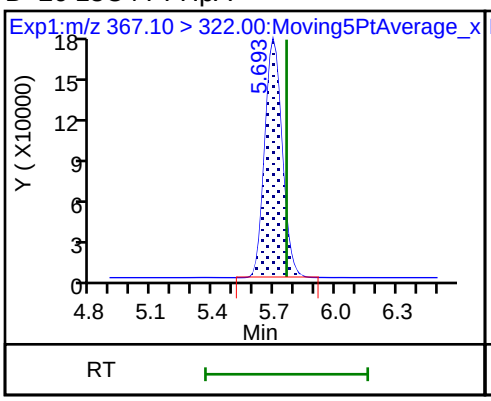
28 PFHpA



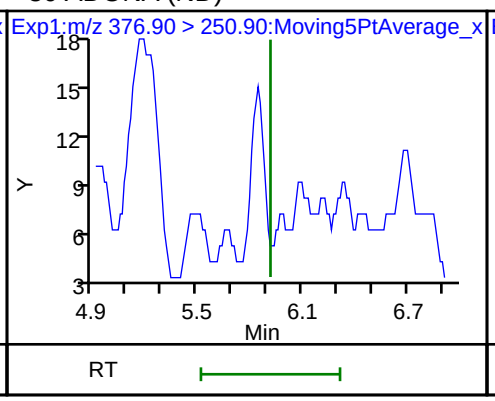
28 PFHpA



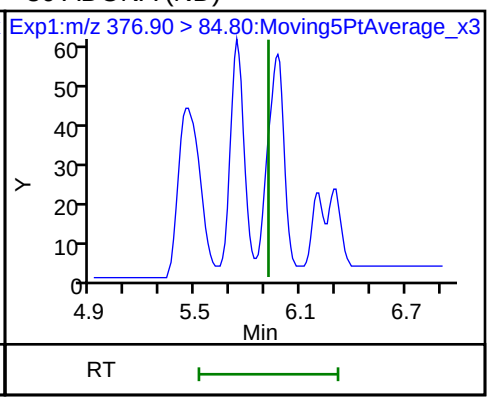
D 26 13C4 PFHpA



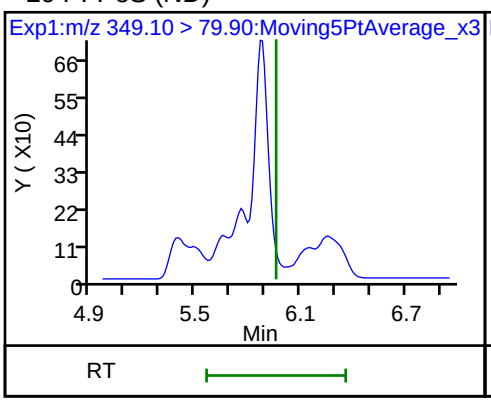
30 ADONA (ND)



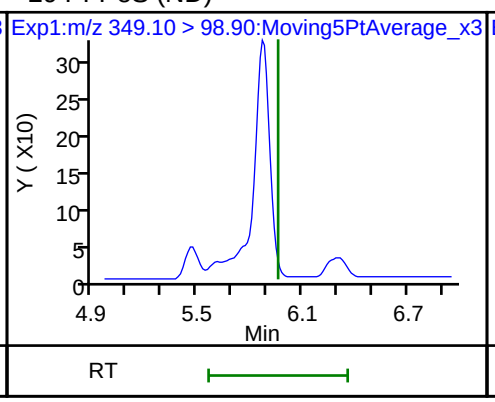
30 ADONA (ND)



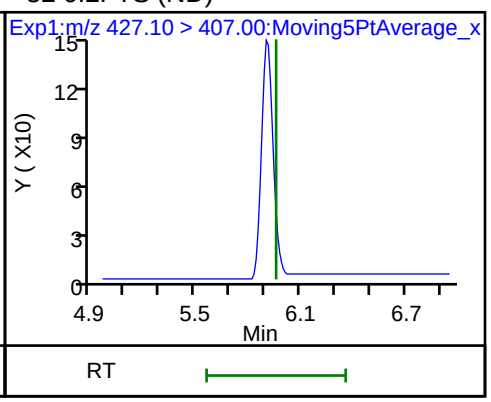
29 PFPeS (ND)



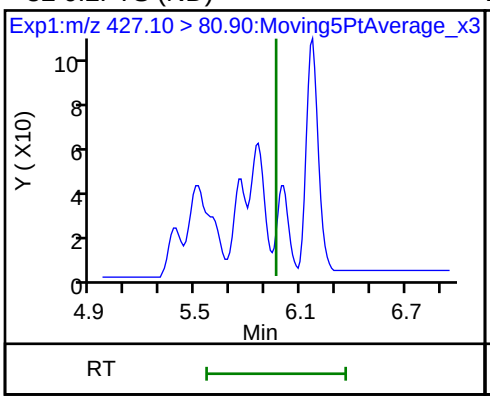
29 PFPeS (ND)



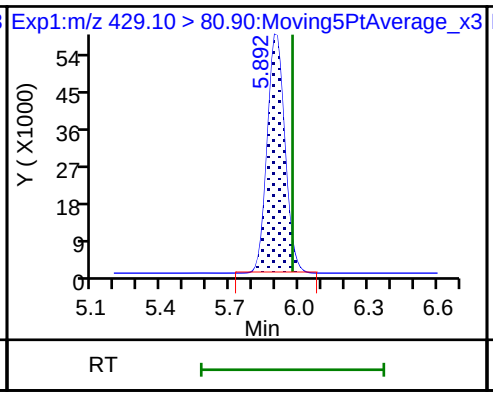
32 6:2FTS (ND)



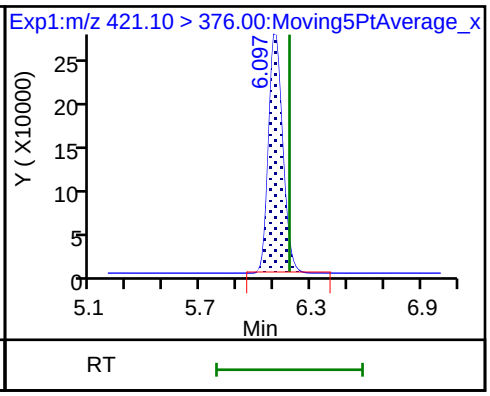
32 6:2FTS (ND)



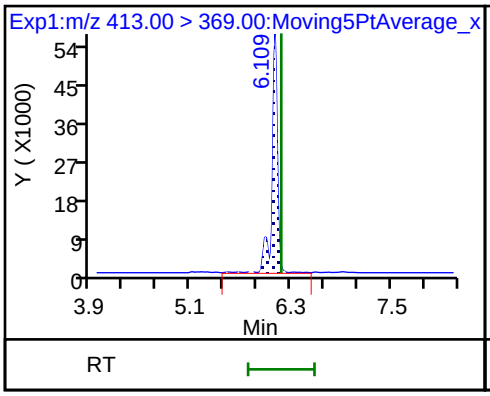
D 31 13C2-6:2FTS



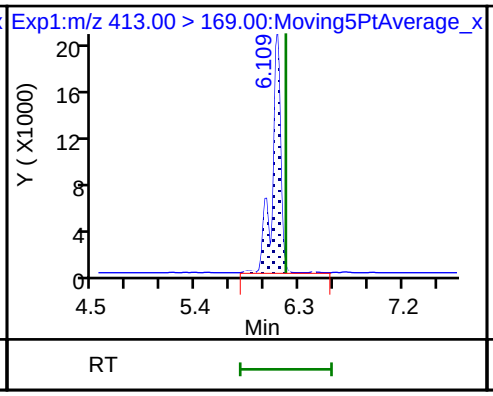
D 34 13C8 PFOA



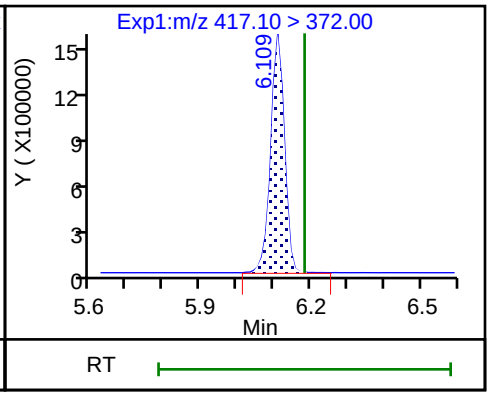
36 PFOA



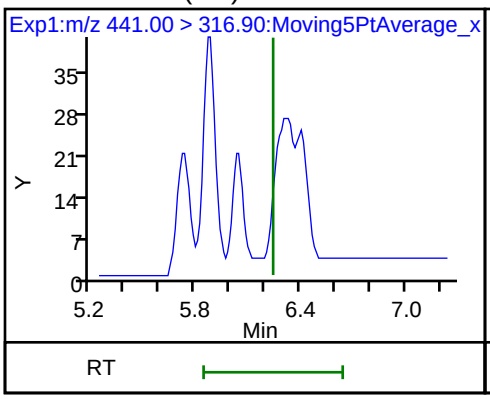
36 PFOA



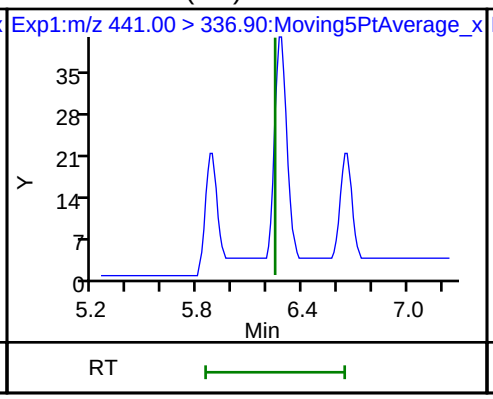
* 35 13C4 PFOA



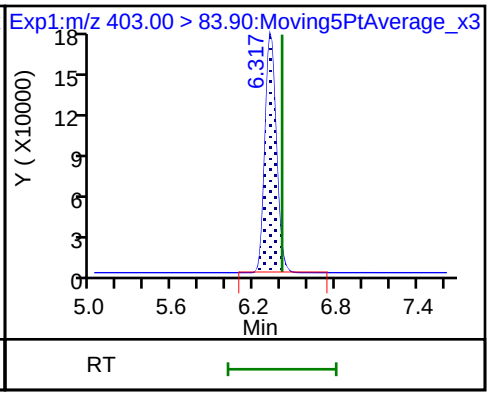
39 7:3 FTCA (ND)



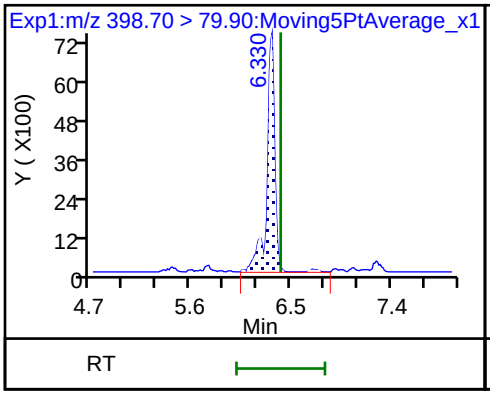
39 7:3 FTCA (ND)



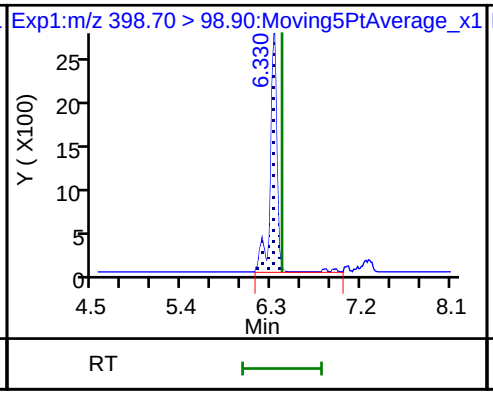
* 37 18O2 PFHxS



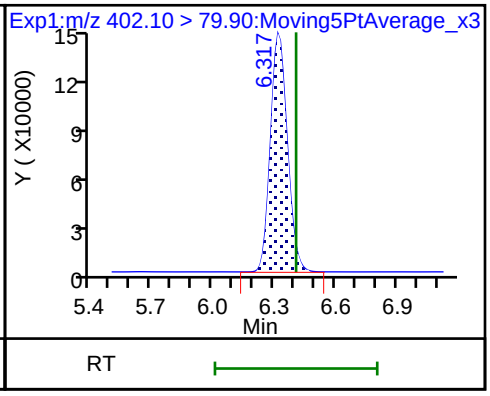
40 PFHxS



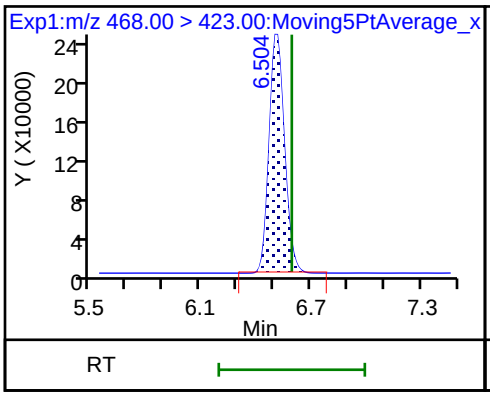
40 PFHxS



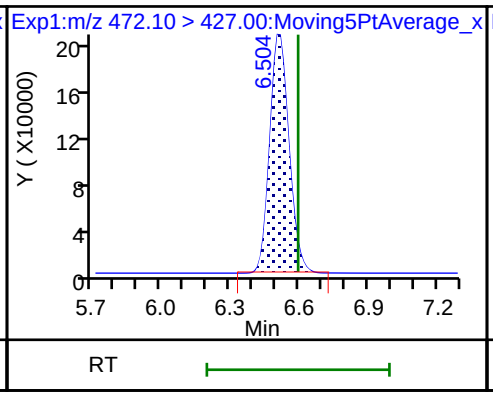
D 38 13C3 PFHxS



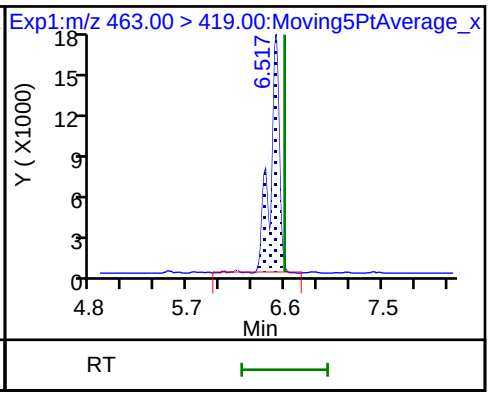
* 42 13C5 PFNA



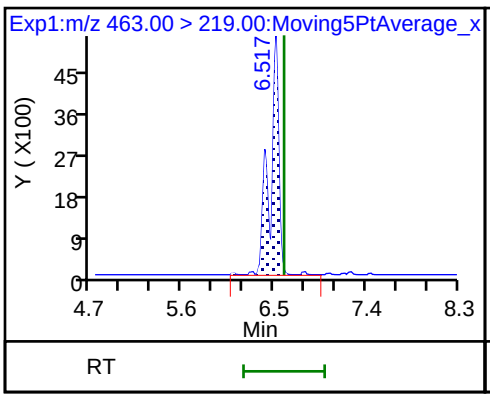
D 41 13C9 PFNA



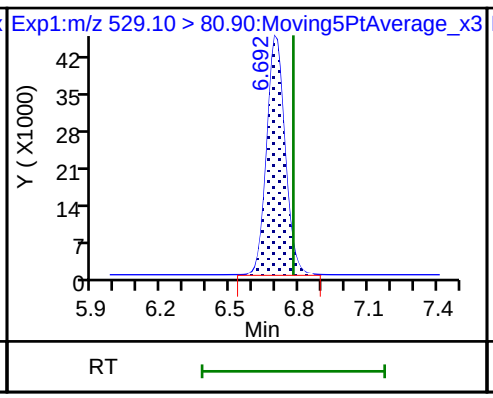
43 PFNA



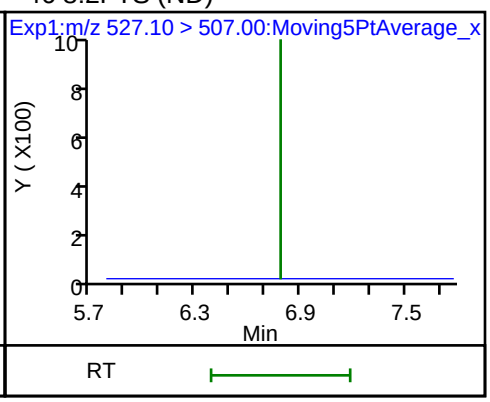
43 PFNA



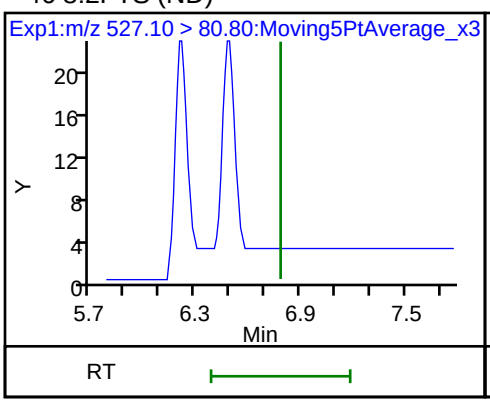
D 45 13C2-8:2FTS



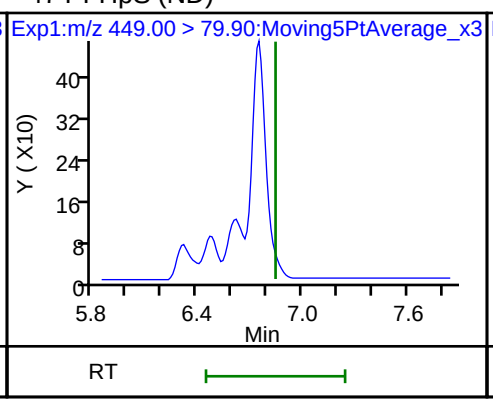
46 8:2FTS (ND)



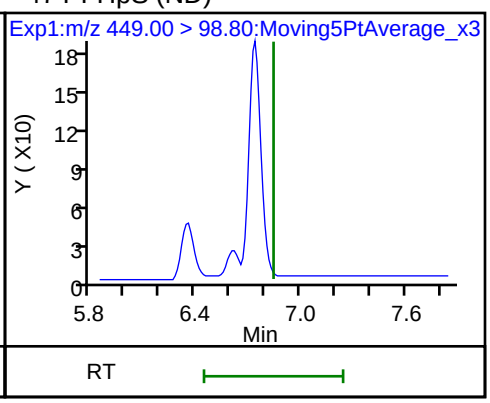
46 8:2FTS (ND)



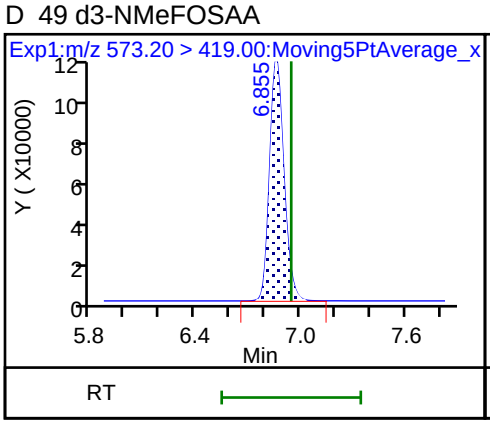
47 PFHpS (ND)



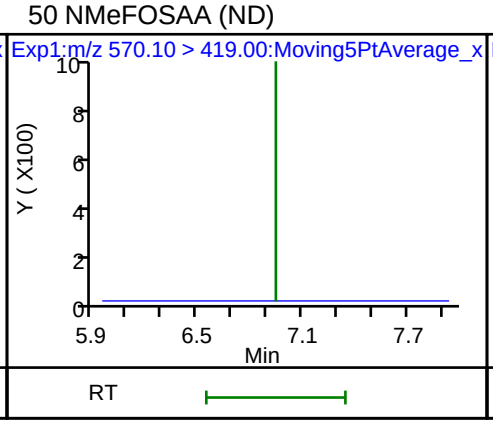
47 PFHpS (ND)



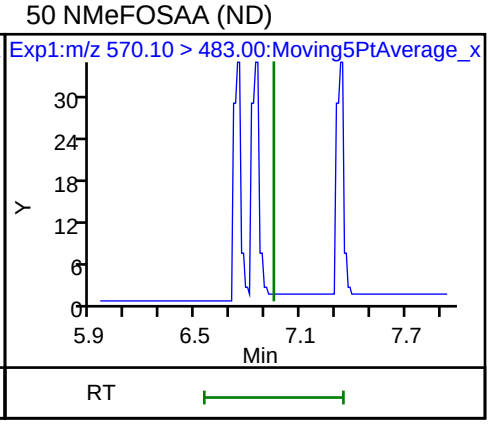
D 49 d3-NMeFOSAA



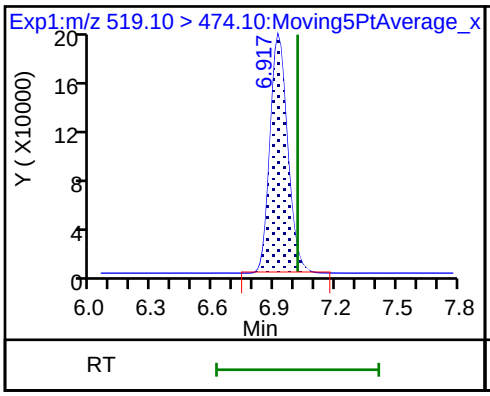
50 NMeFOSAA (ND)



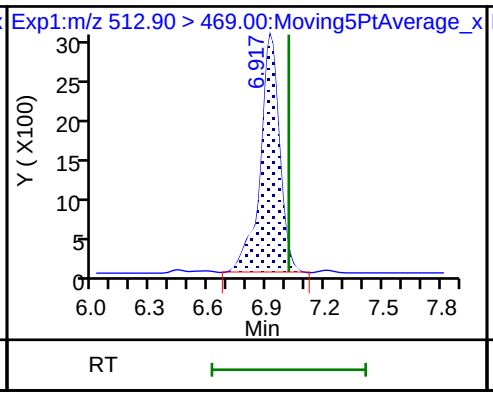
50 NMeFOSAA (ND)



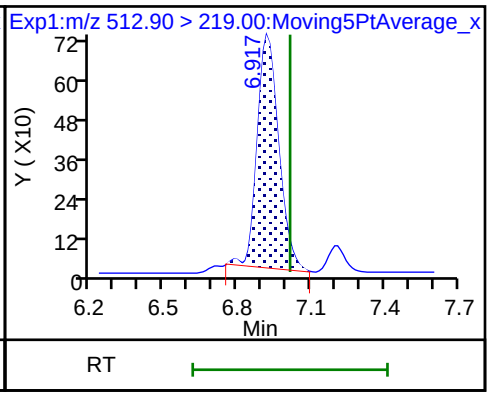
D 51 13C6 PFDA



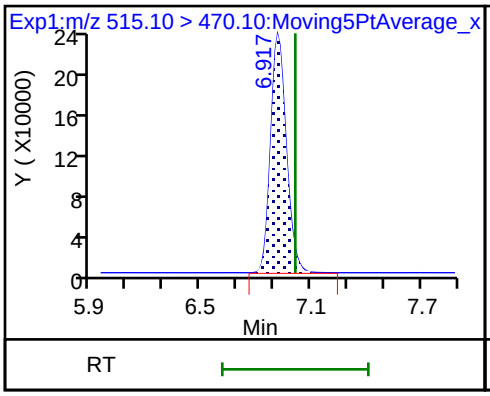
53 PFDA



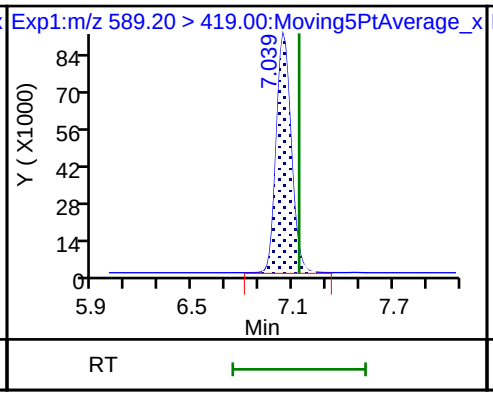
53 PFDA



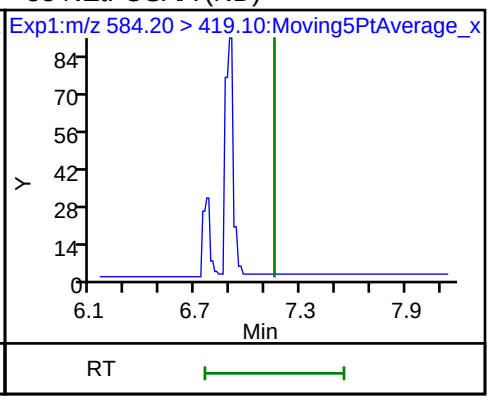
* 52 13C2 PFDA



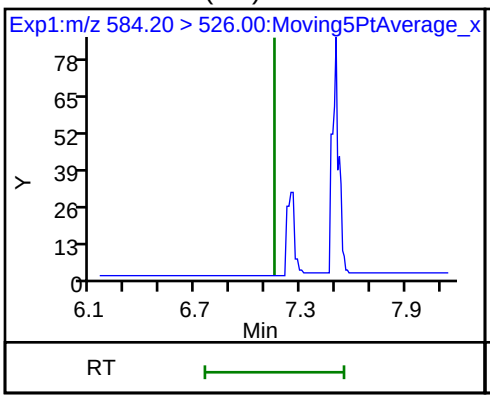
D 54 d5-NEtFOSAA



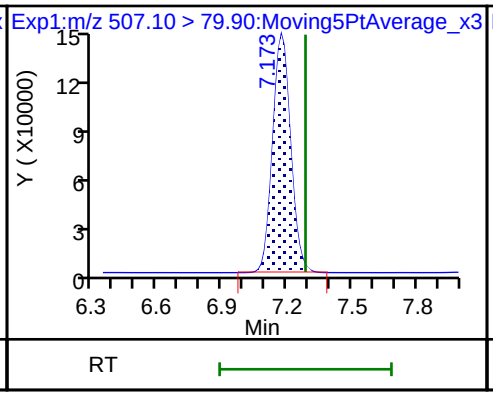
55 NEtFOSAA (ND)



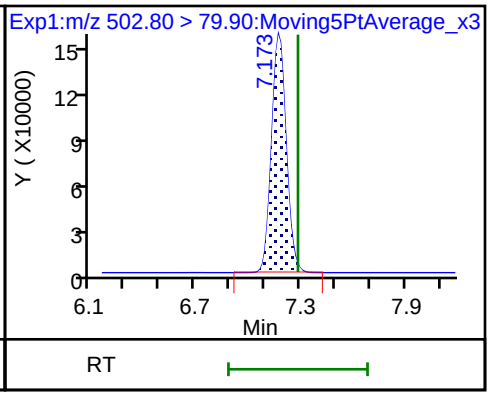
55 NEtFOSAA (ND)



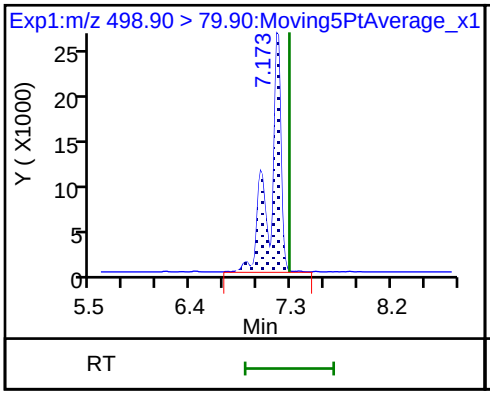
D 56 13C8 PFOS



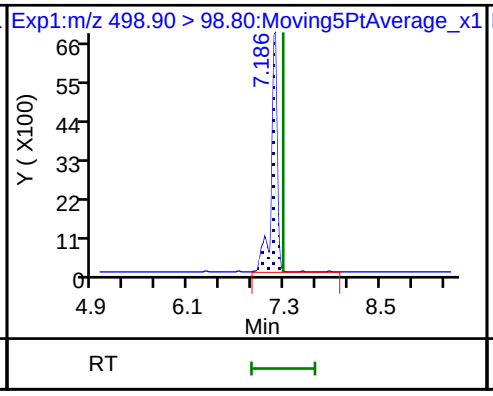
* 57 13C4 PFOS



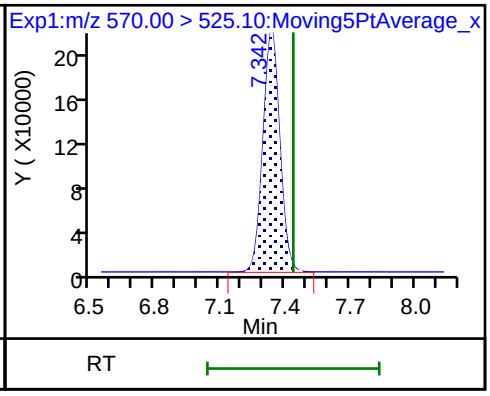
58 PFOS



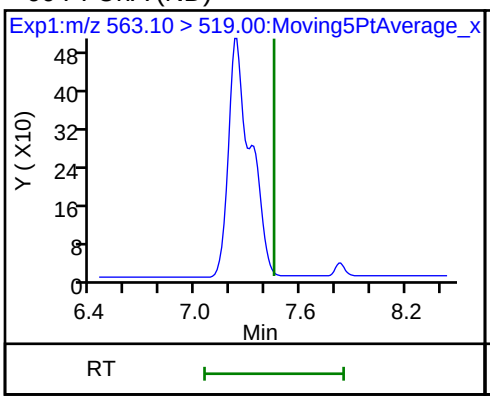
58 PFOS



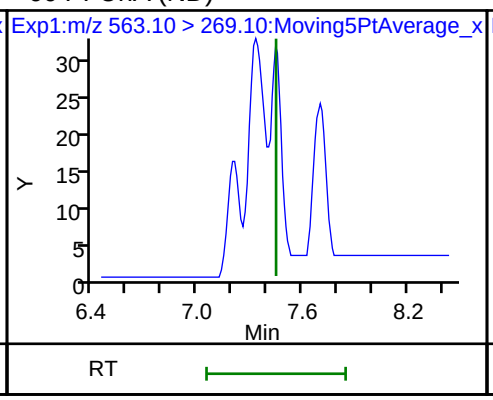
D 59 13C7 PFUnA



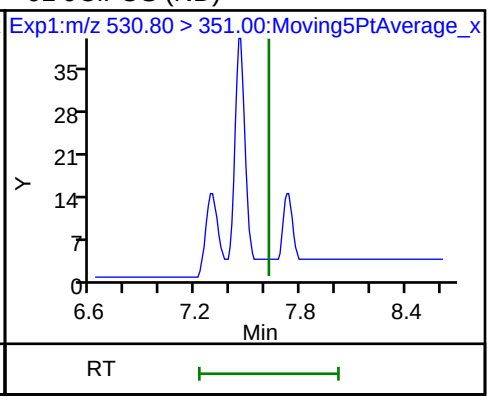
60 PFUnA (ND)



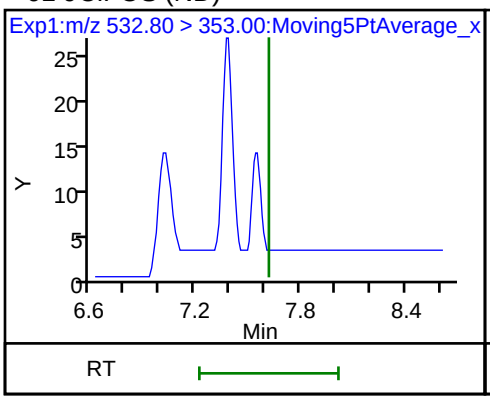
60 PFUnA (ND)



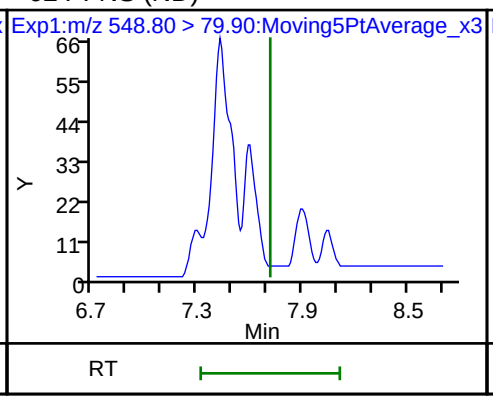
61 9ClFOS (ND)



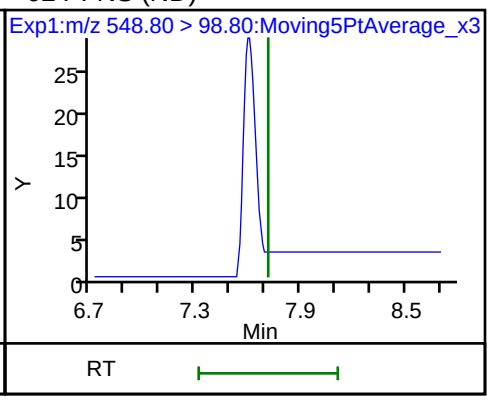
61 9ClFOS (ND)



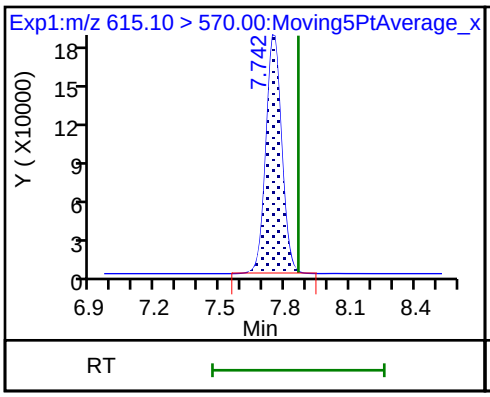
62 PFNS (ND)



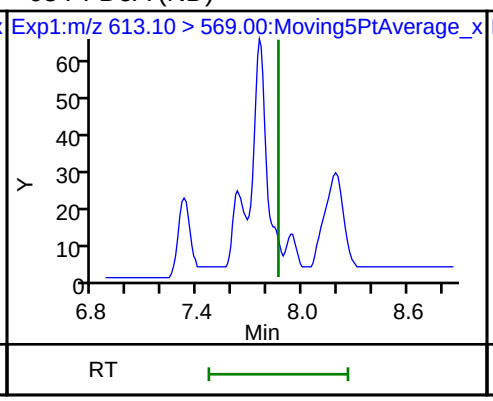
62 PFNS (ND)



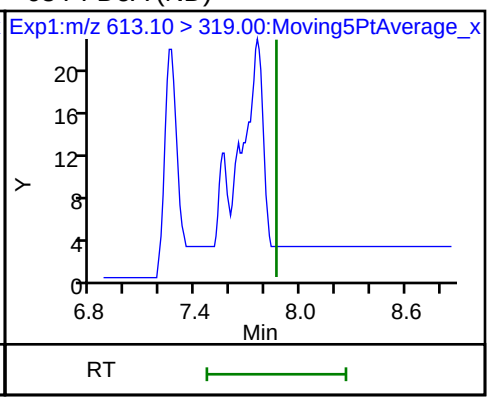
D 82 PFDoA



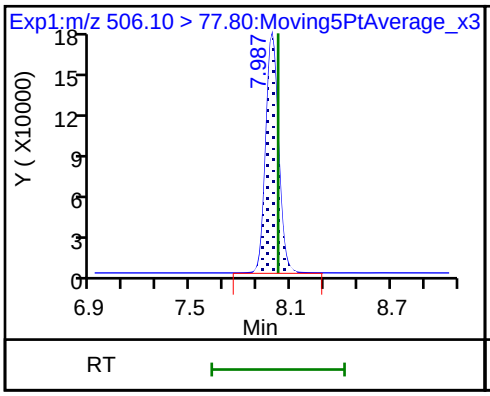
63 PFDoA (ND)



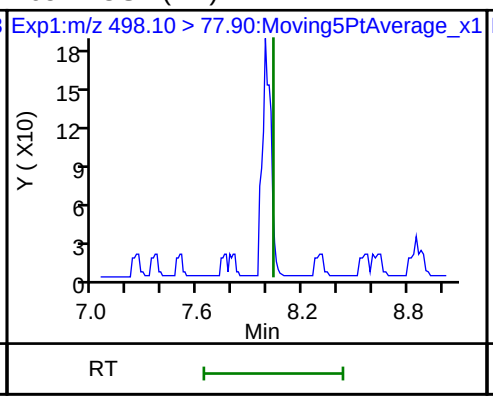
63 PFDoA (ND)



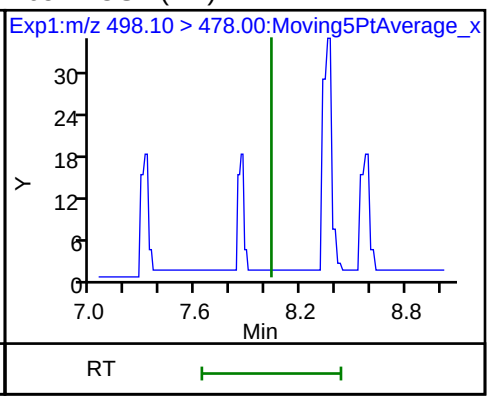
D 64 13C8 FOSA



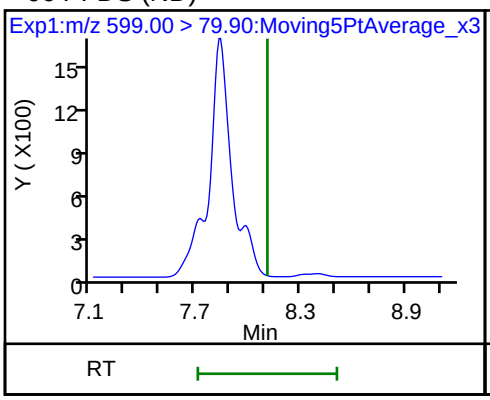
65 PFOSA (ND)



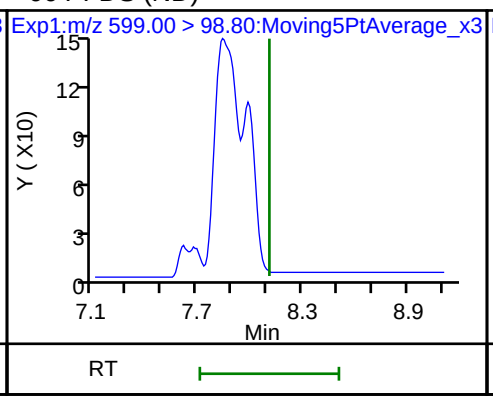
65 PFOSA (ND)



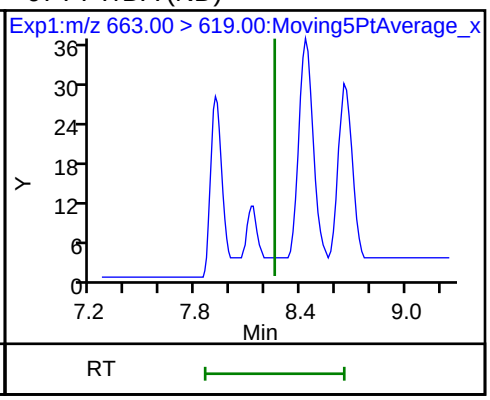
66 PFDS (ND)



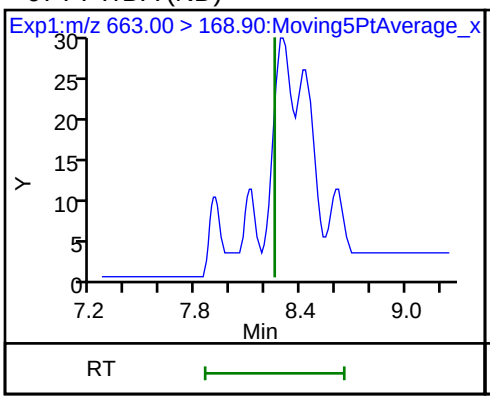
66 PFDS (ND)



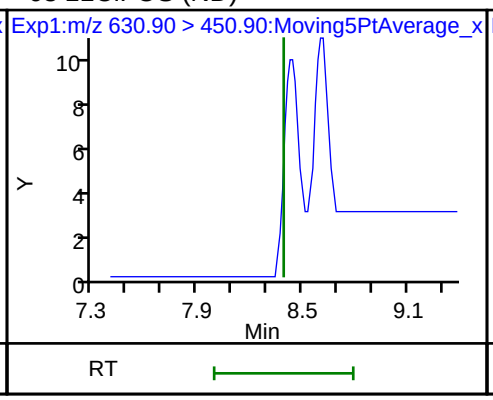
67 PFTrDA (ND)



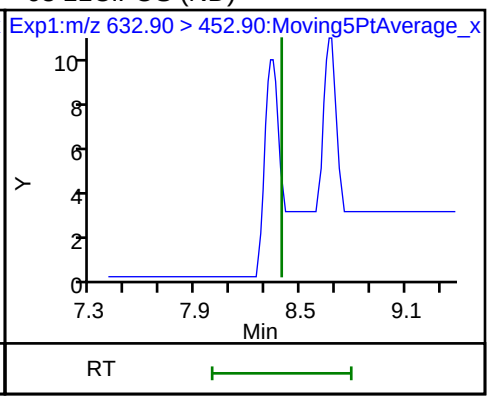
67 PFTrDA (ND)



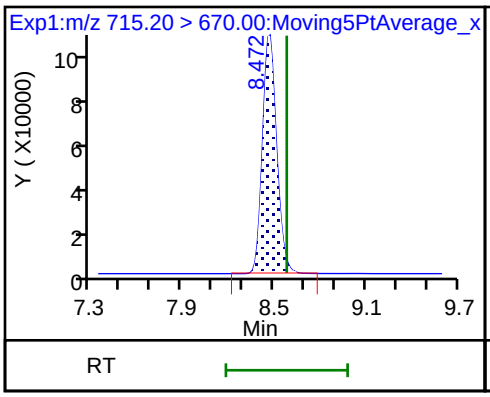
68 11ClFOS (ND)



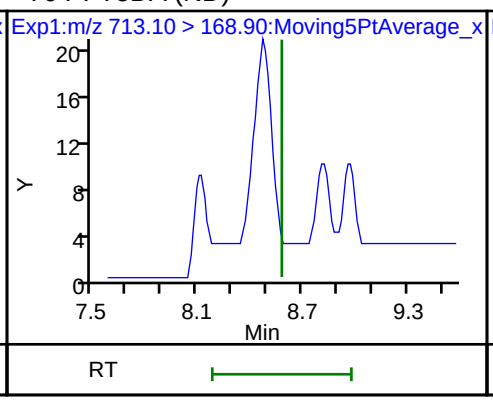
68 11ClFOS (ND)



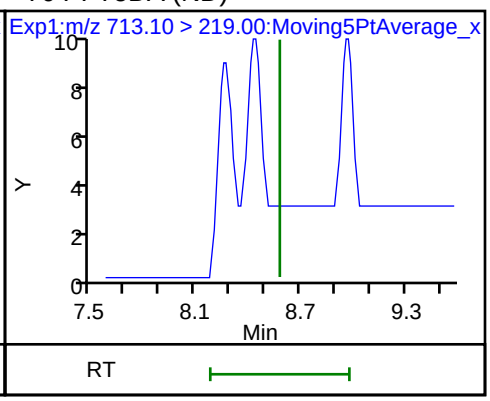
D 69 13C2 PFTeDA



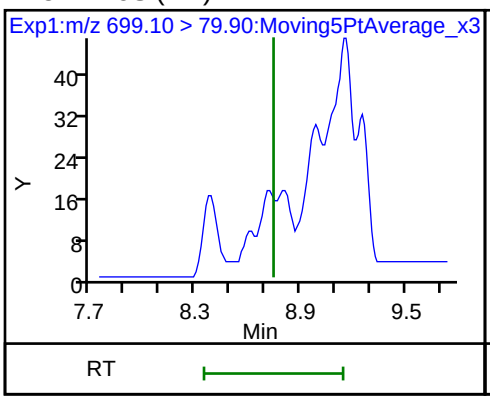
70 PFTeDA (ND)



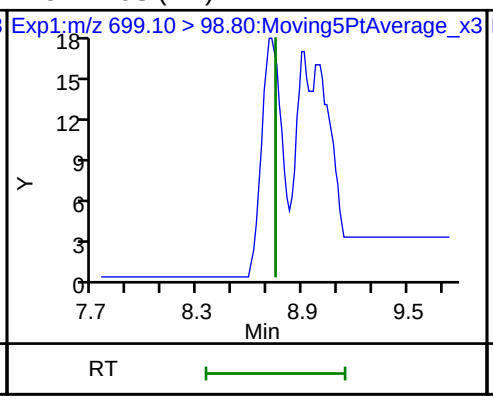
70 PFTeDA (ND)



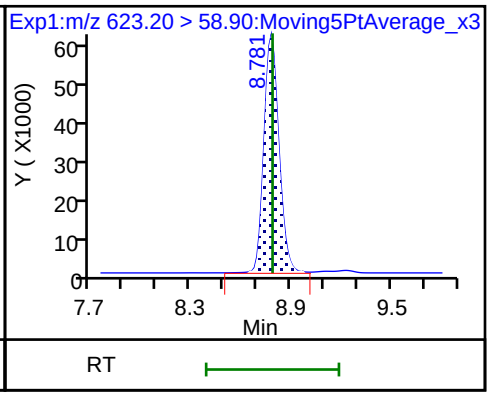
73 PFDoS (ND)



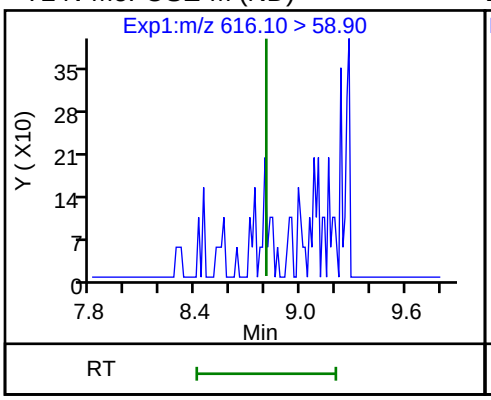
73 PFDoS (ND)



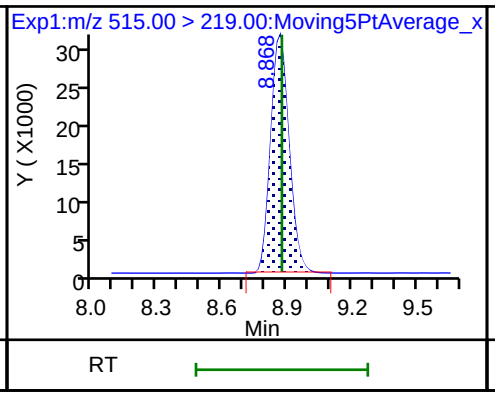
D 71 d7-N-Me-FOSE



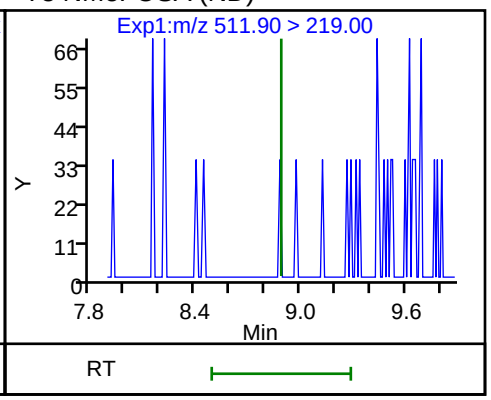
72 N-MeFOSE-M (ND)



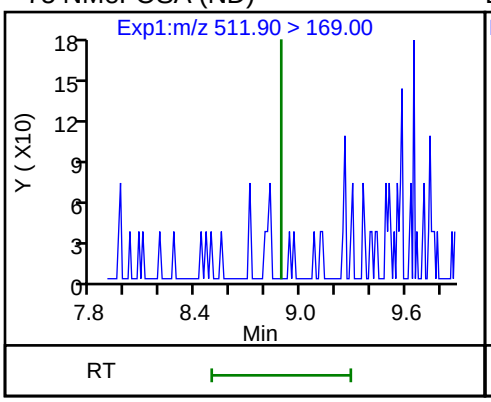
D 74 d3-NMePFOSA



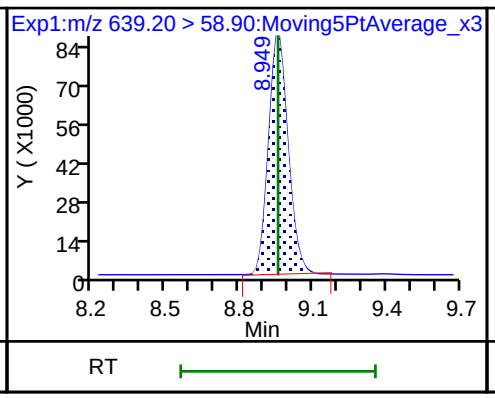
75 NMeFOSA (ND)



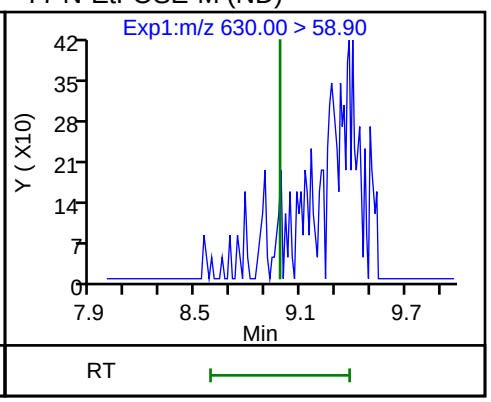
75 NMeFOSA (ND)



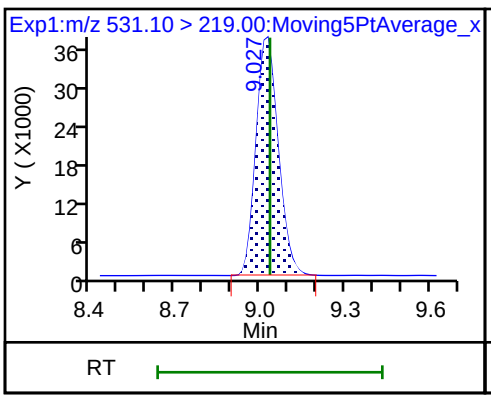
D 76 d9-N-EtFOSE



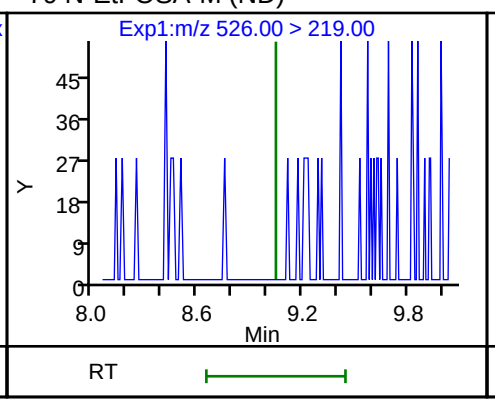
77 N-EtFOSE-M (ND)



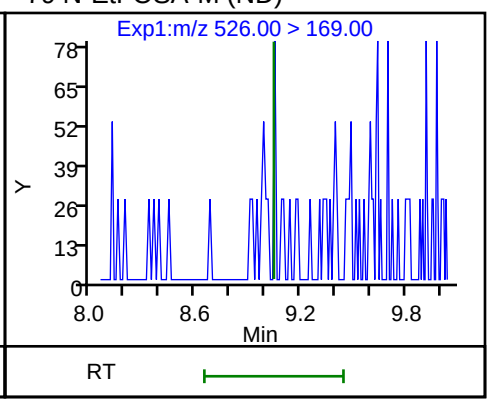
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

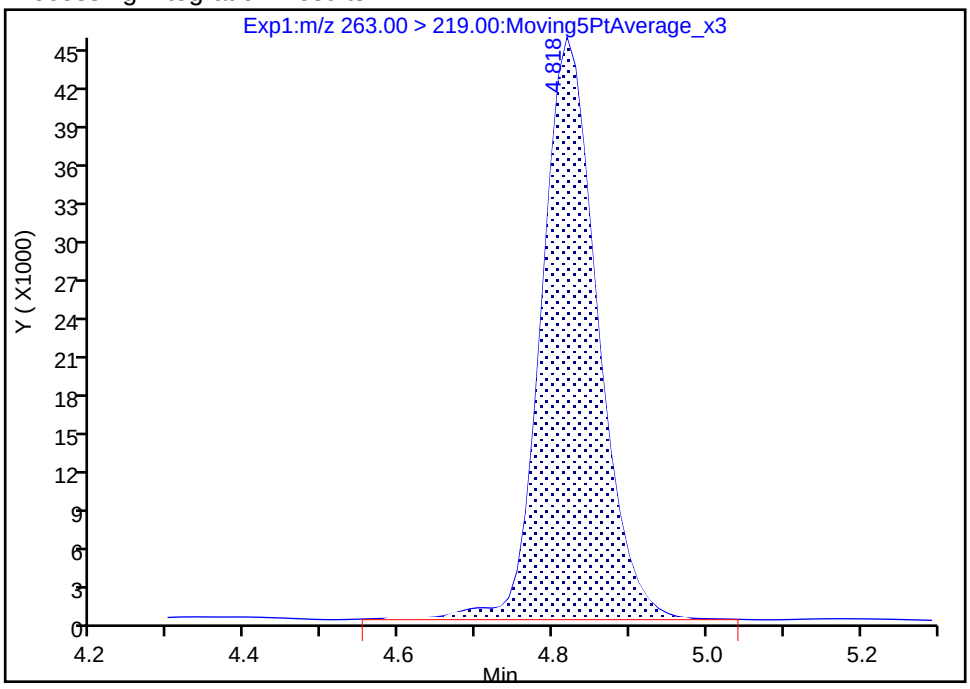
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-16.d				
Injection Date:	17-Feb-2025 19:22:59	Instrument ID:	30576		
Lims ID:	410-207884-A-6-B	Lab Sample ID:	410-207884-6		
Client ID:	MW-33S-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	21	Worklist Smp#:	89
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

9 PFPA, CAS: 2706-90-3

Signal: 1

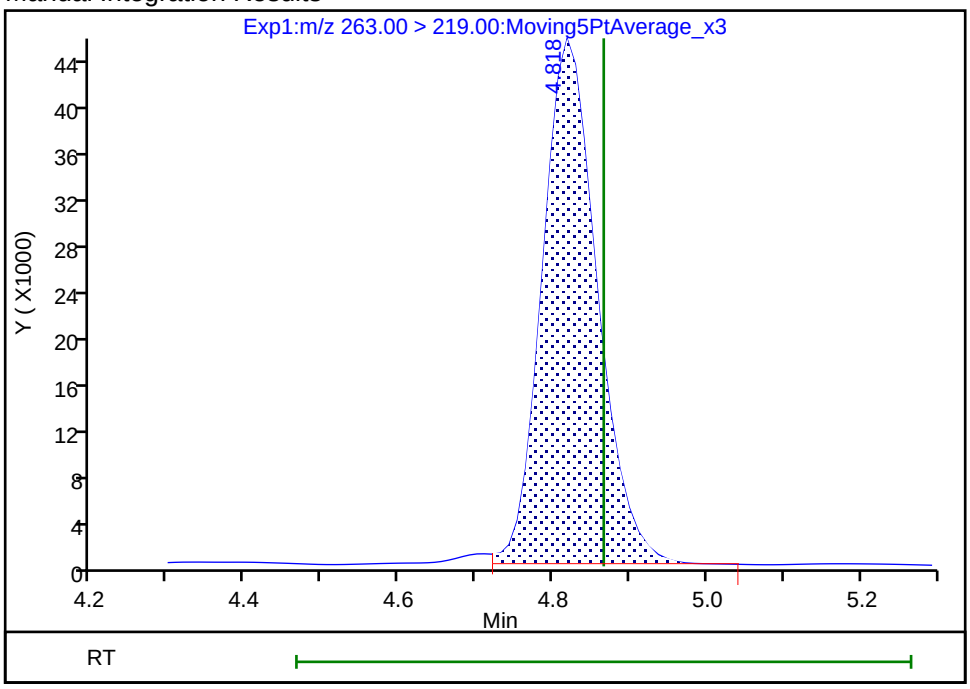
Processing Integration Results

RT: 4.82
Area: 230063
Amount: 0.440332
Amount Units: ng/ml



Manual Integration Results

RT: 4.82
Area: 226902
Amount: 0.434282
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 20:04:24 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33S-FD-021225
Lab Sample ID: 410-207884-7

Matrix: Water
Lab File ID: 25FEB17W-17.d

Analysis Method: 1633
Date Collected: 02/12/2025 14:35

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.5(mL)
Date Analyzed: 02/17/2025 19:36

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	8.2		3.5	0.97
2706-90-3	Perfluoropentanoic acid	14		1.8	0.53
307-24-4	Perfluorohexanoic acid	12		1.8	0.44
375-85-9	Perfluoroheptanoic acid	6.6		1.8	0.71
335-67-1	Perfluorooctanoic acid	14		1.8	0.80
375-95-1	Perfluorononanoic acid	7.3		1.8	0.44
335-76-2	Perfluorodecanoic acid	1.2	J	1.8	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	4.0		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	3.7		1.8	0.71
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	11		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.53
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.5	0.88
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.5	0.88
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.5	0.88
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
31506-32-8	NMeFOSA	ND		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44
2355-31-9	NMeFOSAA	ND		1.8	0.44
2991-50-6	NEtFOSAA	ND		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33S-FD-021225
Lab Sample ID: 410-207884-7

Matrix: Water
Lab File ID: 25FEB17W-17.d

Analysis Method: 1633
Date Collected: 02/12/2025 14:35

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.5(mL)
Date Analyzed: 02/17/2025 19:36

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		8.8	2.2
13252-13-6	HFPO-DA	ND		1.8	0.66
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.44
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.44
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44
113507-82-7	PFEESA	ND		1.8	0.44
356-02-5	3:3 FTCA	ND		3.5	0.88
914637-49-3	5:3 FTCA	ND		8.8	2.5
812-70-4	7:3 FTCA	ND		8.8	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33S-FD-021225
Lab Sample ID: 410-207884-7

Matrix: Water
Lab File ID: 25FEB17W-17.d

Analysis Method: 1633
Date Collected: 02/12/2025 14:35

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 141.5(mL)
Date Analyzed: 02/17/2025 19:36

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	83.1		5-130
STL01893	13C5 PFPeA	106	cn	40-130
STL02577	13C5 PFHxA	103	cn	40-130
STL01892	13C4 PFHpA	104	cn	40-130
STL01052	13C8 PFOA	77.6		40-130
STL02578	13C9 PFNA	73.5		40-130
STL02579	13C6 PFDA	78.2		40-130
STL02580	13C7 PFUnA	82.4	cn	30-130
STL02116	13C2 PFTeDA	77.6	cn	10-130
STL02337	13C3 PFBS	84.2		40-135
STL02581	13C3 PFHxS	76.6		40-130
STL01054	13C8 PFOS	83.1		40-130
STL01056	13C8 FOSA	73.3		40-130
STL02118	d3-NMeFOSAA	69.3		40-170
STL02117	d5-NEtFOSAA	77.6		25-135
STL02395	M2-4:2 FTS	67.5		40-200
STL02279	M2-6:2 FTS	64.5		40-200
STL02280	M2-8:2 FTS	63.2		40-300
STL02255	13C3 HFPO-DA	102	cn	40-130
STL02277	d7-N-MeFOSE-M	77.6		10-130
STL02278	d9-N-EtFOSE-M	75.8		10-130
STL02704	d5-NEtPFOSA	53.5		10-130
STL02705	d3-NMePFOSA	53.4		10-130
STL00998	13C2 PFDoA	77.0		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-17.d
Lims ID: 410-207884-A-7-B
Client ID: MW-33S-FD-021125
Sample Type: Client
Inject. Date: 17-Feb-2025 19:36:37 ALS Bottle#: 22 Worklist Smp#: 90
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-7-B
Misc. Info.: Plate: 2 Rack: 1 410-0138392-090
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 20:05:57 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 20:05:57
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PFBA										
212.80 > 168.90	4.163	4.216	-0.053	0.998	135971	0.2328			931	
D 3 13C4-PFBA										
216.80 > 171.90	4.171	4.224	-0.053	1.000	1324582	1.66		83.1	67776	
* 4 13C3PFBA										
216.00 > 172.00	4.171	4.224	-0.053		1491996	2.00			25442	
D 8 13C5 PFPeA										
268.30 > 223.00	4.819	4.866	-0.047	0.915	729367	2.12		106	49078	
9 PFPA										
263.00 > 219.00	4.819	4.866	-0.047	1.000	217500	0.3972			7125	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.088	5.139	-0.051	0.805	305201	3.17		67.5	8089	
D 15 13C5 PFHxA										
318.00 > 273.00	5.269	5.318	-0.049	1.000	1028585	2.06		103	59974	
* 16 13C2 PFHxA										
315.10 > 270.00	5.269	5.318	-0.049		2821493	5.00			123726	
17 PFHxA										
313.00 > 269.00	5.269	5.318	-0.049	1.000	156311	0.3265	Target=10.68		4354	
313.00 > 118.90	5.269	5.318	-0.049	1.000	14330		10.91(5.34-16.02)		835	
19 PFBS										
298.70 > 79.90	5.385	5.456	-0.071	1.000	63109	0.1137	Target=2.96		2012	
298.70 > 98.80	5.385	5.456	-0.071	1.000	19924		3.17(1.48-4.44)		1122	
D 18 13C3 PFBS										
302.10 > 79.90	5.385	5.456	-0.071	0.852	1051984	1.57		84.2	42967	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.442	5.514	-0.072	1.033	1261479	2.05		102	50701	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 HFPO-DA										M
284.90 > 168.90	5.456	5.514	-0.058	1.003	10514	0.0167	Target=2.37		244	M
284.90 > 184.90	5.456	5.514	-0.058	1.003	3780		2.78(1.19-3.56)		117	M
28 PFHpA										M
363.10 > 319.00	5.695	5.760	-0.065	1.000	94085	0.1879	Target=2.56		1898	M
363.10 > 169.00	5.695	5.760	-0.065	1.000	38317		2.46(1.28-3.85)		1215	M
D 26 13C4 PFHpA										
367.10 > 322.00	5.695	5.760	-0.065	1.081	1050307	2.08		104	58231	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.893	5.971	-0.078	0.933	309839	3.07		64.5	19639	
D 34 13C8 PFOA										
421.10 > 376.00	6.098	6.183	-0.085	0.998	1480416	1.55		77.6	70059	
36 PFOA										
413.00 > 369.00	6.098	6.183	-0.085	1.000	239629	0.3938	Target=2.35		18112	
413.00 > 169.00	6.098	6.183	-0.085	1.000	98848		2.42(1.18-3.53)		20595	
* 35 13C4 PFOA										
417.10 > 372.00	6.110	6.183	-0.073		4468689	5.00			549802	
* 37 18O2 PFHxS										
403.00 > 83.90	6.318	6.407	-0.089		1156843	1.89			66196	
40 PFHxS										
398.70 > 79.90	6.318	6.407	-0.089	1.002	41923	0.1057	Target=3.23		2773	
398.70 > 98.90	6.306	6.407	-0.101	1.000	13967		3.00(1.62-4.85)		2920	
D 38 13C3 PFHxS										
402.10 > 79.90	6.306	6.407	-0.101	0.998	910927	1.45		76.6	39095	
* 42 13C5 PFNA										
468.00 > 423.00	6.506	6.595	-0.089		1609693	2.00			69920	
D 41 13C9 PFNA										
472.10 > 427.00	6.506	6.595	-0.089	1.000	1210816	1.47		73.5	69649	
43 PFNA										
463.00 > 419.00	6.506	6.595	-0.089	1.000	102925	0.2068	Target=2.70		9007	
463.00 > 219.00	6.506	6.595	-0.089	1.000	31735		3.24(1.35-4.05)		5298	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.682	6.774	-0.092	1.058	264213	3.03		63.2	15977	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.858	6.947	-0.089	0.957	656220	3.47		69.3	37812	
D 51 13C6 PFDA										
519.10 > 474.10	6.907	7.014	-0.107	1.000	1244559	1.56		78.2	52682	
53 PFDA										
512.90 > 469.00	6.907	7.014	-0.107	1.000	17496	0.0326	Target=5.26		869	
512.90 > 219.00	6.920	7.014	-0.094	1.002	3024		5.79(2.63-7.89)		179	
* 52 13C2 PFDA										
515.10 > 470.10	6.907	7.014	-0.107		1509308	2.00			63665	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.028	7.137	-0.109	0.981	602687	3.88		77.6	31689	
D 56 13C8 PFOS										
507.10 > 79.90	7.163	7.285	-0.122	1.000	884464	1.59		83.1	30292	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 57 13C4 PFOS										
502.80 > 79.90	7.163	7.285	-0.122		1038856	1.91			59508	
58 PFOS										
498.90 > 79.90	7.163	7.285	-0.122	1.000	179651	0.3053	Target=4.45		14376	
498.90 > 98.80	7.176	7.285	-0.109	1.002	34312		5.24(2.23-6.68)		6656	
D 59 13C7 PFUnA										
570.00 > 525.10	7.333	7.438	-0.105	1.062	1224492	1.65		82.4	56225	
D 82 PFDoA										
615.10 > 570.00	7.734	7.862	-0.128	1.120	961755	1.54		77.0	64288	
D 64 13C8 FOSA										
506.10 > 77.80	7.980	8.022	-0.042	1.114	972137	1.47		73.3	61017	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.464	8.581	-0.117	1.225	685724	1.55		77.6	26599	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.789	-0.015	1.225	399851	3.88		77.6	9242	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.861	8.876	-0.015	1.237	185797	1.07		53.4	7815	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.250	508055	3.79		75.8	15093	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.259	209984	1.07		53.5	12936	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 20:06:12 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-17.d

Injection Date: 17-Feb-2025 19:36:37 Instrument ID: 30576

Lims ID: 410-207884-A-7-B Lab Sample ID: 410-207884-7

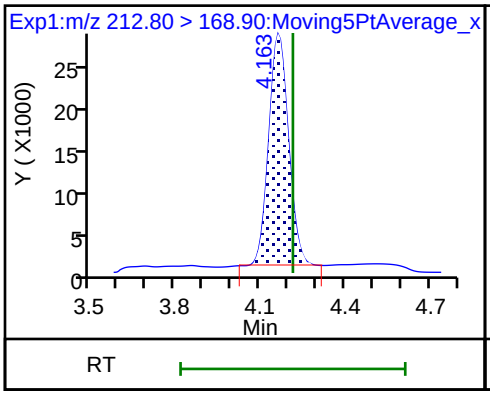
Client ID: MW-33S-FD-021125

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 22 Worklist Smp#: 90

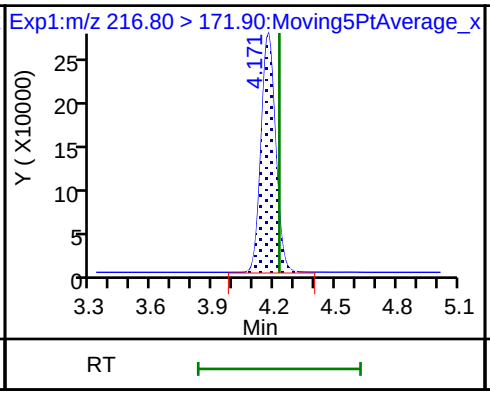
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

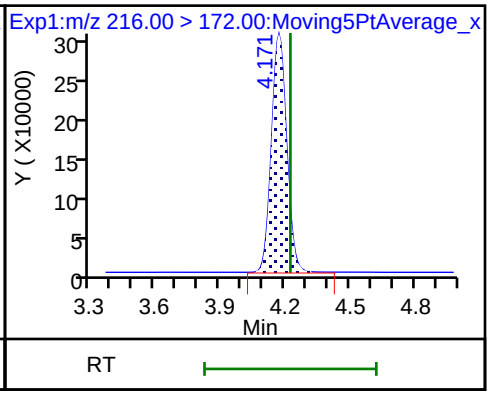
5 PFBA



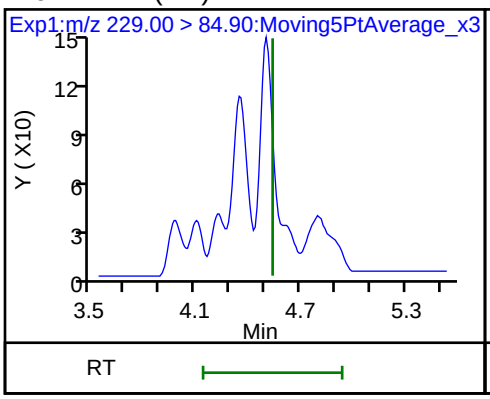
D 3 13C4-PFBA



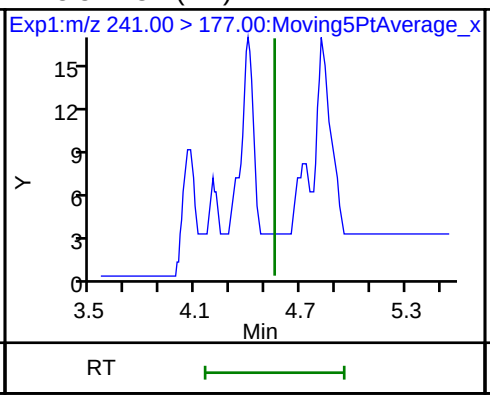
* 4 13C3PFBA



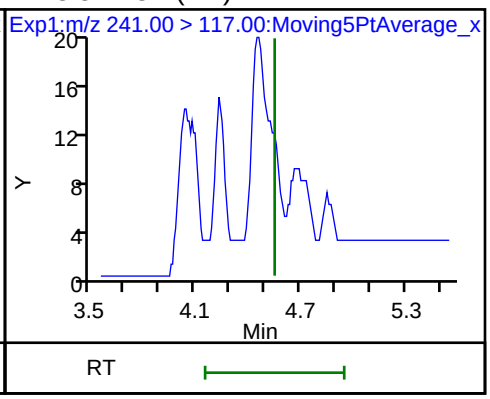
6 PFMPA (ND)



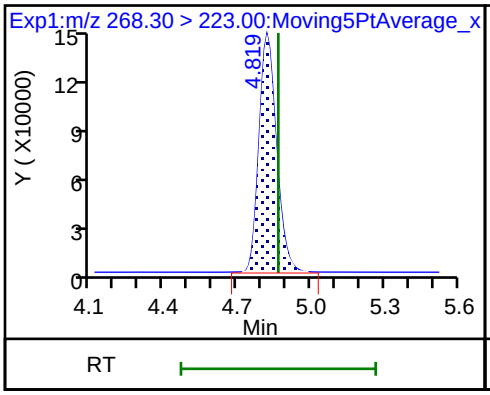
7 3:3 FTCA (ND)



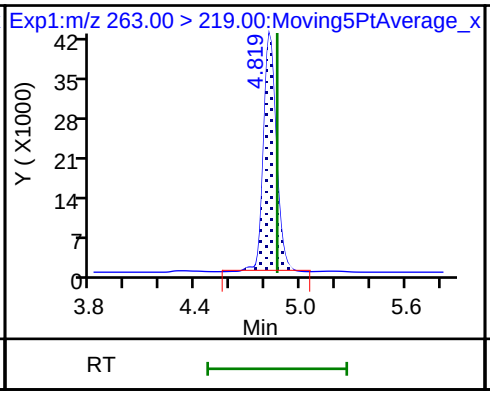
7 3:3 FTCA (ND)



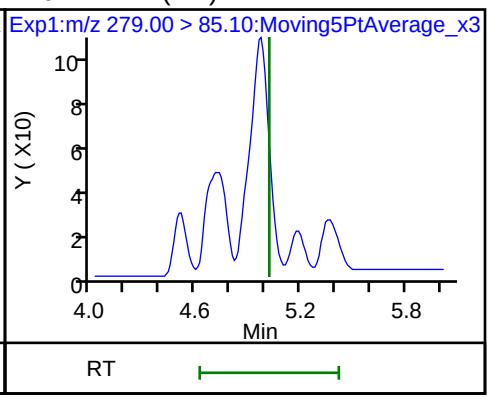
D 8 13C5 PFPeA



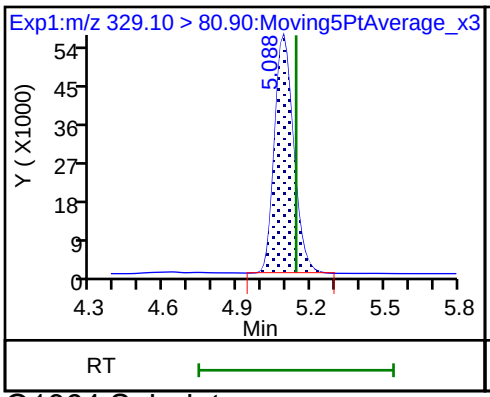
9 PFPA



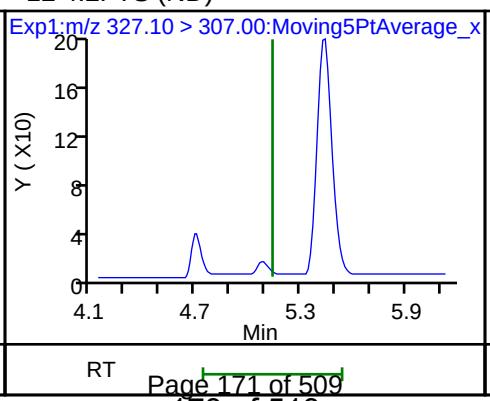
10 PFMBA (ND)



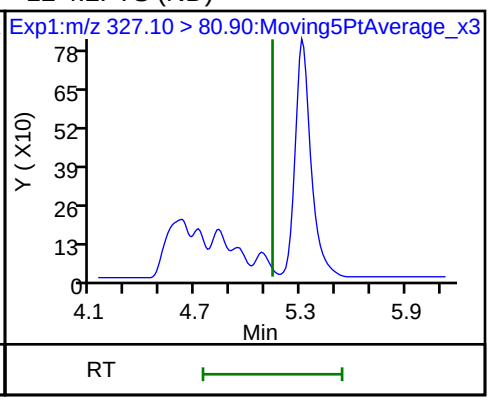
D 11 13C2-4:2FTS



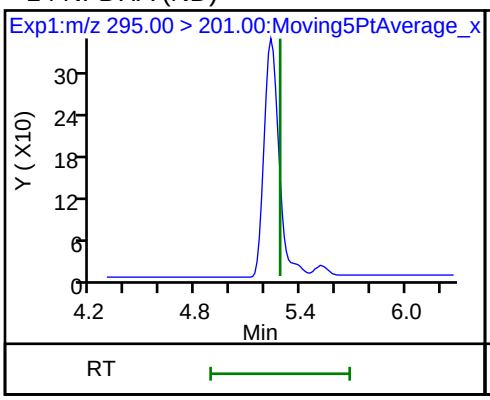
12 4:2FTS (ND)



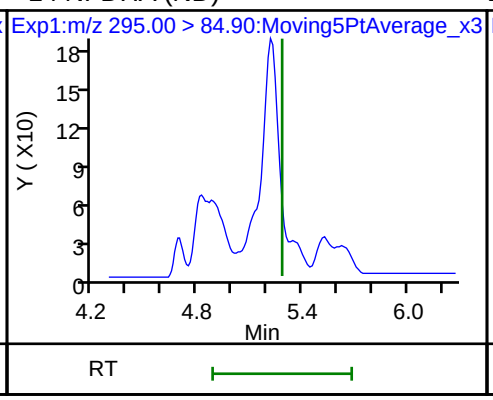
12 4:2FTS (ND)



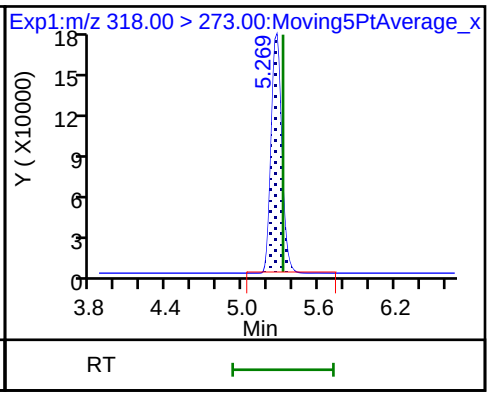
14 NFDHA (ND)



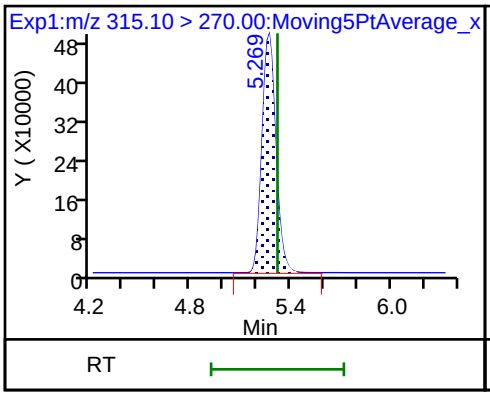
14 NFDHA (ND)



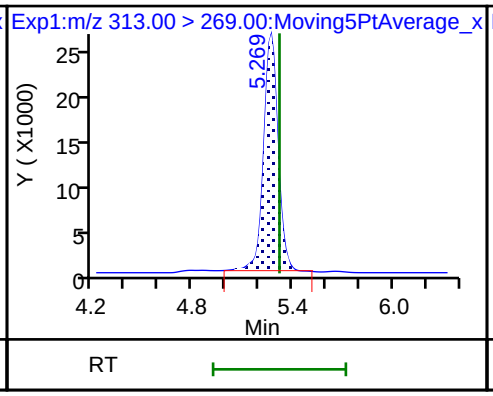
D 15 13C5 PFHxA



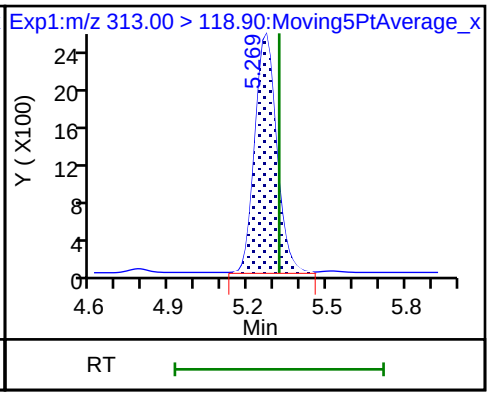
* 16 13C2 PFHxA



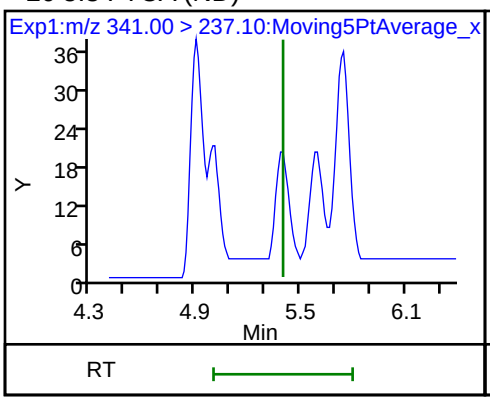
17 PFHxA



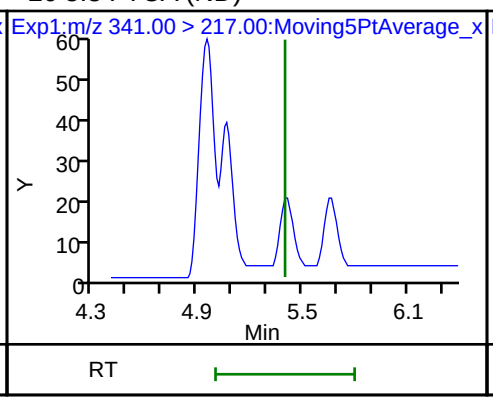
17 PFHxA



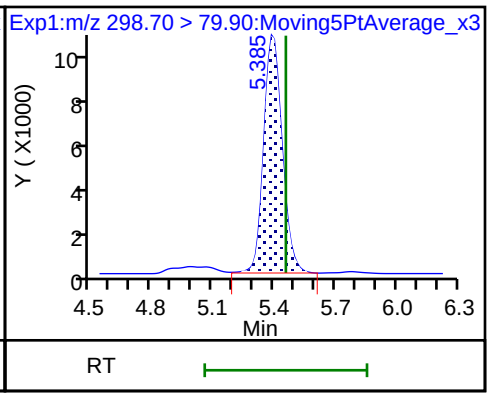
20 5:3 FTCA (ND)



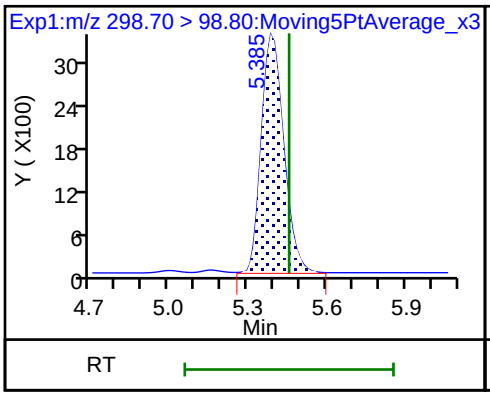
20 5:3 FTCA (ND)



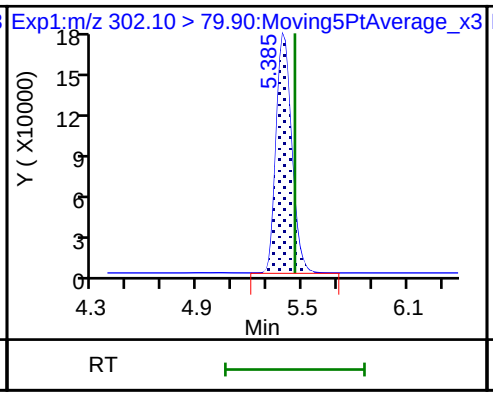
19 PFBS



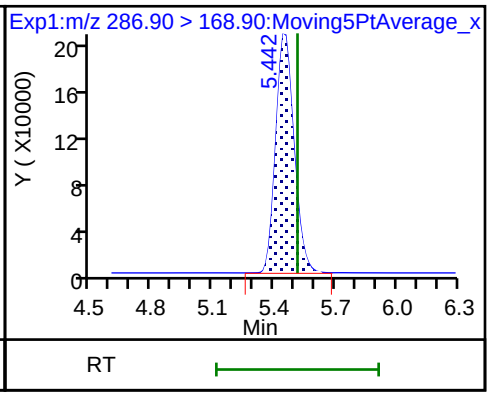
19 PFBS



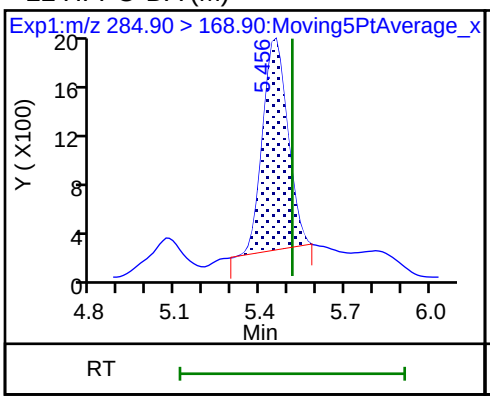
D 18 13C3 PFBS



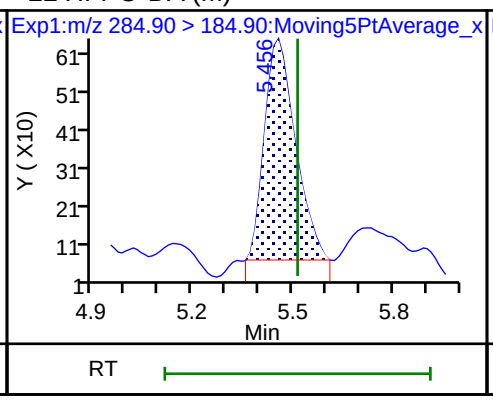
D 21 13C3 HFPO-DA



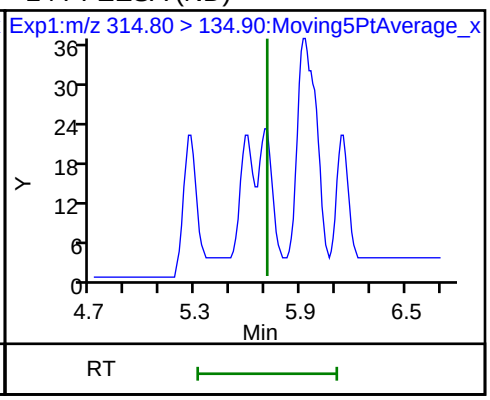
22 HFPO-DA (M)



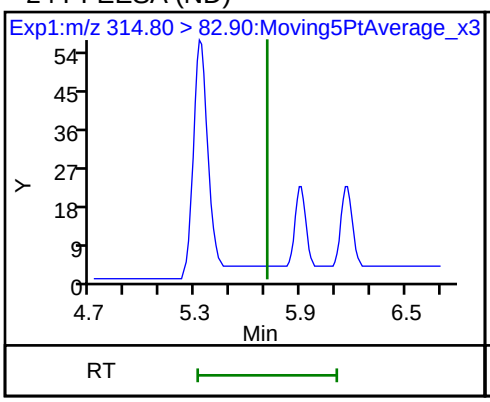
22 HFPO-DA (M)



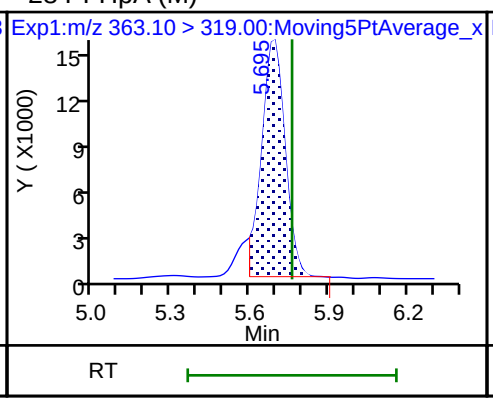
24 PFEESA (ND)



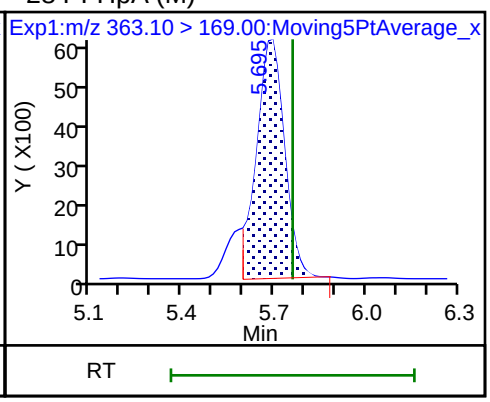
24 PFEESA (ND)



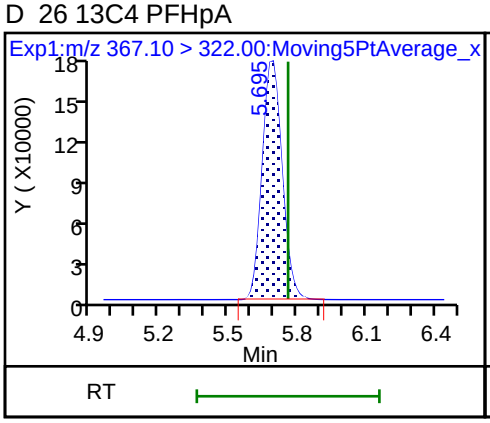
28 PFHpA (M)



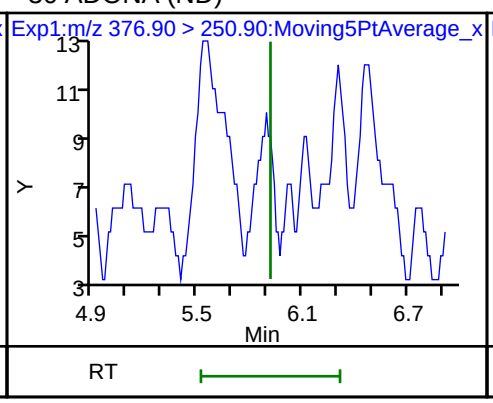
28 PFHpA (M)



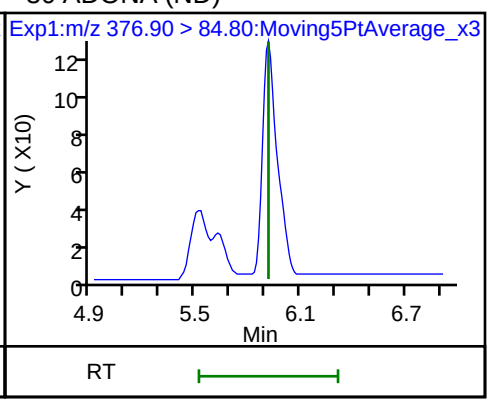
D 26 13C4 PFHpA



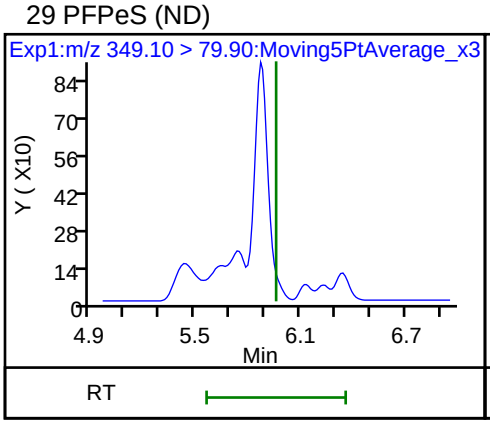
30 ADONA (ND)



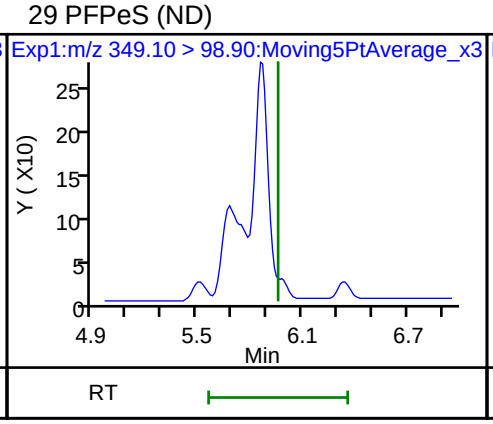
30 ADONA (ND)



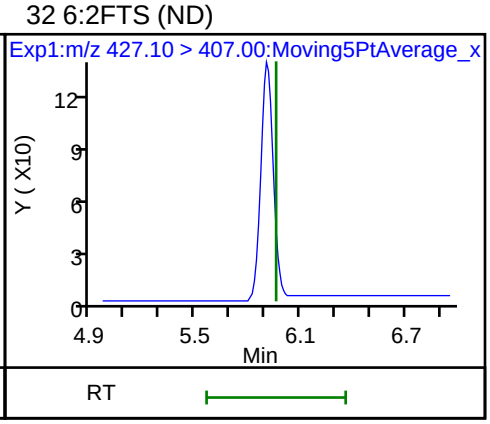
29 PFPeS (ND)



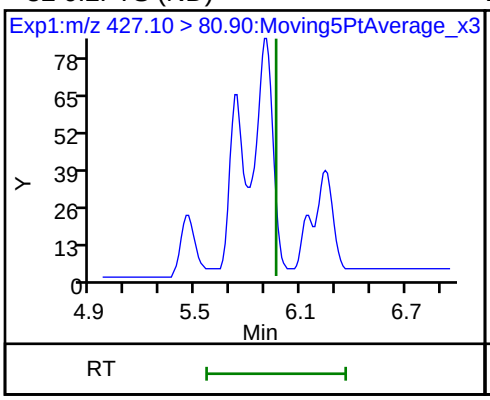
29 PFPeS (ND)



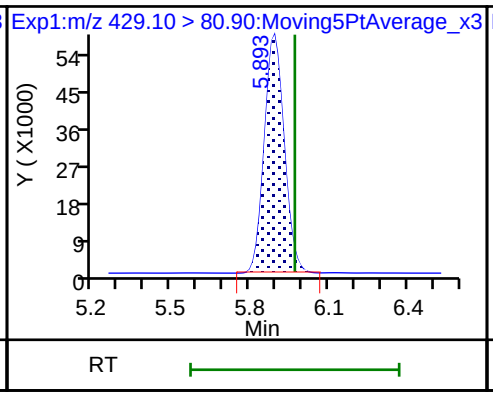
32 6:2FTS (ND)



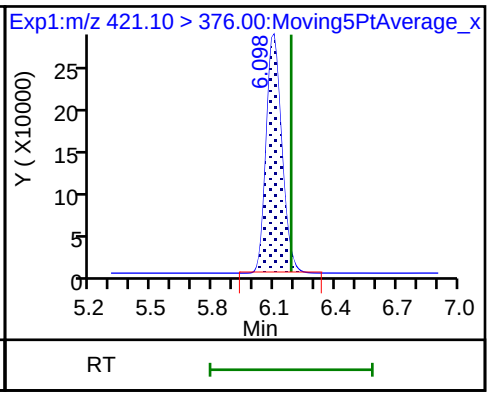
32 6:2FTS (ND)



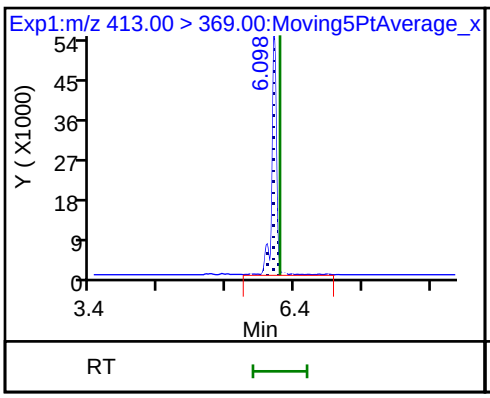
D 31 13C2-6:2FTS



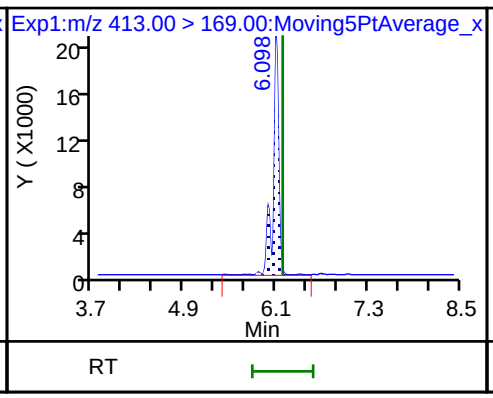
D 34 13C8 PFOA



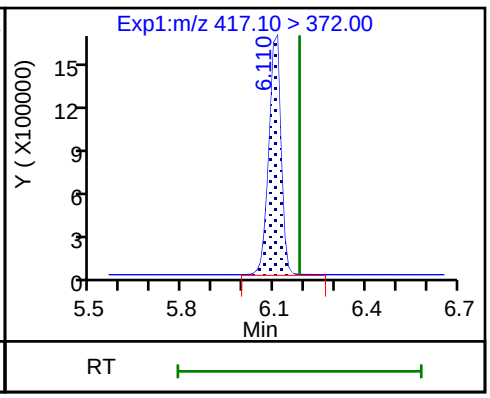
36 PFOA



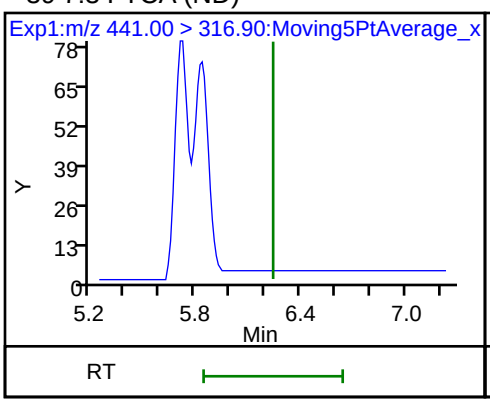
36 PFOA



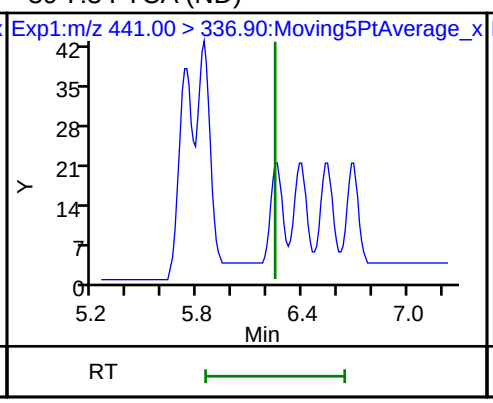
* 35 13C4 PFOA



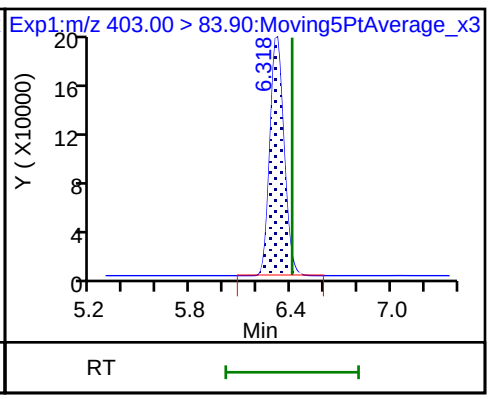
39 7:3 FTCA (ND)



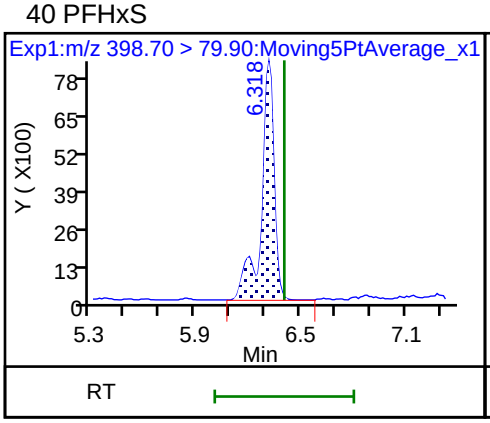
39 7:3 FTCA (ND)



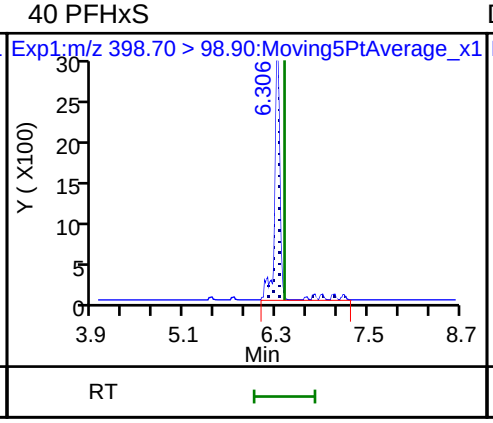
* 37 18O2 PFHxS



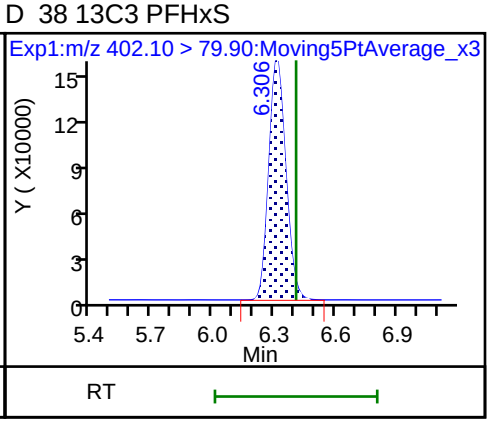
40 PFHxS



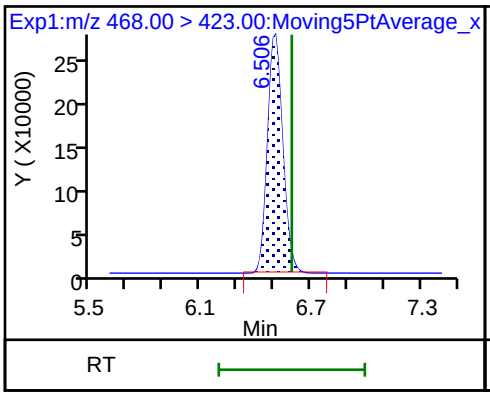
40 PFHxS



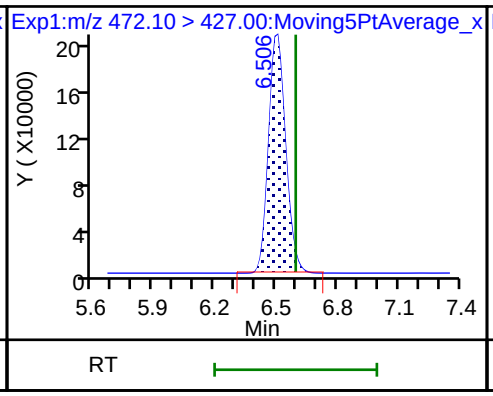
D 38 13C3 PFHxS



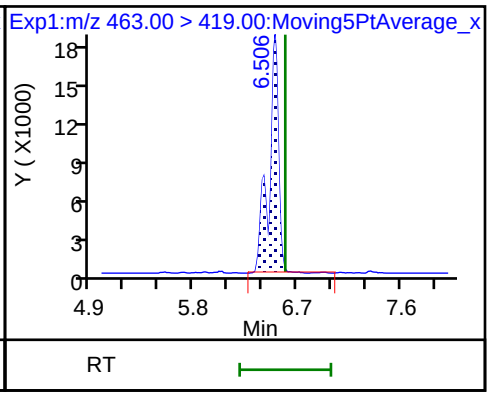
* 42 13C5 PFNA



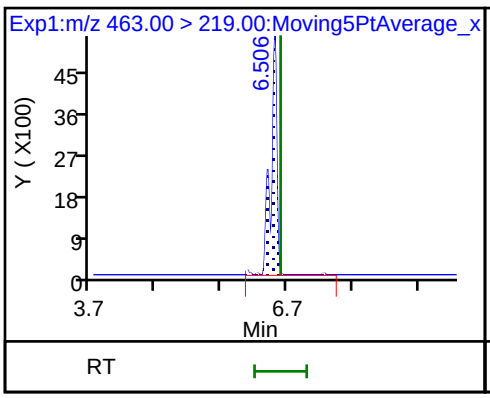
D 41 13C9 PFNA



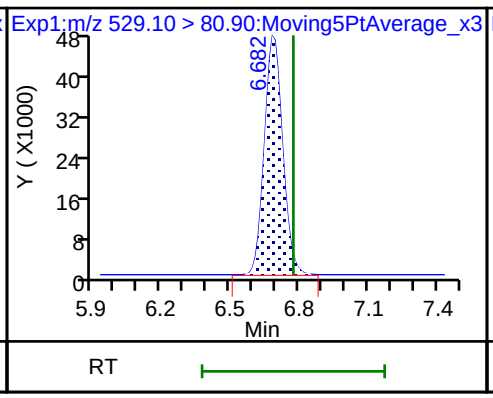
43 PFNA



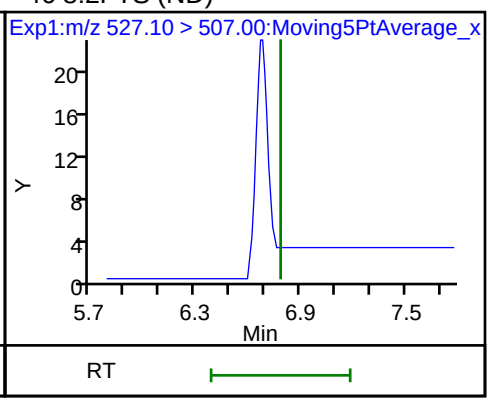
43 PFNA



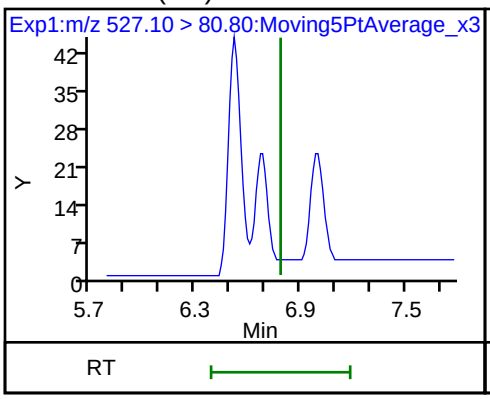
D 45 13C2-8:2FTS



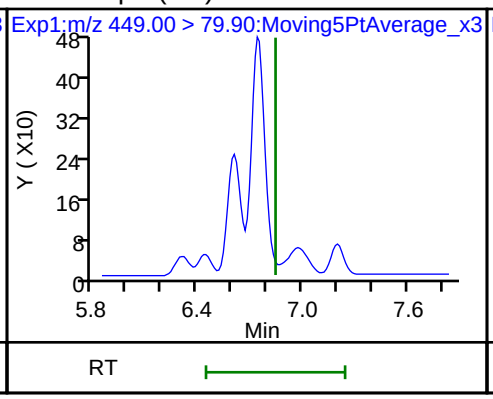
46 8:2FTS (ND)



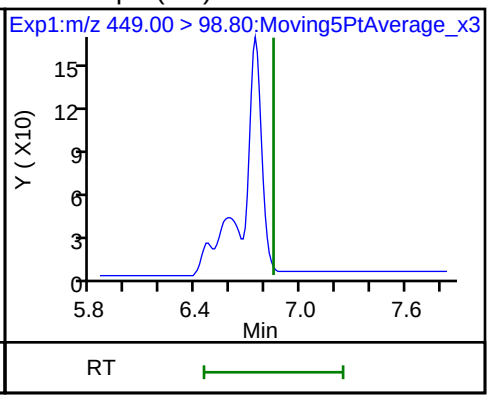
46 8:2FTS (ND)



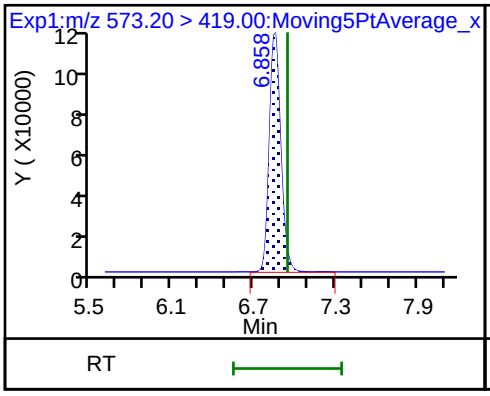
47 PFHpS (ND)



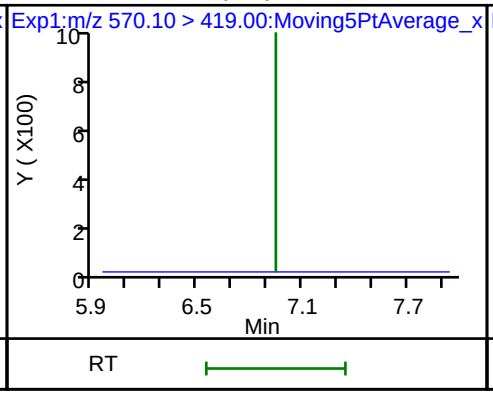
47 PFHpS (ND)



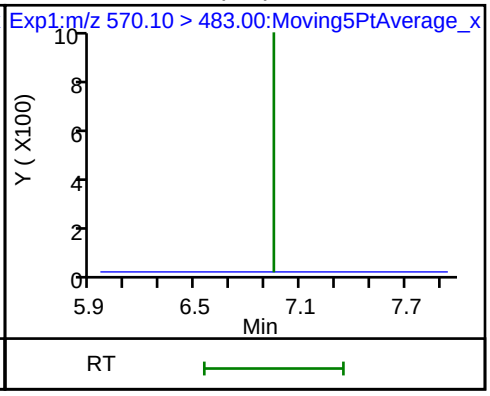
D 49 d3-NMeFOSAA



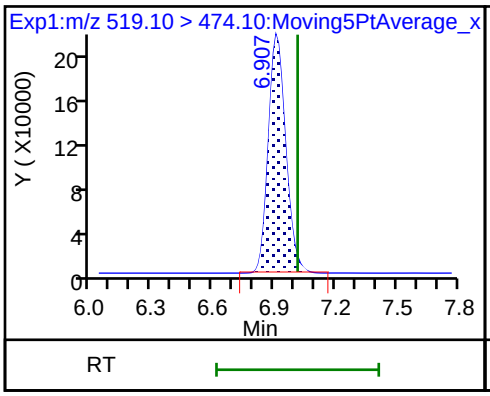
50 NMeFOSAA (ND)



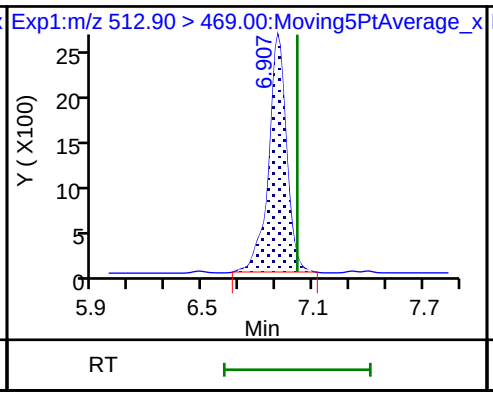
50 NMeFOSAA (ND)



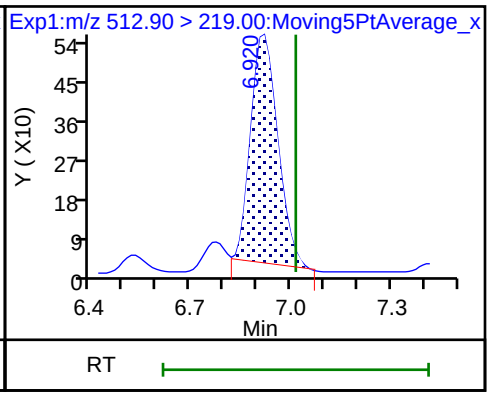
D 51 13C6 PFDA



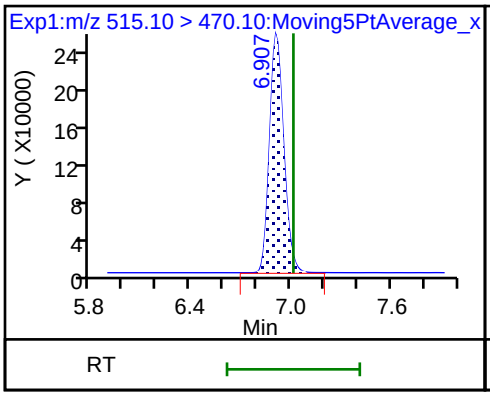
53 PFDA



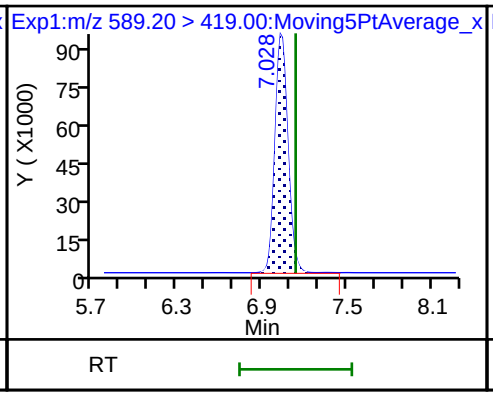
53 PFDA



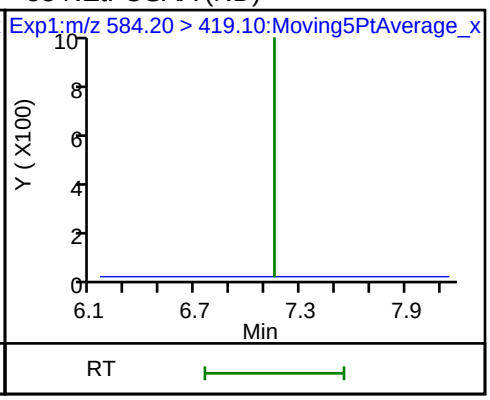
* 52 13C2 PFDA



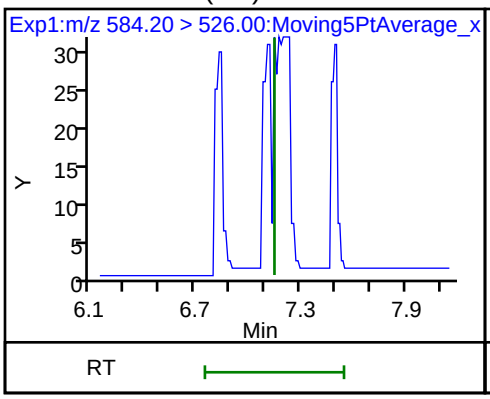
D 54 d5-NEtFOSAA



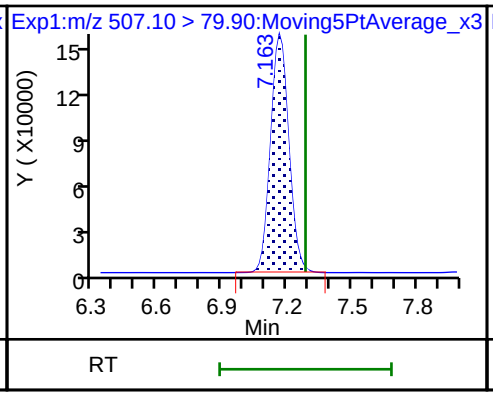
55 NEtFOSAA (ND)



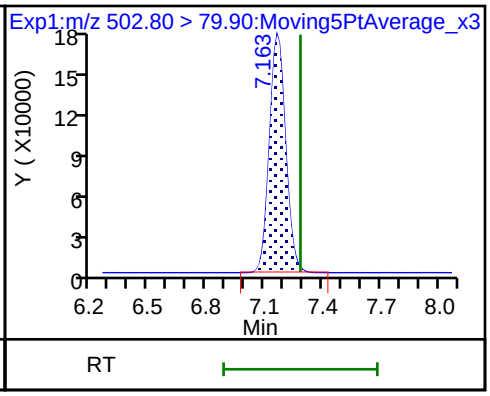
55 NEtFOSAA (ND)



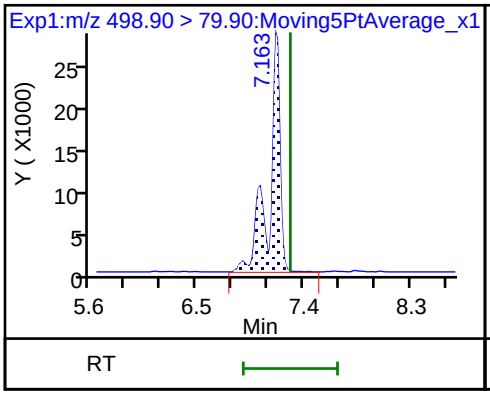
D 56 13C8 PFOS



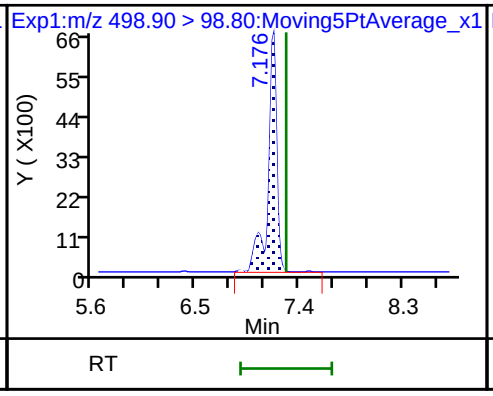
* 57 13C4 PFOS



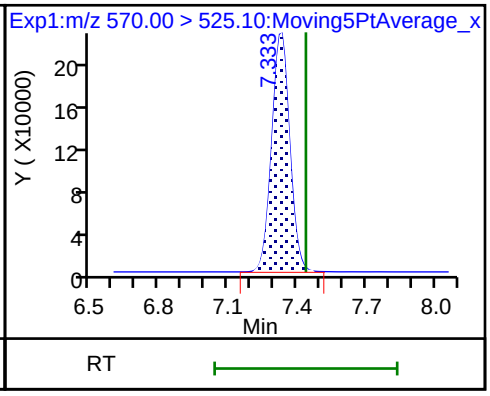
58 PFOS



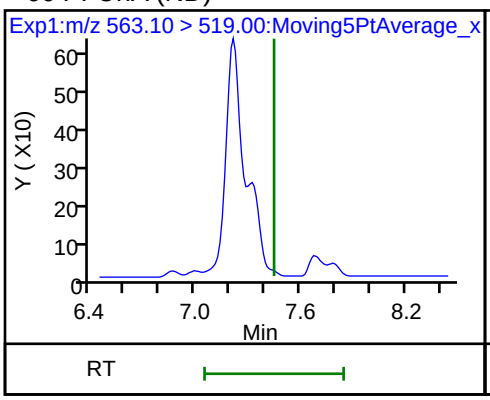
58 PFOS



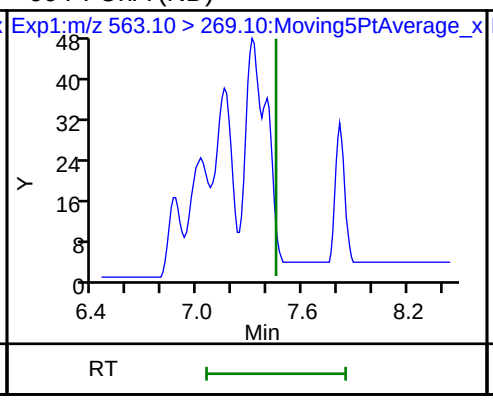
D 59 13C7 PFUnA



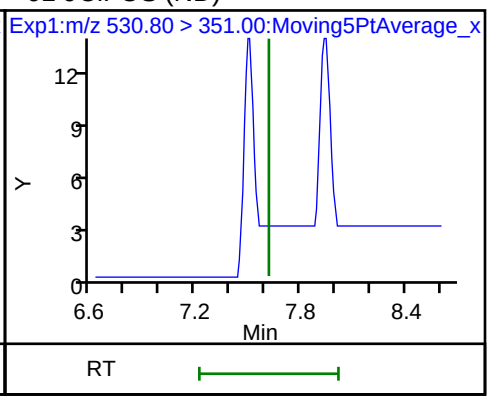
60 PFUnA (ND)



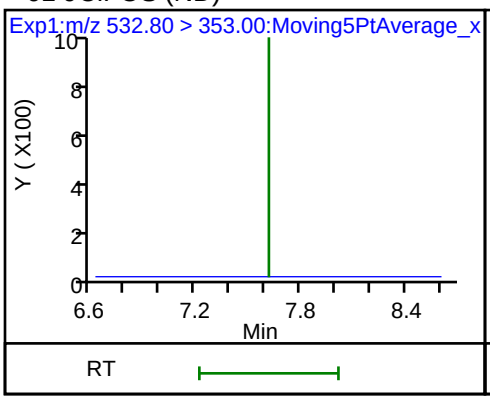
60 PFUnA (ND)



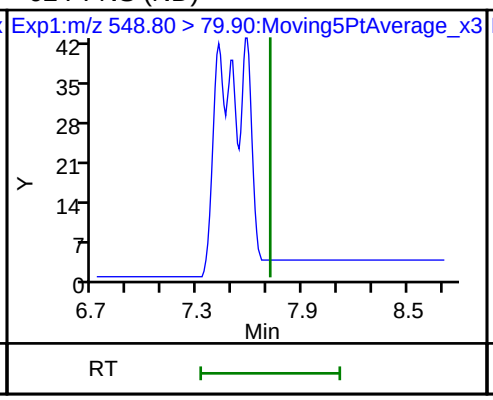
61 9ClFOS (ND)



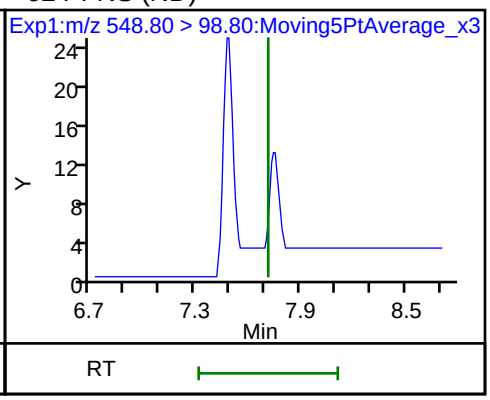
61 9ClFOS (ND)



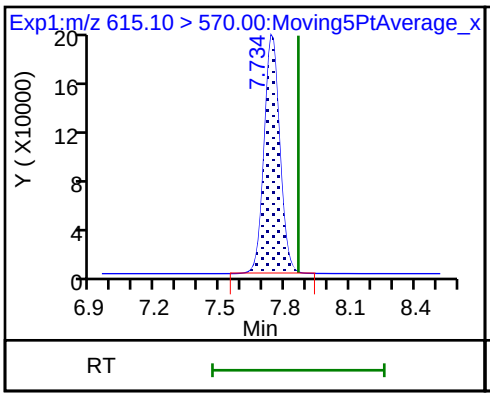
62 PFNS (ND)



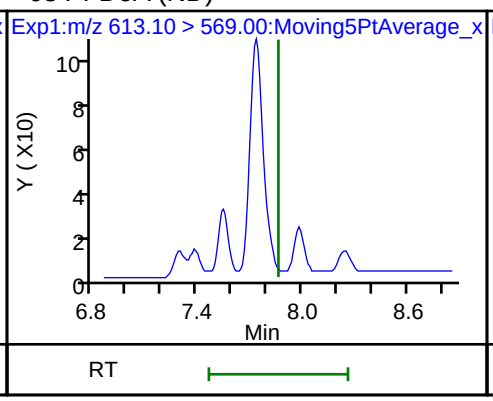
62 PFNS (ND)



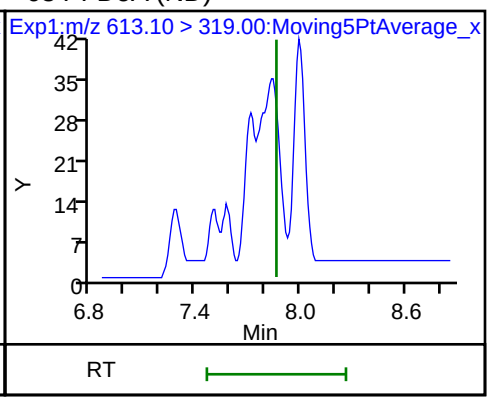
D 82 PFDoA



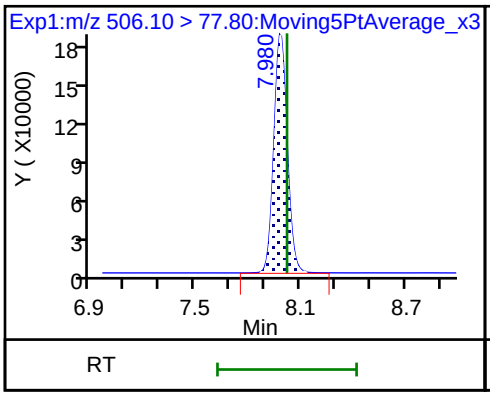
63 PFDoA (ND)



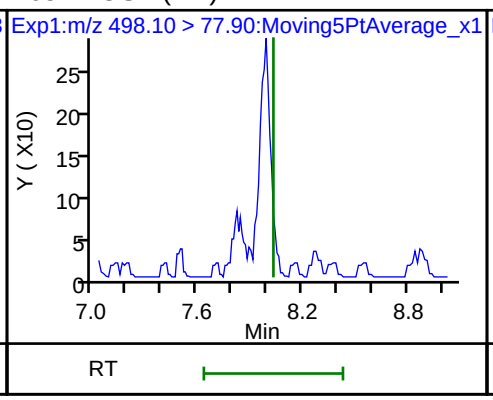
63 PFDoA (ND)



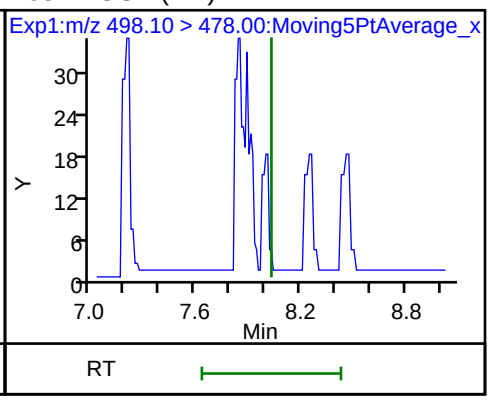
D 64 13C8 FOSA



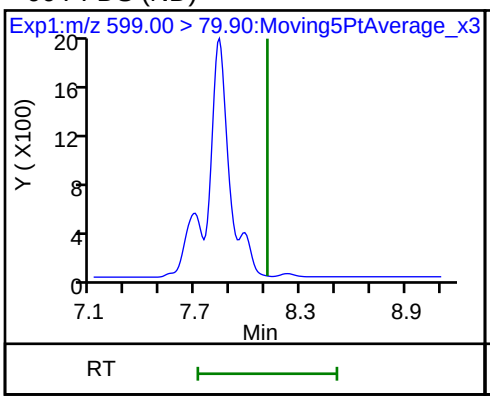
65 PFOSA (ND)



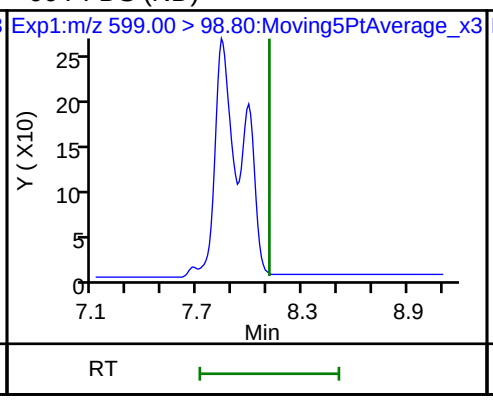
65 PFOSA (ND)



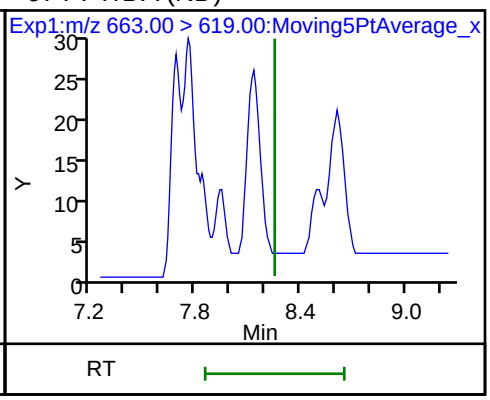
66 PFDS (ND)



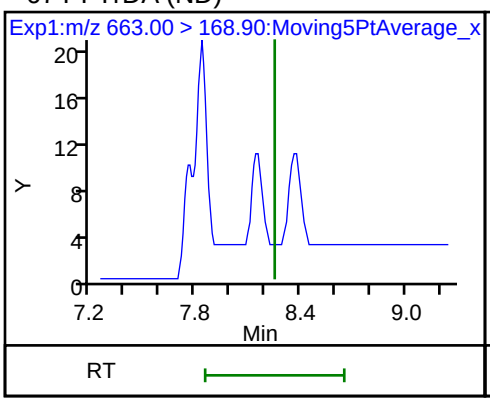
66 PFDS (ND)



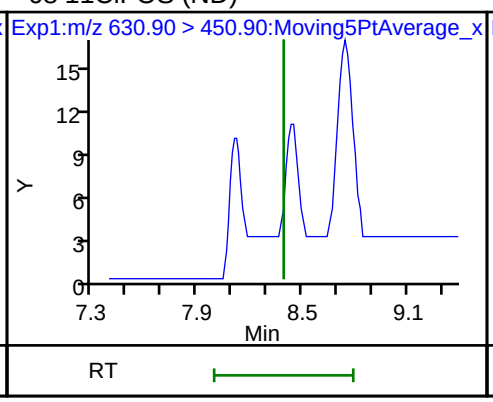
67 PFTrDA (ND)



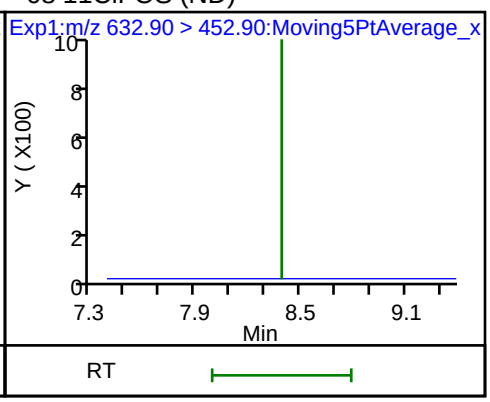
67 PFTrDA (ND)



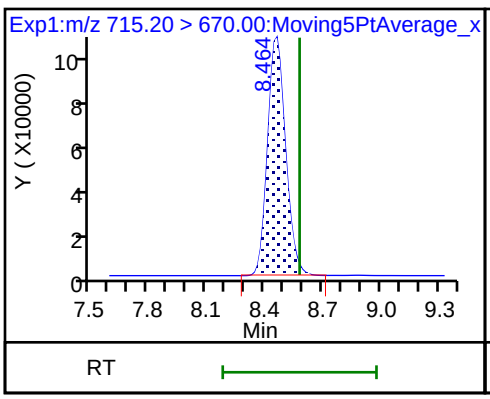
68 11ClFOS (ND)



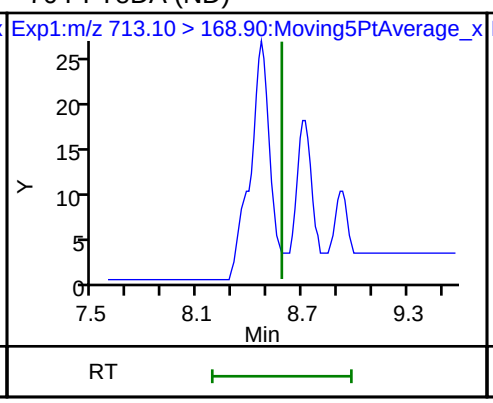
68 11ClFOS (ND)



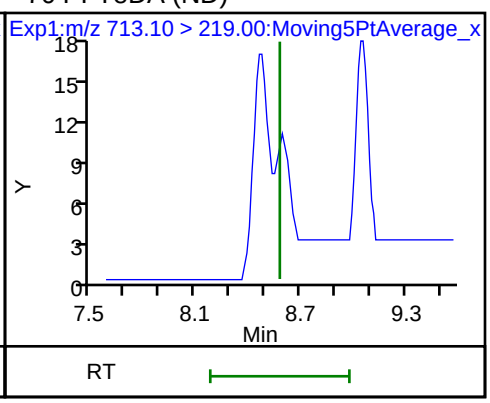
D 69 13C2 PFTeDA



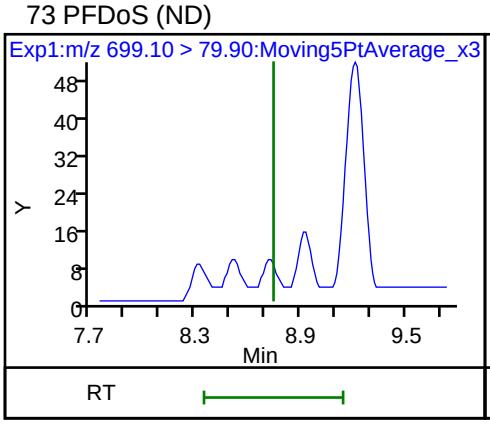
70 PFTeDA (ND)



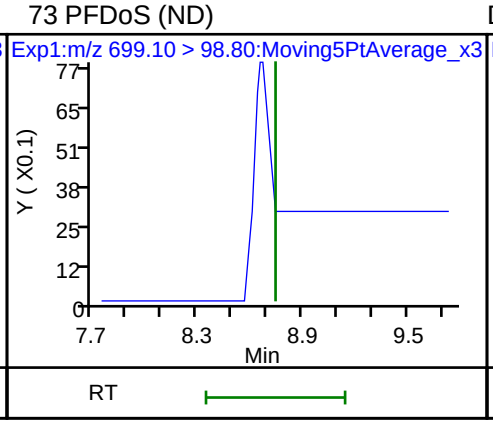
70 PFTeDA (ND)



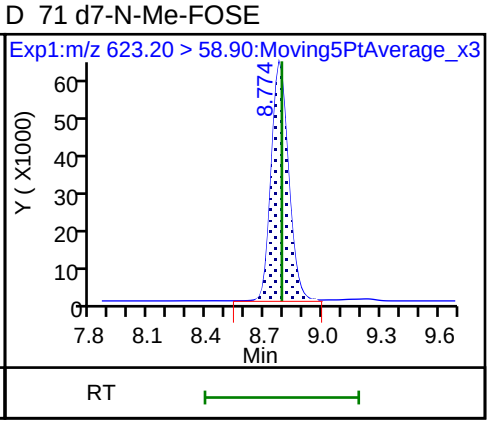
73 PFDoS (ND)



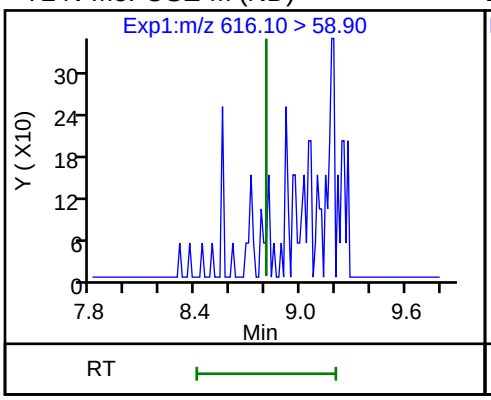
73 PFDoS (ND)



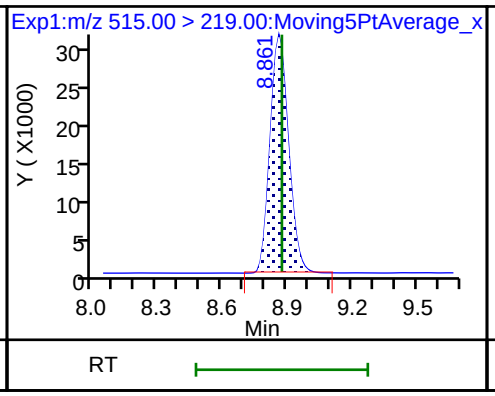
D 71 d7-N-Me-FOSE



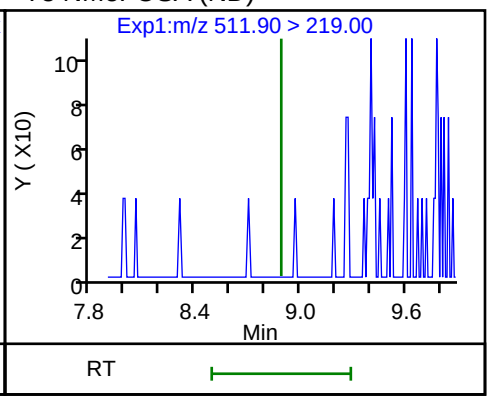
72 N-MeFOSE-M (ND)



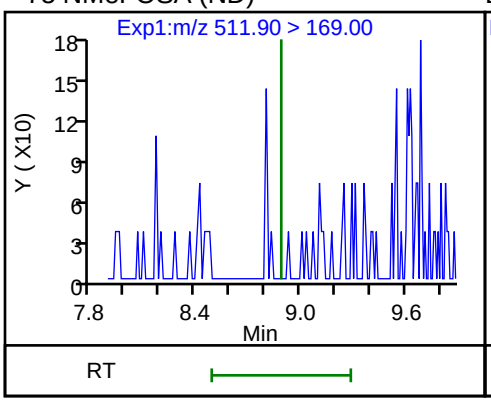
D 74 d3-NMePFOSA



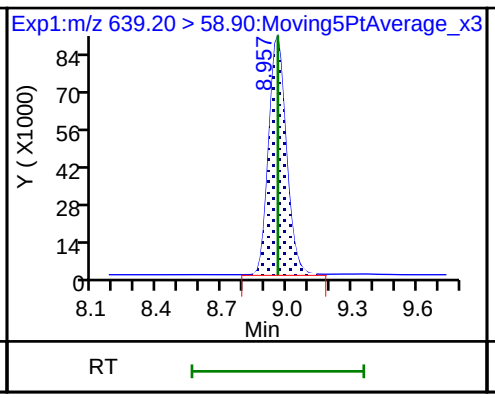
75 NMeFOSA (ND)



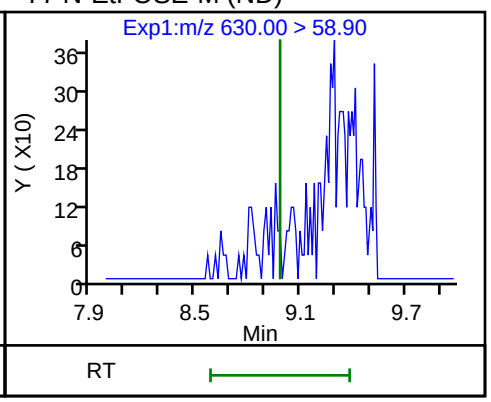
75 NMeFOSA (ND)



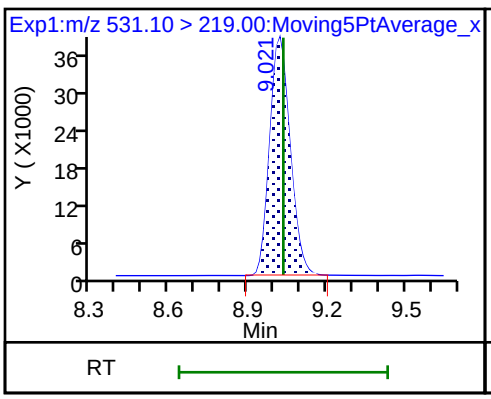
D 76 d9-N-EtFOSE



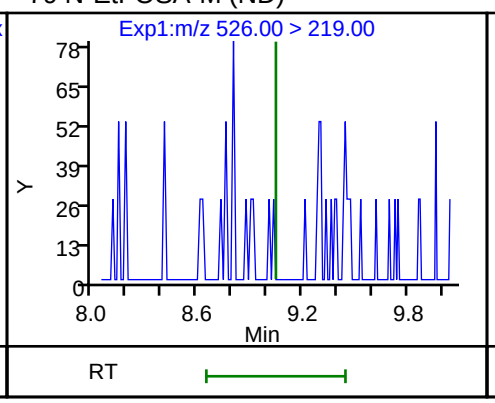
77 N-EtFOSE-M (ND)



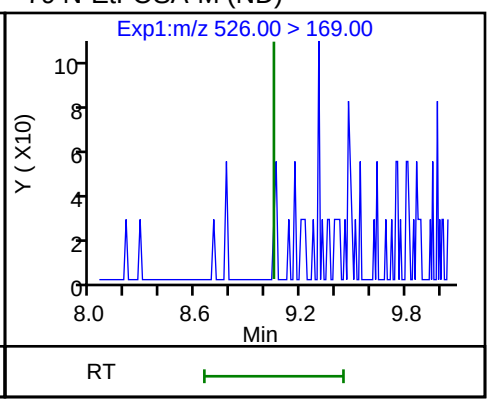
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

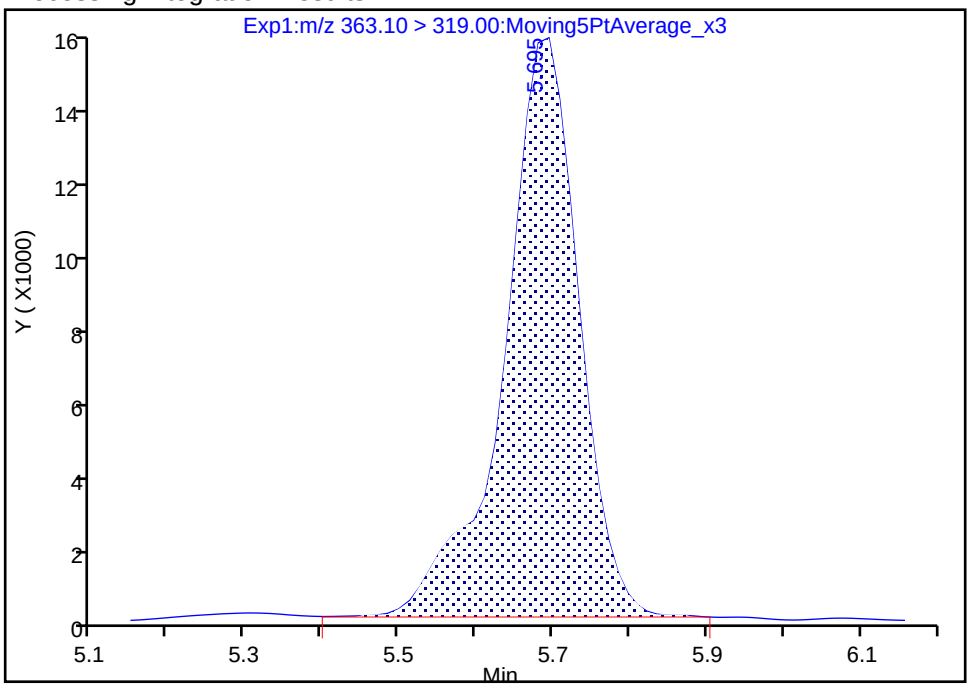
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-17.d				
Injection Date:	17-Feb-2025 19:36:37	Instrument ID:	30576		
Lims ID:	410-207884-A-7-B	Lab Sample ID:	410-207884-7		
Client ID:	MW-33S-FD-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	22	Worklist Smp#:	90
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 1

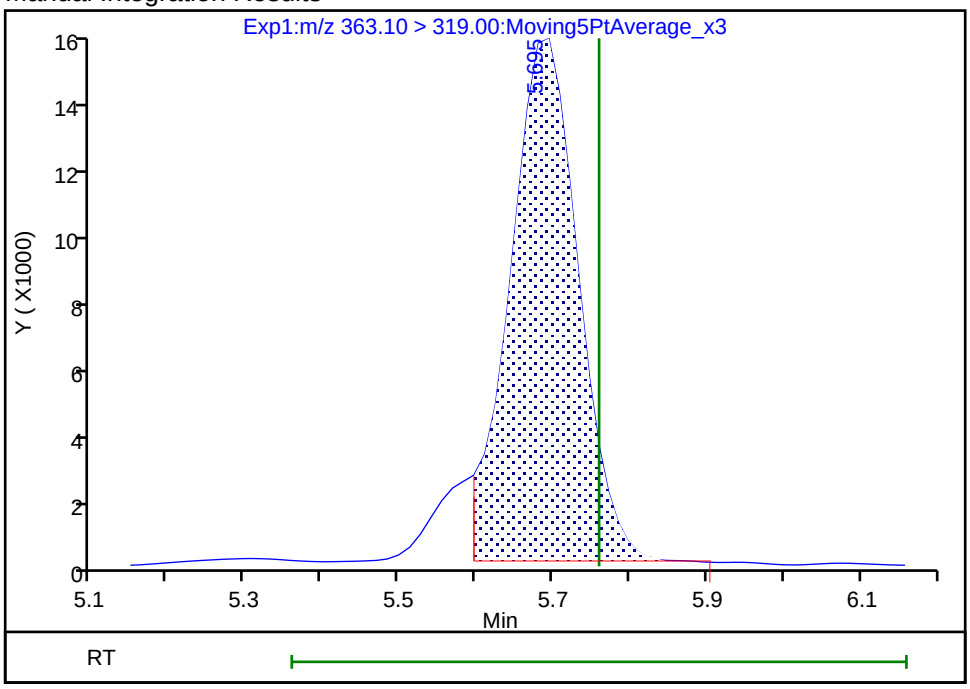
Processing Integration Results

RT: 5.69
Area: 102826
Amount: 0.205398
Amount Units: ng/ml



Manual Integration Results

RT: 5.69
Area: 94085
Amount: 0.187937
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 20:05:37 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

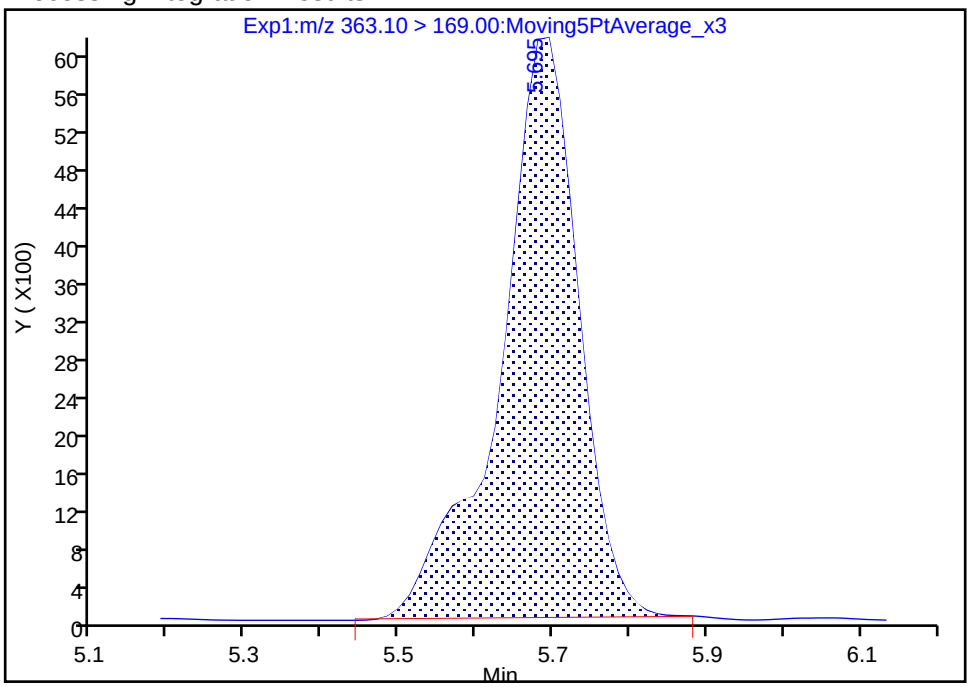
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-17.d				
Injection Date:	17-Feb-2025 19:36:37	Instrument ID:	30576		
Lims ID:	410-207884-A-7-B	Lab Sample ID:	410-207884-7		
Client ID:	MW-33S-FD-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	22	Worklist Smp#:	90
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

28 PFHpA, CAS: 375-85-9

Signal: 2

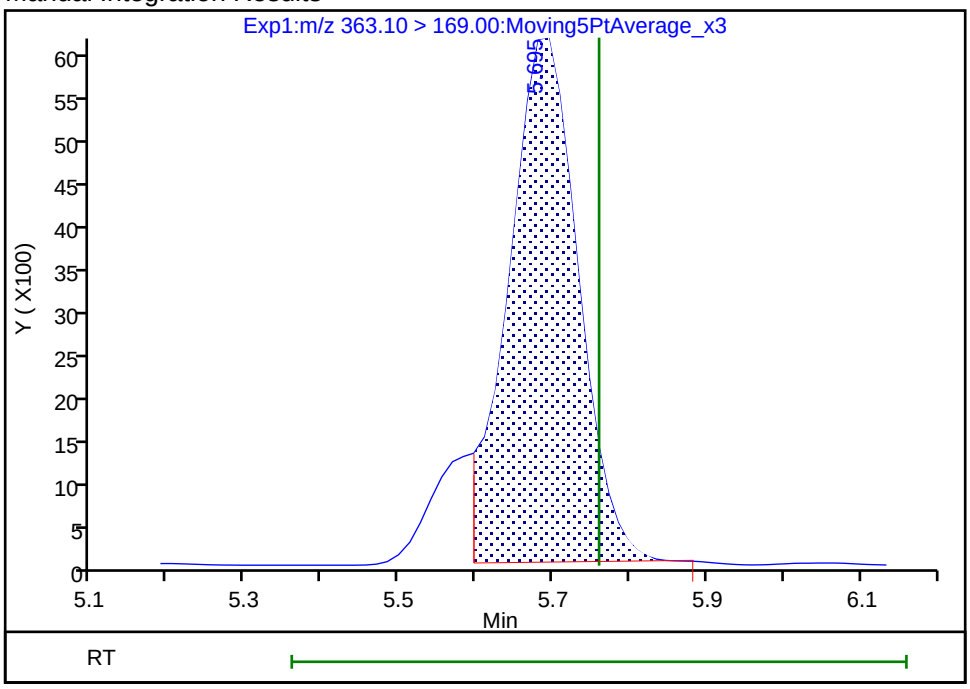
Processing Integration Results

RT: 5.69
Area: 43128
Amount: 0.205398
Amount Units: ng/ml



Manual Integration Results

RT: 5.69
Area: 38317
Amount: 0.187937
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 20:05:42 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

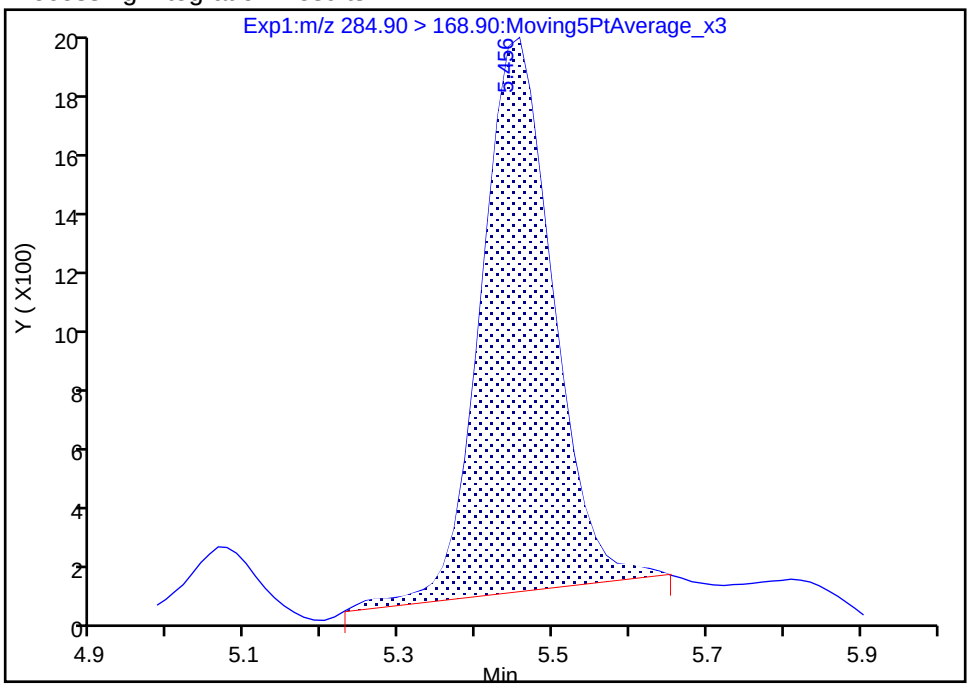
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-17.d				
Injection Date:	17-Feb-2025 19:36:37	Instrument ID:	30576		
Lims ID:	410-207884-A-7-B	Lab Sample ID:	410-207884-7		
Client ID:	MW-33S-FD-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	22	Worklist Smp#:	90
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

22 HFPO-DA, CAS: 13252-13-6

Signal: 1

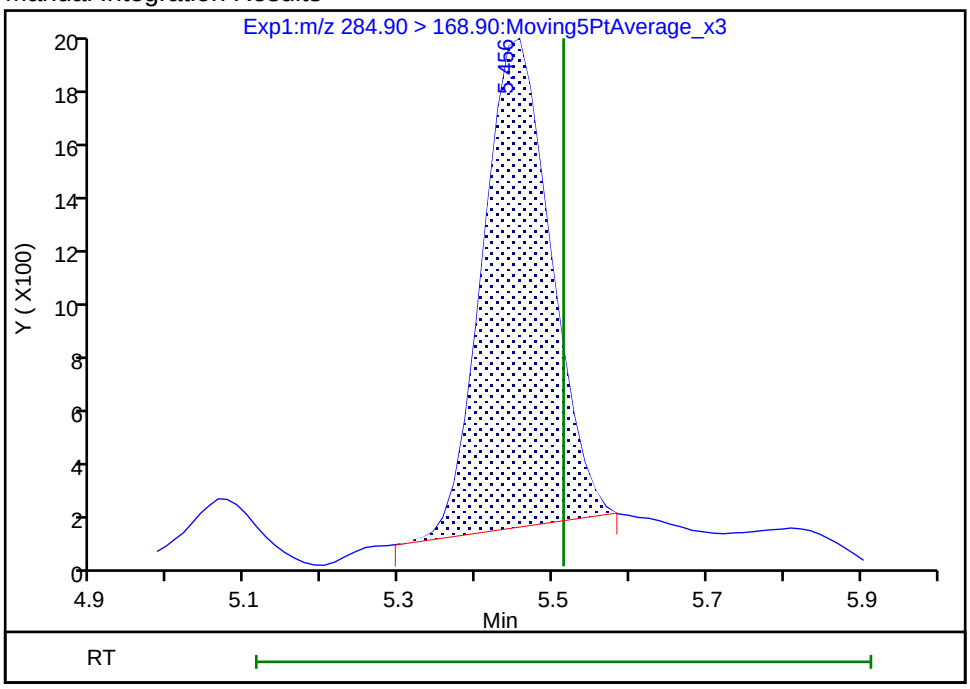
Processing Integration Results

RT: 5.46
Area: 11415
Amount: 0.018125
Amount Units: ng/ml



Manual Integration Results

RT: 5.46
Area: 10514
Amount: 0.016694
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 20:05:22 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

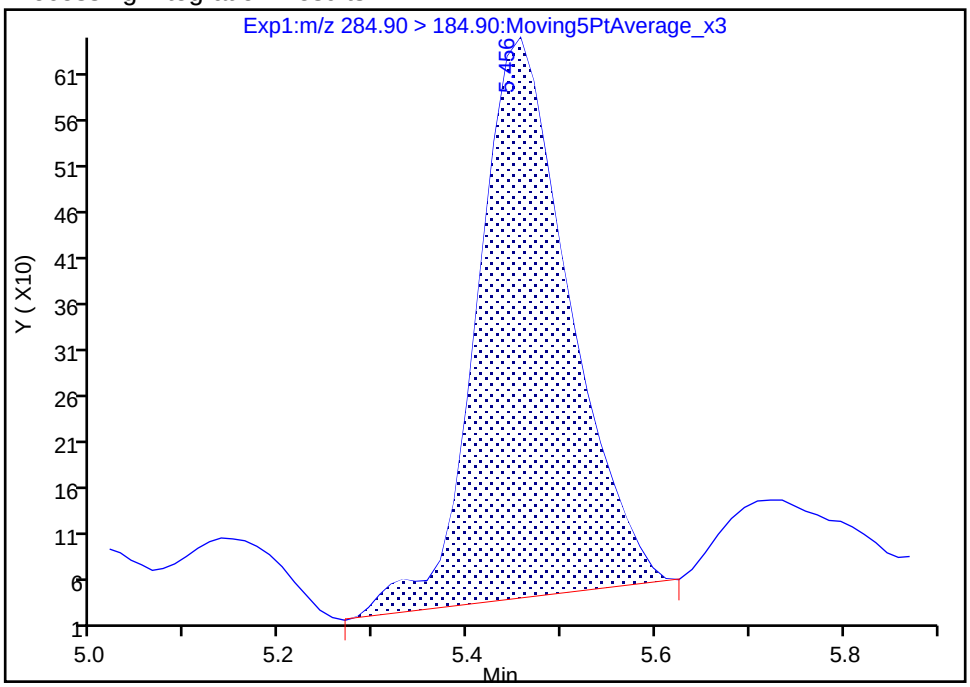
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-17.d				
Injection Date:	17-Feb-2025 19:36:37	Instrument ID:	30576		
Lims ID:	410-207884-A-7-B	Lab Sample ID:	410-207884-7		
Client ID:	MW-33S-FD-021125				
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	22	Worklist Smp#:	90
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

22 HFPO-DA, CAS: 13252-13-6

Signal: 2

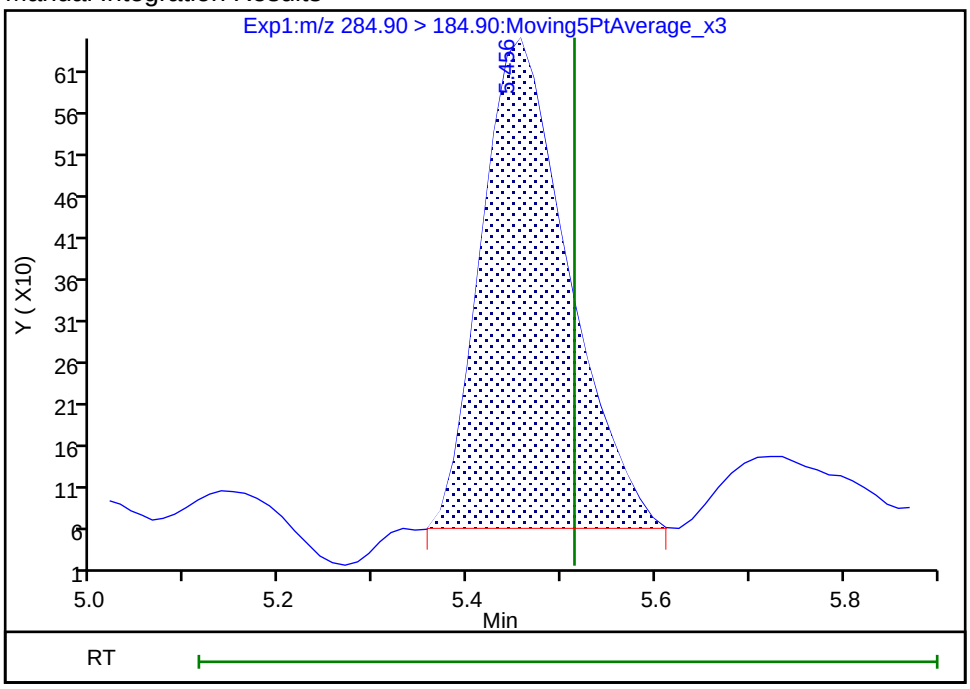
Processing Integration Results

RT: 5.46
Area: 4163
Amount: 0.018125
Amount Units: ng/ml



Manual Integration Results

RT: 5.46
Area: 3780
Amount: 0.016694
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 20:05:26 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: EB-02-021225
Lab Sample ID: 410-207884-8

Matrix: Water
Lab File ID: 25FEB17W-18.d

Analysis Method: 1633
Date Collected: 02/12/2025 15:06

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 135.9(mL)
Date Analyzed: 02/17/2025 19:50

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		3.7	1.0
2706-90-3	Perfluoropentanoic acid	ND		1.8	0.55
307-24-4	Perfluorohexanoic acid	ND		1.8	0.46
375-85-9	Perfluoroheptanoic acid	ND		1.8	0.74
335-67-1	Perfluorooctanoic acid	ND		1.8	0.83
375-95-1	Perfluorononanoic acid	ND		1.8	0.46
335-76-2	Perfluorodecanoic acid	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	ND		1.8	0.46
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.74
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.46
1763-23-1	Perfluorooctanesulfonic acid	ND		1.8	0.46
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.46
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.55
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		3.7	0.92
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.7	0.92
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.7	0.92
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
31506-32-8	NMeFOSA	ND		1.8	0.46
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46
2355-31-9	NMeFOSAA	ND		1.8	0.46
2991-50-6	NEtFOSAA	ND		1.8	0.46

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: EB-02-021225
Lab Sample ID: 410-207884-8

Matrix: Water
Lab File ID: 25FEB17W-18.d

Analysis Method: 1633
Date Collected: 02/12/2025 15:06

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 135.9(mL)
Date Analyzed: 02/17/2025 19:50

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		9.2	2.3
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		9.2	2.3
13252-13-6	HFPO-DA	ND		1.8	0.69
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.46
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		1.8	0.46
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		1.8	0.46
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		1.8	0.46
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.46
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.46
113507-82-7	PFEESA	ND		1.8	0.46
356-02-5	3:3 FTCA	ND		3.7	0.92
914637-49-3	5:3 FTCA	ND		9.2	2.6
812-70-4	7:3 FTCA	ND		9.2	2.3

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: EB-02-021225
Lab Sample ID: 410-207884-8

Matrix: Water
Lab File ID: 25FEB17W-18.d

Analysis Method: 1633
Date Collected: 02/12/2025 15:06

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 135.9(mL)
Date Analyzed: 02/17/2025 19:50

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84.5		5-130
STL01893	13C5 PFPeA	107	cn	40-130
STL02577	13C5 PFHxA	100	cn	40-130
STL01892	13C4 PFHpA	103	cn	40-130
STL01052	13C8 PFOA	80.1		40-130
STL02578	13C9 PFNA	75.0		40-130
STL02579	13C6 PFDA	80.1		40-130
STL02580	13C7 PFUnA	93.5	cn	30-130
STL02116	13C2 PFTeDA	69.0	cn	10-130
STL02337	13C3 PFBS	90.2		40-135
STL02581	13C3 PFHxS	88.6		40-130
STL01054	13C8 PFOS	89.3		40-130
STL01056	13C8 FOSA	84.8		40-130
STL02118	d3-NMeFOSAA	98.3		40-170
STL02117	d5-NEtFOSAA	94.0		25-135
STL02395	M2-4:2 FTS	78.3		40-200
STL02279	M2-6:2 FTS	109		40-200
STL02280	M2-8:2 FTS	91.8		40-300
STL02255	13C3 HFPO-DA	105	cn	40-130
STL02277	d7-N-MeFOSE-M	88.3		10-130
STL02278	d9-N-EtFOSE-M	88.6		10-130
STL02704	d5-NEtPFOSA	68.5		10-130
STL02705	d3-NMePFOSA	67.4		10-130
STL00998	13C2 PFDoA	94.7		10-130

Report Date: 17-Feb-2025 20:13:13 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-18.d
Lims ID: 410-207884-A-8-A
Client ID: EB-02-021225
Sample Type: Client
Inject. Date: 17-Feb-2025 19:50:13 ALS Bottle#: 23 Worklist Smp#: 91
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 410-207884-A-8-A
Misc. Info.: Plate: 2 Rack: 1 410-0138392-091
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 20:05:57 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 20:12:19
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 3 13C4-PFBA										
216.80 > 171.90	4.173	4.224	-0.051	1.000	1347583	1.69		84.5	69451	
* 4 13C3PFBA										
216.00 > 172.00	4.173	4.224	-0.051		1493452	2.00			34309	
D 8 13C5 PFPeA										
268.30 > 223.00	4.818	4.866	-0.048	0.914	756068	2.14		107	50565	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.088	5.139	-0.051	0.805	329826	3.67		78.3	20519	
D 15 13C5 PFHxA										
318.00 > 273.00	5.270	5.318	-0.048	1.000	1023203	2.00		100	59015	
* 16 13C2 PFHxA										
315.10 > 270.00	5.270	5.318	-0.048		2892318	5.00			168233	
D 18 13C3 PFBS										
302.10 > 79.90	5.385	5.456	-0.071	0.852	1049579	1.68		90.2	56543	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.442	5.514	-0.072	1.033	1321238	2.09		105	70173	
D 26 13C4 PFHpA										
367.10 > 322.00	5.695	5.760	-0.065	1.081	1070734	2.06		103	59902	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.893	5.971	-0.078	0.933	486691	5.17		109	31727	
D 34 13C8 PFOA										
421.10 > 376.00	6.098	6.183	-0.085	0.998	1557237	1.60		80.1	73831	
* 35 13C4 PFOA										
417.10 > 372.00	6.110	6.183	-0.073		4554513	5.00			560585	
* 37 18O2 PFHxS										
403.00 > 83.90	6.318	6.407	-0.089		1077534	1.89			62248	
D 38 13C3 PFHxS										
402.10 > 79.90	6.318	6.407	-0.089	1.000	980538	1.68		88.6	56677	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 42 13C5 PFNA										
468.00 > 423.00	6.506	6.595	-0.089		1714263	2.00			74569	
D 41 13C9 PFNA										
472.10 > 427.00	6.506	6.595	-0.089	1.000	1317381	1.50		75.0	57671	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.694	6.774	-0.080	1.059	357558	4.41		91.8	22005	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.858	6.947	-0.089	0.956	890733	4.91		98.3	39159	
D 51 13C6 PFDA										
519.10 > 474.10	6.920	7.014	-0.094	1.000	1604431	1.60		80.1	66949	
* 52 13C2 PFDA										
515.10 > 470.10	6.920	7.014	-0.094		1899246	2.00			79406	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.042	7.137	-0.095	0.981	699067	4.70		94.0	36923	
D 56 13C8 PFOS										
507.10 > 79.90	7.163	7.285	-0.122	0.998	909394	1.71		89.3	30806	
* 57 13C4 PFOS										
502.80 > 79.90	7.176	7.285	-0.109		994840	1.91			56202	
D 59 13C7 PFUnA										
570.00 > 525.10	7.333	7.438	-0.105	1.060	1746745	1.87		93.5	79986	
D 82 PFDoA										
615.10 > 570.00	7.744	7.862	-0.118	1.119	1488296	1.89		94.7	97268	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	8.022	-0.031	1.113	1076950	1.70		84.8	68035	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.464	8.581	-0.117	1.223	767128	1.38		69.0	30012	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.789	-0.015	1.223	436115	4.42		88.3	8638	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.861	8.876	-0.015	1.235	224666	1.35		67.4	9402	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.248	568939	4.43		88.6	17104	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.257	257461	1.37		68.5	15893	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 20:13:13 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-18.d

Injection Date: 17-Feb-2025 19:50:13 Instrument ID: 30576

Lims ID: 410-207884-A-8-A Lab Sample ID: 410-207884-8

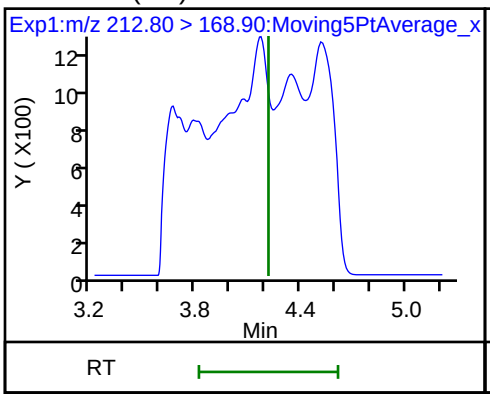
Client ID: EB-02-021225

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 23 Worklist Smp#: 91

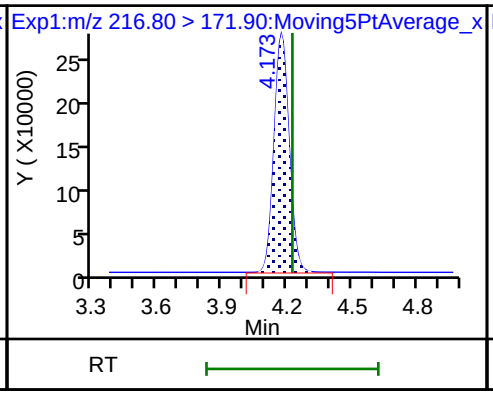
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

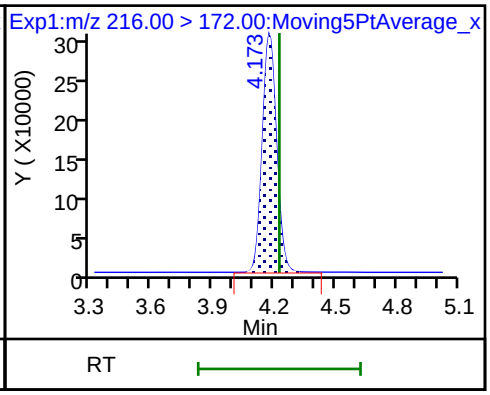
5 PFBA (ND)



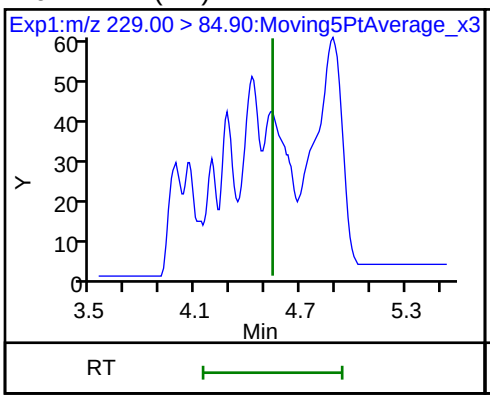
D 3 13C4-PFBA



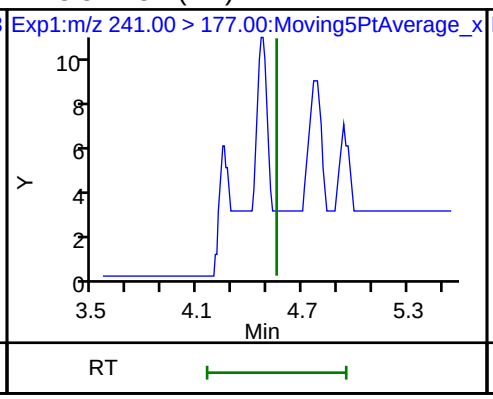
* 4 13C3PFBA



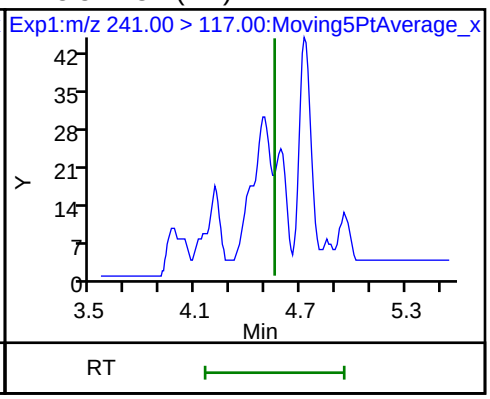
6 PFMPA (ND)



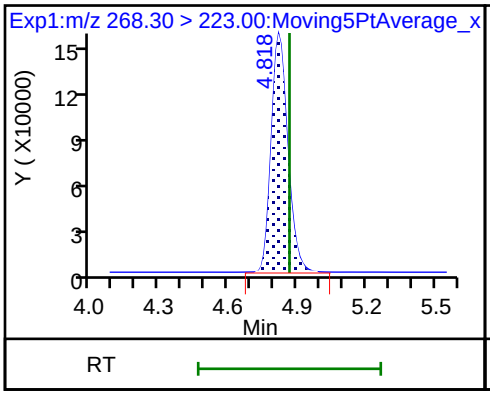
7 3:3 FTCA (ND)



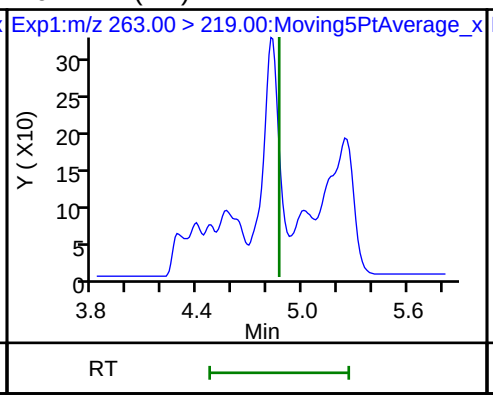
7 3:3 FTCA (ND)



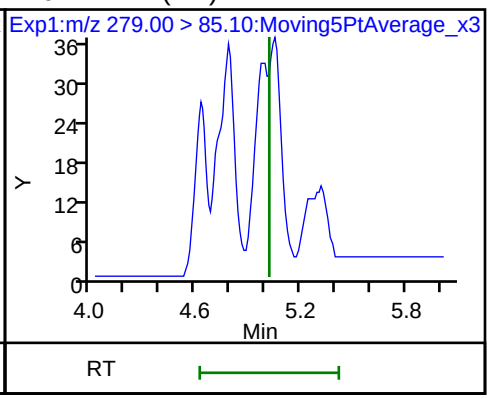
D 8 13C5 PFPeA



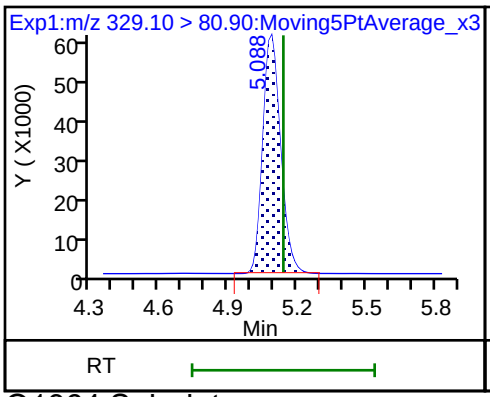
9 PFPA (ND)



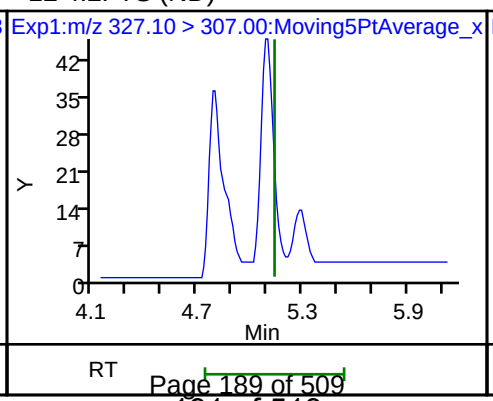
10 PFMBA (ND)



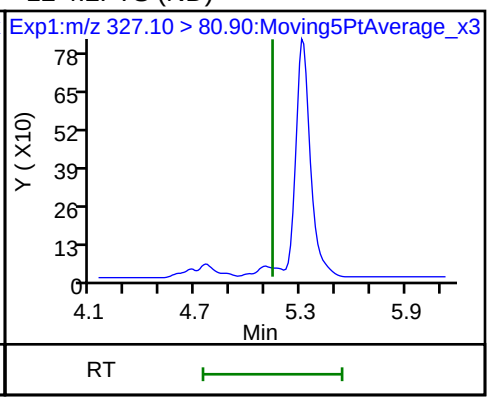
D 11 13C2-4:2FTS



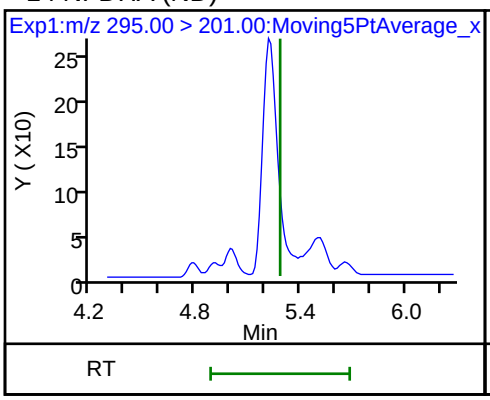
12 4:2FTS (ND)



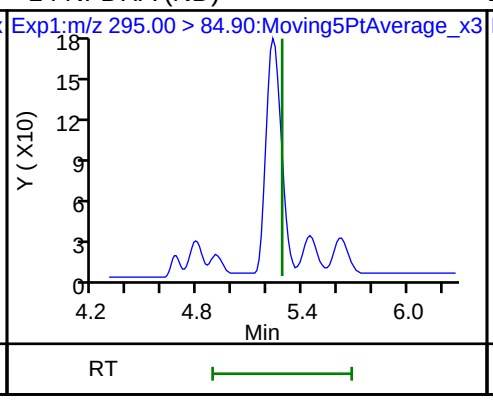
12 4:2FTS (ND)



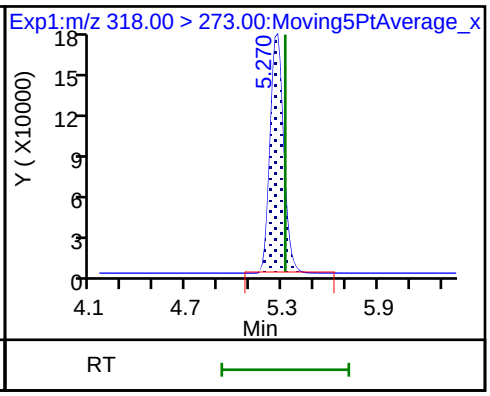
14 NFDHA (ND)



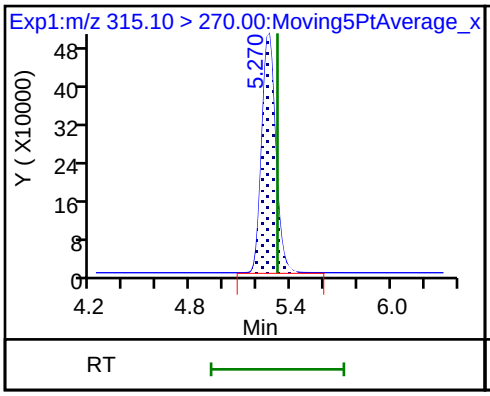
14 NFDHA (ND)



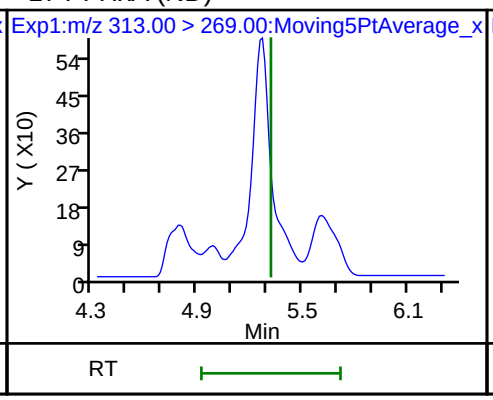
D 15 13C5 PFHxA



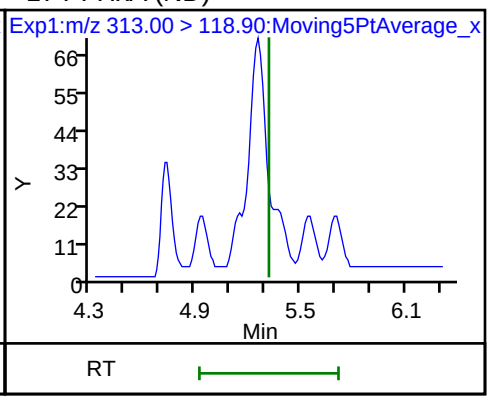
* 16 13C2 PFHxA



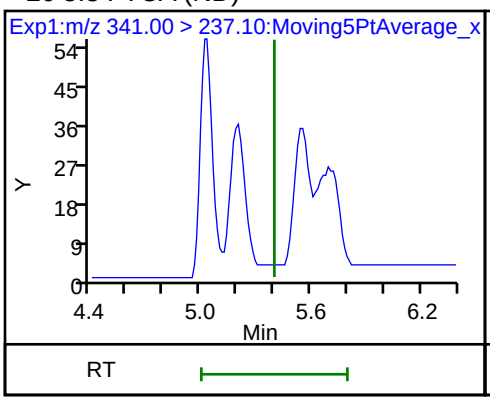
17 PFHxA (ND)



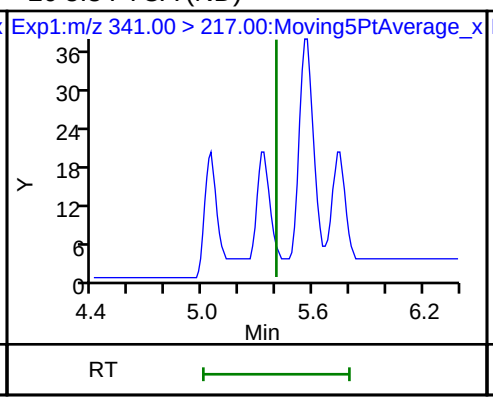
17 PFHxA (ND)



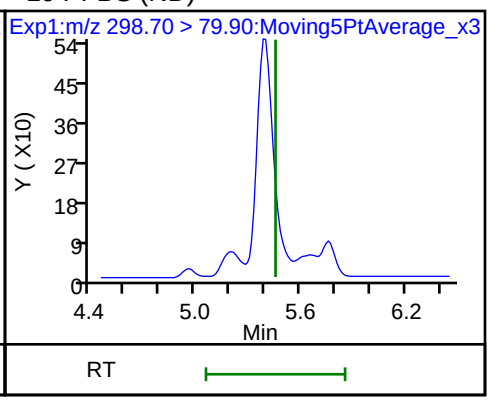
20 5:3 FTCA (ND)



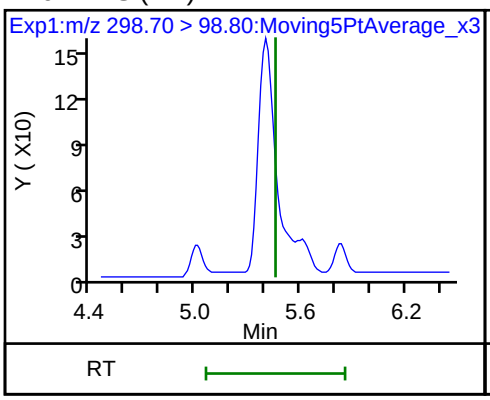
20 5:3 FTCA (ND)



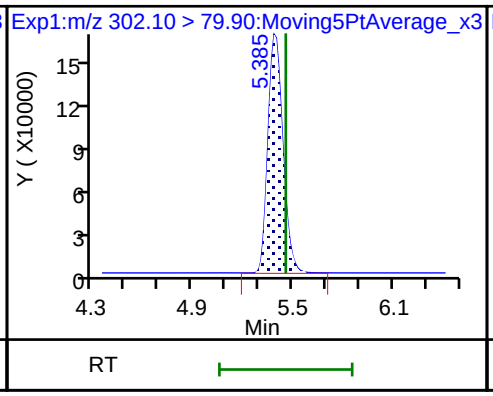
19 PFBS (ND)



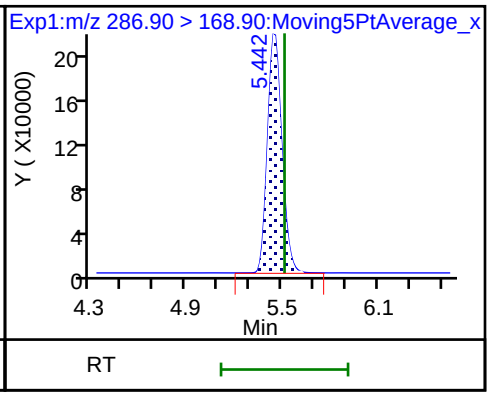
19 PFBS (ND)



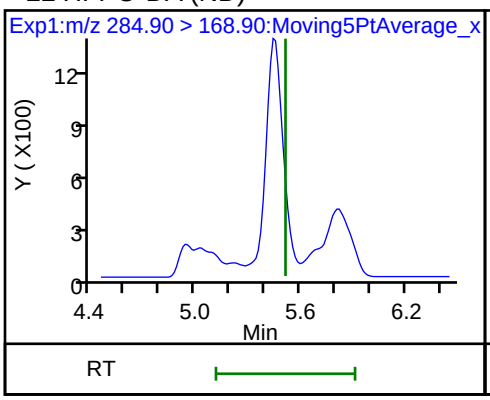
D 18 13C3 PFBS



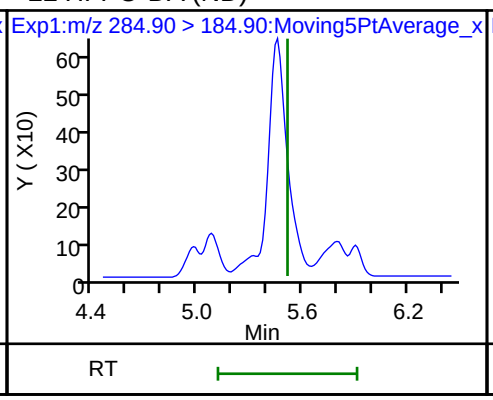
D 21 13C3 HFPO-DA



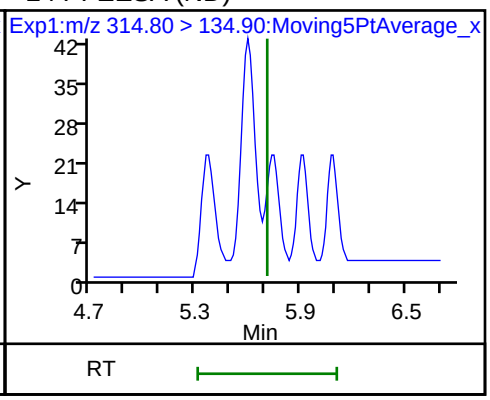
22 HFPO-DA (ND)



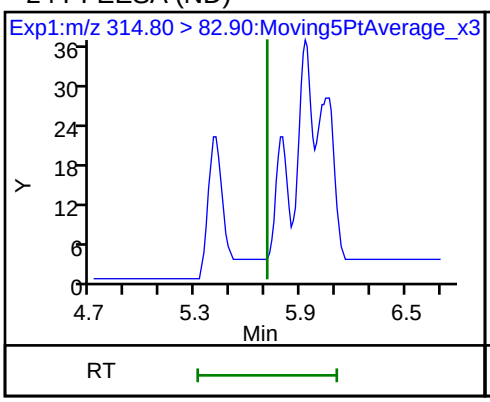
22 HFPO-DA (ND)



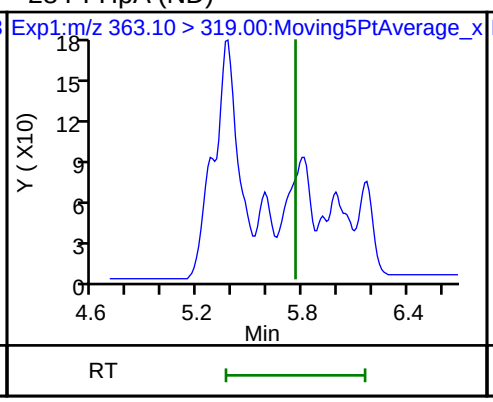
24 PFEESA (ND)



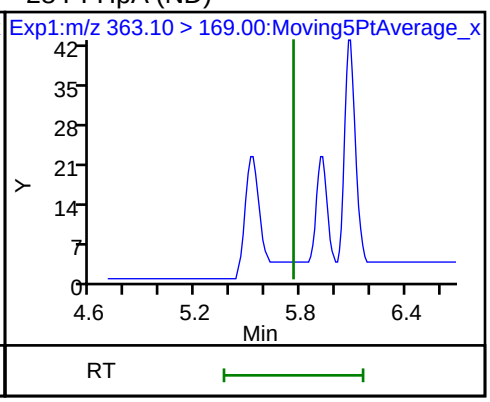
24 PFEESA (ND)



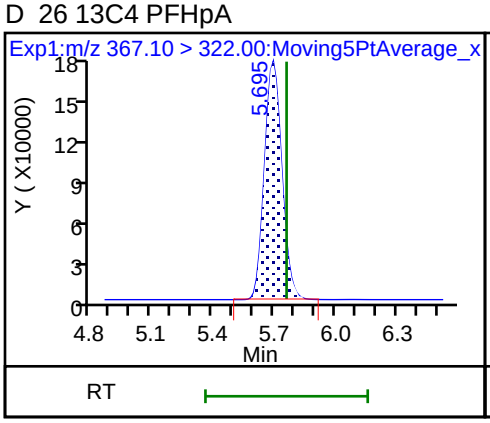
28 PFHpA (ND)



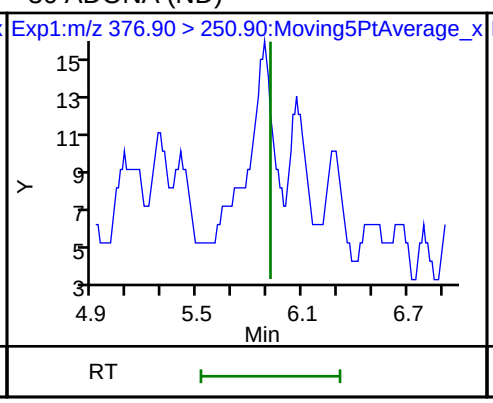
28 PFHpA (ND)



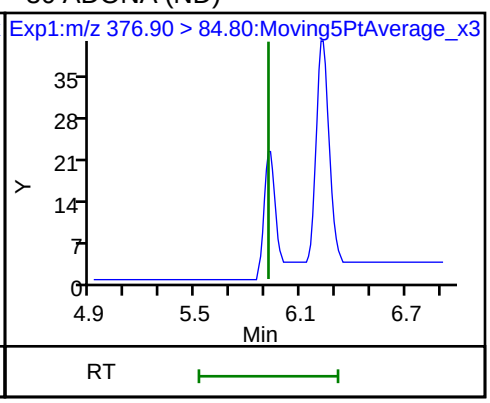
D 26 13C4 PFHpA



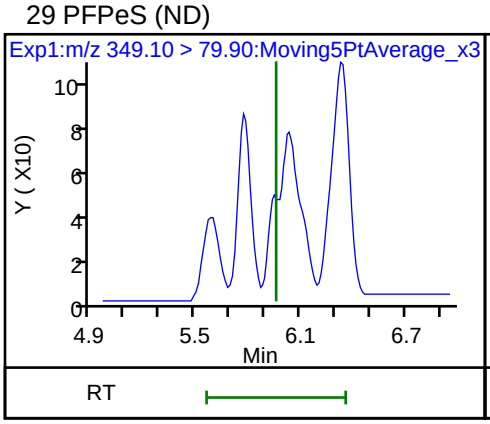
30 ADONA (ND)



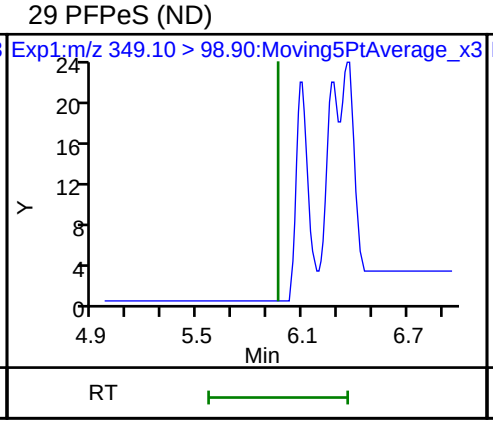
30 ADONA (ND)



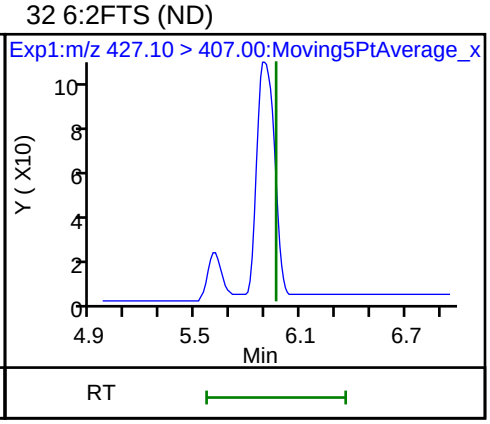
29 PFPeS (ND)



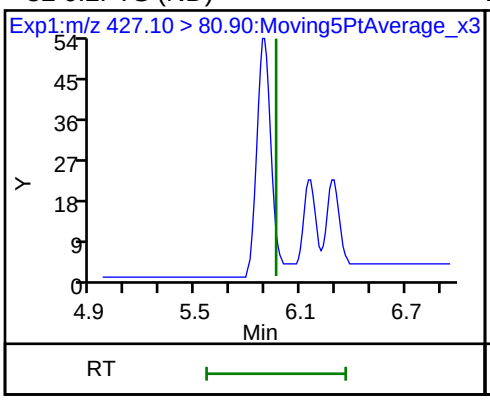
29 PFPeS (ND)



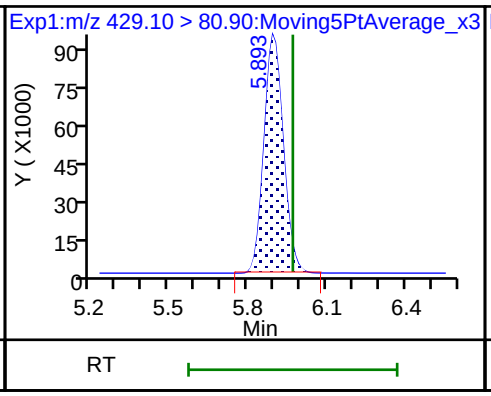
32 6:2FTS (ND)



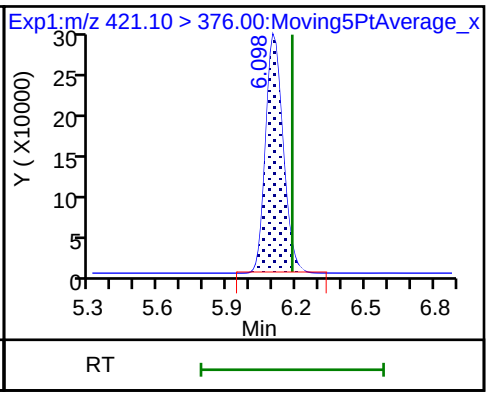
32 6:2FTS (ND)



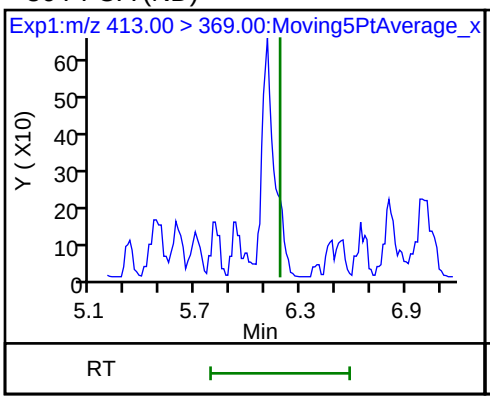
D 31 13C2-6:2FTS



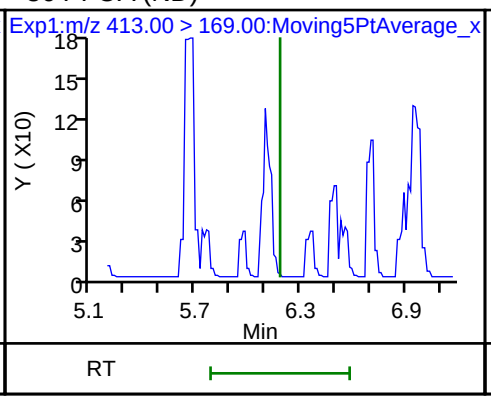
D 34 13C8 PFOA



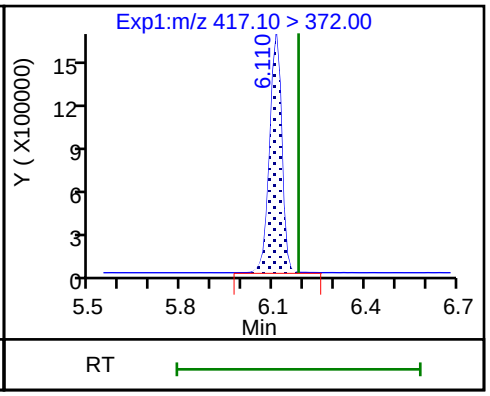
36 PFOA (ND)



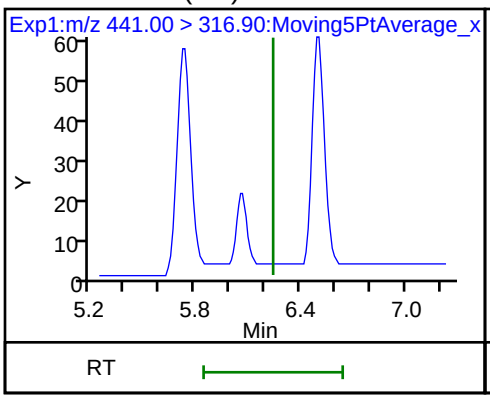
36 PFOA (ND)



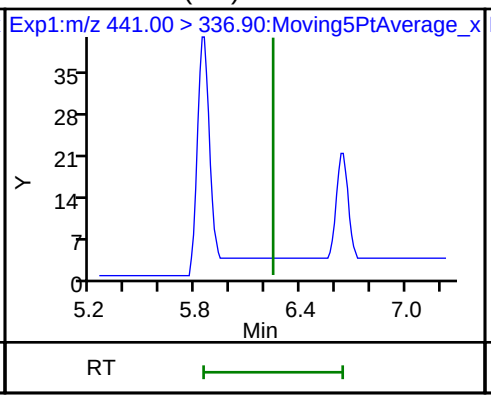
* 35 13C4 PFOA



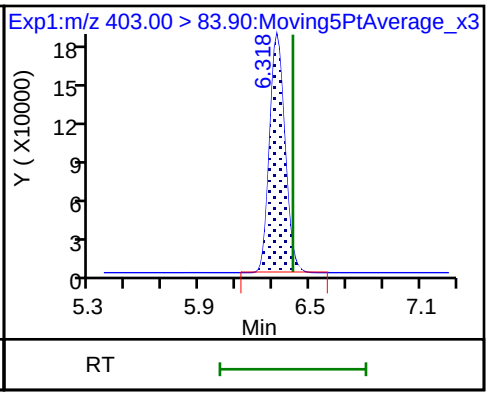
39 7:3 FTCA (ND)



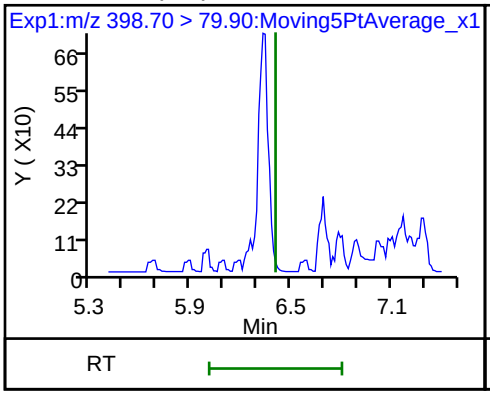
39 7:3 FTCA (ND)



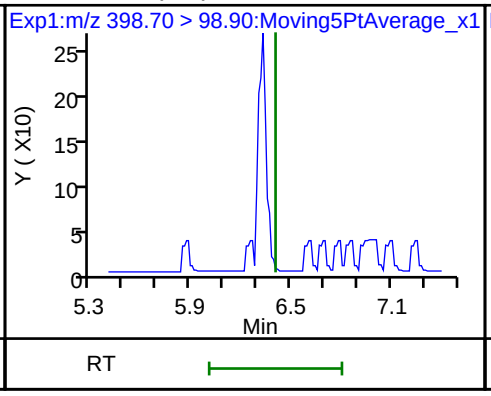
* 37 18O2 PFHxS



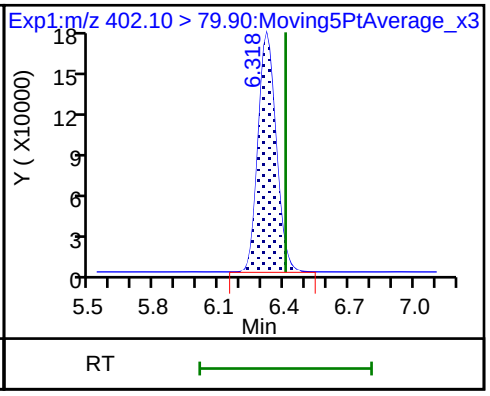
40 PFHxS (ND)



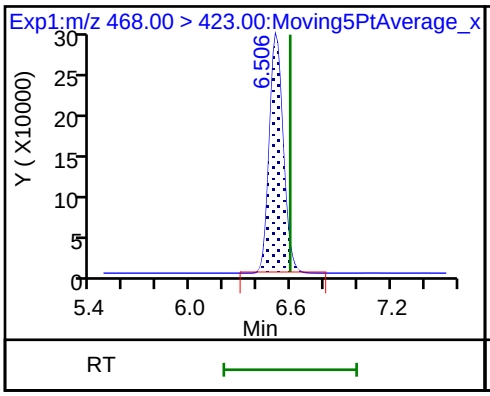
40 PFHxS (ND)



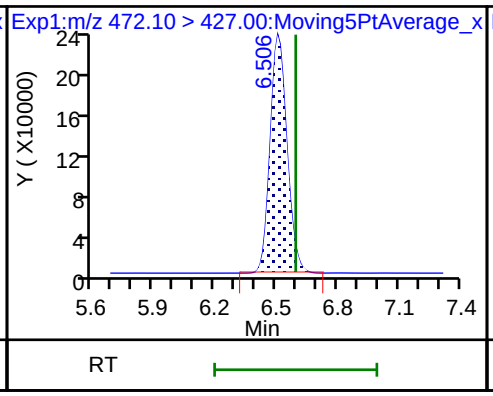
D 38 13C3 PFHxS



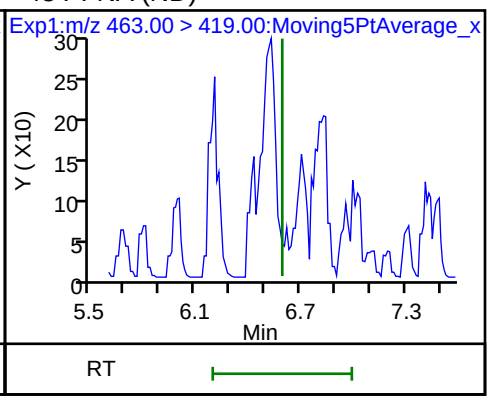
* 42 13C5 PFNA



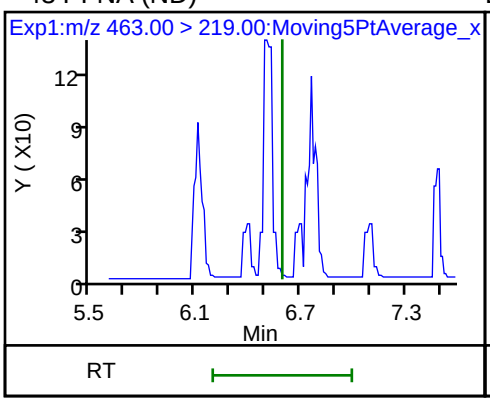
D 41 13C9 PFNA



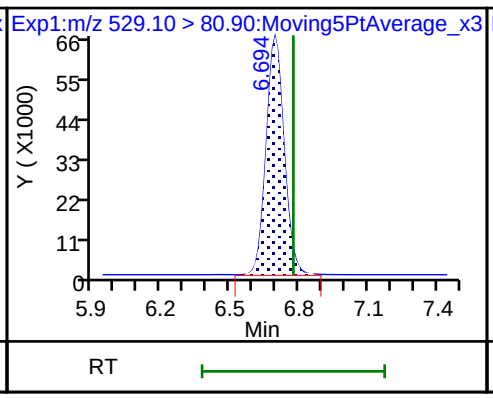
43 PFNA (ND)



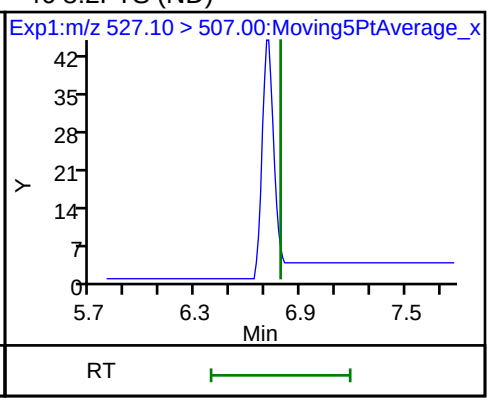
43 PFNA (ND)



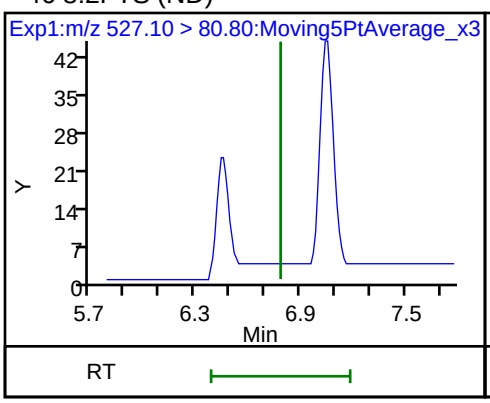
D 45 13C2-8:2FTS



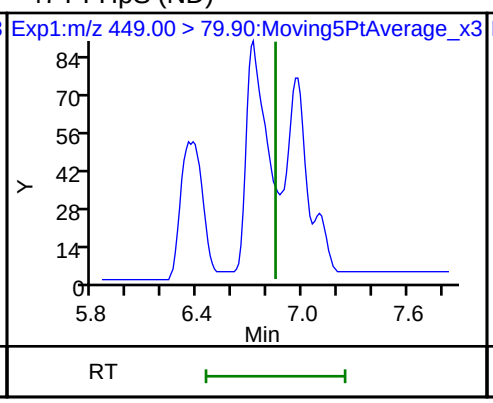
46 8:2FTS (ND)



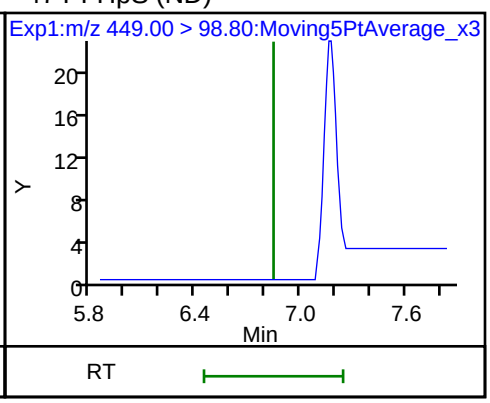
46 8:2FTS (ND)



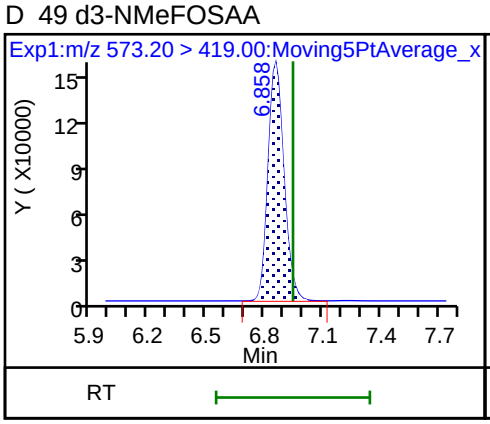
47 PFHpS (ND)



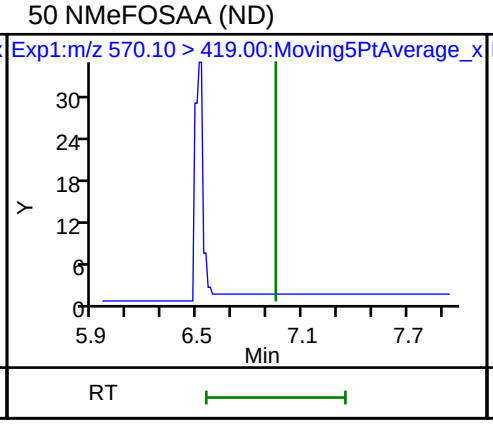
47 PFHpS (ND)



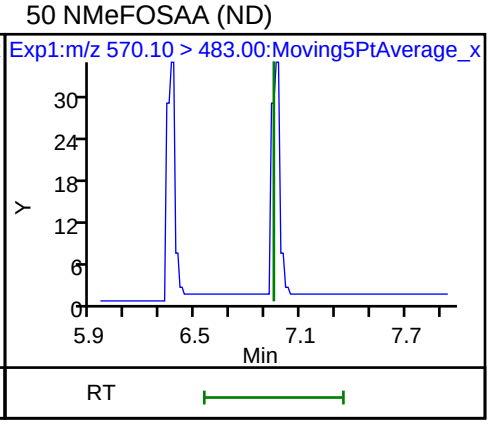
D 49 d3-NMeFOSAA



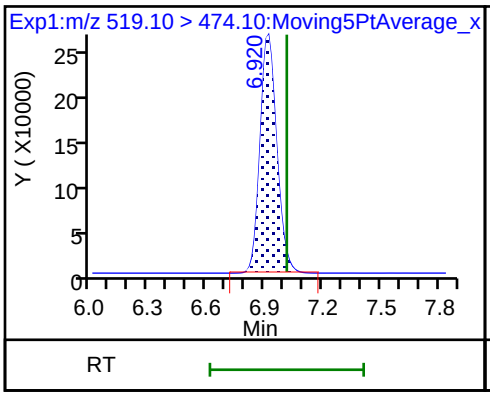
50 NMeFOSAA (ND)



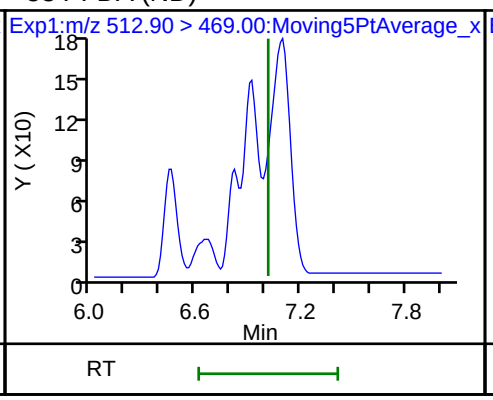
50 NMeFOSAA (ND)



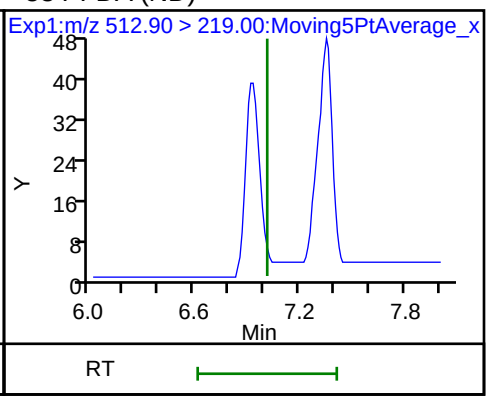
D 51 13C6 PFDA



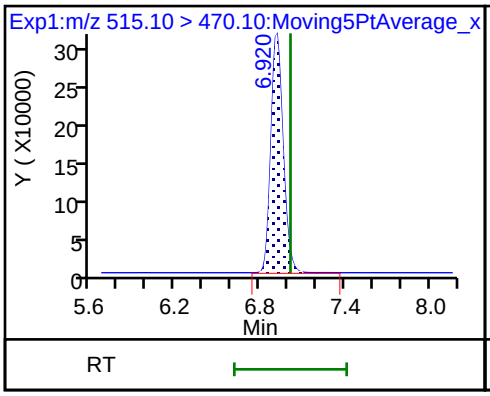
53 PFDA (ND)



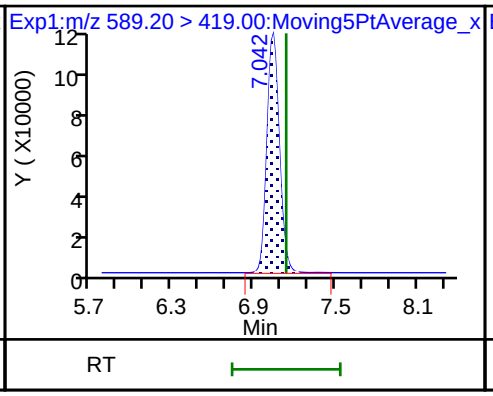
53 PFDA (ND)



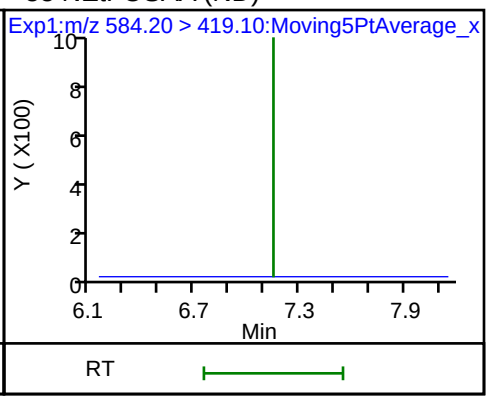
* 52 13C2 PFDA



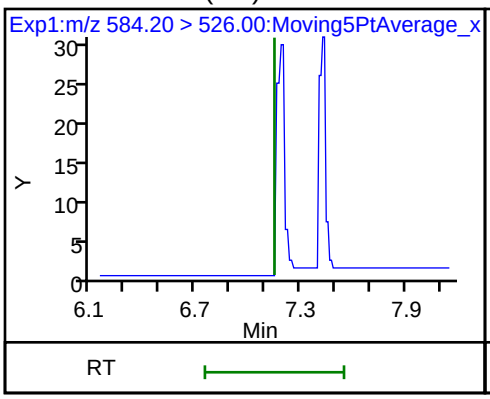
D 54 d5-NEtFOSAA



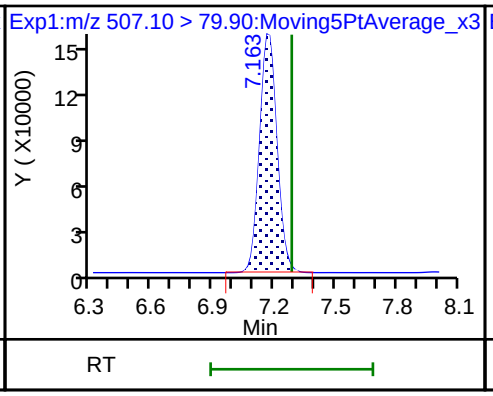
55 NEtFOSAA (ND)



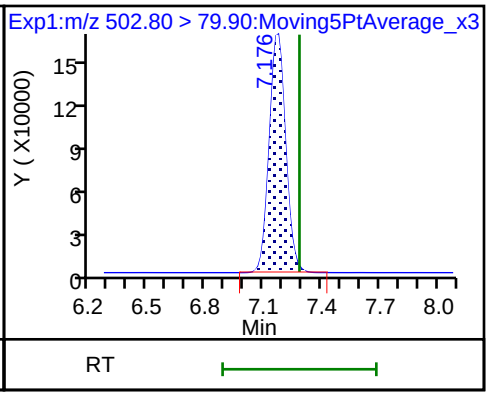
55 NEtFOSAA (ND)



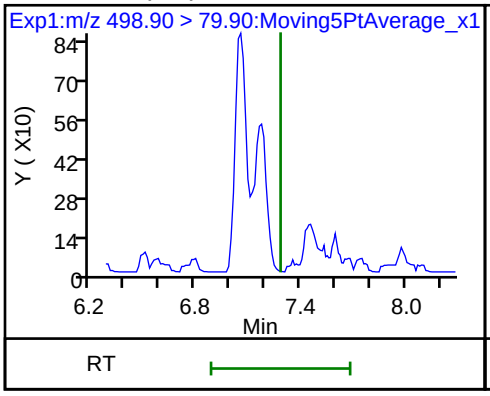
D 56 13C8 PFOS



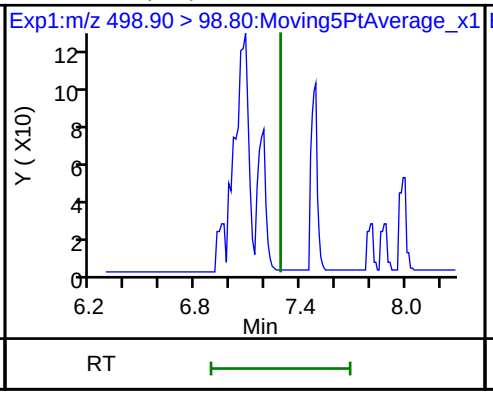
* 57 13C4 PFOS



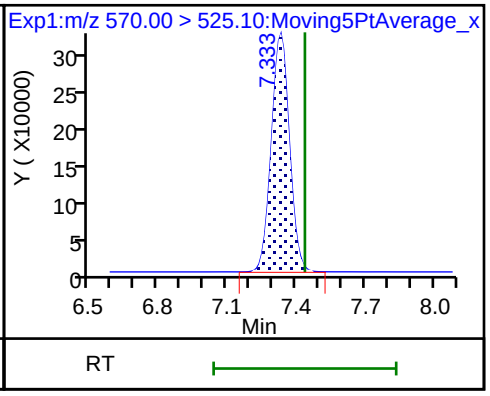
58 PFOS (ND)



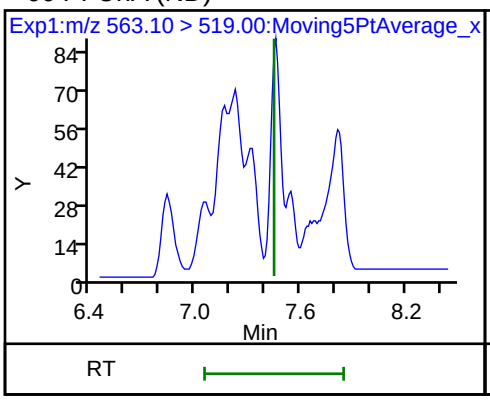
58 PFOS (ND)



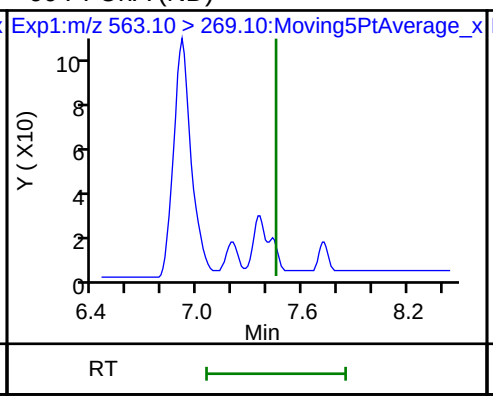
D 59 13C7 PFUnA



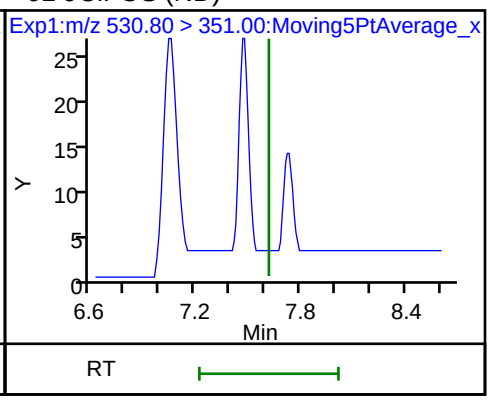
60 PFUnA (ND)



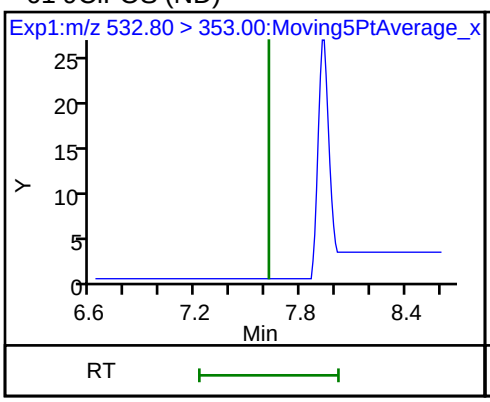
60 PFUnA (ND)



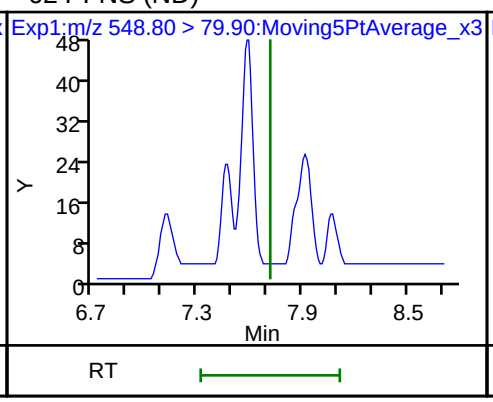
61 9ClFOS (ND)



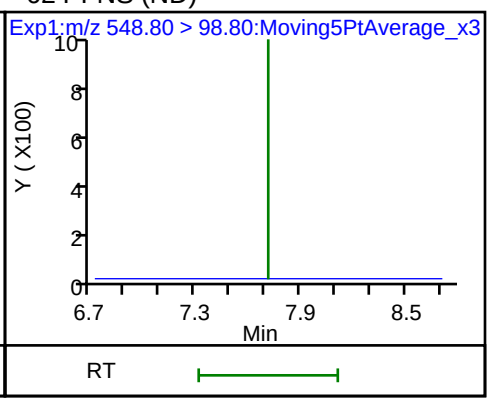
61 9ClFOS (ND)



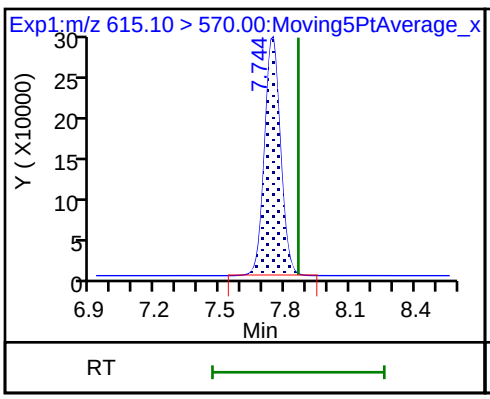
62 PFNS (ND)



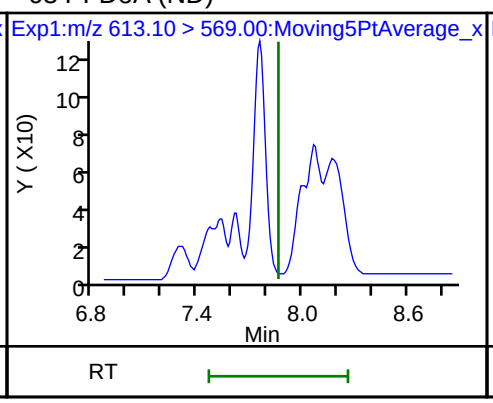
62 PFNS (ND)



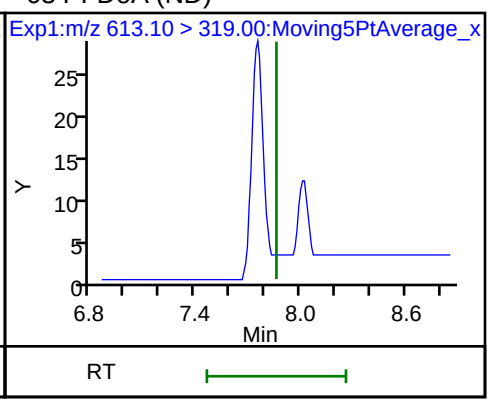
D 82 PFDoA



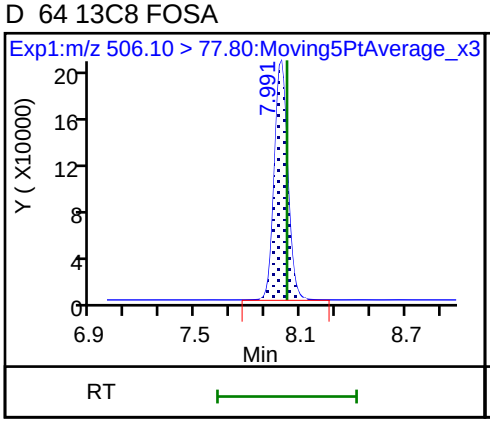
63 PFDoA (ND)



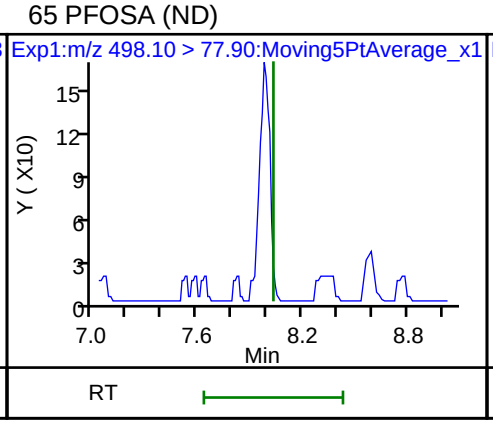
63 PFDoA (ND)



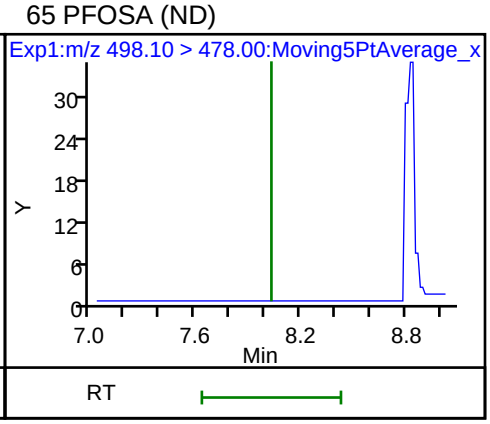
D 64 13C8 FOSA



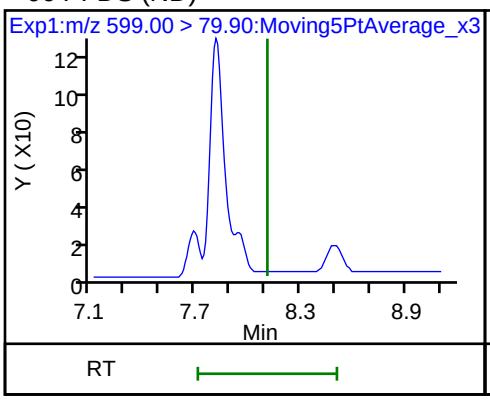
65 PFOSA (ND)



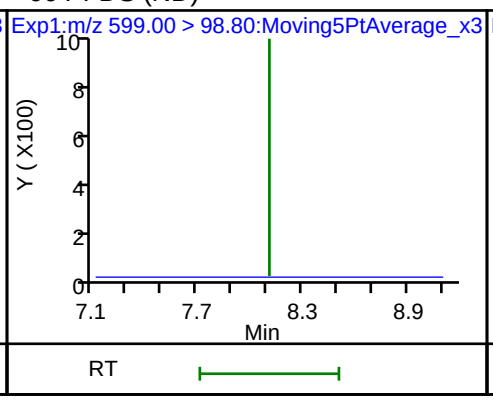
65 PFOSA (ND)



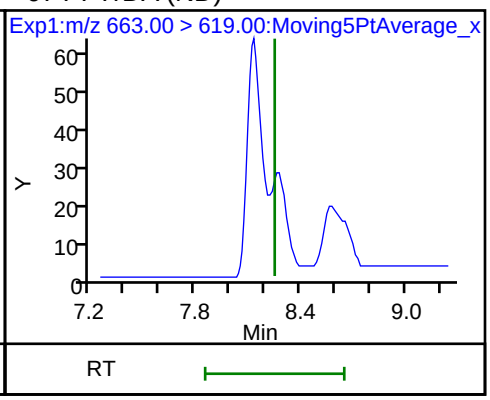
66 PFDS (ND)



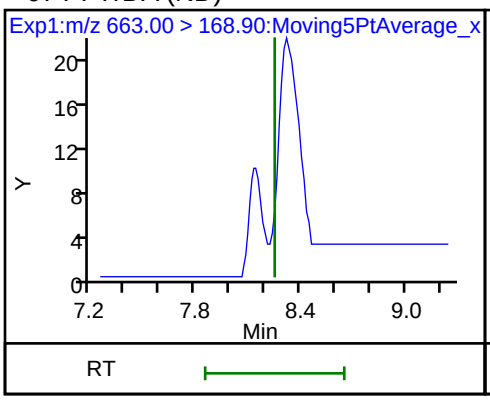
66 PFDS (ND)



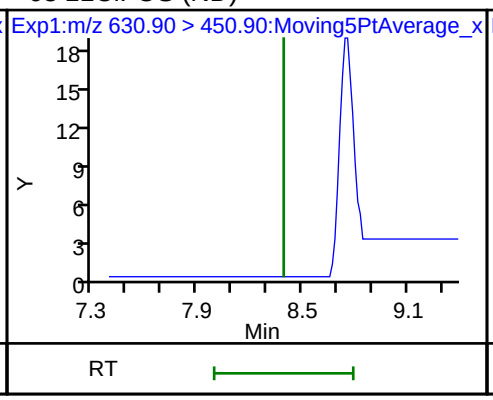
67 PFTrDA (ND)



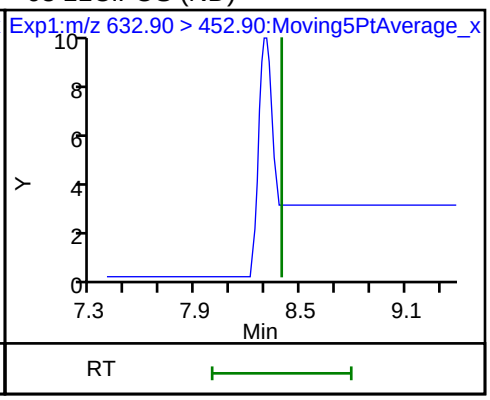
67 PFTrDA (ND)



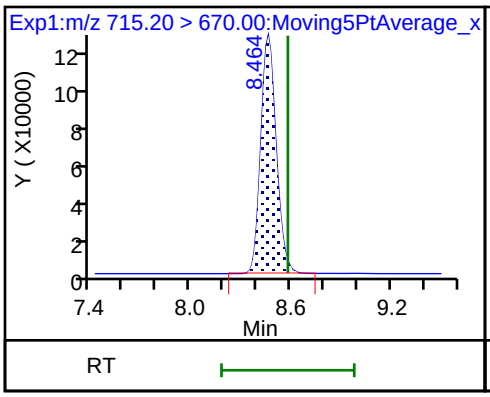
68 11ClFOS (ND)



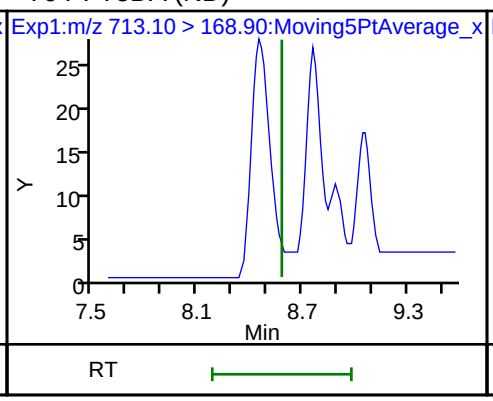
68 11ClFOS (ND)



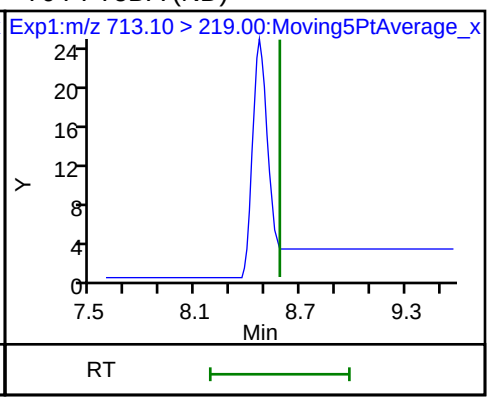
D 69 13C2 PFTeDA



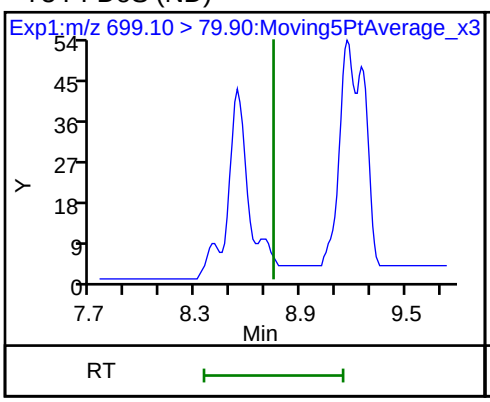
70 PFTeDA (ND)



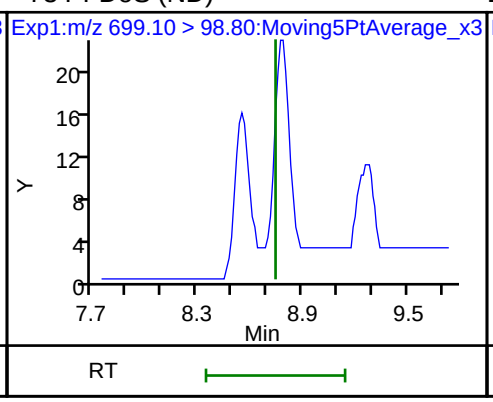
70 PFTeDA (ND)



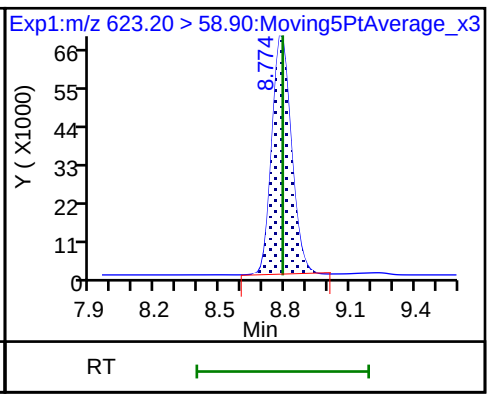
73 PFDoS (ND)



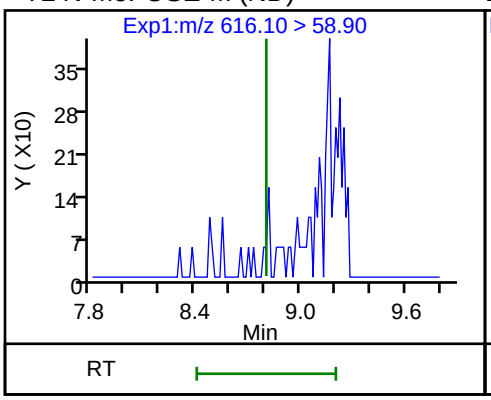
73 PFDoS (ND)



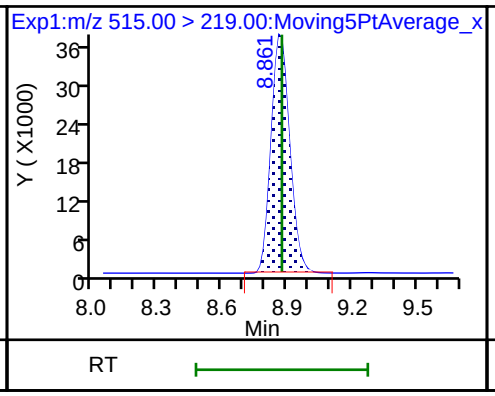
D 71 d7-N-Me-FOSE



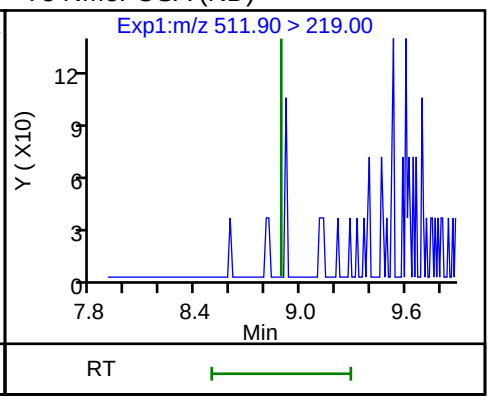
72 N-MeFOSE-M (ND)



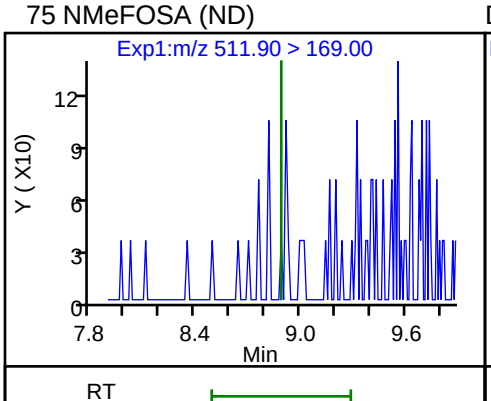
D 74 d3-NMePFOSA



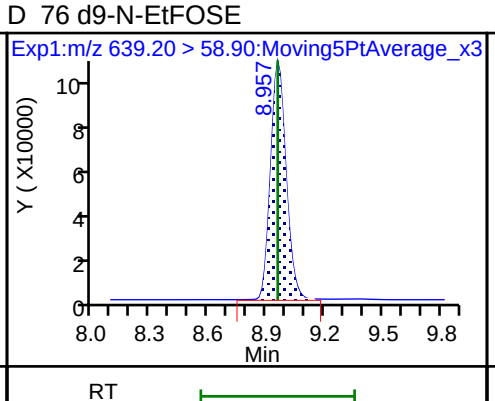
75 NMeFOSA (ND)



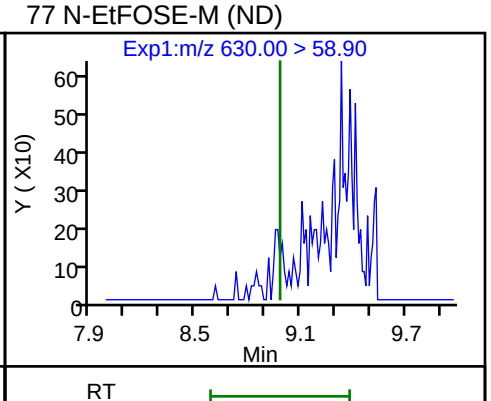
75 NMeFOSA (ND)



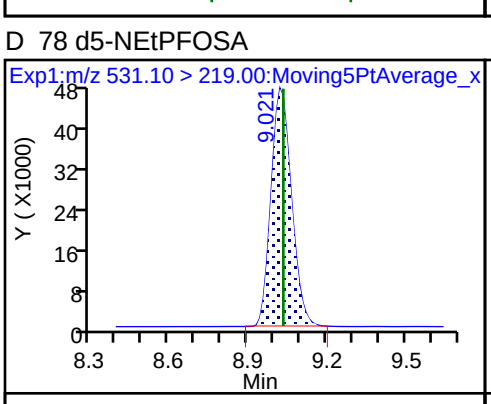
D 76 d9-N-EtFOSE



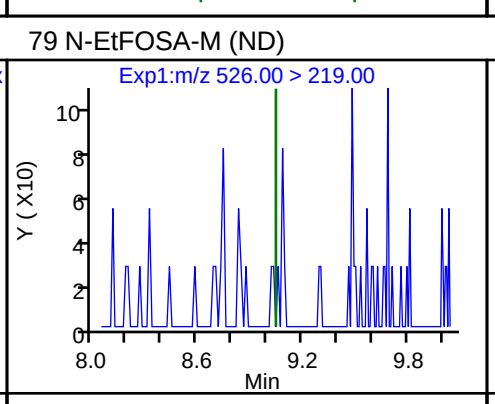
77 N-EtFOSE-M (ND)



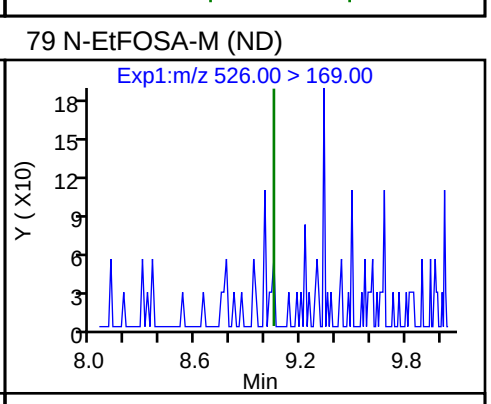
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-605295/1	25FEB12-CAL-05.d
Level 2	IC 410-605295/2	25FEB12-CAL-06.d
Level 3	IC 410-605295/3	25FEB12-CAL-07.d
Level 4	IC 410-605295/4	25FEB12-CAL-08.d
Level 5	ICISAV 410-605295/5	25FEB12-CAL-09.d
Level 6	IC 410-605295/6	25FEB12-CAL-10.d
Level 7	IC 410-605295/7	25FEB12-CAL-11.d
Level 8	IC 410-605295/8	25FEB12-CAL-12.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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoropropionic acid (PFPrA)	0.9920 0.9090	0.9906 0.9119	0.9833	1.0145	0.9818	AveID		0.9690				4.3		20.0			
Perfluorobutanoic acid	0.8407 0.8789	0.8649 0.8478	0.9023 0.8330	0.9428	0.9447	AveID		0.8819				5.0		20.0			
Perfluoro-3-methoxypropanoic acid	1.8142 1.6371	1.6157 1.7413	1.7485	1.7936	1.7755	AveID		1.7323				4.4		20.0			
3:3 FTCA	0.0898 0.0929	0.0819 0.0888	0.0974	0.1056	0.0950	AveID		0.0931				8.0		20.0			
Perfluoropentanoic acid	1.6255 1.4299	1.4633 1.4965	1.5811 1.2085	1.6301	1.5774	AveID		1.5015				9.3		20.0			
Perfluoro(4-methoxybutanoic acid)	1.5625 1.5693	1.4628 1.6301	1.5351	1.6753	1.6648	AveID		1.5857				4.8		20.0			
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.6790 1.5243	1.3029 1.3361	1.5140	1.5819	1.4677	AveID		1.4866				8.9		20.0			
Perfluoro-3,6-dioxaheptanoic acid	0.8068 0.7853	0.8188 0.7521	0.8614	0.8600	0.7981	AveID		0.8118				4.9		20.0			
Perfluorohexanoic acid	1.0436 0.8942	0.9217 0.8734	0.9949 0.7859	0.9768	0.9569	AveID		0.9309				8.6		20.0			
5:3 FTCA	0.1856 0.1614	0.1717 0.1601	0.1711	0.1664	0.1698	AveID		0.1694				5.0		20.0			
Perfluorobutanesulfonic acid	0.8557 0.9794	0.9944 0.9602	1.1436 0.8885	1.0391	1.0097	AveID		0.9838				9.0		20.0			
Perfluorobutanesulfonamide (FBSA)	0.8805 1.0106	1.1106 1.0210	1.0620	1.1127	1.0528	AveID		1.0358				7.6		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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
HFPO-DA	1.0471 1.0062	1.0074 0.9297	1.0597 0.8226	1.1069	1.0085	AveID		0.9985				8.8		20.0			
PFEESA	2.6246 2.6988	2.6924 2.7590	2.7025	3.0232	2.6480	AveID		2.7355				4.9		20.0			
Perfluoroheptanoic acid	0.9594 0.9544	1.0314 0.8927	1.0102 0.8165	0.9629	0.9987	AveID		0.9533				7.3		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.0350 1.8608	1.8091 1.7508	1.9492 +++++	2.0859	1.8571	AveID		1.9068				6.4		20.0			
Perfluoropentanesulfonic acid	0.8949 0.9738	1.0160 0.9430	1.0651 0.8982	1.0704	1.0251	AveID		0.9858				7.0		20.0			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.7843 1.4468	1.4273 1.5995	1.6388	1.6969	1.6298	AveID		1.6033				8.0		20.0			
Bis(trifluoromethane)sulfonamide (TFSI)	1.9707 2.2161	1.9005 2.3618	2.3465	2.5190	2.4401	L2ID	-0.0244	2.3600				7.1		20.0			
Perfluorooctanoic acid	1.0428 0.7803	0.8373 0.8573	0.8213 0.7125	0.8336	0.8244	L2ID	0.0117	0.7924				6.3		20.0			
7:3 FTCA	0.1950 0.1997	0.2007 0.1906	0.1989	0.2094	0.1895	AveID		0.1977				3.4		20.0			
Perfluorohexanesulfonic acid	0.9888 0.7531	0.7917 0.7785	0.8044 0.7667	0.8937	0.8292	AveID		0.8258				9.6		20.0			
Perfluorononanoic acid	0.8697 0.7978	0.7847 0.8257	0.8371 0.7350	0.8755	0.8520	AveID		0.8222				5.8		20.0			
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.4159 1.2113	1.4455 1.2514	1.5121	1.4878	1.4228	AveID		1.3924				8.3		20.0			
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.2976 0.3105	0.3554 0.3100	0.3028	0.3364	0.3583	AveID		0.3244				7.8		20.0			
Perfluoroheptanesulfonic acid	0.9613 1.0834	1.1979 0.9888	1.1116 0.9858	1.1289	1.0529	AveID		1.0638				7.7		20.0			
Perfluorohexanesulfonamide (FHxSA)	1.2002 1.1216	1.1740 1.1676	1.2138	1.3531	1.2593	AveID		1.2128				6.2		20.0			
NMeFOSAA	0.9629 0.9833	0.8733 1.0101	1.0737	1.1033	1.0224	AveID		1.0041				7.5		20.0			
Perfluorodecanoic acid	0.8288 0.8603	0.8340 0.8385	0.8758	0.9424	0.8527	AveID		0.8618				4.5		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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
NEtFOSAA	0.6531 0.8447	0.8864 0.8445	0.9933	0.8683	0.8979	L2ID	-0.011	0.9041				7.9		20.0			
Perfluorooctanesulfonic acid	1.3522 1.2388	1.2352 1.2336	1.2966 1.1401	1.3579	1.3220	AveID		1.2721				5.8		20.0			
Perfluoroundecanoic acid	0.8939 0.7417	0.7670 0.7322	0.8152	0.8243	0.8564	AveID		0.8044				7.5		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.2877 1.2418	1.1705 1.1653	1.2642	1.2954	1.1178	AveID		1.2204				5.7		20.0			
Perfluorononanesulfonic acid	0.8519 0.8722	0.8309 0.8494	0.8849	0.9378	0.8640	AveID		0.8702				4.0		20.0			
Perfluorododecanoic acid	0.9722 0.8696	0.9163 0.8801	0.9331	0.9779	1.0068	AveID		0.9366				5.5		20.0			
Perfluorooctanesulfonamide	0.9324 0.8584	0.8881 0.8885	0.9112	0.9169	0.9200	AveID		0.9022				2.8		20.0			
Perfluorodecanesulfonic acid	0.8713 0.9062	0.9649 0.8544	0.9309	1.0538	0.9283	AveID		0.9300				7.1		20.0			
Perfluorotridecanoic acid	1.1673 1.1110	1.0784 1.0818	1.1544	1.2288	1.1886	AveID		1.1443				4.9		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.1837 1.1462	1.0737 1.1157	1.2454	1.2100	1.0791	AveID		1.1505				5.7		20.0			
Perfluorotetradecanoic acid	0.1595 0.1705	0.1624 0.1883	0.1752	0.1903	0.1805	AveID		0.1752				6.8		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.9073 0.9915	1.0662 0.9208	1.0273	1.1514	1.1153	AveID		1.0257				9.0		20.0			
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.8652 1.7955	1.7116 1.7971	1.8238	1.9945	1.9036	AveID		1.8416				4.9		20.0			
NMeFOSA	1.1646 0.9384	1.1173 0.9418	1.0325	1.0172	1.0631	AveID		1.0393				8.1		20.0			
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.7589 1.8159	1.7604 1.7449	1.8543	1.9477	1.8897	AveID		1.8245				4.2		20.0			
N-ethylperfluoro-1-octanesulfonamide	1.1111 0.9872	1.1582 1.0264	1.0838	1.0873	1.0582	AveID		1.0732				5.2		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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-octadecanoic acid (PFODA)	2.7184 2.4697	2.5363 2.3800	2.4650	2.7446	2.5170	AveId		2.5473				5.3		20.0			
13C3 PFPrA	0.6023 0.6305	0.6246 0.6300	0.6070 0.7801	0.6034	0.6333	Ave		0.6389				9.2		20.0			
13C4 PFBA	1.0912 1.0612	1.0693 1.0798	1.0687 1.0558	1.0493	1.0713	Ave		1.0683				1.2		20.0			
13C5 PFPeA	0.5902 0.5601	0.6388 0.6445	0.6310 0.6035	0.6086	0.6044	Ave		0.6101				4.6		20.0			
M2-4:2 FTS	0.1413 0.1569	0.1446 0.1584	0.1664 0.1673	0.1576	0.1689	Ave		0.1577				6.5		20.0			
13C5 PFHxA	0.9155 0.8027	0.8811 0.9248	0.8906 0.8791	0.8812	0.8978	Ave		0.8841				4.2		20.0			
13C3 PFBS	1.1346 1.1116	0.9884 1.1244	1.0511 1.1070	1.1052	1.1493	Ave		1.0965				4.8		20.0			
13C3 HFPO-DA	1.0528 0.9616	1.1236 1.1786	1.0864 1.1502	1.0493	1.1400	Ave		1.0928				6.4		20.0			
13C4 PFHpA	0.9166 0.8217	0.8927 1.0025	0.9001 0.8638	0.9037	0.8731	Ave		0.8968				5.8		20.0			
M2-6:2 FTS	0.1558 0.1684	0.1790 0.1547	0.1672 0.1685	0.1626	0.1652	Ave		0.1652				4.7		20.0			
13C8 PFOA	1.0196 1.0854	1.0727 1.0171	1.0644 1.0751	1.0661	1.1343	Ave		1.0669				3.5		20.0			
13C3 PFHxS	0.9870 1.0185	0.9753 1.0583	1.0771 1.0125	1.0043	1.0708	Ave		1.0255				3.8		20.0			
13C9 PFNA	0.9877 1.0276	1.0412 1.0119	1.0977 1.0153	0.9950	1.0155	Ave		1.0240				3.3		20.0			
M2-8:2 FTS	0.1370 0.1442	0.1371 0.1388	0.1340 0.1557	0.1393	0.1534	Ave		0.1424				5.7		20.0			
d3-NMeFOSAA	0.3004 0.3648	0.3553 0.3343	0.3237 0.4243	0.3390	0.3454	Ave		0.3484				10.5		20.0			
13C6 PFDA	1.0102 1.0523	1.0830 1.0630	1.0284 1.0686	0.9884	1.1418	Ave		1.0545				4.5		20.0			
d5-NEtFOSAA	0.2810 0.3069	0.2756 0.2805	0.2668 +++++	0.2915	0.2985	Ave		0.2858				4.9		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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
13C8 PFOS	1.0165 1.0449	1.0032 1.0320	0.9754 1.0741	0.9867	1.0597	Ave		1.0241				3.4		20.0			
13C7 PFUnA	1.0397 1.0553	0.9727 1.0283	0.9078 0.9646	0.9603	0.9444	Ave		0.9841				5.2		20.0			
13C2 PFDoA	0.8318 0.8490	0.8456 0.8465	0.7700 0.8117	0.8218	0.8468	Ave		0.8279				3.3		20.0			
13C8 FOSA	1.1220 1.2863	1.2120 1.1659	1.1168 1.4746	1.2193	1.1631	Ave		1.2200				9.6		20.0			
13C2 PFTeDA	0.6251 0.5965	0.5717 0.5743	0.5614 0.5810	0.5502	0.6215	Ave		0.5852				4.6		20.0			
d7-N-MeFOSE-M	0.1740 0.2041	0.1849 0.1856	0.1773 0.2207	0.1877	0.1835	Ave		0.1897				8.1		20.0			
d3-NMePFOSA	0.2770 0.3523	0.3073 0.3261	0.2907 0.3732	0.3232	0.3127	Ave		0.3203				9.8		20.0			
d9-N-EtFOSE-M	0.2336 0.2523	0.2361 0.2360	0.2314 0.2905	0.2517	0.2430	Ave		0.2468				7.8		20.0			
d5-NEtPFOSA	0.3279 0.3864	0.3469 0.3587	0.3271 0.4247	0.3650	0.3518	Ave		0.3610				8.9		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-207884-1 | Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 | GC Column: Gemini C18 ID: 3(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 | Calibration End Date: 02/12/2025 14:20 | Calibration ID: 69682

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-605295/1	25FEB12-CAL-05.d
Level 2	IC 410-605295/2	25FEB12-CAL-06.d
Level 3	IC 410-605295/3	25FEB12-CAL-07.d
Level 4	IC 410-605295/4	25FEB12-CAL-08.d
Level 5	ICISAV 410-605295/5	25FEB12-CAL-09.d
Level 6	IC 410-605295/6	25FEB12-CAL-10.d
Level 7	IC 410-605295/7	25FEB12-CAL-11.d
Level 8	IC 410-605295/8	25FEB12-CAL-12.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluoropropionic acid (PFPrA)		AveID	95545 8795189	241557 16976838	950539	1934896	4926847	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanoic acid		AveID	58683 5724767	144422 10820997	614291 44403776	1250782	3207885	0.100 10.0	0.250 20.0	1.00 100	2.00	5.00
Perfluoro-3-methoxypropanoic acid		AveID	34191 3124030	80235 6514680	344419	686147	1754915	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
3:3 FTCA		AveID	3386 354722	8132 664756	38371	80791	187847	0.100 10.0	0.250 20.0	1.00	2.00	5.00
Perfluoropentanoic acid		AveID	30634 2728592	72668 5598940	311446 21257607	623592	1559192	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
Perfluoro(4-methoxybutanoic acid)		AveID	29447 2994665	72642 6098963	302390	640868	1645536	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)		AveID	11583 1146754	23320 1924297	119990	235021	581437	0.0934 9.34	0.234 18.7	0.934	1.87	4.67
Perfluoro-3,6-dioxaheptanoic acid		AveID	23585 2147667	56082 4037893	239474	476332	1171921	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorohexanoic acid		AveID	30507 2445472	63127 4688630	276591 20138654	540996	1405117	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
5:3 FTCA		AveID	27127 2206364	58785 4298562	237771	460790	1246582	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanesulfonic acid		AveID	22530 2481521	57838 4667781	272125 20211996	514818	1293904	0.0444 4.44	0.111 8.88	0.444 44.4	0.888	2.22
Perfluorobutanesulfonamide (FBSA)		AveID	26109 2883438	72746 5589480	284564	620817	1519367	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
HFPO-DA		AveID	26403 2472250	65997 4770527	269530 27578368	547545	1410255	0.0375 3.75	0.0938 7.50	0.375 50.0	0.750	1.88
PFEESA		AveID	68285 6583619	164125 13212109	670173	1493618	3468404	0.0445 4.46	0.111 8.92	0.446	0.892	2.23

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluoroheptanoic acid		AveID	28080 2671688	71578 5194962	283821 20557415	546920	1426144	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	64721 5766987	149481 11331534	625320 +++++	1301455	3275744	0.0473 4.73	0.118 9.46	0.473 +++++	0.946	2.37
Perfluoropentanesulfonic acid		AveID	21697 2392866	61727 4567132	274907 19781975	510129	1295589	0.0470 4.70	0.118 9.40	0.470 47.0	0.940	2.35
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		AveID	13772 1185749	32092 2284929	132462	264037	641012	0.0948 9.48	0.237 19.0	0.948	1.90	4.74
Bis(trifluoromethane)sulfonamide (TFSI)		L2ID	49760 5671285	120250 11913612	630801	1250330	3211724	0.0490 4.90	0.122 9.79	0.490	0.979	2.45
Perfluorooctanoic acid		L2ID	39327 3086984	80333 6351875	329402 26196533	660238	1646068	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
7:3 FTCA		AveID	28506 2731297	68742 5116253	276494	580034	1391158	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorohexanesulfonic acid		AveID	23260 1795478	46669 3658226	201445 16381840	413223	1016755	0.0456 4.56	0.114 9.12	0.456 45.6	0.912	2.28
Perfluorononanoic acid		AveID	29620 2678115	70247 5118774	281049 22683209	569929	1494375	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)		AveID	9713 858731	25166 1620753	98935	200414	525236	0.0958 9.58	0.240 19.2	0.958	1.92	4.79
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)		AveID	7092 749898	21224 1475982	76815	157595	445147	0.0462 4.62	0.116 9.24	0.462	0.924	2.31
Perfluoroheptanesulfonic acid		AveID	23281 2325857	66704 4458851	257653 19826372	472654	1264381	0.0477 4.77	0.119 9.54	0.477 47.7	0.954	2.39
Perfluorohexanesulfonamide (FHxSA)		AveID	30955 2931875	75877 6015991	333281	685998	1693076	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
NMeFOSAA		AveID	7222 772626	18050 1546933	86577	166342	419486	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanoic acid		AveID	26652 2810570	70471 5362857	313435	607309	1542870	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
NEtFOSAA		L2ID	4583 558295	14211 1085043	66006	112574	318338	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonic acid		AveID	31923 2592488	67054 5422973	292963 22352778	554257	1547542	0.0465 4.65	0.116 9.30	0.465 46.5	0.930	2.33
Perfluoroundecanoic acid		AveID	29583 2430064	58211 4529727	257528	516066	1281594	0.0500 5.00	0.125 10.0	0.500	1.00	2.50

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid		AveID	40435 3799967	95489 7446148	400417	797979	1946597	0.0467 4.67	0.117 9.34	0.467	0.934	2.34
Perfluorononanesulfonic acid		AveID	20803 1888224	46659 3862553	206825	395959	1046238	0.0481 4.81	0.120 9.62	0.481	0.962	2.41
Perfluorododecanoic acid		AveID	25740 2292218	60459 4482817	250033	523911	1350933	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonamide		AveID	26123 2377980	62621 4744864	253480	497290	1271006	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanesulfonic acid		AveID	21322 1965728	54295 3893346	218013	445821	1126414	0.0482 4.82	0.121 9.64	0.482	0.964	2.41
Perfluorotridecanoic acid		AveID	27065 2492924	59626 4624167	267417	549520	1382737	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		AveID	37566 3544788	88528 7205463	398697	753348	1899383	0.0472 4.72	0.118 9.44	0.472	0.944	2.36
Perfluorotetradecanoic acid		AveID	3173 315667	7243 650884	34220	68257	177775	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorododecanesulfonic acid (PFDoS)		AveID	22340 2164315	60370 4222028	242097	490171	1361678	0.0485 4.85	0.121 9.70	0.485	0.970	2.43
2-(N-methylperfluoro-1-octanesulfonamido) ethanol		AveID	40534 3946803	92066 7639883	402754	832790	2074309	0.250 25.0	0.625 50.0	2.50	5.00	12.5
NMeFOSA		AveID	8056 711948	19978 1406829	74765	146219	394861	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol		AveID	51307 4933474	120908 9431441	534495	1090254	2727240	0.250 25.0	0.625 50.0	2.50	5.00	12.5
N-ethylperfluoro-1-octanesulfonamide		AveID	9099 821489	23375 1686289	88289	176499	442151	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	54088 4573551	113144 8224785	481555	984436	2478924	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
13C3 PFPrA	13C3PFBA	Ave	770560 774013	780316 744696	773323 787721	762933	802923	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
13C4 PFBA	13C3PFBA	Ave	1396101 1302718	1335839 1276375	1361606 1066131	1326688	1358241	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C5 PFPeA	PFHxA	Ave	753852 763292	794556 748272	787921 703600	765099	790747	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
M2-4:2 FTS	PFHxS	Ave	346416 377780	359493 361589	397958 363229	373023	397858	4.69 4.69	4.69 4.69	4.69 4.69	4.69	4.69
13C5 PFHxA	PFHxA	Ave	1169313 1093917	1095871 1073696	1112029 1024973	1107745	1174732	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFBS	PFHxS	Ave	1105390 1063688	976723 1020468	998944 954978	1039989	1075982	1.86 1.86	1.86 1.86	1.86 1.86	1.86	1.86
13C3 HFPO-DA	PFHxA	Ave	1344770 1310467	1397534 1368311	1356500 1341095	1319062	1491647	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C4 PFHpA	PFHxA	Ave	1170700 1119747	1110329 1163855	1123852 1007097	1136030	1142367	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
M2-6:2 FTS	PFHxS	Ave	387544 411513	451592 358638	405840 371166	390651	394971	4.76 4.76	4.76 4.76	4.76 4.76	4.76	4.76
13C8 PFOA	PFOA	Ave	1508577 1582438	1535097 1481850	1604347 1470617	1584147	1597362	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFHxS	PFHxS	Ave	978039 991254	980334 976899	1041236 888421	961270	1019654	1.90 1.90	1.90 1.90	1.90 1.90	1.90	1.90
13C9 PFNA	PFNA	Ave	1362327 1342737	1432377 1239931	1342912 1234460	1301890	1403188	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
M2-8:2 FTS	PFHxS	Ave	343721 355205	348920 324476	327829 345942	337459	369924	4.80 4.80	4.80 4.80	4.80 4.80	4.80	4.80
d3-NMeFOSAA	PFOS	Ave	750049 785711	826778 765709	806325 832810	753832	820608	5.00 5.00	5.00 5.00	5.00 5.00	5.00	5.00
13C6 PFDA	PFDA	Ave	1286277 1306795	1352010 1279170	1431509 1412327	1288792	1447522	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
d5-NEtFOSAA	PFOS	Ave	701690 660911	641309 642393	664515 +++++	648217	709079	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
13C8 PFOS	PFOS	Ave	970717 860511	892833 903782	929057 806151	839137	962655	1.91 1.91	1.91 1.91	1.91 1.91	1.91	1.91
13C7 PFUnA	PFDA	Ave	1323736 1310606	1214267 1237375	1263654 1274860	1252173	1197182	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 PFDoA	PFDA	Ave	1059076 1054381	1055651 1018652	1071834 1072783	1071467	1073497	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C8 FOSA	PFOS	Ave	1120687 1108085	1128227 1068117	1112702 1157631	1084693	1105246	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 PFTeDA	PFDA	Ave	795876	713746	781420	717373	787887	2.00	2.00	2.00	2.00	2.00

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1 Analy Batch No.: 605295

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/12/2025 12:45 Calibration End Date: 02/12/2025 14:20 Calibration ID: 69682

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			740742	691148	767929			2.00	2.00	2.00		
d7-N-MeFOSE-M	PFOS	Ave	434623	430321	441656	417537	435873	5.00	5.00	5.00	5.00	5.00
			439628	425122	433160			5.00	5.00	5.00		
d3-NMePFOSA	PFOS	Ave	276696	286084	289634	287490	297126	2.00	2.00	2.00	2.00	2.00
			303467	298758	292956			2.00	2.00	2.00		
d9-N-EtFOSE-M	PFOS	Ave	583390	549462	576490	559760	577300	5.00	5.00	5.00	5.00	5.00
			543360	540508	570226			5.00	5.00	5.00		
d5-NEtPFOSA	PFOS	Ave	327577	322909	325864	324669	334266	2.00	2.00	2.00	2.00	2.00
			332843	328587	333386			2.00	2.00	2.00		

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-05.d
Lims ID: IC CAL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Feb-2025 12:45:23 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL1
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:37:51 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:37:51
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										M
163.00 > 119.00	2.102	2.054	0.048	1.012	95545	0.2559		102	334	M
D 1 13C3PFPrA										
166.00 > 121.00	2.078	2.054	0.024	0.497	770560	1.89		94.3	16313	
5 PFBA										
212.80 > 168.90	4.174	4.181	-0.007	0.998	58683	0.0953		95.3	888	
D 3 13C4-PFBA										
216.80 > 171.90	4.183	4.181	0.002	1.000	1396101	2.04		102	74194	
* 4 13C3PFBA										
216.00 > 172.00	4.183	4.181	0.002		1279424	2.00			33898	
6 PFMPA										
229.00 > 84.90	4.497	4.504	-0.007	0.933	34191	0.0524		105	2261	
7 3:3 FTCA										M
241.00 > 177.00	4.507	4.516	-0.009	0.935	3386	0.0965	Target=1.19	96.5	235	M
241.00 > 117.00	4.507	4.516	-0.009	0.935	3179		1.07(0.60-1.79)	96.5	217	M
D 8 13C5 PFPeA										
268.30 > 223.00	4.821	4.832	-0.011	0.915	753852	1.93		96.7	50525	
9 PFPA										
263.00 > 219.00	4.821	4.832	-0.011	1.000	30634	0.0541		108	1518	
10 PFMBA										
279.00 > 85.10	4.975	4.975	0.0	1.032	29447	0.0493		98.5	1925	
12 4:2FTS										
327.10 > 307.00	5.089	5.102	-0.013	1.000	11583	0.1055	Target=1.52	113	725	
327.10 > 80.90	5.089	5.102	-0.013	1.000	6516		1.78(0.76-2.27)	113	244	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.089	5.102	-0.013	0.804	346416	4.20		89.6	21370	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.231	5.244	-0.013	0.992	23585	0.0497	Target=1.35	99.4	1378	
295.00 > 84.90	5.231	5.244	-0.013	0.992	19198		1.23(0.67-2.02)	99.4	1089	
* 16 13C2 PFHxA										
315.10 > 270.00	5.271	5.283	-0.012		3193169	5.00			188243	
17 PFHxA										
313.00 > 269.00	5.283	5.283	0.0	1.002	30507	0.0561	Target=11.80	112	1799	
313.00 > 118.90	5.283	5.283	0.0	1.002	2342		13.03(5.90-17.70)	112	140	
D 15 13C5 PFHxA										
318.00 > 273.00	5.271	5.283	-0.012	1.000	1169313	2.07		104	69495	
20 5:3 FTCA										
341.00 > 237.10	5.357	5.357	0.0	1.016	27127	0.2739	Target=1.01	110	1575	
341.00 > 217.00	5.357	5.357	0.0	1.016	21771		1.25(0.50-1.51)	110	1231	
19 PFBS										
298.70 > 79.90	5.400	5.414	-0.014	1.000	22530	0.0386	Target=3.05	87.0	1228	
298.70 > 98.80	5.400	5.414	-0.014	1.000	6959		3.24(1.53-4.58)	87.0	373	
25 FBSA										
297.90 > 78.00	5.400	5.414	-0.014	1.000	26109	0.0425		85.0	1396	
D 18 13C3 PFBS										
302.10 > 79.90	5.400	5.414	-0.014	0.853	1105390	1.93		103	60118	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.456	5.470	-0.014	1.035	1344770	1.93		96.3	72187	
22 HFPO-DA										
284.90 > 168.90	5.470	5.470	0.0	1.003	26403	0.0393	Target=2.44	105	845	
284.90 > 184.90	5.456	5.470	-0.014	1.000	9912		2.66(1.22-3.66)	105	517	
24 PFEESA										
314.80 > 134.90	5.639	5.653	-0.014	1.070	68285	0.0427	Target=12.34	95.9	3688	
314.80 > 82.90	5.639	5.653	-0.014	1.070	5240		13.03(6.17-18.50)	95.9	292	
28 PFHpA										
363.10 > 319.00	5.709	5.708	0.001	1.000	28080	0.0503	Target=2.64	101	1576	
363.10 > 169.00	5.709	5.708	0.001	1.000	9572		2.93(1.32-3.96)	101	525	
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.708	0.001	1.083	1170700	2.04		102	49789	
30 ADONA										
376.90 > 250.90	5.859	5.858	0.001	1.074	64721	0.0505	Target=1.75	107	6078	
376.90 > 84.80	5.859	5.858	0.001	1.074	36619		1.77(0.87-2.62)	107	2279	
29 PFPeS										
349.10 > 79.90	5.893	5.893	0.0	0.931	21697	0.0427	Target=3.14	90.8	1409	
349.10 > 98.90	5.893	5.893	0.0	0.931	8158		2.66(1.57-4.71)	90.8	536	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.904	5.916	-0.012	0.933	387544	4.49		94.3	25291	
32 6:2FTS										
427.10 > 407.00	5.904	5.916	-0.012	1.000	13772	0.1055	Target=1.62	111	908	
427.10 > 80.90	5.904	5.916	-0.012	1.000	7858		1.75(0.81-2.43)	111	528	
33 BTS										
280.00 > 147.00	6.034	6.034	0.0	0.953	49760	0.0509		104	3301	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.122	-0.012	0.998	1508577	1.91		95.6	71036	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.122	6.122	0.0	1.002	39327	0.0511	Target=2.44	102	1503	
413.00 > 169.00	6.110	6.122	-0.012	1.000	13487		2.92(1.22-3.66)	102	2238	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.122	0.0		3698957	5.00			707607	
39 7:3 FTCA										
441.00 > 316.90	6.194	6.194	0.0	1.175	28506	0.2466	Target=0.91	98.6	1739	
441.00 > 336.90	6.194	6.194	0.0	1.175	32518		0.88(0.45-1.36)	98.6	1968	
D 38 13C3 PFHxS										
402.10 > 79.90	6.331	6.330	0.001	1.000	978039	1.82		96.2	56816	
* 37 18O2 PFHxS										
403.00 > 83.90	6.331	6.330	0.001		988878	1.89			57560	
40 PFHxS										
398.70 > 79.90	6.331	6.343	-0.012	1.000	23260	0.0546	Target=3.16	120	2299	
398.70 > 98.90	6.344	6.343	0.001	1.002	8877		2.62(1.58-4.74)	120	2000	
D 41 13C9 PFNA										
472.10 > 427.00	6.519	6.530	-0.011	1.000	1362327	1.93		96.5	47999	
43 PFNA										M
463.00 > 419.00	6.519	6.530	-0.011	1.000	29620	0.0529	Target=2.70	106	2905	
463.00 > 219.00	6.519	6.530	-0.011	1.000	11803		2.51(1.35-4.05)	106	1924	M
* 42 13C5 PFNA										
468.00 > 423.00	6.519	6.530	-0.011		1379343	2.00			81007	
46 8:2FTS										
527.10 > 507.00	6.706	6.715	-0.009	1.000	9713	0.0974	Target=1.71	102	627	
527.10 > 80.80	6.706	6.715	-0.009	1.000	4466		2.17(0.86-2.57)	102	303	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.706	6.715	-0.009	1.059	343721	4.62		96.2	21395	
44 PFECHS										
461.00 > 381.00	6.728	6.727	0.001	1.063	7092	0.0424	Target=0.29	91.7	428	
461.00 > 99.00	6.728	6.727	0.001	1.063	27168		0.26(0.14-0.43)	91.7	1729	
47 PFHpS										
449.00 > 79.90	6.763	6.773	-0.010	0.941	23281	0.0431	Target=3.62	90.4	1374	
449.00 > 98.80	6.751	6.773	-0.022	0.939	6587		3.53(1.81-5.43)	90.4	401	
48 FHxSA										
397.90 > 78.00	6.786	6.784	0.002	1.072	30955	0.0495		99.0	1759	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.870	6.880	-0.010	0.956	750049	4.31		86.2	43385	
50 NMeFOSAA										M
570.10 > 419.00	6.870	6.880	-0.010	1.000	7222	0.0479	Target=1.87	95.9	1669	M
570.10 > 483.00	6.895	6.880	0.015	1.004	3438		2.10(0.93-2.80)	95.9	529	M
53 PFDA										
512.90 > 469.00	6.933	6.931	0.002	1.000	26652	0.0481	Target=5.46	96.2	1491	
512.90 > 219.00	6.933	6.931	0.002	1.000	4764		5.59(2.73-8.19)	96.2	270	
* 52 13C2 PFDA										
515.10 > 470.10	6.933	6.931	0.002		1273240	2.00			53721	
D 51 13C6 PFDA										
519.10 > 474.10	6.933	6.931	0.002	1.000	1286277	1.92		95.8	54390	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.056	7.053	0.003	0.981	701690	4.92		98.3	37594	
55 NEtFOSAA										M
584.20 > 419.10	7.070	7.067	0.003	1.002	4583	0.0480	Target=1.40	96.0	807	M
584.20 > 526.00	7.070	7.067	0.003	1.002	3662		1.25(0.70-2.10)	96.0	612	M
D 56 13C8 PFOS										
507.10 > 79.90	7.189	7.186	0.003	1.000	970717	1.90		99.3	33852	
* 57 13C4 PFOS										
502.80 > 79.90	7.189	7.186	0.003		954922	1.91			55460	
58 PFOS										
498.90 > 79.90	7.189	7.198	-0.009	1.000	31923	0.0494	Target=4.24	106	5685	
498.90 > 98.80	7.201	7.198	0.003	1.002	7887		4.05(2.12-6.36)	106	1840	
D 59 13C7 PFUnA										
570.00 > 525.10	7.345	7.353	-0.008	1.059	1323736	2.11		106	84357	
60 PFUnA										
563.10 > 519.00	7.345	7.353	-0.008	1.000	29583	0.0556	Target=5.76	111	1888	
563.10 > 269.10	7.345	7.353	-0.008	1.000	5628		5.26(2.88-8.63)	111	371	
61 9ClFOS										
530.80 > 351.00	7.517	7.514	0.002	1.378	40435	0.0493	Target=3.18	106	2841	
532.80 > 353.00	7.507	7.514	-0.007	1.376	11974		3.38(1.59-4.77)	106	821	
62 PFNS										
548.80 > 79.90	7.609	7.607	0.002	1.058	20803	0.0471	Target=3.81	97.9	1500	
548.80 > 98.80	7.609	7.607	0.002	1.058	5930		3.51(1.90-5.71)	97.9	445	
D 82 PFDoA										
615.10 > 570.00	7.754	7.762	-0.008	1.118	1059076	2.01		100	72459	
63 PFDoA										
613.10 > 569.00	7.754	7.762	-0.008	1.000	25740	0.0519	Target=6.16	104	1781	
613.10 > 319.00	7.764	7.762	0.002	1.001	4287		6.00(3.08-9.25)	104	304	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	7.997	-0.006	1.112	1120687	1.84		92.0	53297	
66 PFDS										
599.00 > 79.90	8.002	7.997	0.005	1.113	21322	0.0452	Target=3.75	93.7	1430	
599.00 > 98.80	8.002	7.997	0.005	1.113	6656		3.20(1.87-5.62)	93.7	435	
65 PFOSA										M
498.10 > 77.90	7.991	7.997	-0.006	1.000	26123	0.0517	Target=46.29	103	5069	M
498.10 > 478.00	7.991	7.997	-0.006	1.000	402		64.98(23.15-69.44)	103	98.0	M
67 PFTrDA										
663.00 > 619.00	8.131	8.139	-0.008	0.959	27065	0.0510	Target=5.80	102	1559	
663.00 > 168.90	8.142	8.139	0.003	0.960	4059		6.67(2.90-8.70)	102	243	
68 11ClFOS										
630.90 > 450.90	8.277	8.285	-0.008	1.517	37566	0.0486	Target=3.09	103	2055	
632.90 > 452.90	8.277	8.285	-0.008	1.517	11847		3.17(1.55-4.64)	103	657	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.478	8.486	-0.008	1.223	795876	2.14		107	42108	
70 PFTeDA										M
713.10 > 168.90	8.478	8.486	-0.008	1.000	3173	0.0455	Target=1.18	91.0	171	M
713.10 > 219.00	8.478	8.486	-0.008	1.000	2585		1.23(0.59-1.77)	91.0	139	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.641	8.650	-0.009	1.202	22340	0.0429	Target=4.45	88.5	1175	
699.10 > 98.80	8.641	8.650	-0.009	1.202	4505		4.96(2.23-6.68)	88.5	241	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.781	-0.007	1.220	434623	4.59		91.7	10011	
72 N-MeFOSE-M										M
616.10 > 58.90	8.788	8.811	-0.023	1.002	40534	0.2532		101	156	M
D 74 d3-NMePFOSA										
515.00 > 219.00	8.861	8.868	-0.007	1.233	276696	1.73		86.5	11516	
75 NMeFOSA										
511.90 > 219.00	8.875	8.882	-0.007	1.002	8056	0.0560	Target=0.73	112	2333	
511.90 > 169.00	8.875	8.882	-0.007	1.002	11696		0.69(0.36-1.09)	112	2711	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.943	8.962	-0.019	1.244	583390	4.73		94.6	14895	
77 N-EtFOSE-M										M
630.00 > 58.90	8.969	8.975	-0.006	1.003	51307	0.2410		96.4	495	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.008	9.027	-0.019	1.253	327577	1.82		90.8	15006	
79 N-EtFOSA-M										
526.00 > 219.00	9.021	9.040	-0.019	1.001	9099	0.0518	Target=0.82	104	73.2	
526.00 > 169.00	9.021	9.040	-0.019	1.001	11332		0.80(0.41-1.22)	104	62.6	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.168	9.174	-0.006	1.081	54088	0.0534	Target=14.83	107	3635	
913.00 > 169.00	9.168	9.174	-0.006	1.081	3338		16.20(7.41-22.24)	107	232	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL1_00030 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:37:52 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-05.d

Injection Date: 12-Feb-2025 12:45:23 Instrument ID: 30576

Lims ID: IC CAL 1

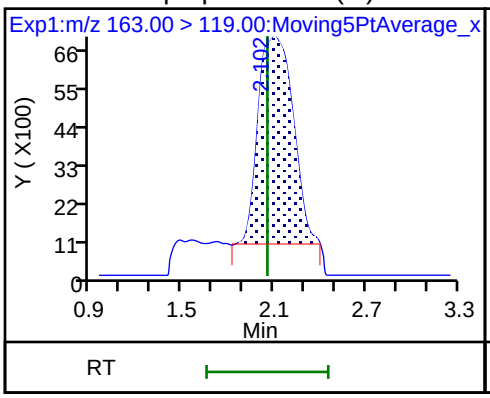
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1

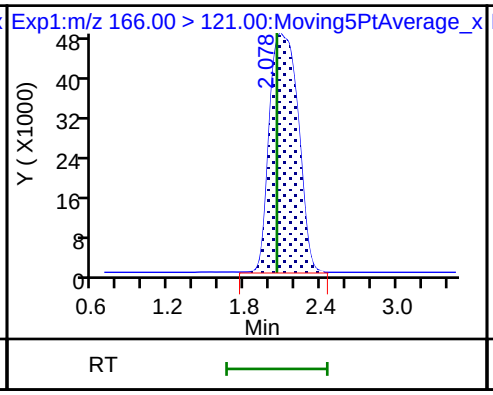
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

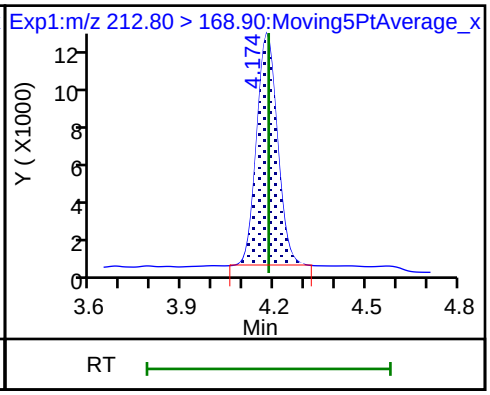
2 Perfluoropropionic acid (M)



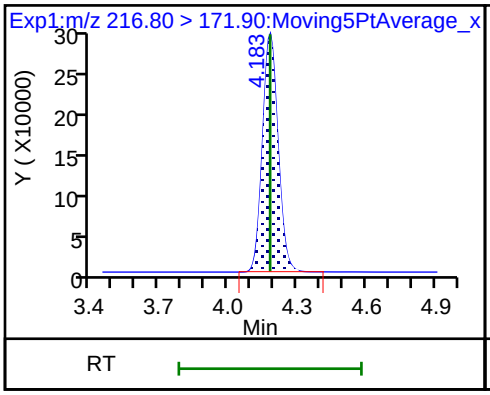
D 1 13C3PFPrA



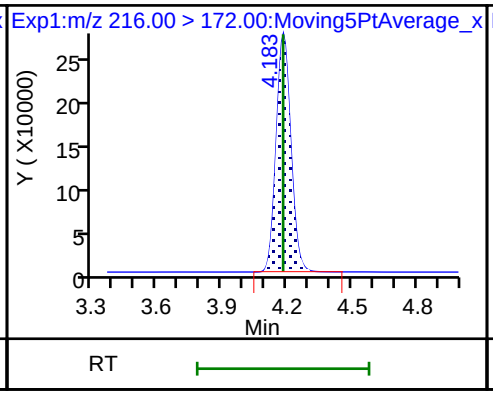
5 PFBA



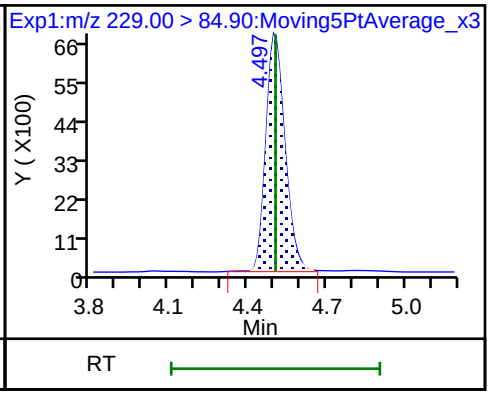
D 3 13C4-PFBA



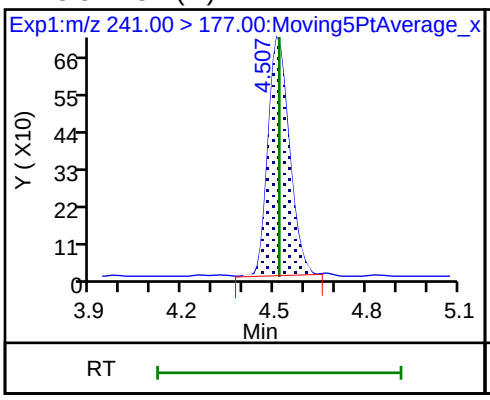
* 4 13C3PFBA



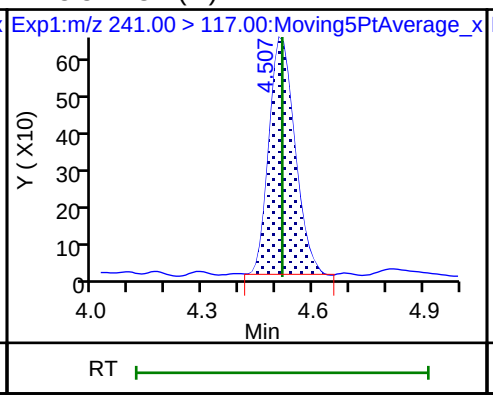
6 PFMPA



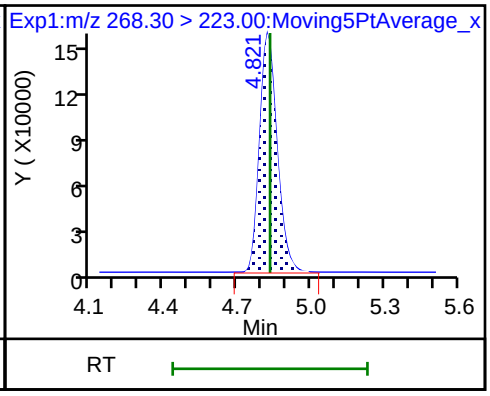
7 3:3 FTCA (M)



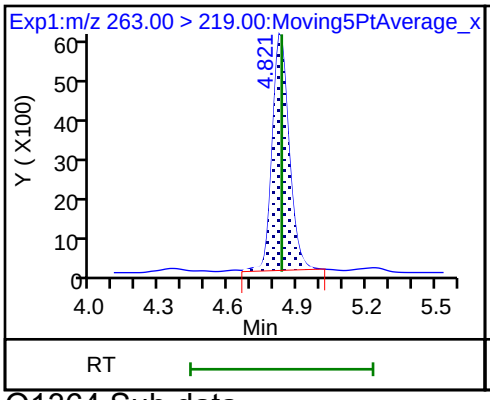
7 3:3 FTCA (M)



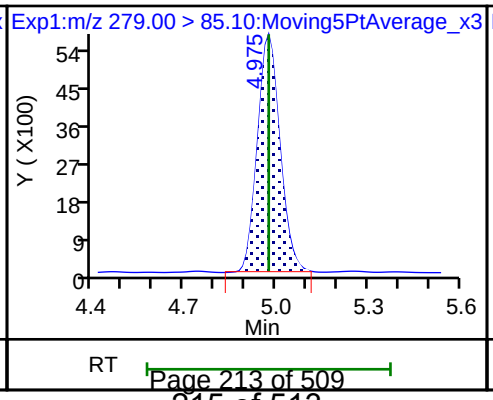
D 8 13C5 PFPeA



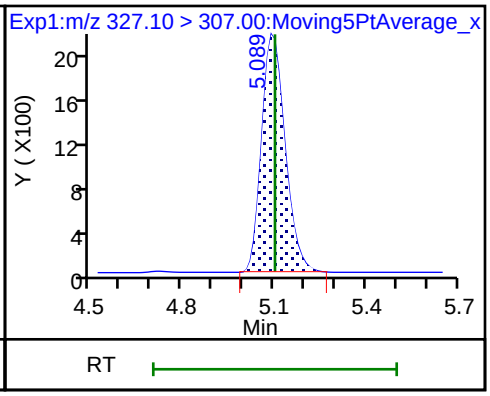
9 PFPA



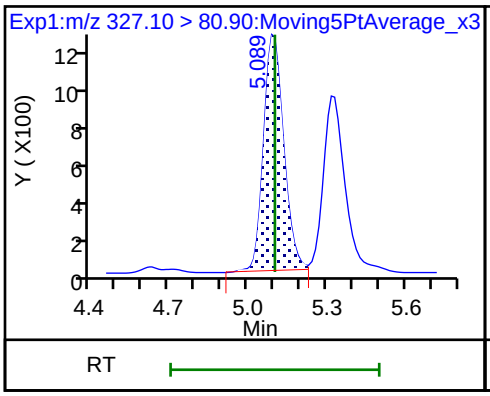
10 PFMBA



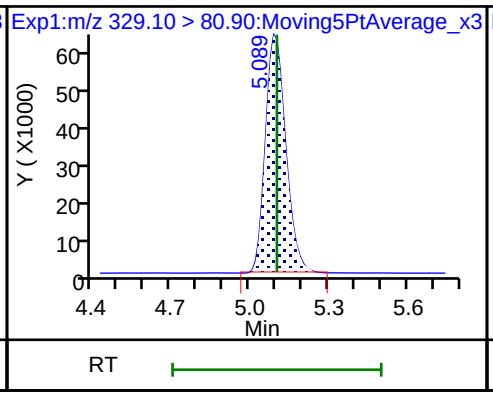
12 4:2FTS



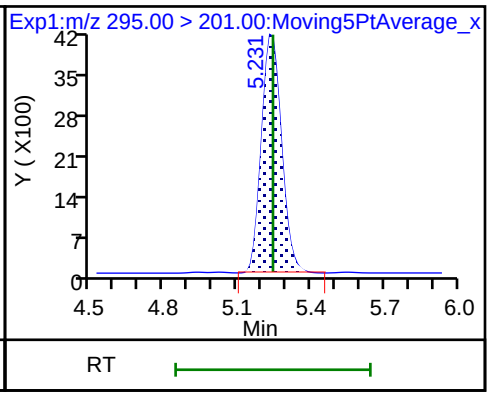
12 4:2FTS



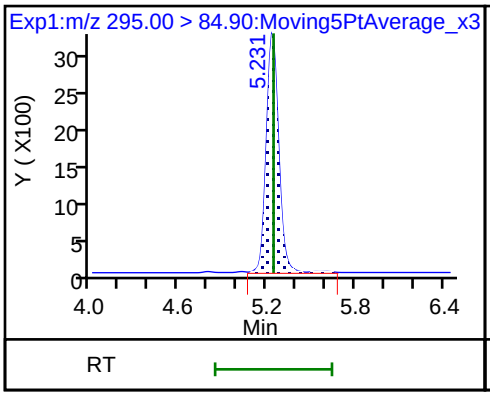
D 11 13C2-4:2FTS



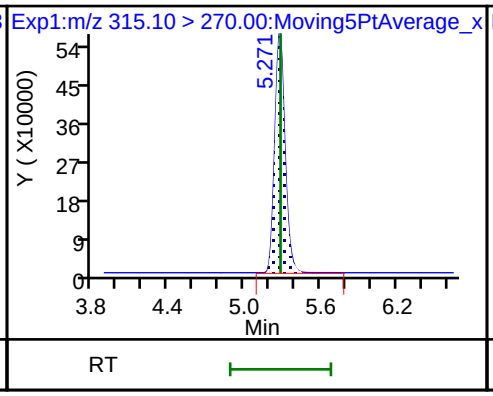
14 NFDHA



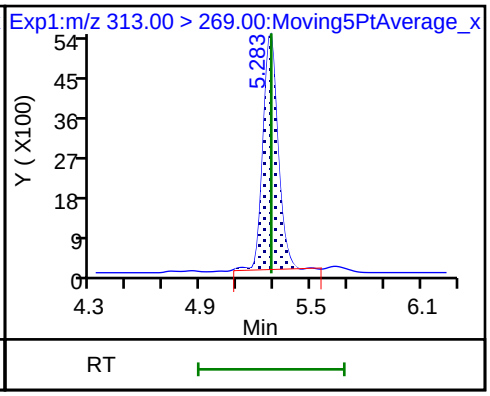
14 NFDHA



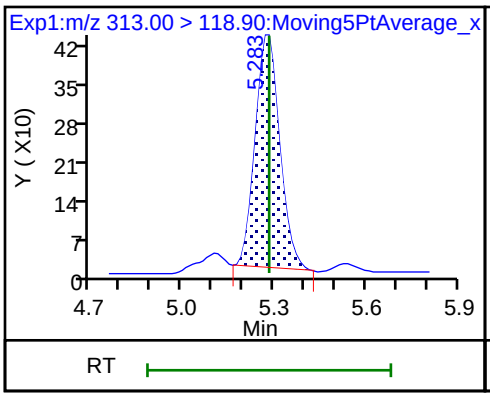
* 16 13C2 PFHxA



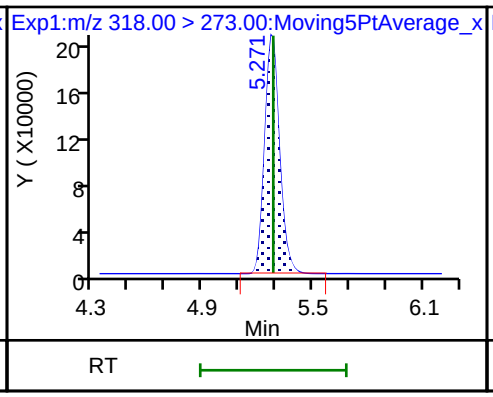
17 PFHxA



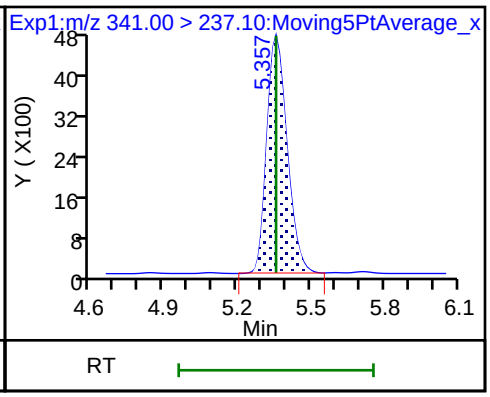
17 PFHxA



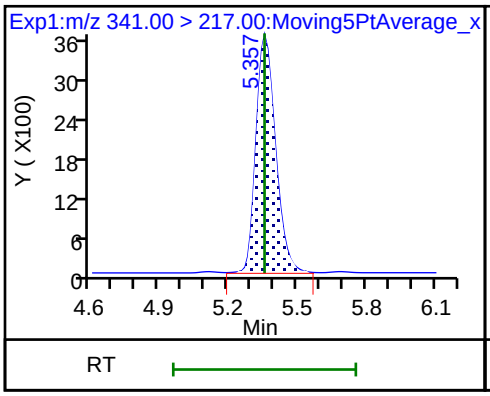
D 15 13C5 PFHxA



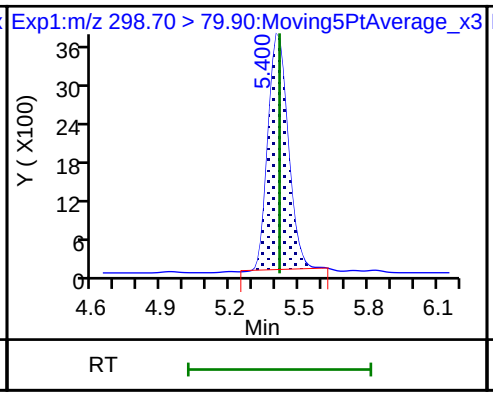
20 5:3 FTCA



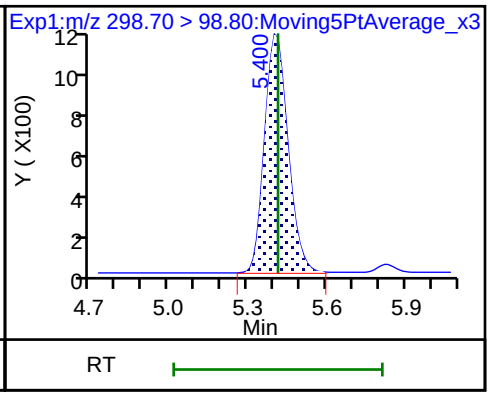
20 5:3 FTCA



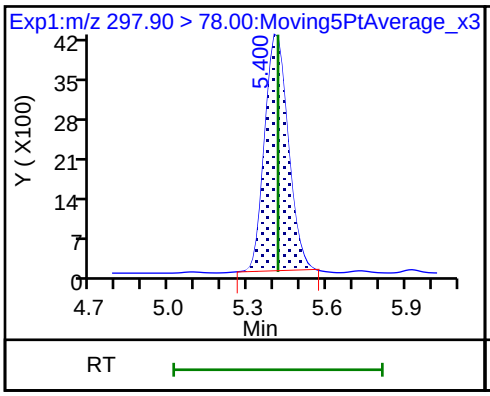
19 PFBS



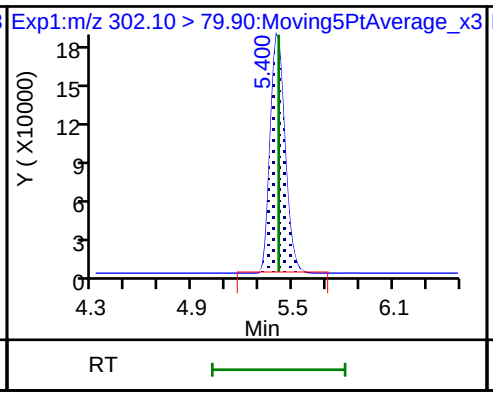
19 PFBS



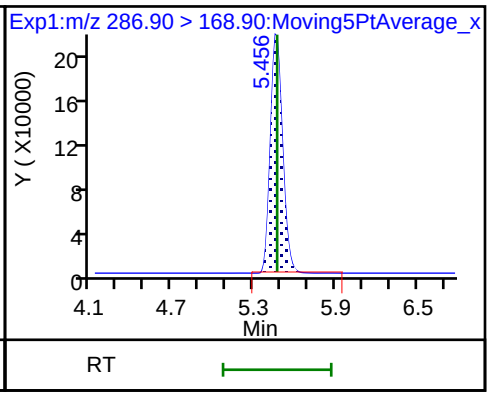
25 FBSA



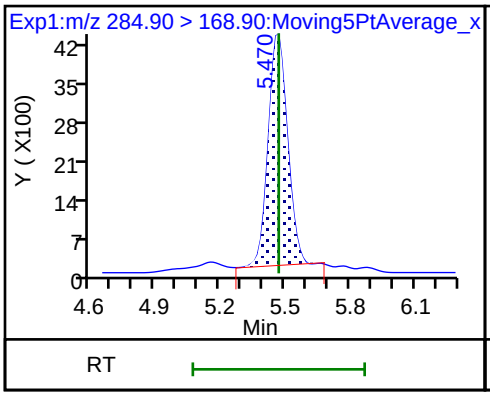
D 18 13C3 PFBS



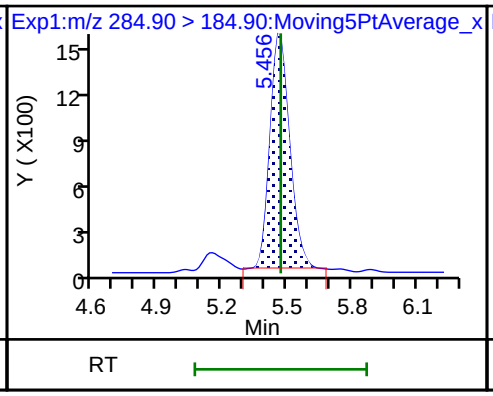
D 21 13C3 HFPO-DA



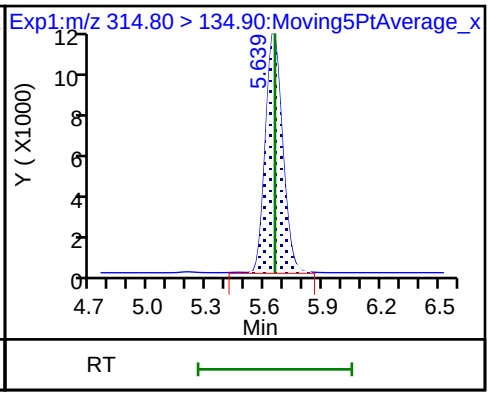
22 HFPO-DA



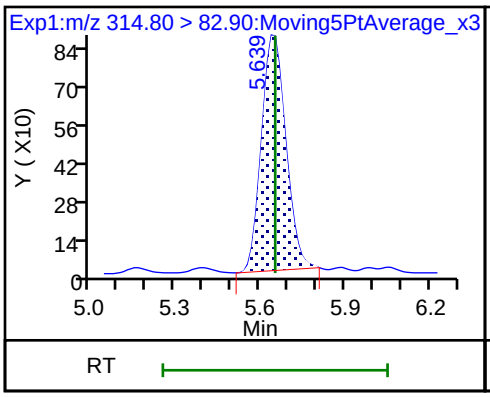
22 HFPO-DA



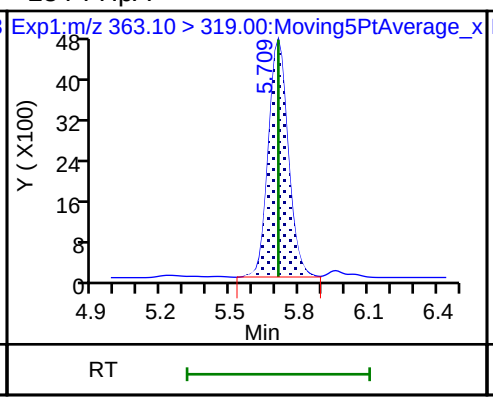
24 PFEESA



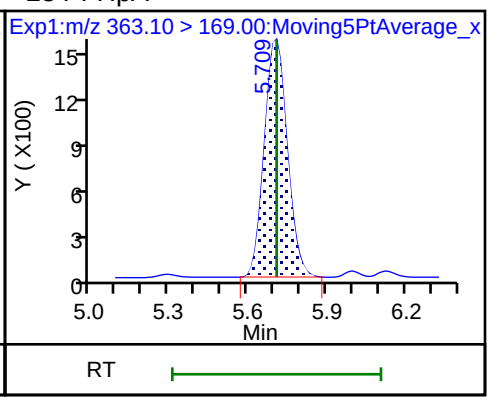
24 PFEESA



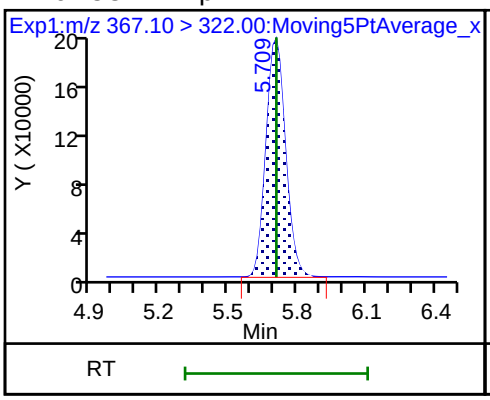
28 PFHpA



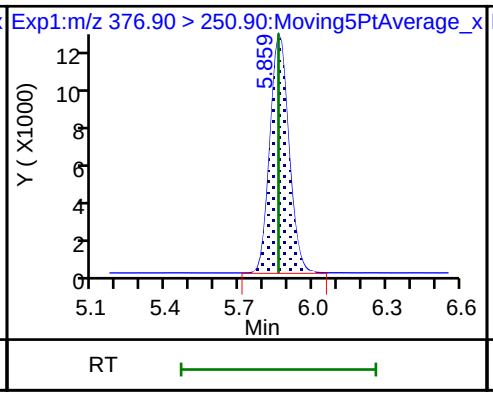
28 PFHpA



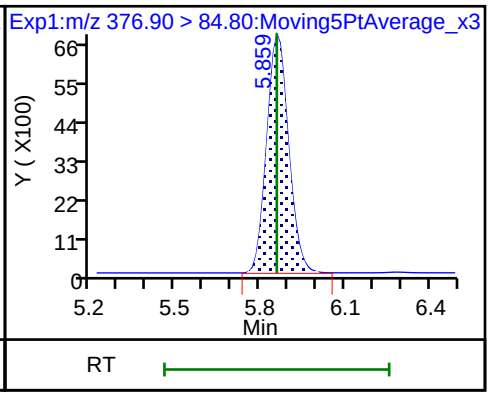
D 26 13C4 PFHpA



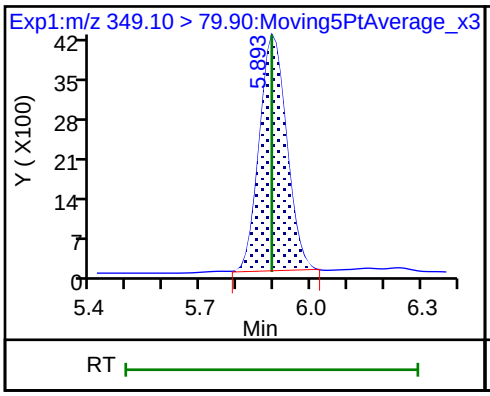
30 ADONA



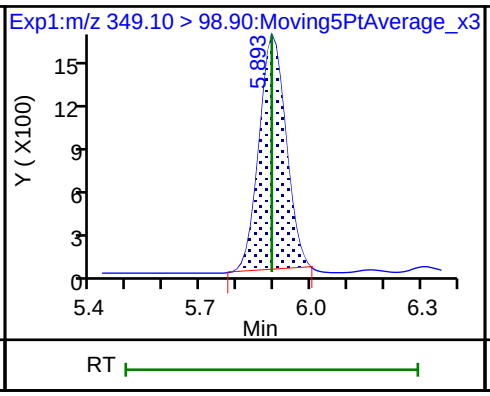
30 ADONA



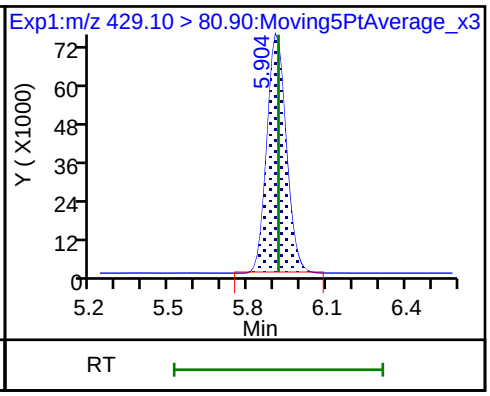
29 PFPeS



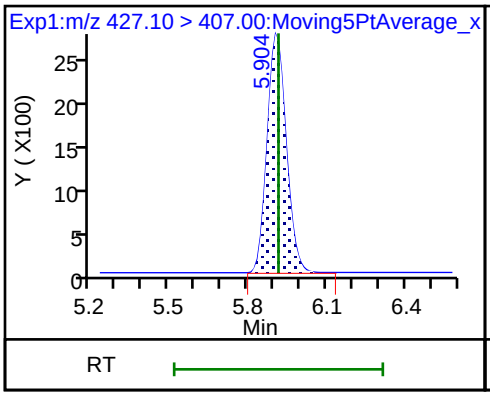
29 PFPeS



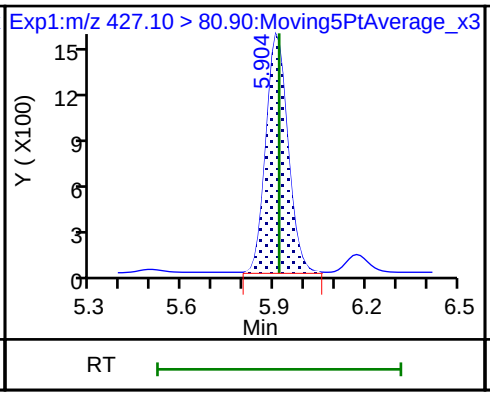
D 31 13C2-6:2FTS



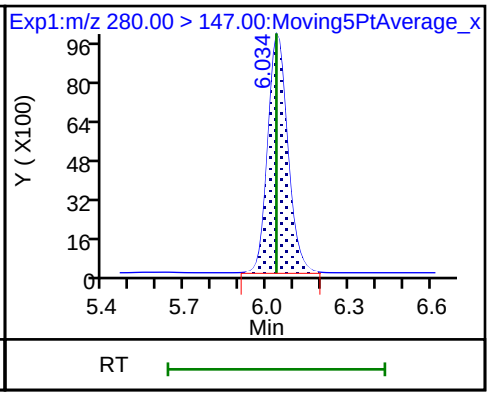
32 6:2FTS



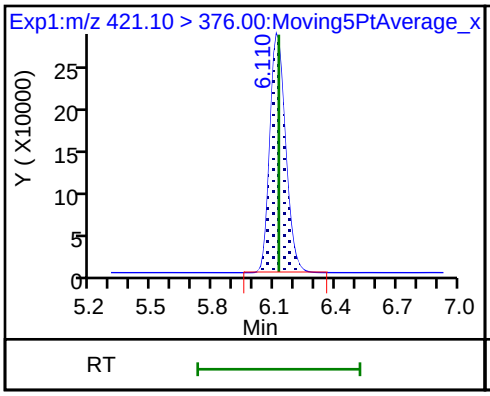
32 6:2FTS



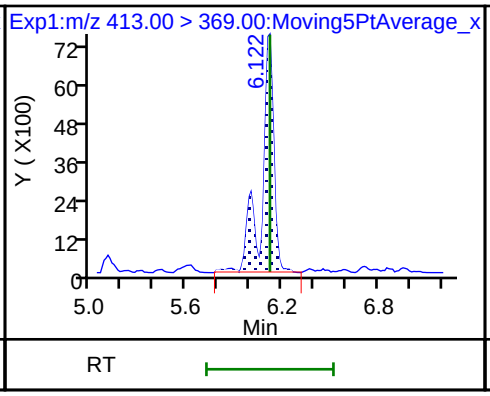
33 BTS



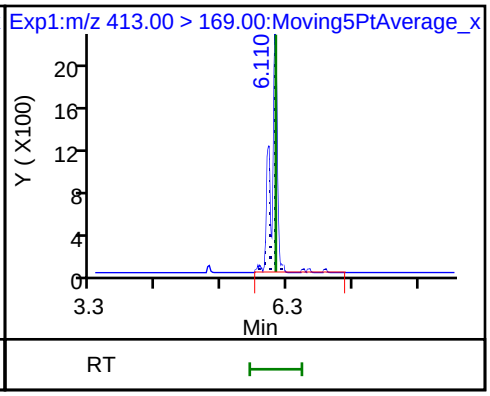
D 34 13C8 PFOA



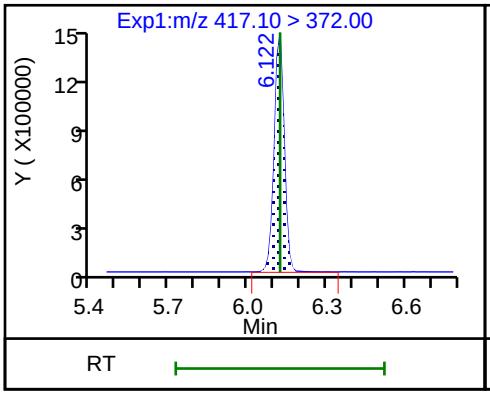
36 PFOA



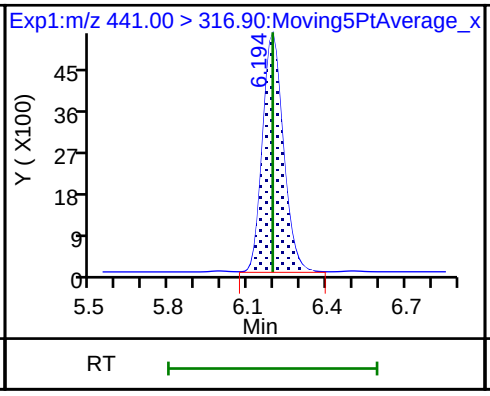
36 PFOA



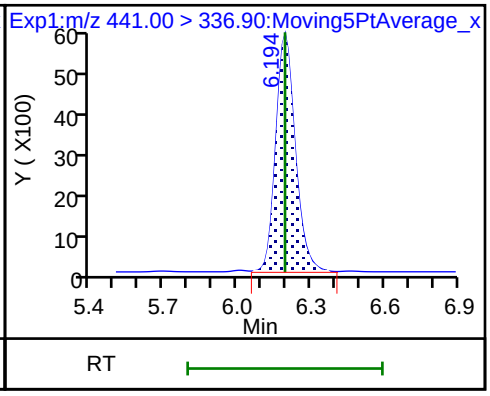
* 35 13C4 PFOA



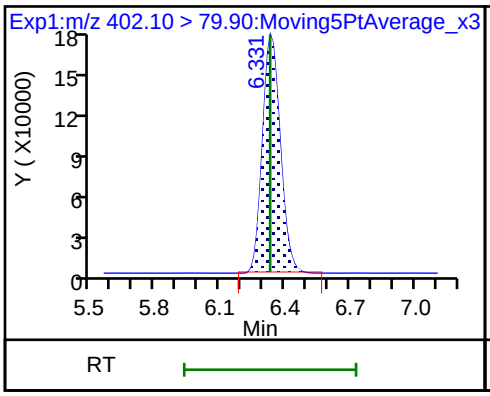
39 7:3 FTCA



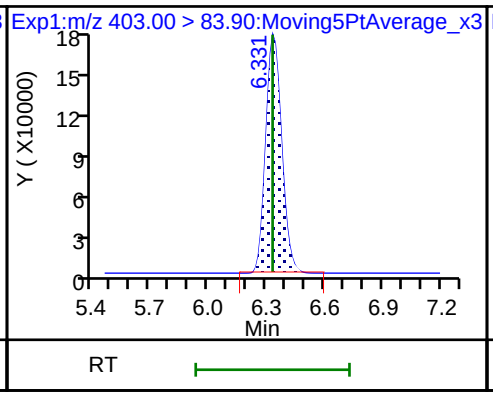
39 7:3 FTCA



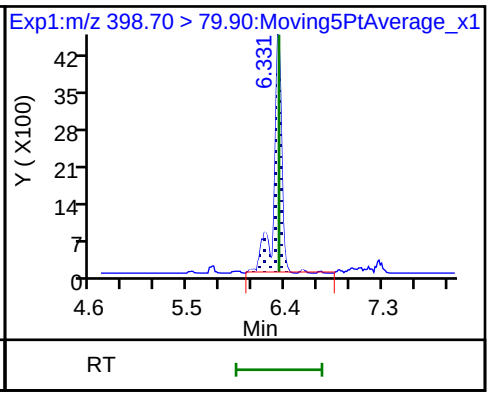
D 38 13C3 PFHxS



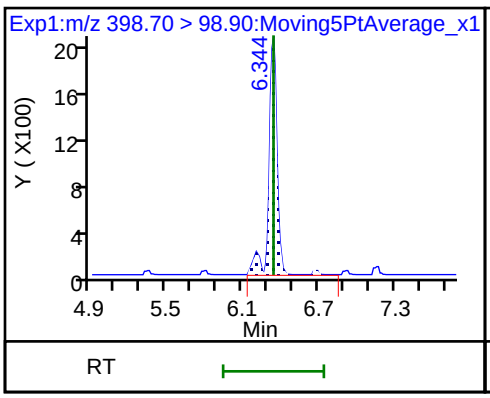
* 37 18O2 PFHxS



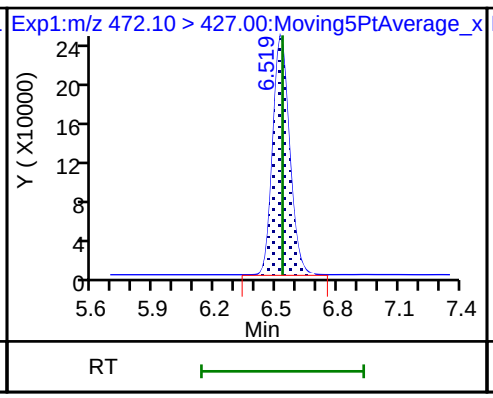
40 PFHxS



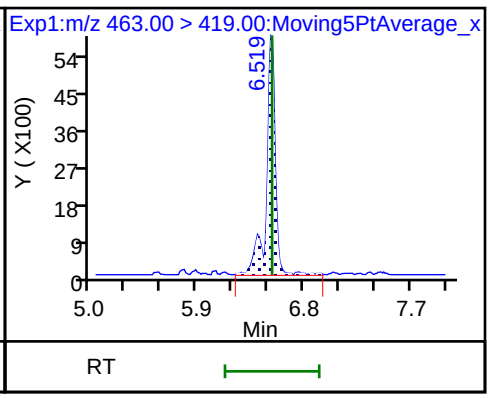
40 PFHxS



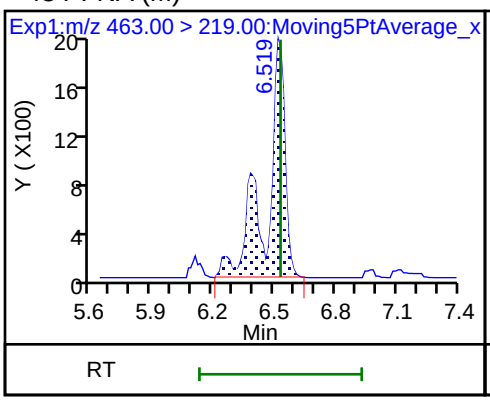
D 41 13C9 PFNA



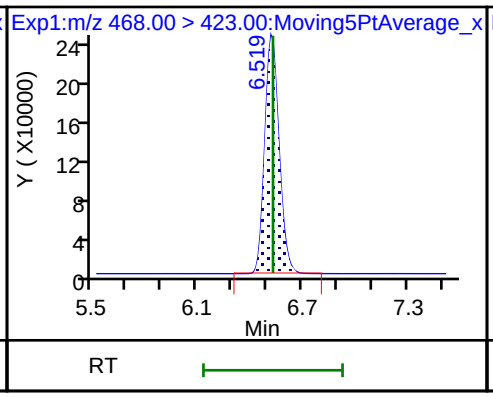
43 PFNA



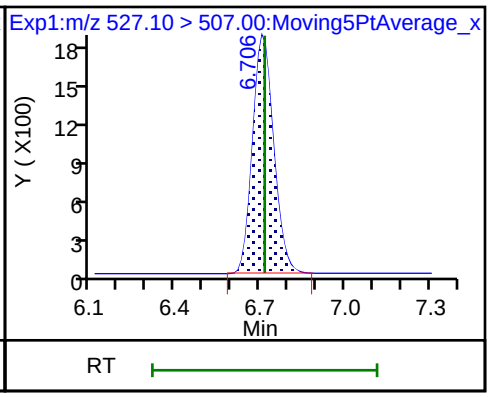
43 PFNA (M)



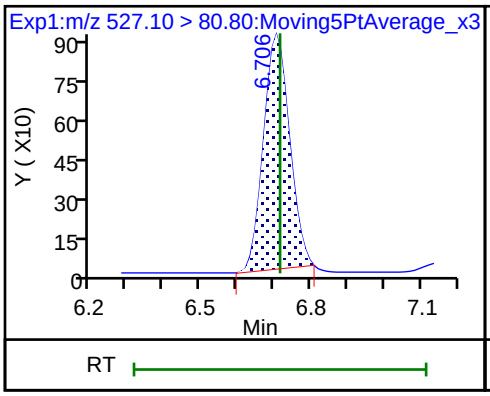
* 42 13C5 PFNA



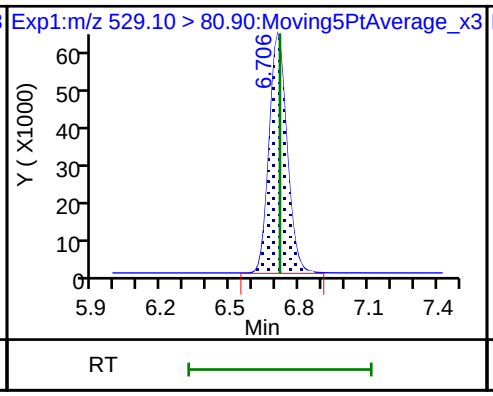
46 8:2FTS



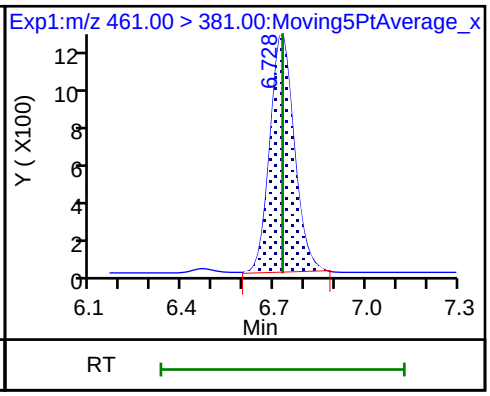
46 8:2FTS



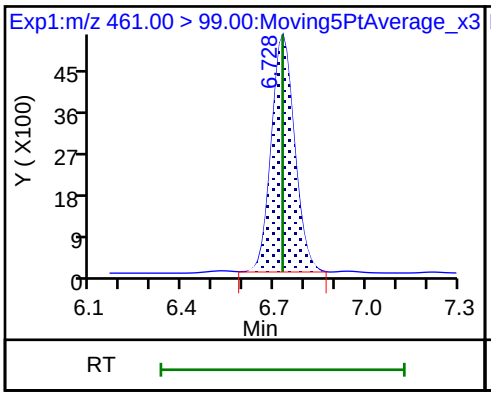
D 45 13C2-8:2FTS



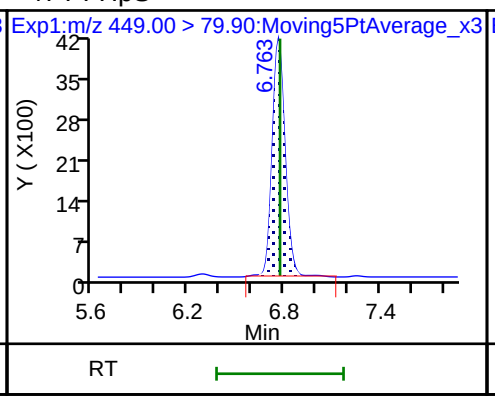
44 PFECHS



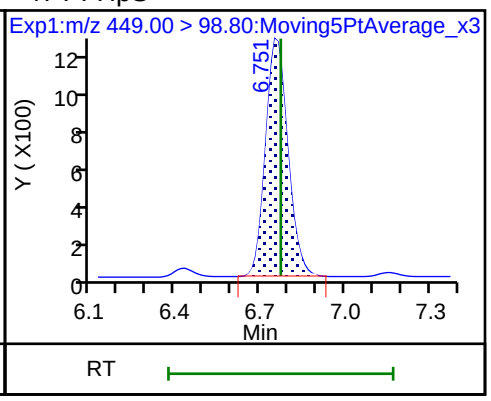
44 PFECHS



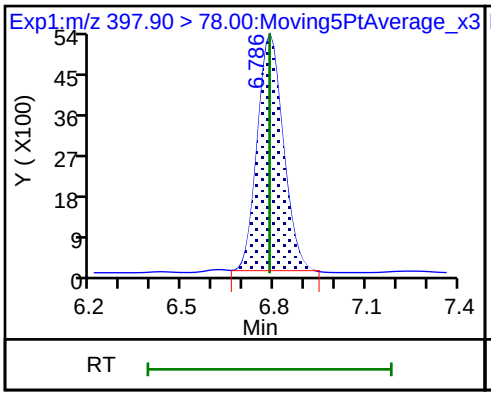
47 PFHpS



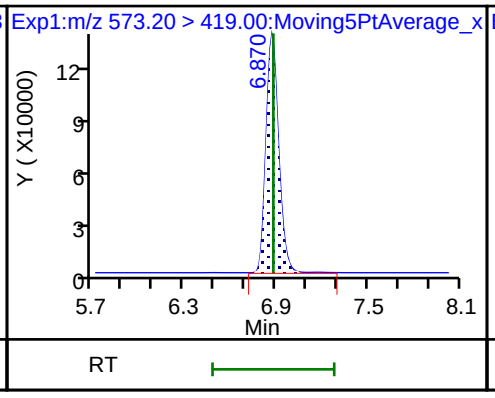
47 PFHpS



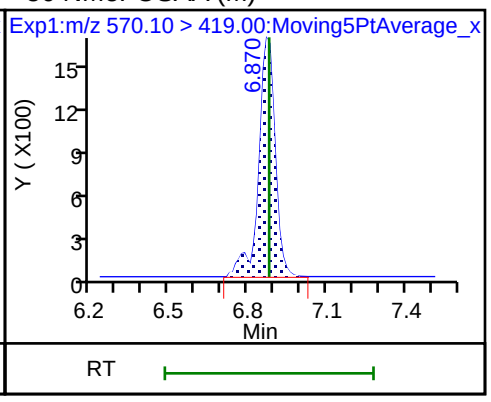
48 FHxSA



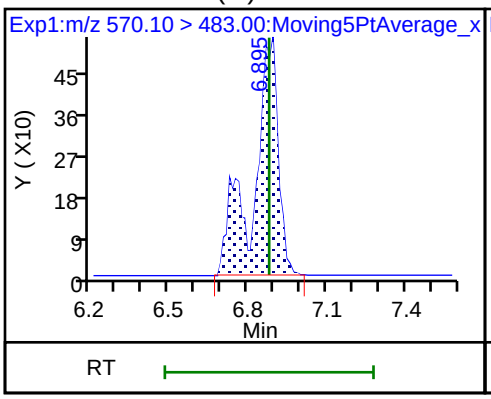
D 49 d3-NMeFOSAA



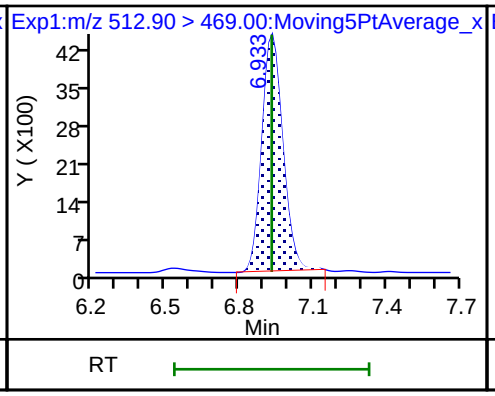
50 NMeFOSAA (M)



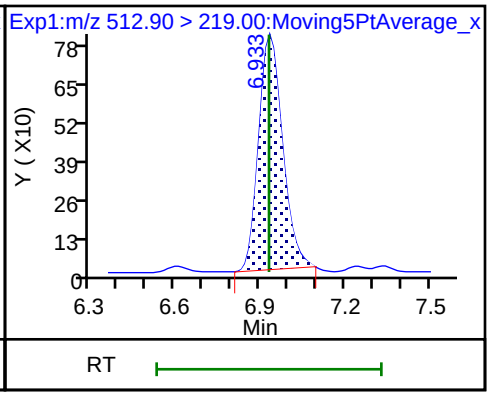
50 NMeFOSAA (M)



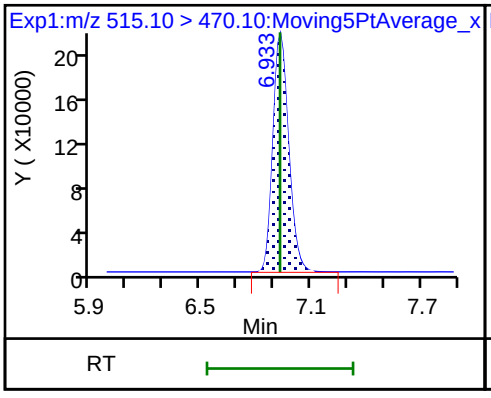
53 PFDA



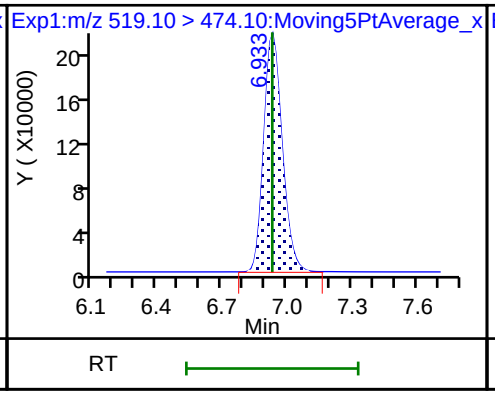
53 PFDA



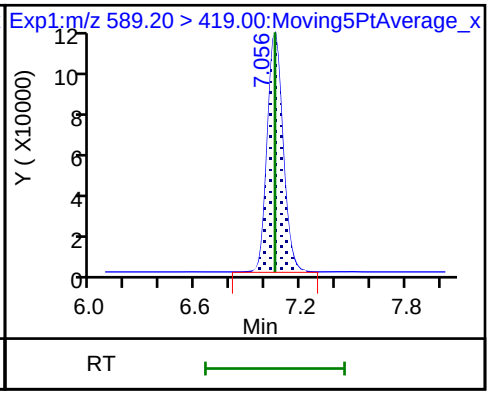
* 52 13C2 PFDA



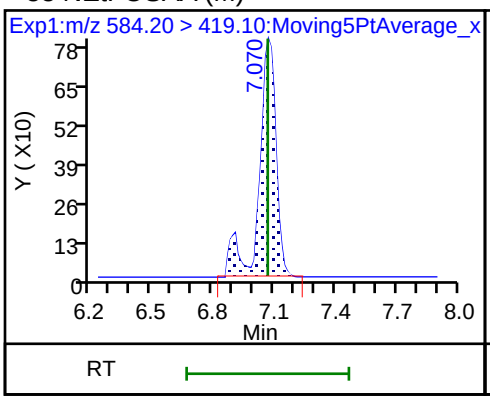
D 51 13C6 PFDA



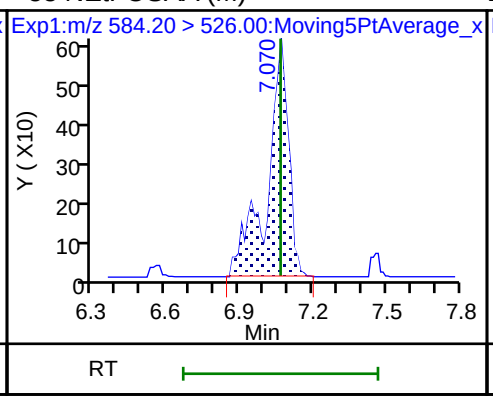
D 54 d5-NEtFOSAA



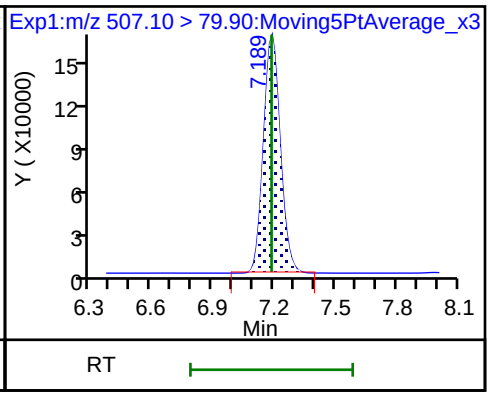
55 NEtFOSAA (M)



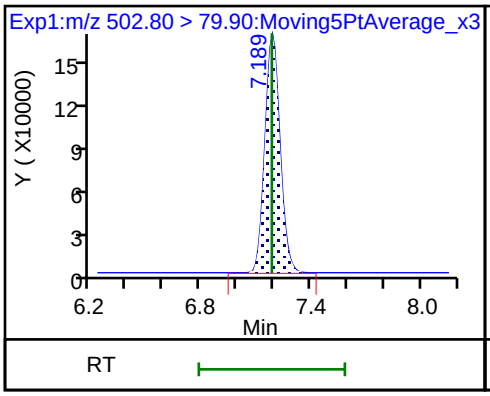
55 NEtFOSAA (M)



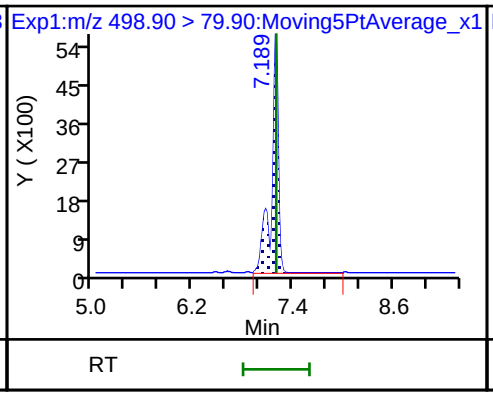
D 56 13C8 PFOS



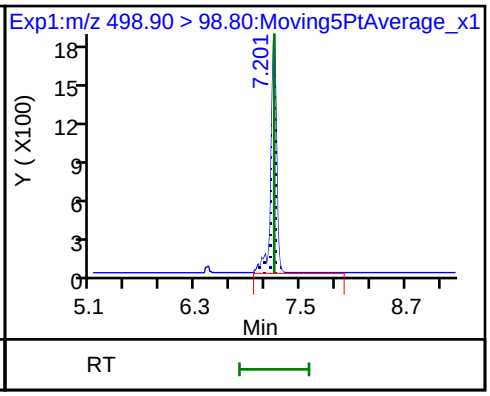
* 57 13C4 PFOS



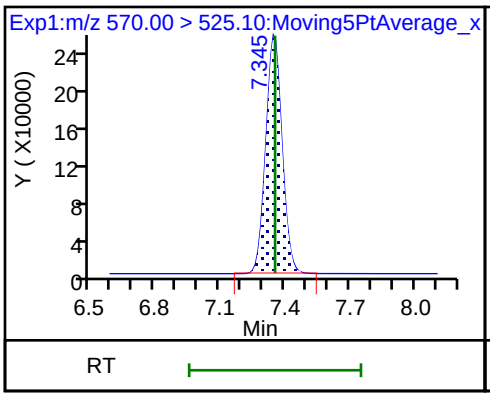
58 PFOS



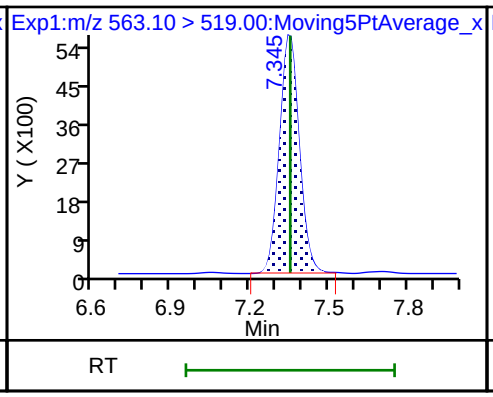
58 PFOS



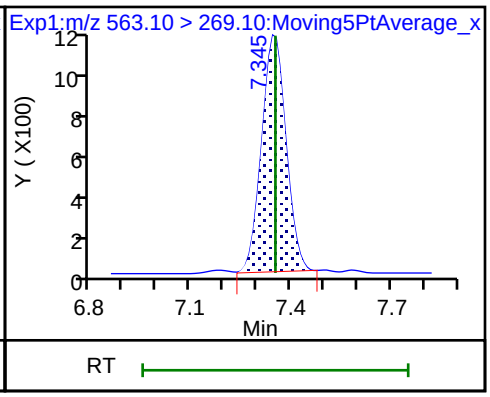
D 59 13C7 PFUnA



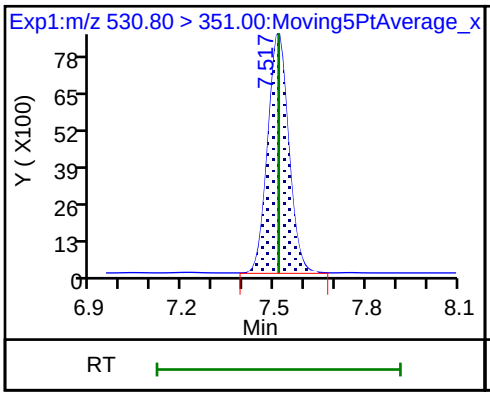
60 PFUnA



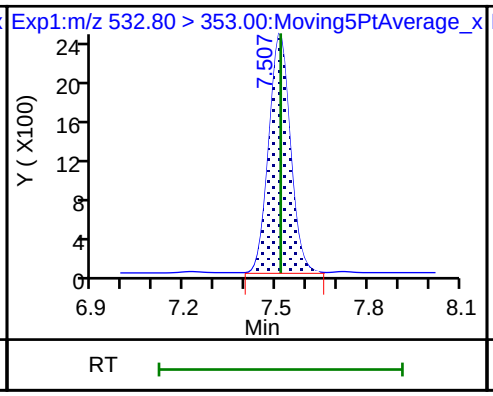
60 PFUnA



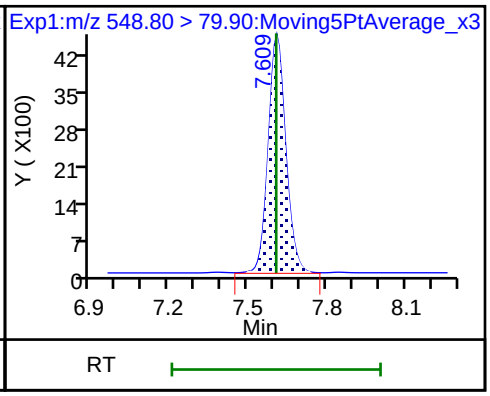
61 9ClFOS



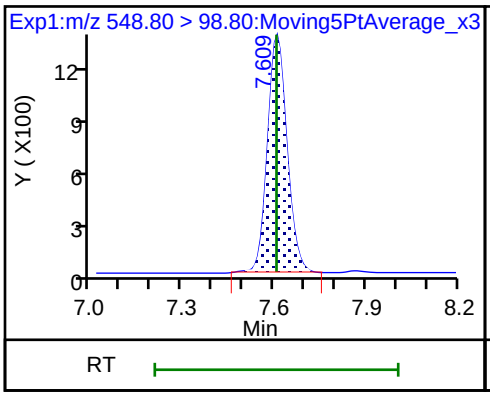
61 9ClFOS



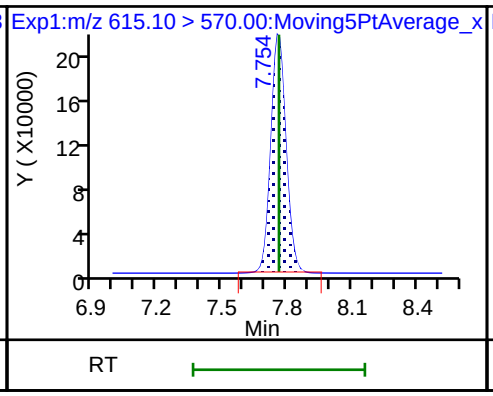
62 PFNS



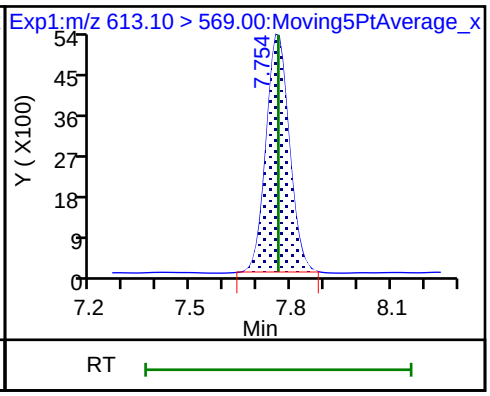
62 PFNS



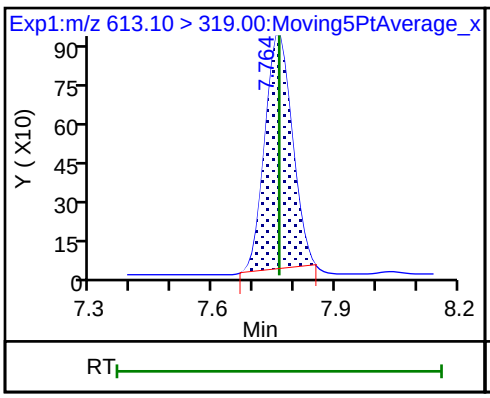
D 82 PFDoA



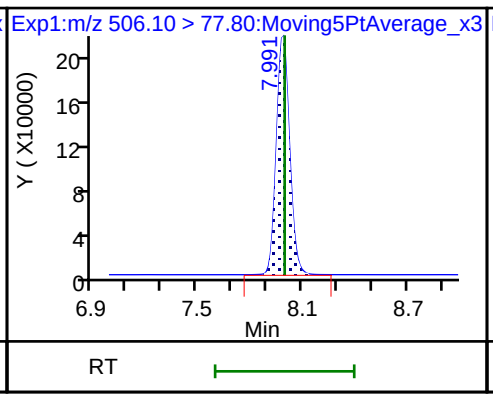
63 PFDoA



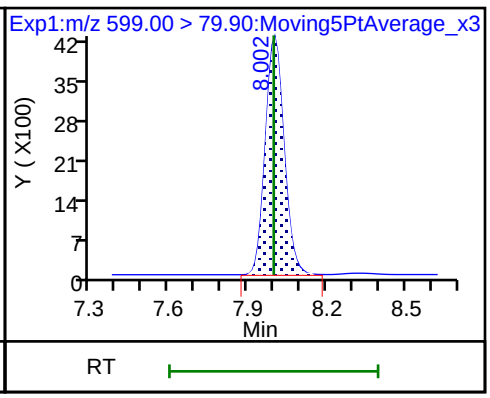
63 PFDoA



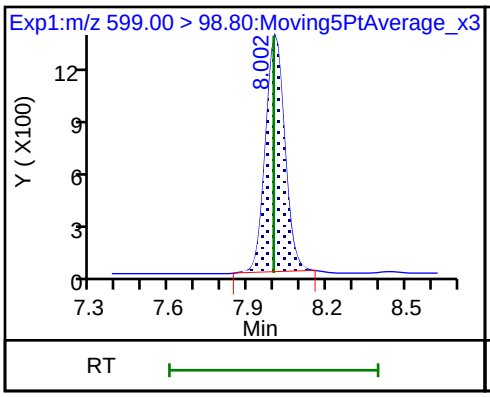
D 64 13C8 FOSA



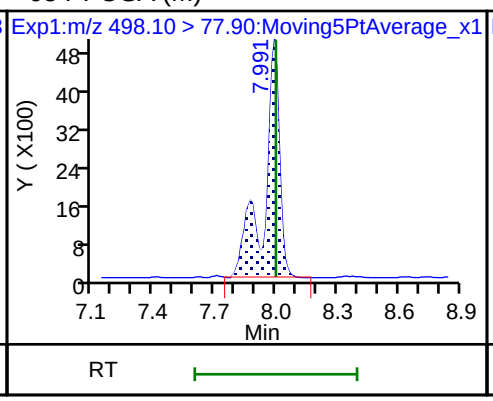
66 PFDS



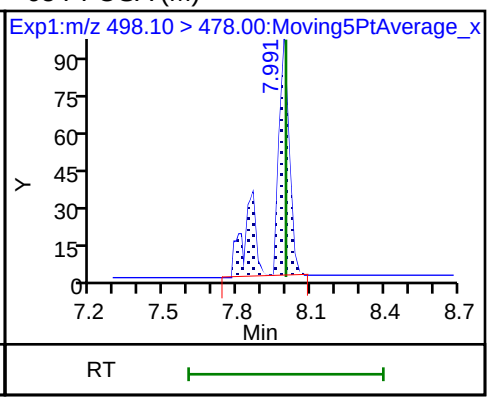
66 PFDS



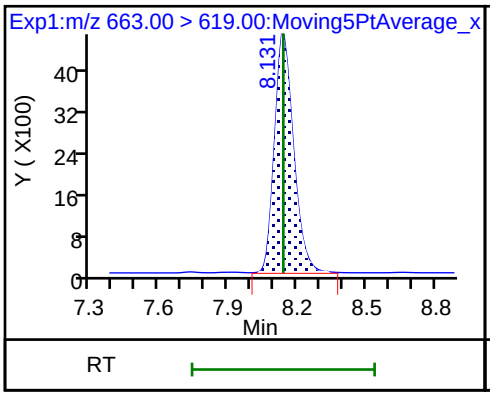
65 PFOSA (M)



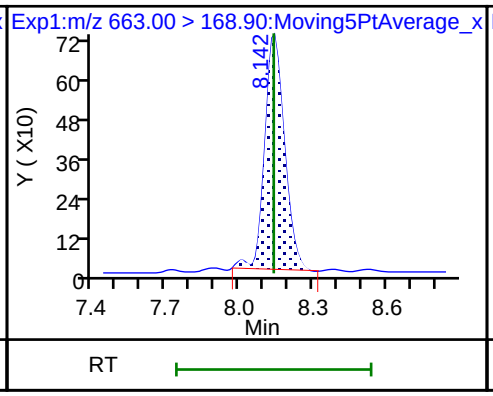
65 PFOSA (M)



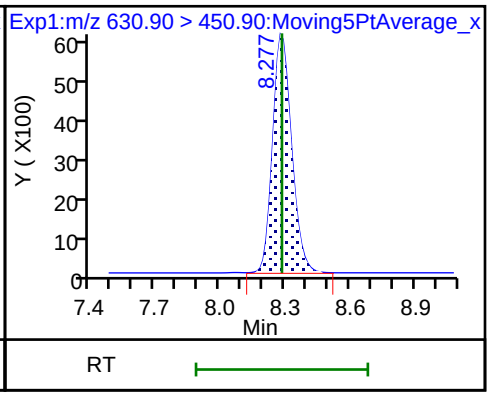
67 PFTrDA



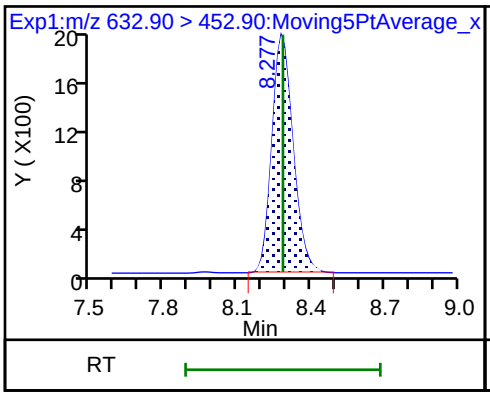
67 PFTrDA



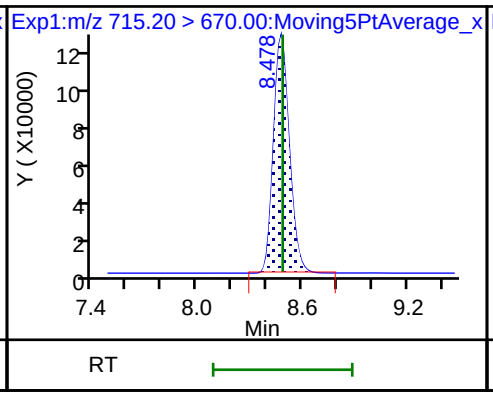
68 11ClFOS



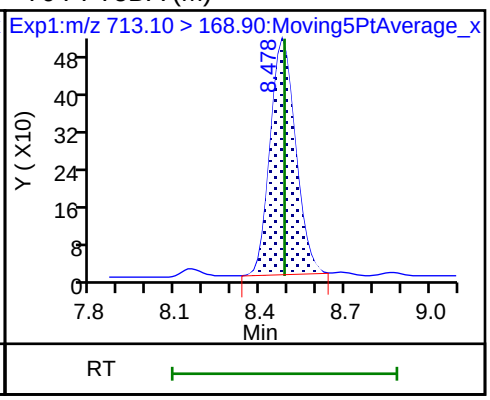
68 11ClFOS



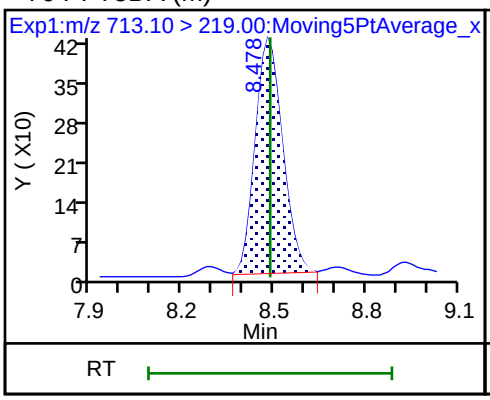
D 69 13C2 PFTeDA



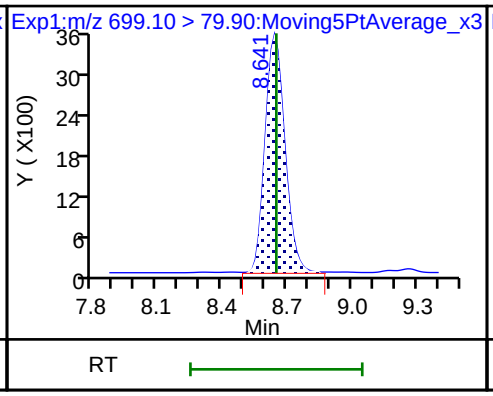
70 PFTeDA (M)



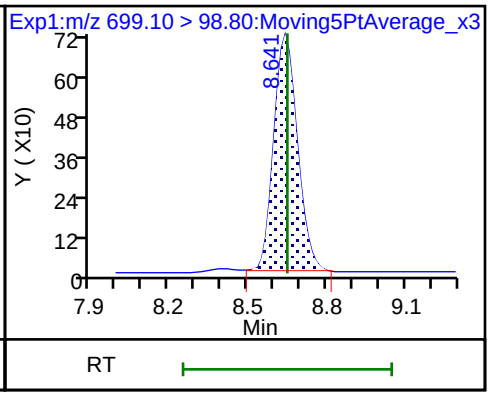
70 PFTeDA (M)



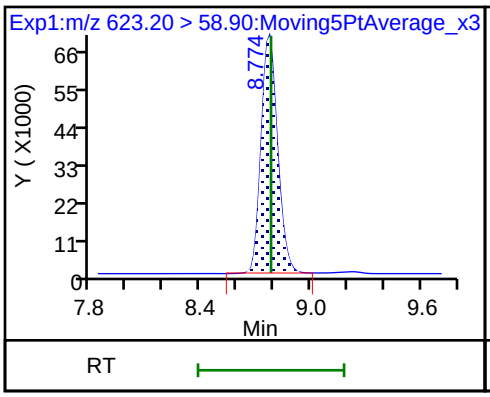
73 PFDoS



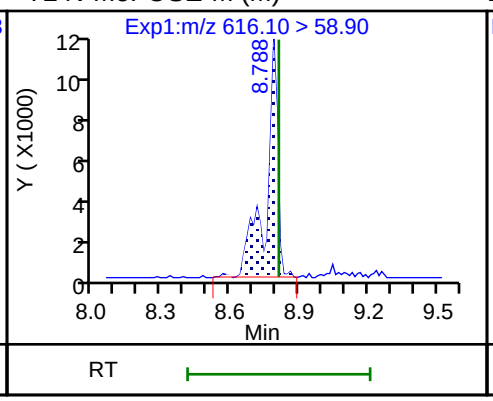
73 PFDoS



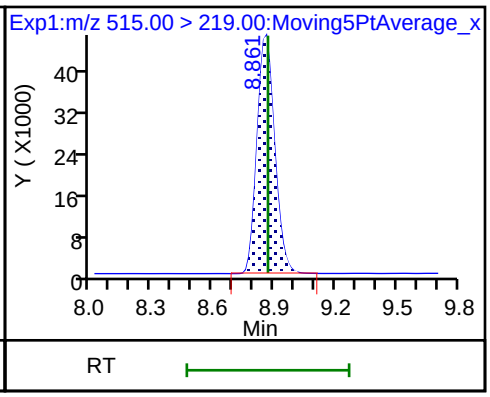
D 71 d7-N-Me-FOSE



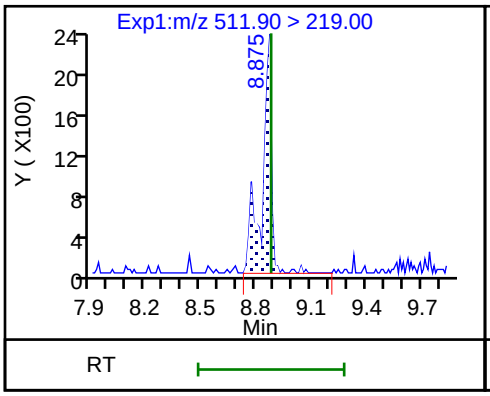
72 N-MeFOSE-M (M)



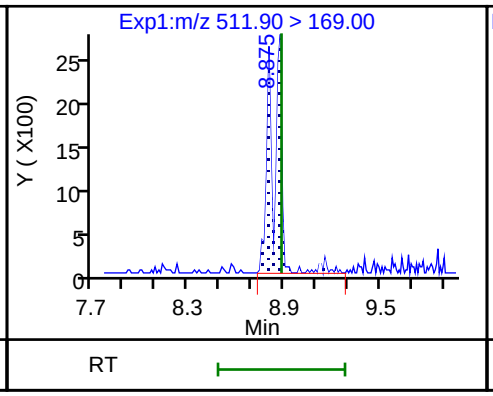
D 74 d3-NMePFOSA



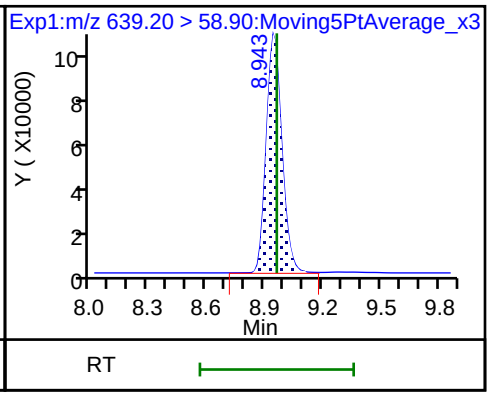
75 NMeFOSA



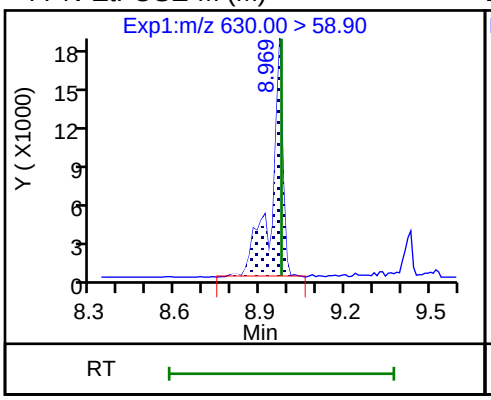
75 NMeFOSA



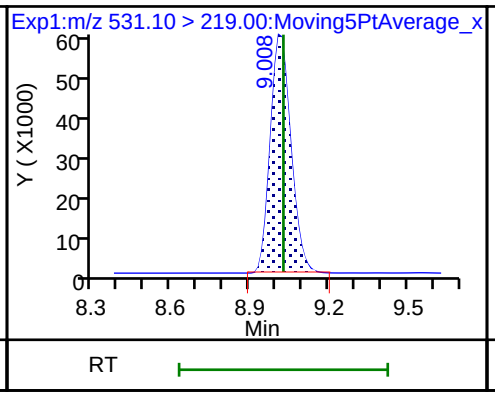
D 76 d9-N-EtFOSE



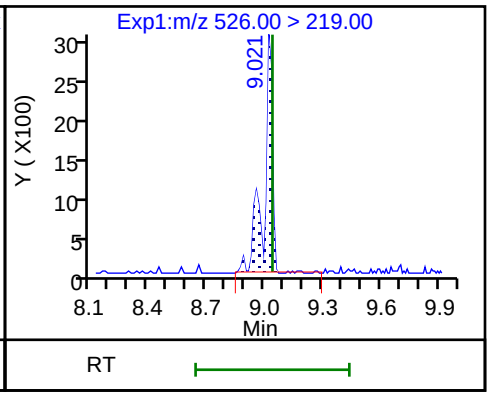
77 N-EtFOSE-M (M)



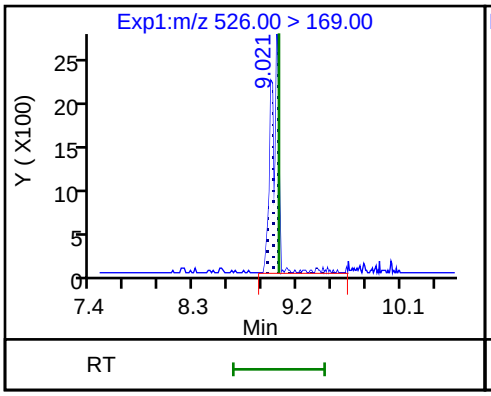
D 78 d5-NEtPFOSA



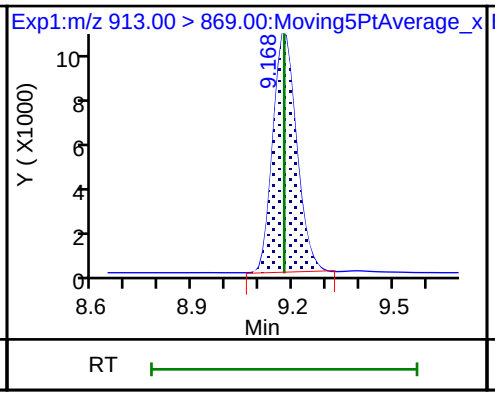
79 N-EtFOSA-M



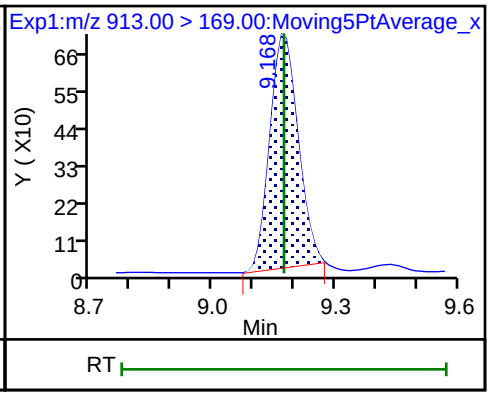
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-06.d
Lims ID: IC CAL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Feb-2025 12:59:00 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL2
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:38:06 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:39:12
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.126	2.054	0.072	0.996	241557	0.6389		102	995	
D 1 13C3PFPrA										
166.00 > 121.00	2.134	2.054	0.080	0.509	780316	1.96		97.8	16544	
5 PFBA										
212.80 > 168.90	4.190	4.181	0.009	1.000	144422	0.2452		98.1	1940	
D 3 13C4-PFBA										
216.80 > 171.90	4.190	4.181	0.009	1.000	1335839	2.00		100	71806	
* 4 13C3PFBA										
216.00 > 172.00	4.190	4.181	0.009		1249214	2.00			33710	
6 PFMPA										
229.00 > 84.90	4.505	4.504	0.001	0.935	80235	0.1166		93.3	5349	
7 3:3 FTCA										M
241.00 > 177.00	4.517	4.516	0.001	0.937	8132	0.2199	Target=1.19	88.0	536	M
241.00 > 117.00	4.517	4.516	0.001	0.937	6145		1.32(0.60-1.79)	88.0	414	M
D 8 13C5 PFPeA										
268.30 > 223.00	4.818	4.832	-0.014	0.912	794556	2.09		105	53025	
9 PFPA										
263.00 > 219.00	4.829	4.832	-0.003	1.002	72668	0.1218		97.5	2902	
10 PFMBA										
279.00 > 85.10	4.974	4.975	-0.001	1.032	72642	0.1153		92.2	4636	
12 4:2FTS										
327.10 > 307.00	5.101	5.102	-0.001	1.002	23320	0.2047	Target=1.52	87.6	1440	
327.10 > 80.90	5.088	5.102	-0.014	1.000	16250		1.44(0.76-2.27)	87.6	602	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.088	5.102	-0.014	0.804	359493	4.30		91.7	16599	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.243	5.244	-0.001	0.992	56082	0.1261	Target=1.35	101	3271	
295.00 > 84.90	5.243	5.244	-0.001	0.992	40361		1.39(0.67-2.02)	101	2313	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.283	0.0		3109538	5.00			183698	
17 PFHxA										
313.00 > 269.00	5.283	5.283	0.0	1.000	63127	0.1238	Target=11.80	99.0	2806	
313.00 > 118.90	5.283	5.283	0.0	1.000	4500		14.03(5.90-17.70)	99.0	263	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.283	0.0	1.000	1095871	1.99		99.7	64471	
20 5:3 FTCA										
341.00 > 237.10	5.357	5.357	0.0	1.014	58785	0.6332	Target=1.01	101	3298	
341.00 > 217.00	5.357	5.357	0.0	1.014	54814		1.07(0.50-1.51)	101	3086	
25 FBSA										
297.90 > 78.00	5.414	5.414	0.0	1.000	72746	0.1340		107	3881	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.414	0.0	0.855	976723	1.68		90.1	52467	
19 PFBS										
298.70 > 79.90	5.414	5.414	0.0	1.000	57838	0.1122	Target=3.05	101	3155	
298.70 > 98.80	5.414	5.414	0.0	1.000	20093		2.88(1.53-4.58)	101	1064	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.470	5.470	0.0	1.035	1397534	2.06		103	75984	
22 HFPO-DA										
284.90 > 168.90	5.470	5.470	0.0	1.000	65997	0.0946	Target=2.44	101	2680	
284.90 > 184.90	5.470	5.470	0.0	1.000	28450		2.32(1.22-3.66)	101	1159	
24 PFEESA										
314.80 > 134.90	5.653	5.653	0.0	1.070	164125	0.1095	Target=12.34	98.4	9028	
314.80 > 82.90	5.653	5.653	0.0	1.070	13112		12.52(6.17-18.50)	98.4	722	
28 PFHpA										
363.10 > 319.00	5.709	5.708	0.001	1.000	71578	0.1352	Target=2.64	108	3102	
363.10 > 169.00	5.709	5.708	0.001	1.000	26177		2.73(1.32-3.96)	108	1511	
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.708	0.001	1.081	1110329	1.99		99.5	63261	
30 ADONA										
376.90 > 250.90	5.859	5.858	0.001	1.071	149481	0.1122	Target=1.75	94.9	5604	
376.90 > 84.80	5.859	5.858	0.001	1.071	88087		1.70(0.87-2.62)	94.9	5483	
29 PFPeS										
349.10 > 79.90	5.882	5.893	-0.011	0.929	61727	0.1211	Target=3.14	103	3865	
349.10 > 98.90	5.882	5.893	-0.011	0.929	19583		3.15(1.57-4.71)	103	1288	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.904	5.916	-0.012	0.933	451592	5.16		108	29171	
32 6:2FTS										
427.10 > 407.00	5.904	5.916	-0.012	1.000	32092	0.2110	Target=1.62	89.0	2082	
427.10 > 80.90	5.893	5.916	-0.023	0.998	17754		1.81(0.81-2.43)	89.0	1172	
33 BTS										
280.00 > 147.00	6.034	6.034	0.0	0.953	120250	0.1086		88.7	7650	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.122	-0.012	1.000	1535097	2.01		101	72377	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.110	6.122	-0.012	1.000	80333	0.1173	Target=2.44	93.9	5021	
413.00 > 169.00	6.110	6.122	-0.012	1.000	34403		2.34(1.22-3.66)	93.9	5636	
* 35 13C4 PFOA										
417.10 > 372.00	6.110	6.122	-0.012		3577512	5.00			466054	
39 7:3 FTCA										
441.00 > 316.90	6.183	6.194	-0.011	1.170	68742	0.6346	Target=0.91	102	4115	
441.00 > 336.90	6.183	6.194	-0.011	1.170	73748		0.93(0.45-1.36)	102	4373	
D 38 13C3 PFHxS										
402.10 > 79.90	6.331	6.330	0.001	1.000	980334	1.80		95.1	57008	
* 37 18O2 PFHxS										
403.00 > 83.90	6.331	6.330	0.001		1003014	1.89			58646	
40 PFHxS										
398.70 > 79.90	6.331	6.343	-0.012	1.000	46669	0.1093	Target=3.16	95.9	4552	
398.70 > 98.90	6.331	6.343	-0.012	1.000	13658		3.42(1.58-4.74)	95.9	3024	
* 42 13C5 PFNA										
468.00 > 423.00	6.519	6.530	-0.011		1375682	2.00			60806	
D 41 13C9 PFNA										
472.10 > 427.00	6.519	6.530	-0.011	1.000	1432377	2.03		102	63246	
43 PFNA										
463.00 > 419.00	6.519	6.530	-0.011	1.000	70247	0.1193	Target=2.70	95.4	6588	
463.00 > 219.00	6.519	6.530	-0.011	1.000	24897		2.82(1.35-4.05)	95.4	3860	
46 8:2FTS										
527.10 > 507.00	6.706	6.715	-0.009	1.000	25166	0.2486	Target=1.71	104	1546	
527.10 > 80.80	6.706	6.715	-0.009	1.000	12110		2.08(0.86-2.57)	104	762	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.706	6.715	-0.009	1.059	348920	4.62		96.3	21451	
44 PFECHS										
461.00 > 381.00	6.729	6.727	0.002	1.063	21224	0.1265	Target=0.29	110	1249	
461.00 > 99.00	6.729	6.727	0.002	1.063	67629		0.31(0.14-0.43)	110	4136	
47 PFHpS										
449.00 > 79.90	6.763	6.773	-0.010	0.941	66704	0.1343	Target=3.62	113	4114	
449.00 > 98.80	6.763	6.773	-0.010	0.941	17854		3.74(1.81-5.43)	113	1120	
48 FHxSA										
397.90 > 78.00	6.775	6.784	-0.009	1.070	75877	0.1210		96.8	4465	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.870	6.880	-0.010	0.956	826778	5.10		102	48336	
50 NMeFOSAA										
570.10 > 419.00	6.883	6.880	0.003	1.002	18050	0.1087	Target=1.87	87.0	3850	
570.10 > 483.00	6.883	6.880	0.003	1.002	10745		1.68(0.93-2.80)	87.0	2176	
53 PFDA										
512.90 > 469.00	6.934	6.931	0.003	1.000	70471	0.1210	Target=5.46	96.8	3895	
512.90 > 219.00	6.934	6.931	0.003	1.000	10709		6.58(2.73-8.19)	96.8	603	
* 52 13C2 PFDA										
515.10 > 470.10	6.934	6.931	0.003		1248390	2.00			52492	
D 51 13C6 PFDA										
519.10 > 474.10	6.934	6.931	0.003	1.000	1352010	2.05		103	56786	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.053	0.004	0.982	641309	4.82		96.4	34230	
55 NEtFOSAA										
584.20 > 419.10	7.071	7.067	0.004	1.002	14211	0.1344	Target=1.40	108	2734	
584.20 > 526.00	7.057	7.067	-0.010	1.000	11349		1.25(0.70-2.10)	108	1815	
D 56 13C8 PFOS										
507.10 > 79.90	7.189	7.186	0.003	1.000	892833	1.87		98.0	31215	
* 57 13C4 PFOS										
502.80 > 79.90	7.189	7.186	0.003		889945	1.91			52349	
58 PFOS										
498.90 > 79.90	7.189	7.198	-0.009	1.000	67054	0.1129	Target=4.24	97.1	12147	
498.90 > 98.80	7.189	7.198	-0.009	1.000	15061		4.45(2.12-6.36)	97.1	3065	
D 59 13C7 PFUnA										
570.00 > 525.10	7.345	7.353	-0.008	1.059	1214267	1.98		98.8	77149	
60 PFUnA										
563.10 > 519.00	7.345	7.353	-0.008	1.000	58211	0.1192	Target=5.76	95.4	3666	
563.10 > 269.10	7.345	7.353	-0.008	1.000	10906		5.34(2.88-8.63)	95.4	691	
61 9ClFOS										
530.80 > 351.00	7.507	7.514	-0.007	1.372	95489	0.1120	Target=3.18	95.9	6702	
532.80 > 353.00	7.507	7.514	-0.007	1.372	31713		3.01(1.59-4.77)	95.9	2203	
62 PFNS										
548.80 > 79.90	7.609	7.607	0.002	1.058	46659	0.1148	Target=3.81	95.5	3324	
548.80 > 98.80	7.609	7.607	0.002	1.058	11050		4.22(1.90-5.71)	95.5	771	
D 82 PFDoA										
615.10 > 570.00	7.754	7.762	-0.008	1.118	1055651	2.04		102	71592	
63 PFDoA										
613.10 > 569.00	7.764	7.762	0.002	1.001	60459	0.1223	Target=6.16	97.8	4085	
613.10 > 319.00	7.764	7.762	0.002	1.001	9345		6.47(3.08-9.25)	97.8	650	
D 64 13C8 FOSA										
506.10 > 77.80	7.980	7.997	-0.017	1.110	1128227	1.99		99.3	53976	
66 PFDS										
599.00 > 79.90	8.002	7.997	0.005	1.113	54295	0.1250	Target=3.75	104	3625	
599.00 > 98.80	8.002	7.997	0.005	1.113	13902		3.91(1.87-5.62)	104	896	
65 PFOSA										M
498.10 > 77.90	7.991	7.997	-0.006	1.001	62621	0.1230	Target=46.29	98.4	10923	
498.10 > 478.00	7.991	7.997	-0.006	1.001	1099		56.98(23.15-69.44)	98.4	189	M
67 PFTrDA										
663.00 > 619.00	8.143	8.139	0.004	0.960	59626	0.1178	Target=5.80	94.2	3506	
663.00 > 168.90	8.132	8.139	-0.007	0.959	11171		5.34(2.90-8.70)	94.2	658	
68 11ClFOS										
630.90 > 450.90	8.278	8.285	-0.007	1.513	88528	0.1101	Target=3.09	93.3	4826	
632.90 > 452.90	8.278	8.285	-0.007	1.513	28941		3.06(1.55-4.64)	93.3	1597	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.478	8.486	-0.008	1.223	713746	1.95		97.7	27984	
70 PFTeDA										
713.10 > 168.90	8.478	8.486	-0.008	1.000	7243	0.1158	Target=1.18	92.7	382	
713.10 > 219.00	8.478	8.486	-0.008	1.000	5769		1.26(0.59-1.77)	92.7	312	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.642	8.650	-0.008	1.202	60370	0.1260	Target=4.45	104	3159	
699.10 > 98.80	8.642	8.650	-0.008	1.202	14302		4.22(2.23-6.68)	104	748	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.781	-0.007	1.220	430321	4.87		97.5	11563	
72 N-MeFOSE-M										M
616.10 > 58.90	8.803	8.811	-0.008	1.003	92066	0.5809		92.9	201	M
D 74 d3-NMePFOSA										
515.00 > 219.00	8.862	8.868	-0.006	1.233	286084	1.92		95.9	9657	
75 NMeFOSA										
511.90 > 219.00	8.875	8.882	-0.007	1.002	19978	0.1344	Target=0.73	108	124	
511.90 > 169.00	8.875	8.882	-0.007	1.002	25351		0.79(0.36-1.09)	108	7343	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.962	-0.005	1.246	549462	4.78		95.6	14128	
77 N-EtFOSE-M										M
630.00 > 58.90	8.983	8.975	0.008	1.003	120908	0.6030		96.5	37385	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.027	-0.006	1.255	322909	1.92		96.1	15022	
79 N-EtFOSA-M										
526.00 > 219.00	9.034	9.040	-0.006	1.001	23375	0.1349	Target=0.82	108	195	
526.00 > 169.00	9.034	9.040	-0.006	1.001	26517		0.88(0.41-1.22)	108	232	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.180	9.174	0.006	1.083	113144	0.1245	Target=14.83	99.6	7645	
913.00 > 169.00	9.180	9.174	0.006	1.083	7718		14.66(7.41-22.24)	99.6	523	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL2_00017 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:38:07 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-06.d

Injection Date: 12-Feb-2025 12:59:00 Instrument ID: 30576

Lims ID: IC CAL 2

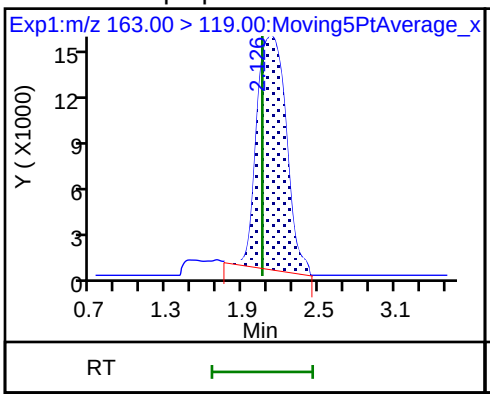
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 3 Worklist Smp#: 2

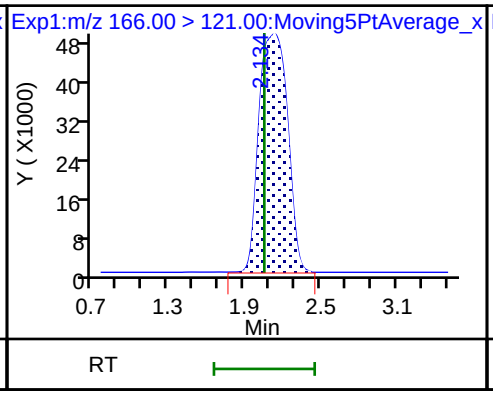
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

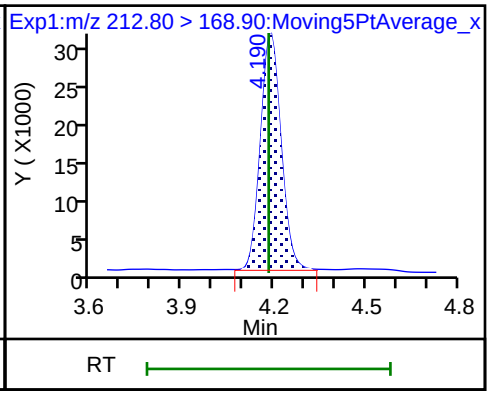
2 Perfluoropropionic acid



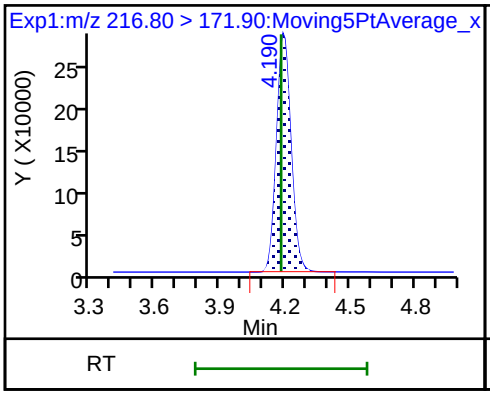
D 1 13C3PFPrA



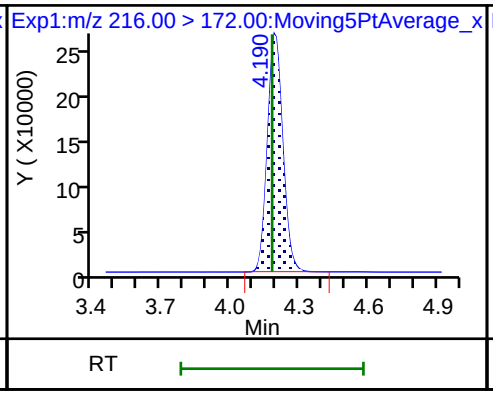
5 PFBA



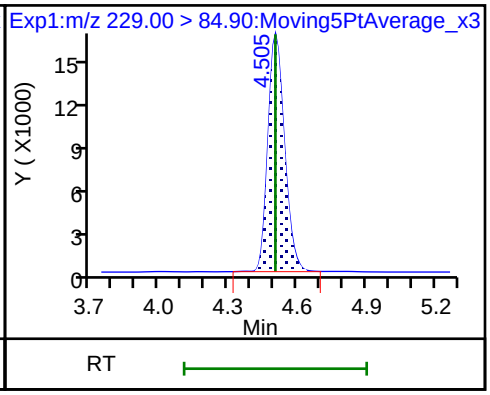
D 3 13C4-PFBA



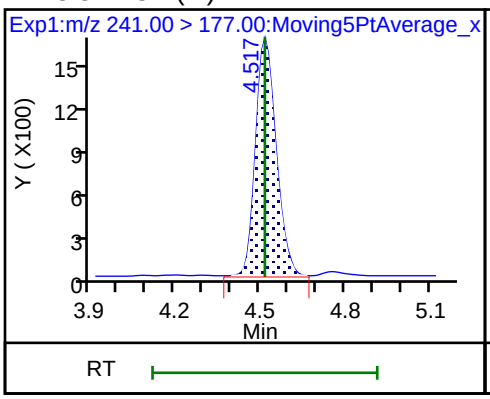
* 4 13C3PFBA



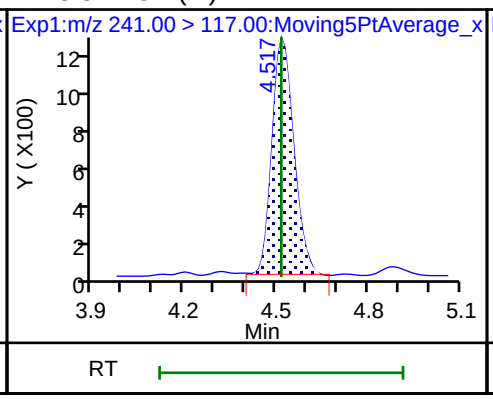
6 PFMPA



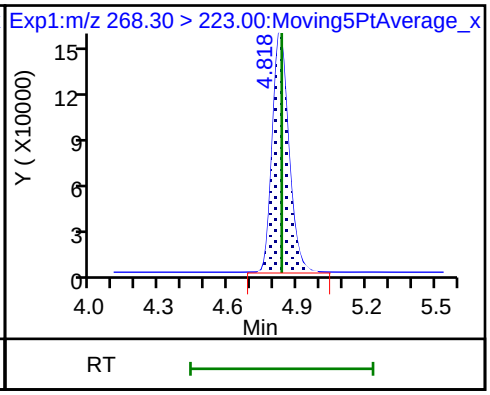
7 3:3 FTCA (M)



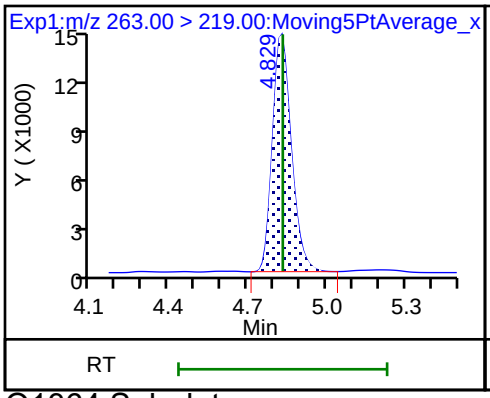
7 3:3 FTCA (M)



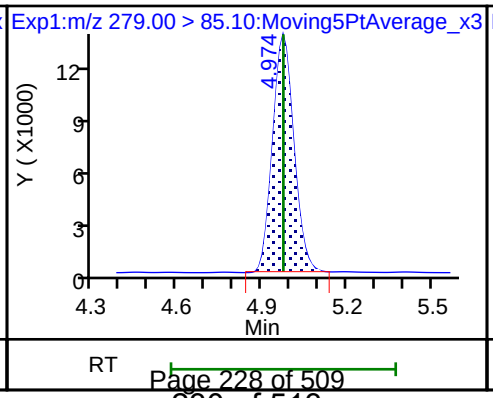
D 8 13C5 PFPeA



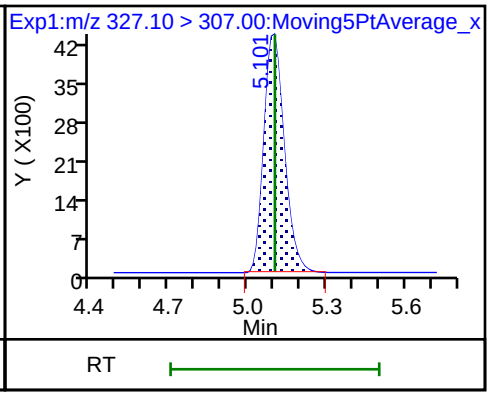
9 PFPA



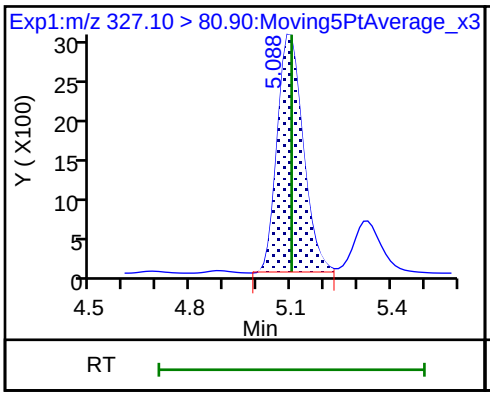
10 PFMBA



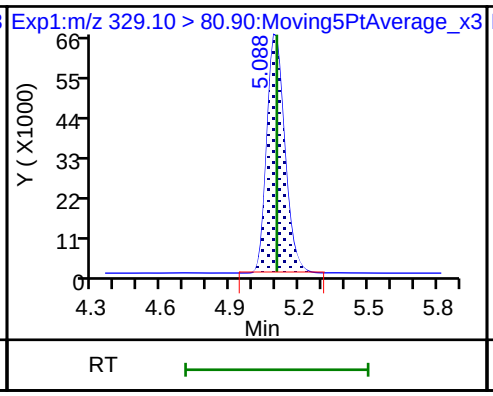
12 4:2FTS



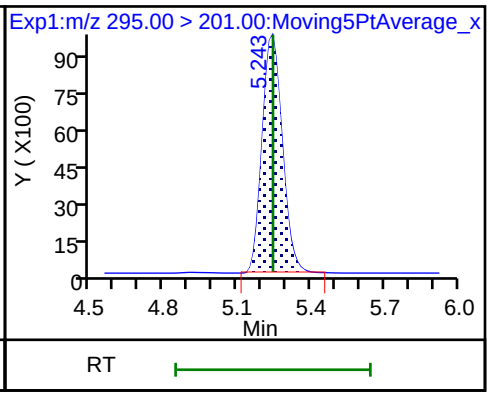
12 4:2FTS



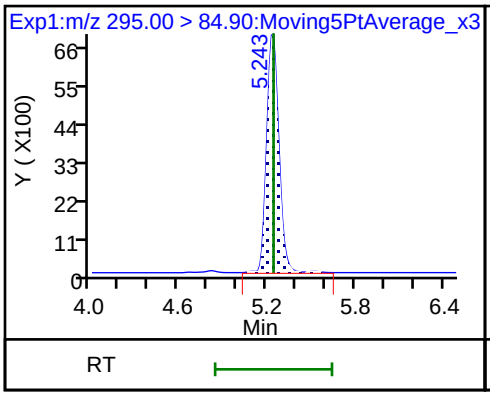
D 11 13C2-4:2FTS



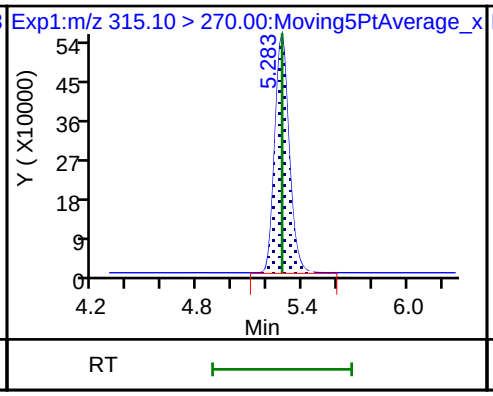
14 NFDHA



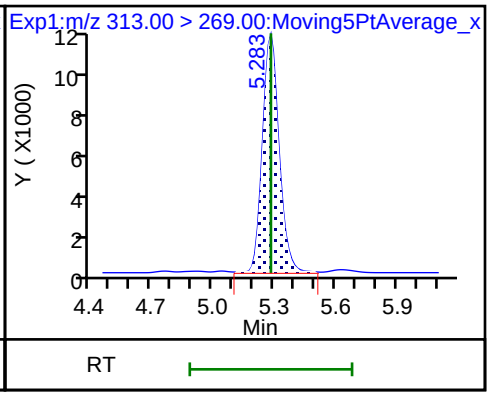
14 NFDHA



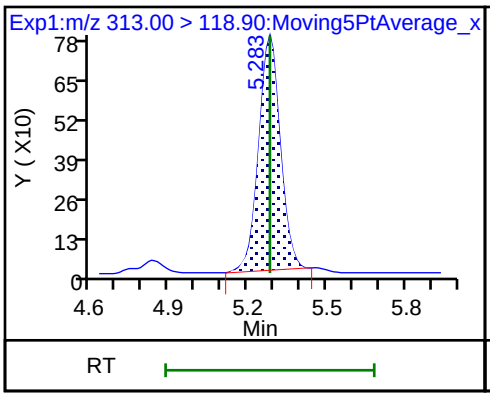
* 16 13C2 PFHxA



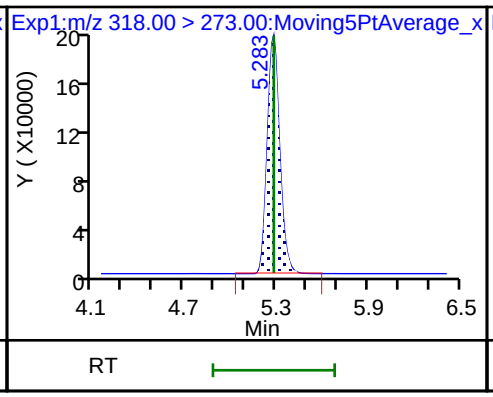
17 PFHxA



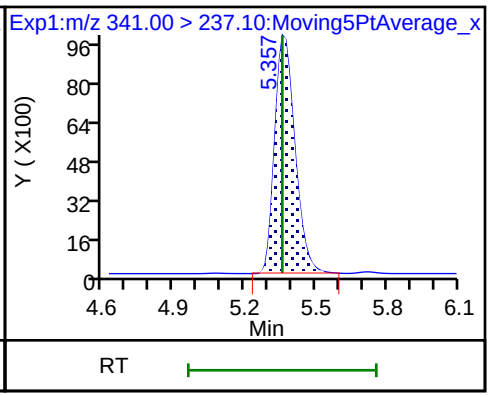
17 PFHxA



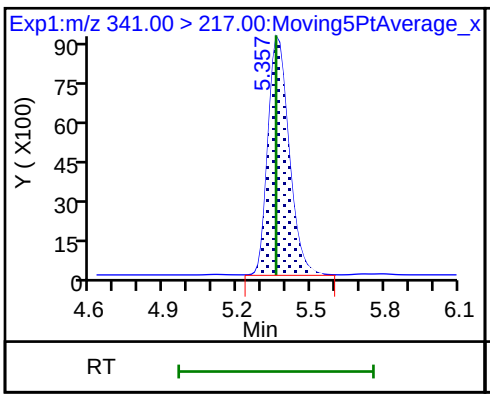
D 15 13C5 PFHxA



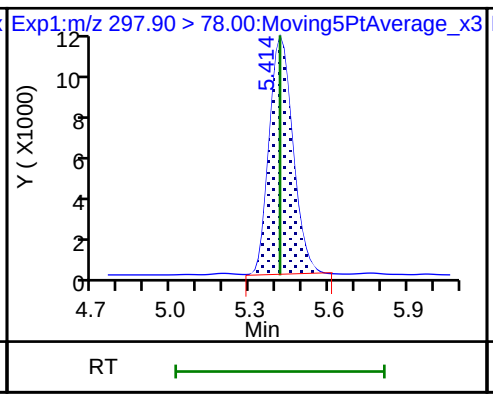
20 5:3 FTCA



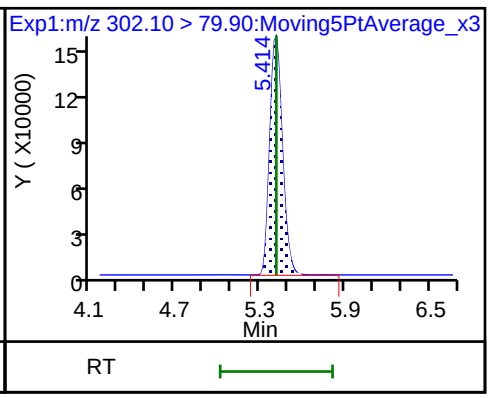
20 5:3 FTCA



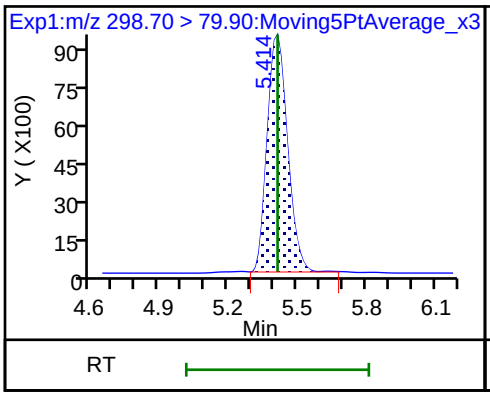
25 FBSA



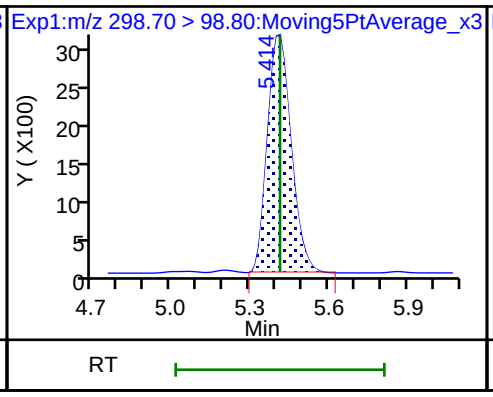
D 18 13C3 PFBS



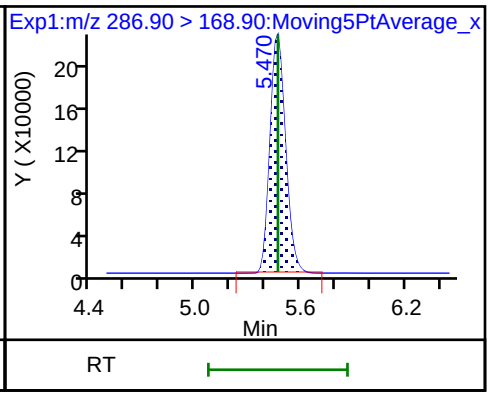
19 PFBS



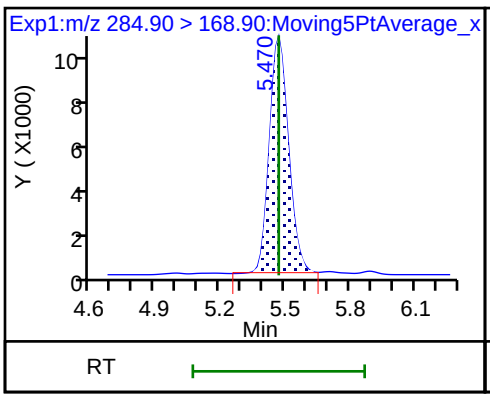
19 PFBS



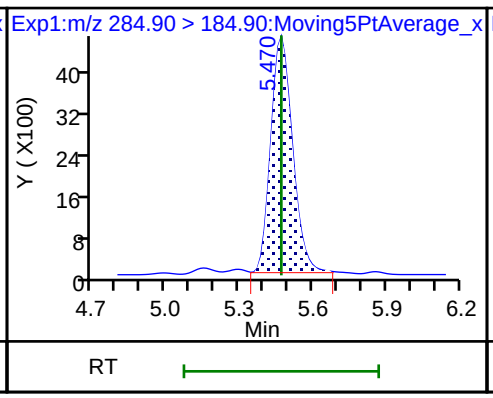
D 21 13C3 HFPO-DA



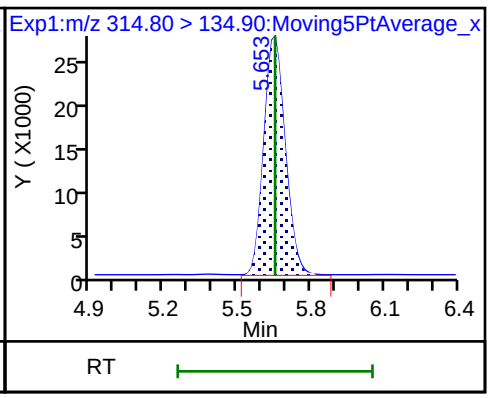
22 HFPO-DA



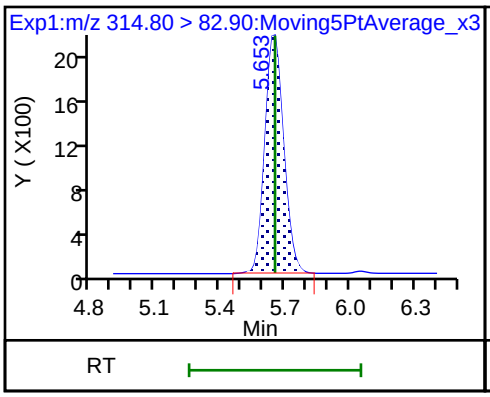
22 HFPO-DA



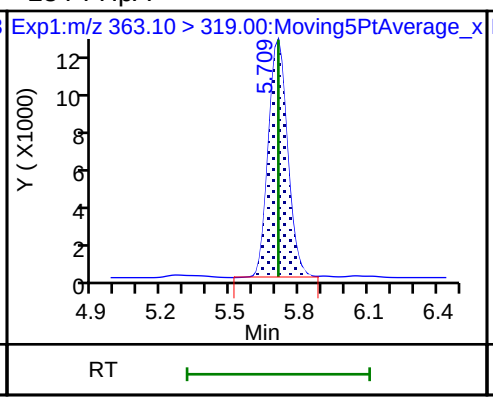
24 PFEESA



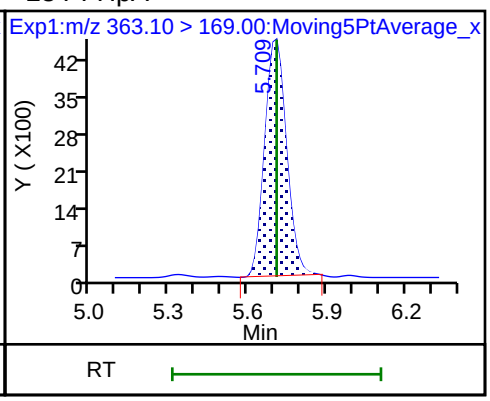
24 PFEESA



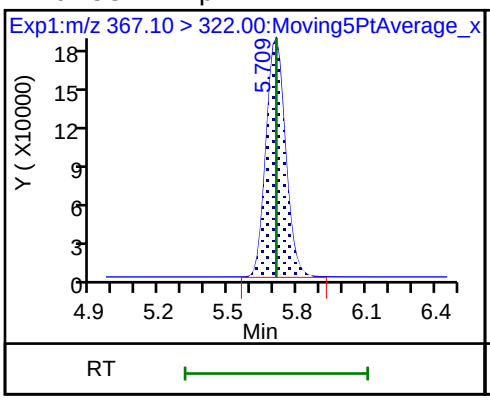
28 PFHpA



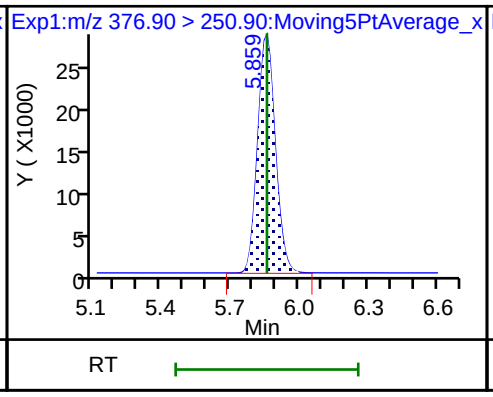
28 PFHpA



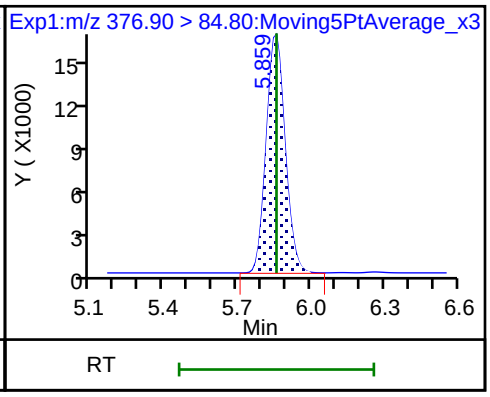
D 26 13C4 PFHpA



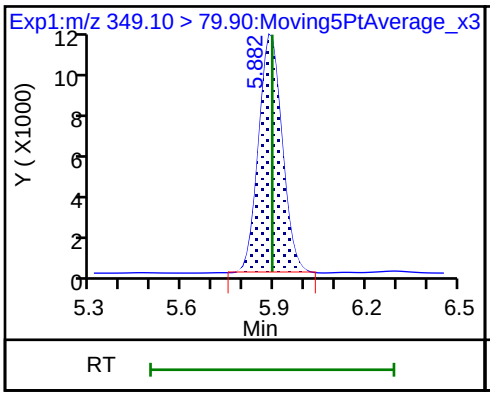
30 ADONA



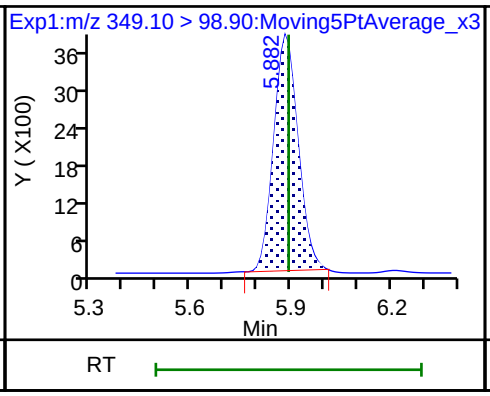
30 ADONA



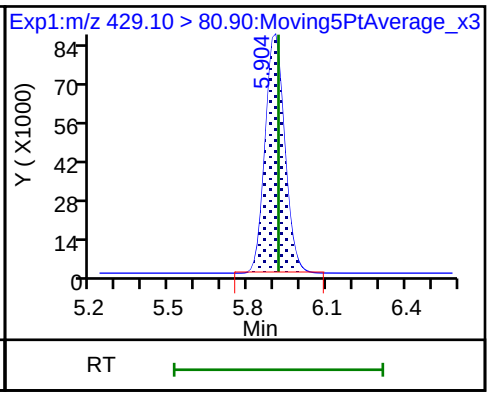
29 PFPeS



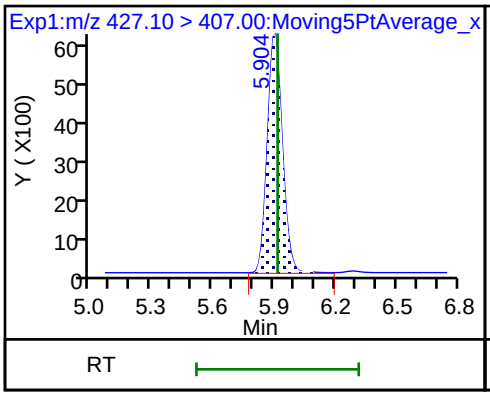
29 PFPeS



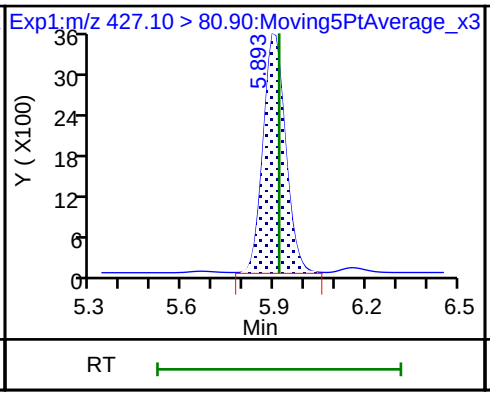
D 31 13C2-6:2FTS



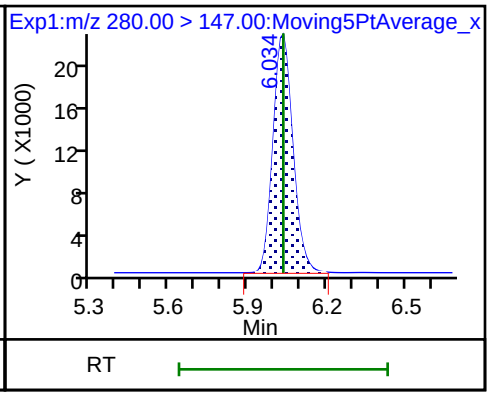
32 6:2FTS



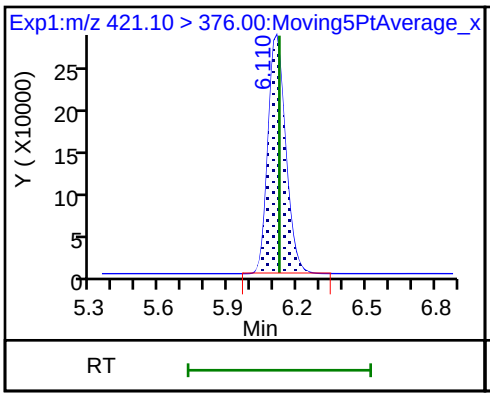
32 6:2FTS



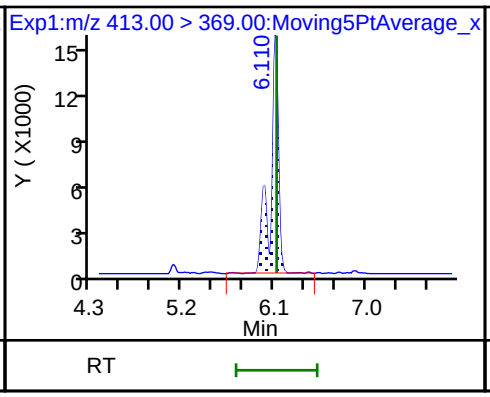
33 BTS



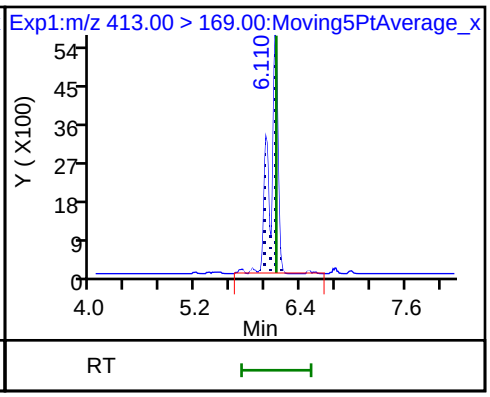
D 34 13C8 PFOA



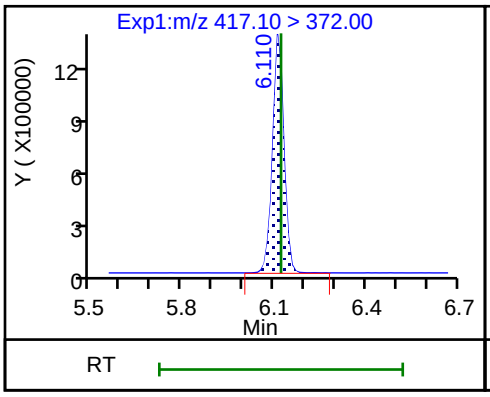
36 PFOA



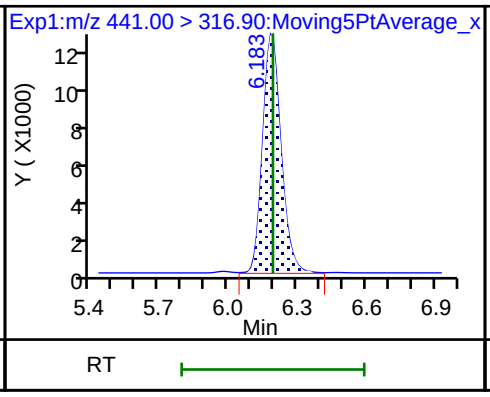
36 PFOA



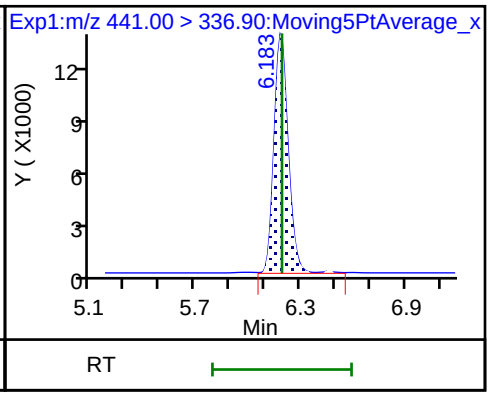
* 35 13C4 PFOA



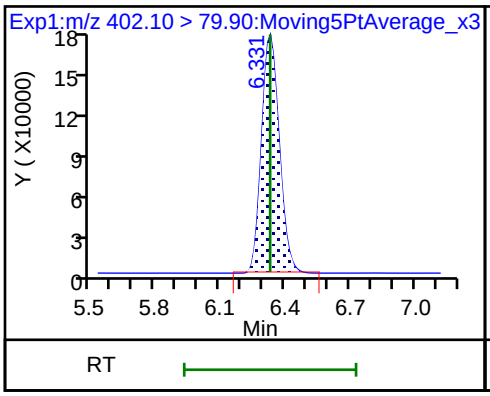
39 7:3 FTCA



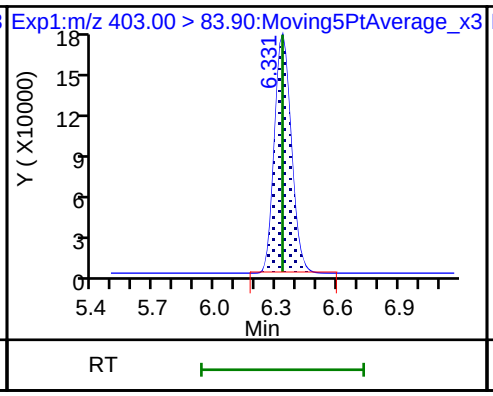
39 7:3 FTCA



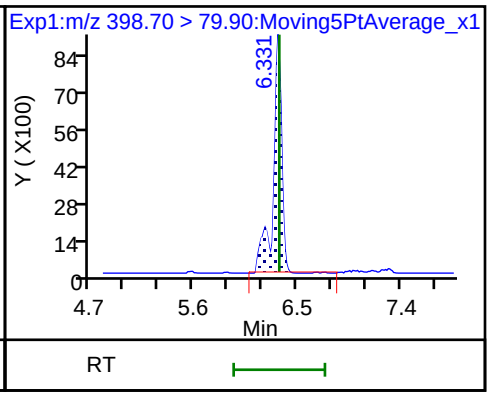
D 38 13C3 PFHxS



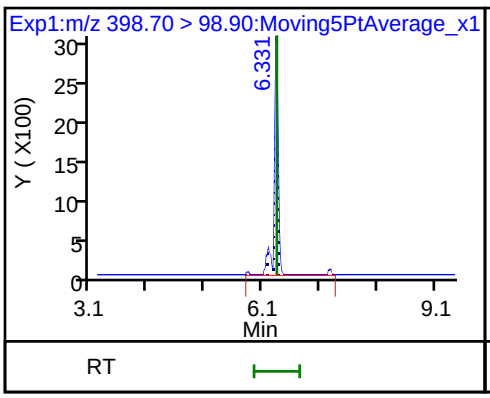
* 37 18O2 PFHxS



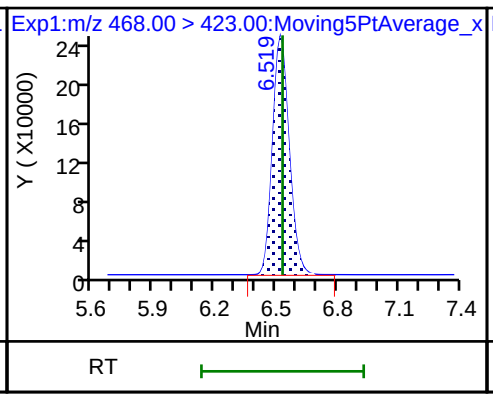
40 PFHxS



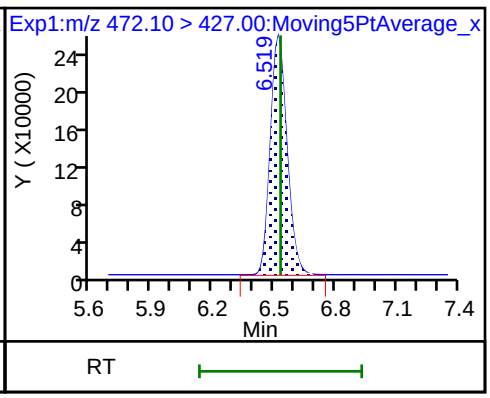
40 PFHxS



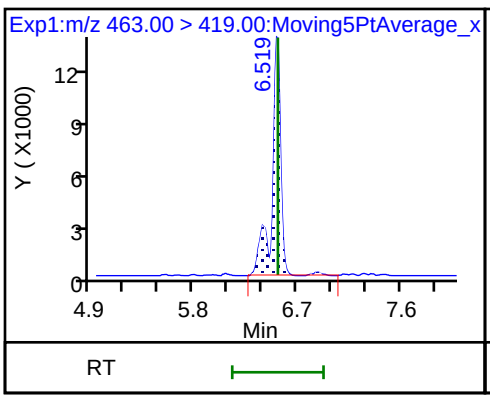
* 42 13C5 PFNA



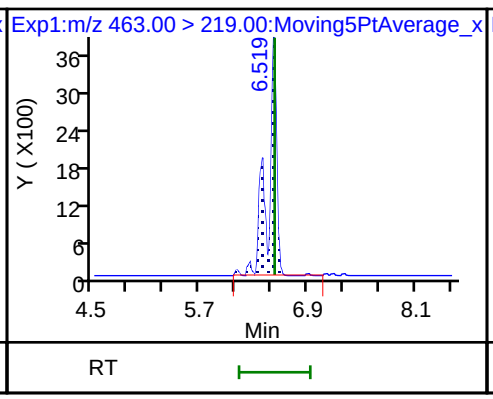
D 41 13C9 PFNA



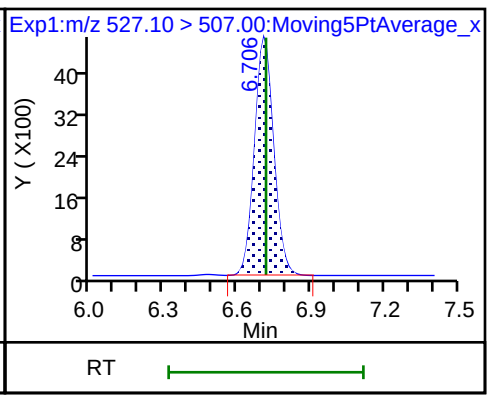
43 PFNA



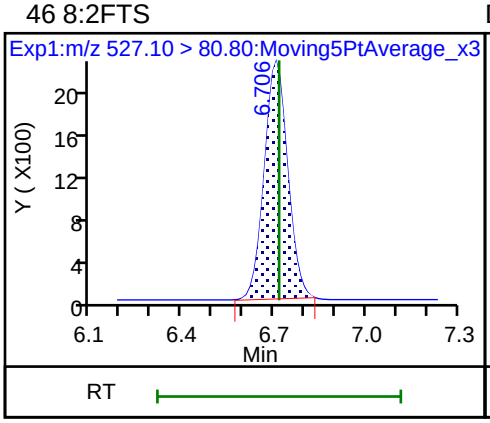
43 PFNA



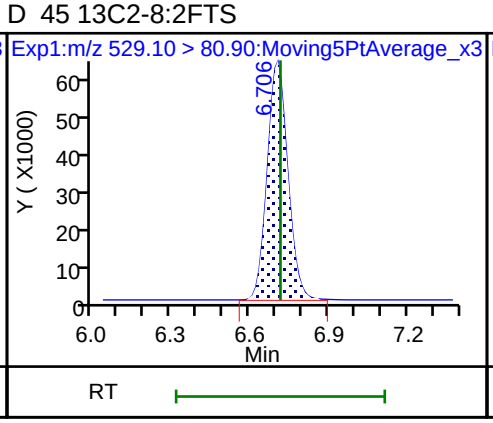
46 8:2FTS



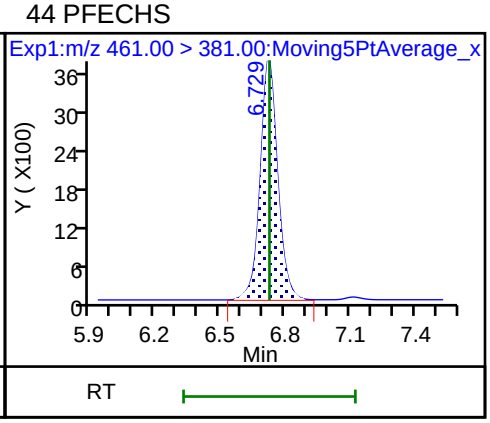
46 8:2FTS



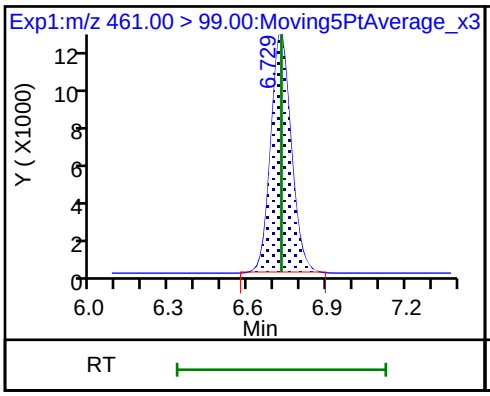
D 45 13C2-8:2FTS



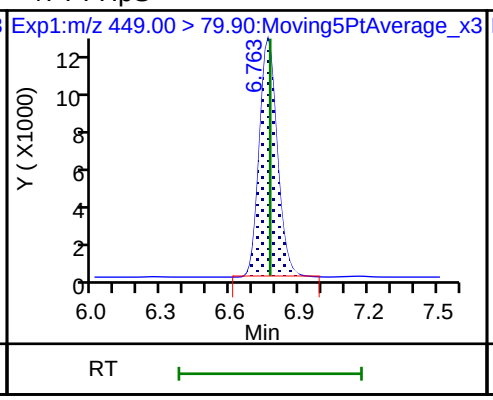
44 PFECHS



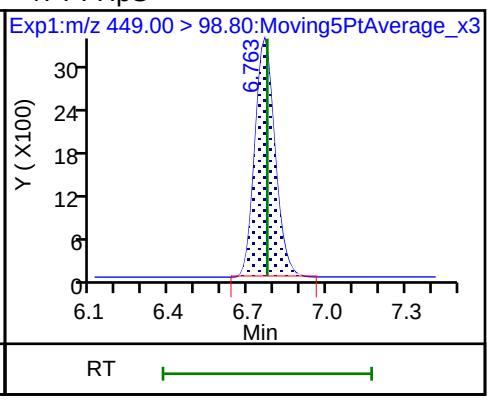
44 PFECHS



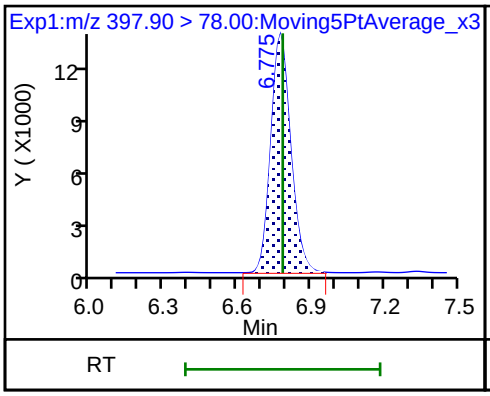
47 PFHpS



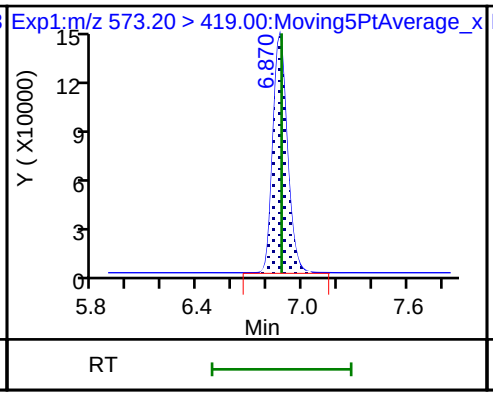
47 PFHpS



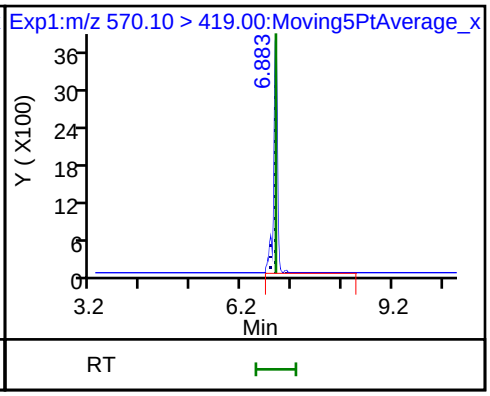
48 FHxSA



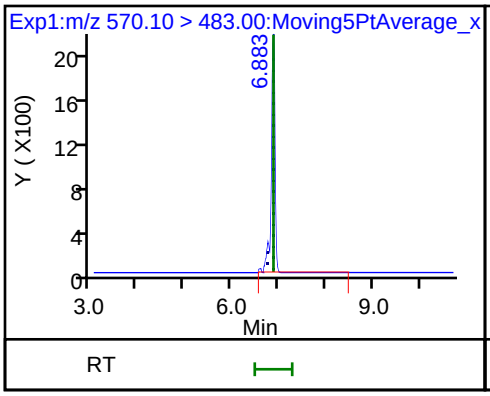
D 49 d3-NMeFOSAA



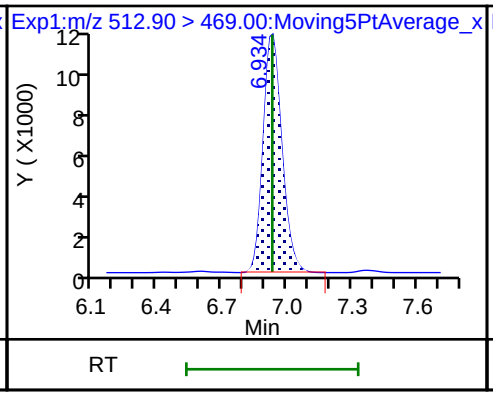
50 NMeFOSAA



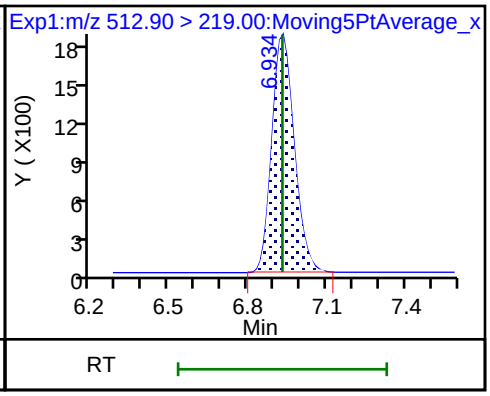
50 NMeFOSAA



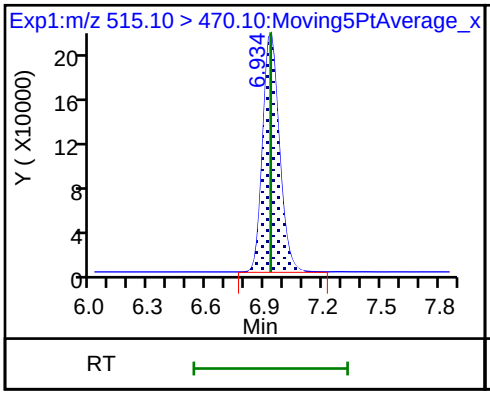
53 PFDA



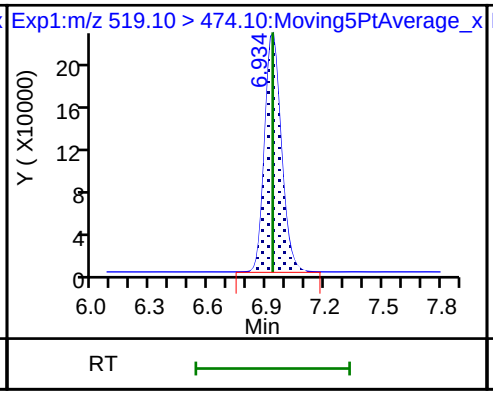
53 PFDA



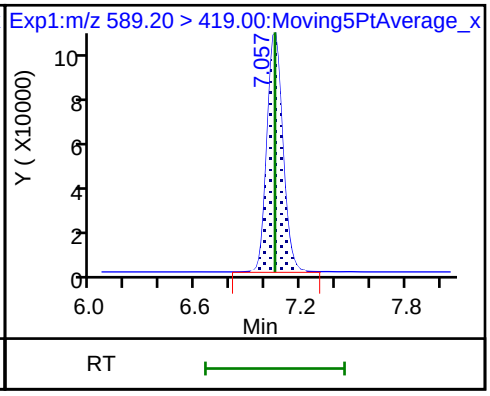
* 52 13C2 PFDA



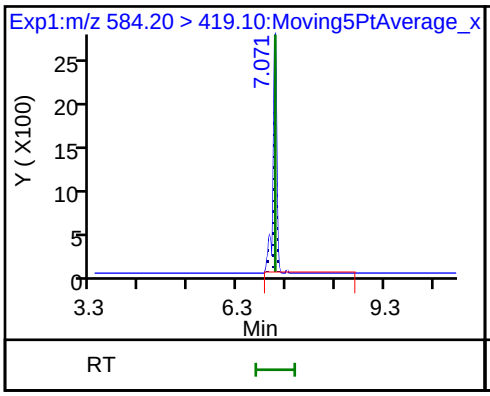
D 51 13C6 PFDA



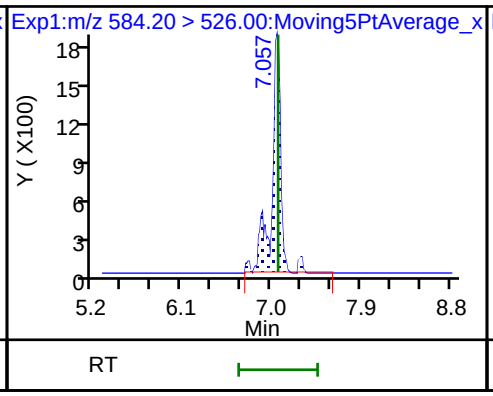
D 54 d5-NEtFOSAA



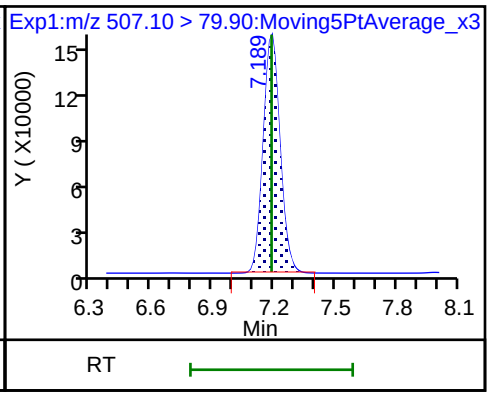
55 NEtFOSAA



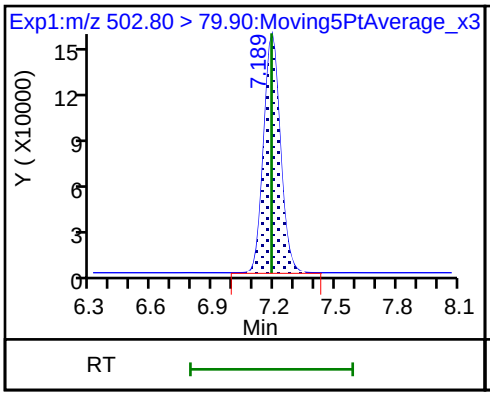
55 NEtFOSAA



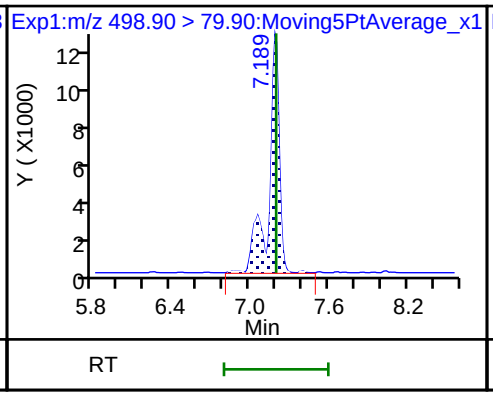
D 56 13C8 PFOS



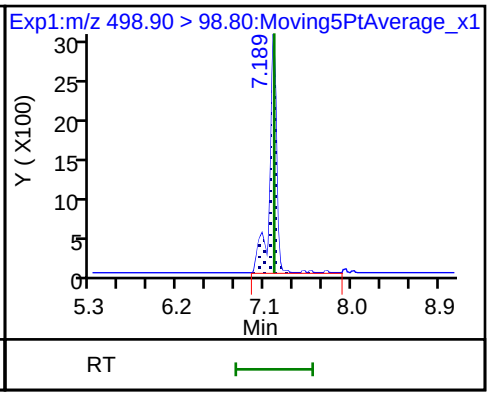
* 57 13C4 PFOS



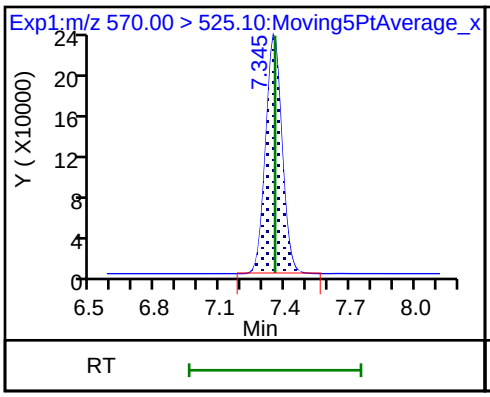
58 PFOS



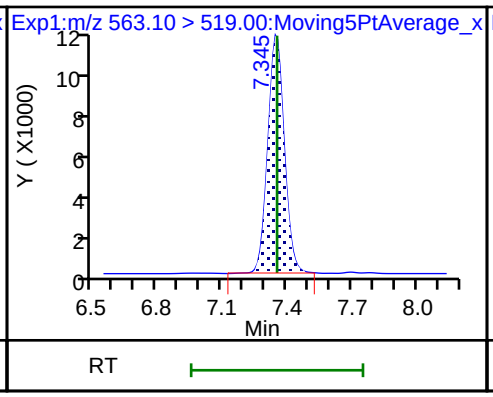
58 PFOS



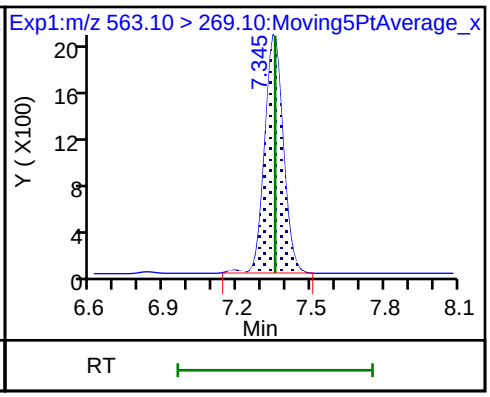
D 59 13C7 PFUnA



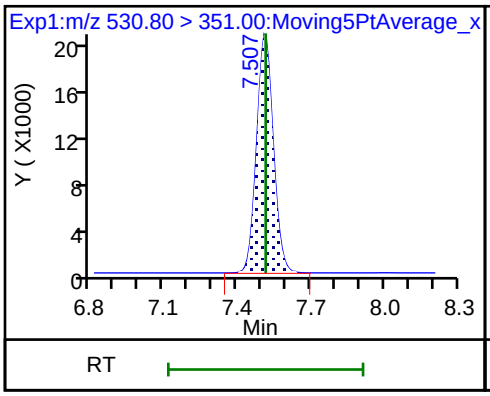
60 PFUnA



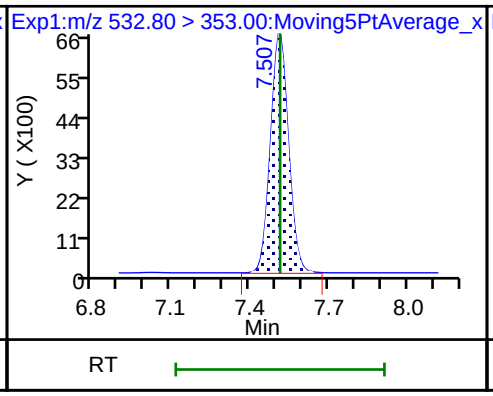
60 PFUnA



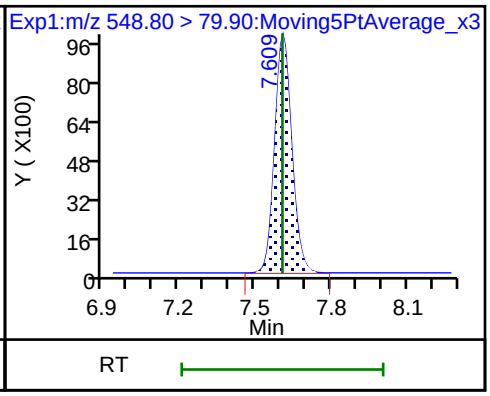
61 9ClFOS



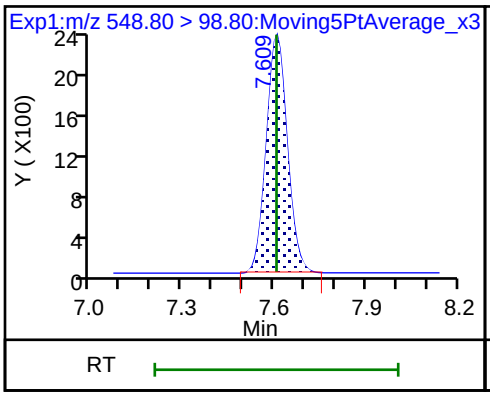
61 9ClFOS



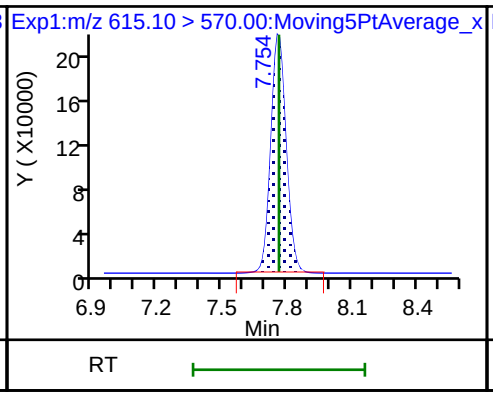
62 PFNS



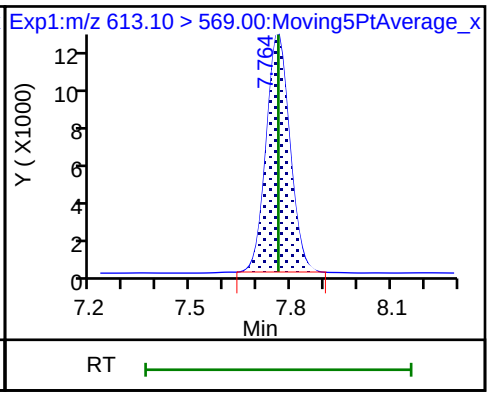
62 PFNS



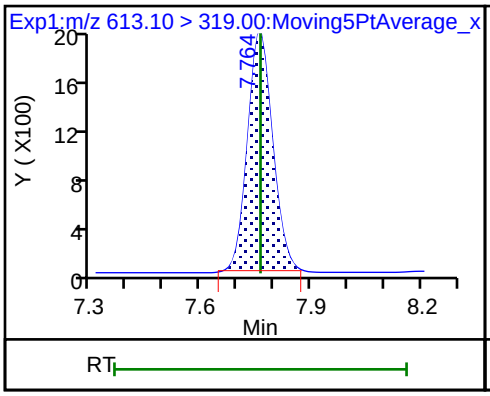
D 82 PFDoA



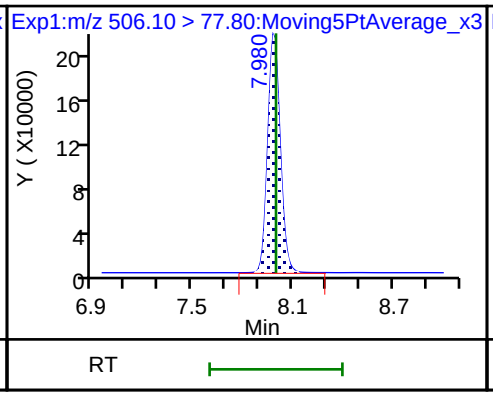
63 PFDoA



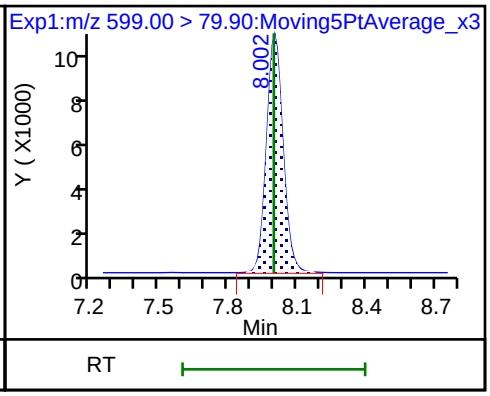
63 PFDoA



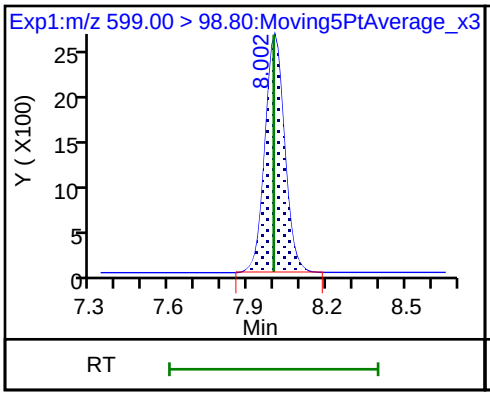
D 64 13C8 FOSA



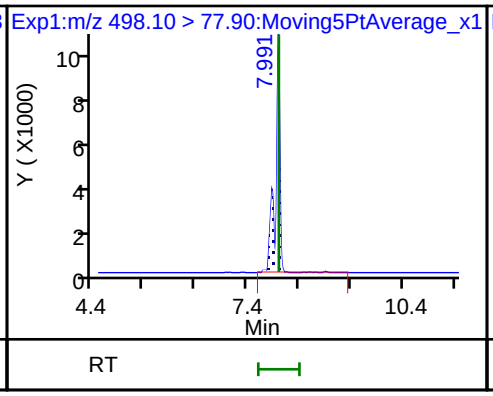
66 PFDS



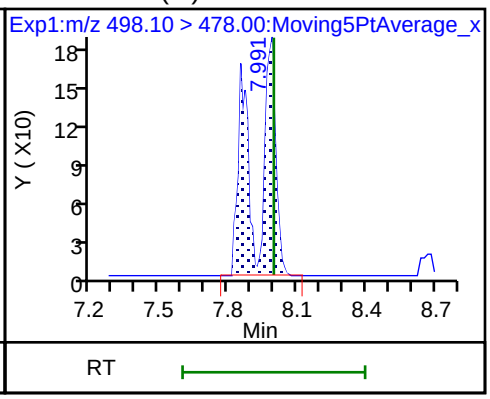
66 PFDS



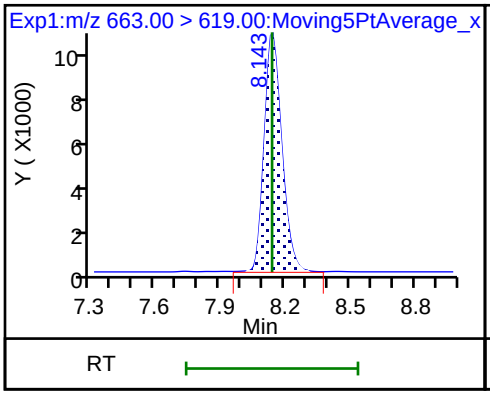
65 PFOSA



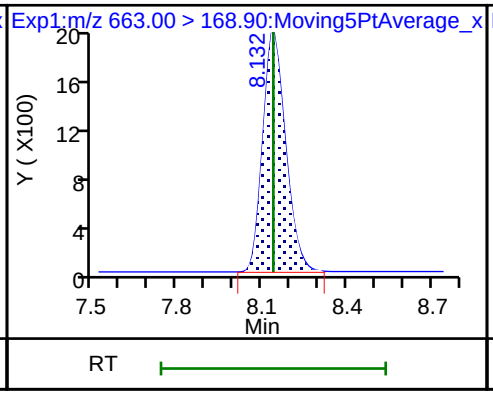
65 PFOSA (M)



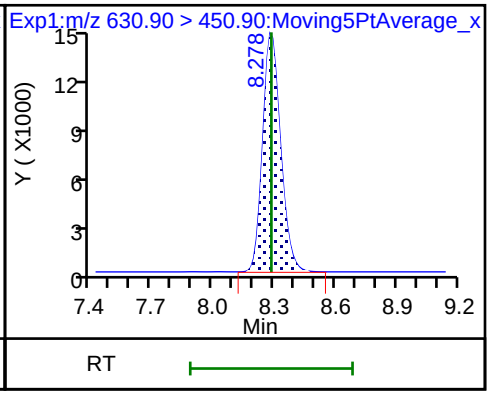
67 PFTrDA



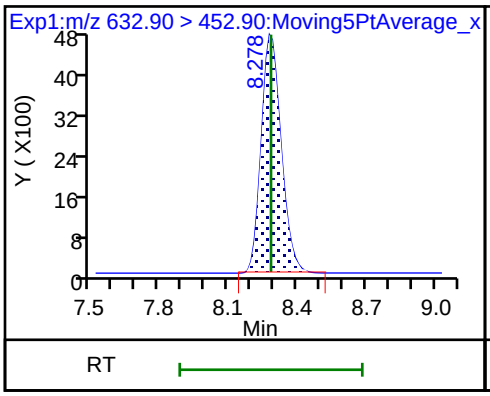
67 PFTrDA



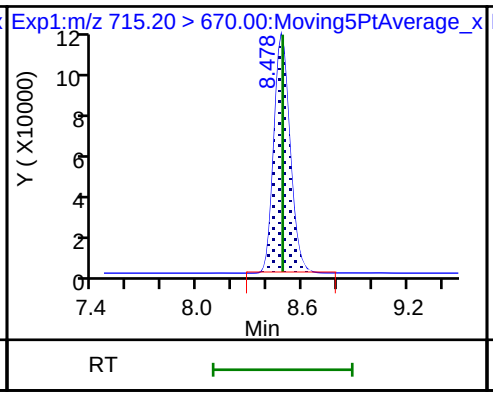
68 11ClFOS



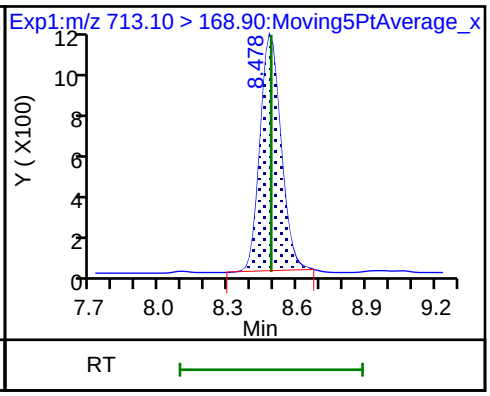
68 11ClFOS



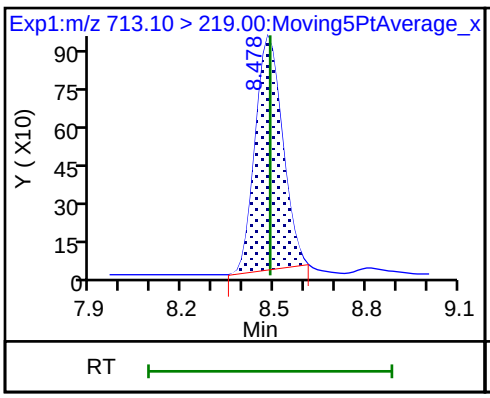
D 69 13C2 PFTeDA



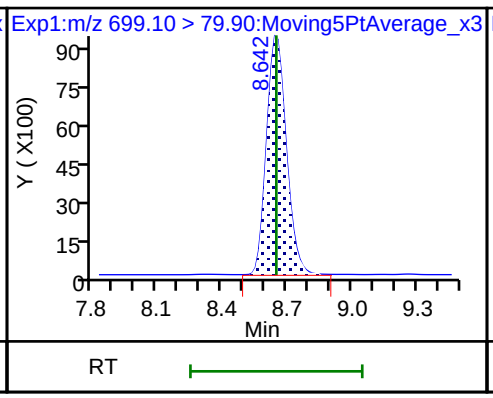
70 PFTeDA



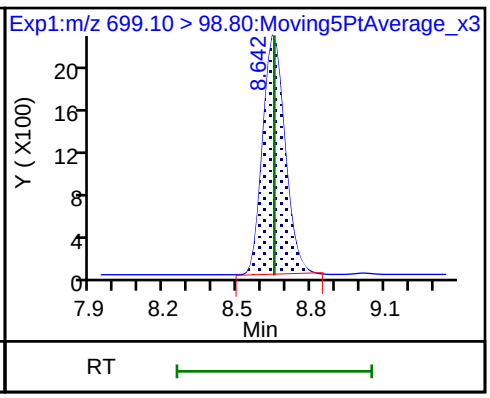
70 PFTeDA



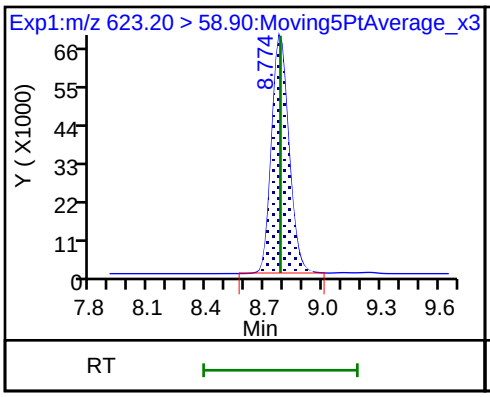
73 PFDoS



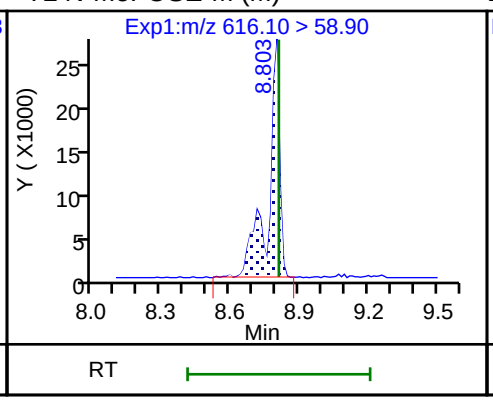
73 PFDoS



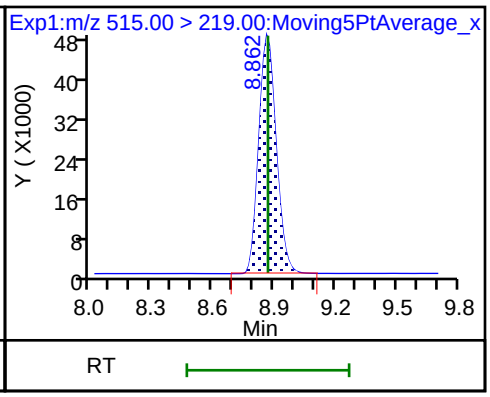
D 71 d7-N-Me-FOSE



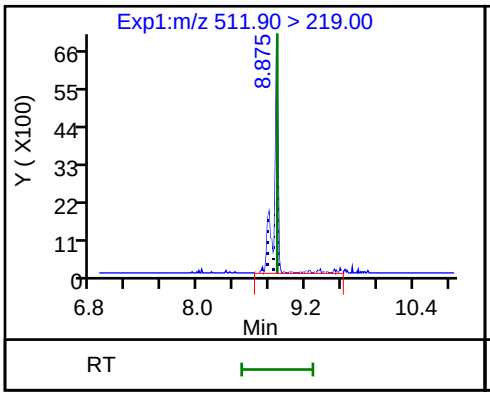
72 N-MeFOSE-M (M)



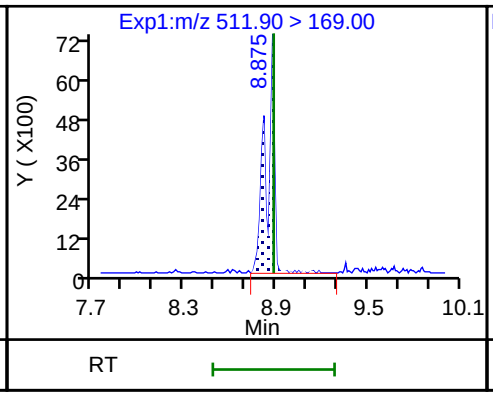
D 74 d3-NMePFOSA



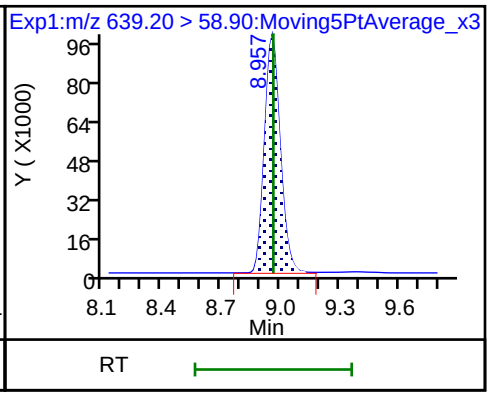
75 NMeFOSA



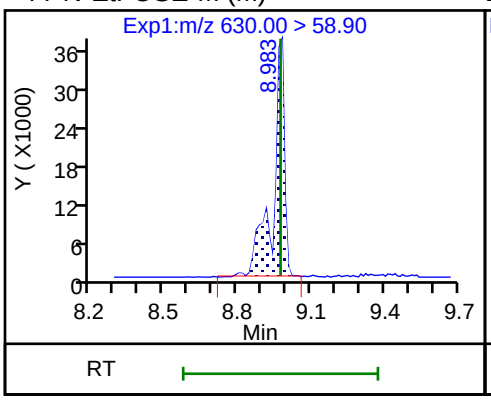
75 NMeFOSA



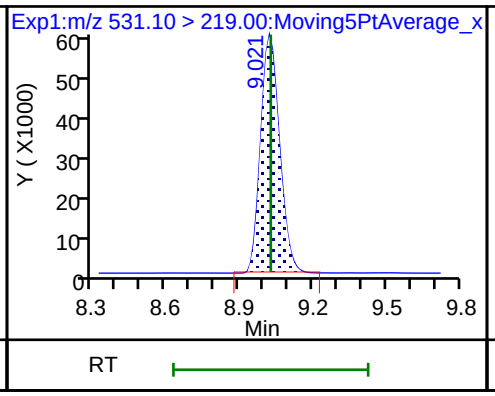
D 76 d9-N-EtFOSE



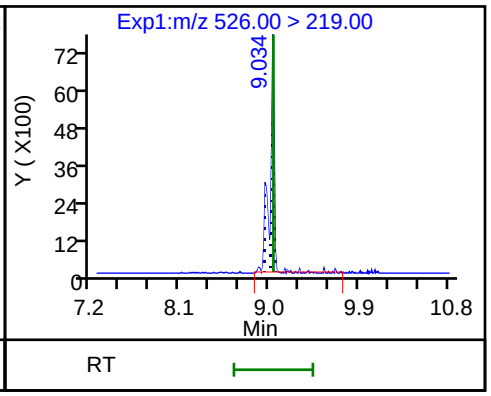
77 N-EtFOSE-M (M)



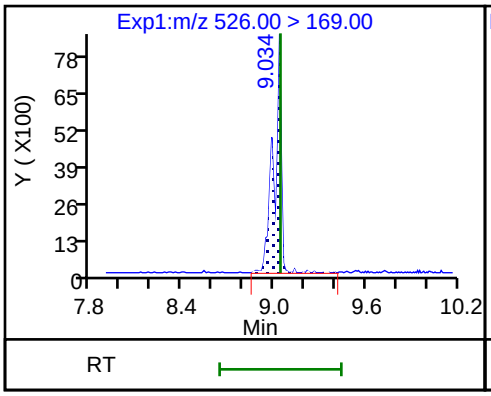
D 78 d5-NEtPFOSA



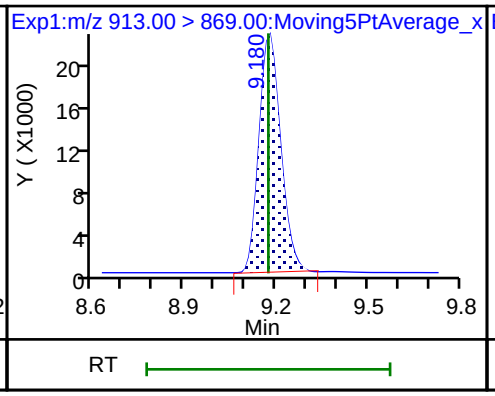
79 N-EtFOSA-M



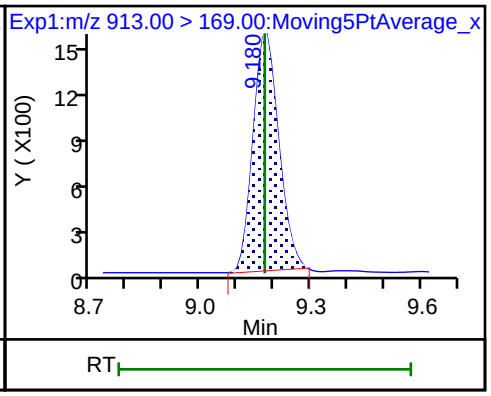
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-07.d
Lims ID: IC CAL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 12-Feb-2025 13:12:38 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL3
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:38:20 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:39:50
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.094	2.054	0.040	0.992	950539	2.54		101	4122	
D 1 13C3PFPrA										
166.00 > 121.00	2.110	2.054	0.056	0.505	773323	1.90		95.0	15833	
5 PFBA										
212.80 > 168.90	4.173	4.181	-0.008	0.998	614291	1.02		102	8632	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.181	0.0	1.000	1361606	2.00		100	71406	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.181	0.0		1274040	2.00			38259	
6 PFMPA										
229.00 > 84.90	4.505	4.504	0.001	0.935	344419	0.5047		101	17133	
7 3:3 FTCA										
241.00 > 177.00	4.516	4.516	0.0	0.937	38371	1.05	Target=1.19	105	2581	
241.00 > 117.00	4.516	4.516	0.0	0.937	30854		1.24(0.60-1.79)	105	2086	
D 8 13C5 PFPeA										
268.30 > 223.00	4.818	4.832	-0.014	0.912	787921	2.07		103	52822	
9 PFPA										
263.00 > 219.00	4.829	4.832	-0.003	1.002	311446	0.5265		105	15515	
10 PFMBA										
279.00 > 85.10	4.973	4.975	-0.002	1.032	302390	0.4841		96.8	19481	
12 4:2FTS										
327.10 > 307.00	5.100	5.102	-0.002	1.002	119990	0.9513	Target=1.52	102	7367	
327.10 > 80.90	5.088	5.102	-0.014	1.000	81538		1.47(0.76-2.27)	102	4801	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.088	5.102	-0.014	0.804	397958	4.95		106	24635	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.229	5.244	-0.015	0.990	239474	0.5306	Target=1.35	106	13826	
295.00 > 84.90	5.229	5.244	-0.015	0.990	171728		1.39(0.67-2.02)	106	9849	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.283	0.0		3121493	5.00			183537	
17 PFHxA										
313.00 > 269.00	5.283	5.283	0.0	1.000	276591	0.5344	Target=11.80	107	12119	
313.00 > 118.90	5.283	5.283	0.0	1.000	21755		12.71(5.90-17.70)	107	1275	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.283	0.0	1.000	1112029	2.01		101	64964	
20 5:3 FTCA										
341.00 > 237.10	5.357	5.357	0.0	1.014	237771	2.52	Target=1.01	101	13451	
341.00 > 217.00	5.357	5.357	0.0	1.014	259577		0.92(0.50-1.51)	101	14770	
D 18 13C3 PFBS										
302.10 > 79.90	5.400	5.414	-0.014	0.853	998944	1.79		95.9	54178	
19 PFBS										
298.70 > 79.90	5.400	5.414	-0.014	1.000	272125	0.5161	Target=3.05	116	14728	
298.70 > 98.80	5.400	5.414	-0.014	1.000	82124		3.31(1.53-4.58)	116	4487	
25 FBSA										
297.90 > 78.00	5.414	5.414	0.0	1.003	284564	0.5127		103	14808	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.456	5.470	-0.014	1.033	1356500	1.99		99.4	73426	
22 HFPO-DA										
284.90 > 168.90	5.456	5.470	-0.014	1.000	269530	0.3980	Target=2.44	106	10797	
284.90 > 184.90	5.470	5.470	0.0	1.003	103359		2.61(1.22-3.66)	106	5558	
24 PFEESA										
314.80 > 134.90	5.639	5.653	-0.014	1.067	670173	0.4406	Target=12.34	98.8	36555	
314.80 > 82.90	5.639	5.653	-0.014	1.067	54666		12.26(6.17-18.50)	98.8	2971	
28 PFHpA										
363.10 > 319.00	5.709	5.708	0.001	1.000	283821	0.5298	Target=2.64	106	16176	
363.10 > 169.00	5.709	5.708	0.001	1.000	109439		2.59(1.32-3.96)	106	6209	
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.708	0.001	1.081	1123852	2.01		100	63352	
30 ADONA										
376.90 > 250.90	5.859	5.858	0.001	1.074	625320	0.4835	Target=1.75	102	19736	
376.90 > 84.80	5.859	5.858	0.001	1.074	356727		1.75(0.87-2.62)	102	22552	
29 PFPeS										
349.10 > 79.90	5.893	5.893	0.0	0.931	274907	0.5078	Target=3.14	108	17391	
349.10 > 98.90	5.893	5.893	0.0	0.931	83586		3.29(1.57-4.71)	108	5278	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.904	5.916	-0.012	0.933	405840	4.82		101	26698	
32 6:2FTS										
427.10 > 407.00	5.904	5.916	-0.012	1.000	132462	0.9690	Target=1.62	102	8584	
427.10 > 80.90	5.904	5.916	-0.012	1.000	85471		1.55(0.81-2.43)	102	5515	
33 BTS										
280.00 > 147.00	6.034	6.034	0.0	0.953	630801	0.4967		101	40997	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.122	-0.012	0.998	1604347	2.00		99.8	76226	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.122	6.122	0.0	1.002	329402	0.5035	Target=2.44	101	12957	
413.00 > 169.00	6.122	6.122	0.0	1.002	141997		2.32(1.22-3.66)	101	24512	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.122	0.0		3768146	5.00			380238	
39 7:3 FTCA										
441.00 > 316.90	6.195	6.194	0.001	1.173	276494	2.52	Target=0.91	101	16553	
441.00 > 336.90	6.195	6.194	0.001	1.173	311209		0.89(0.45-1.36)	101	18554	
D 38 13C3 PFHxS										
402.10 > 79.90	6.331	6.330	0.001	1.000	1041236	1.99		105	61035	
* 37 18O2 PFHxS										
403.00 > 83.90	6.331	6.330	0.001		964629	1.89			56492	
40 PFHxS										
398.70 > 79.90	6.331	6.343	-0.012	1.000	201445	0.4442	Target=3.16	97.4	19864	
398.70 > 98.90	6.331	6.343	-0.012	1.000	64507		3.12(1.58-4.74)	97.4	13743	
43 PFNA										
463.00 > 419.00	6.519	6.530	-0.011	1.000	281049	0.5091	Target=2.70	102	53839	
463.00 > 219.00	6.532	6.530	0.002	1.002	98982		2.84(1.35-4.05)	102	15263	
* 42 13C5 PFNA										
468.00 > 423.00	6.519	6.530	-0.011		1223349	2.00			53646	
D 41 13C9 PFNA										
472.10 > 427.00	6.519	6.530	-0.011	1.000	1342912	2.14		107	78695	
46 8:2FTS										
527.10 > 507.00	6.706	6.715	-0.009	1.000	98935	1.04	Target=1.71	109	6194	
527.10 > 80.80	6.706	6.715	-0.009	1.000	59422		1.66(0.86-2.57)	109	3718	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.706	6.715	-0.009	1.059	327829	4.51		94.0	20382	
44 PFECHS										
461.00 > 381.00	6.729	6.727	0.002	1.063	76815	0.4311	Target=0.29	93.3	4711	
461.00 > 99.00	6.729	6.727	0.002	1.063	284302		0.27(0.14-0.43)	93.3	17265	
47 PFHpS										
449.00 > 79.90	6.763	6.773	-0.010	0.941	257653	0.4984	Target=3.62	104	15931	
449.00 > 98.80	6.763	6.773	-0.010	0.941	68674		3.75(1.81-5.43)	104	4211	
48 FHxSA										
397.90 > 78.00	6.786	6.784	0.002	1.072	333281	0.5004		100	19367	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.871	6.880	-0.009	0.956	806325	4.65		92.9	46811	
50 NMeFOSAA										
570.10 > 419.00	6.871	6.880	-0.009	1.000	86577	0.5346	Target=1.87	107	18372	
570.10 > 483.00	6.871	6.880	-0.009	1.000	48376		1.79(0.93-2.80)	107	10007	
53 PFDA										
512.90 > 469.00	6.934	6.931	0.003	1.000	313435	0.5081	Target=5.46	102	17745	
512.90 > 219.00	6.934	6.931	0.003	1.000	66653		4.70(2.73-8.19)	102	3740	
* 52 13C2 PFDA										
515.10 > 470.10	6.934	6.931	0.003		1391995	2.00			58614	
D 51 13C6 PFDA										
519.10 > 474.10	6.934	6.931	0.003	1.000	1431509	1.95		97.5	60339	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.053	0.004	0.982	664515	4.67		93.3	35579	
55 NEtFOSAA										
584.20 > 419.10	7.057	7.067	-0.010	1.000	66006	0.5612	Target=1.40	112	12961	
584.20 > 526.00	7.071	7.067	0.004	1.002	39262		1.68(0.70-2.10)	112	7244	
D 56 13C8 PFOS										
507.10 > 79.90	7.190	7.186	0.004	1.000	929057	1.82		95.2	27186	
* 57 13C4 PFOS										
502.80 > 79.90	7.190	7.186	0.004		952531	1.91			56161	
58 PFOS										
498.90 > 79.90	7.190	7.198	-0.008	1.000	292963	0.4740	Target=4.24	102	56180	
498.90 > 98.80	7.190	7.198	-0.008	1.000	71258		4.11(2.12-6.36)	102	15592	
D 59 13C7 PFUnA										
570.00 > 525.10	7.345	7.353	-0.008	1.059	1263654	1.84		92.2	80296	
60 PFUnA										
563.10 > 519.00	7.345	7.353	-0.008	1.000	257528	0.5067	Target=5.76	101	16321	
563.10 > 269.10	7.356	7.353	0.003	1.001	45140		5.71(2.88-8.63)	101	2832	
61 9ClFOS										
530.80 > 351.00	7.508	7.514	-0.006	1.376	400417	0.4838	Target=3.18	104	28000	
532.80 > 353.00	7.508	7.514	-0.006	1.376	124897		3.21(1.59-4.77)	104	8724	
62 PFNS										
548.80 > 79.90	7.610	7.607	0.003	1.058	206825	0.4891	Target=3.81	102	14536	
548.80 > 98.80	7.610	7.607	0.003	1.058	50769		4.07(1.90-5.71)	102	3594	
D 82 PFDoA										
615.10 > 570.00	7.755	7.762	-0.007	1.118	1071834	1.86		93.0	72537	
63 PFDoA										
613.10 > 569.00	7.755	7.762	-0.007	1.000	250033	0.4981	Target=6.16	99.6	16915	
613.10 > 319.00	7.755	7.762	-0.007	1.000	40592		6.16(3.08-9.25)	99.6	2745	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	7.997	-0.006	1.111	1112702	1.83		91.5	53619	
66 PFDS										
599.00 > 79.90	8.002	7.997	0.005	1.113	218013	0.4825	Target=3.75	100	14476	
599.00 > 98.80	8.002	7.997	0.005	1.113	60006		3.63(1.87-5.62)	100	3939	
65 PFOSA										
498.10 > 77.90	7.991	7.997	-0.006	1.000	253480	0.5050	Target=46.29	101	43131	
498.10 > 478.00	7.991	7.997	-0.006	1.000	6579		38.53(23.15-69.44)	101	1029	
67 PFTrDA										
663.00 > 619.00	8.132	8.139	-0.007	0.959	267417	0.5044	Target=5.80	101	15558	
663.00 > 168.90	8.132	8.139	-0.007	0.959	44786		5.97(2.90-8.70)	101	2584	
68 11ClFOS										
630.90 > 450.90	8.278	8.285	-0.007	1.517	398697	0.5109	Target=3.09	108	22088	
632.90 > 452.90	8.278	8.285	-0.007	1.517	131321		3.04(1.55-4.64)	108	7192	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.478	8.486	-0.008	1.223	781420	1.92		95.9	41035	
70 PFTeDA										
713.10 > 168.90	8.478	8.486	-0.008	1.000	34220	0.4998	Target=1.18	100.0	1783	
713.10 > 219.00	8.478	8.486	-0.008	1.000	29150		1.17(0.59-1.77)	100.0	1529	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.642	8.650	-0.008	1.202	242097	0.4858	Target=4.45	100	12708	
699.10 > 98.80	8.642	8.650	-0.008	1.202	58769		4.12(2.23-6.68)	100	3071	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.781	-0.007	1.220	441656	4.67		93.4	10174	
72 N-MeFOSE-M										
616.10 > 58.90	8.803	8.811	-0.008	1.003	402754	2.48		99.0	1861	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.862	8.868	-0.006	1.233	289634	1.82		90.8	12236	
75 NMeFOSA										
511.90 > 219.00	8.876	8.882	-0.006	1.002	74765	0.4968	Target=0.73	99.4	405	
511.90 > 169.00	8.876	8.882	-0.006	1.002	102914		0.73(0.36-1.09)	99.4	478	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.962	-0.005	1.246	576490	4.69		93.8	14834	
77 N-EtFOSE-M										
630.00 > 58.90	8.970	8.975	-0.005	1.001	534495	2.54		102	3657	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.027	-0.006	1.255	325864	1.81		90.6	15159	
79 N-EtFOSA-M										
526.00 > 219.00	9.034	9.040	-0.006	1.001	88289	0.5049	Target=0.82	101	30732	
526.00 > 169.00	9.034	9.040	-0.006	1.001	106711		0.83(0.41-1.22)	101	29956	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.168	9.174	-0.006	1.081	481555	0.4838	Target=14.83	96.8	24387	
913.00 > 169.00	9.168	9.174	-0.006	1.081	33052		14.57(7.41-22.24)	96.8	2246	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL3_00017 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:38:21 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-07.d

Injection Date: 12-Feb-2025 13:12:38 Instrument ID: 30576

Lims ID: IC CAL 3

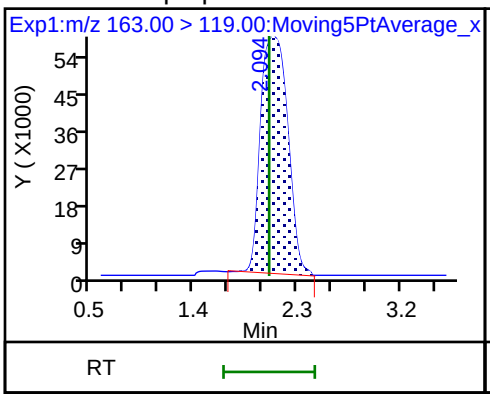
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 4 Worklist Smp#: 3

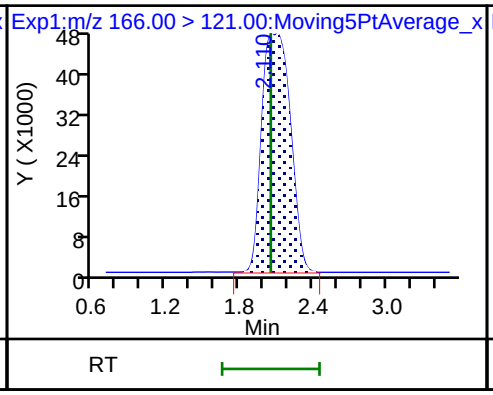
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

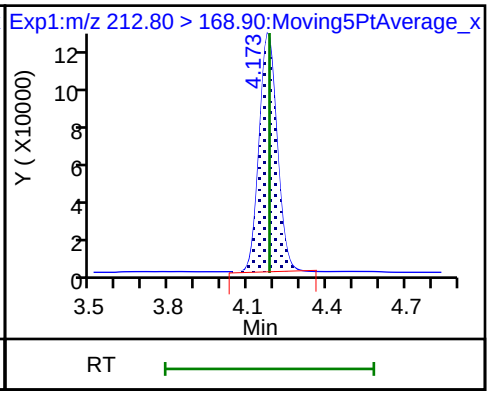
2 Perfluoropropionic acid



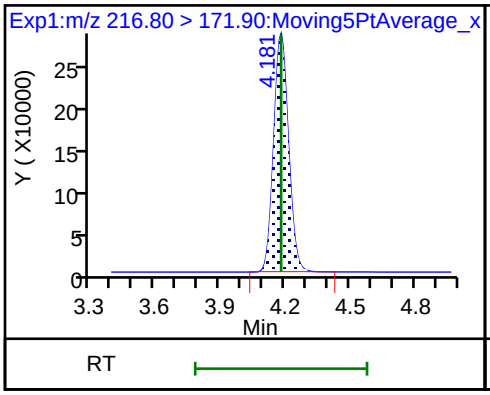
D 1 13C3PFPrA



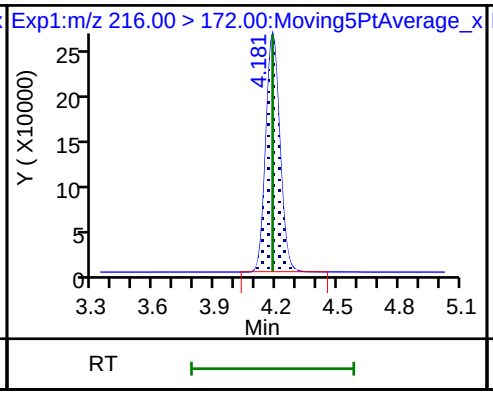
5 PFBA



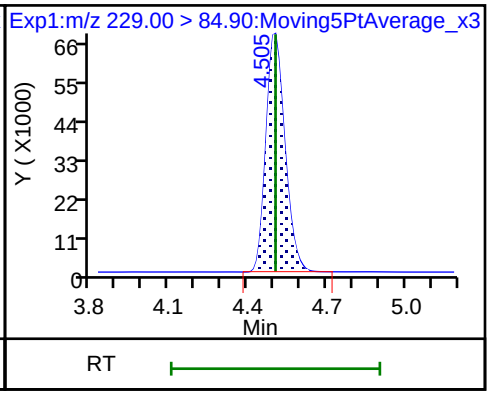
D 3 13C4-PFBA



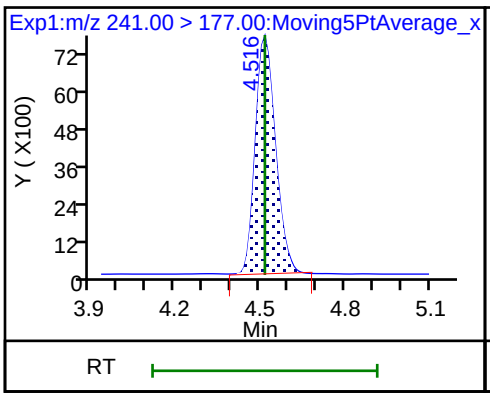
* 4 13C3PFBA



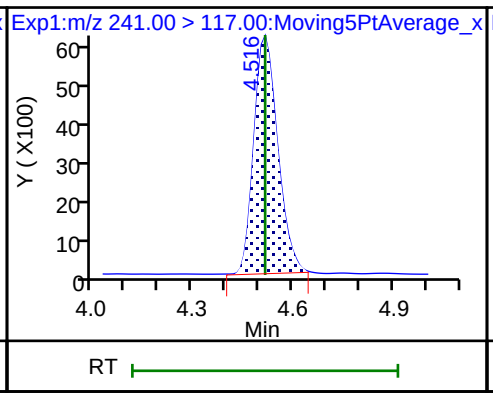
6 PFMPA



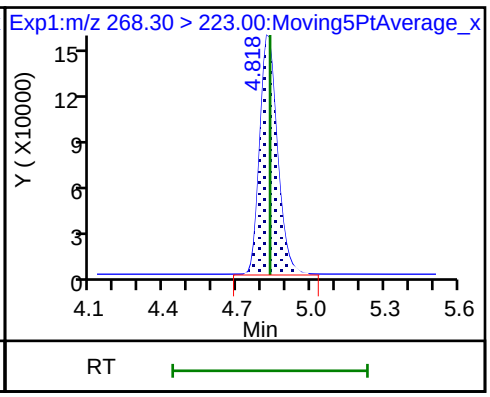
7 3:3 FTCA



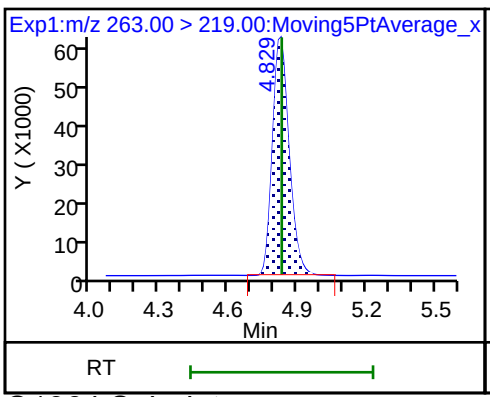
7 3:3 FTCA



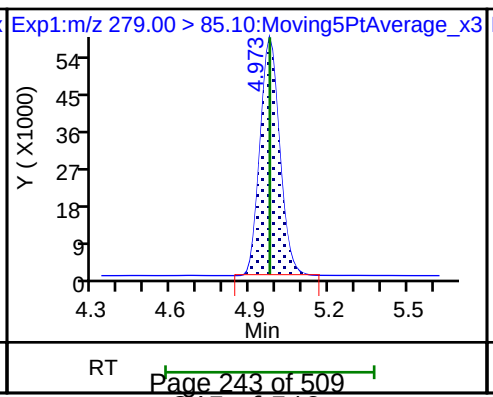
D 8 13C5 PFPeA



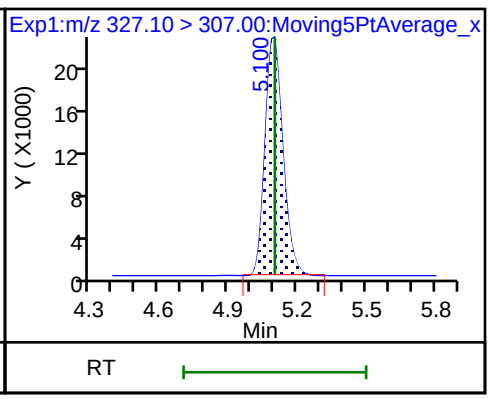
9 PFPA



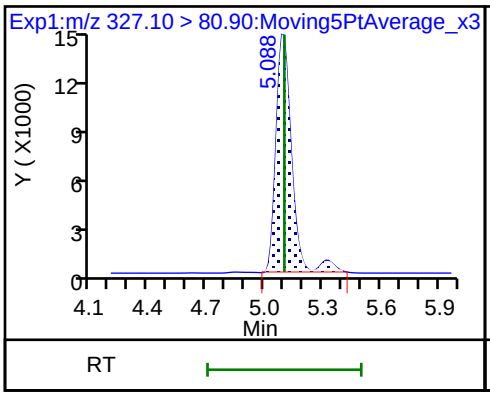
10 PFMBA



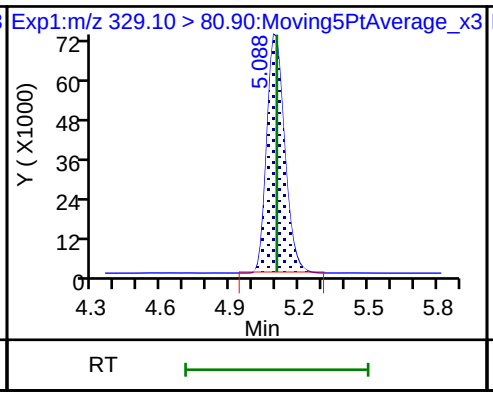
12 4:2FTS



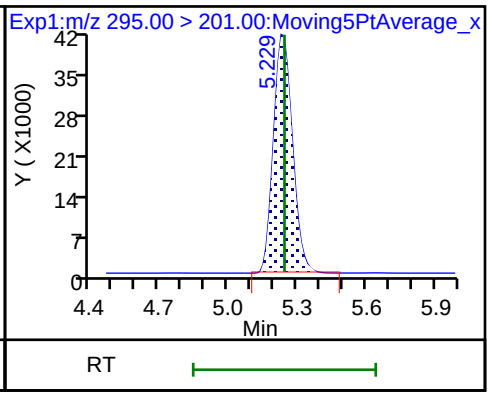
12 4:2FTS



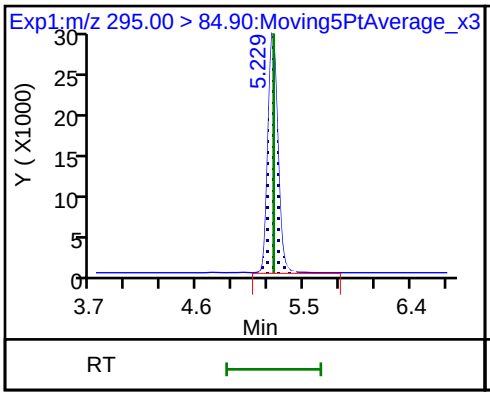
D 11 13C2-4:2FTS



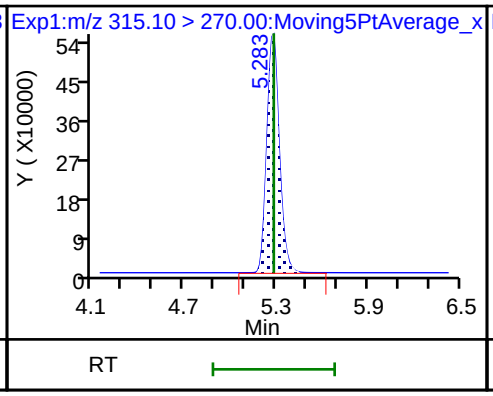
14 NFDHA



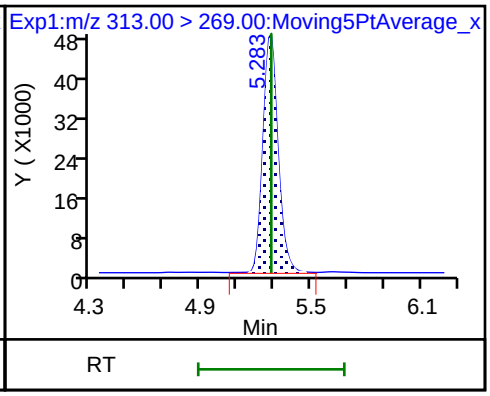
14 NFDHA



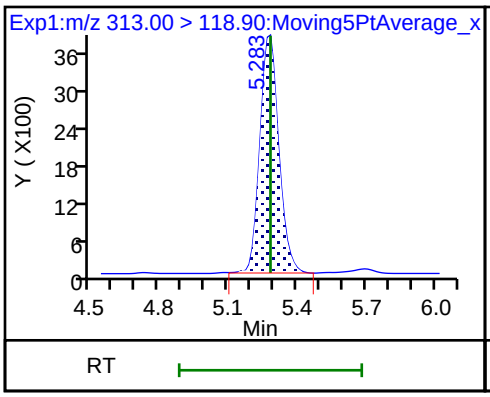
* 16 13C2 PFHxA



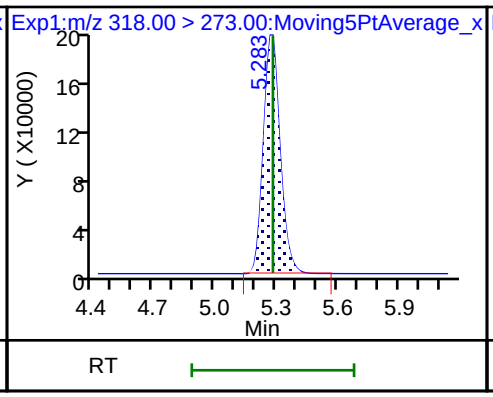
17 PFHxA



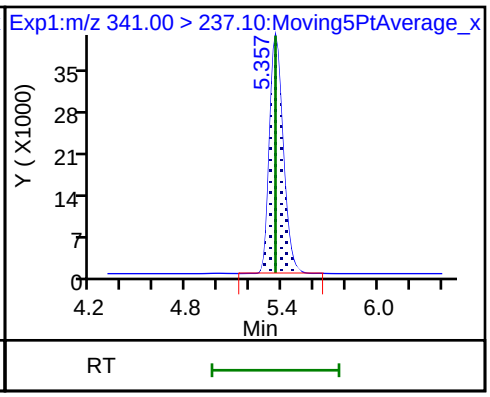
17 PFHxA



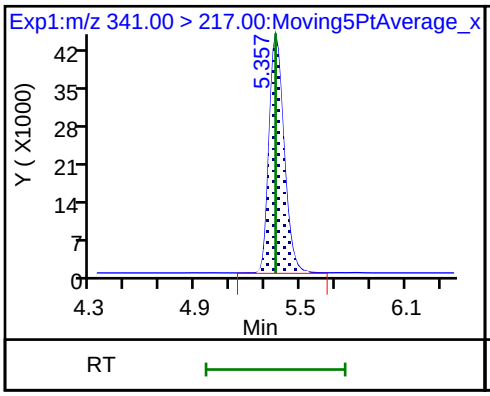
D 15 13C5 PFHxA



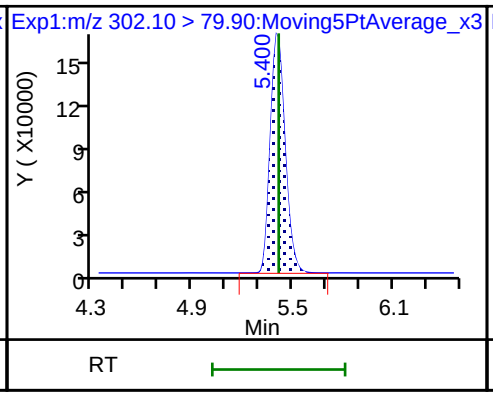
20 5:3 FTCA



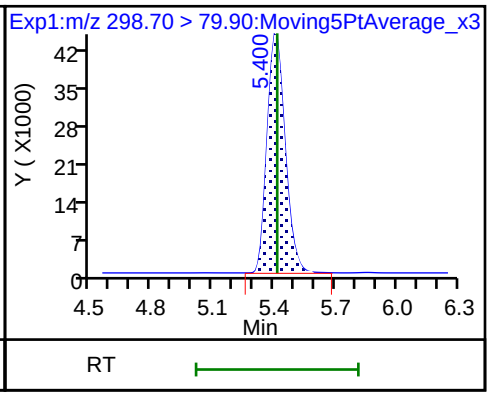
20 5:3 FTCA



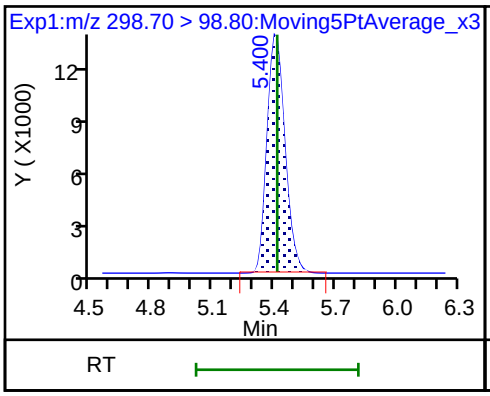
D 18 13C3 PFBS



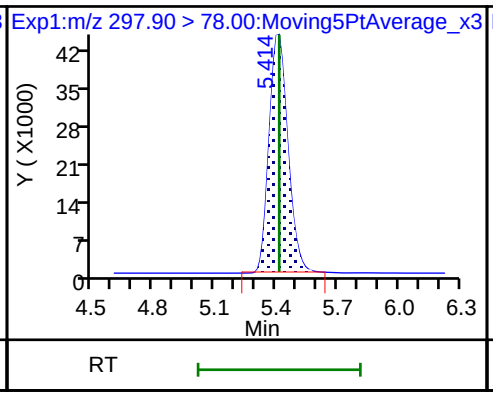
19 PFBS



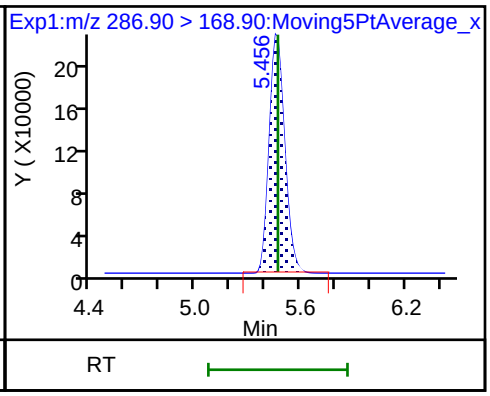
19 PFBS



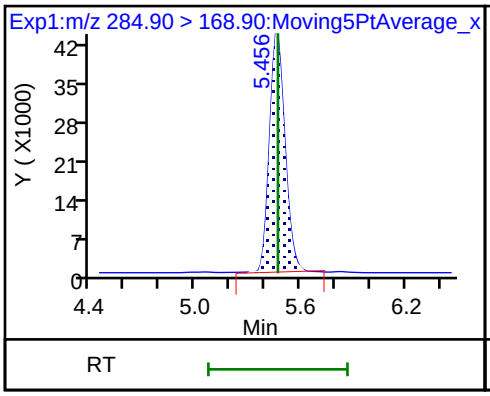
25 FBSA



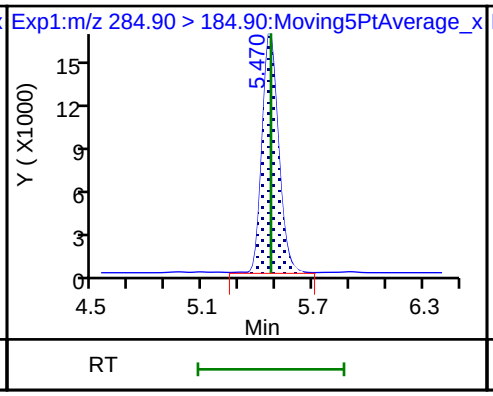
D 21 13C3 HFPO-DA



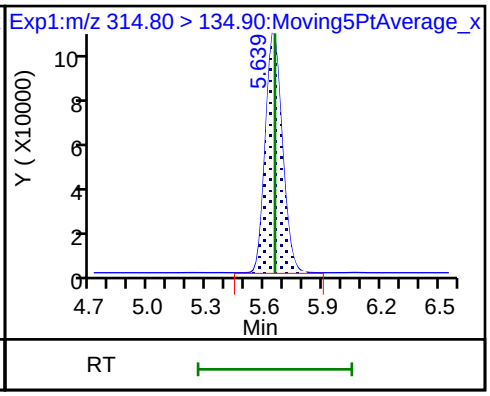
22 HFPO-DA



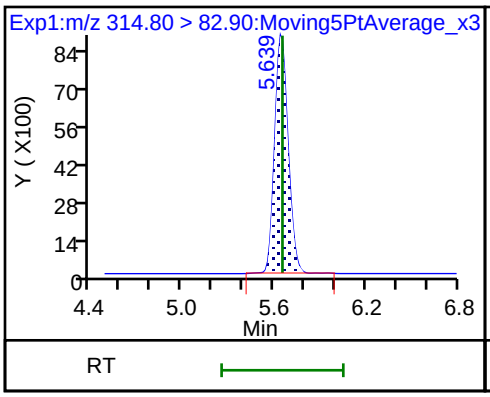
22 HFPO-DA



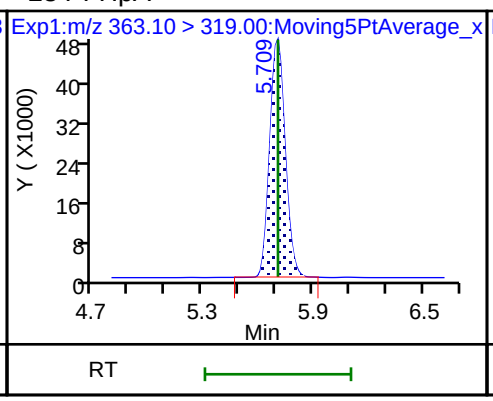
24 PFEESA



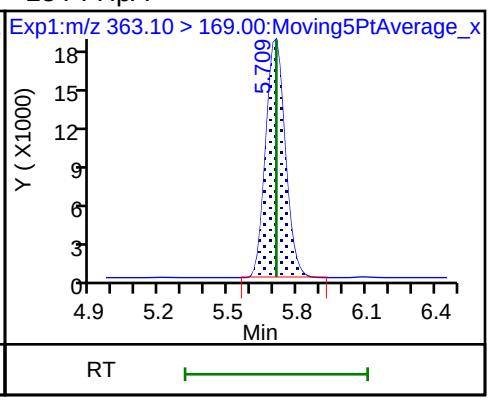
24 PFEESA



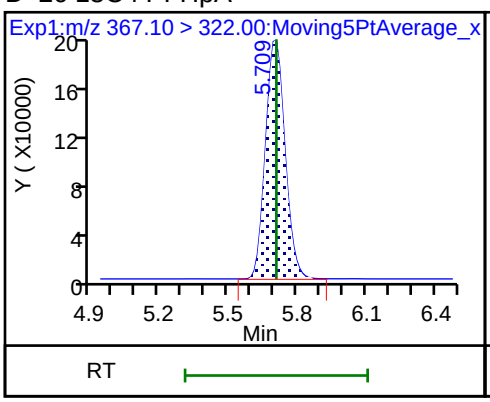
28 PFHpA



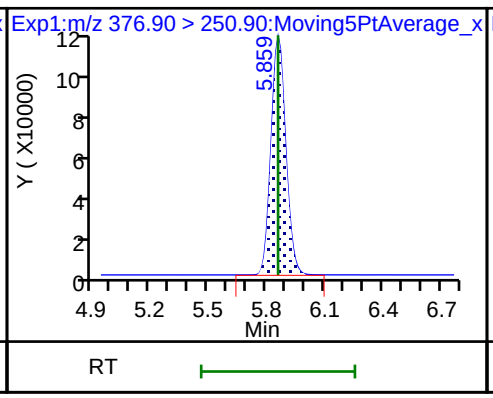
28 PFHpA



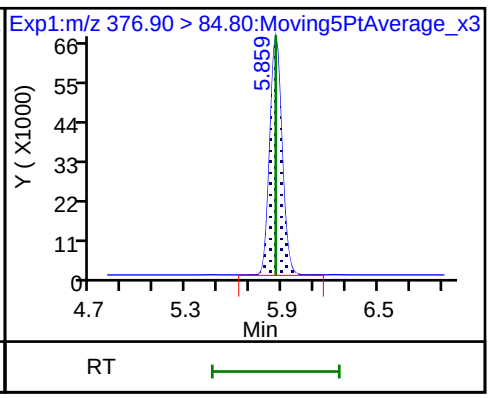
D 26 13C4 PFHpA



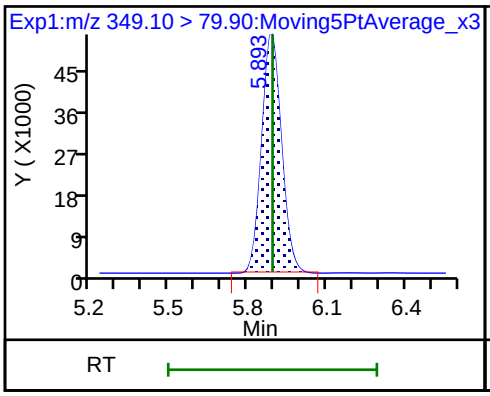
30 ADONA



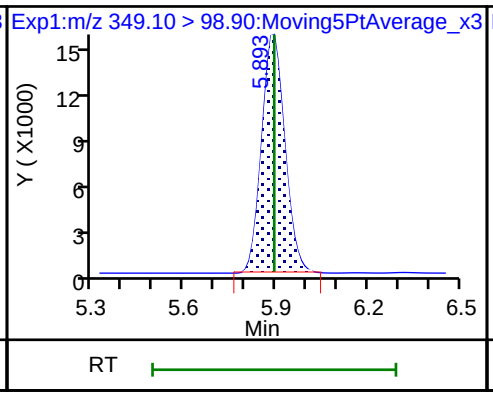
30 ADONA



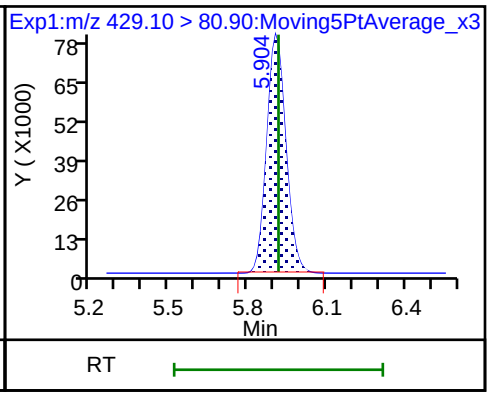
29 PFPeS



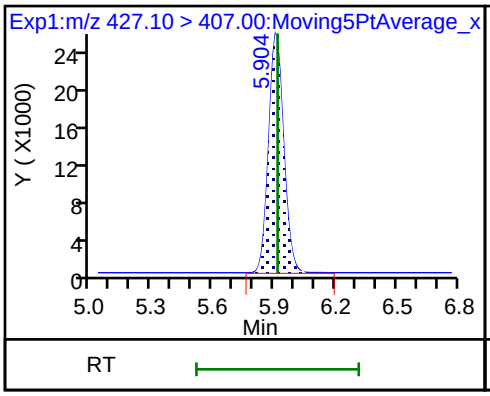
29 PFPeS



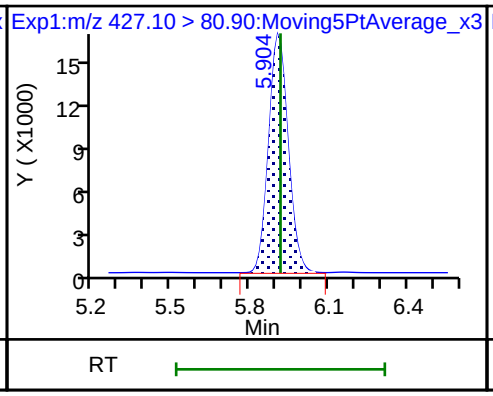
D 31 13C2-6:2FTS



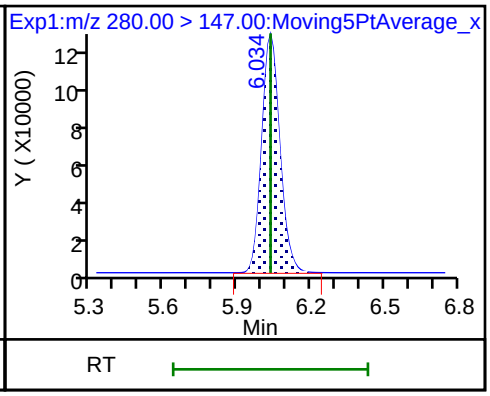
32 6:2FTS



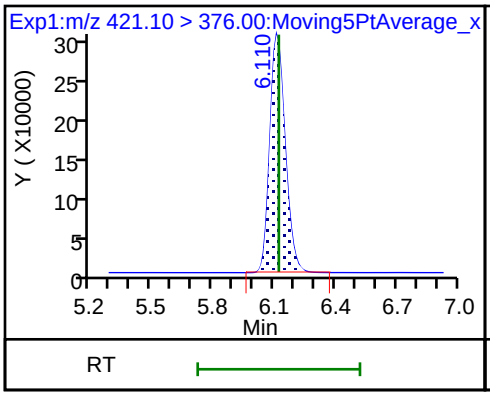
32 6:2FTS



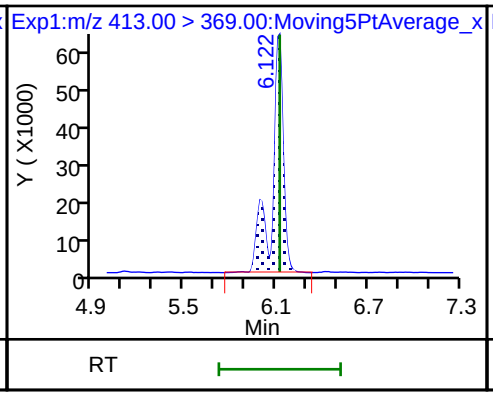
33 BTS



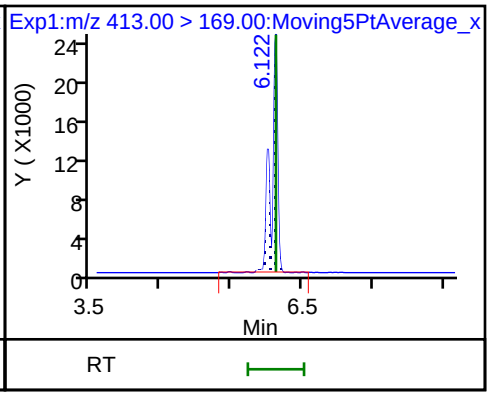
D 34 13C8 PFOA



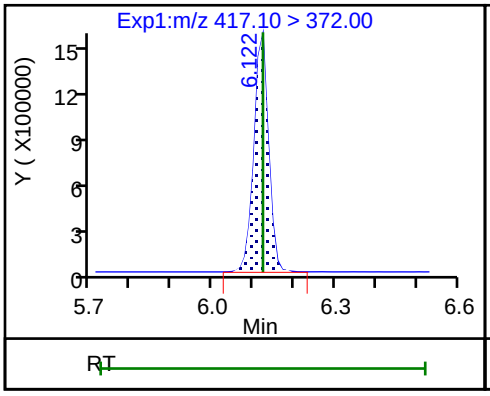
36 PFOA



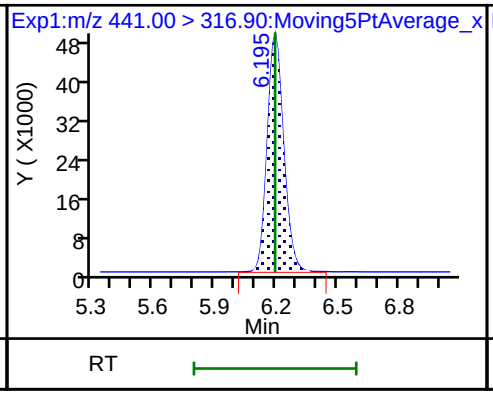
36 PFOA



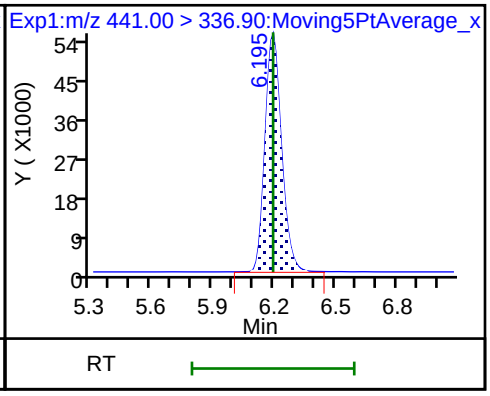
* 35 13C4 PFOA



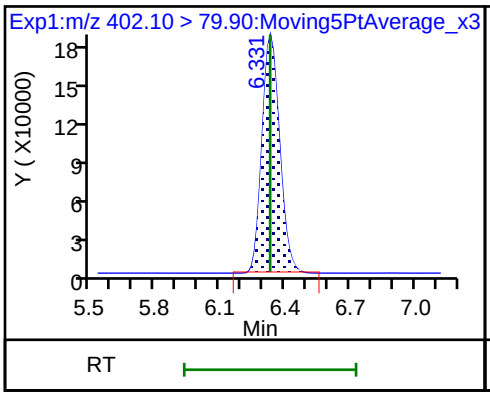
39 7:3 FTCA



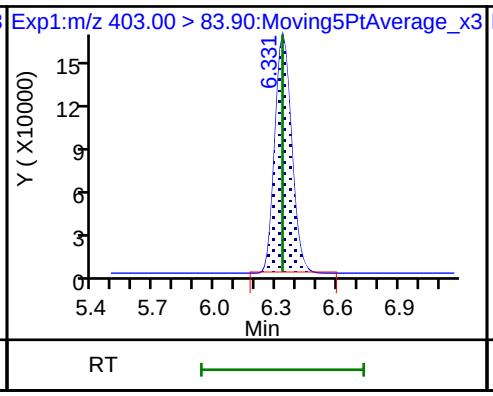
39 7:3 FTCA



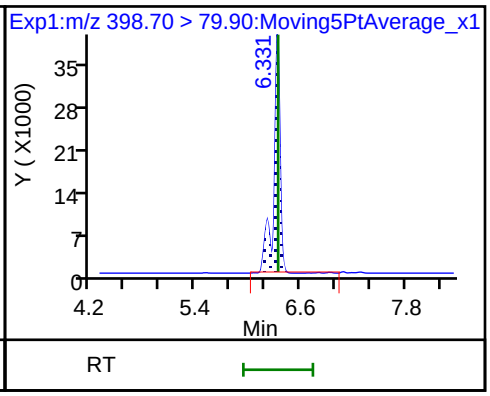
D 38 13C3 PFHxS



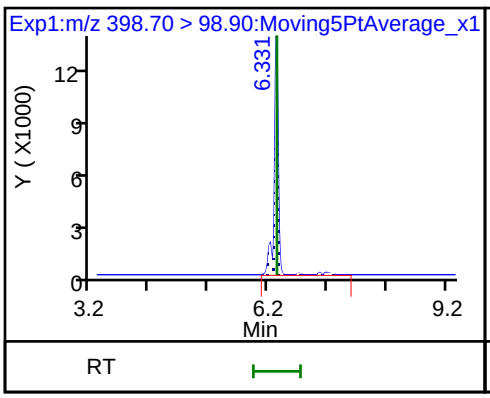
* 37 18O2 PFHxS



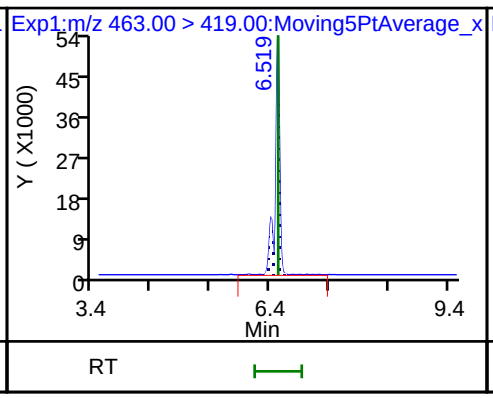
40 PFHxS



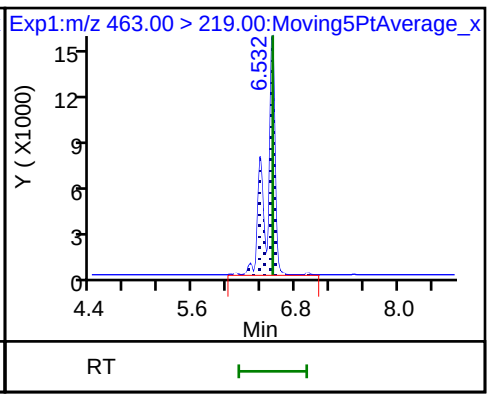
40 PFHxS



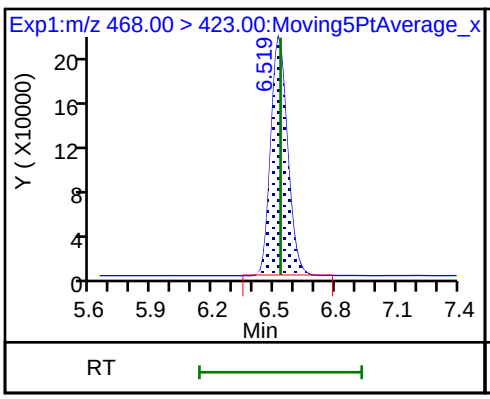
43 PFNA



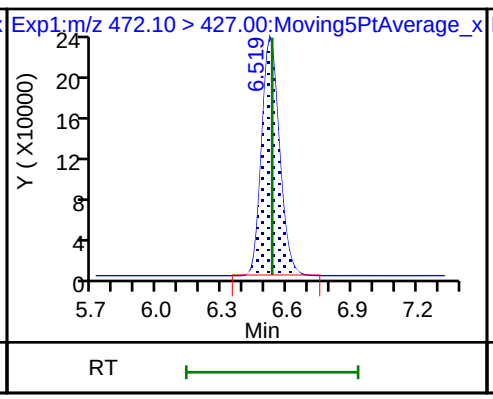
43 PFNA



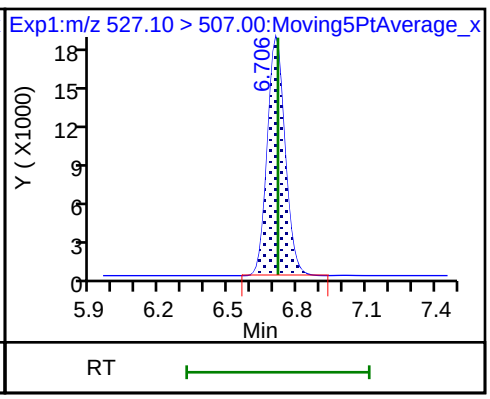
* 42 13C5 PFNA



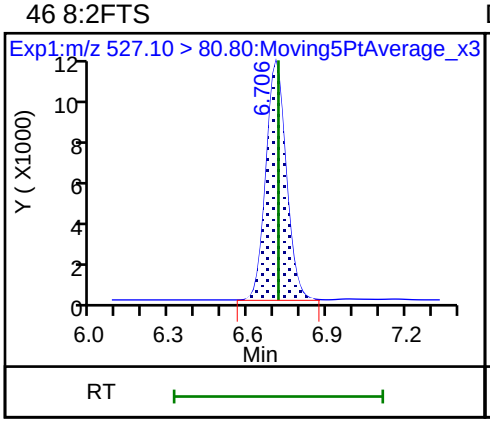
D 41 13C9 PFNA



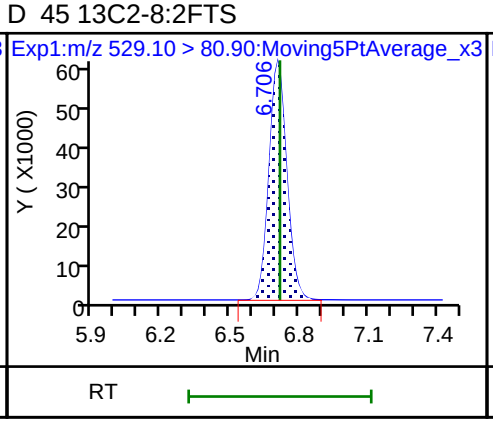
46 8:2FTS



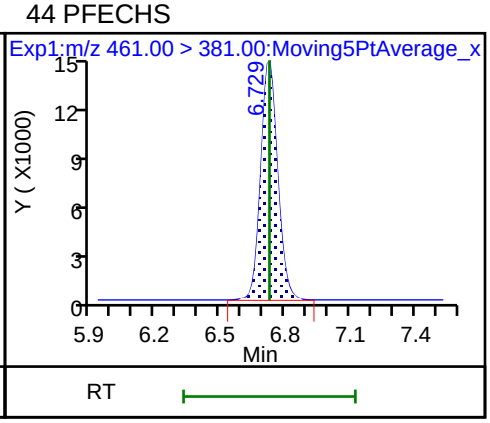
46 8:2FTS



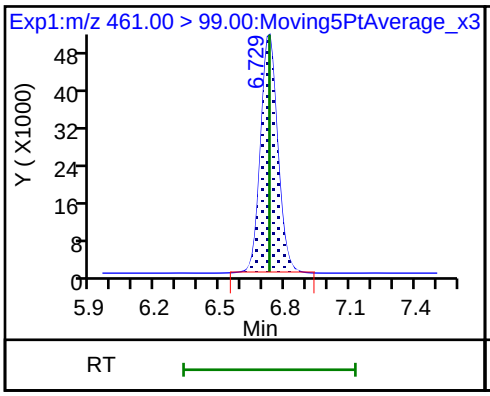
D 45 13C2-8:2FTS



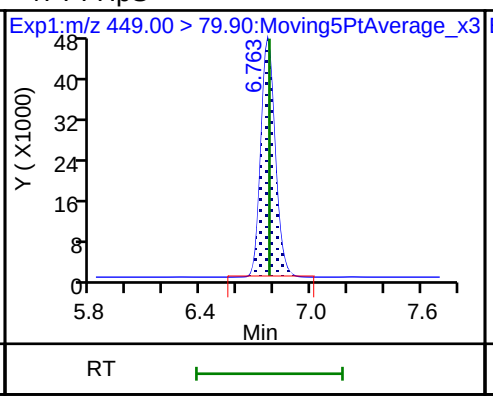
44 PFECHS



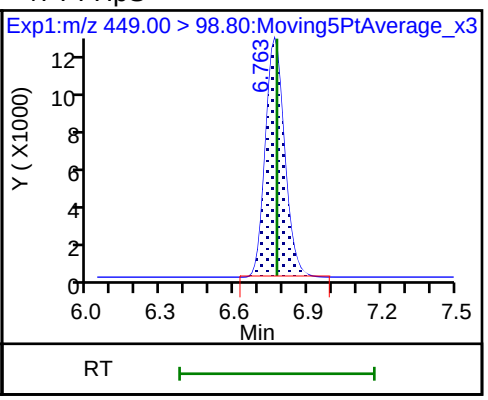
44 PFECHS



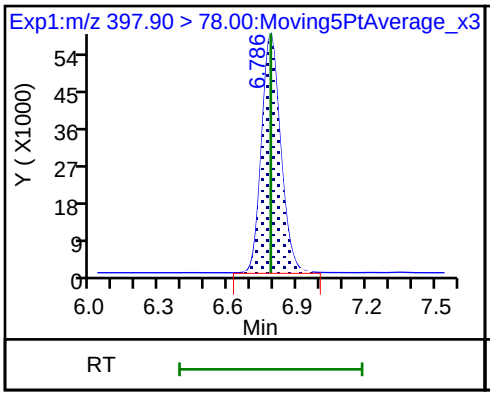
47 PFHpS



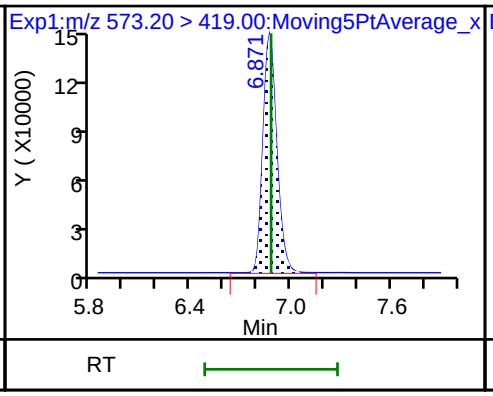
47 PFHpS



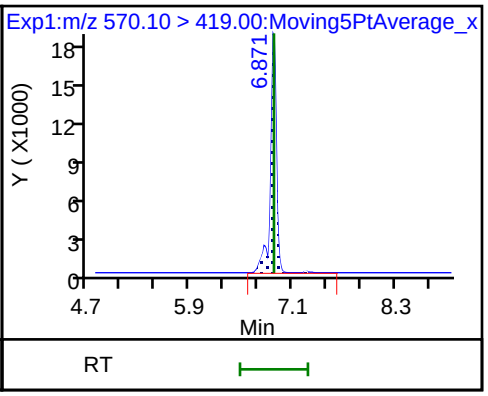
48 FHxSA



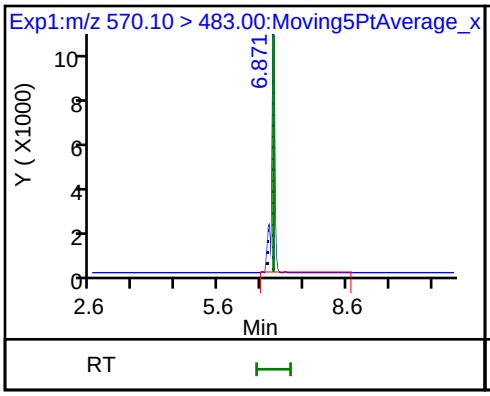
D 49 d3-NMeFOSAA



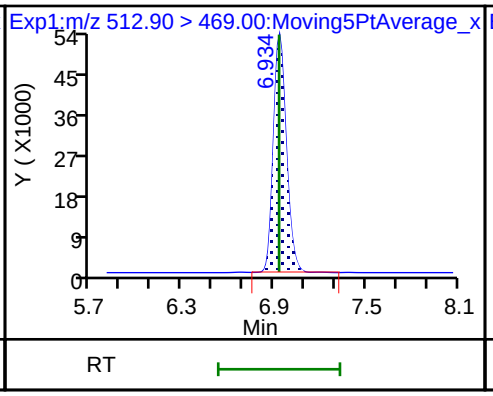
50 NMeFOSAA



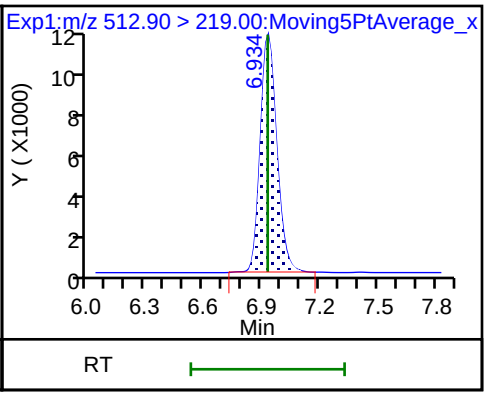
50 NMeFOSAA



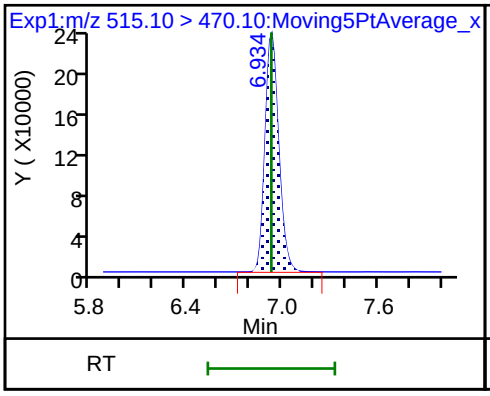
53 PFDA



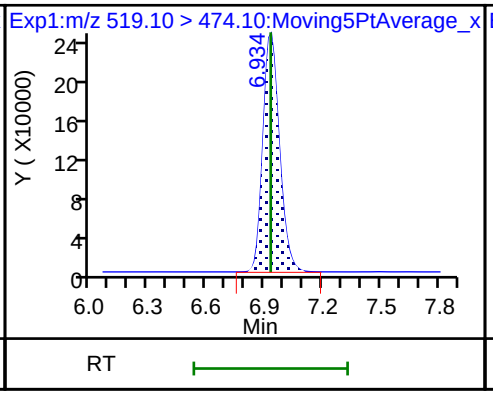
53 PFDA



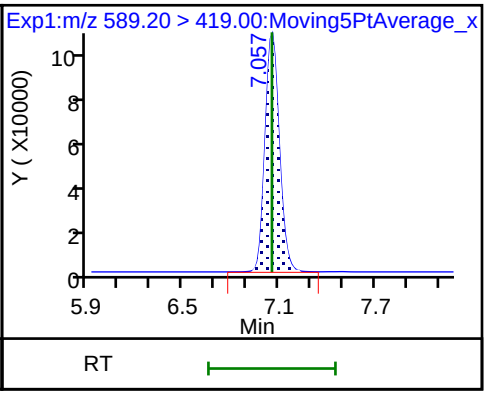
* 52 13C2 PFDA



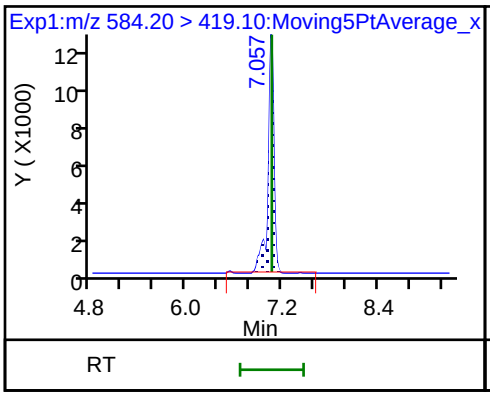
D 51 13C6 PFDA



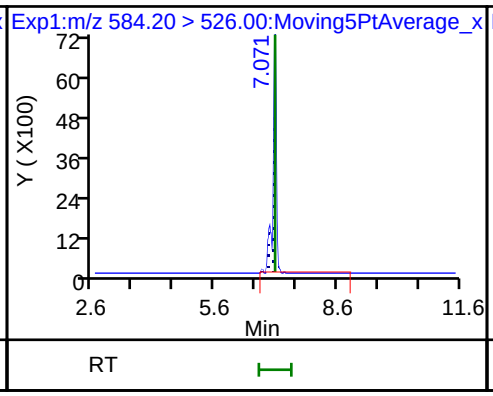
D 54 d5-NEtFOSAA



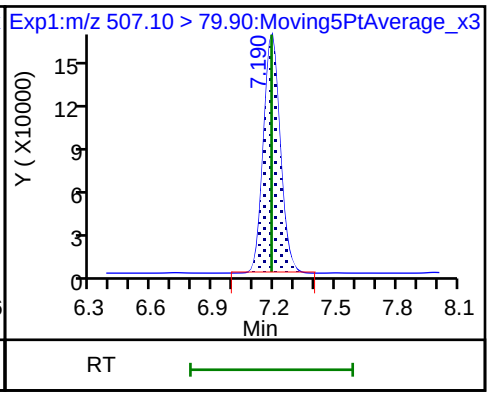
55 NEtFOSAA



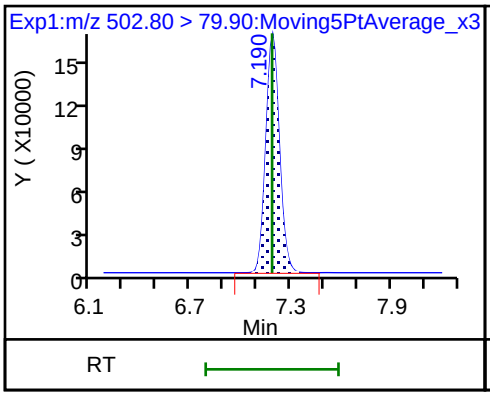
55 NEtFOSAA



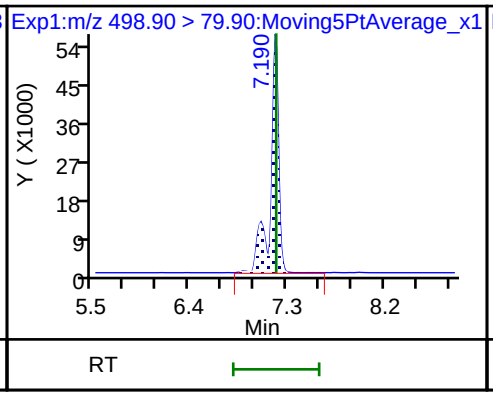
D 56 13C8 PFOS



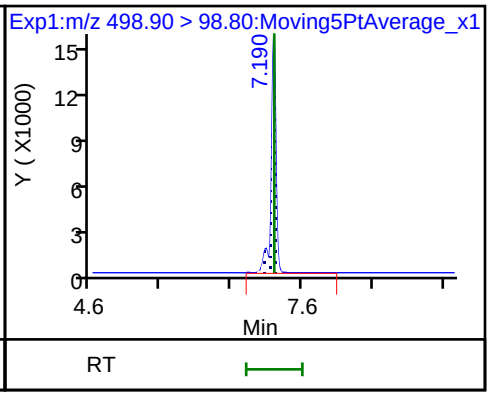
* 57 13C4 PFOS



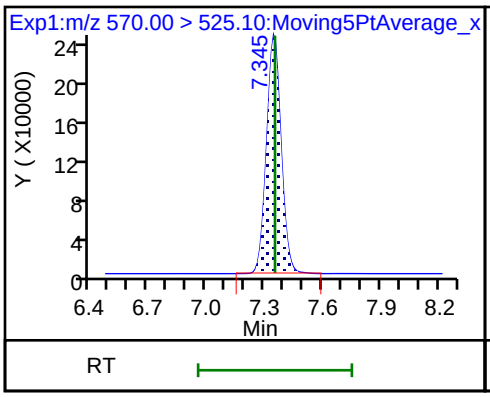
58 PFOS



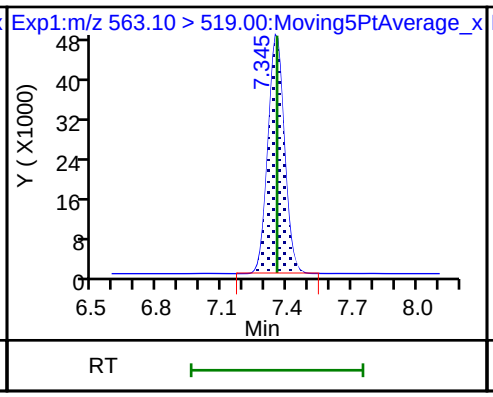
58 PFOS



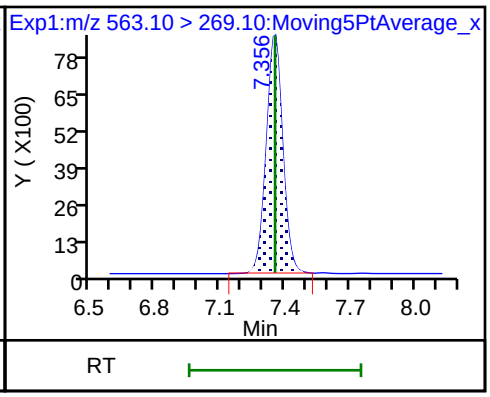
D 59 13C7 PFUnA



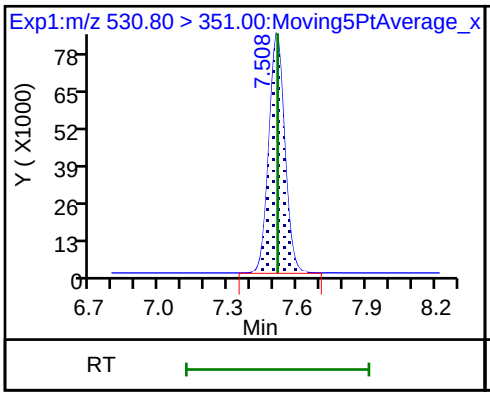
60 PFUnA



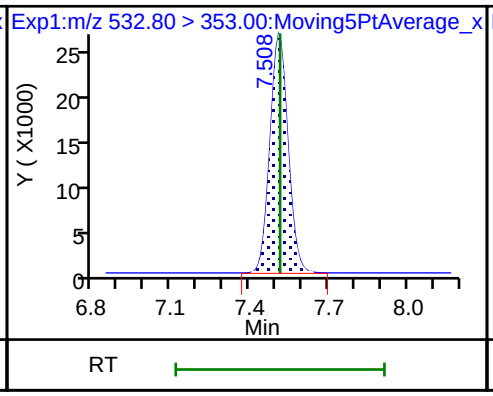
60 PFUnA



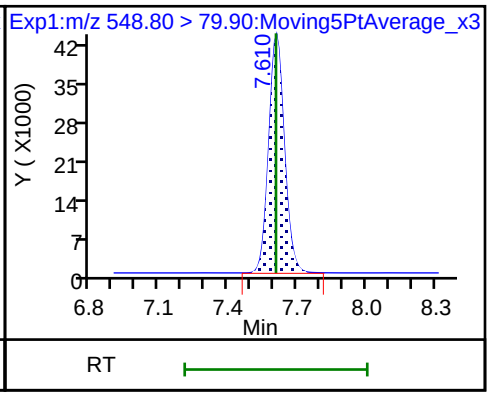
61 9ClFOS



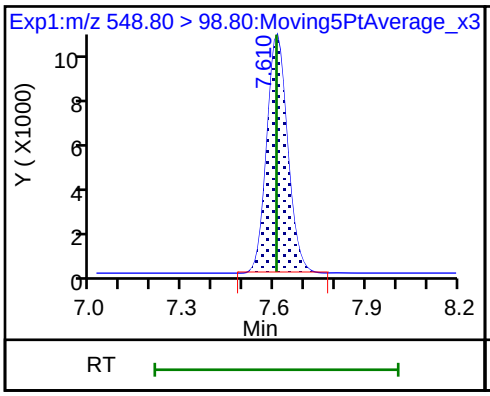
61 9ClFOS



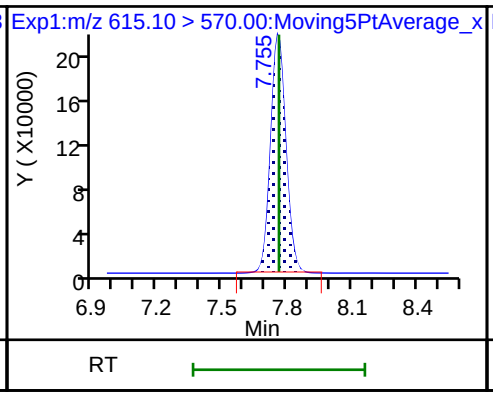
62 PFNS



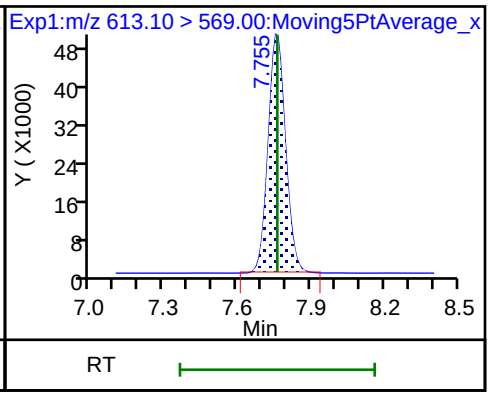
62 PFNS



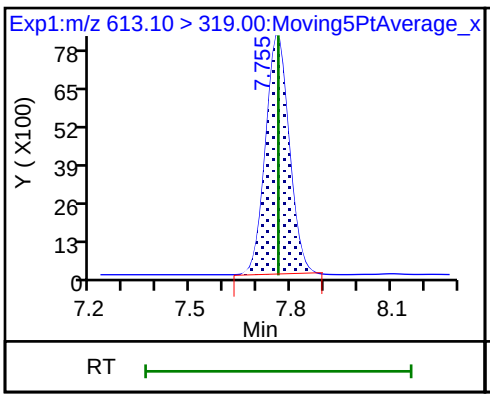
D 82 PFDoA



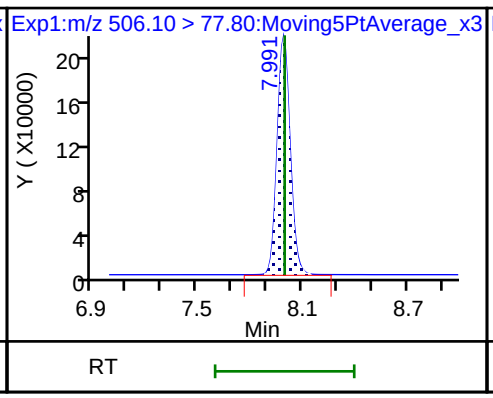
63 PFDoA



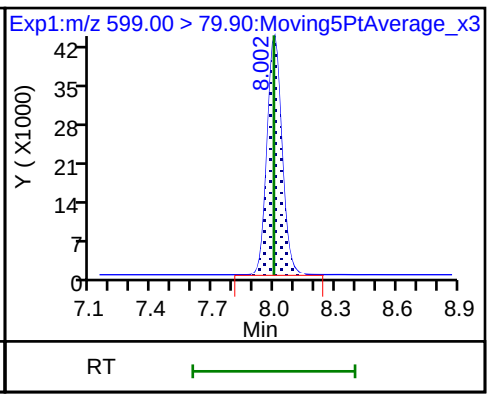
63 PFDoA



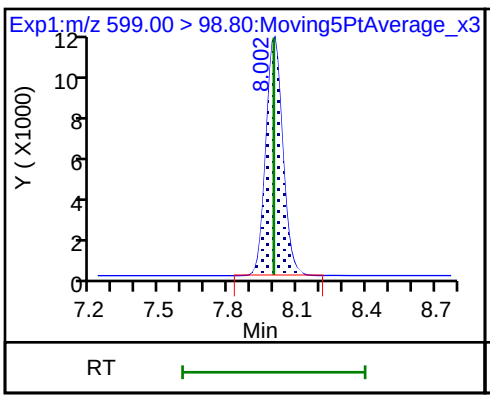
D 64 13C8 FOSA



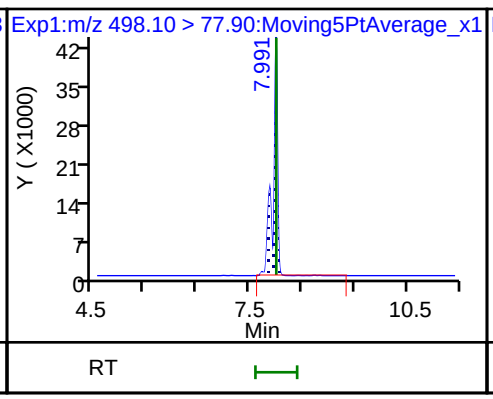
66 PFDS



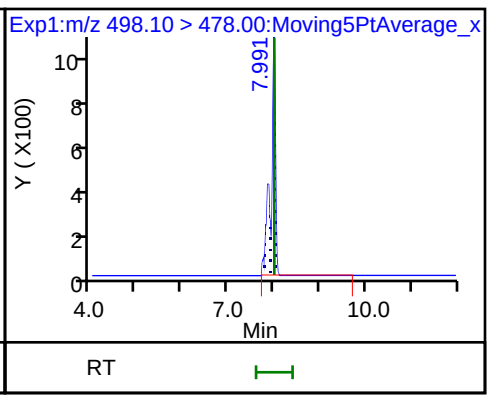
66 PFDS



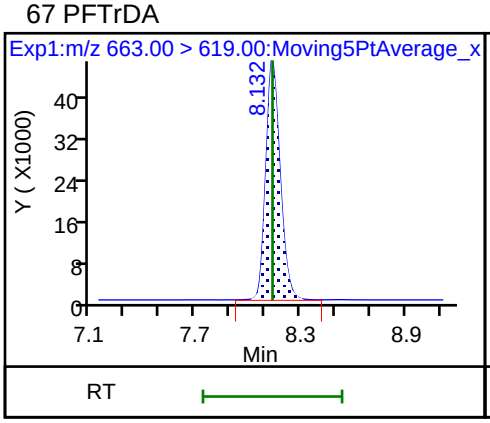
65 PFOSA



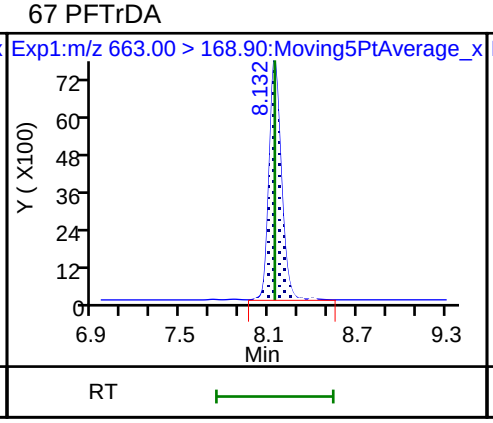
65 PFOSA



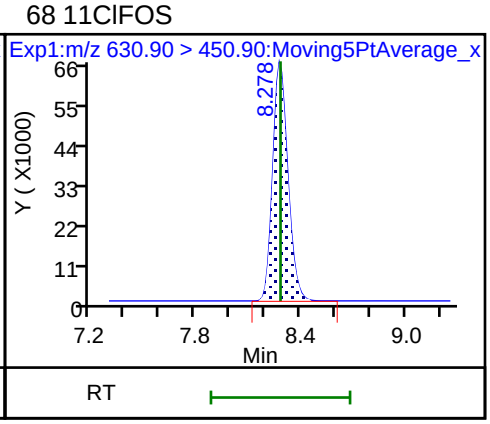
67 PFTrDA



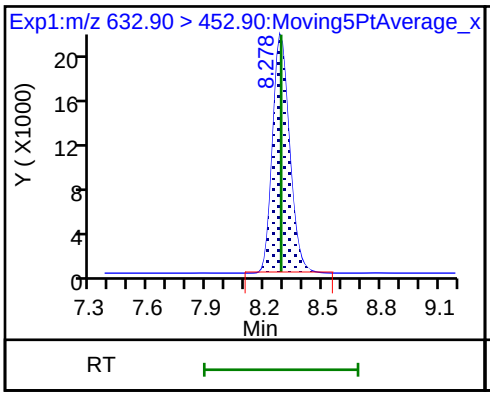
67 PFTrDA



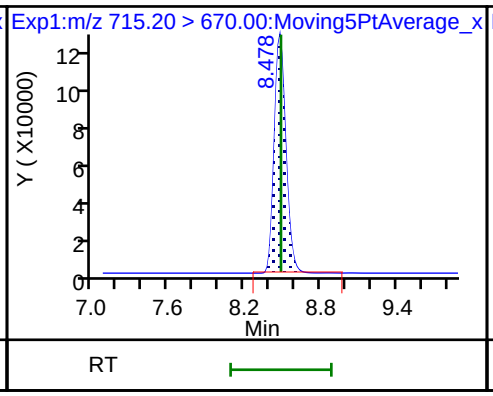
68 11ClFOS



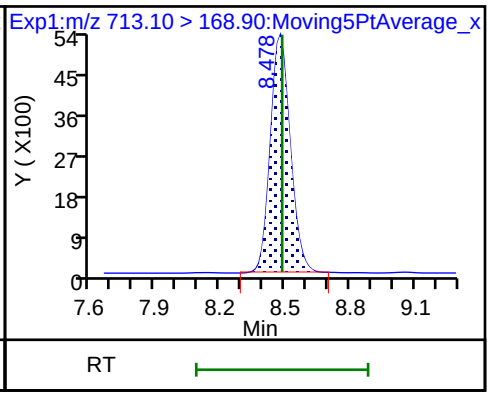
68 11ClFOS



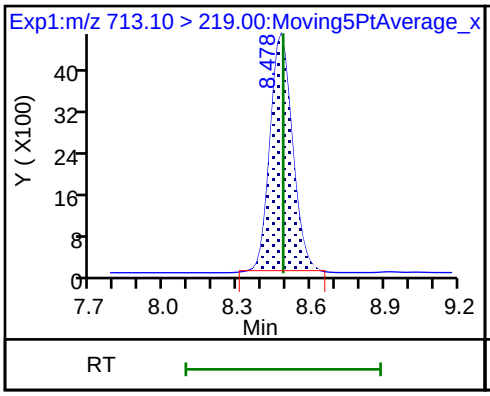
D 69 13C2 PFTeDA



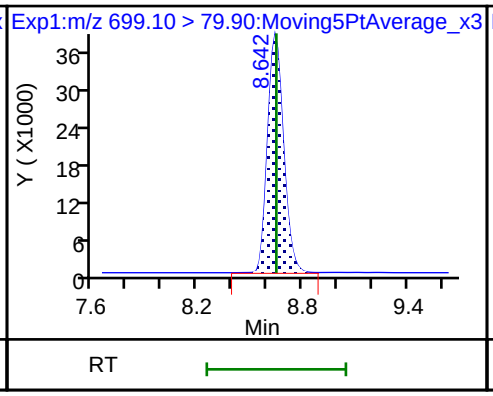
70 PFTeDA



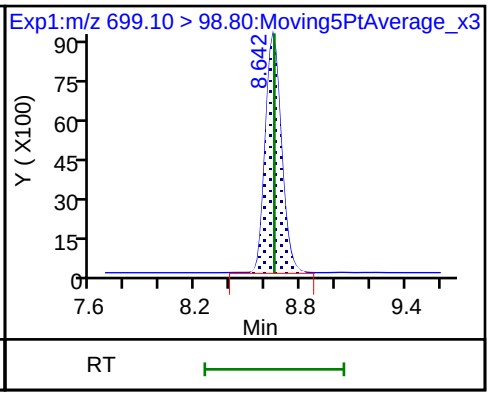
70 PFTeDA



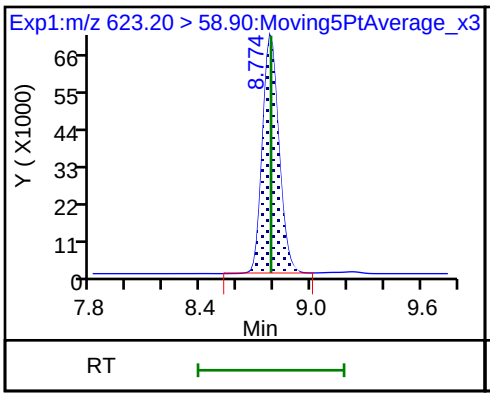
73 PFDoS



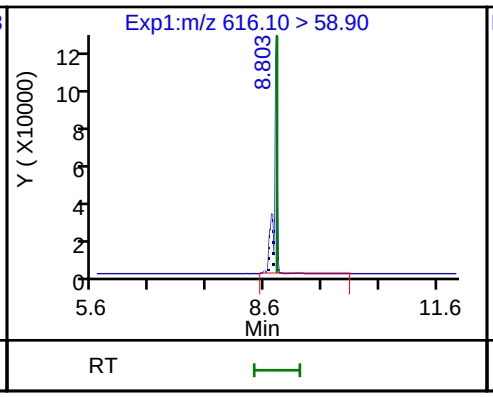
73 PFDoS



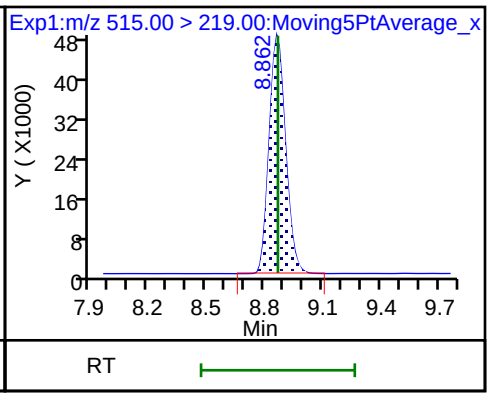
D 71 d7-N-Me-FOSE



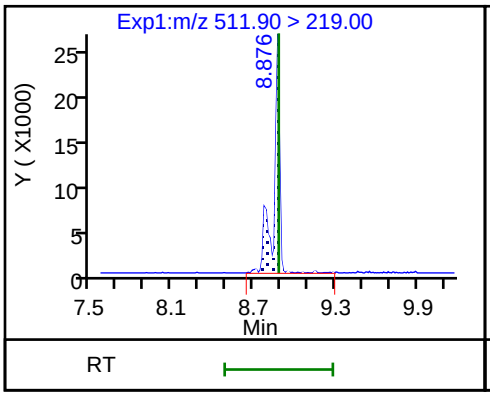
72 N-MeFOSE-M



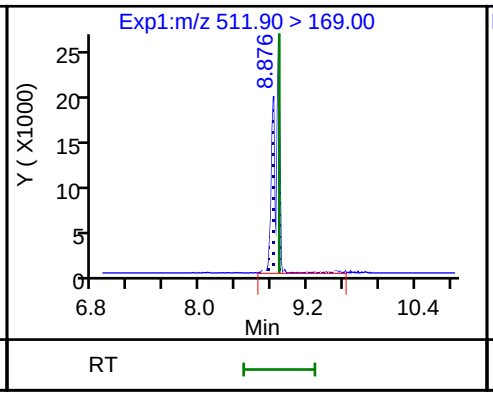
D 74 d3-NMePFOSA



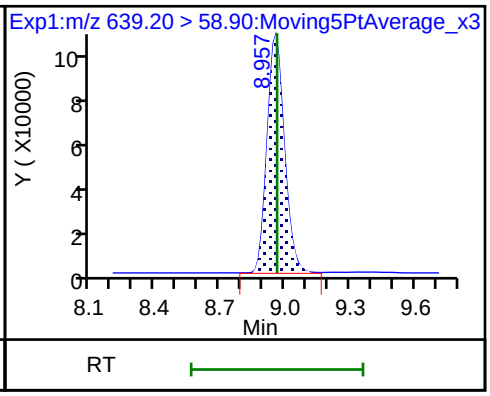
75 NMeFOSA



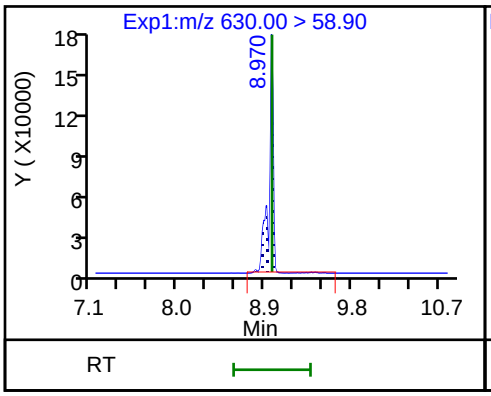
75 NMeFOSA



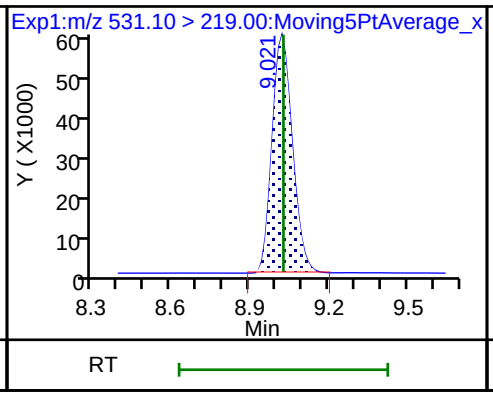
D 76 d9-N-EtFOSE



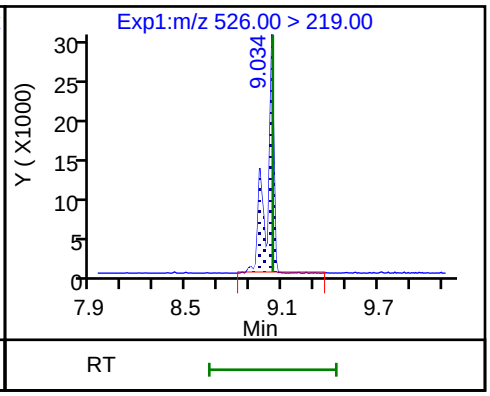
77 N-EtFOSE-M



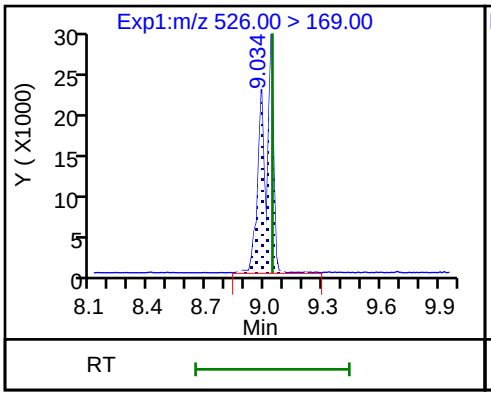
D 78 d5-NEtPFOSA



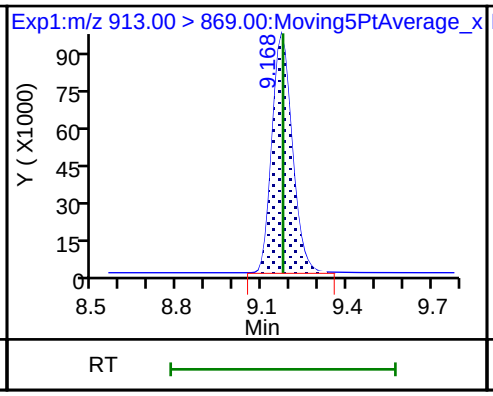
79 N-EtFOSA-M



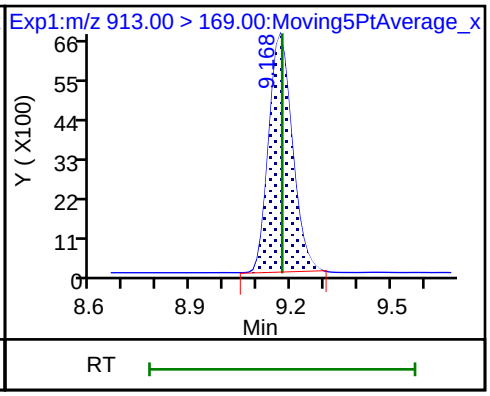
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-08.d
Lims ID: IC CAL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Feb-2025 13:26:13 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:38:33 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:40:21
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.054	2.054	0.0	1.004	1934896	5.23		105	7233	
D 1 13C3PFPrA										
166.00 > 121.00	2.046	2.054	-0.008	0.489	762933	1.89		94.4	16215	
5 PFBA										
212.80 > 168.90	4.173	4.181	-0.008	1.000	1250782	2.14		107	17854	
D 3 13C4-PFBA										
216.80 > 171.90	4.173	4.181	-0.008	0.998	1326688	1.96		98.2	69755	
* 4 13C3PFBA										
216.00 > 172.00	4.182	4.181	0.001		1264316	2.00			45024	
6 PFMPA										
229.00 > 84.90	4.494	4.504	-0.010	0.933	686147	1.04		104	34700	
7 3:3 FTCA										
241.00 > 177.00	4.505	4.516	-0.011	0.935	80791	2.27	Target=1.19	113	5412	
241.00 > 117.00	4.505	4.516	-0.011	0.935	66117		1.22(0.60-1.79)	113	4507	
D 8 13C5 PFPeA										
268.30 > 223.00	4.818	4.832	-0.014	0.912	765099	2.00		99.8	51168	
9 PFPA										
263.00 > 219.00	4.818	4.832	-0.014	1.000	623592	1.09		109	30944	
10 PFMBA										
279.00 > 85.10	4.972	4.975	-0.003	1.032	640868	1.06		106	41425	
12 4:2FTS										
327.10 > 307.00	5.100	5.102	-0.002	1.000	235021	1.99	Target=1.52	106	14578	
327.10 > 80.90	5.100	5.102	-0.002	1.000	147292		1.60(0.76-2.27)	106	8842	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.100	5.102	-0.002	0.806	373023	4.69		99.9	22911	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.241	5.244	-0.003	0.992	476332	1.06	Target=1.35	106	27611	
295.00 > 84.90	5.241	5.244	-0.003	0.992	342086		1.39(0.67-2.02)	106	19747	
* 16 13C2 PFHxA										
315.10 > 270.00	5.282	5.283	-0.001		3142700	5.00			138486	
17 PFHxA										
313.00 > 269.00	5.282	5.283	-0.001	1.000	540996	1.05	Target=11.80	105	23777	
313.00 > 118.90	5.282	5.283	-0.001	1.000	45305		11.94(5.90-17.70)	105	2642	
D 15 13C5 PFHxA										
318.00 > 273.00	5.282	5.283	-0.001	1.000	1107745	1.99		99.7	64682	
20 5:3 FTCA										
341.00 > 237.10	5.356	5.357	-0.001	1.014	460790	4.91	Target=1.01	98.2	26216	
341.00 > 217.00	5.356	5.357	-0.001	1.014	495037		0.93(0.50-1.51)	98.2	28159	
19 PFBS										
298.70 > 79.90	5.398	5.414	-0.016	1.000	514818	0.9379	Target=3.05	106	27846	
298.70 > 98.80	5.398	5.414	-0.016	1.000	169789		3.03(1.53-4.58)	106	9083	
25 FBSA										
297.90 > 78.00	5.398	5.414	-0.016	1.000	620817	1.07		107	24581	
D 18 13C3 PFBS										
302.10 > 79.90	5.398	5.414	-0.016	0.853	1039989	1.88		101	56430	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.455	5.470	-0.015	1.033	1319062	1.92		96.0	71039	
22 HFPO-DA										
284.90 > 168.90	5.469	5.470	-0.001	1.003	547545	0.8314	Target=2.44	111	22006	
284.90 > 184.90	5.469	5.470	-0.001	1.003	234962		2.33(1.22-3.66)	111	12636	
24 PFEESA										
314.80 > 134.90	5.638	5.653	-0.015	1.067	1493618	0.9858	Target=12.34	111	81810	
314.80 > 82.90	5.638	5.653	-0.015	1.067	116469		12.82(6.17-18.50)	111	6375	
28 PFHpA										
363.10 > 319.00	5.707	5.708	-0.001	1.000	546920	1.01	Target=2.64	101	31040	
363.10 > 169.00	5.707	5.708	-0.001	1.000	200069		2.73(1.32-3.96)	101	11414	
D 26 13C4 PFHpA										
367.10 > 322.00	5.707	5.708	-0.001	1.081	1136030	2.02		101	64847	
30 ADONA										
376.90 > 250.90	5.857	5.858	-0.001	1.074	1301455	1.03	Target=1.75	109	16270	
376.90 > 84.80	5.857	5.858	-0.001	1.074	757444		1.72(0.87-2.62)	109	47101	
29 PFPeS										
349.10 > 79.90	5.892	5.893	-0.001	0.931	510129	1.02	Target=3.14	109	31951	
349.10 > 98.90	5.892	5.893	-0.001	0.931	163763		3.12(1.57-4.71)	109	10169	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.903	5.916	-0.013	0.933	390651	4.68		98.4	25494	
32 6:2FTS										
427.10 > 407.00	5.903	5.916	-0.013	1.000	264037	2.01	Target=1.62	106	16986	
427.10 > 80.90	5.903	5.916	-0.013	1.000	170738		1.55(0.81-2.43)	106	10998	
33 BTS										
280.00 > 147.00	6.033	6.034	-0.001	0.953	1250330	1.05		108	80942	
D 34 13C8 PFOA										
421.10 > 376.00	6.109	6.122	-0.013	0.998	1584147	2.00		99.9	75021	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.121	6.122	-0.001	1.002	660238	1.04	Target=2.44	104	32878	
413.00 > 169.00	6.109	6.122	-0.013	1.000	277475		2.38(1.22-3.66)	104	48953	
* 35 13C4 PFOA										
417.10 > 372.00	6.121	6.122	-0.001		3714649	5.00			454259	
39 7:3 FTCA										
441.00 > 316.90	6.193	6.194	-0.001	1.173	580034	5.30	Target=0.91	106	26249	
441.00 > 336.90	6.193	6.194	-0.001	1.173	630998		0.92(0.45-1.36)	106	38073	
D 38 13C3 PFHxS										
402.10 > 79.90	6.329	6.330	-0.001	1.000	961270	1.86		97.9	56527	
* 37 18O2 PFHxS										
403.00 > 83.90	6.329	6.330	-0.001		955128	1.89			56218	
40 PFHxS										
398.70 > 79.90	6.329	6.343	-0.014	1.000	413223	0.9870	Target=3.16	108	83172	
398.70 > 98.90	6.329	6.343	-0.014	1.000	128270		3.22(1.58-4.74)	108	27688	
D 41 13C9 PFNA										
472.10 > 427.00	6.516	6.530	-0.014	1.000	1301890	1.94		97.2	57065	
43 PFNA										
463.00 > 419.00	6.530	6.530	0.0	1.002	569929	1.06	Target=2.70	106	56290	
463.00 > 219.00	6.530	6.530	0.0	1.002	216935		2.63(1.35-4.05)	106	33642	
* 42 13C5 PFNA										
468.00 > 423.00	6.516	6.530	-0.014		1308375	2.00			57519	
46 8:2FTS										
527.10 > 507.00	6.704	6.715	-0.011	1.000	200414	2.05	Target=1.71	107	12580	
527.10 > 80.80	6.704	6.715	-0.011	1.000	129869		1.54(0.86-2.57)	107	8095	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.704	6.715	-0.011	1.059	337459	4.69		97.8	20695	
44 PFECHS										
461.00 > 381.00	6.715	6.727	-0.012	1.061	157595	0.9581	Target=0.29	104	9683	
461.00 > 99.00	6.715	6.727	-0.012	1.061	568921		0.28(0.14-0.43)	104	34698	
47 PFHpS										
449.00 > 79.90	6.761	6.773	-0.012	0.941	472654	1.01	Target=3.62	106	29407	
449.00 > 98.80	6.761	6.773	-0.012	0.941	137038		3.45(1.81-5.43)	106	8491	
48 FHxSA										
397.90 > 78.00	6.784	6.784	0.0	1.072	685998	1.12		112	40149	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.867	6.880	-0.013	0.956	753832	4.86		97.3	44478	
50 NMeFOSAA										
570.10 > 419.00	6.880	6.880	0.0	1.002	166342	1.10	Target=1.87	110	35458	
570.10 > 483.00	6.867	6.880	-0.013	1.000	86484		1.92(0.93-2.80)	110	16024	
53 PFDA										
512.90 > 469.00	6.930	6.931	-0.001	1.000	607309	1.09	Target=5.46	109	34639	
512.90 > 219.00	6.930	6.931	-0.001	1.000	110520		5.50(2.73-8.19)	109	6250	
* 52 13C2 PFDA										
515.10 > 470.10	6.930	6.931	-0.001		1303878	2.00			55332	
D 51 13C6 PFDA										
519.10 > 474.10	6.930	6.931	-0.001	1.000	1288792	1.87		93.7	54167	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.053	7.053	0.0	0.982	648217	5.10		102	34598	
55 NEtFOSAA										
584.20 > 419.10	7.053	7.067	-0.014	1.000	112574	0.9723	Target=1.40	97.2	22551	
584.20 > 526.00	7.053	7.067	-0.014	1.000	82549		1.36(0.70-2.10)	97.2	14342	
D 56 13C8 PFOS										
507.10 > 79.90	7.186	7.186	0.0	1.000	839137	1.84		96.4	20839	
* 57 13C4 PFOS										
502.80 > 79.90	7.186	7.186	0.0		850437	1.91			49565	
58 PFOS										
498.90 > 79.90	7.186	7.198	-0.012	1.000	554257	0.99	Target=4.24	107	105187	
498.90 > 98.80	7.186	7.198	-0.012	1.000	140496		3.95(2.12-6.36)	107	30521	
D 59 13C7 PFUnA										
570.00 > 525.10	7.342	7.353	-0.011	1.059	1252173	1.95		97.6	78958	
60 PFUnA										
563.10 > 519.00	7.342	7.353	-0.011	1.000	516066	1.02	Target=5.76	102	32500	
563.10 > 269.10	7.342	7.353	-0.011	1.000	83673		6.17(2.88-8.63)	102	5252	
61 9ClFOS										
530.80 > 351.00	7.505	7.514	-0.009	1.376	797979	0.99	Target=3.18	106	55644	
532.80 > 353.00	7.505	7.514	-0.009	1.376	248839		3.21(1.59-4.77)	106	17513	
62 PFNS										
548.80 > 79.90	7.607	7.607	0.0	1.059	395959	1.04	Target=3.81	108	28006	
548.80 > 98.80	7.607	7.607	0.0	1.059	111200		3.56(1.90-5.71)	108	7831	
D 82 PFDoA										
615.10 > 570.00	7.752	7.762	-0.010	1.119	1071467	1.99		99.3	72762	
63 PFDoA										
613.10 > 569.00	7.752	7.762	-0.010	1.000	523911	1.04	Target=6.16	104	35473	
613.10 > 319.00	7.752	7.762	-0.010	1.000	83902		6.24(3.08-9.25)	104	5773	
D 64 13C8 FOSA										
506.10 > 77.80	7.987	7.997	-0.010	1.111	1084693	2.00		99.9	52173	
66 PFDS										
599.00 > 79.90	7.997	7.997	0.0	1.113	445821	1.09	Target=3.75	113	29303	
599.00 > 98.80	7.997	7.997	0.0	1.113	113535		3.93(1.87-5.62)	113	7453	
65 PFOSA										
498.10 > 77.90	7.987	7.997	-0.010	1.000	497290	1.02	Target=46.29	102	87132	
498.10 > 478.00	7.987	7.997	-0.010	1.000	12451		39.94(23.15-69.44)	102	2128	
67 PFTrDA										
663.00 > 619.00	8.128	8.139	-0.011	0.959	549520	1.07	Target=5.80	107	32789	
663.00 > 168.90	8.128	8.139	-0.011	0.959	96139		5.72(2.90-8.70)	107	5767	
68 11ClFOS										
630.90 > 450.90	8.271	8.285	-0.014	1.516	753348	0.99	Target=3.09	105	40833	
632.90 > 452.90	8.271	8.285	-0.014	1.516	243264		3.10(1.55-4.64)	105	13230	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.472	8.486	-0.014	1.222	717373	1.88		94.0	37622	
70 PFTeDA										
713.10 > 168.90	8.472	8.486	-0.014	1.000	68257	1.09	Target=1.18	109	3594	
713.10 > 219.00	8.472	8.486	-0.014	1.000	60756		1.12(0.59-1.77)	109	3172	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.634	8.650	-0.016	1.202	490171	1.09	Target=4.45	112	25678	
699.10 > 98.80	8.634	8.650	-0.016	1.202	109331		4.48(2.23-6.68)	112	5747	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.781	8.781	0.0	1.222	417537	4.95		98.9	11177	
72 N-MeFOSE-M										
616.10 > 58.90	8.796	8.811	-0.015	1.002	832790	5.42		108	2739	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.868	8.868	0.0	1.234	287490	2.02		101	12066	
75 NMeFOSA										
511.90 > 219.00	8.868	8.882	-0.014	1.000	146219	0.9788	Target=0.73	97.9	795	
511.90 > 169.00	8.868	8.882	-0.014	1.000	202867		0.72(0.36-1.09)	97.9	48179	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.950	8.962	-0.012	1.246	559760	5.10		102	12564	
77 N-EtFOSE-M										
630.00 > 58.90	8.976	8.975	0.001	1.003	1090254	5.34		107	3764	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.014	9.027	-0.013	1.254	324669	2.02		101	14864	
79 N-EtFOSA-M										
526.00 > 219.00	9.027	9.040	-0.013	1.001	176499	1.01	Target=0.82	101	54479	
526.00 > 169.00	9.027	9.040	-0.013	1.001	216750		0.81(0.41-1.22)	101	59221	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.162	9.174	-0.012	1.081	984436	1.08	Target=14.83	108	39871	
913.00 > 169.00	9.162	9.174	-0.012	1.081	65226		15.09(7.41-22.24)	108	4421	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00027 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:38:34 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-08.d

Injection Date: 12-Feb-2025 13:26:13 Instrument ID: 30576

Lims ID: IC CAL 4

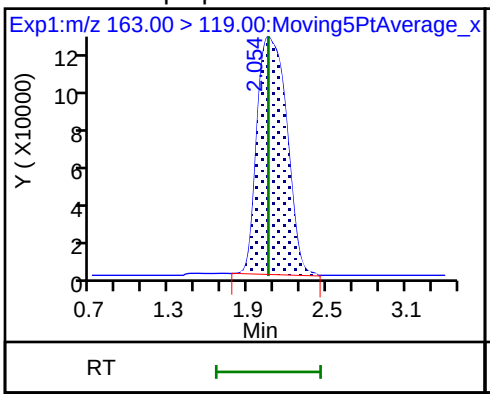
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 5 Worklist Smp#: 4

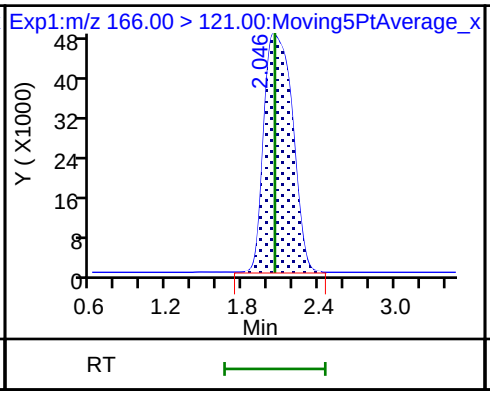
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

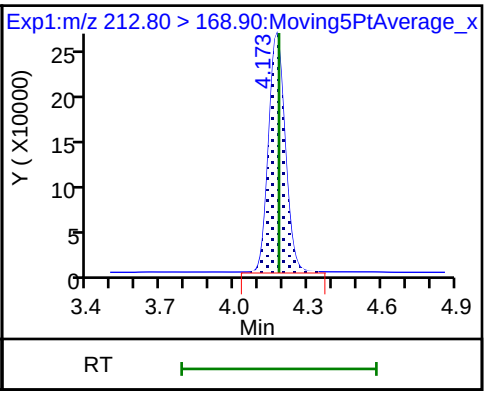
2 Perfluoropropionic acid



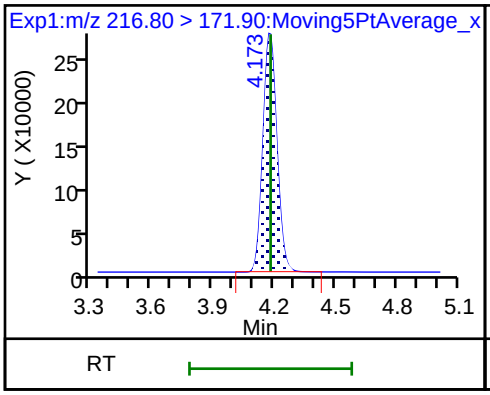
D 1 13C3PFPrA



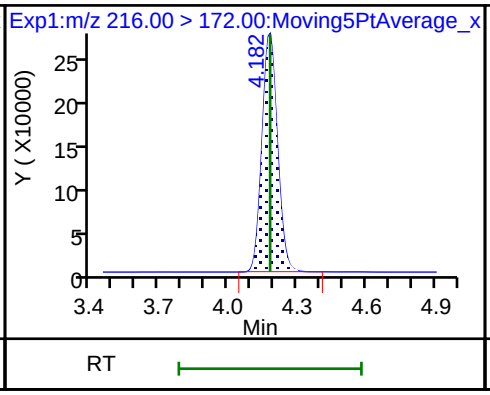
5 PFBA



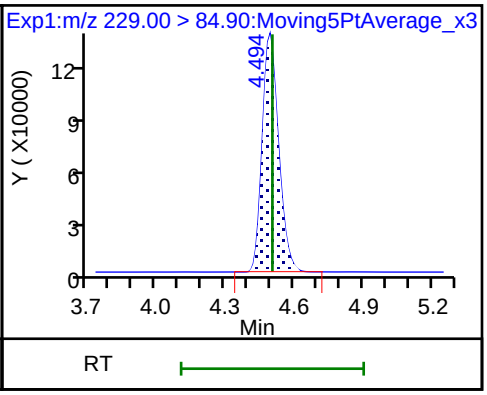
D 3 13C4-PFBA



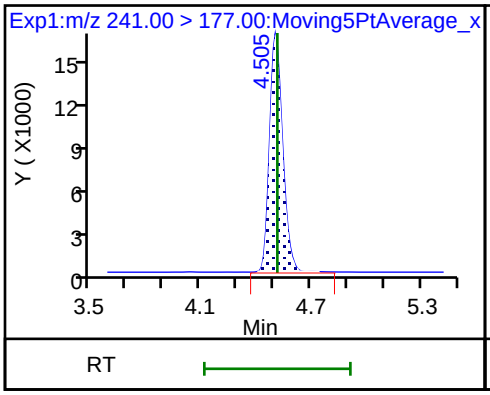
* 4 13C3PFBA



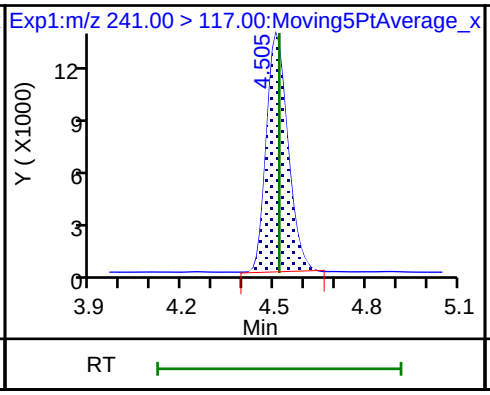
6 PFMPA



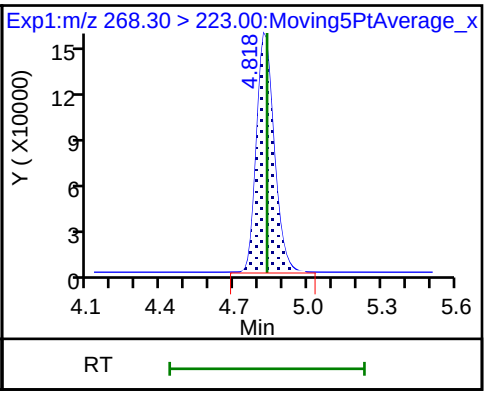
7 3:3 FTCA



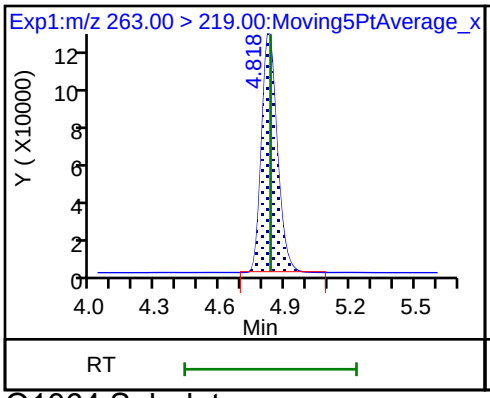
7 3:3 FTCA



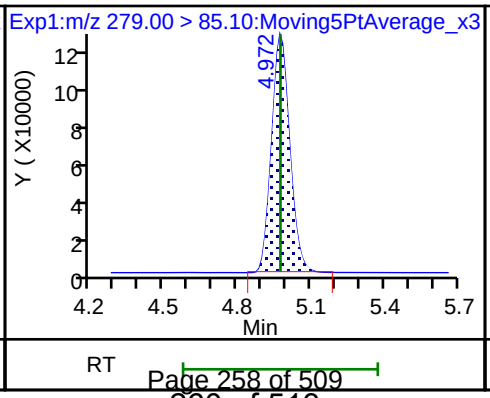
D 8 13C5 PFPeA



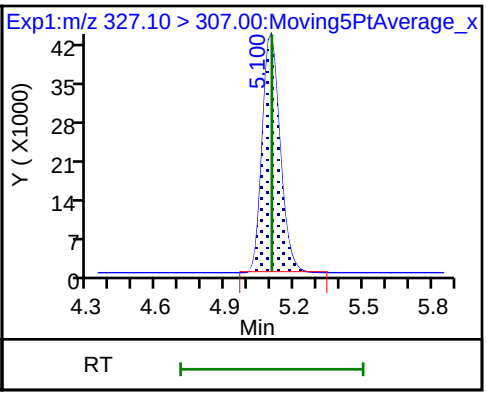
9 PFPA



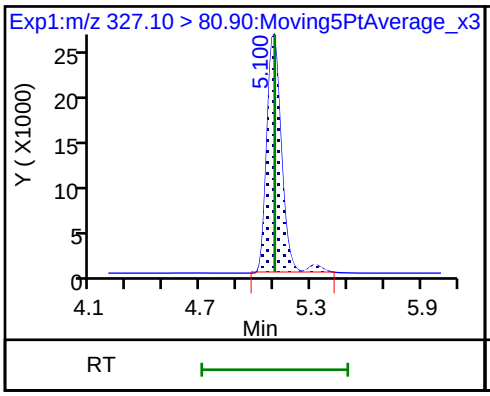
10 PFMBA



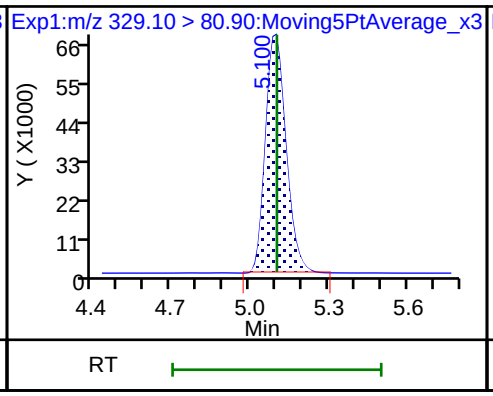
12 4:2FTS



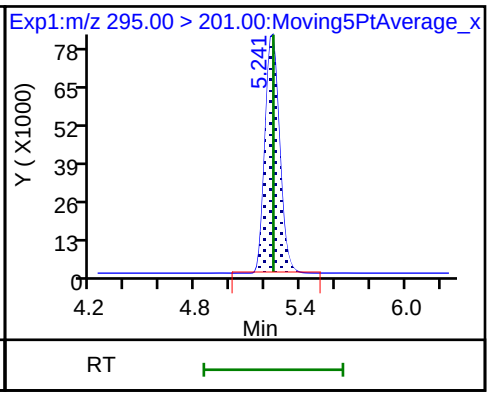
12 4:2FTS



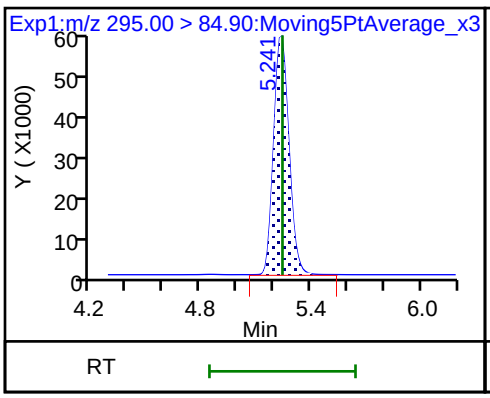
D 11 13C2-4:2FTS



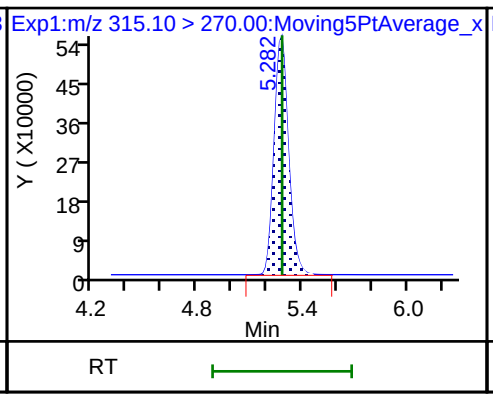
14 NFDHA



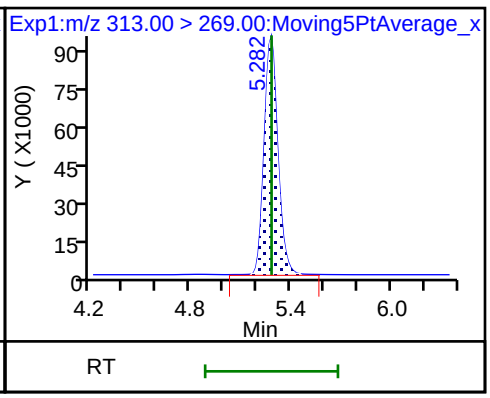
14 NFDHA



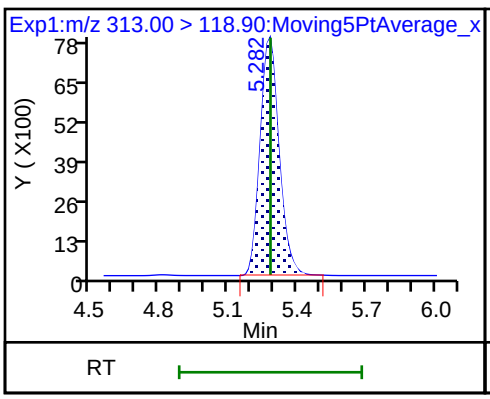
* 16 13C2 PFHxA



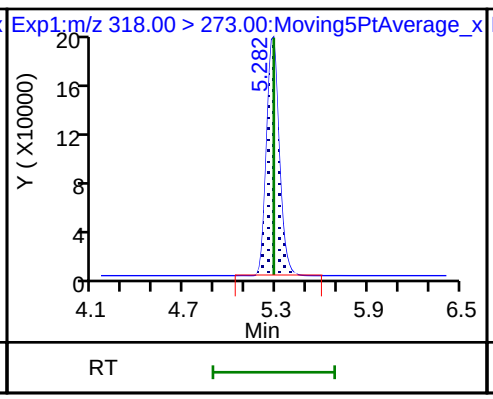
17 PFHxA



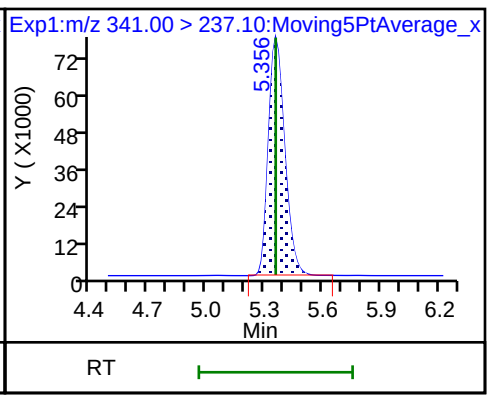
17 PFHxA



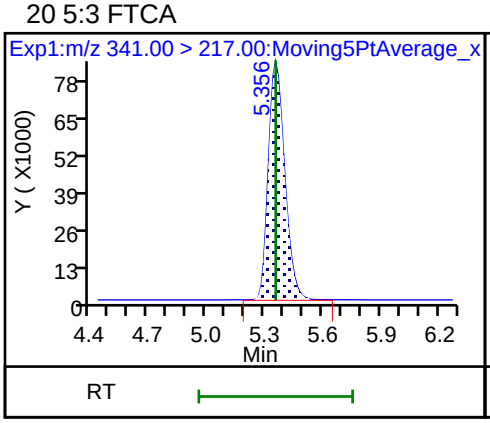
D 15 13C5 PFHxA



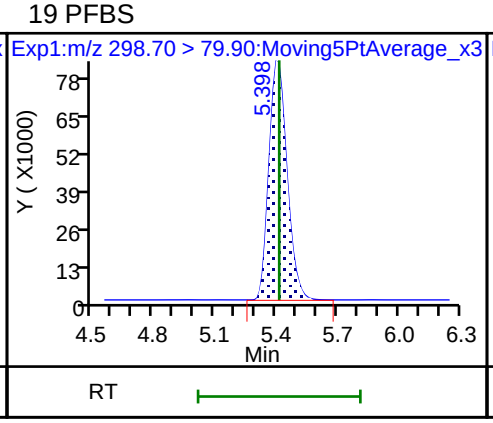
20 5:3 FTCA



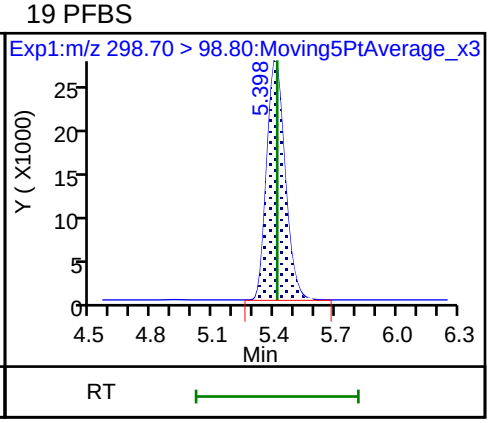
20 5:3 FTCA



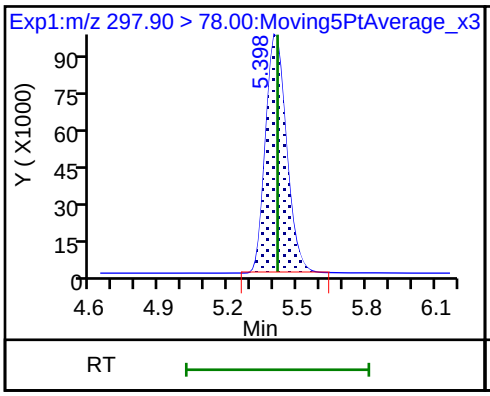
19 PFBS



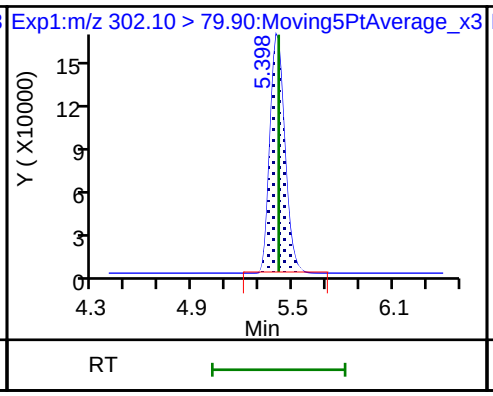
19 PFBS



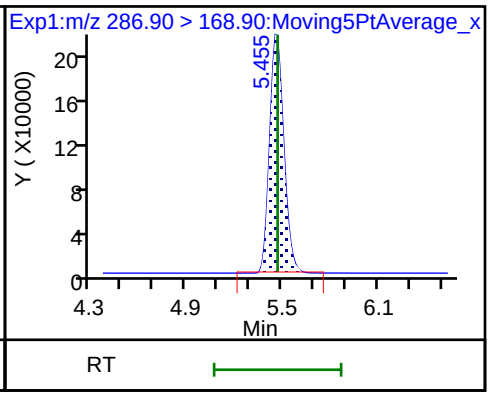
25 FBSA



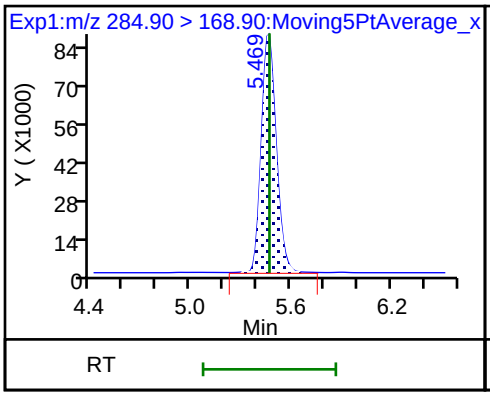
D 18 13C3 PFBS



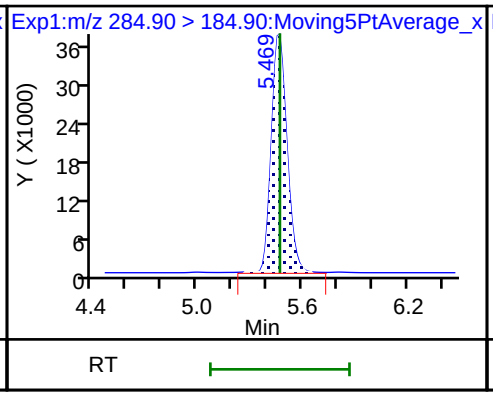
D 21 13C3 HFPO-DA



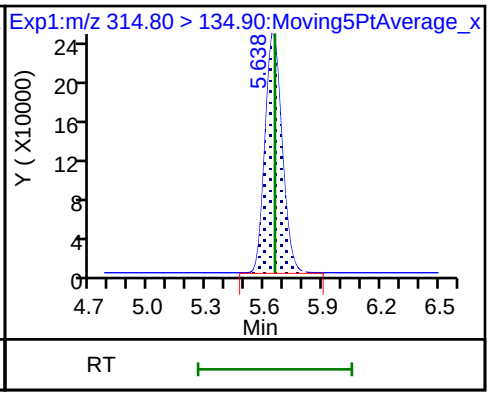
22 HFPO-DA



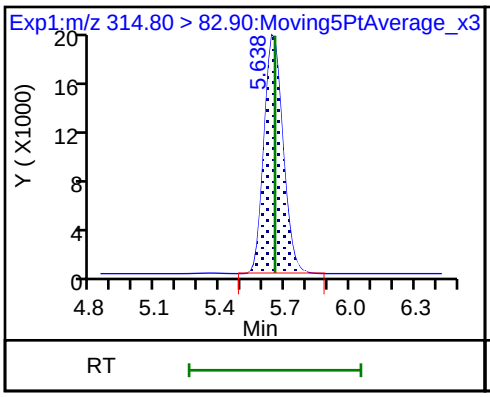
22 HFPO-DA



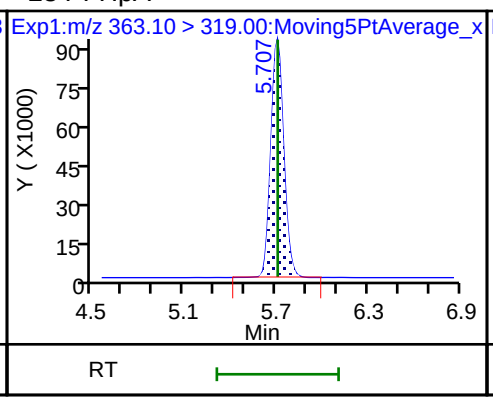
24 PFEESA



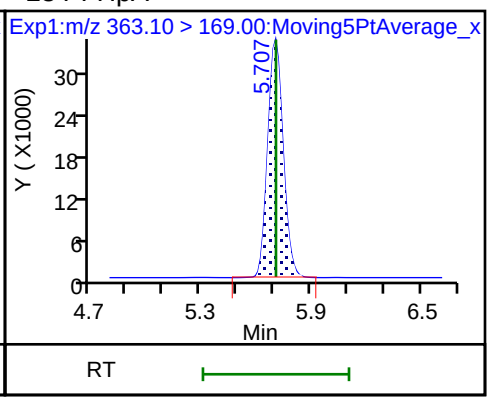
24 PFEESA



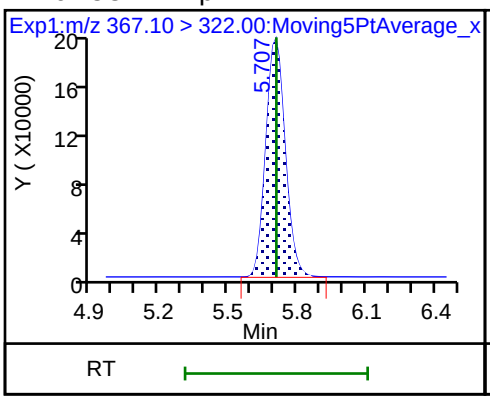
28 PFHpA



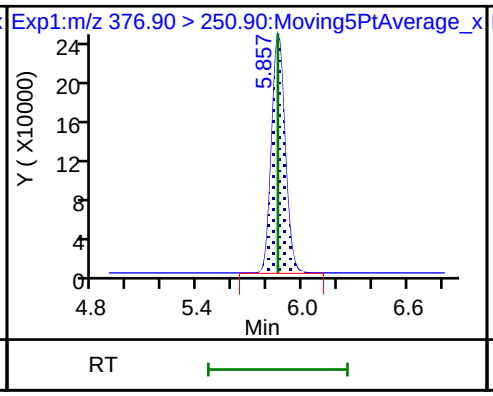
28 PFHpA



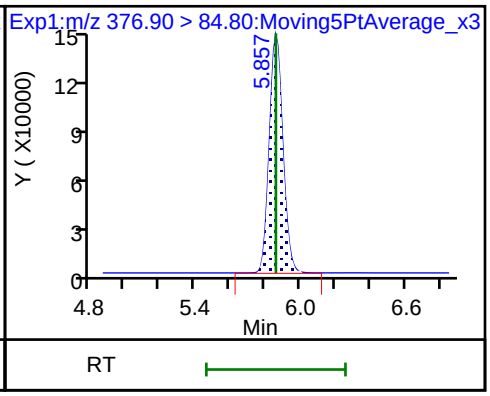
D 26 13C4 PFHpA



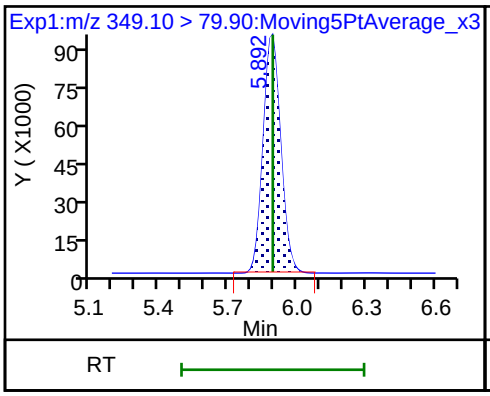
30 ADONA



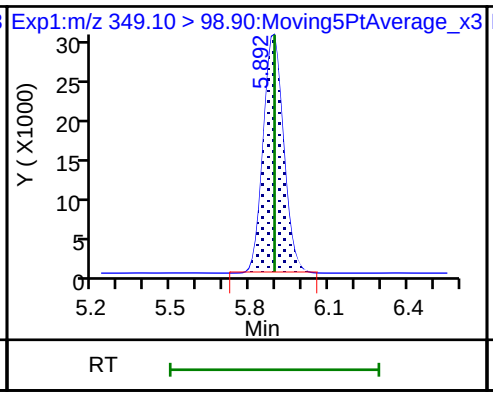
30 ADONA



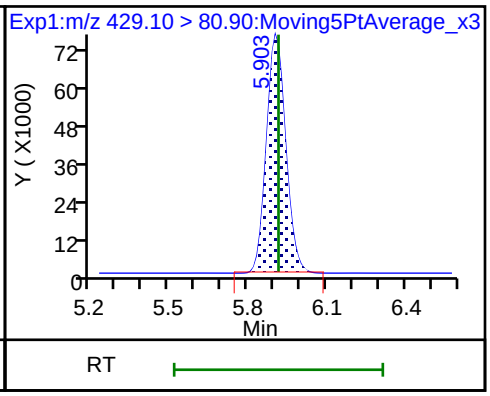
29 PFPeS



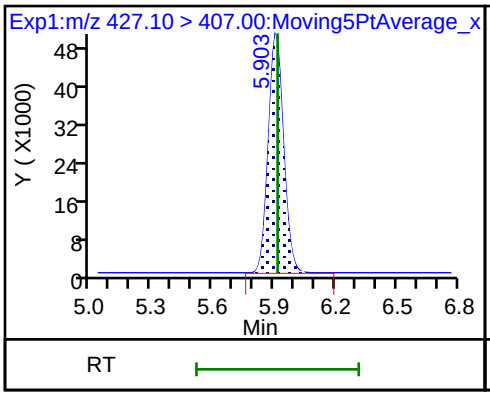
29 PFPeS



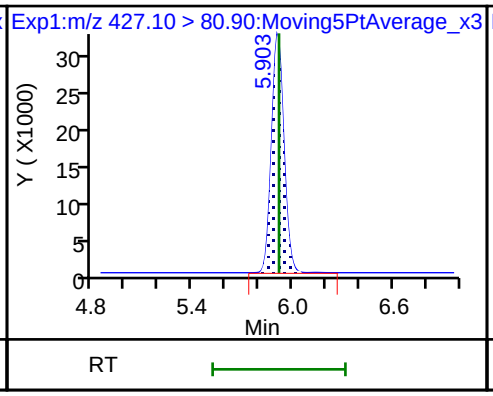
D 31 13C2-6:2FTS



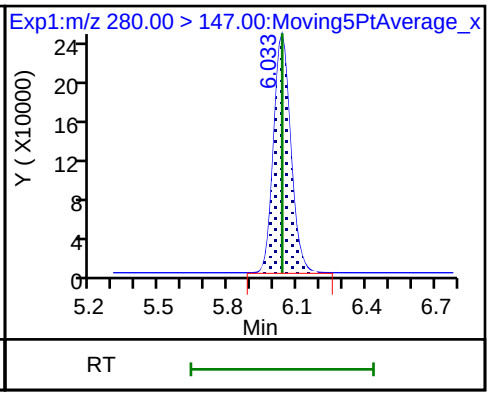
32 6:2FTS



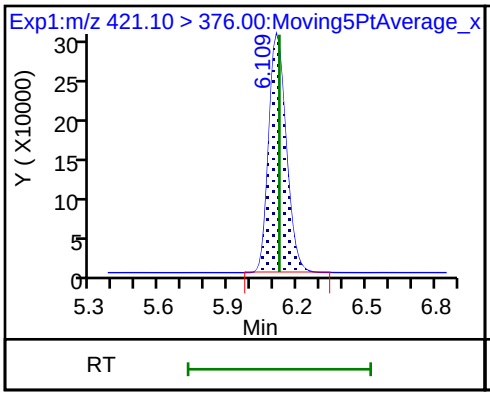
32 6:2FTS



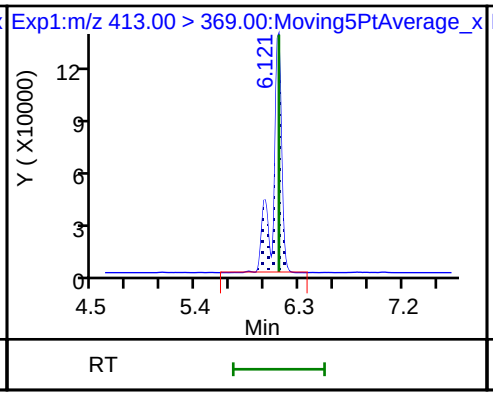
33 BTS



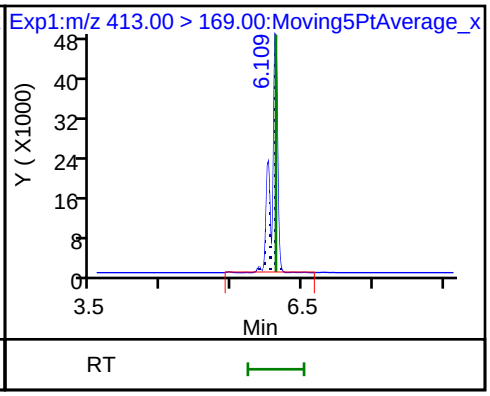
D 34 13C8 PFOA



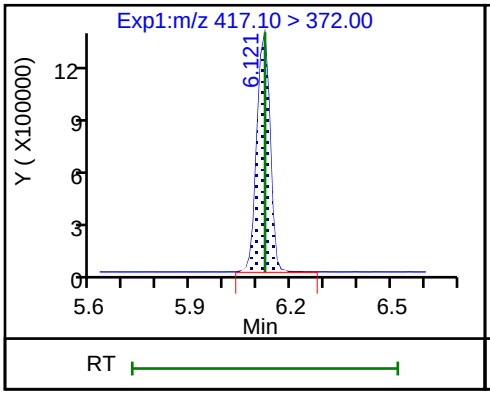
36 PFOA



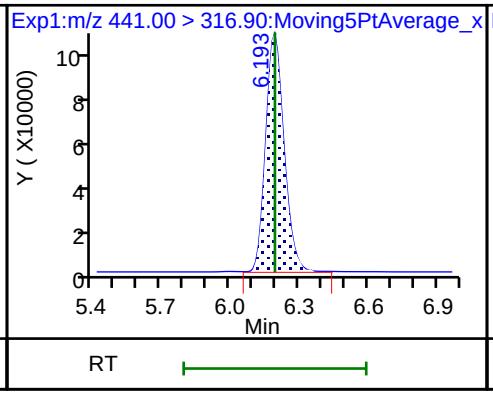
36 PFOA



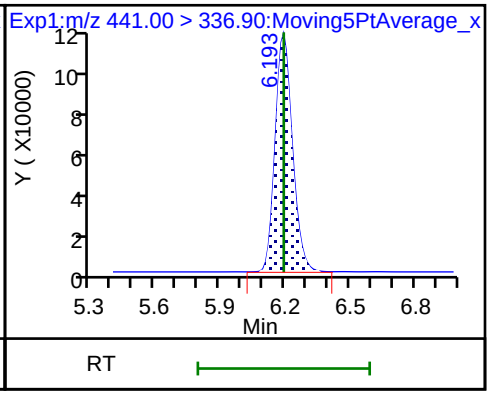
* 35 13C4 PFOA



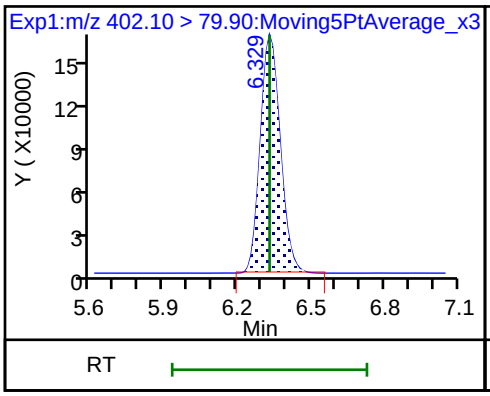
39 7:3 FTCA



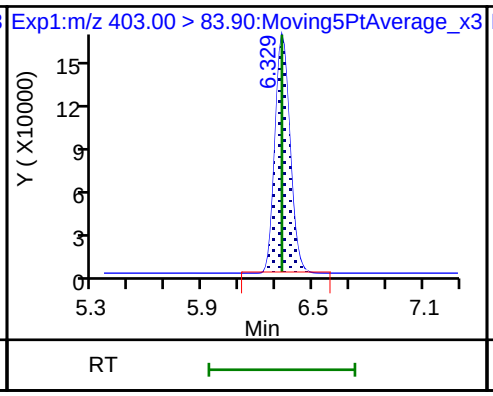
39 7:3 FTCA



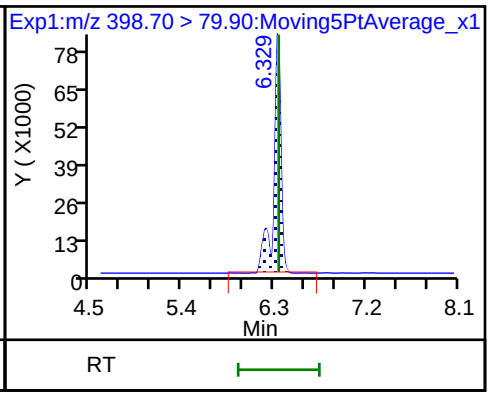
D 38 13C3 PFHxS



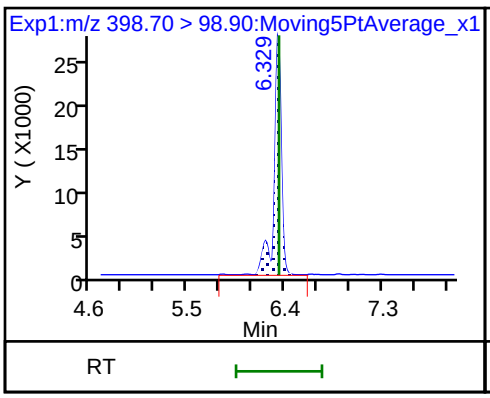
* 37 18O2 PFHxS



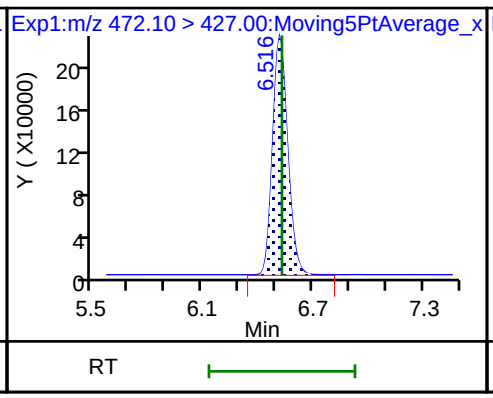
40 PFHxS



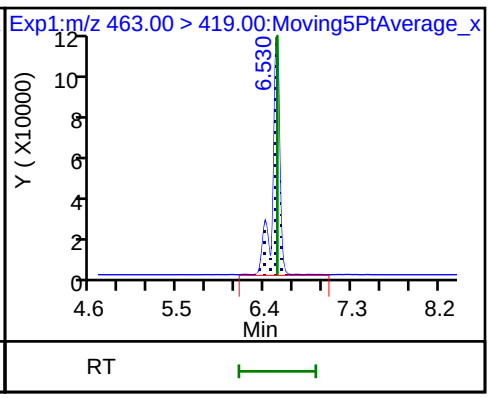
40 PFHxS



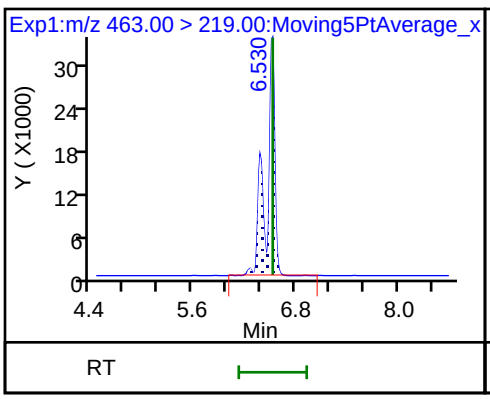
D 41 13C9 PFNA



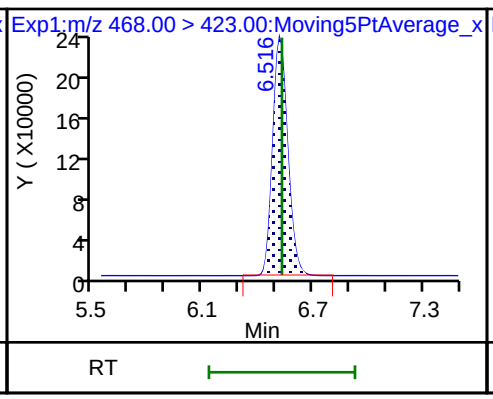
43 PFNA



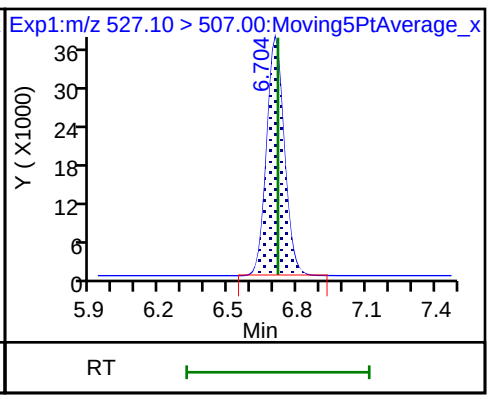
43 PFNA



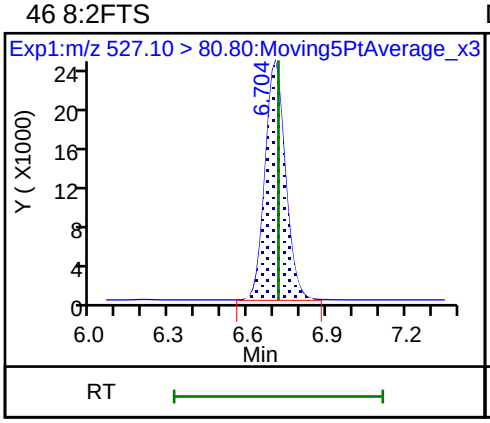
* 42 13C5 PFNA



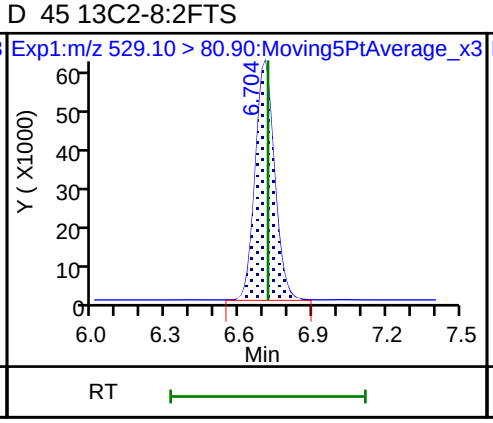
46 8:2FTS



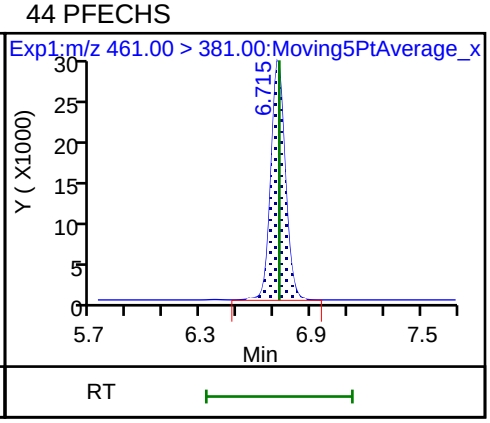
46 8:2FTS



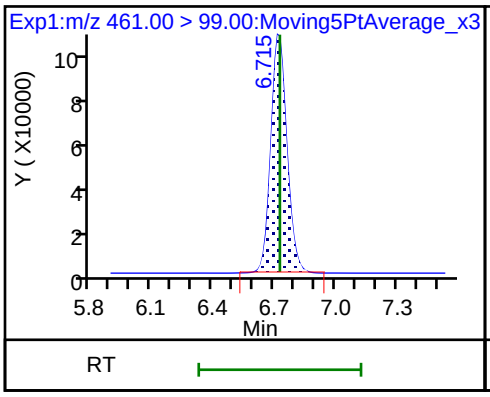
D 45 13C2-8:2FTS



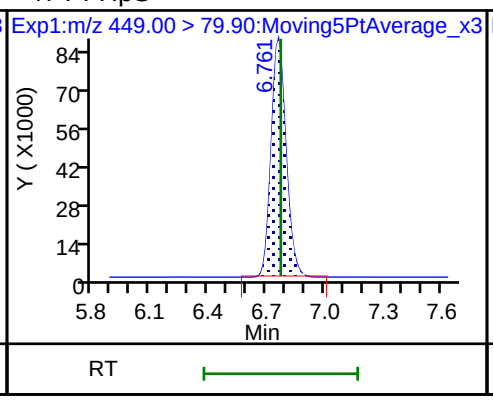
44 PFECHS



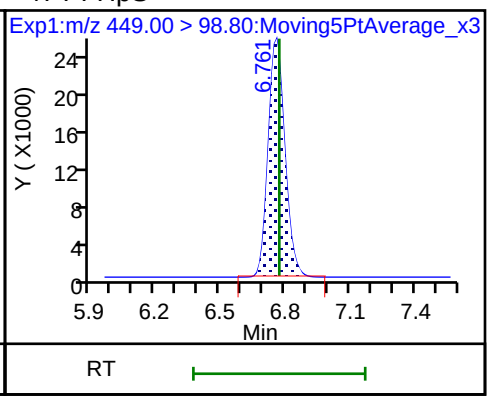
44 PFECHS



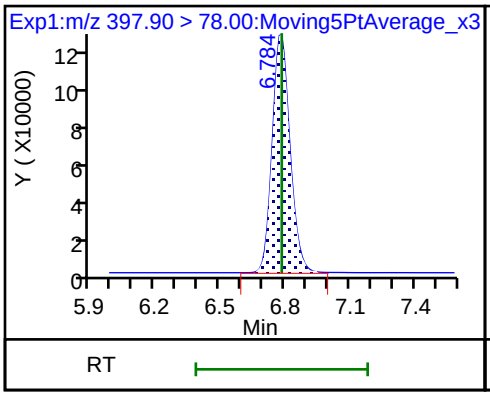
47 PFHpS



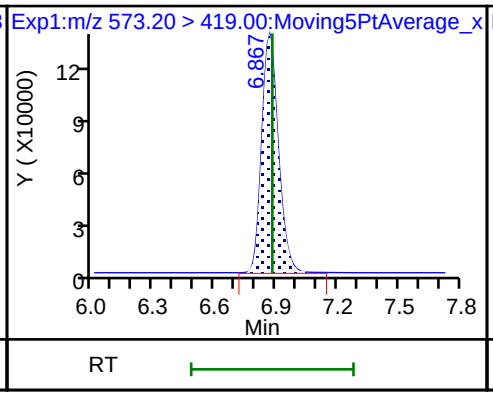
47 PFHpS



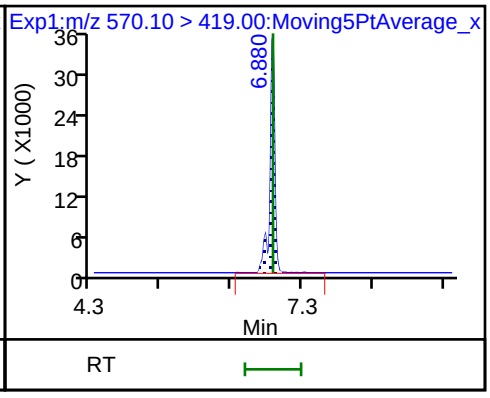
48 FHxSA



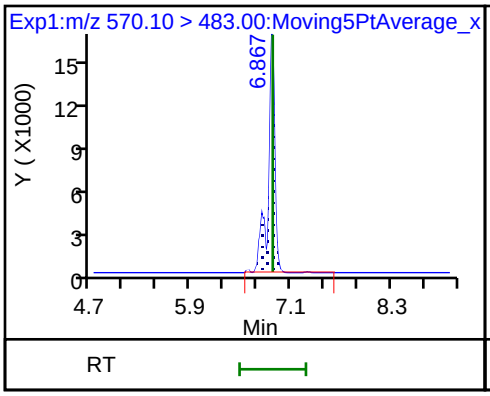
D 49 d3-NMeFOSAA



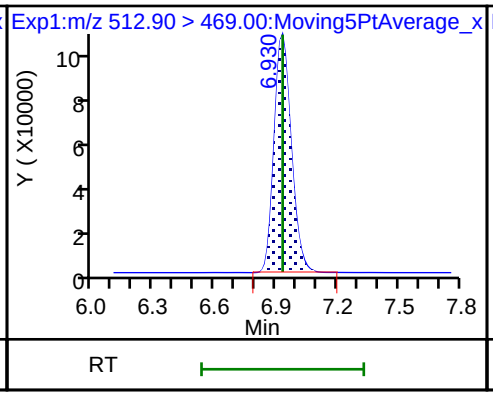
50 NMeFOSAA



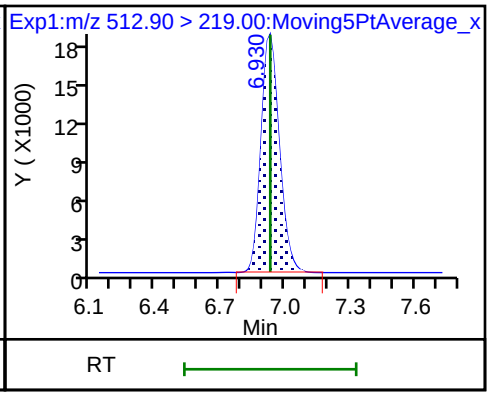
50 NMeFOSAA



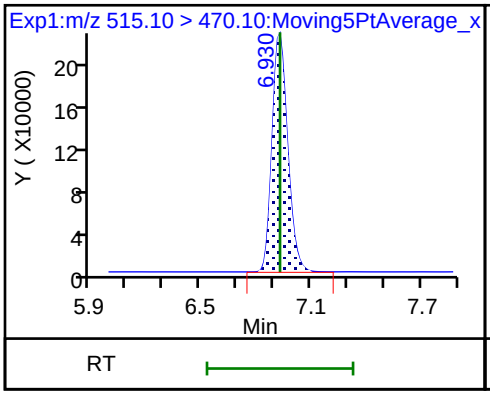
53 PFDA



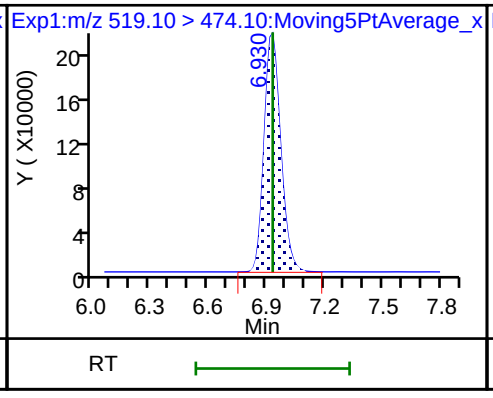
53 PFDA



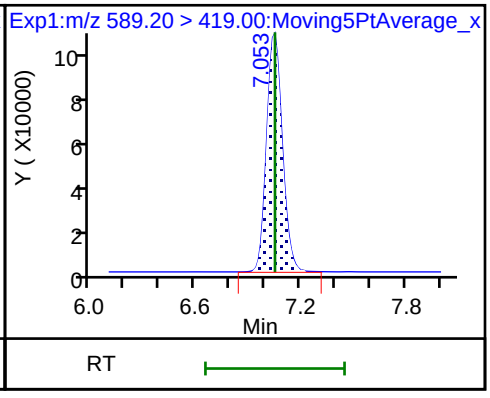
* 52 13C2 PFDA



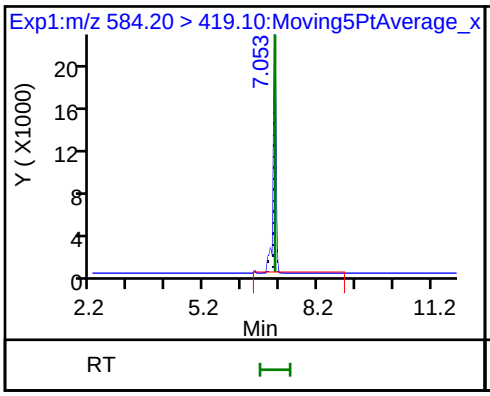
D 51 13C6 PFDA



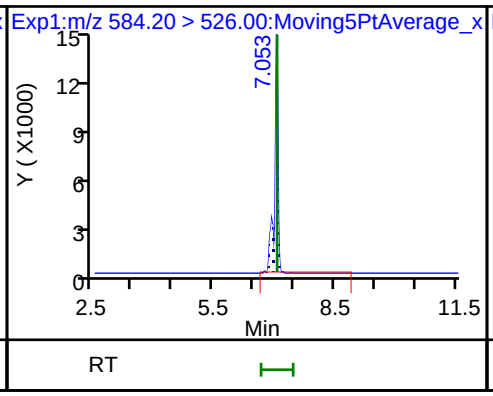
D 54 d5-NEtFOSAA



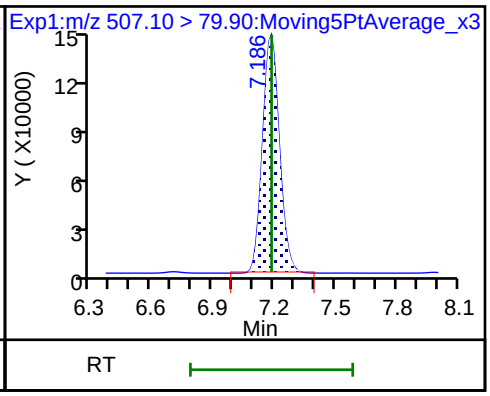
55 NEtFOSAA



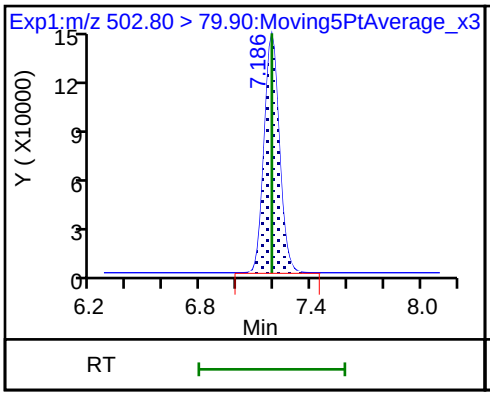
55 NEtFOSAA



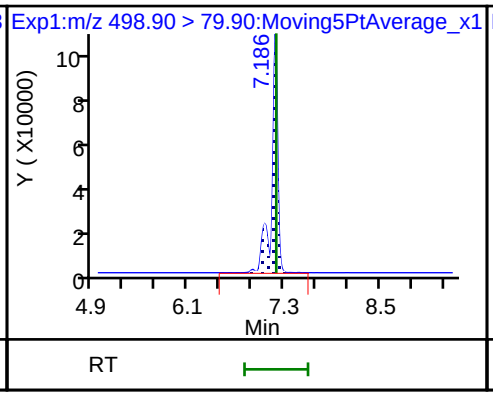
D 56 13C8 PFOS



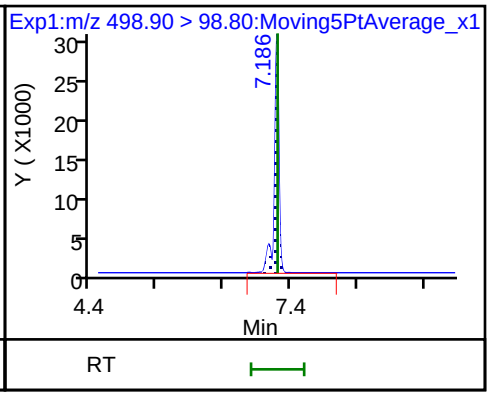
* 57 13C4 PFOS



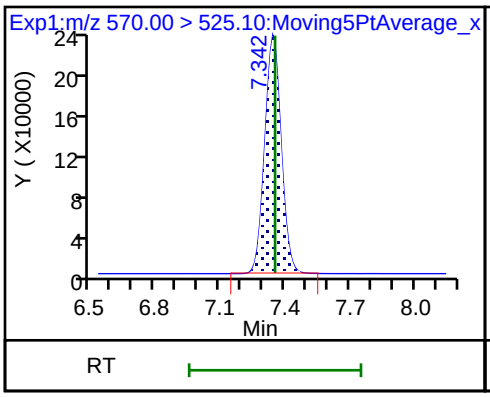
58 PFOS



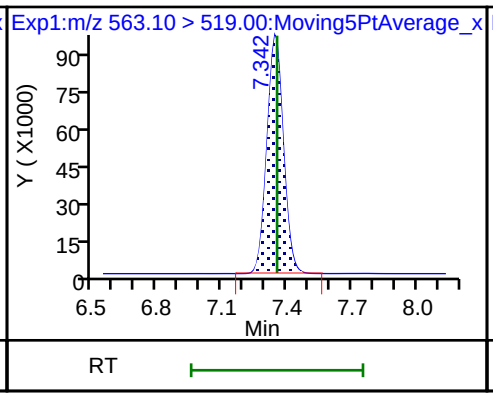
58 PFOS



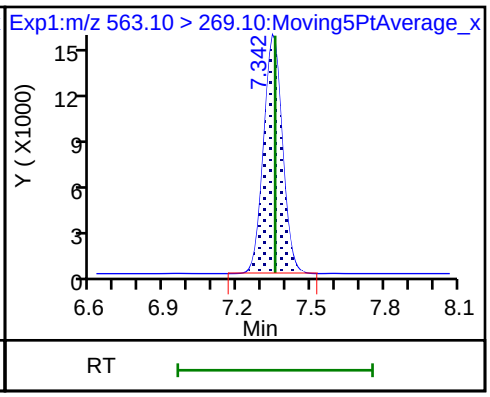
D 59 13C7 PFUnA



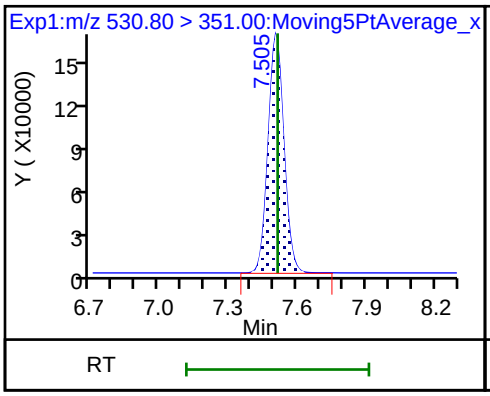
60 PFUnA



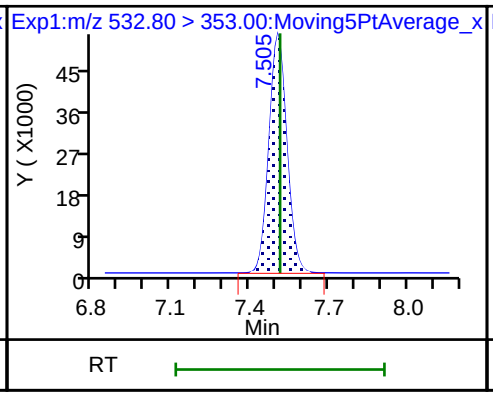
60 PFUnA



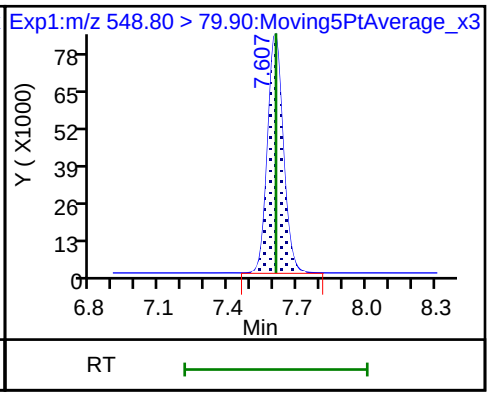
61 9ClFOS



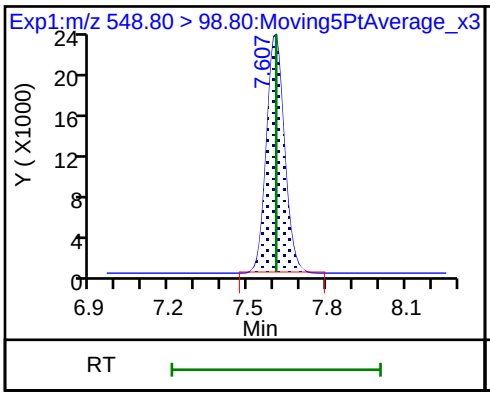
61 9ClFOS



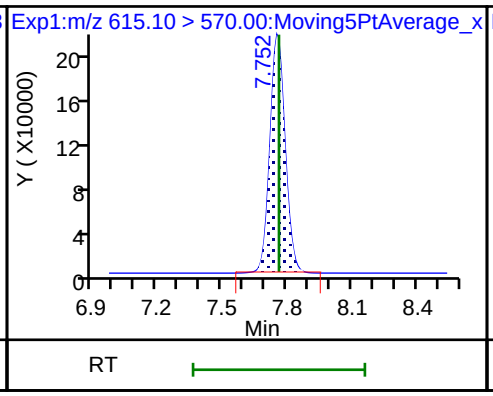
62 PFNS



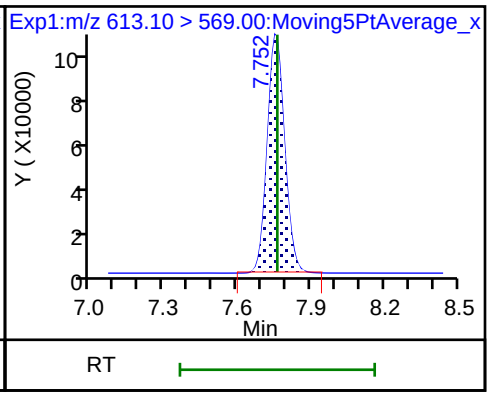
62 PFNS



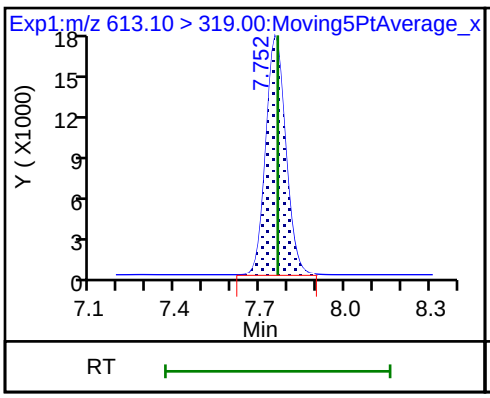
D 82 PFDoA



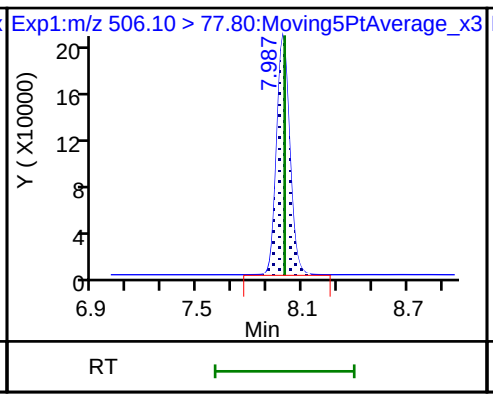
63 PFDoA



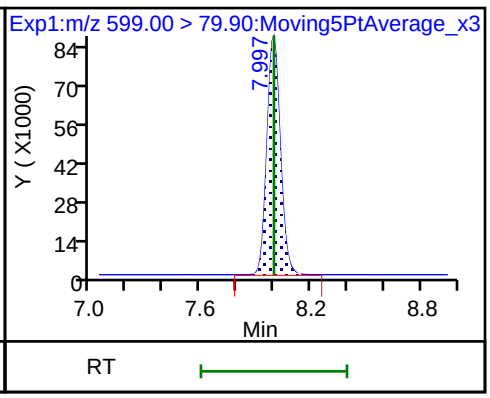
63 PFDoA



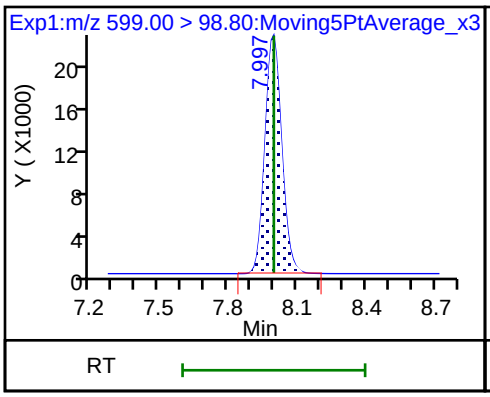
D 64 13C8 FOSA



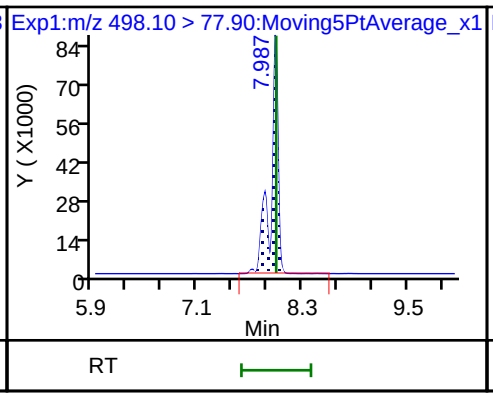
66 PFDS



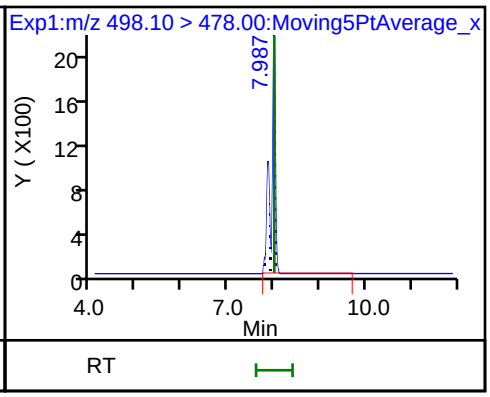
66 PFDS



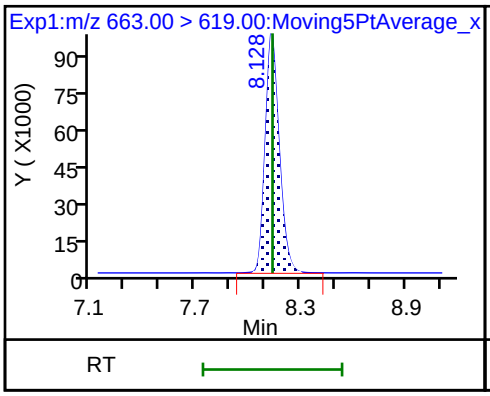
65 PFOSA



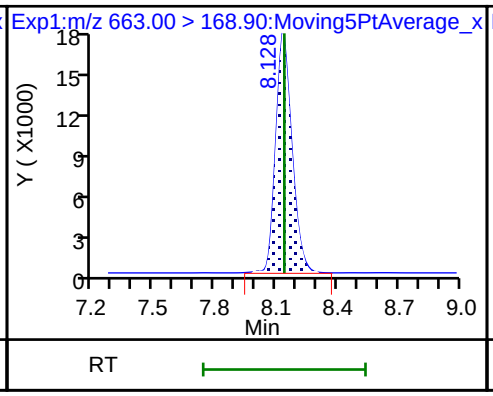
65 PFOSA



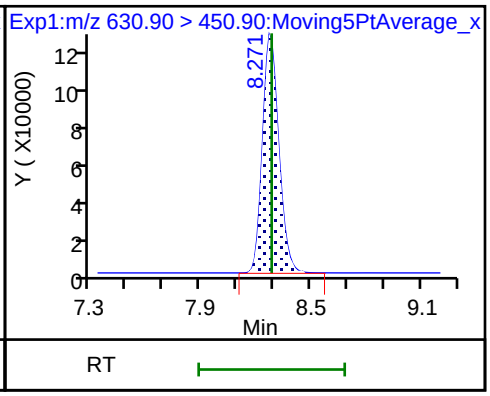
67 PFTrDA



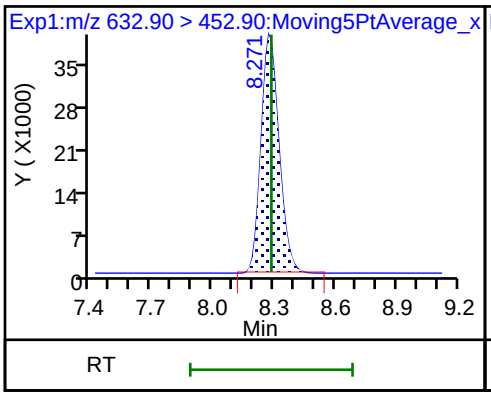
67 PFTrDA



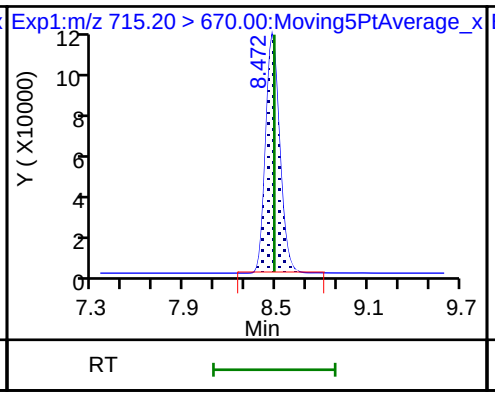
68 11ClFOS



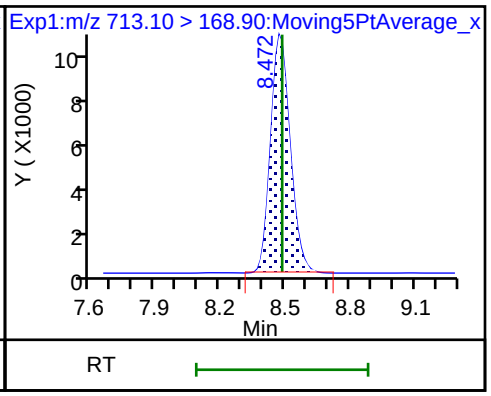
68 11ClFOS



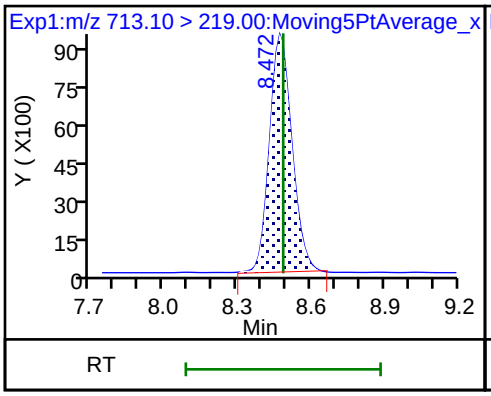
D 69 13C2 PFTeDA



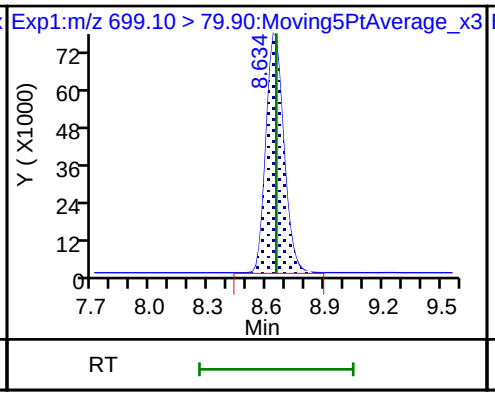
70 PFTeDA



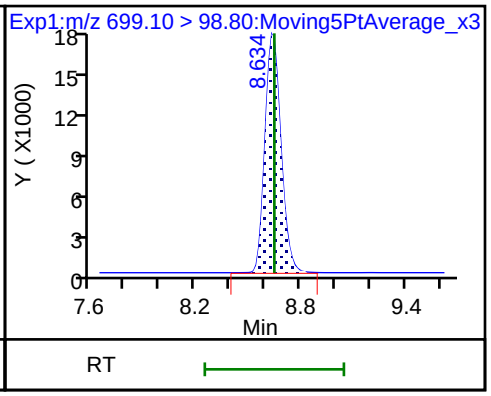
70 PFTeDA



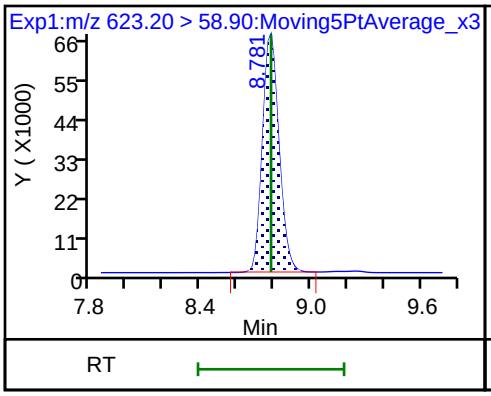
73 PFDoS



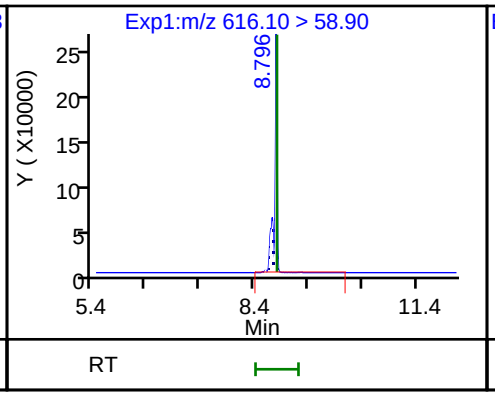
73 PFDoS



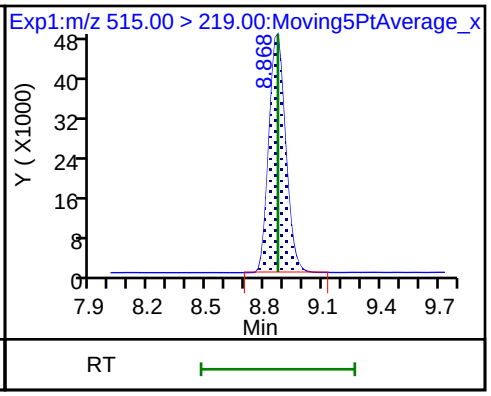
D 71 d7-N-Me-FOSE



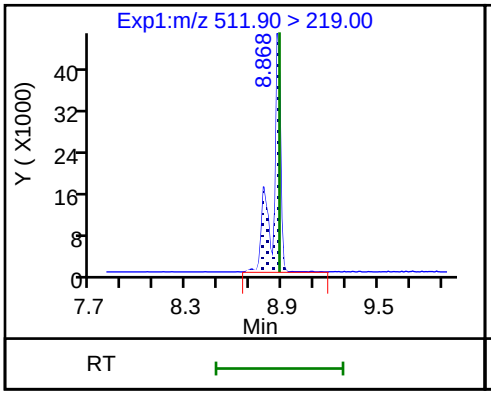
72 N-MeFOSE-M



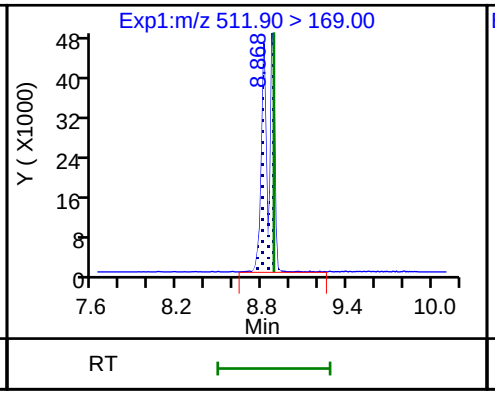
D 74 d3-NMePFOSA



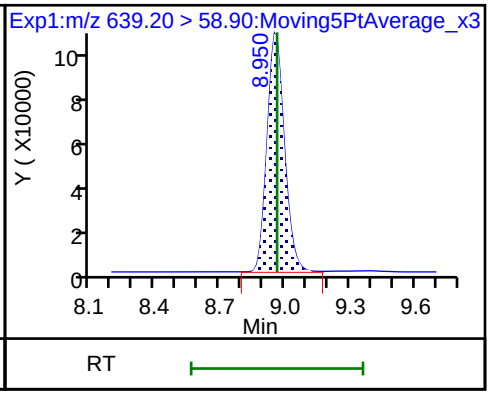
75 NMeFOSA



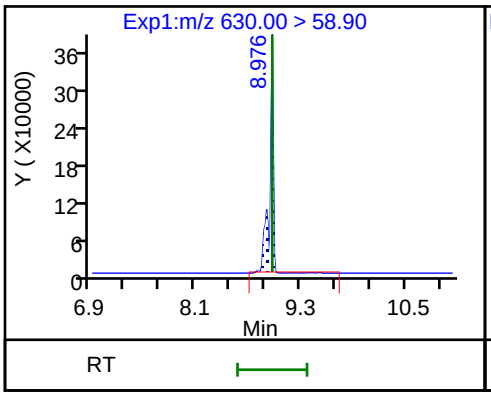
75 NMeFOSA



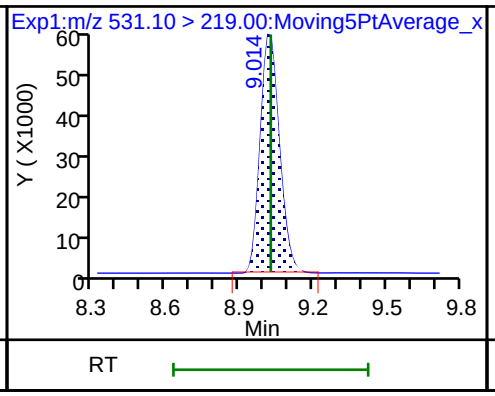
D 76 d9-N-EtFOSE



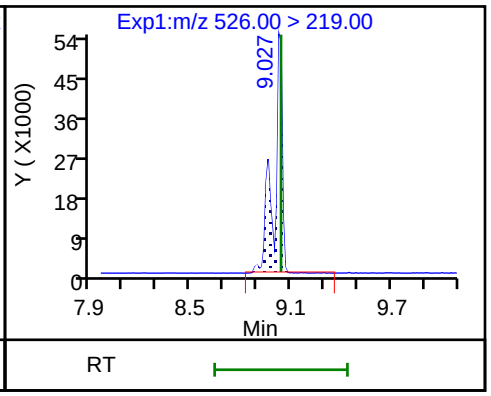
77 N-EtFOSE-M



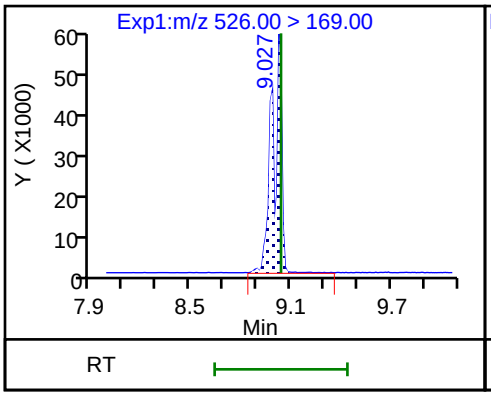
D 78 d5-NEtPFOSA



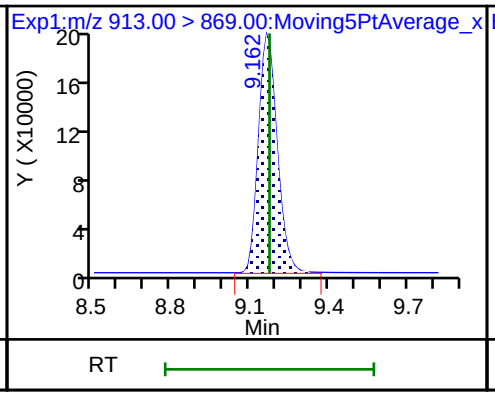
79 N-EtFOSA-M



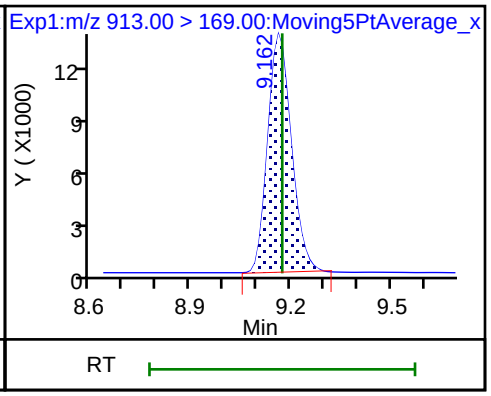
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-09.d
Lims ID: ICISAV CAL 5
Client ID:
Sample Type: ICISAV Calib Level: 5
Inject. Date: 12-Feb-2025 13:39:47 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:38:47 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:32:16
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.054	2.054	0.0	1.000	4926847	12.7		101	19197	
D 1 13C3PFPrA										
166.00 > 121.00	2.054	2.054	0.0	0.491	802923	1.98		99.1	16787	
5 PFBA										
212.80 > 168.90	4.181	4.181	0.0	1.000	3207885	5.36		107	37546	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.181	0.0	1.000	1358241	2.01		100	71107	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.181	0.0		1267796	2.00			33009	
6 PFMPA										
229.00 > 84.90	4.504	4.504	0.0	0.932	1754915	2.56		102	87740	
7 3:3 FTCA										
241.00 > 177.00	4.516	4.516	0.0	0.935	187847	5.10	Target=1.19	102	12443	
241.00 > 117.00	4.516	4.516	0.0	0.935	162647		1.15(0.60-1.79)	102	10867	
D 8 13C5 PFPeA										
268.30 > 223.00	4.832	4.832	0.0	0.915	790747	1.98		99.1	52580	
9 PFPA										
263.00 > 219.00	4.832	4.832	0.0	1.000	1559192	2.63		105	62537	
10 PFMBA										
279.00 > 85.10	4.975	4.975	0.0	1.030	1645536	2.62		105	107224	
12 4:2FTS										
327.10 > 307.00	5.102	5.102	0.0	1.000	581437	4.61	Target=1.52	98.7	36177	
327.10 > 80.90	5.102	5.102	0.0	1.000	399796		1.45(0.76-2.27)	98.7	24617	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.102	5.102	0.0	0.806	397858	5.02		107	18619	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.244	5.244	0.0	0.993	1171921	2.46	Target=1.35	98.3	68247	
295.00 > 84.90	5.244	5.244	0.0	0.993	855844		1.37(0.67-2.02)	98.3	49976	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.283	0.0		3271060	5.00			196177	
17 PFHxA										
313.00 > 269.00	5.283	5.283	0.0	1.000	1405117	2.57	Target=11.80	103	84441	
313.00 > 118.90	5.283	5.283	0.0	1.000	131585		10.68(5.90-17.70)	103	7840	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.283	0.0	1.000	1174732	2.03		102	70214	
20 5:3 FTCA										
341.00 > 237.10	5.357	5.357	0.0	1.014	1246582	12.5	Target=1.01	100	70723	
341.00 > 217.00	5.357	5.357	0.0	1.014	1275745		0.98(0.50-1.51)	100	71828	
25 FBSA										
297.90 > 78.00	5.414	5.414	0.0	1.000	1519367	2.54		102	48321	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.414	0.0	0.855	1075982	1.95		105	57870	
19 PFBS										
298.70 > 79.90	5.414	5.414	0.0	1.000	1293904	2.28	Target=3.05	103	69981	
298.70 > 98.80	5.414	5.414	0.0	1.000	436806		2.96(1.53-4.58)	103	23396	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.470	5.470	0.0	1.035	1491647	2.09		104	80875	
22 HFPO-DA										
284.90 > 168.90	5.470	5.470	0.0	1.000	1410255	1.89	Target=2.44	101	76295	
284.90 > 184.90	5.470	5.470	0.0	1.000	594394		2.37(1.22-3.66)	101	32284	
24 PFEESA										
314.80 > 134.90	5.653	5.653	0.0	1.070	3468404	2.16	Target=12.34	96.8	188953	
314.80 > 82.90	5.653	5.653	0.0	1.070	293776		11.81(6.17-18.50)	96.8	16004	
28 PFHpA										
363.10 > 319.00	5.708	5.708	0.0	1.000	1426144	2.62	Target=2.64	105	61037	
363.10 > 169.00	5.708	5.708	0.0	1.000	556304		2.56(1.32-3.96)	105	31737	
D 26 13C4 PFHpA										
367.10 > 322.00	5.708	5.708	0.0	1.081	1142367	1.95		97.4	65131	
30 ADONA										
376.90 > 250.90	5.858	5.858	0.0	1.071	3275744	2.30	Target=1.75	97.4	40689	
376.90 > 84.80	5.858	5.858	0.0	1.071	1813567		1.81(0.87-2.62)	97.4	113222	
29 PFPeS										
349.10 > 79.90	5.893	5.893	0.0	0.931	1295589	2.44	Target=3.14	104	62374	
349.10 > 98.90	5.893	5.893	0.0	0.931	398140		3.25(1.57-4.71)	104	25430	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.916	5.916	0.0	0.935	394971	4.76		100	25354	
32 6:2FTS										
427.10 > 407.00	5.916	5.916	0.0	1.000	641012	4.82	Target=1.62	102	41519	
427.10 > 80.90	5.916	5.916	0.0	1.000	408558		1.57(0.81-2.43)	102	26583	
33 BTS										
280.00 > 147.00	6.034	6.034	0.0	0.953	3211724	2.54		104	207401	
D 34 13C8 PFOA										
421.10 > 376.00	6.122	6.122	0.0	1.000	1597362	2.13		106	74444	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.122	6.122	0.0	1.000	1646068	2.59	Target=2.44	103	78810	
413.00 > 169.00	6.122	6.122	0.0	1.000	699328		2.35(1.22-3.66)	103	58588	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.122	0.0		3520477	5.00			454793	
39 7:3 FTCA										
441.00 > 316.90	6.194	6.194	0.0	1.172	1391158	12.0	Target=0.91	95.8	83139	
441.00 > 336.90	6.194	6.194	0.0	1.172	1542193		0.90(0.45-1.36)	95.8	92247	
D 38 13C3 PFHxS										
402.10 > 79.90	6.330	6.330	0.0	1.000	1019654	1.98		104	59261	
* 37 18O2 PFHxS										
403.00 > 83.90	6.330	6.330	0.0		950248	1.89			55035	
40 PFHxS										
398.70 > 79.90	6.343	6.343	0.0	1.002	1016755	2.29	Target=3.16	100	68894	
398.70 > 98.90	6.343	6.343	0.0	1.002	314359		3.23(1.58-4.74)	100	68520	
* 42 13C5 PFNA										
468.00 > 423.00	6.530	6.530	0.0		1381722	2.00			80537	
D 41 13C9 PFNA										
472.10 > 427.00	6.530	6.530	0.0	1.000	1403188	1.98		99.2	61388	
43 PFNA										
463.00 > 419.00	6.530	6.530	0.0	1.000	1494375	2.59	Target=2.70	104	296556	
463.00 > 219.00	6.530	6.530	0.0	1.000	553198		2.70(1.35-4.05)	104	83930	
46 8:2FTS										
527.10 > 507.00	6.715	6.715	0.0	1.000	525236	4.89	Target=1.71	102	32473	
527.10 > 80.80	6.715	6.715	0.0	1.000	348644		1.51(0.86-2.57)	102	21828	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.715	6.715	0.0	1.061	369924	5.17		108	22703	
44 PFECHS										
461.00 > 381.00	6.727	6.727	0.0	1.063	445147	2.55	Target=0.29	110	27128	
461.00 > 99.00	6.727	6.727	0.0	1.063	1515060		0.29(0.14-0.43)	110	93008	
47 PFHpS										
449.00 > 79.90	6.773	6.773	0.0	0.943	1264381	2.36	Target=3.62	99.0	77843	
449.00 > 98.80	6.773	6.773	0.0	0.943	345367		3.66(1.81-5.43)	99.0	21239	
48 FHxSA										
397.90 > 78.00	6.784	6.784	0.0	1.072	1693076	2.60		104	99155	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.880	6.880	0.0	0.957	820608	4.96		99.1	47406	
50 NMeFOSAA										
570.10 > 419.00	6.880	6.880	0.0	1.000	419486	2.55	Target=1.87	102	90530	
570.10 > 483.00	6.880	6.880	0.0	1.000	229588		1.83(0.93-2.80)	102	44024	
53 PFDA										
512.90 > 469.00	6.931	6.931	0.0	1.000	1542870	2.47	Target=5.46	98.9	86193	
512.90 > 219.00	6.931	6.931	0.0	1.000	293179		5.26(2.73-8.19)	98.9	16381	
* 52 13C2 PFDA										
515.10 > 470.10	6.931	6.931	0.0		1267703	2.00			70683	
D 51 13C6 PFDA										
519.10 > 474.10	6.931	6.931	0.0	1.000	1447522	2.17		108	60734	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.053	7.053	0.0	0.982	709079	5.22		104	38308	
55 NEtFOSAA										
584.20 > 419.10	7.067	7.067	0.0	1.002	318338	2.49	Target=1.40	99.8	64252	
584.20 > 526.00	7.067	7.067	0.0	1.002	232308		1.37(0.70-2.10)	99.8	44387	
D 56 13C8 PFOS										
507.10 > 79.90	7.186	7.186	0.0	1.000	962655	1.98		103	14008	
* 57 13C4 PFOS										
502.80 > 79.90	7.186	7.186	0.0		908437	1.91			53009	
58 PFOS										
498.90 > 79.90	7.198	7.198	0.0	1.002	1547542	2.42	Target=4.24	104	152722	
498.90 > 98.80	7.198	7.198	0.0	1.002	347457		4.45(2.12-6.36)	104	78235	
D 59 13C7 PFUnA										
570.00 > 525.10	7.353	7.353	0.0	1.061	1197182	1.92		96.0	56246	
60 PFUnA										
563.10 > 519.00	7.353	7.353	0.0	1.000	1281594	2.66	Target=5.76	106	81462	
563.10 > 269.10	7.353	7.353	0.0	1.000	205283		6.24(2.88-8.63)	106	13053	
61 9ClFOS										
530.80 > 351.00	7.514	7.514	0.0	1.374	1946597	2.14	Target=3.18	91.6	135705	
532.80 > 353.00	7.514	7.514	0.0	1.374	643674		3.02(1.59-4.77)	91.6	44820	
62 PFNS										
548.80 > 79.90	7.607	7.607	0.0	1.059	1046238	2.39	Target=3.81	99.3	73393	
548.80 > 98.80	7.607	7.607	0.0	1.059	285624		3.66(1.90-5.71)	99.3	20411	
D 82 PFDoA										
615.10 > 570.00	7.762	7.762	0.0	1.120	1073497	2.05		102	73085	
63 PFDoA										
613.10 > 569.00	7.762	7.762	0.0	1.000	1350933	2.69	Target=6.16	107	92984	
613.10 > 319.00	7.762	7.762	0.0	1.000	212853		6.35(3.08-9.25)	107	14605	
D 64 13C8 FOSA										
506.10 > 77.80	7.997	7.997	0.0	1.113	1105246	1.91		95.3	70629	
66 PFDS										
599.00 > 79.90	7.997	7.997	0.0	1.113	1126414	2.41	Target=3.75	99.8	73417	
599.00 > 98.80	7.997	7.997	0.0	1.113	297140		3.79(1.87-5.62)	99.8	19314	
65 PFOSA										
498.10 > 77.90	7.997	7.997	0.0	1.000	1271006	2.55	Target=46.29	102	222519	
498.10 > 478.00	7.997	7.997	0.0	1.000	31096		40.87(23.15-69.44)	102	5078	
67 PFTrDA										
663.00 > 619.00	8.139	8.139	0.0	0.959	1382737	2.60	Target=5.80	104	82146	
663.00 > 168.90	8.139	8.139	0.0	0.959	236237		5.85(2.90-8.70)	104	13886	
68 11ClFOS										
630.90 > 450.90	8.285	8.285	0.0	1.515	1899383	2.21	Target=3.09	93.8	102929	
632.90 > 452.90	8.285	8.285	0.0	1.515	633241		3.00(1.55-4.64)	93.8	34495	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.486	8.486	0.0	1.224	787887	2.12		106	40828	
70 PFTeDA										
713.10 > 168.90	8.486	8.486	0.0	1.000	177775	2.58	Target=1.18	103	9185	
713.10 > 219.00	8.486	8.486	0.0	1.000	152576		1.17(0.59-1.77)	103	7888	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.650	8.650	0.0	1.204	1361678	2.64	Target=4.45	109	53688	
699.10 > 98.80	8.650	8.650	0.0	1.204	304954		4.47(2.23-6.68)	109	16022	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.781	8.781	0.0	1.222	435873	4.83		96.7	10057	
72 N-MeFOSE-M										
616.10 > 58.90	8.811	8.811	0.0	1.003	2074309	12.9		103	12249	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.868	8.868	0.0	1.234	297126	1.95		97.6	12649	
75 NMeFOSA										
511.90 > 219.00	8.882	8.882	0.0	1.002	394861	2.56	Target=0.73	102	1722	
511.90 > 169.00	8.882	8.882	0.0	1.002	531040		0.74(0.36-1.09)	102	138057	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.962	8.962	0.0	1.247	577300	4.92		98.4	15028	
77 N-EtFOSE-M										
630.00 > 58.90	8.975	8.975	0.0	1.001	2727240	12.9		104	17720	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.027	9.027	0.0	1.256	334266	1.95		97.4	20757	
79 N-EtFOSA-M										
526.00 > 219.00	9.040	9.040	0.0	1.001	442151	2.47	Target=0.82	98.6	159557	
526.00 > 169.00	9.040	9.040	0.0	1.001	552517		0.80(0.41-1.22)	98.6	165768	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.174	9.174	0.0	1.081	2478924	2.47	Target=14.83	98.8	71085	
913.00 > 169.00	9.174	9.174	0.0	1.081	165939		14.94(7.41-22.24)	98.8	11041	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL5_00017 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:38:49 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-09.d

Injection Date: 12-Feb-2025 13:39:47 Instrument ID: 30576

Lims ID: ICISAV CAL 5

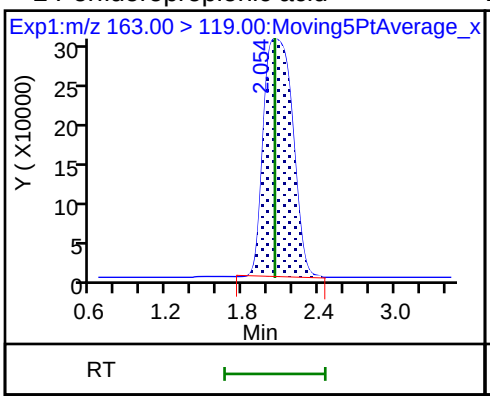
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 6 Worklist Smp#: 5

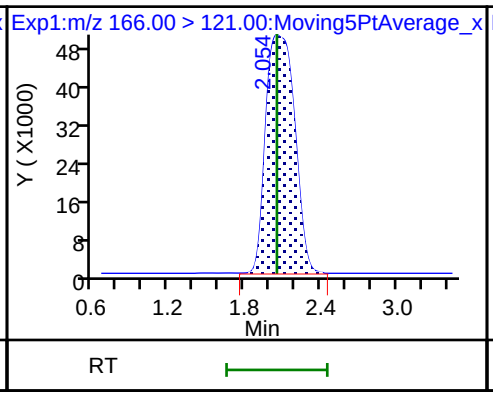
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

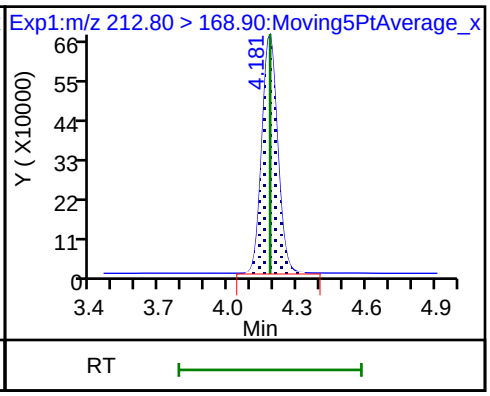
2 Perfluoropropionic acid



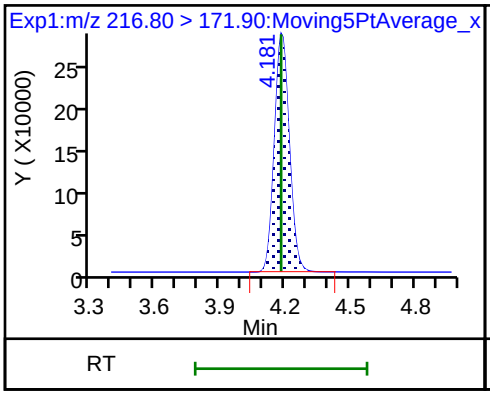
D 1 13C3PFPrA



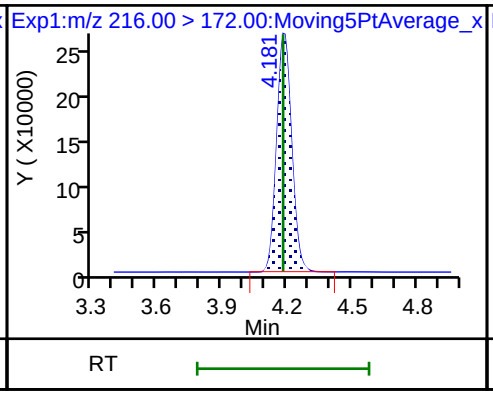
5 PFBA



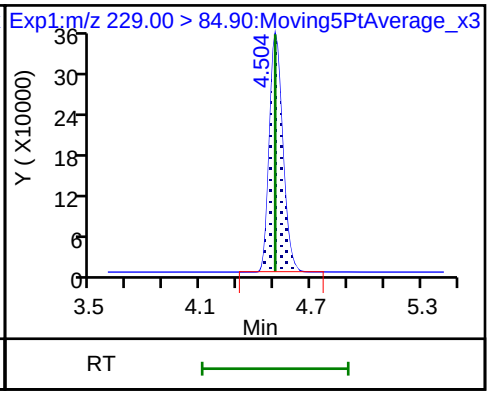
D 3 13C4-PFBA



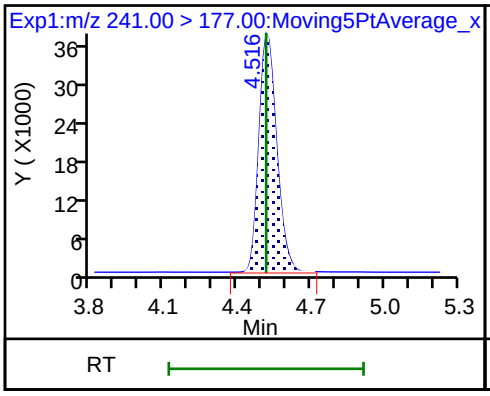
* 4 13C3PFBA



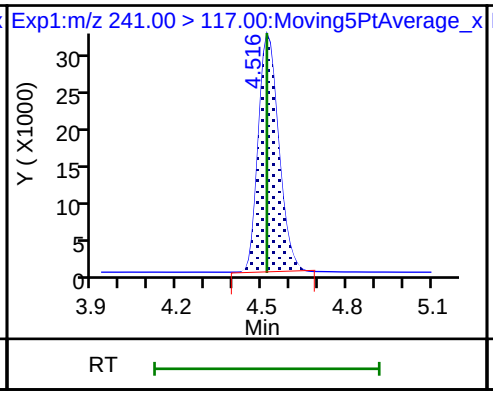
6 PFMPA



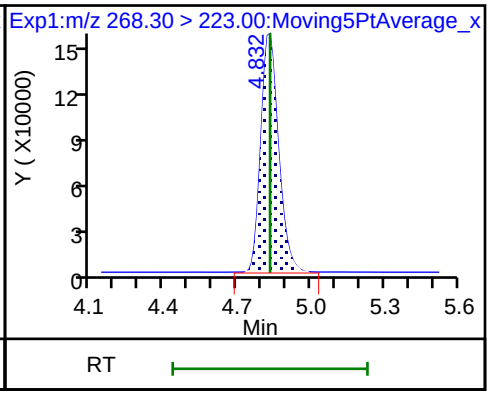
7 3:3 FTCA



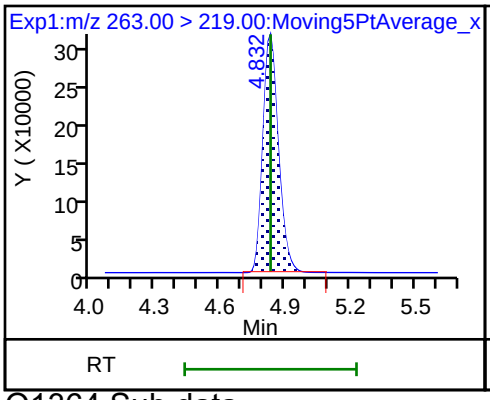
7 3:3 FTCA



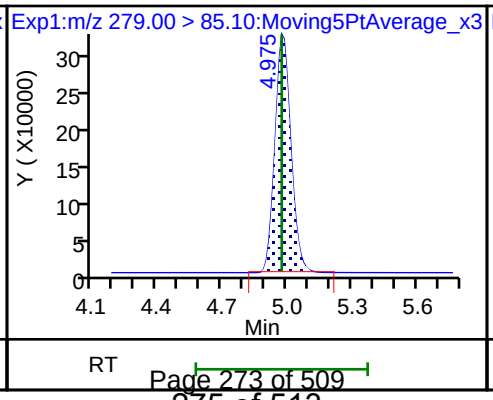
D 8 13C5 PFPeA



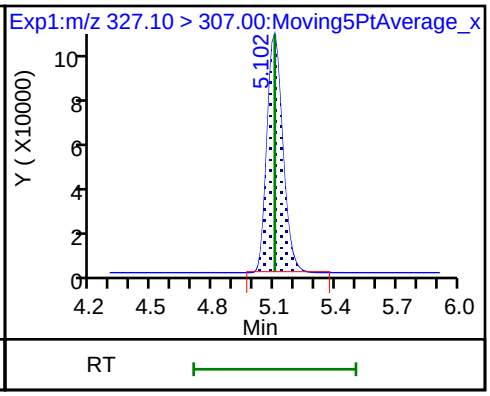
9 PFPA



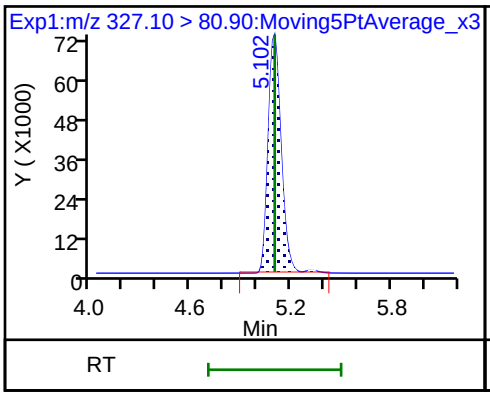
10 PFMBA



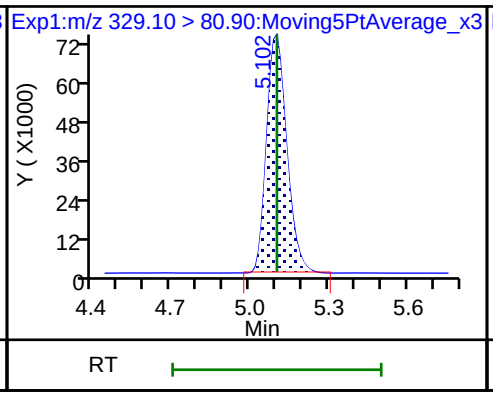
12 4:2FTS



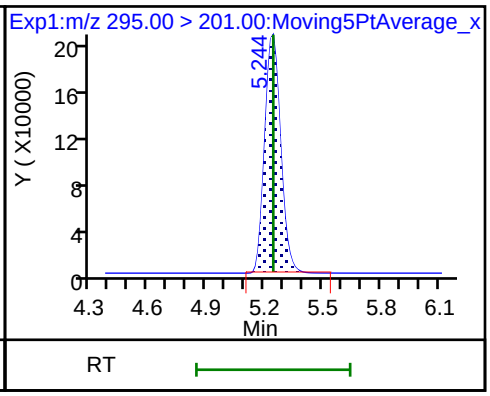
12 4:2FTS



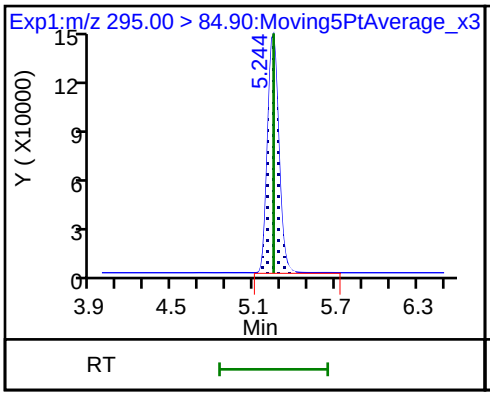
D 11 13C2-4:2FTS



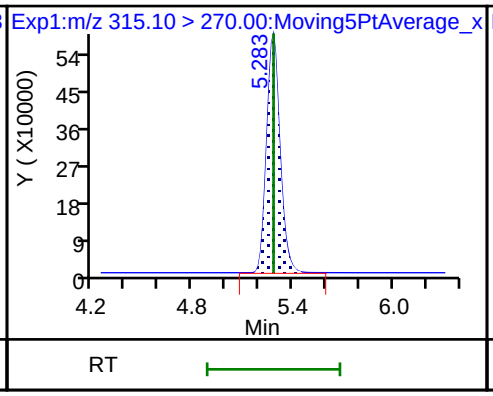
14 NFDHA



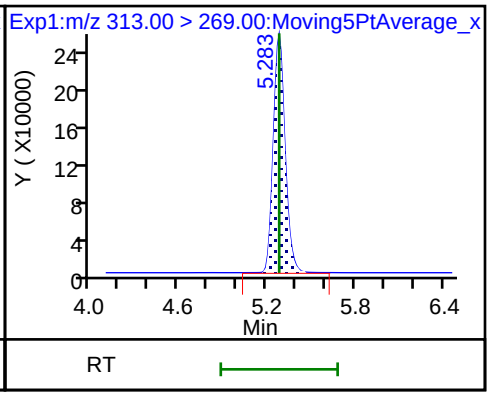
14 NFDHA



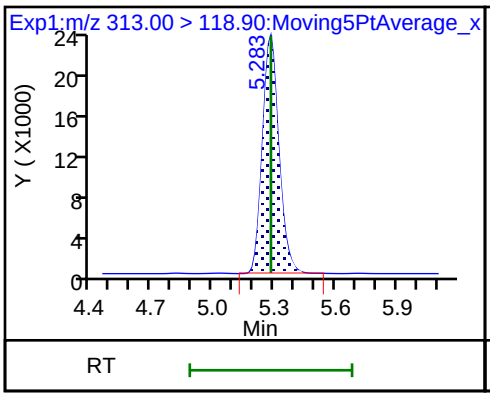
* 16 13C2 PFHxA



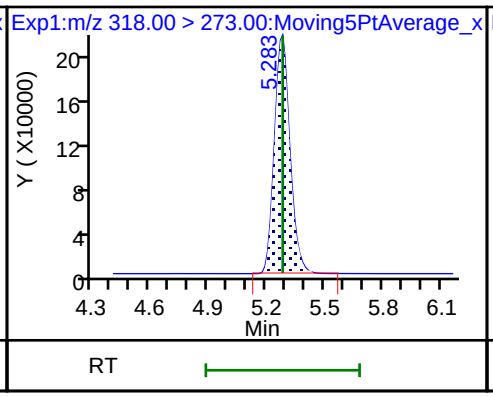
17 PFHxA



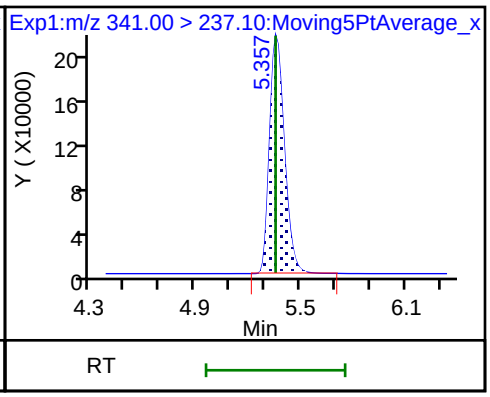
17 PFHxA



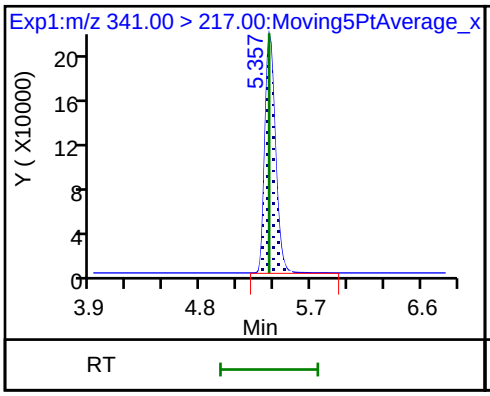
D 15 13C5 PFHxA



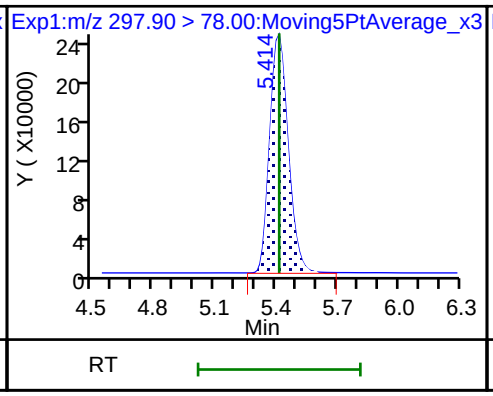
20 5:3 FTCA



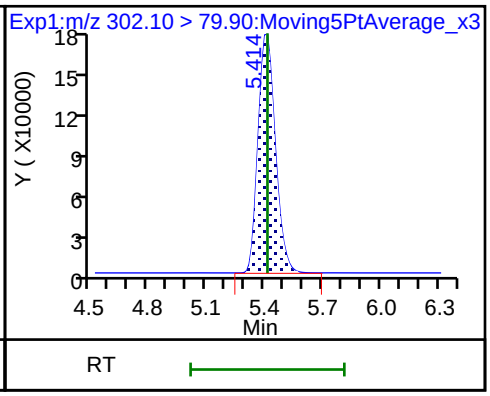
20 5:3 FTCA



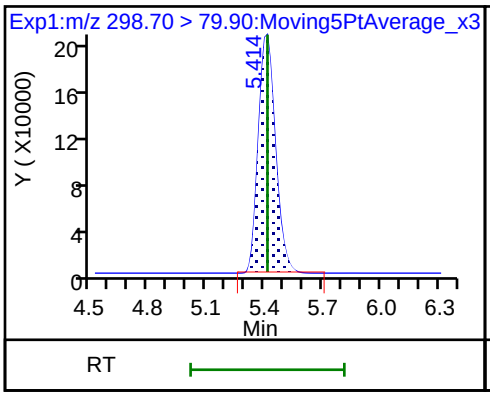
25 FBSA



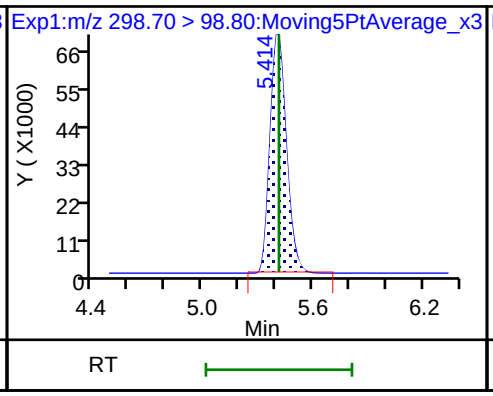
D 18 13C3 PFBS



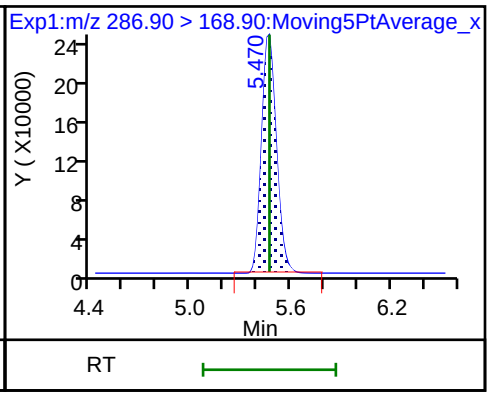
19 PFBS



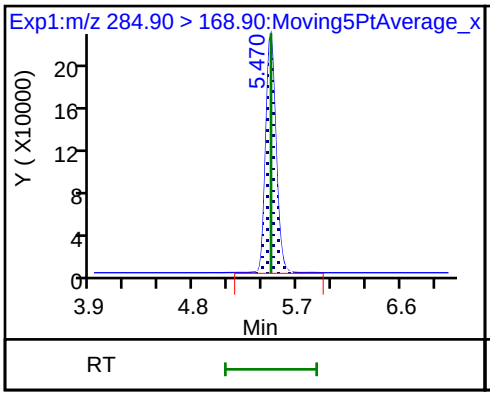
19 PFBS



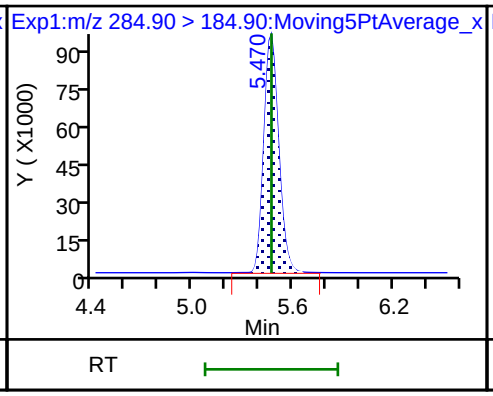
D 21 13C3 HFPO-DA



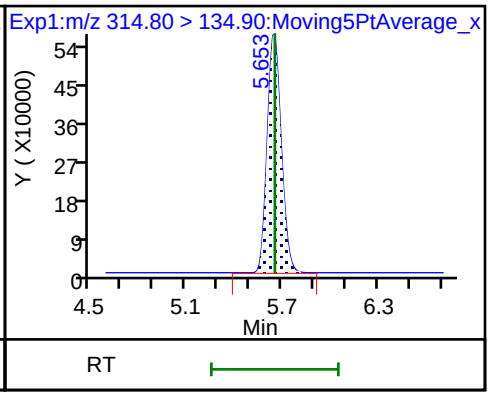
22 HFPO-DA



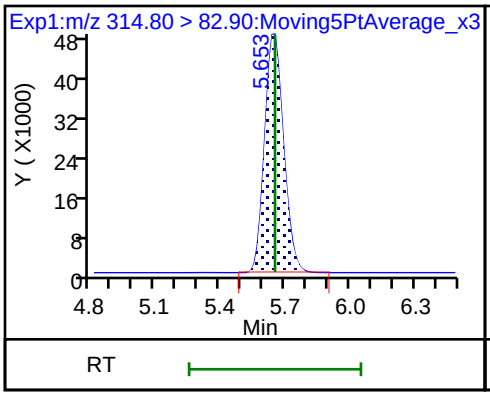
22 HFPO-DA



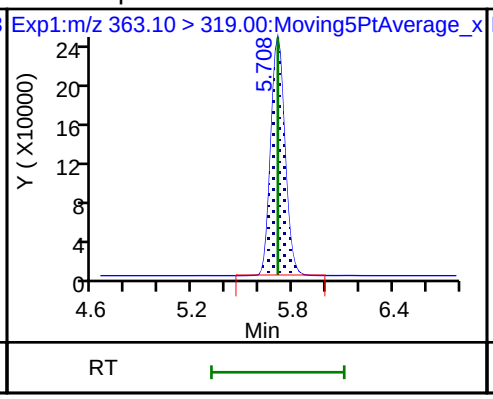
24 PFEESA



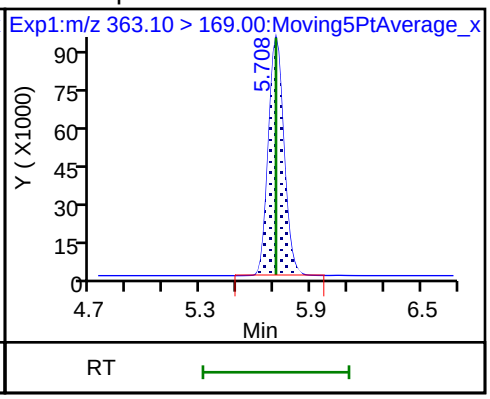
24 PFEESA



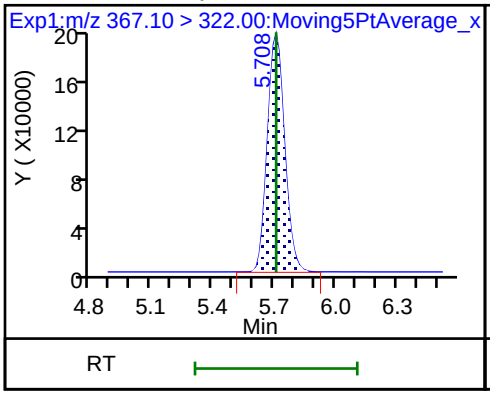
28 PFHpA



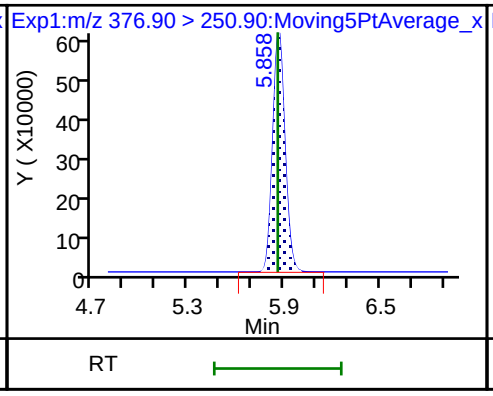
28 PFHpA



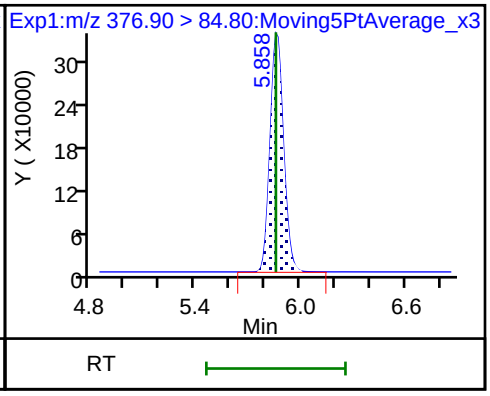
D 26 13C4 PFHpA



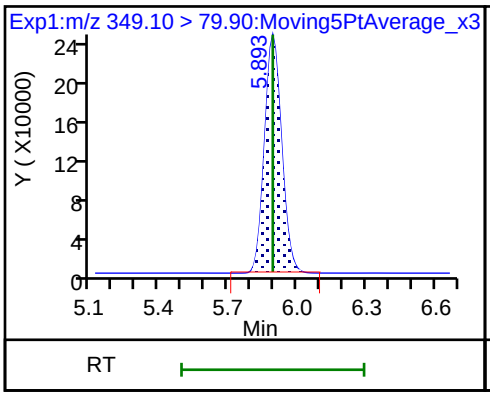
30 ADONA



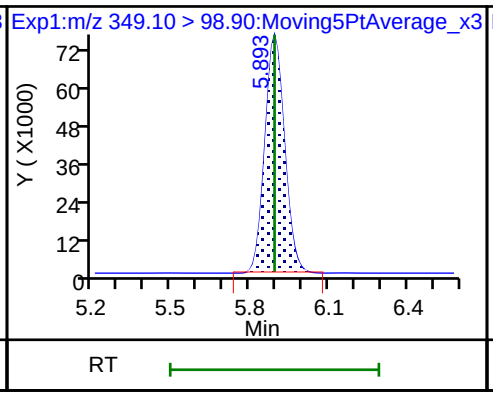
30 ADONA



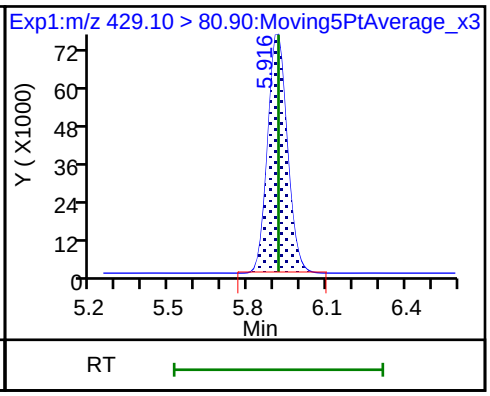
29 PFPeS



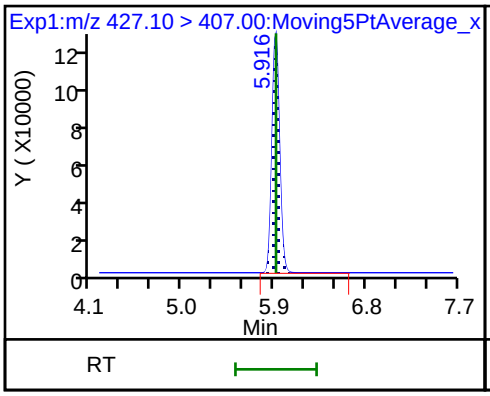
29 PFPeS



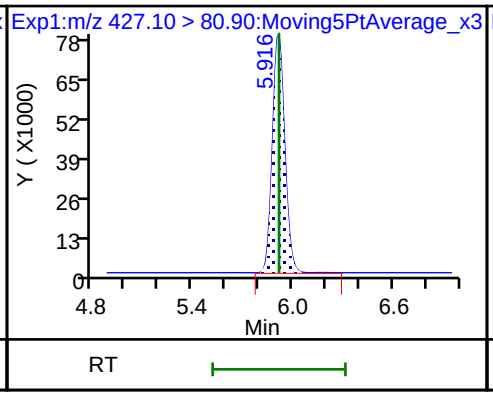
D 31 13C2-6:2FTS



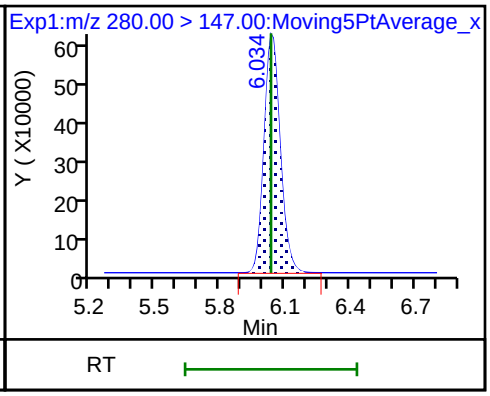
32 6:2FTS



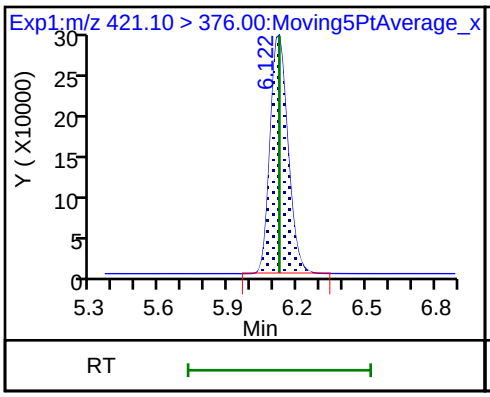
32 6:2FTS



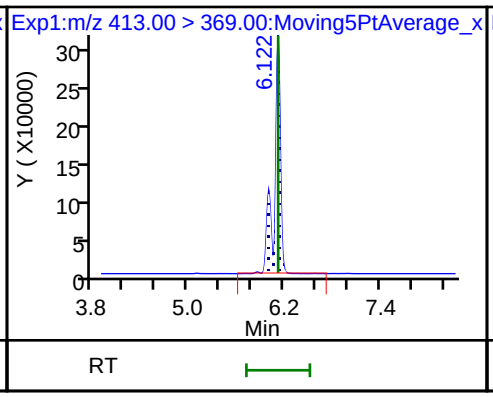
33 BTS



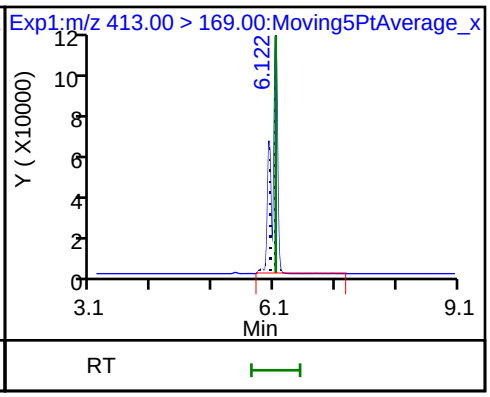
D 34 13C8 PFOA



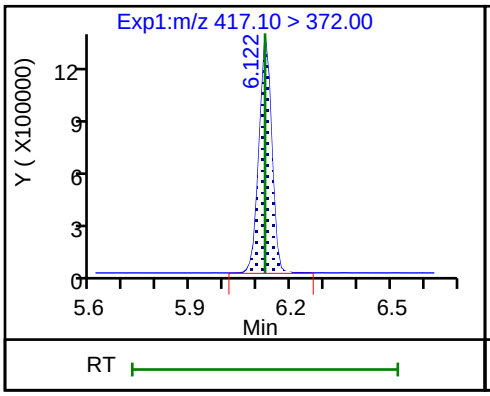
36 PFOA



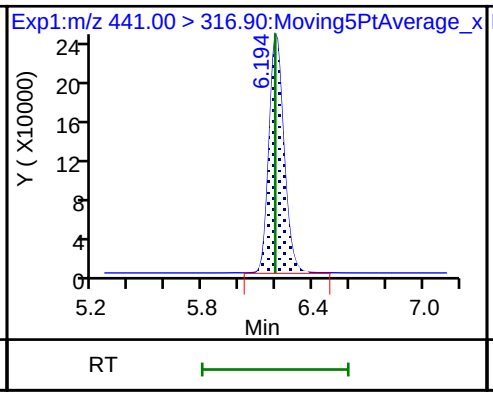
36 PFOA



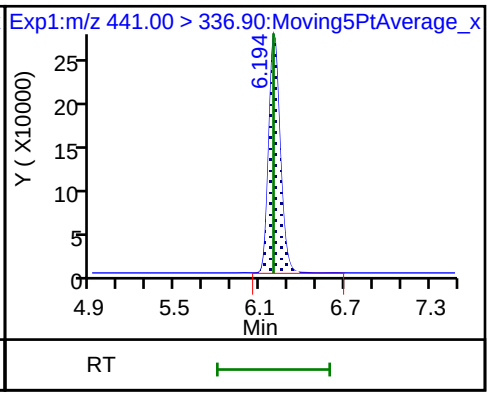
* 35 13C4 PFOA



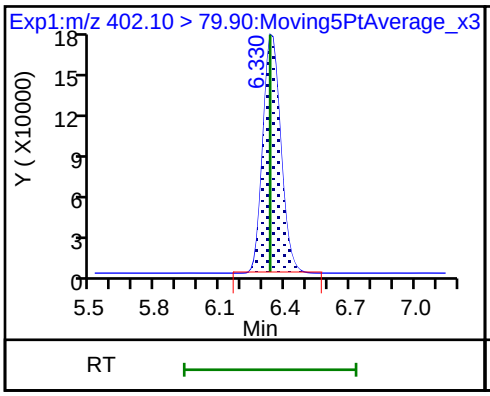
39 7:3 FTCA



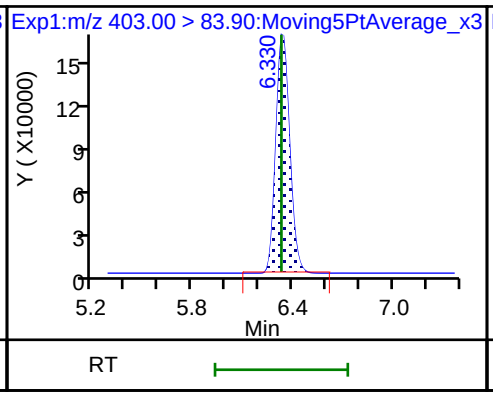
39 7:3 FTCA



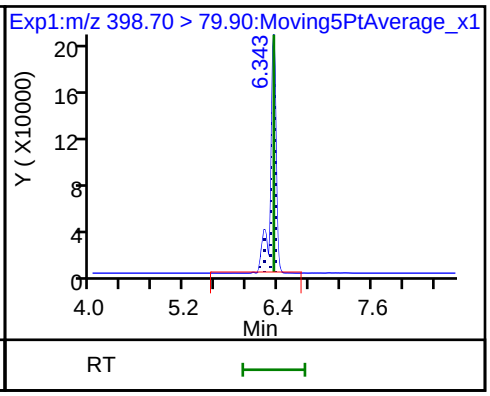
D 38 13C3 PFHxS



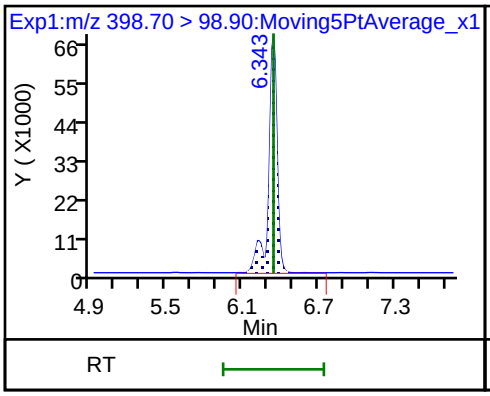
* 37 18O2 PFHxS



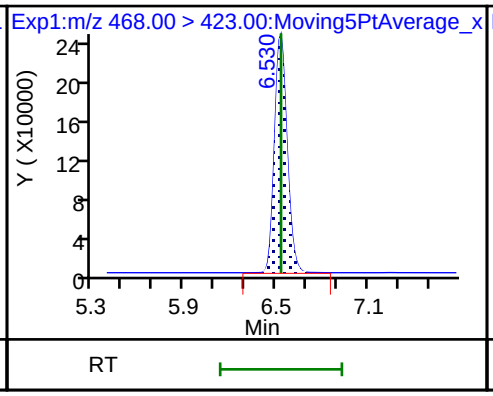
40 PFHxS



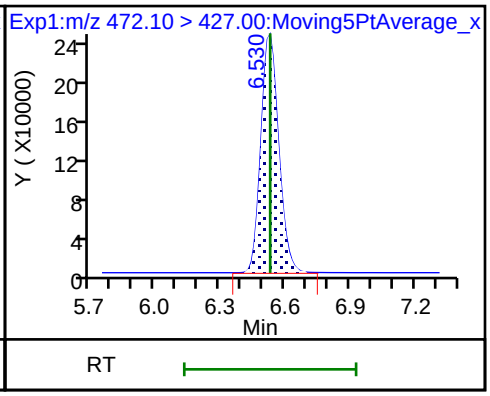
40 PFHxS



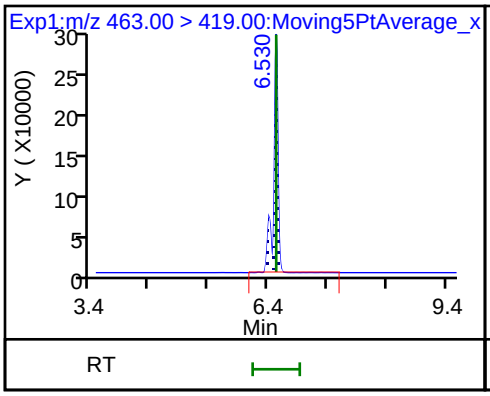
* 42 13C5 PFNA



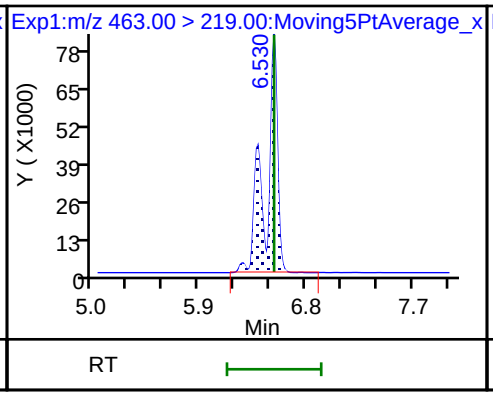
D 41 13C9 PFNA



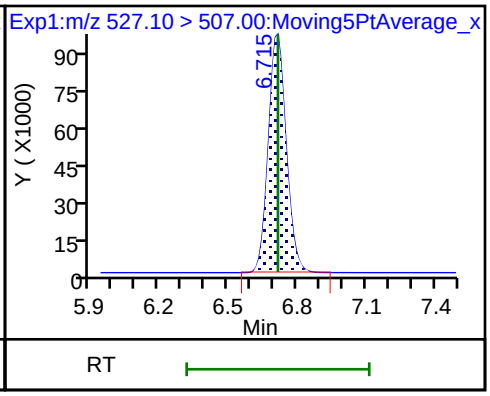
43 PFNA



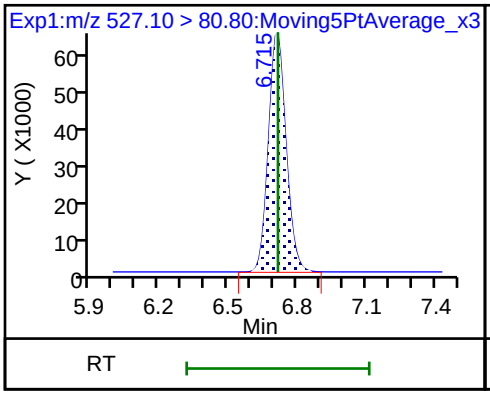
43 PFNA



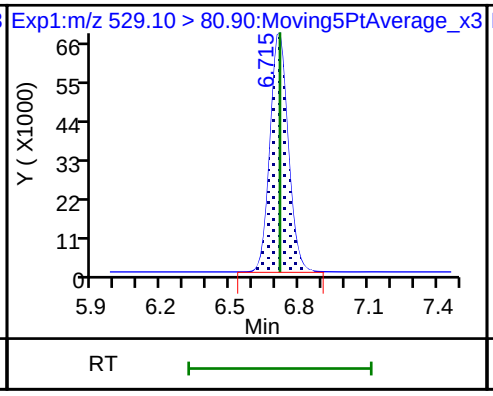
46 8:2FTS



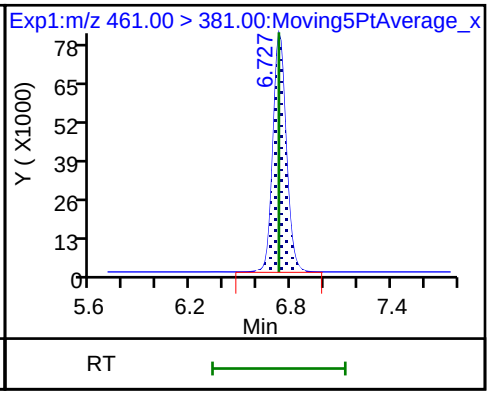
46 8:2FTS



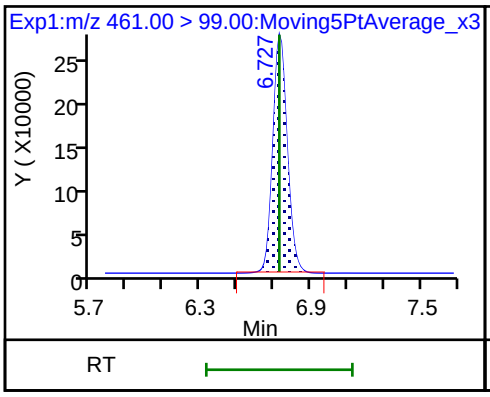
D 45 13C2-8:2FTS



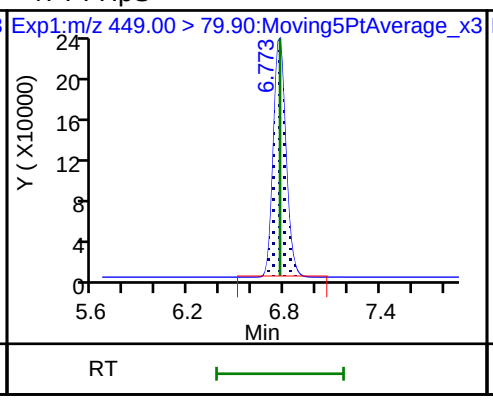
44 PFECHS



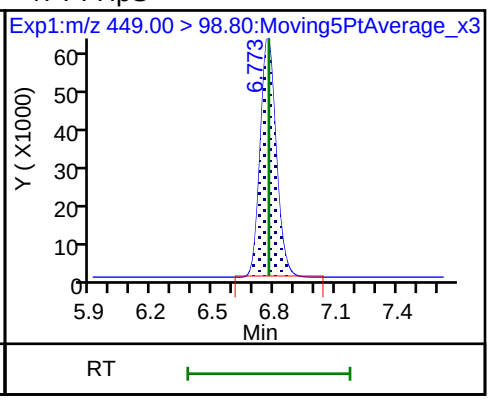
44 PFECHS



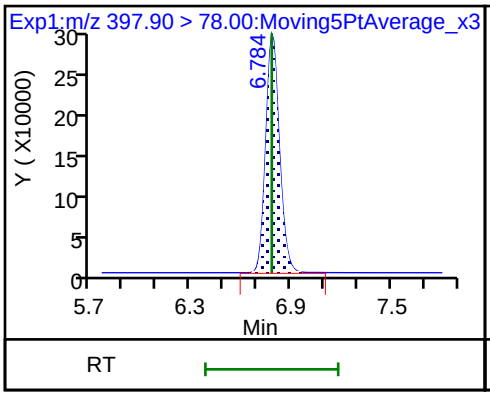
47 PFHpS



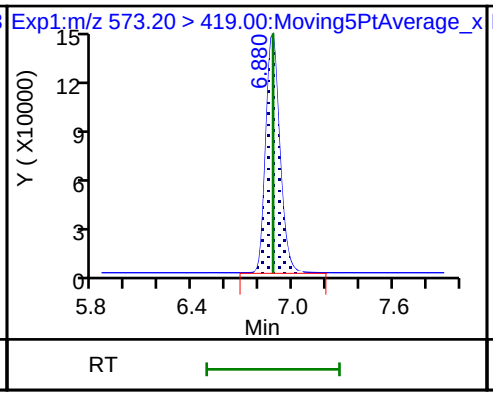
47 PFHpS



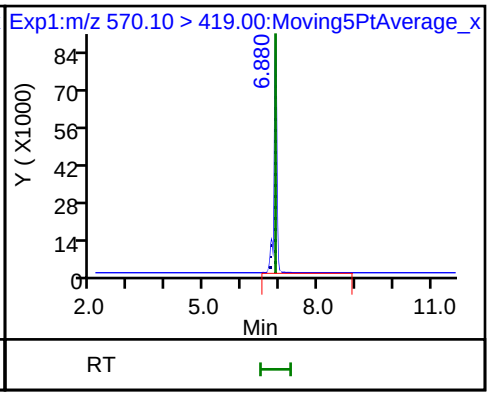
48 FHxSA



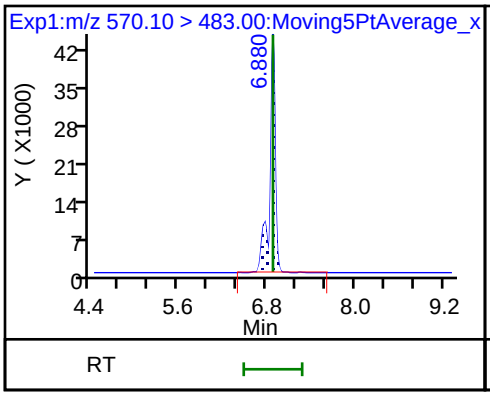
D 49 d3-NMeFOSAA



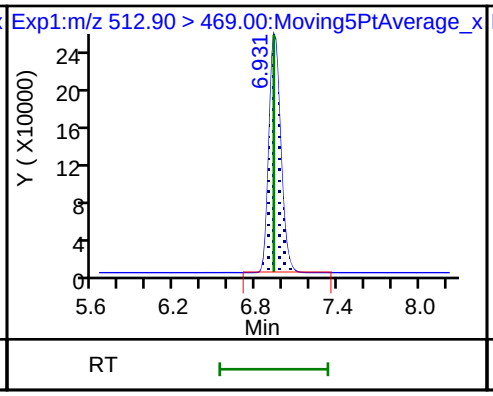
50 NMeFOSAA



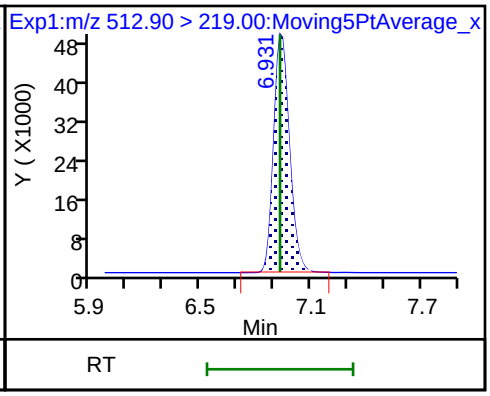
50 NMeFOSAA



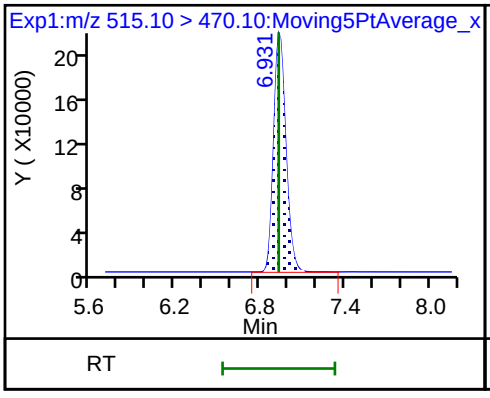
53 PFDA



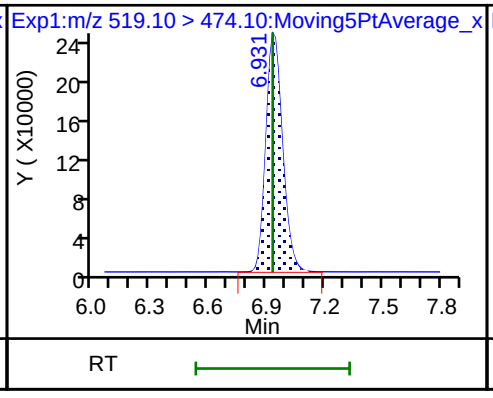
53 PFDA



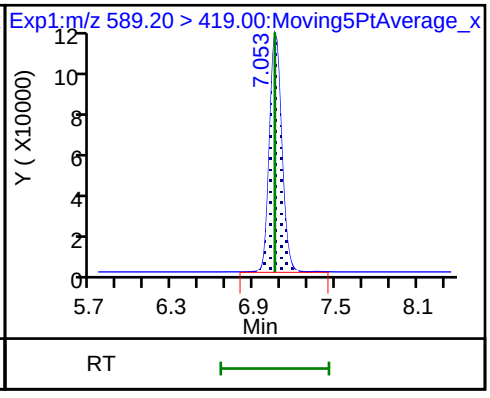
* 52 13C2 PFDA



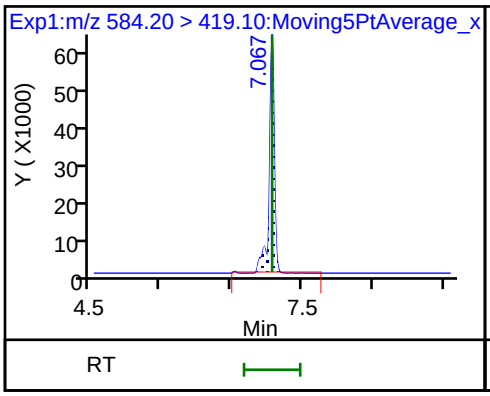
D 51 13C6 PFDA



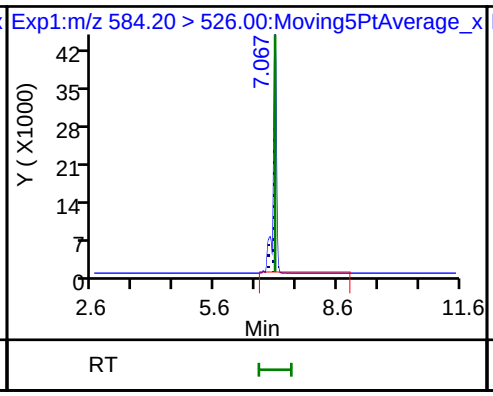
D 54 d5-NEtFOSAA



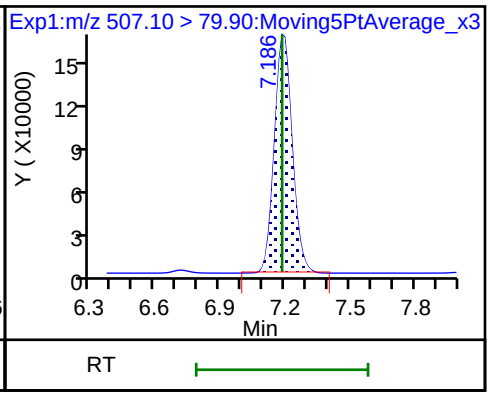
55 NEtFOSAA



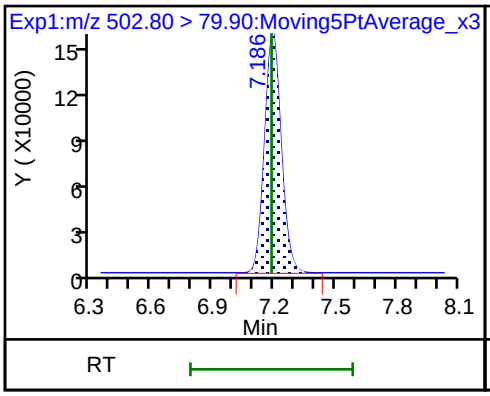
55 NEtFOSAA



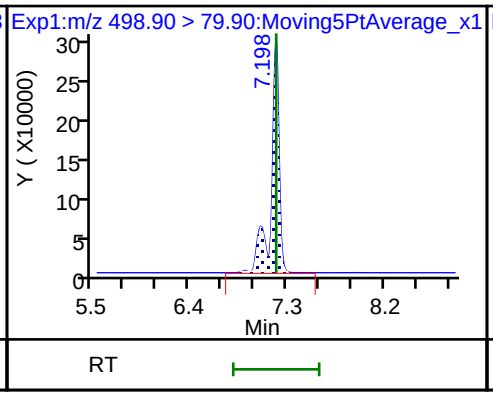
D 56 13C8 PFOS



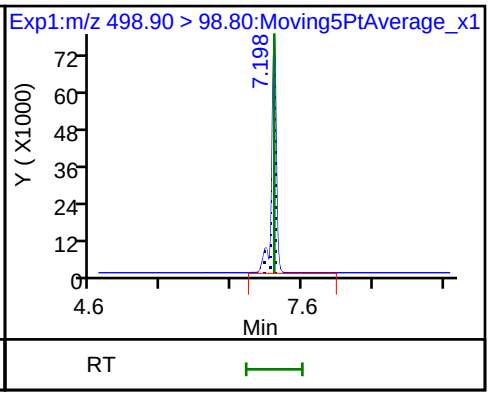
* 57 13C4 PFOS



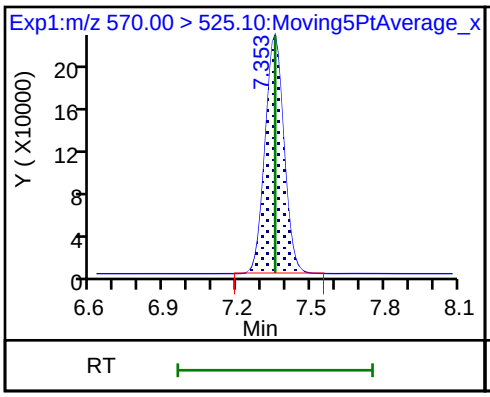
58 PFOS



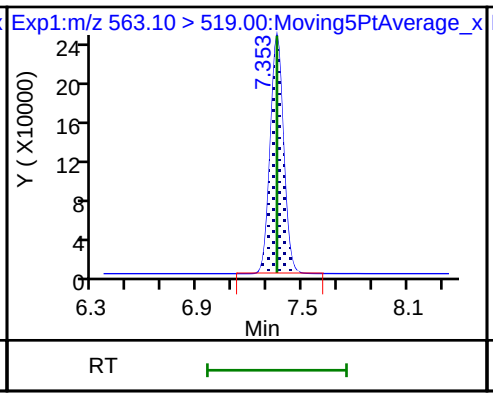
58 PFOS



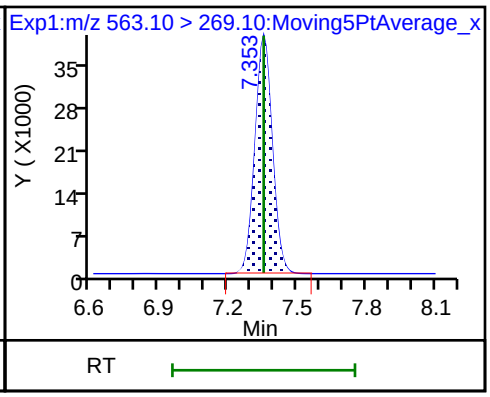
D 59 13C7 PFUnA



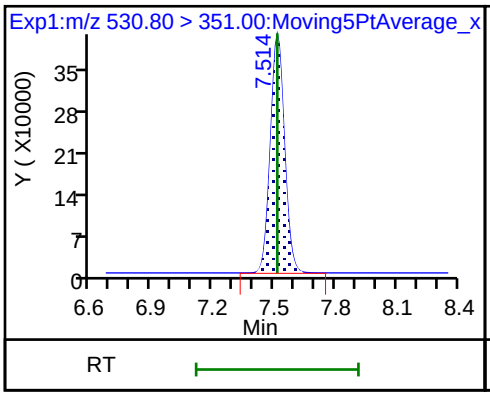
60 PFUnA



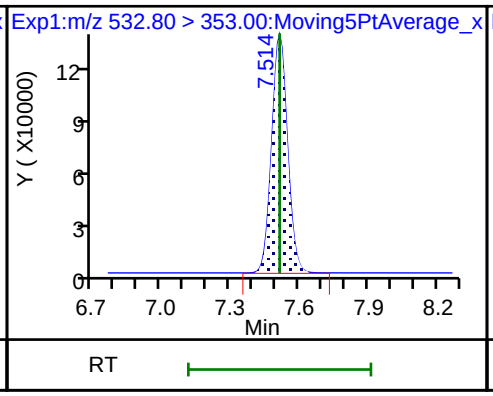
60 PFUnA



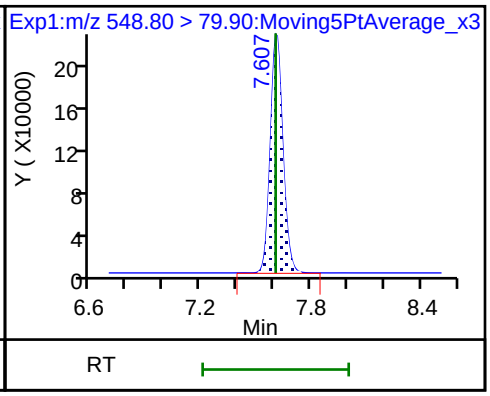
61 9ClFOS



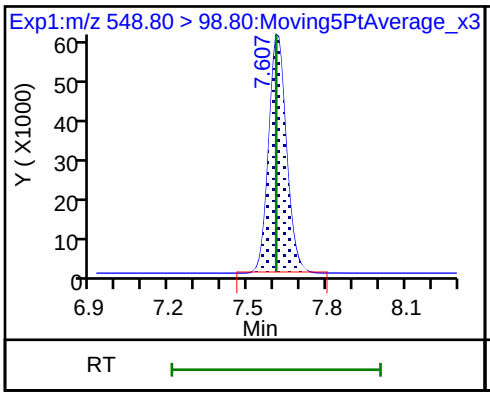
61 9ClFOS



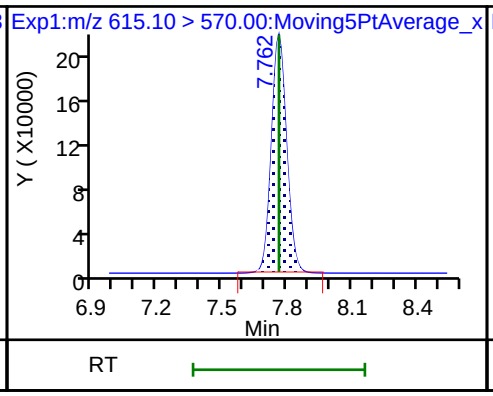
62 PFNS



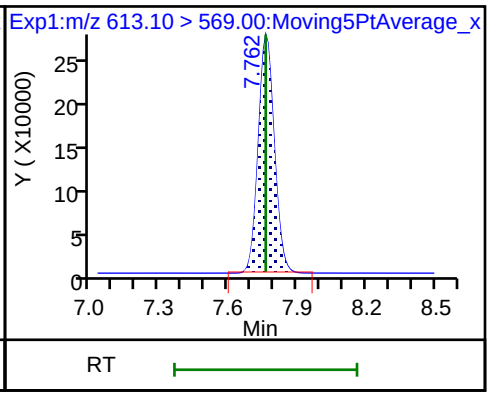
62 PFNS



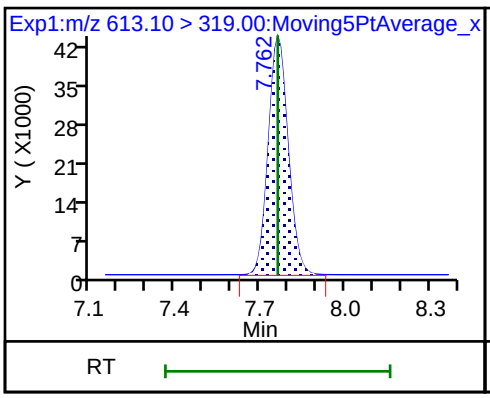
D 82 PFDoA



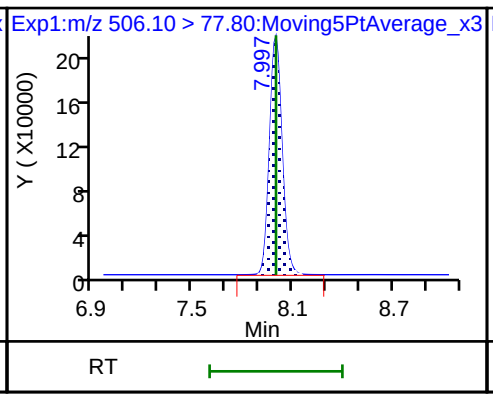
63 PFDoA



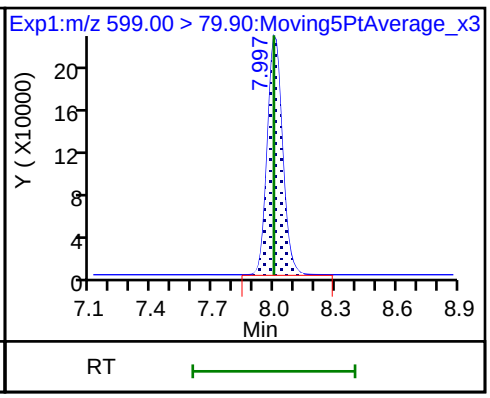
63 PFDoA



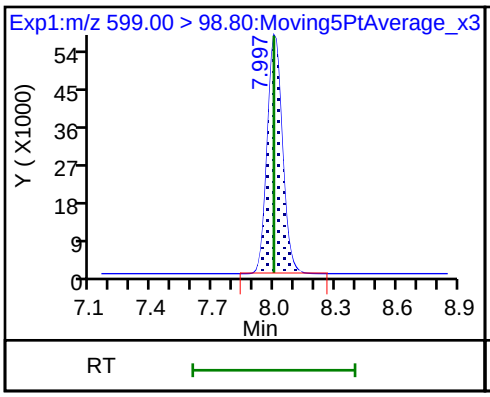
D 64 13C8 FOSA



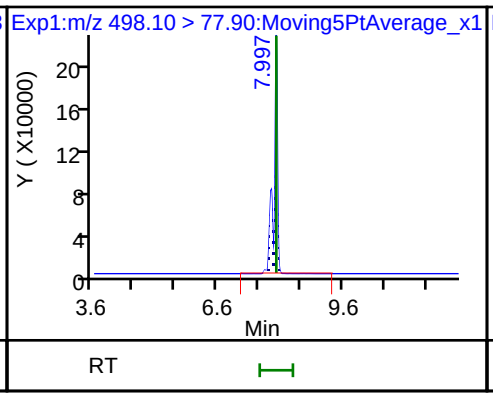
66 PFDS



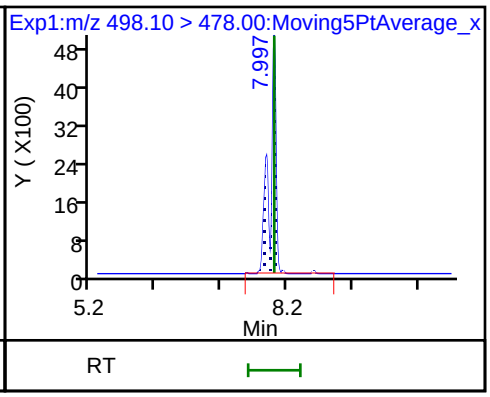
66 PFDS



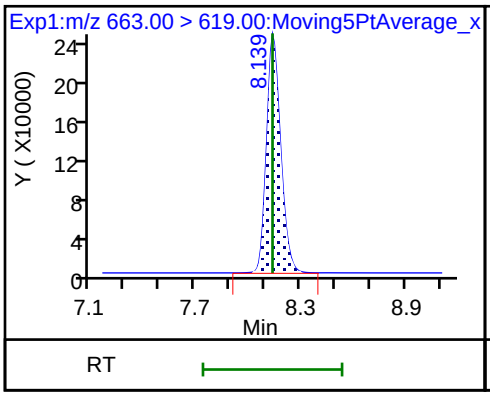
65 PFOSA



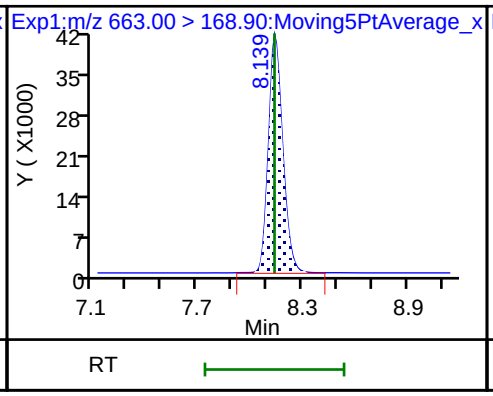
65 PFOSA



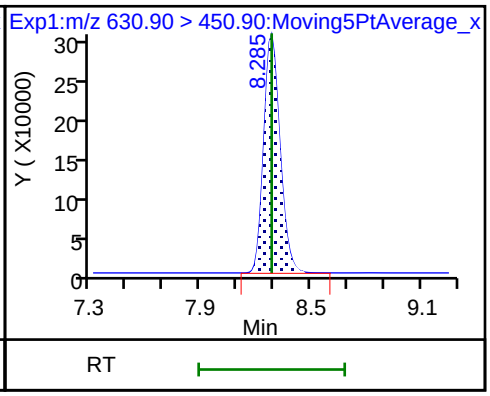
67 PFTrDA



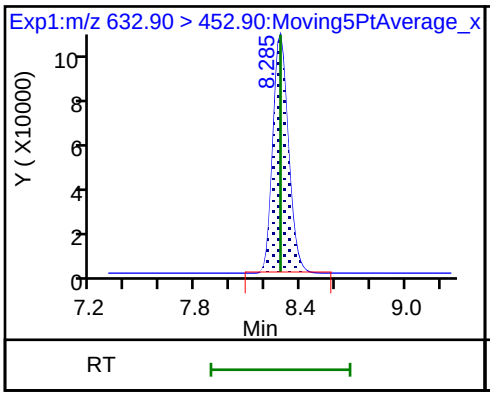
67 PFTrDA



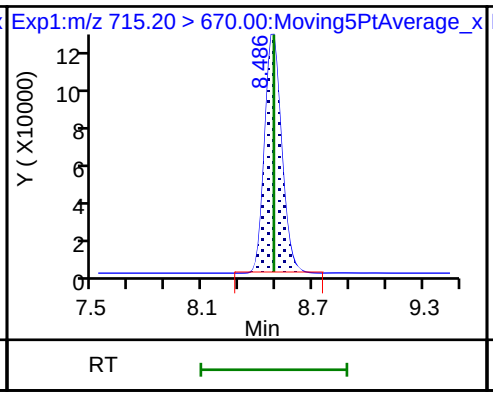
68 11ClFOS



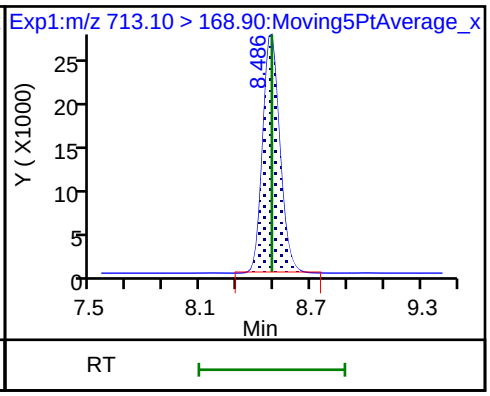
68 11ClFOS



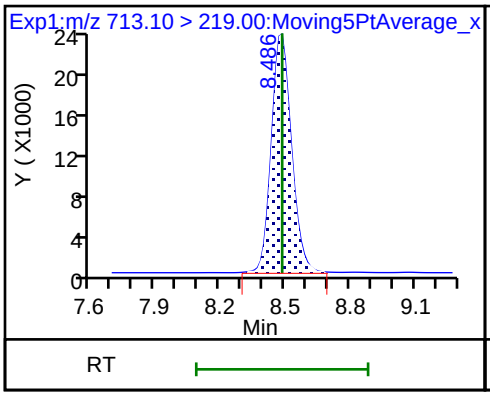
D 69 13C2 PFTeDA



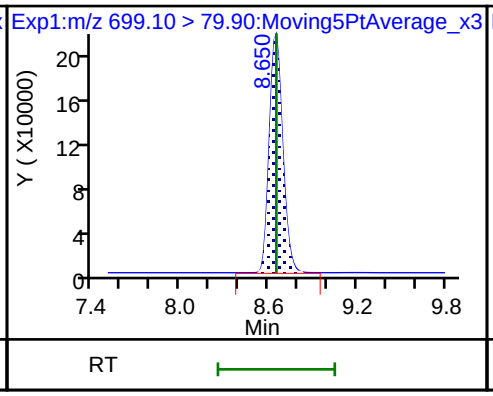
70 PFTeDA



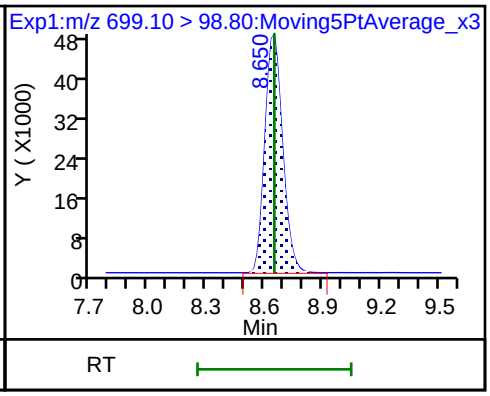
70 PFTeDA



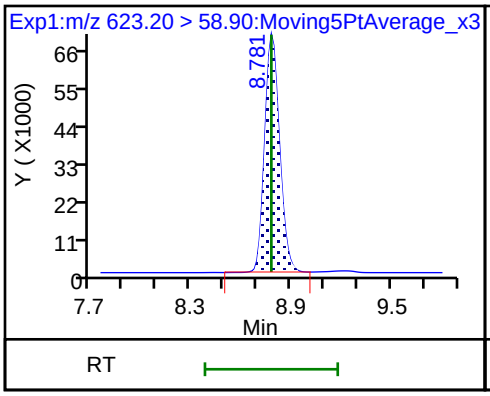
73 PFDoS



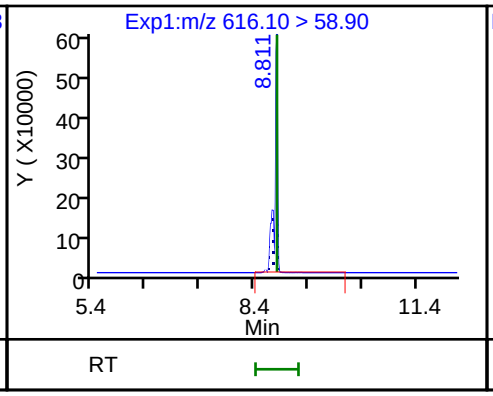
73 PFDoS



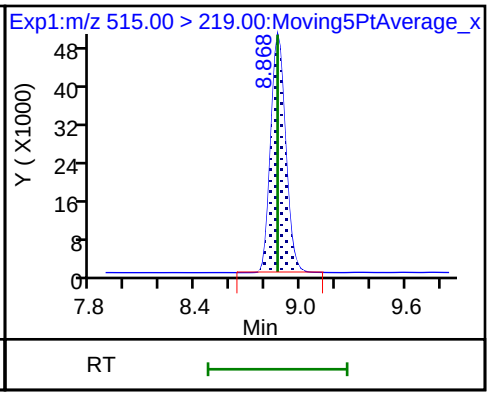
D 71 d7-N-Me-FOSE



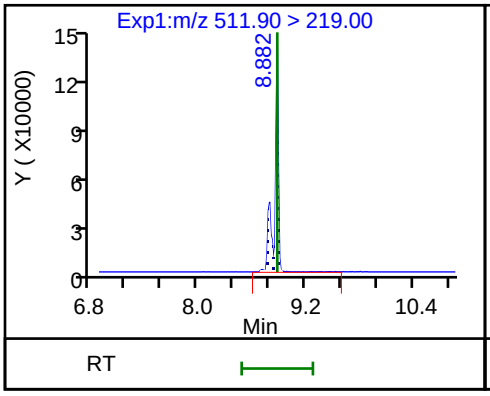
72 N-MeFOSE-M



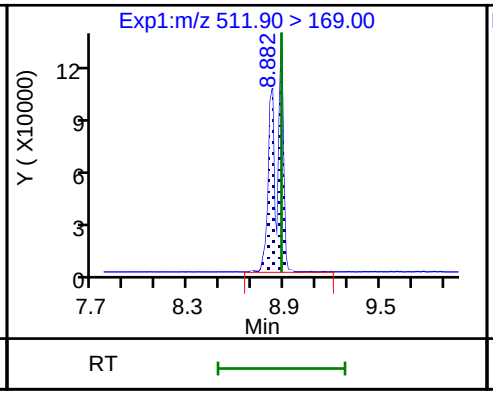
D 74 d3-NMePFOSA



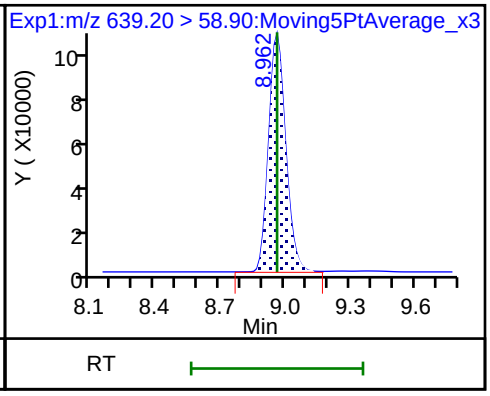
75 NMeFOSA



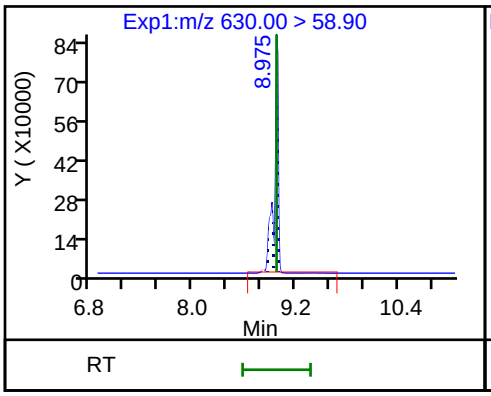
75 NMeFOSA



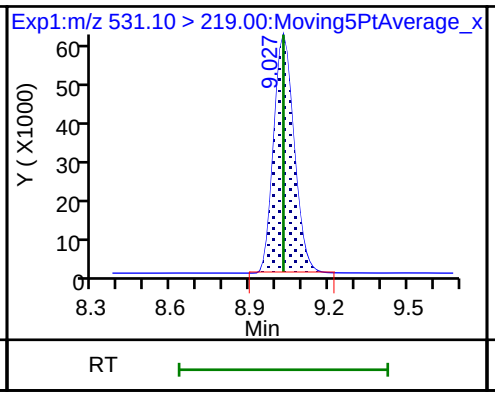
D 76 d9-N-EtFOSE



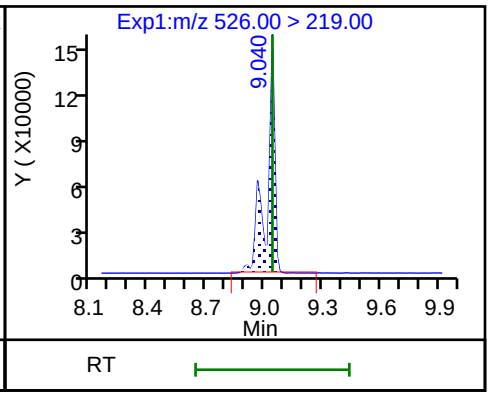
77 N-EtFOSE-M



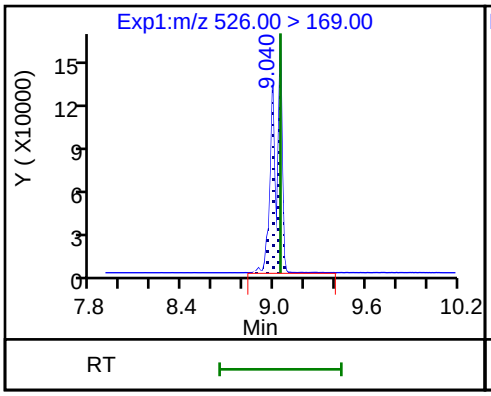
D 78 d5-NEtPFOSA



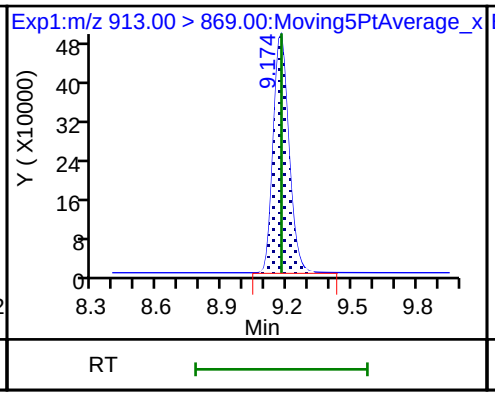
79 N-EtFOSA-M



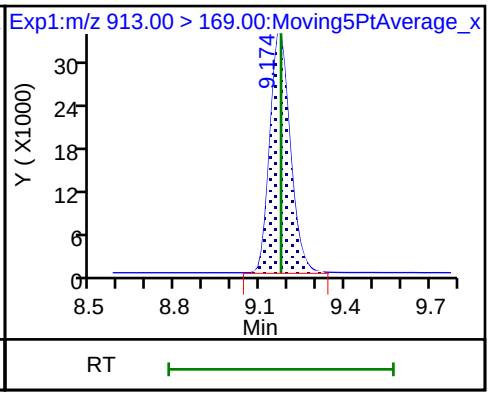
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-10.d
Lims ID: IC CAL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-Feb-2025 13:53:22 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL6
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:39:01 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:41:00
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.021	2.054	-0.033	0.984	8795189	23.5		93.8	39094	
D 1 13C3PFPrA										
166.00 > 121.00	2.053	2.054	-0.001	0.492	774013	1.97		98.7	16271	
5 PFBA										
212.80 > 168.90	4.173	4.181	-0.008	1.000	5724767	9.97		99.7	57312	
D 3 13C4-PFBA										
216.80 > 171.90	4.173	4.181	-0.008	1.000	1302718	1.99		99.3	68181	
* 4 13C3PFBA										
216.00 > 172.00	4.173	4.181	-0.008		1227538	2.00			36659	
6 PFMPA										
229.00 > 84.90	4.495	4.504	-0.009	0.933	3124030	4.73		94.5	156715	
7 3:3 FTCA										
241.00 > 177.00	4.517	4.516	0.001	0.937	354722	9.99	Target=1.19	99.9	23483	
241.00 > 117.00	4.505	4.516	-0.011	0.935	304207		1.17(0.60-1.79)	99.9	20304	
D 8 13C5 PFPeA										
268.30 > 223.00	4.819	4.832	-0.013	0.912	763292	1.84		91.8	51355	
9 PFPA										
263.00 > 219.00	4.819	4.832	-0.013	1.000	2728592	4.76		95.2	137019	
10 PFMBA										
279.00 > 85.10	4.973	4.975	-0.002	1.032	2994665	4.95		99.0	145155	
12 4:2FTS										
327.10 > 307.00	5.100	5.102	-0.002	1.002	1146754	9.58	Target=1.52	103	71023	
327.10 > 80.90	5.100	5.102	-0.002	1.002	750876		1.53(0.76-2.27)	103	45677	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.087	5.102	-0.015	0.804	377780	4.67		99.5	23007	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.242	5.244	-0.002	0.992	2147667	4.84	Target=1.35	96.7	124034	
295.00 > 84.90	5.242	5.244	-0.002	0.992	1612987		1.33(0.67-2.02)	96.7	92936	
* 16 13C2 PFHxA										
315.10 > 270.00	5.282	5.283	-0.001		3406920	5.00			200871	
17 PFHxA										
313.00 > 269.00	5.282	5.283	-0.001	1.000	2445472	4.80	Target=11.80	96.1	108300	
313.00 > 118.90	5.282	5.283	-0.001	1.000	228742		10.69(5.90-17.70)	96.1	13439	
D 15 13C5 PFHxA										
318.00 > 273.00	5.282	5.283	-0.001	1.000	1093917	1.82		90.8	64193	
20 5:3 FTCA										
341.00 > 237.10	5.356	5.357	-0.001	1.014	2206364	23.8	Target=1.01	95.2	93206	
341.00 > 217.00	5.356	5.357	-0.001	1.014	2359678		0.94(0.50-1.51)	95.2	100255	
D 18 13C3 PFBS										
302.10 > 79.90	5.399	5.414	-0.015	0.853	1063688	1.89		101	57609	
19 PFBS										
298.70 > 79.90	5.399	5.414	-0.015	1.000	2481521	4.42	Target=3.05	99.6	134097	
298.70 > 98.80	5.399	5.414	-0.015	1.000	790413		3.14(1.53-4.58)	99.6	42653	
25 FBSA										
297.90 > 78.00	5.399	5.414	-0.015	1.000	2883438	4.88		97.6	113263	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.470	5.470	0.0	1.035	1310467	1.76		88.0	70387	
22 HFPO-DA										
284.90 > 168.90	5.470	5.470	0.0	1.000	2472250	3.78	Target=2.44	101	133060	
284.90 > 184.90	5.470	5.470	0.0	1.000	1052871		2.35(1.22-3.66)	101	56942	
24 PFEESA										
314.80 > 134.90	5.638	5.653	-0.015	1.067	6583619	4.40	Target=12.34	98.7	358557	
314.80 > 82.90	5.638	5.653	-0.015	1.067	563401		11.69(6.17-18.50)	98.7	30703	
28 PFHpA										
363.10 > 319.00	5.708	5.708	0.0	1.000	2671688	5.01	Target=2.64	100	151898	
363.10 > 169.00	5.708	5.708	0.0	1.000	1023126		2.61(1.32-3.96)	100	58197	
D 26 13C4 PFHpA										
367.10 > 322.00	5.708	5.708	0.0	1.081	1119747	1.83		91.6	63579	
30 ADONA										
376.90 > 250.90	5.858	5.858	0.0	1.071	5766987	4.62	Target=1.75	97.6	19754	
376.90 > 84.80	5.858	5.858	0.0	1.071	3203216		1.80(0.87-2.62)	97.6	199666	
29 PFPeS										
349.10 > 79.90	5.892	5.893	-0.001	0.931	2392866	4.64	Target=3.14	98.8	150753	
349.10 > 98.90	5.881	5.893	-0.012	0.929	738461		3.24(1.57-4.71)	98.8	46256	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.903	5.916	-0.013	0.933	411513	4.85		102	26984	
32 6:2FTS										
427.10 > 407.00	5.903	5.916	-0.013	1.000	1185749	8.55	Target=1.62	90.2	77484	
427.10 > 80.90	5.903	5.916	-0.013	1.000	771462		1.54(0.81-2.43)	90.2	50470	
33 BTS										
280.00 > 147.00	6.033	6.034	-0.001	0.953	5671285	4.61		94.1	363742	
D 34 13C8 PFOA										
421.10 > 376.00	6.109	6.122	-0.013	0.998	1582438	2.03		102	74835	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.109	6.122	-0.013	1.000	3086984	4.91	Target=2.44	98.2	116252	
413.00 > 169.00	6.109	6.122	-0.013	1.000	1286375		2.40(1.22-3.66)	98.2	68702	
* 35 13C4 PFOA										
417.10 > 372.00	6.121	6.122	-0.001		3644968	5.00			472807	
39 7:3 FTCA										
441.00 > 316.90	6.193	6.194	-0.001	1.172	2731297	25.3	Target=0.91	101	122696	
441.00 > 336.90	6.193	6.194	-0.001	1.172	2908652		0.94(0.45-1.36)	101	130966	
D 38 13C3 PFHxS										
402.10 > 79.90	6.329	6.330	-0.001	1.000	991254	1.88		99.3	58129	
* 37 18O2 PFHxS										
403.00 > 83.90	6.329	6.330	-0.001		971237	1.89			57121	
40 PFHxS										
398.70 > 79.90	6.329	6.343	-0.014	1.000	1795478	4.16	Target=3.16	91.2	174475	
398.70 > 98.90	6.329	6.343	-0.014	1.000	563725		3.19(1.58-4.74)	91.2	119786	
43 PFNA										
463.00 > 419.00	6.530	6.530	0.0	1.002	2678115	4.85	Target=2.70	97.0	177861	
463.00 > 219.00	6.517	6.530	-0.013	1.000	985145		2.72(1.35-4.05)	97.0	149028	
* 42 13C5 PFNA										
468.00 > 423.00	6.517	6.530	-0.013		1306644	2.00			57438	
D 41 13C9 PFNA										
472.10 > 427.00	6.517	6.530	-0.013	1.000	1342737	2.01		100	59191	
46 8:2FTS										
527.10 > 507.00	6.704	6.715	-0.011	1.000	858731	8.33	Target=1.71	87.0	52912	
527.10 > 80.80	6.704	6.715	-0.011	1.000	594096		1.45(0.86-2.57)	87.0	36740	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.704	6.715	-0.011	1.059	355205	4.86		101	22112	
44 PFECHS										
461.00 > 381.00	6.727	6.727	0.0	1.063	749898	4.42	Target=0.29	95.7	45420	
461.00 > 99.00	6.727	6.727	0.0	1.063	2605440		0.29(0.14-0.43)	95.7	158001	
47 PFHpS										
449.00 > 79.90	6.761	6.773	-0.012	0.941	2325857	4.86	Target=3.62	102	144429	
449.00 > 98.80	6.761	6.773	-0.012	0.941	642120		3.62(1.81-5.43)	102	39765	
48 FHxSA										
397.90 > 78.00	6.773	6.784	-0.011	1.070	2931875	4.62		92.5	102469	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.867	6.880	-0.013	0.956	785711	5.24		105	45890	
50 NMeFOSAA										
570.10 > 419.00	6.880	6.880	0.0	1.002	772626	4.90	Target=1.87	97.9	169399	
570.10 > 483.00	6.880	6.880	0.0	1.002	405244		1.91(0.93-2.80)	97.9	78648	
53 PFDA										
512.90 > 469.00	6.931	6.931	0.0	1.000	2810570	4.99	Target=5.46	99.8	119318	
512.90 > 219.00	6.931	6.931	0.0	1.000	522419		5.38(2.73-8.19)	99.8	29418	
* 52 13C2 PFDA										
515.10 > 470.10	6.931	6.931	0.0		1241876	2.00			52025	
D 51 13C6 PFDA										
519.10 > 474.10	6.931	6.931	0.0	1.000	1306795	2.00		99.8	54925	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.053	7.053	0.0	0.982	660911	5.37		107	35368	
55 NEtFOSAA										
584.20 > 419.10	7.053	7.067	-0.014	1.000	558295	4.68	Target=1.40	93.7	108784	
584.20 > 526.00	7.053	7.067	-0.014	1.000	387059		1.44(0.70-2.10)	93.7	68821	
D 56 13C8 PFOS										
507.10 > 79.90	7.186	7.186	0.0	1.000	860511	1.95		102	8315	
* 57 13C4 PFOS										
502.80 > 79.90	7.186	7.186	0.0		823543	1.91			47690	
58 PFOS										
498.90 > 79.90	7.186	7.198	-0.012	1.000	2592488	4.53	Target=4.24	97.4	485293	
498.90 > 98.80	7.186	7.198	-0.012	1.000	615339		4.21(2.12-6.36)	97.4	134562	
D 59 13C7 PFUnA										
570.00 > 525.10	7.342	7.353	-0.011	1.059	1310606	2.14		107	61855	
60 PFUnA										
563.10 > 519.00	7.342	7.353	-0.011	1.000	2430064	4.61	Target=5.76	92.2	151881	
563.10 > 269.10	7.342	7.353	-0.011	1.000	425302		5.71(2.88-8.63)	92.2	26691	
61 9ClFOS										
530.80 > 351.00	7.505	7.514	-0.009	1.372	3799967	4.75	Target=3.18	102	265484	
532.80 > 353.00	7.505	7.514	-0.009	1.372	1175771		3.23(1.59-4.77)	102	82220	
62 PFNS										
548.80 > 79.90	7.607	7.607	0.0	1.059	1888224	4.82	Target=3.81	100	133212	
548.80 > 98.80	7.607	7.607	0.0	1.059	493570		3.83(1.90-5.71)	100	34465	
D 82 PFDoA										
615.10 > 570.00	7.752	7.762	-0.010	1.119	1054381	2.05		103	71239	
63 PFDoA										
613.10 > 569.00	7.752	7.762	-0.010	1.000	2292218	4.64	Target=6.16	92.8	116368	
613.10 > 319.00	7.752	7.762	-0.010	1.000	386742		5.93(3.08-9.25)	92.8	26244	
D 64 13C8 FOSA										
506.10 > 77.80	7.987	7.997	-0.010	1.111	1108085	2.11		105	53119	
66 PFDS										
599.00 > 79.90	7.997	7.997	0.0	1.113	1965728	4.70	Target=3.75	97.4	128670	
599.00 > 98.80	7.997	7.997	0.0	1.113	525530		3.74(1.87-5.62)	97.4	34368	
65 PFOSA										
498.10 > 77.90	7.987	7.997	-0.010	1.000	2377980	4.76	Target=46.29	95.1	412615	
498.10 > 478.00	7.987	7.997	-0.010	1.000	58440		40.69(23.15-69.44)	95.1	9895	
67 PFTrDA										
663.00 > 619.00	8.139	8.139	0.0	0.961	2492924	4.85	Target=5.80	97.1	148027	
663.00 > 168.90	8.139	8.139	0.0	0.961	448574		5.56(2.90-8.70)	97.1	26558	
68 11ClFOS										
630.90 > 450.90	8.272	8.285	-0.013	1.512	3544788	4.70	Target=3.09	99.6	191366	
632.90 > 452.90	8.272	8.285	-0.013	1.512	1166794		3.04(1.55-4.64)	99.6	63347	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.472	8.486	-0.014	1.222	740742	2.04		102	38941	
70 PFTeDA										
713.10 > 168.90	8.472	8.486	-0.014	1.000	315667	4.86	Target=1.18	97.3	16438	
713.10 > 219.00	8.472	8.486	-0.014	1.000	278286		1.13(0.59-1.77)	97.3	14582	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.635	8.650	-0.016	1.202	2164315	4.69	Target=4.45	96.7	84582	
699.10 > 98.80	8.635	8.650	-0.016	1.202	466669		4.64(2.23-6.68)	96.7	24385	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.782	8.781	0.001	1.222	439628	5.38		108	10176	
72 N-MeFOSE-M										
616.10 > 58.90	8.796	8.811	-0.015	1.002	3946803	24.4		97.5	24677	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.868	8.868	0.0	1.234	303467	2.20		110	12881	
75 NMeFOSA										
511.90 > 219.00	8.882	8.882	0.0	1.002	711948	4.51	Target=0.73	90.3	239012	
511.90 > 169.00	8.882	8.882	0.0	1.002	979302		0.73(0.36-1.09)	90.3	239635	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.963	8.962	0.001	1.247	543360	5.11		102	13963	
77 N-EtFOSE-M										
630.00 > 58.90	8.975	8.975	0.0	1.001	4933474	24.9		99.5	47075	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.027	9.027	0.0	1.256	332843	2.14		107	20589	
79 N-EtFOSA-M										
526.00 > 219.00	9.040	9.040	0.0	1.001	821489	4.60	Target=0.82	92.0	289669	
526.00 > 169.00	9.040	9.040	0.0	1.001	1032445		0.80(0.41-1.22)	92.0	149245	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.162	9.174	-0.012	1.081	4573551	4.85	Target=14.83	97.0	77298	
913.00 > 169.00	9.162	9.174	-0.012	1.081	307473		14.87(7.41-22.24)	97.0	20766	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL6_00016 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:39:02 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-10.d

Injection Date: 12-Feb-2025 13:53:22 Instrument ID: 30576

Lims ID: IC CAL 6

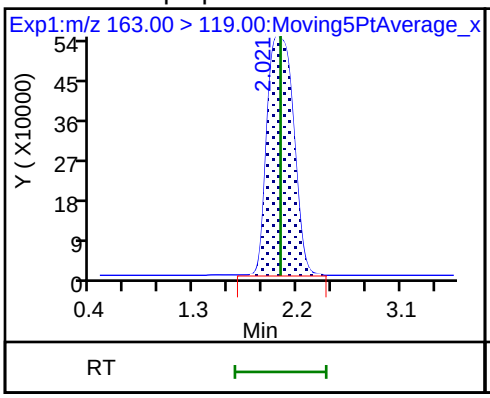
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 7 Worklist Smp#: 6

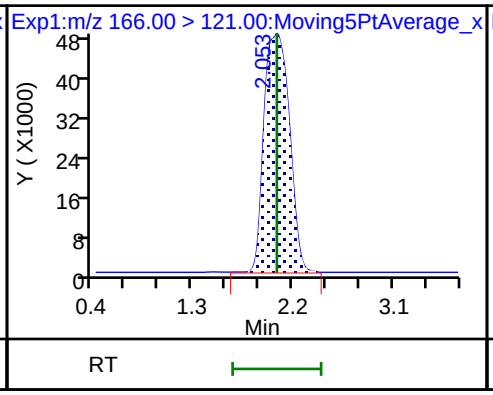
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

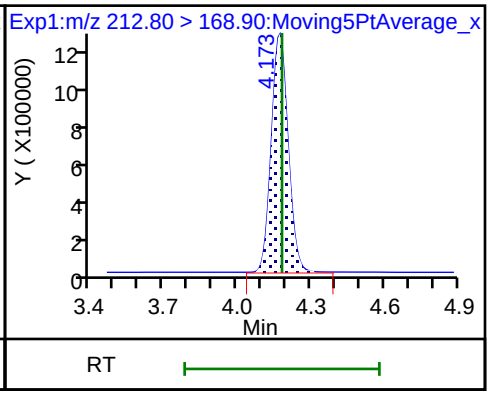
2 Perfluoropropionic acid



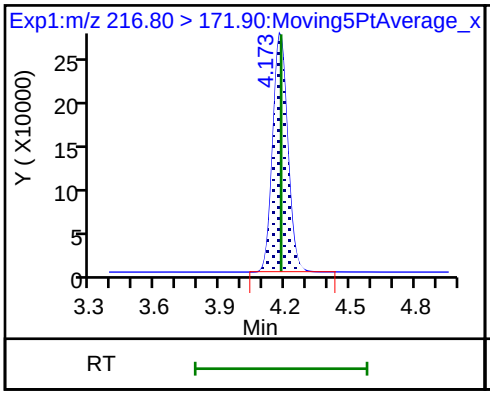
D 1 13C3PFPrA



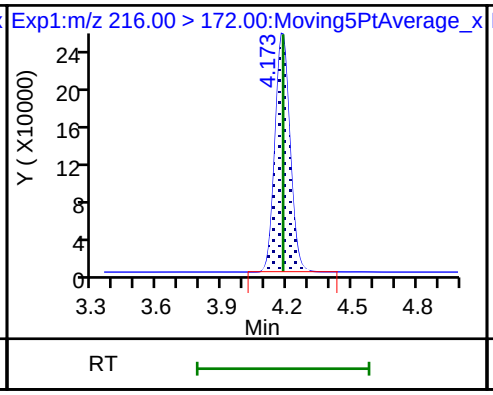
5 PFBA



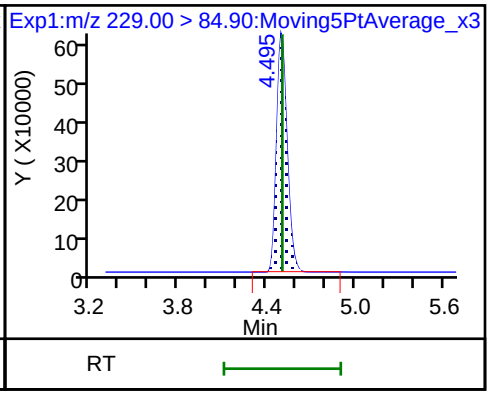
D 3 13C4-PFBA



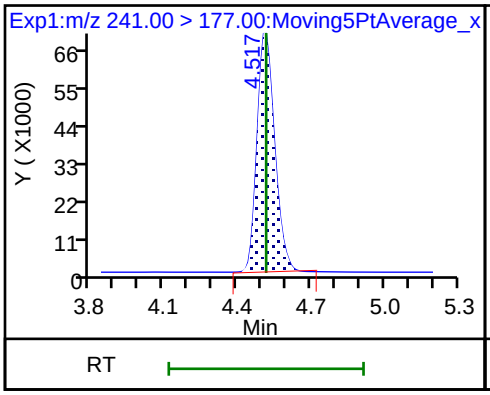
* 4 13C3PFBA



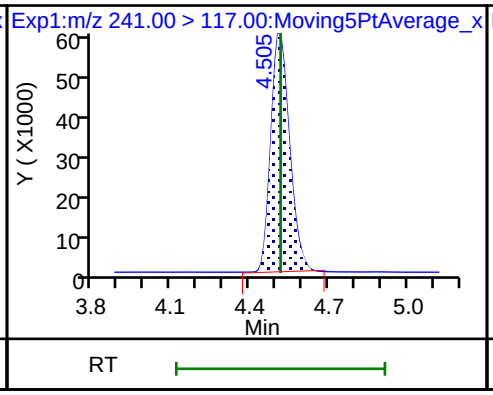
6 PFMPA



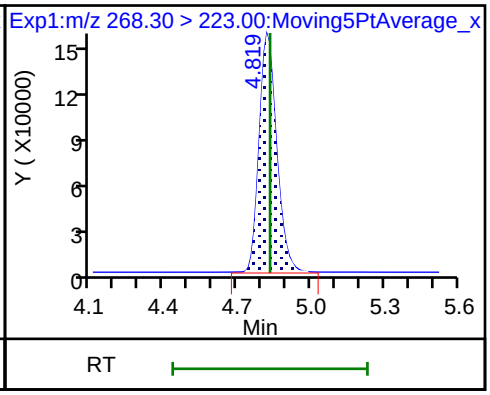
7 3:3 FTCA



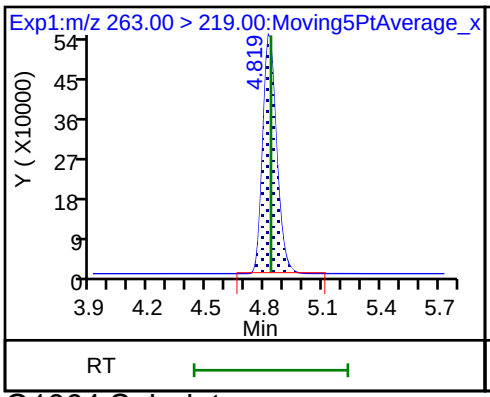
7 3:3 FTCA



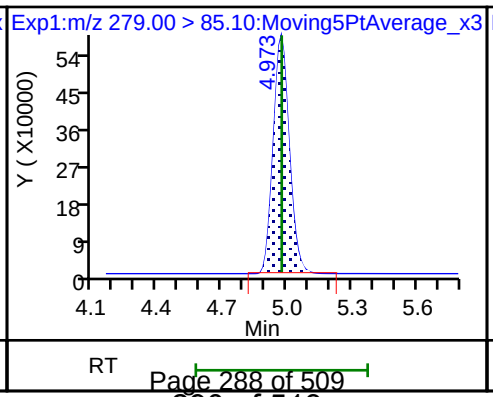
D 8 13C5 PFPeA



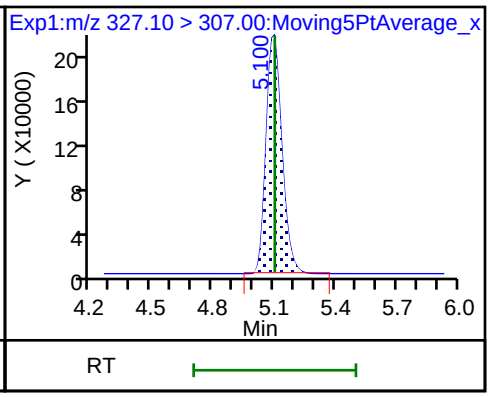
9 PFPA



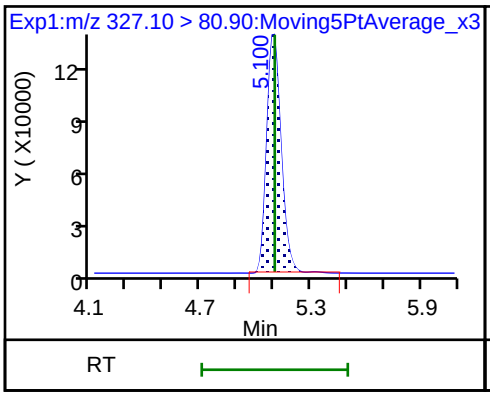
10 PFMBA



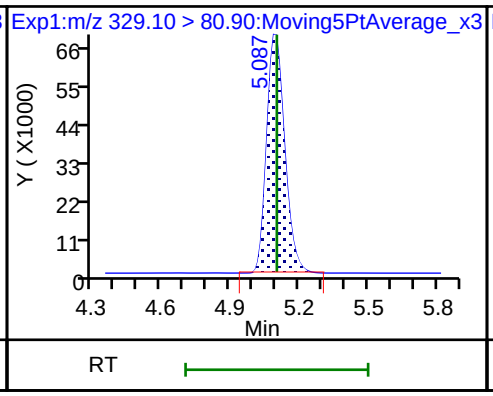
12 4:2FTS



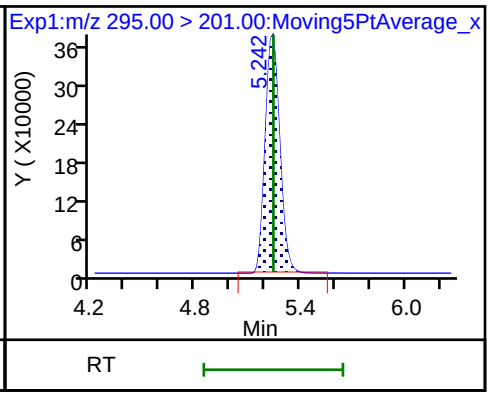
12 4:2FTS



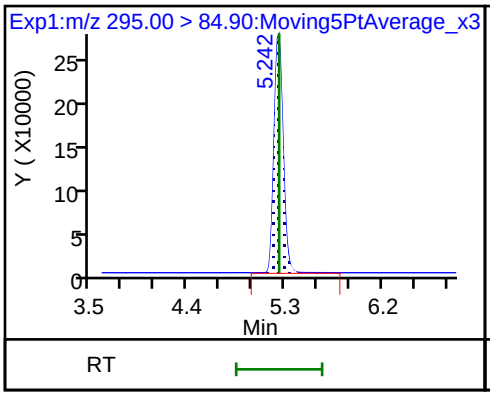
D 11 13C2-4:2FTS



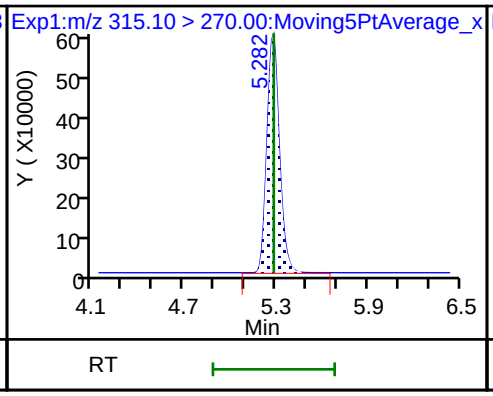
14 NFDHA



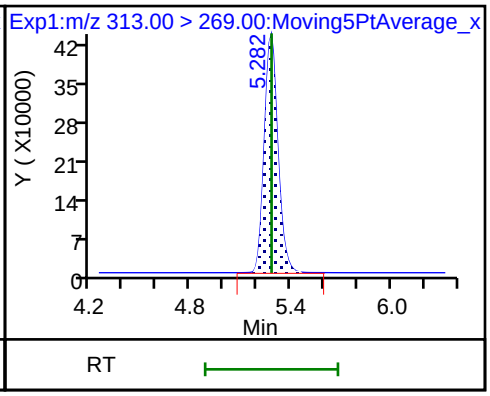
14 NFDHA



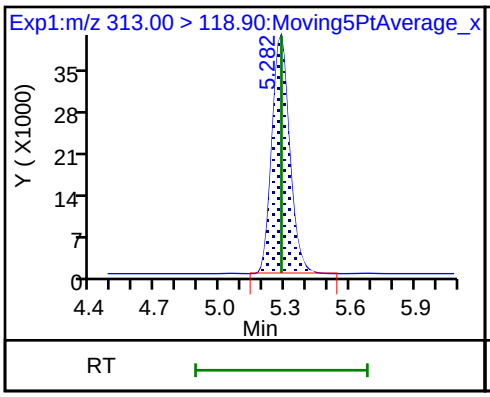
* 16 13C2 PFHxA



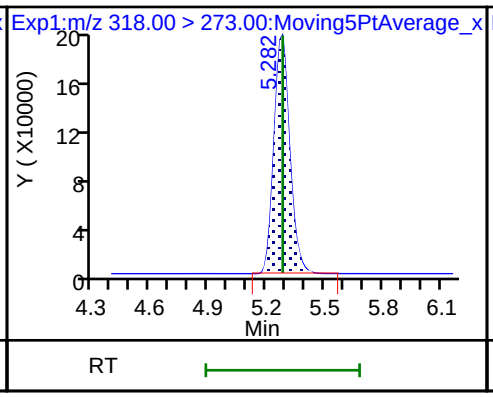
17 PFHxA



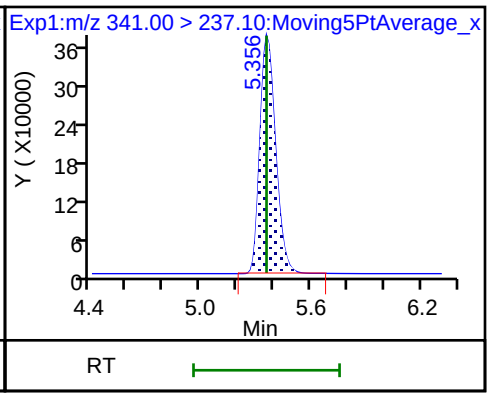
17 PFHxA



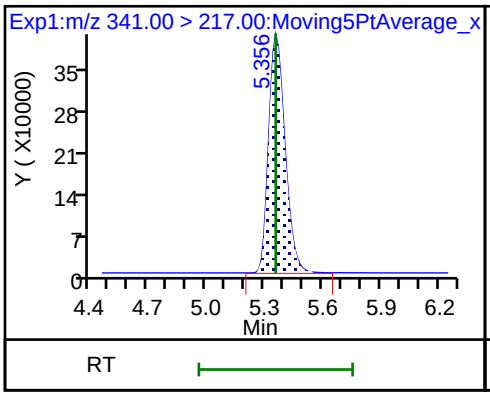
D 15 13C5 PFHxA



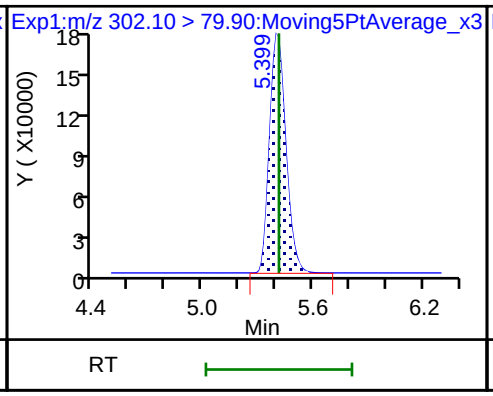
20 5:3 FTCA



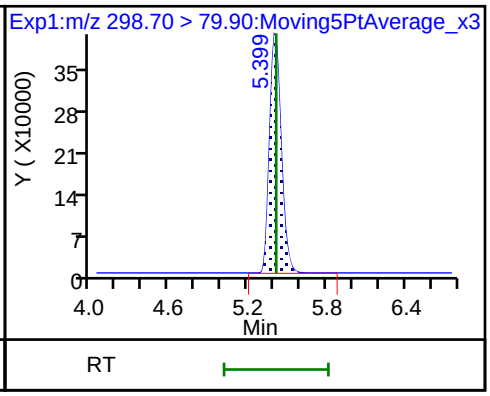
20 5:3 FTCA



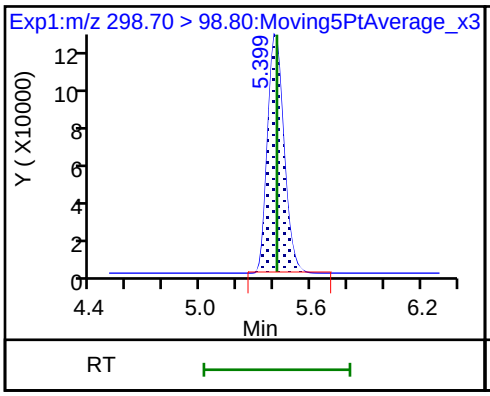
D 18 13C3 PFBS



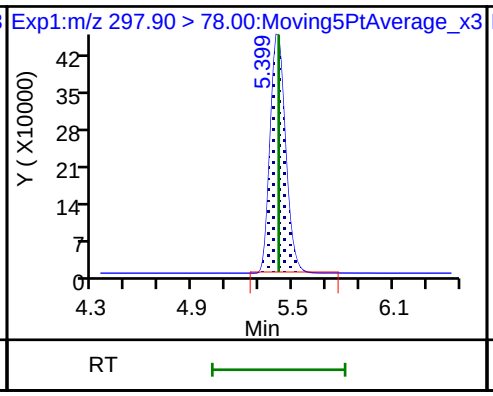
19 PFBS



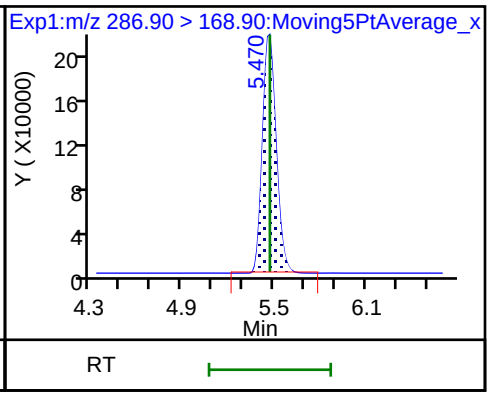
19 PFBS



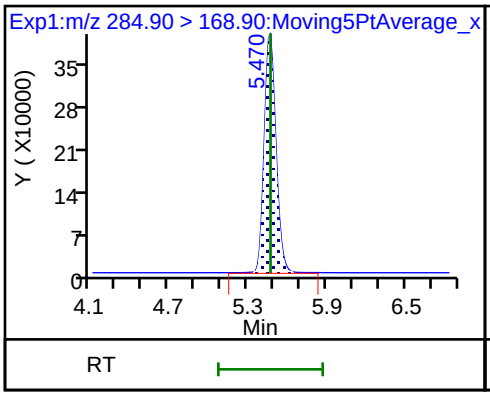
25 FBSA



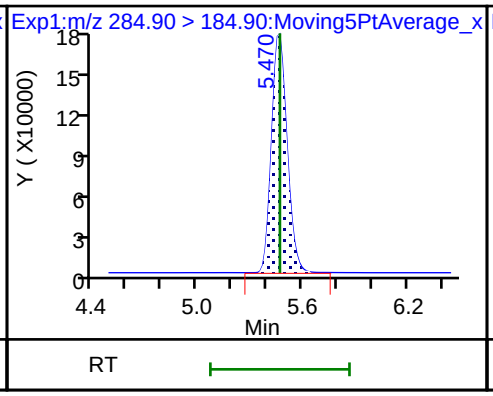
D 21 13C3 HFPO-DA



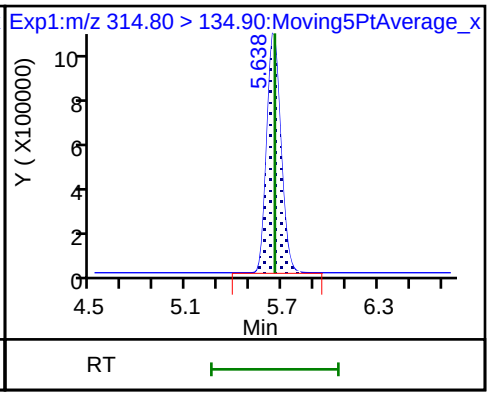
22 HFPO-DA



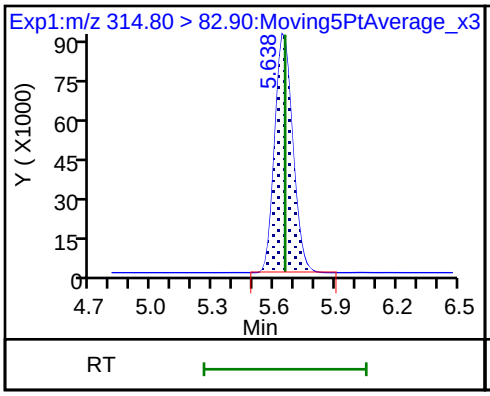
22 HFPO-DA



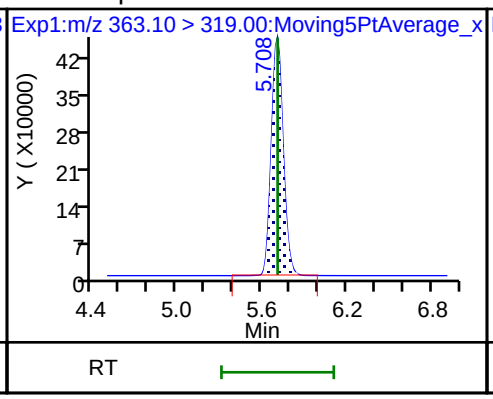
24 PFEESA



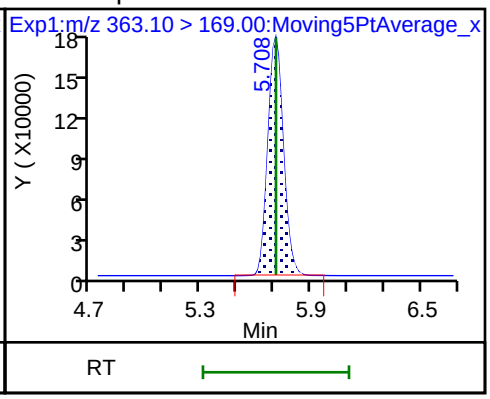
24 PFEESA



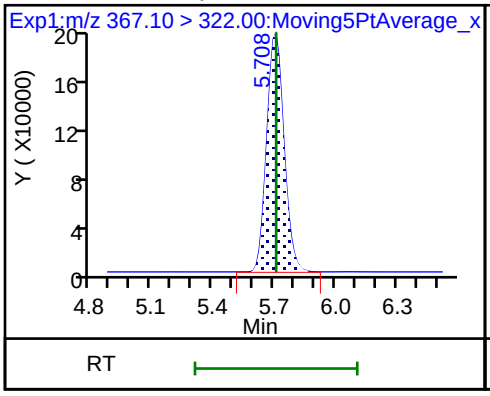
28 PFHpA



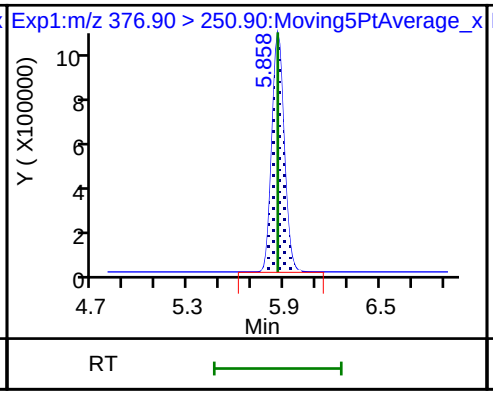
28 PFHpA



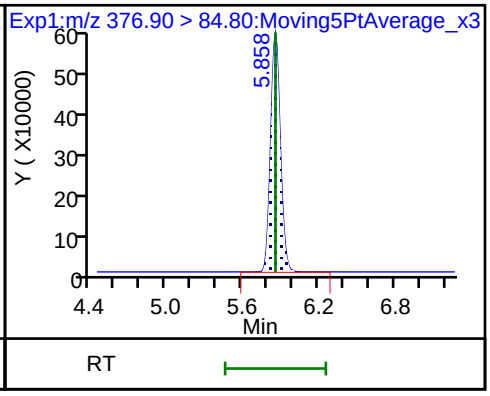
D 26 13C4 PFHpA



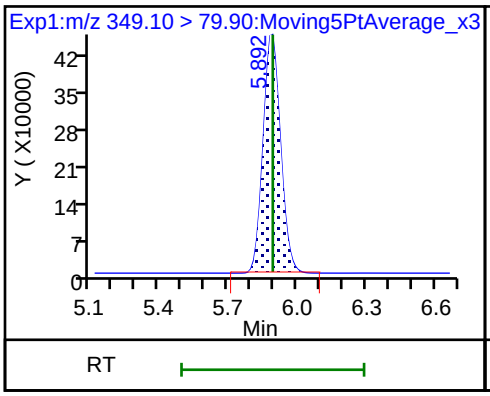
30 ADONA



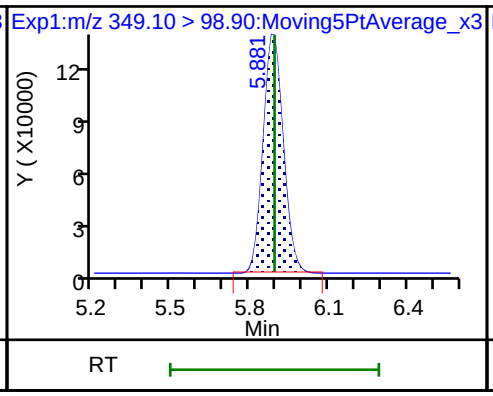
30 ADONA



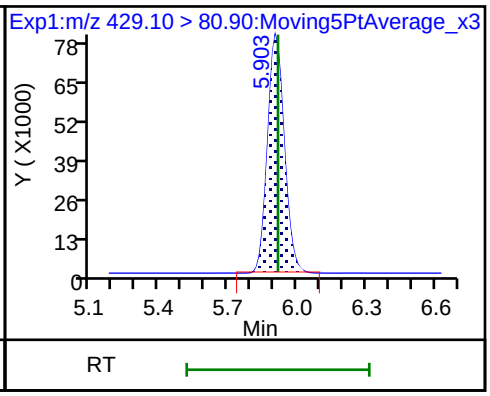
29 PFPeS



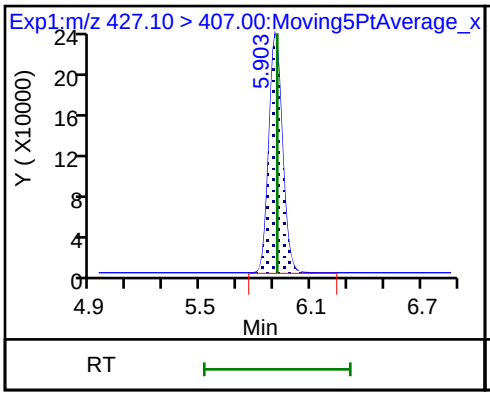
29 PFPeS



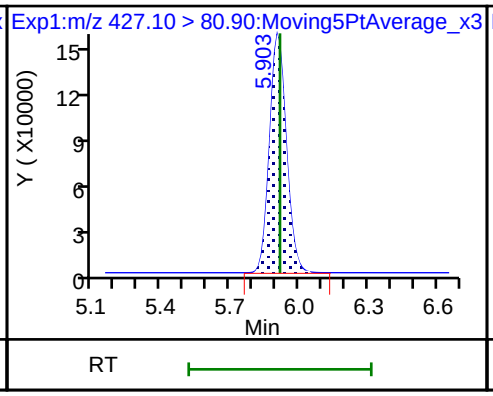
D 31 13C2-6:2FTS



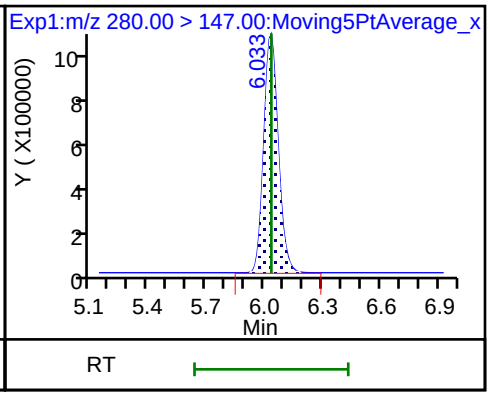
32 6:2FTS



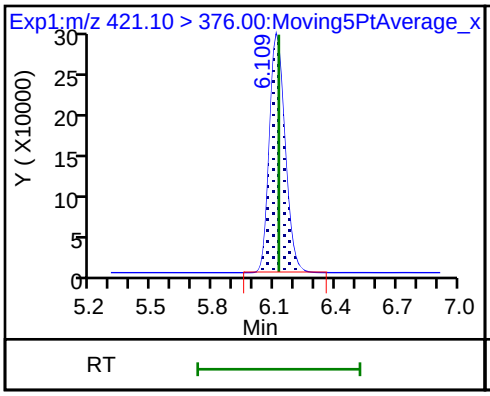
32 6:2FTS



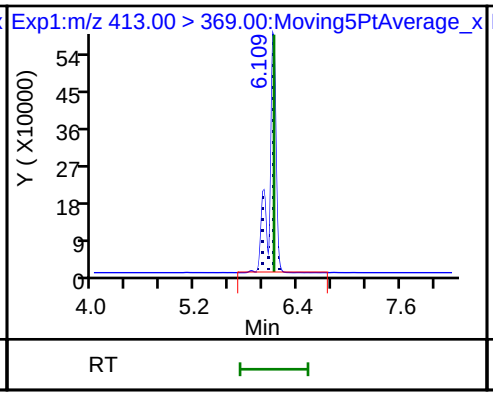
33 BTS



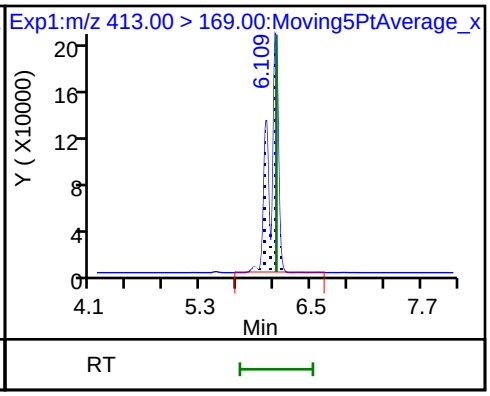
D 34 13C8 PFOA



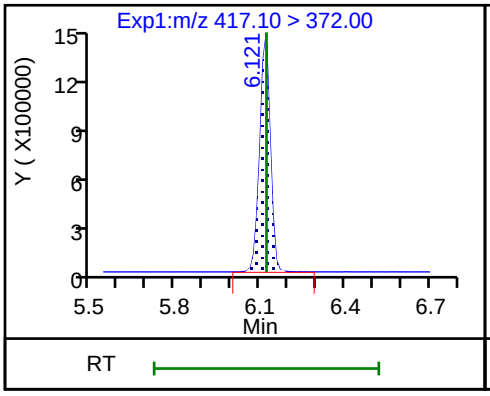
36 PFOA



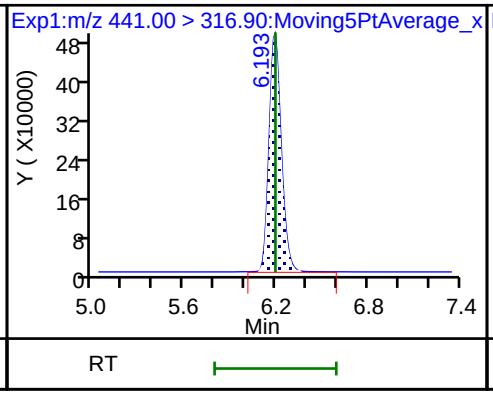
36 PFOA



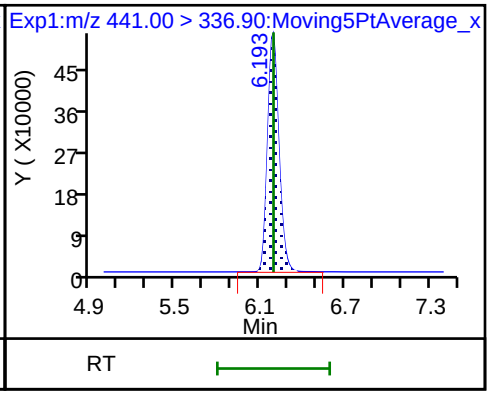
* 35 13C4 PFOA



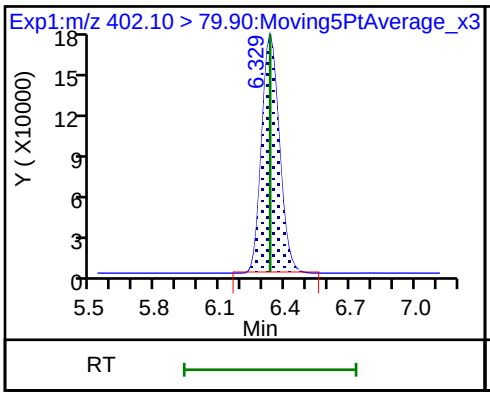
39 7:3 FTCA



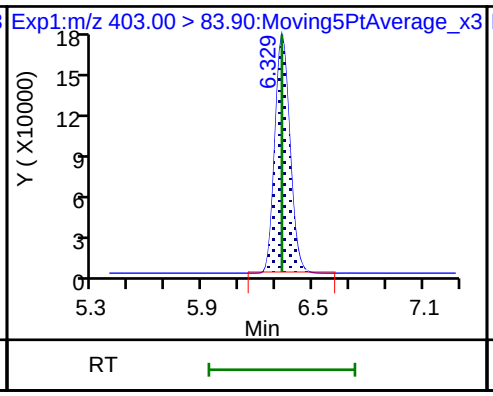
39 7:3 FTCA



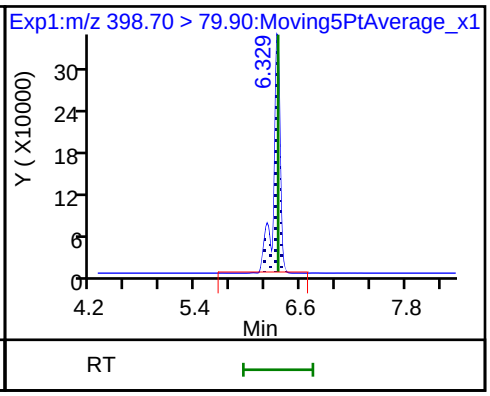
D 38 13C3 PFHxS



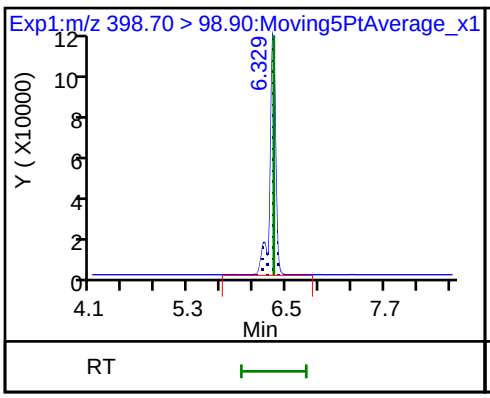
* 37 18O2 PFHxS



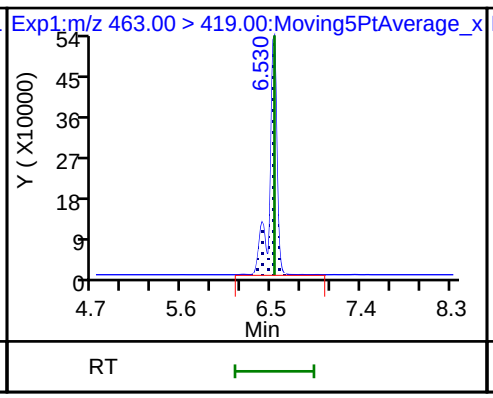
40 PFHxS



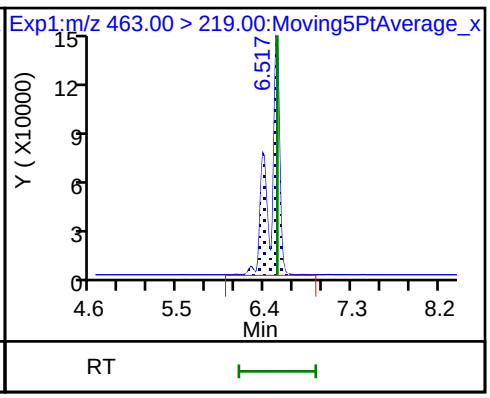
40 PFHxS



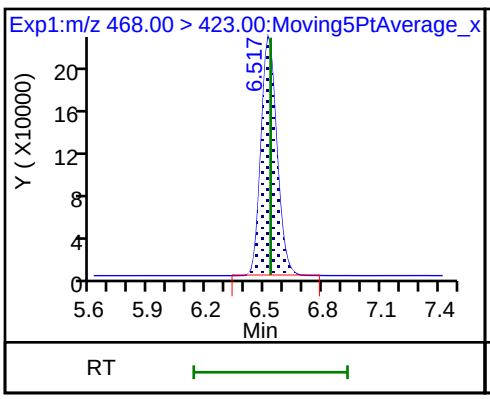
43 PFNA



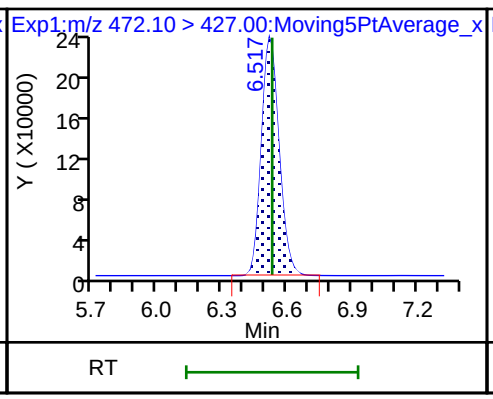
43 PFNA



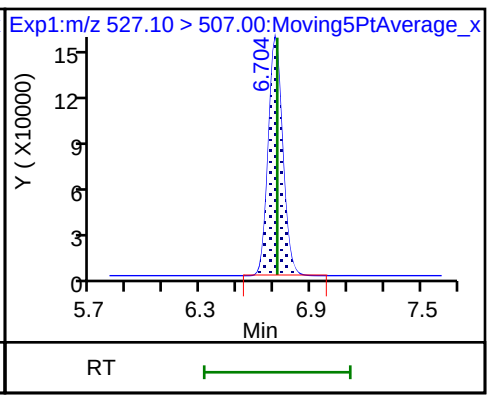
* 42 13C5 PFNA



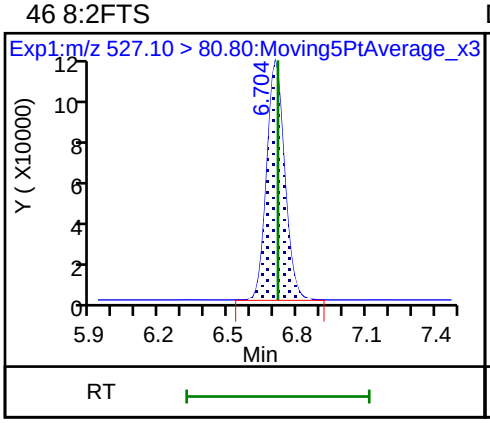
D 41 13C9 PFNA



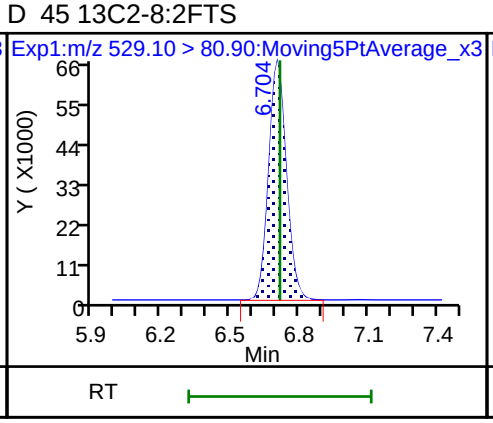
46 8:2FTS



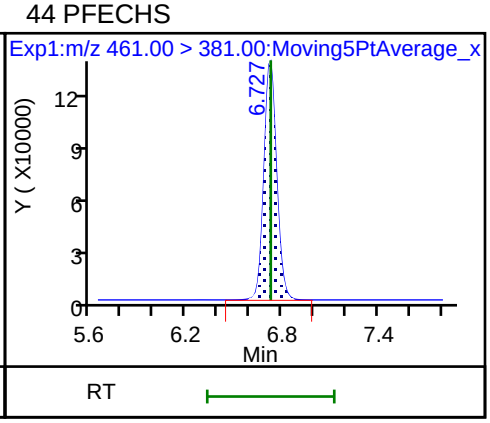
46 8:2FTS



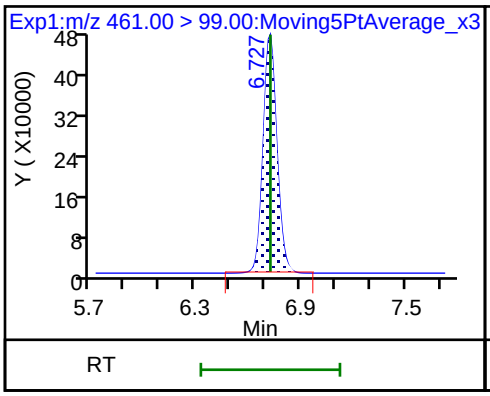
D 45 13C2-8:2FTS



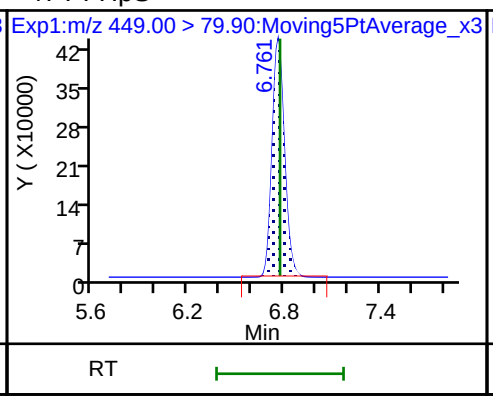
44 PFECHS



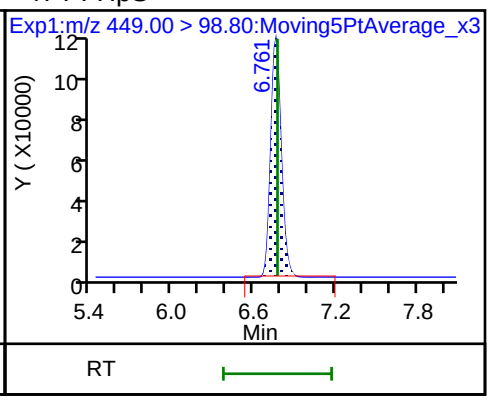
44 PFECHS



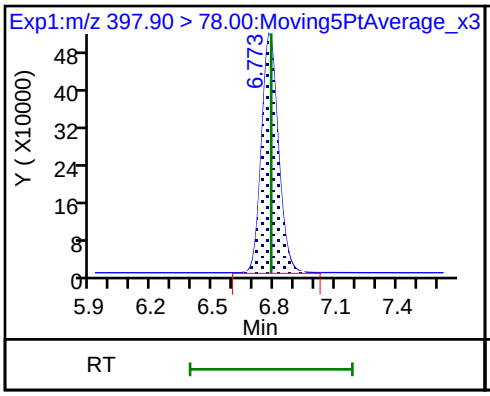
47 PFHpS



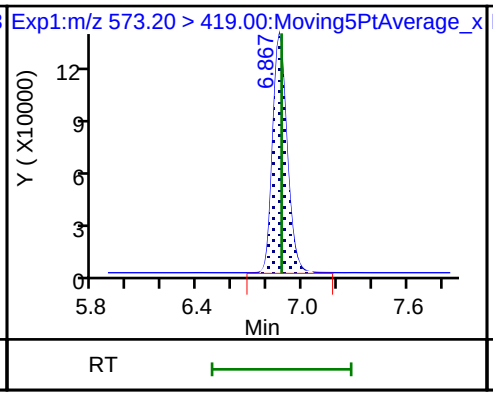
47 PFHpS



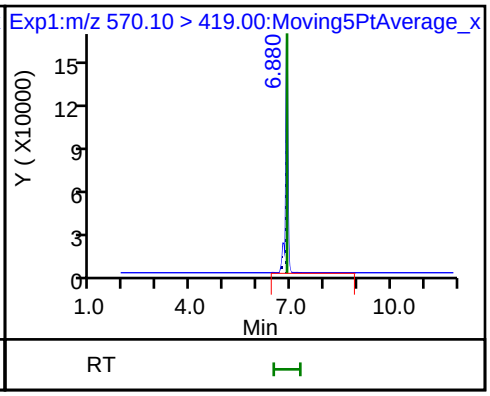
48 FHxSA



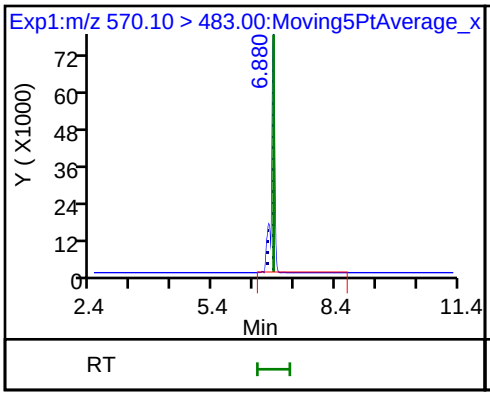
D 49 d3-NMeFOSAA



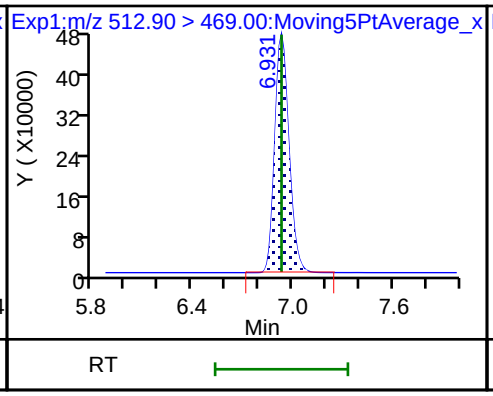
50 NMeFOSAA



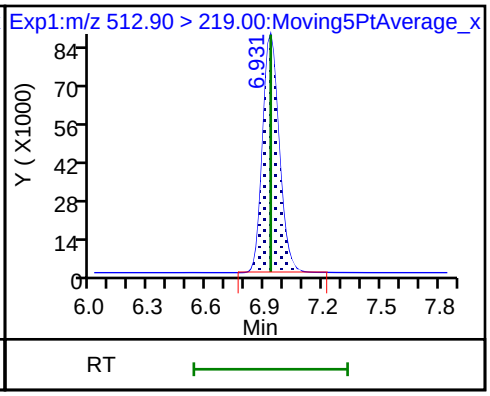
50 NMeFOSAA



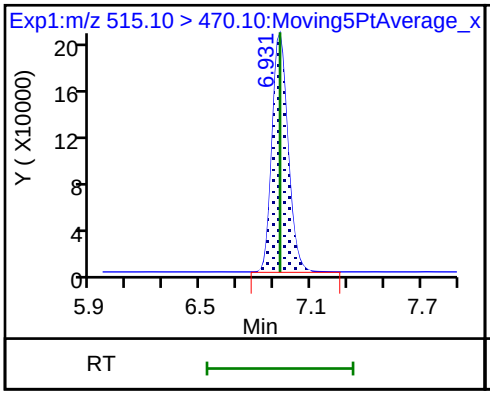
53 PFDA



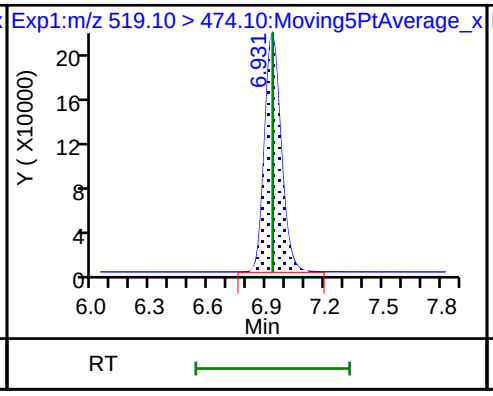
53 PFDA



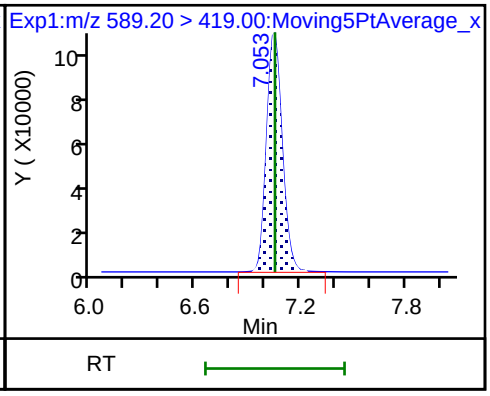
* 52 13C2 PFDA



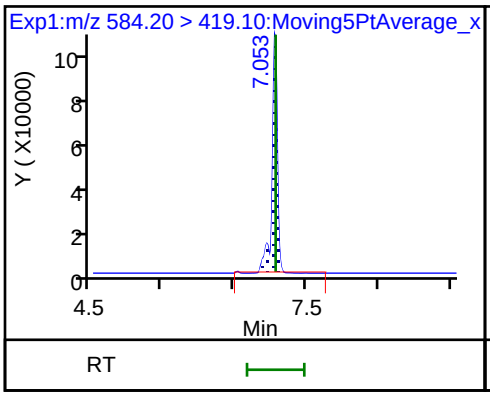
D 51 13C6 PFDA



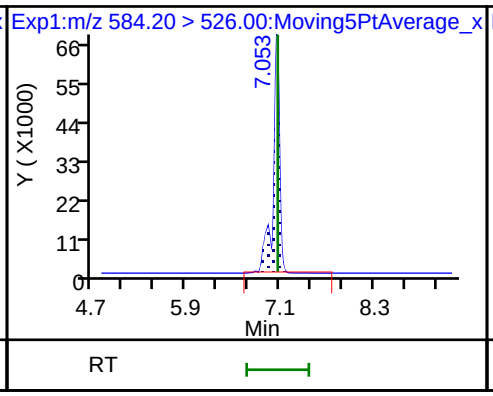
D 54 d5-NEtFOSAA



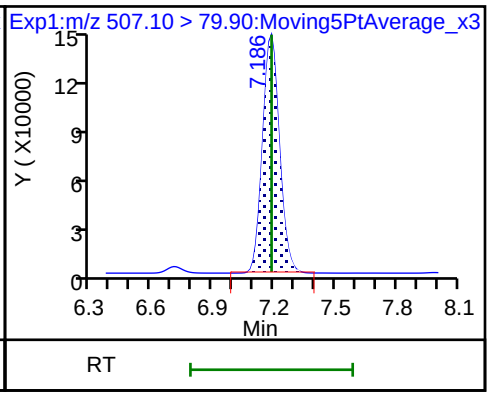
55 NEtFOSAA



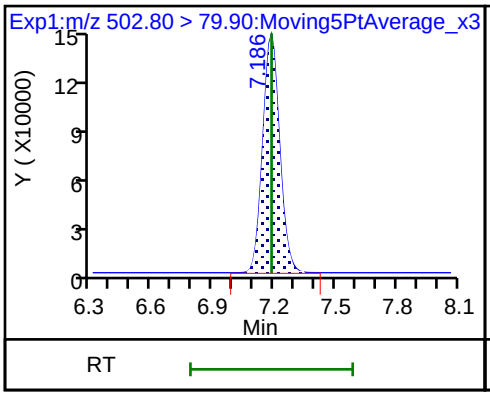
55 NEtFOSAA



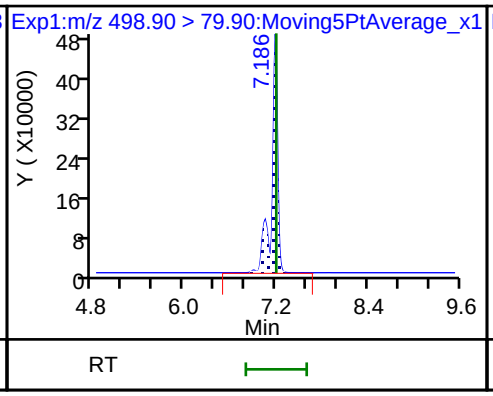
D 56 13C8 PFOS



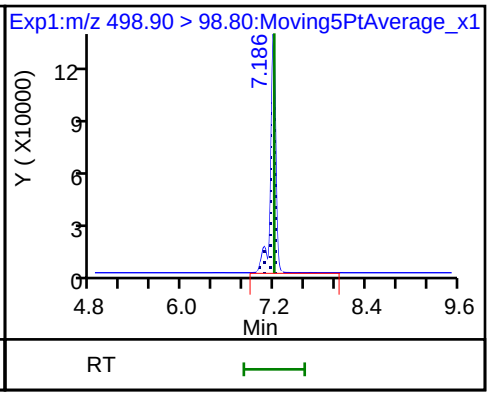
* 57 13C4 PFOS



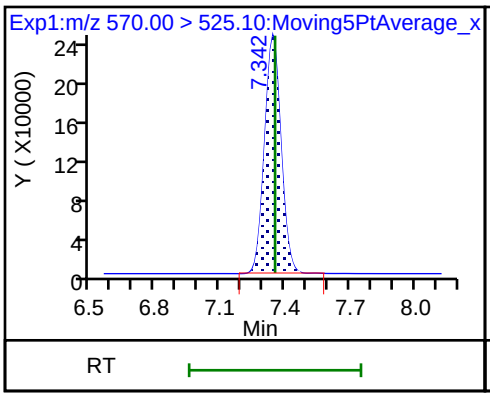
58 PFOS



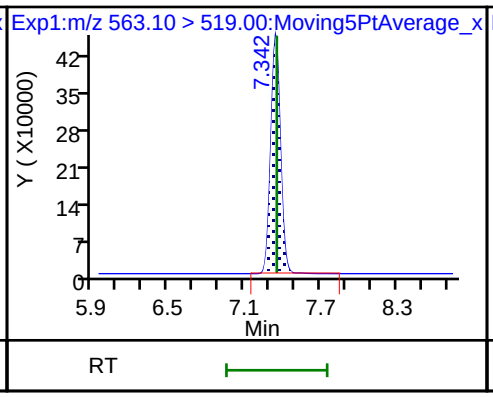
58 PFOS



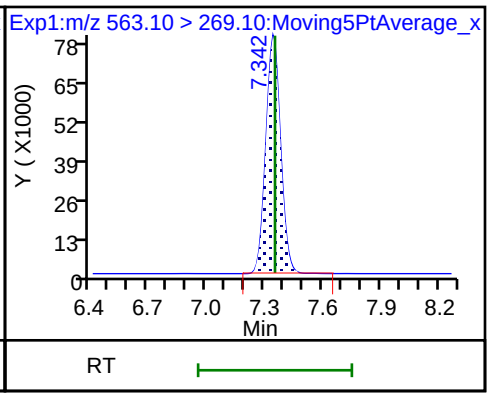
D 59 13C7 PFUnA



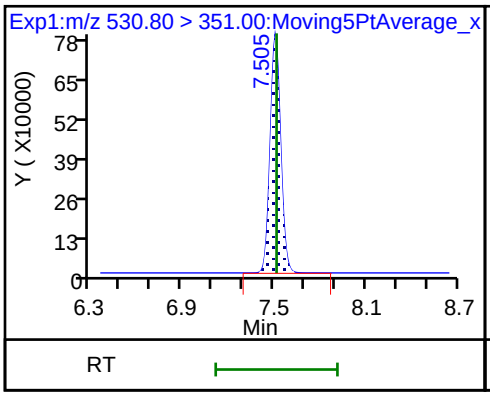
60 PFUnA



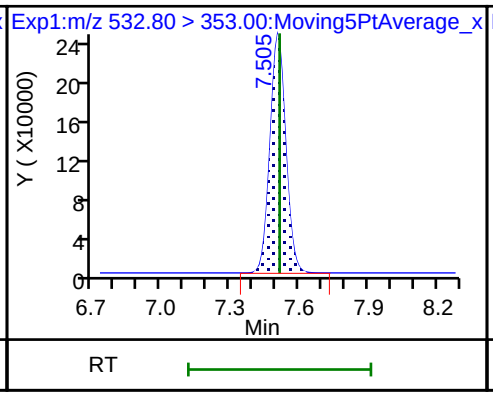
60 PFUnA



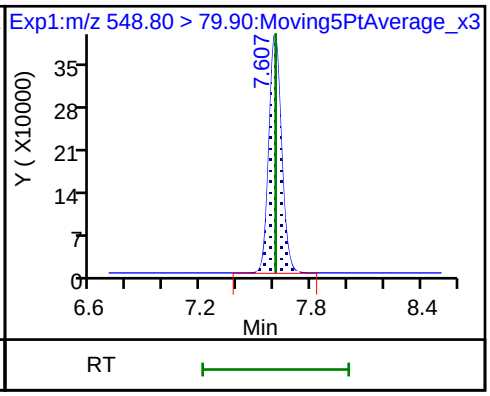
61 9ClFOS



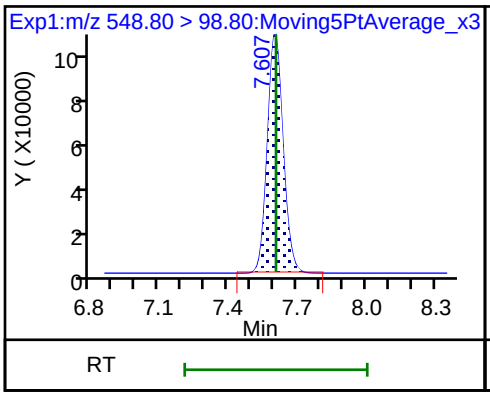
61 9ClFOS



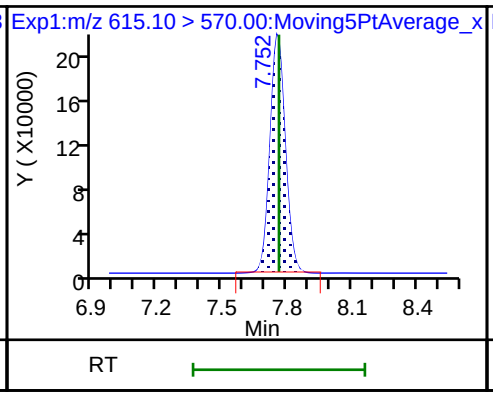
62 PFNS



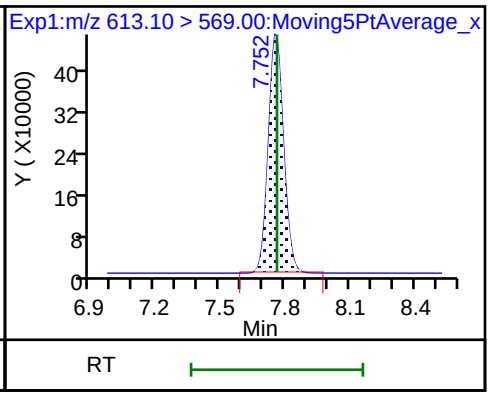
62 PFNS



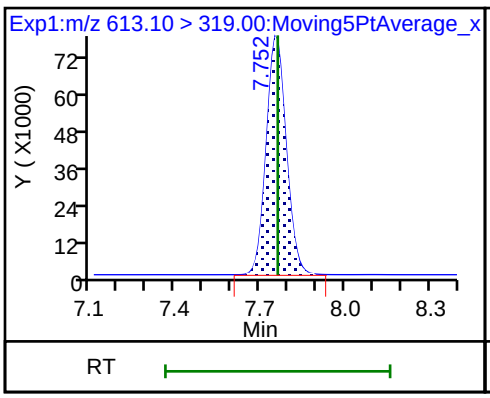
D 82 PFDoA



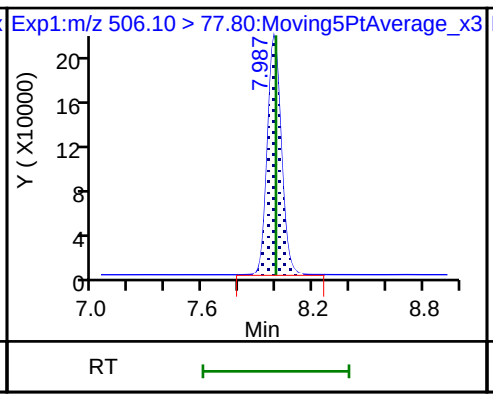
63 PFDoA



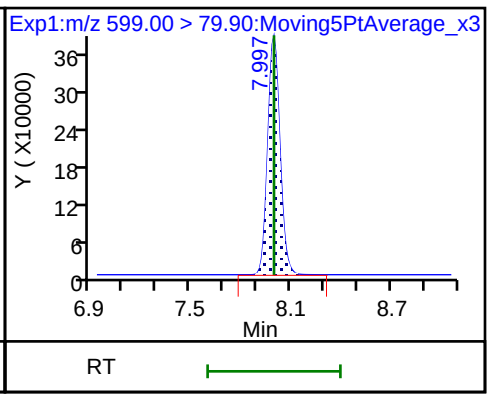
63 PFDoA



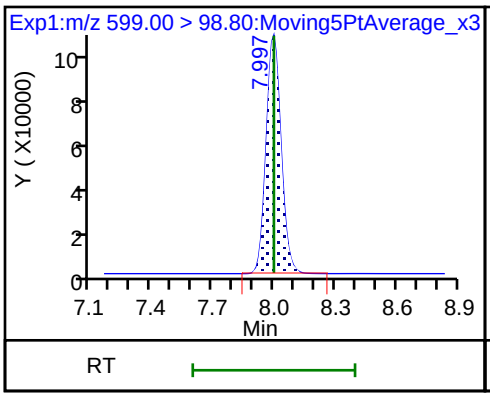
D 64 13C8 FOSA



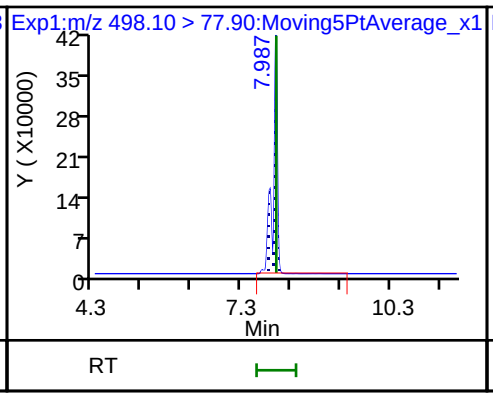
66 PFDS



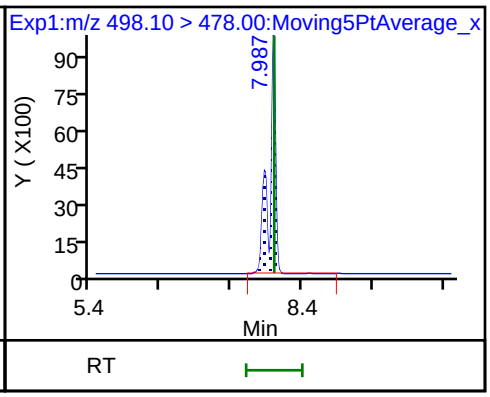
66 PFDS



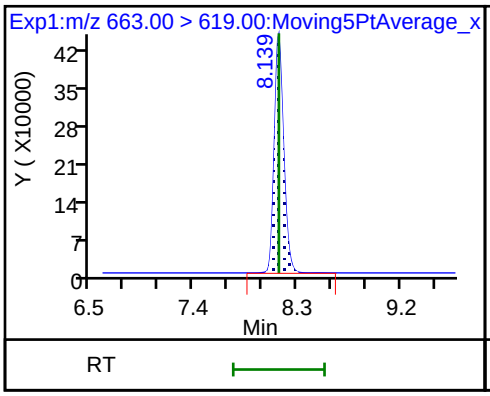
65 PFOSA



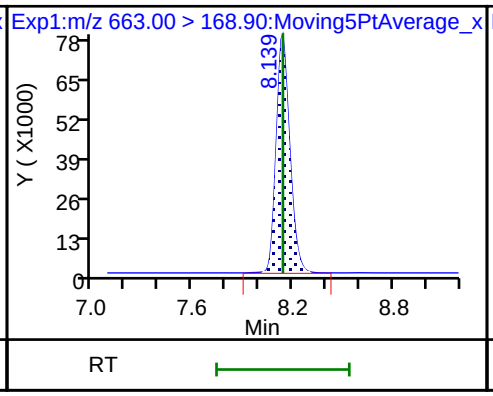
65 PFOSA



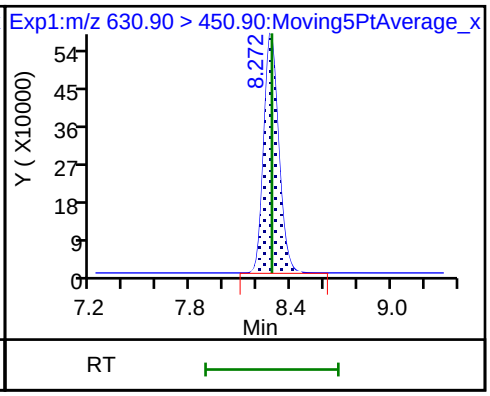
67 PFTrDA



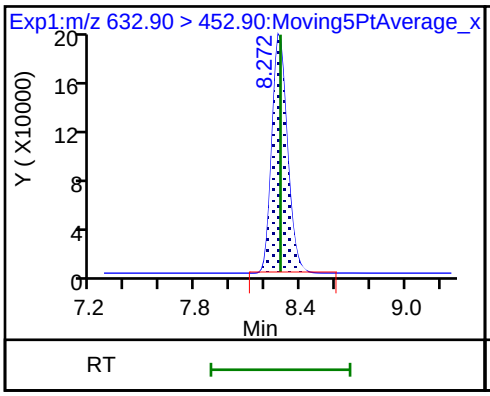
67 PFTrDA



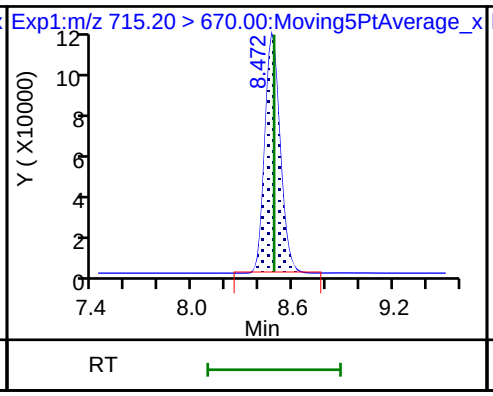
68 11ClFOS



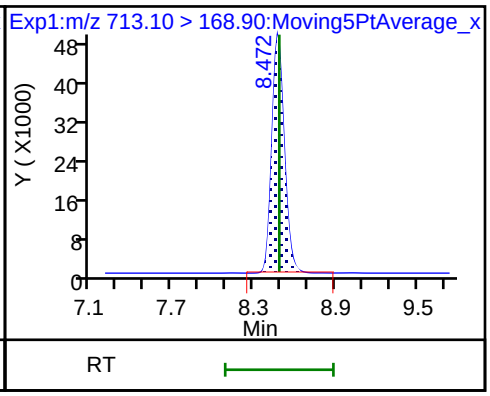
68 11ClFOS



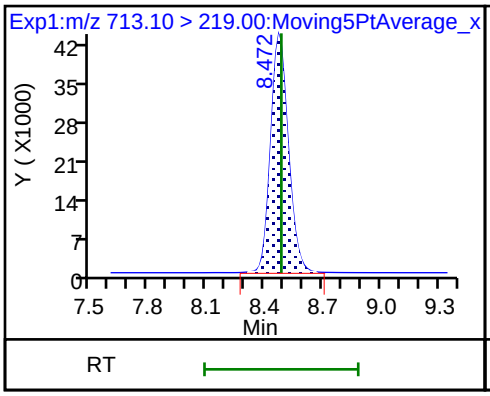
D 69 13C2 PFTeDA



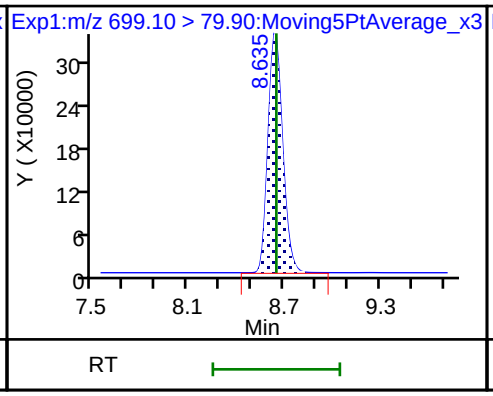
70 PFTeDA



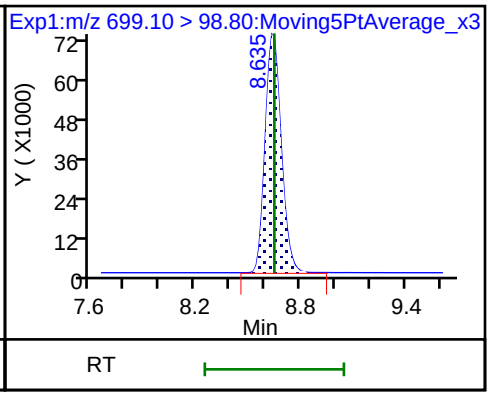
70 PFTeDA



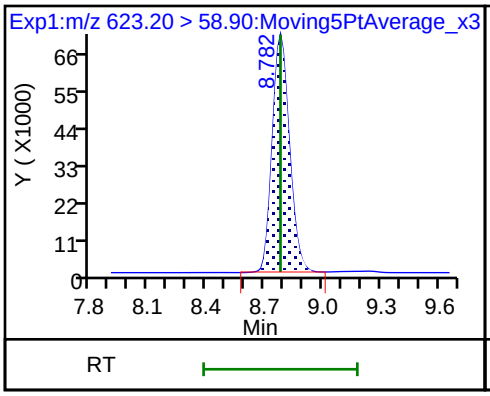
73 PFDoS



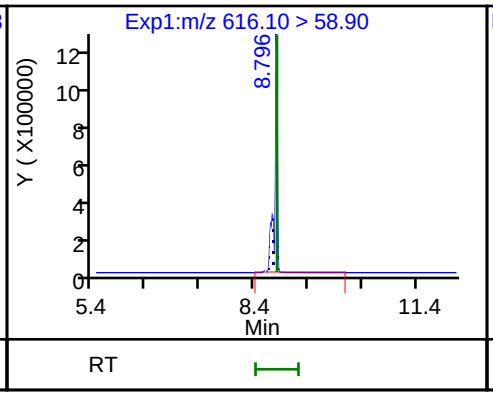
73 PFDoS



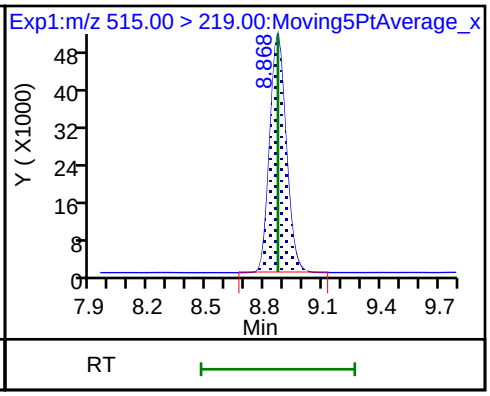
D 71 d7-N-Me-FOSE



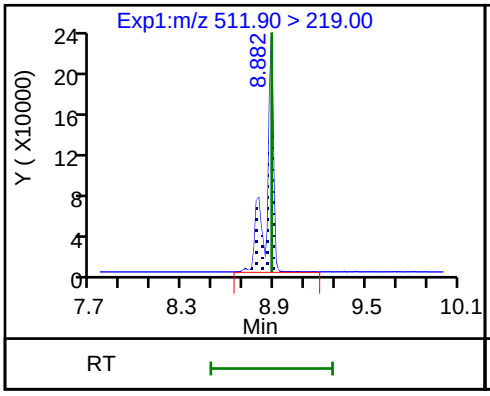
72 N-MeFOSE-M



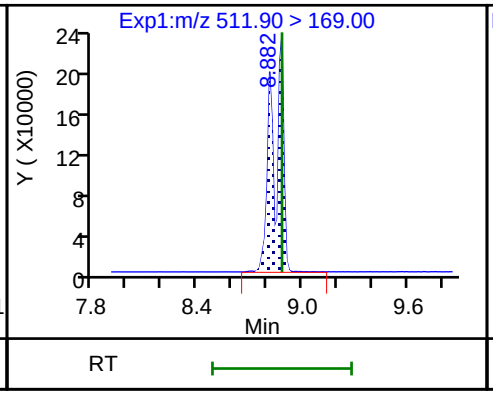
D 74 d3-NMePFOSA



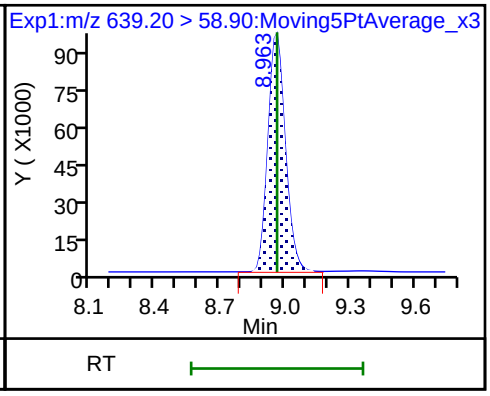
75 NMeFOSA



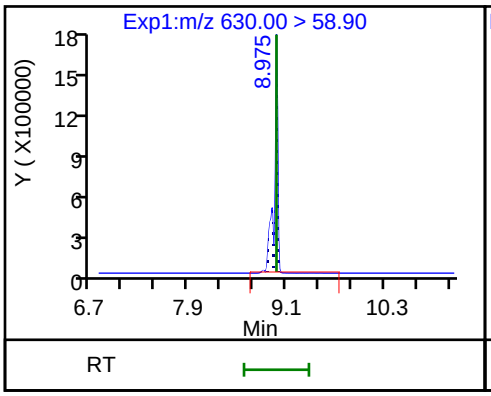
75 NMeFOSA



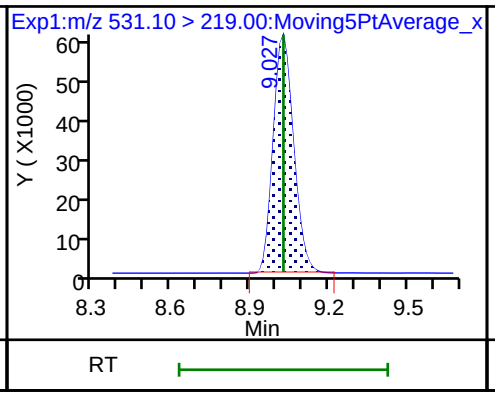
D 76 d9-N-EtFOSE



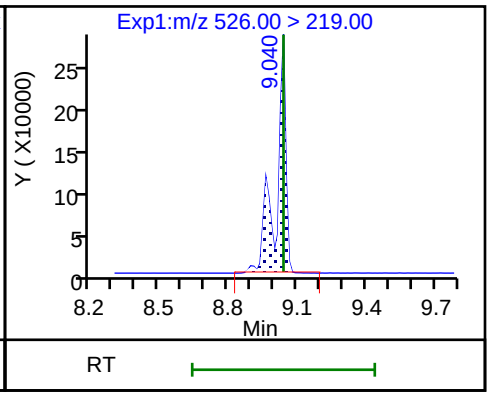
77 N-EtFOSE-M



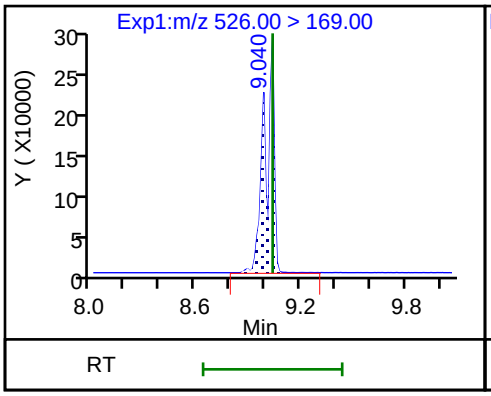
D 78 d5-NEtPFOSA



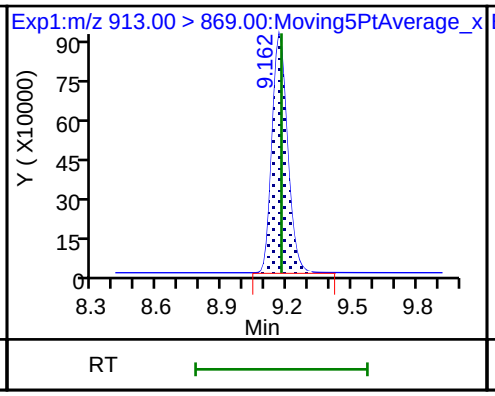
79 N-EtFOSA-M



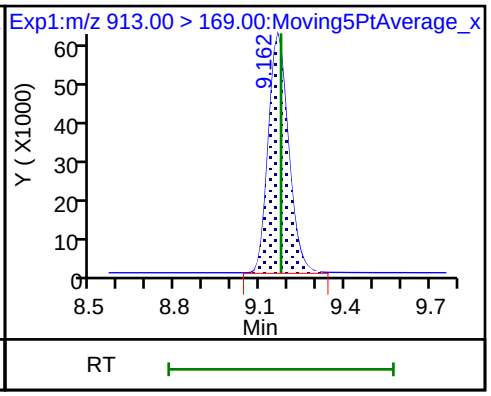
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-11.d
Lims ID: IC CAL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 12-Feb-2025 14:06:57 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL7
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:39:14 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:41:32
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.030	2.054	-0.024	1.004	16976838	47.1		94.1	64889	
D 1 13C3PFPrA										
166.00 > 121.00	2.022	2.054	-0.032	0.483	744696	1.97		98.6	15371	
5 PFBA										
212.80 > 168.90	4.173	4.181	-0.008	0.998	10820997	19.2		96.1	86123	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.181	0.0	1.000	1276375	2.02		101	65836	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.181	0.0		1182055	2.00			34874	
6 PFMPA										
229.00 > 84.90	4.504	4.504	0.0	0.933	6514680	10.1		101	260156	
7 3:3 FTCA										
241.00 > 177.00	4.516	4.516	0.0	0.935	664756	19.1	Target=1.19	95.5	44346	
241.00 > 117.00	4.516	4.516	0.0	0.935	570317		1.17(0.60-1.79)	95.5	28710	
D 8 13C5 PFPeA										
268.30 > 223.00	4.829	4.832	-0.003	0.914	748272	2.11		106	49714	
9 PFPA										
263.00 > 219.00	4.829	4.832	-0.003	1.000	5598940	9.97		99.7	224472	
10 PFMBA										
279.00 > 85.10	4.973	4.975	-0.002	1.030	6098963	10.3		103	293091	
12 4:2FTS										
327.10 > 307.00	5.100	5.102	-0.002	1.000	1924297	16.8	Target=1.52	89.9	118205	
327.10 > 80.90	5.100	5.102	-0.002	1.000	1428154		1.35(0.76-2.27)	89.9	87592	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.100	5.102	-0.002	0.806	361589	4.71		100	22307	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.242	5.244	-0.002	0.992	4037893	9.27	Target=1.35	92.7	174821	
295.00 > 84.90	5.242	5.244	-0.002	0.992	3060431		1.32(0.67-2.02)	92.7	175808	
* 16 13C2 PFHxA										
315.10 > 270.00	5.282	5.283	-0.001		2902430	5.00			171035	
17 PFHxA										
313.00 > 269.00	5.282	5.283	-0.001	1.000	4688630	9.38	Target=11.80	93.8	206911	
313.00 > 118.90	5.282	5.283	-0.001	1.000	439879		10.66(5.90-17.70)	93.8	26019	
D 15 13C5 PFHxA										
318.00 > 273.00	5.282	5.283	-0.001	1.000	1073696	2.09		105	63016	
20 5:3 FTCA										
341.00 > 237.10	5.356	5.357	-0.001	1.014	4298562	47.3	Target=1.01	94.5	242841	
341.00 > 217.00	5.356	5.357	-0.001	1.014	4497765		0.96(0.50-1.51)	94.5	153172	
19 PFBS										
298.70 > 79.90	5.399	5.414	-0.015	1.000	4667781	8.67	Target=3.05	97.6	251731	
298.70 > 98.80	5.399	5.414	-0.015	1.000	1601022		2.92(1.53-4.58)	97.6	86658	
25 FBSA										
297.90 > 78.00	5.399	5.414	-0.015	1.000	5589480	9.86		98.6	124851	
D 18 13C3 PFBS										
302.10 > 79.90	5.399	5.414	-0.015	0.853	1020468	1.91		103	55286	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.456	5.470	-0.014	1.033	1368311	2.16		108	73635	
22 HFPO-DA										
284.90 > 168.90	5.470	5.470	0.0	1.003	4770527	6.98	Target=2.44	93.1	191206	
284.90 > 184.90	5.470	5.470	0.0	1.003	1919152		2.49(1.22-3.66)	93.1	103181	
24 PFEESA										
314.80 > 134.90	5.638	5.653	-0.015	1.067	13212109	9.00	Target=12.34	101	719951	
314.80 > 82.90	5.638	5.653	-0.015	1.067	1080410		12.23(6.17-18.50)	101	59087	
28 PFHpA										
363.10 > 319.00	5.708	5.708	0.0	1.000	5194962	9.36	Target=2.64	93.6	177502	
363.10 > 169.00	5.708	5.708	0.0	1.000	2078981		2.50(1.32-3.96)	93.6	118522	
D 26 13C4 PFHpA										
367.10 > 322.00	5.708	5.708	0.0	1.081	1163855	2.24		112	66128	
30 ADONA										
376.90 > 250.90	5.858	5.858	0.0	1.074	11331534	8.69	Target=1.75	91.8	48400	
376.90 > 84.80	5.858	5.858	0.0	1.074	6753377		1.68(0.87-2.62)	91.8	318422	
29 PFPeS										
349.10 > 79.90	5.892	5.893	-0.001	0.931	4567132	8.99	Target=3.14	95.7	217849	
349.10 > 98.90	5.892	5.893	-0.001	0.931	1449106		3.15(1.57-4.71)	95.7	91695	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.904	5.916	-0.012	0.933	358638	4.46		93.7	23179	
32 6:2FTS										
427.10 > 407.00	5.904	5.916	-0.012	1.000	2284929	18.9	Target=1.62	99.8	147767	
427.10 > 80.90	5.904	5.916	-0.012	1.000	1432991		1.59(0.81-2.43)	99.8	92768	
33 BTS										
280.00 > 147.00	6.034	6.034	0.0	0.953	11913612	9.81		100	766972	
D 34 13C8 PFOA										
421.10 > 376.00	6.109	6.122	-0.013	0.998	1481850	1.91		95.3	69600	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.121	6.122	-0.001	1.002	6351875	10.8	Target=2.44	108	619648	
413.00 > 169.00	6.121	6.122	-0.001	1.002	2582092		2.46(1.22-3.66)	108	73954	
* 35 13C4 PFOA										
417.10 > 372.00	6.121	6.122	-0.001		3642226	5.00			772260	
39 7:3 FTCA										
441.00 > 316.90	6.193	6.194	-0.001	1.172	5116253	48.2	Target=0.91	96.4	131906	
441.00 > 336.90	6.193	6.194	-0.001	1.172	5719842		0.89(0.45-1.36)	96.4	257845	
D 38 13C3 PFHxS										
402.10 > 79.90	6.330	6.330	0.0	1.000	976899	1.96		103	56746	
* 37 18O2 PFHxS										
403.00 > 83.90	6.330	6.330	0.0		921174	1.89			53652	
40 PFHxS										
398.70 > 79.90	6.342	6.343	-0.001	1.002	3658226	8.60	Target=3.16	94.3	360104	
398.70 > 98.90	6.342	6.343	-0.001	1.002	1140866		3.21(1.58-4.74)	94.3	245393	
D 41 13C9 PFNA										
472.10 > 427.00	6.517	6.530	-0.013	1.000	1239931	1.98		98.8	53697	
43 PFNA										
463.00 > 419.00	6.530	6.530	0.0	1.002	5118774	10.0	Target=2.70	100	500360	
463.00 > 219.00	6.530	6.530	0.0	1.002	1915440		2.67(1.35-4.05)	100	289411	
* 42 13C5 PFNA										
468.00 > 423.00	6.517	6.530	-0.013		1225299	2.00			53101	
46 8:2FTS										
527.10 > 507.00	6.704	6.715	-0.011	1.000	1620753	17.2	Target=1.71	89.9	100450	
527.10 > 80.80	6.704	6.715	-0.011	1.000	1033057		1.57(0.86-2.57)	89.9	63644	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.704	6.715	-0.011	1.059	324476	4.68		97.5	20175	
44 PFECHS										
461.00 > 381.00	6.727	6.727	0.0	1.063	1475982	8.83	Target=0.29	95.6	89242	
461.00 > 99.00	6.727	6.727	0.0	1.063	5114758		0.29(0.14-0.43)	95.6	310170	
47 PFHpS										
449.00 > 79.90	6.762	6.773	-0.011	0.941	4458851	8.87	Target=3.62	92.9	277052	
449.00 > 98.80	6.762	6.773	-0.011	0.941	1237610		3.60(1.81-5.43)	92.9	76992	
48 FHxSA										
397.90 > 78.00	6.784	6.784	0.0	1.072	6015991	9.63		96.3	211420	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.868	6.880	-0.012	0.956	765709	4.80		96.0	44768	
50 NMeFOSAA										
570.10 > 419.00	6.880	6.880	0.0	1.002	1546933	10.1	Target=1.87	101	344807	
570.10 > 483.00	6.880	6.880	0.0	1.002	837077		1.85(0.93-2.80)	101	169415	
53 PFDA										
512.90 > 469.00	6.931	6.931	0.0	1.000	5362857	9.73	Target=5.46	97.3	225895	
512.90 > 219.00	6.931	6.931	0.0	1.000	1034559		5.18(2.73-8.19)	97.3	57780	
* 52 13C2 PFDA										
515.10 > 470.10	6.931	6.931	0.0		1203377	2.00			67419	
D 51 13C6 PFDA										
519.10 > 474.10	6.931	6.931	0.0	1.000	1279170	2.02		101	71939	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.053	7.053	0.0	0.982	642393	4.91		98.1	34773	
55 NEtFOSAA										
584.20 > 419.10	7.067	7.067	0.0	1.002	1085043	9.35	Target=1.40	93.5	54414	
584.20 > 526.00	7.067	7.067	0.0	1.002	762027		1.42(0.70-2.10)	93.5	142365	
D 56 13C8 PFOS										
507.10 > 79.90	7.186	7.186	0.0	1.000	903782	1.93		101	5858	
* 57 13C4 PFOS										
502.80 > 79.90	7.186	7.186	0.0		875786	1.91			51219	
58 PFOS										
498.90 > 79.90	7.186	7.198	-0.012	1.000	5422973	9.02	Target=4.24	97.0	505072	
498.90 > 98.80	7.186	7.198	-0.012	1.000	1266772		4.28(2.12-6.36)	97.0	274816	
D 59 13C7 PFUnA										
570.00 > 525.10	7.343	7.353	-0.010	1.059	1237375	2.09		104	78304	
60 PFUnA										
563.10 > 519.00	7.343	7.353	-0.010	1.000	4529727	9.10	Target=5.76	91.0	283232	
563.10 > 269.10	7.343	7.353	-0.010	1.000	772388		5.86(2.88-8.63)	91.0	48442	
61 9ClFOS										
530.80 > 351.00	7.505	7.514	-0.009	1.376	7446148	8.92	Target=3.18	95.5	517757	
532.80 > 353.00	7.505	7.514	-0.009	1.376	2336884		3.19(1.59-4.77)	95.5	161193	
62 PFNS										
548.80 > 79.90	7.607	7.607	0.0	1.059	3862553	9.39	Target=3.81	97.6	268538	
548.80 > 98.80	7.607	7.607	0.0	1.059	1018361		3.79(1.90-5.71)	97.6	71598	
D 82 PFDoA										
615.10 > 570.00	7.752	7.762	-0.010	1.118	1018652	2.04		102	69431	
63 PFDoA										
613.10 > 569.00	7.752	7.762	-0.010	1.000	4482817	9.40	Target=6.16	94.0	229007	
613.10 > 319.00	7.752	7.762	-0.010	1.000	747485		6.00(3.08-9.25)	94.0	50498	
D 64 13C8 FOSA										
506.10 > 77.80	7.987	7.997	-0.010	1.111	1068117	1.91		95.6	50979	
66 PFDS										
599.00 > 79.90	7.998	7.997	0.001	1.113	3893346	8.86	Target=3.75	91.9	250711	
599.00 > 98.80	7.998	7.997	0.001	1.113	967923		4.02(1.87-5.62)	91.9	62496	
65 PFOSA										
498.10 > 77.90	7.987	7.997	-0.010	1.000	4744864	9.85	Target=46.29	98.5	803648	
498.10 > 478.00	7.987	7.997	-0.010	1.000	112801		42.06(23.15-69.44)	98.5	17996	
67 PFTrDA										
663.00 > 619.00	8.129	8.139	-0.010	0.959	4624167	9.45	Target=5.80	94.5	205891	
663.00 > 168.90	8.129	8.139	-0.010	0.959	841026		5.50(2.90-8.70)	94.5	49732	
68 11ClFOS										
630.90 > 450.90	8.272	8.285	-0.013	1.516	7205463	9.15	Target=3.09	97.0	394161	
632.90 > 452.90	8.272	8.285	-0.013	1.516	2219137		3.25(1.55-4.64)	97.0	121362	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.472	8.486	-0.014	1.222	691148	1.96		98.1	36399	
70 PFTeDA										
713.10 > 168.90	8.472	8.486	-0.014	1.000	650884	10.7	Target=1.18	107	33882	
713.10 > 219.00	8.472	8.486	-0.014	1.000	540479		1.20(0.59-1.77)	107	28289	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.635	8.650	-0.015	1.202	4222028	8.71	Target=4.45	89.8	133152	
699.10 > 98.80	8.635	8.650	-0.015	1.202	985913		4.28(2.23-6.68)	89.8	51701	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.782	8.781	0.001	1.222	425122	4.89		97.8	13724	
72 N-MeFOSE-M										
616.10 > 58.90	8.797	8.811	-0.014	1.002	7639883	48.8		97.6	31135	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.869	8.868	0.001	1.234	298758	2.04		102	10090	
75 NMeFOSA										
511.90 > 219.00	8.869	8.882	-0.013	1.000	1406829	9.06	Target=0.73	90.6	438165	
511.90 > 169.00	8.869	8.882	-0.013	1.000	1984253		0.71(0.36-1.09)	90.6	239276	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.950	8.962	-0.012	1.245	540508	4.78		95.6	12103	
77 N-EtFOSE-M										
630.00 > 58.90	8.976	8.975	0.001	1.003	9431441	47.8		95.6	91500	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.028	9.027	0.001	1.256	328587	1.99		99.3	20039	
79 N-EtFOSA-M										
526.00 > 219.00	9.041	9.040	0.001	1.001	1686289	9.56	Target=0.82	95.6	543708	
526.00 > 169.00	9.041	9.040	0.001	1.001	2128643		0.79(0.41-1.22)	95.6	562873	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.163	9.174	-0.011	1.081	8224785	9.34	Target=14.83	93.4	92513	
913.00 > 169.00	9.163	9.174	-0.011	1.081	611203		13.46(7.41-22.24)	93.4	31140	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL7_00016 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:39:15 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-11.d

Injection Date: 12-Feb-2025 14:06:57 Instrument ID: 30576

Lims ID: IC CAL 7

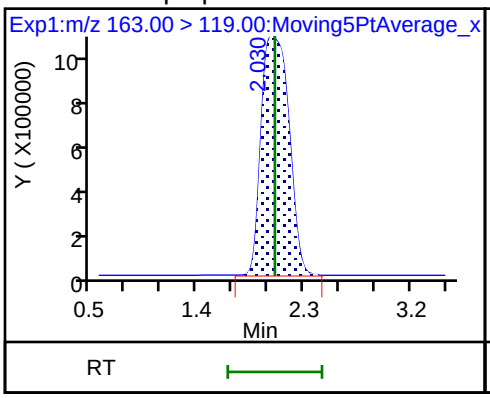
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 8 Worklist Smp#: 7

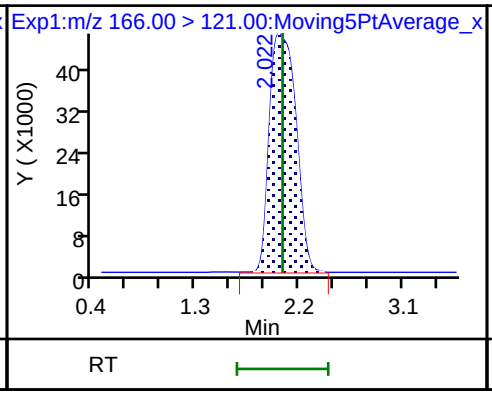
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

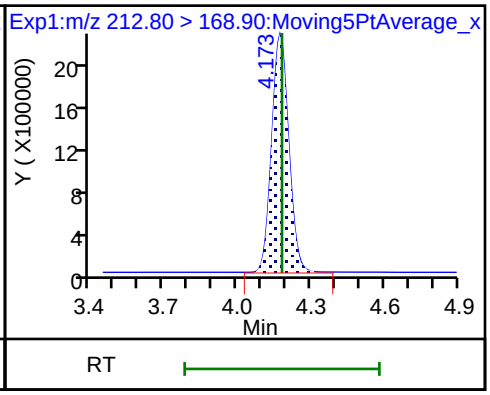
2 Perfluoropropionic acid



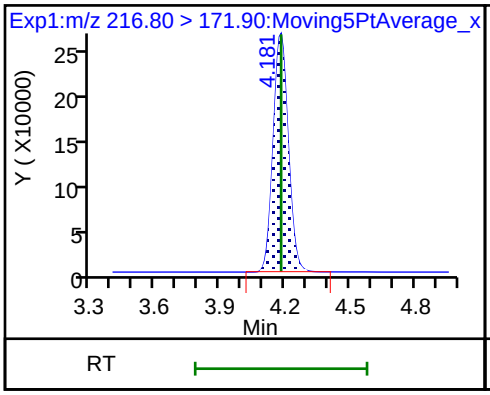
D 1 13C3PFPrA



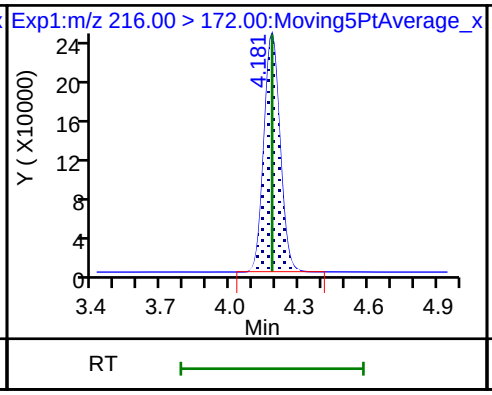
5 PFBA



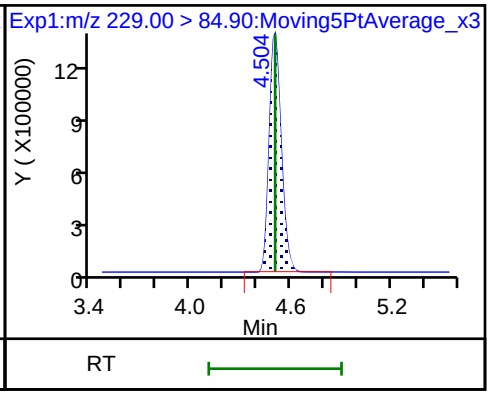
D 3 13C4-PFBA



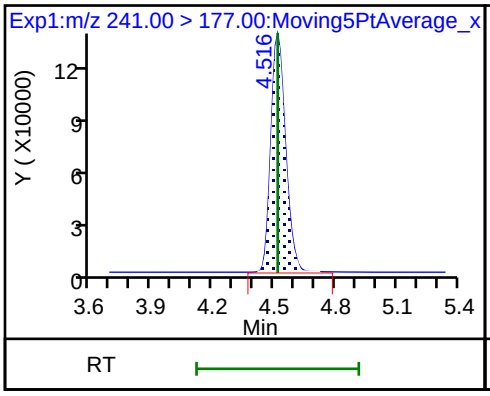
* 4 13C3PFBA



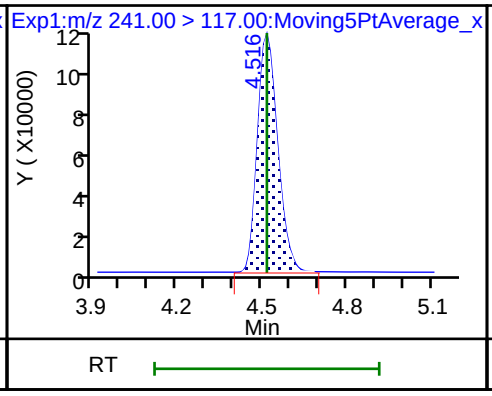
6 PFMPA



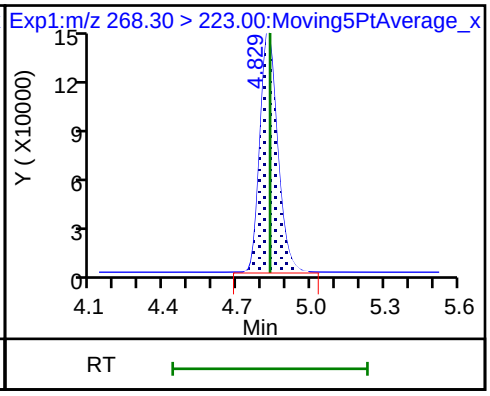
7 3:3 FTCA



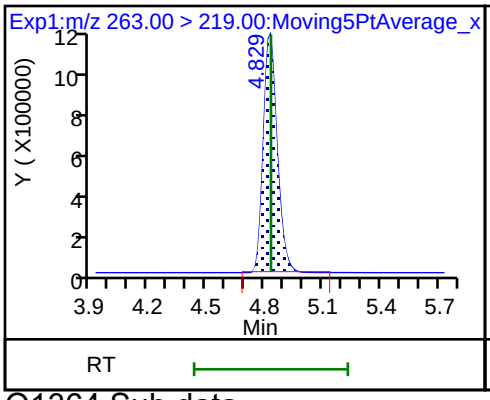
7 3:3 FTCA



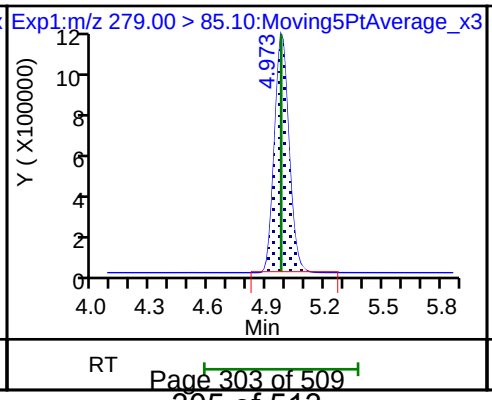
D 8 13C5 PFPeA



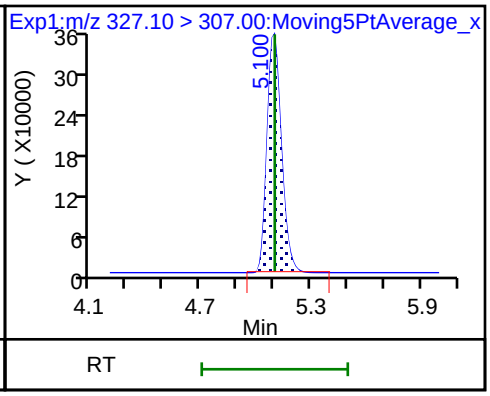
9 PFPA



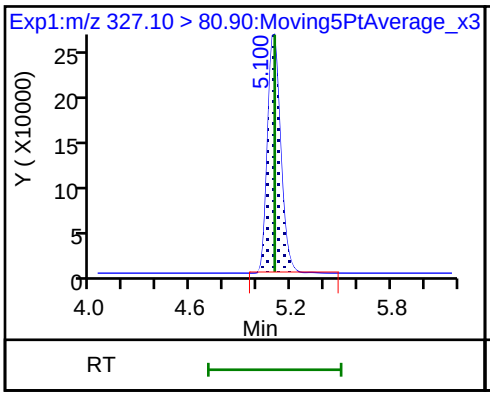
10 PFMBA



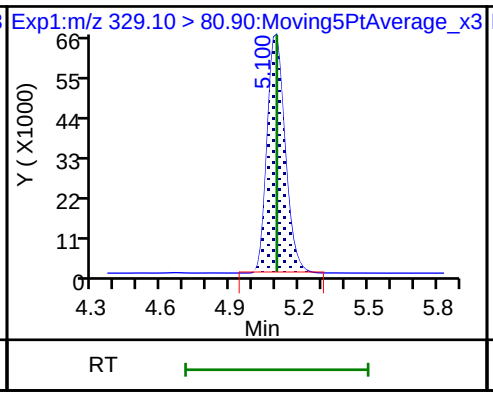
12 4:2FTS



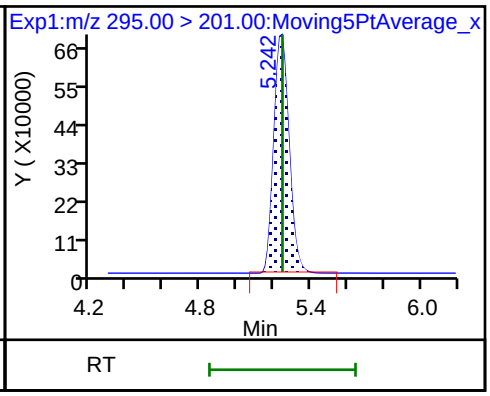
12 4:2FTS



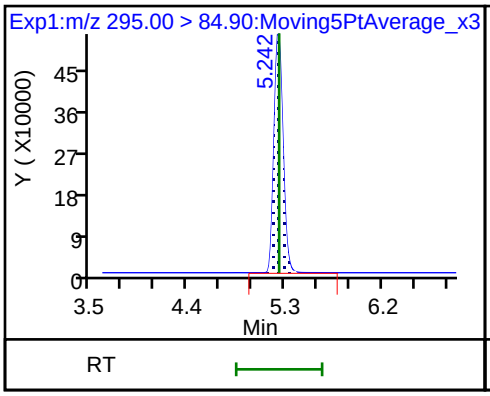
D 11 13C2-4:2FTS



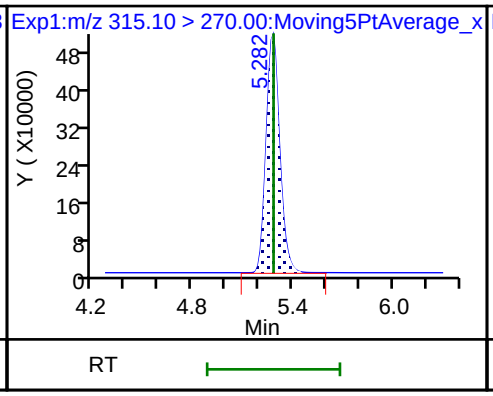
14 NFDHA



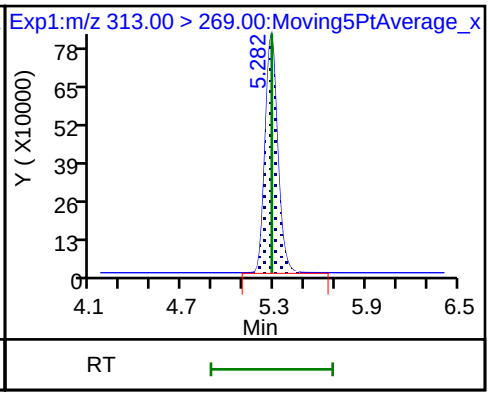
14 NFDHA



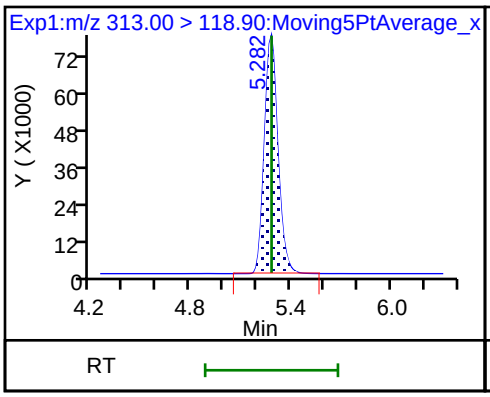
* 16 13C2 PFHxA



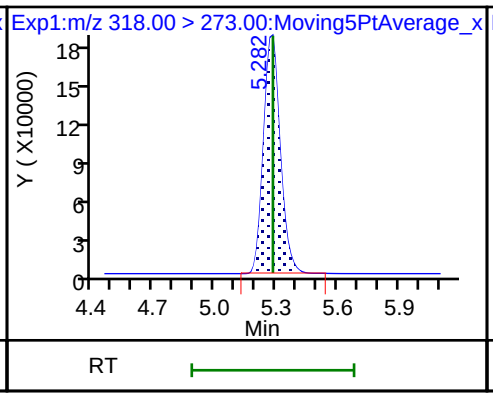
17 PFHxA



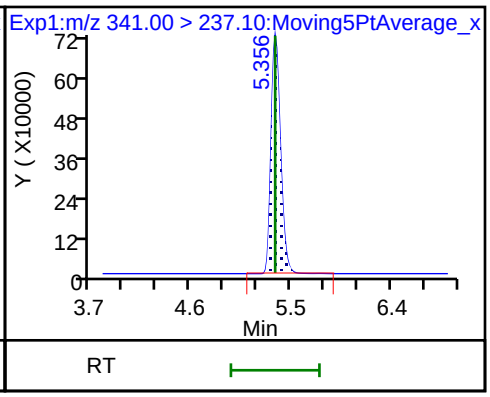
17 PFHxA



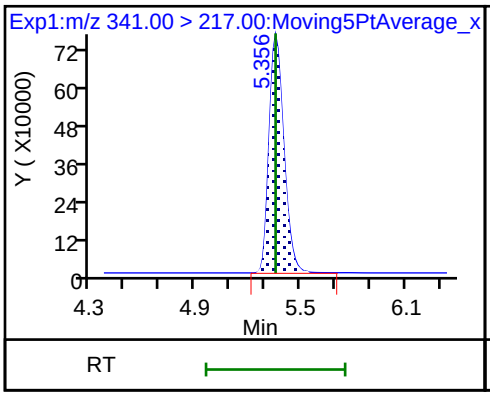
D 15 13C5 PFHxA



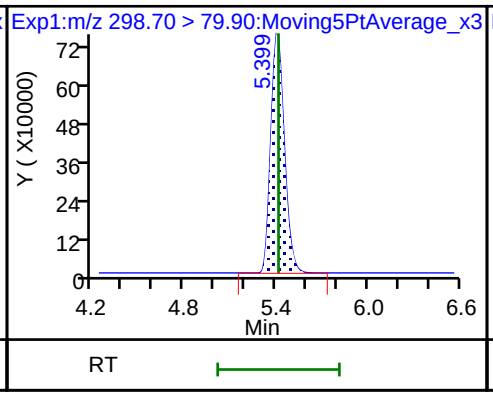
20 5:3 FTCA



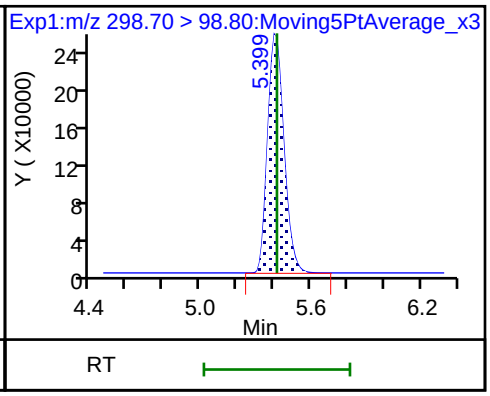
20 5:3 FTCA



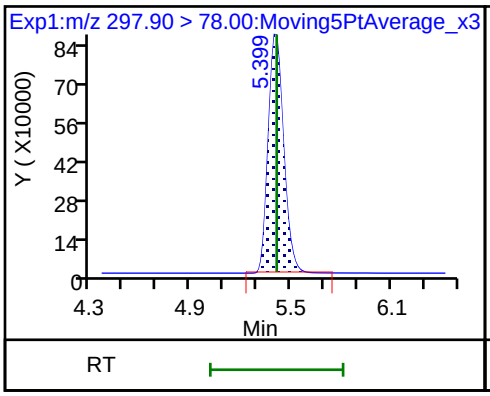
19 PFBS



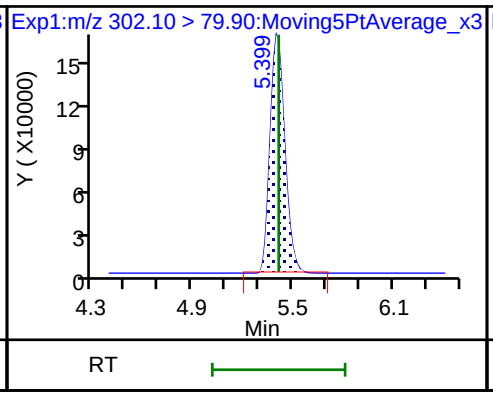
19 PFBS



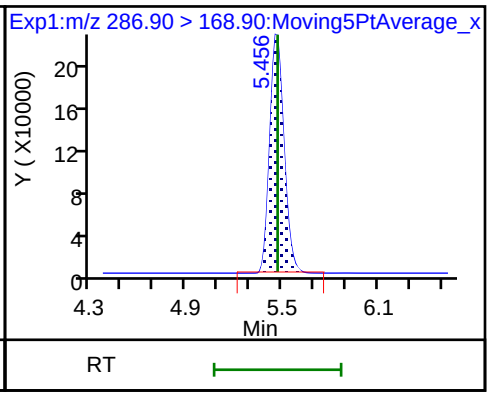
25 FBSA



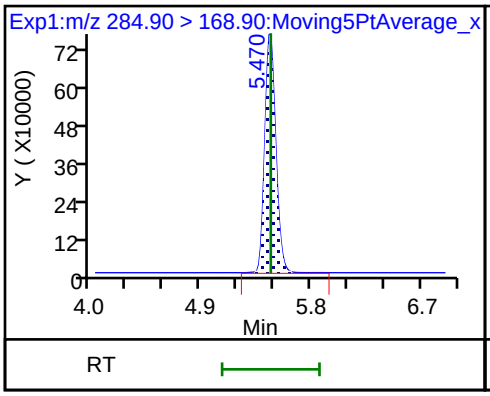
D 18 13C3 PFBS



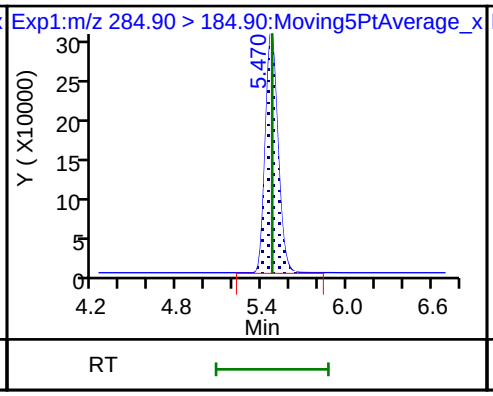
D 21 13C3 HFPO-DA



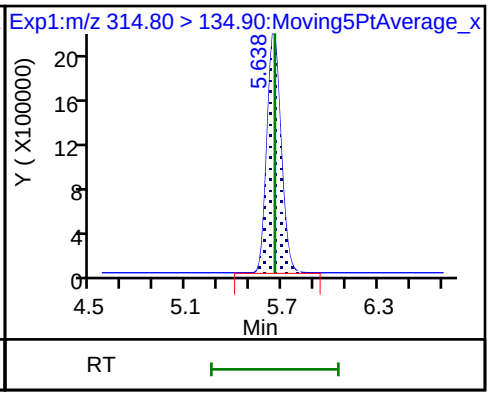
22 HFPO-DA



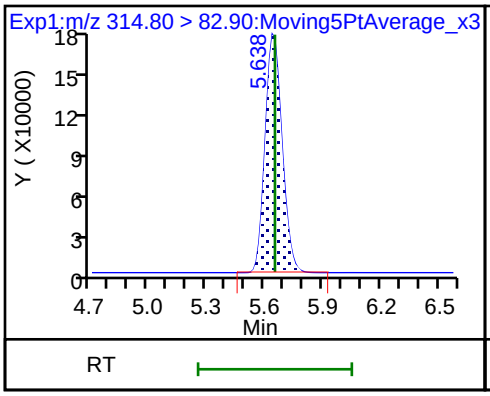
22 HFPO-DA



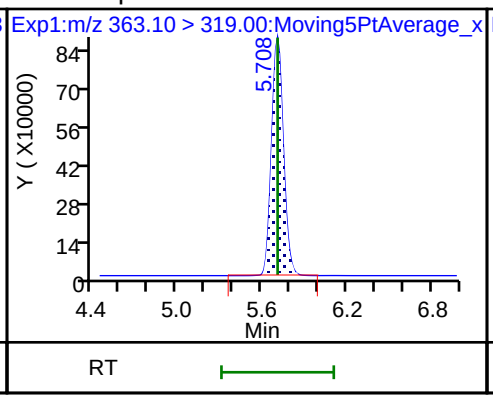
24 PFEESA



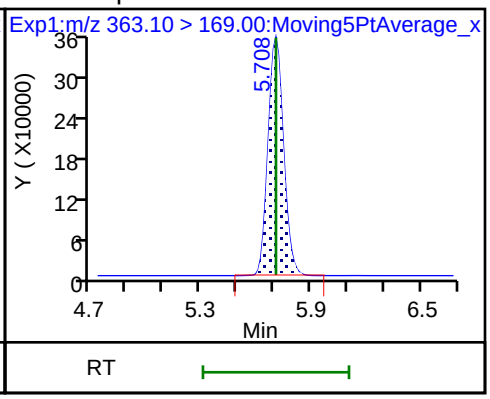
24 PFEESA



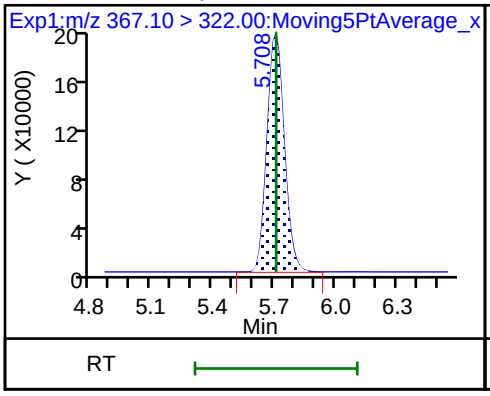
28 PFHpA



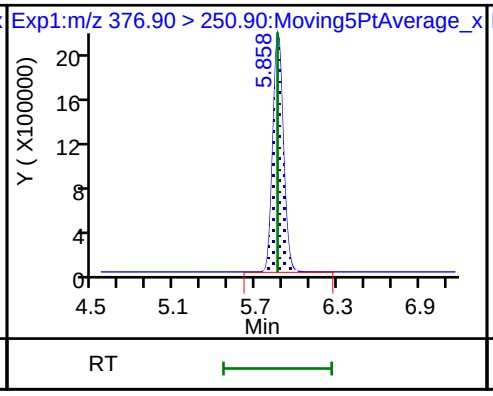
28 PFHpA



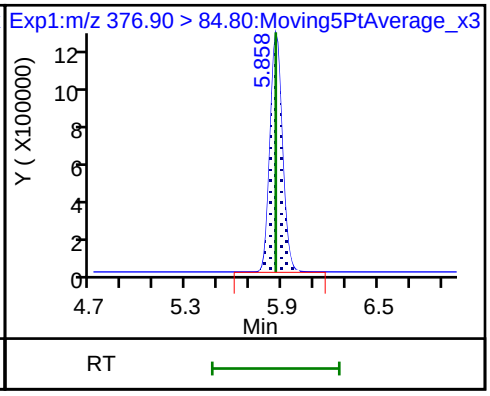
D 26 13C4 PFHpA



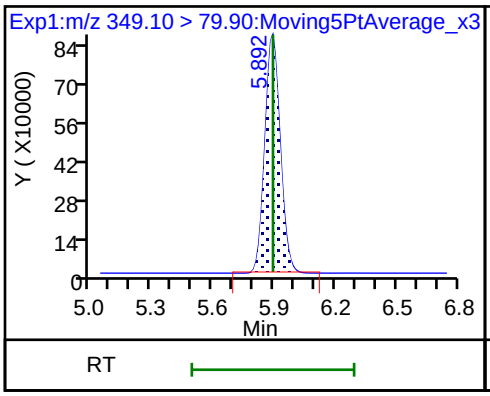
30 ADONA



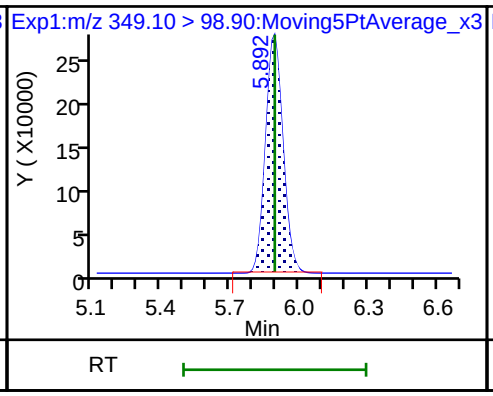
30 ADONA



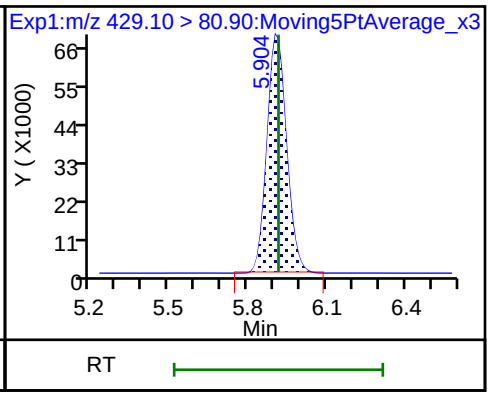
29 PFPeS



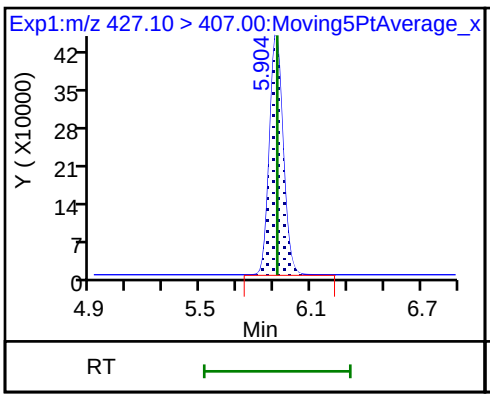
29 PFPeS



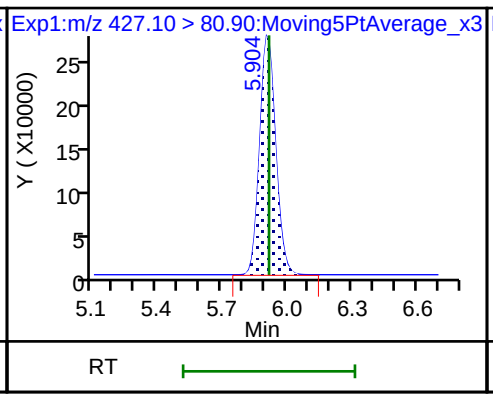
D 31 13C2-6:2FTS



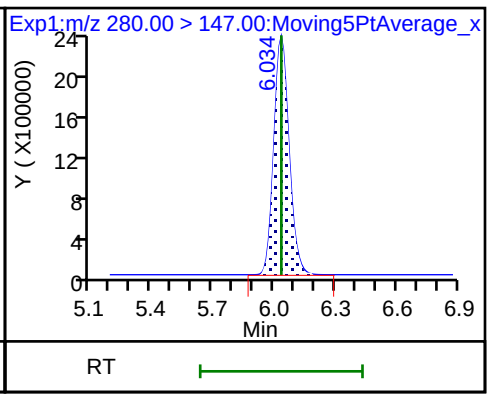
32 6:2FTS



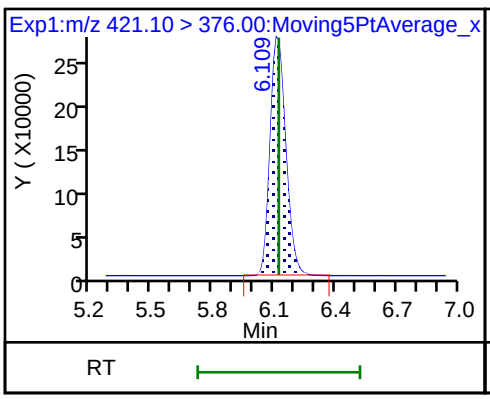
32 6:2FTS



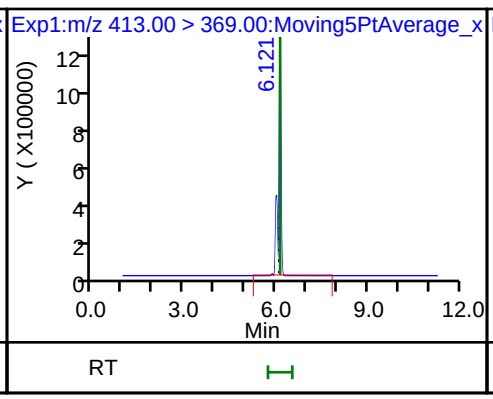
33 BTS



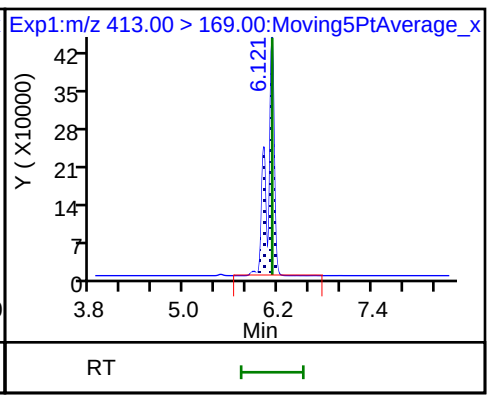
D 34 13C8 PFOA



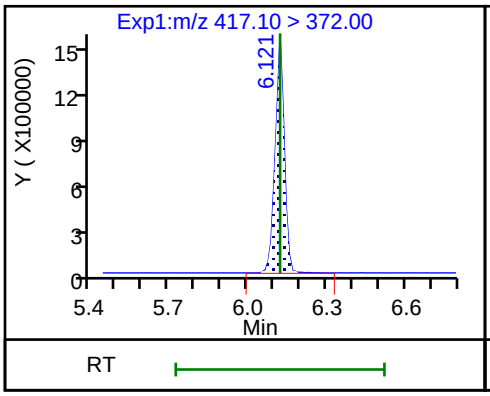
36 PFOA



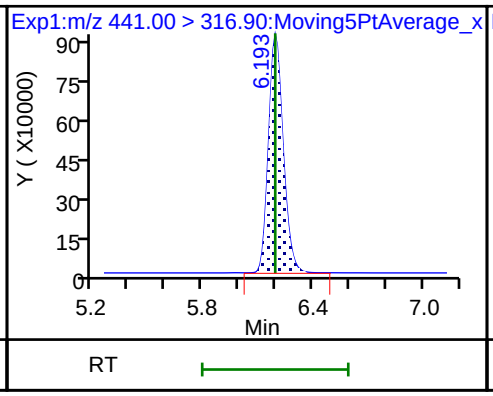
36 PFOA



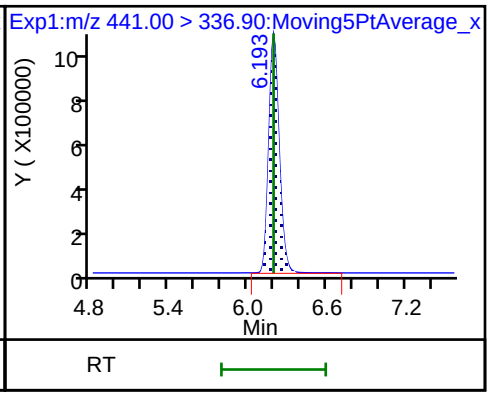
* 35 13C4 PFOA



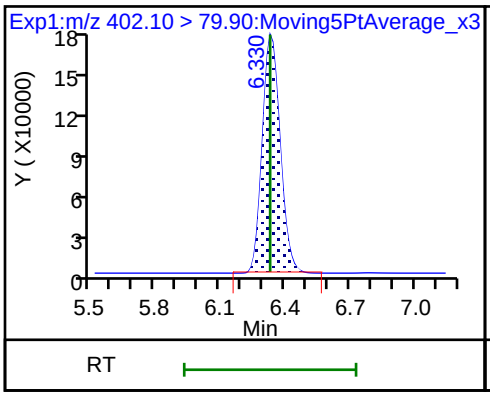
39 7:3 FTCA



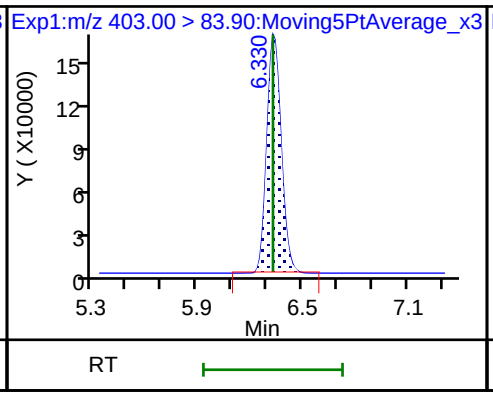
39 7:3 FTCA



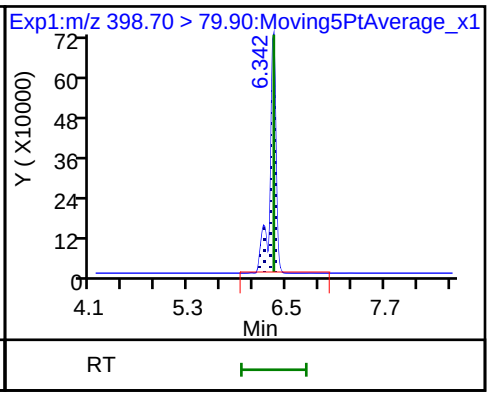
D 38 13C3 PFHxS



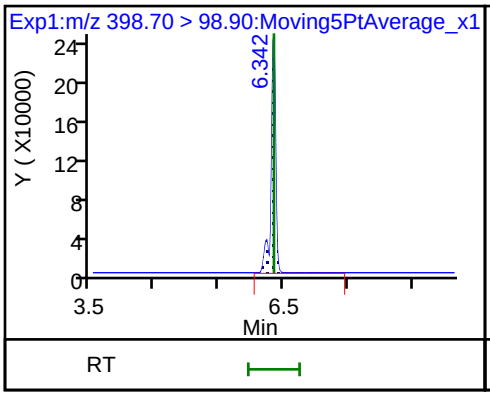
* 37 18O2 PFHxS



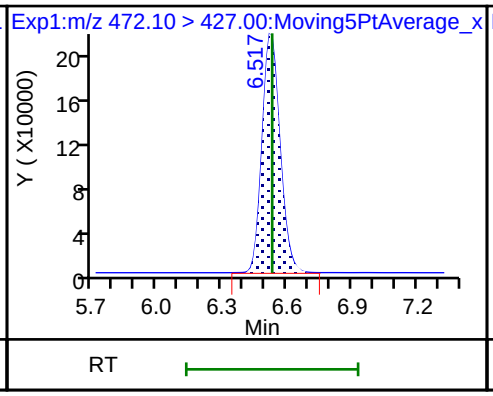
40 PFHxS



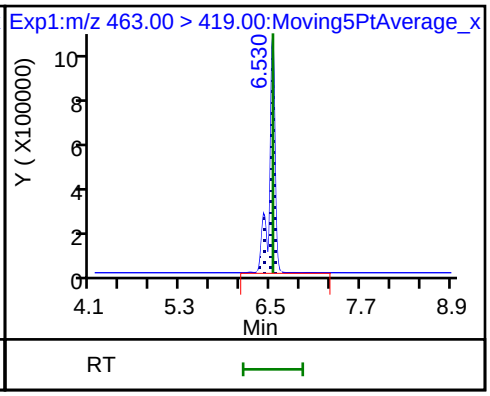
40 PFHxS



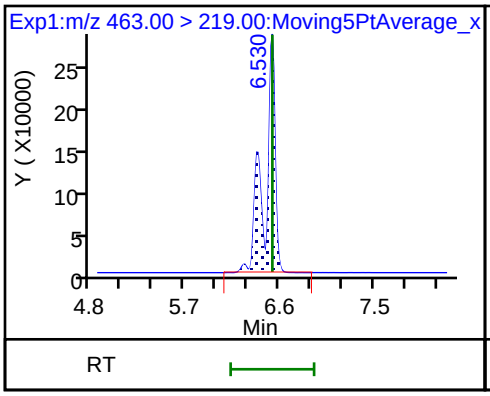
D 41 13C9 PFNA



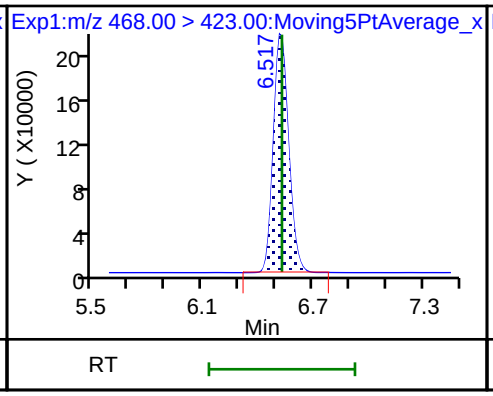
43 PFNA



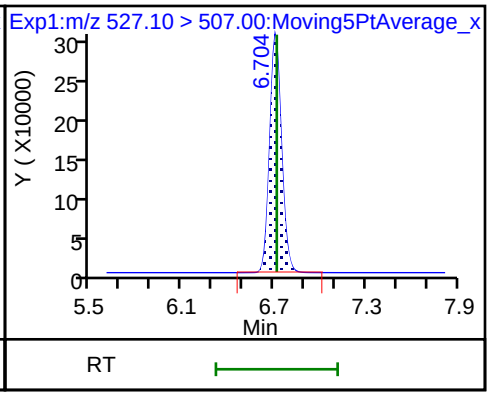
43 PFNA



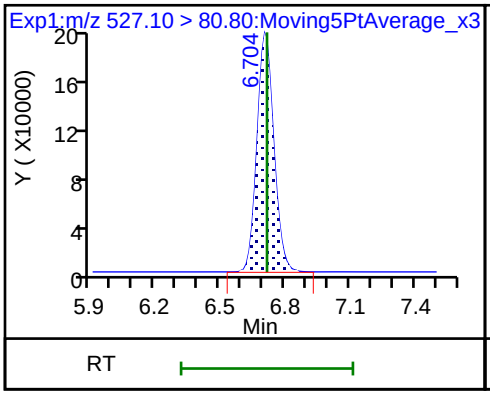
* 42 13C5 PFNA



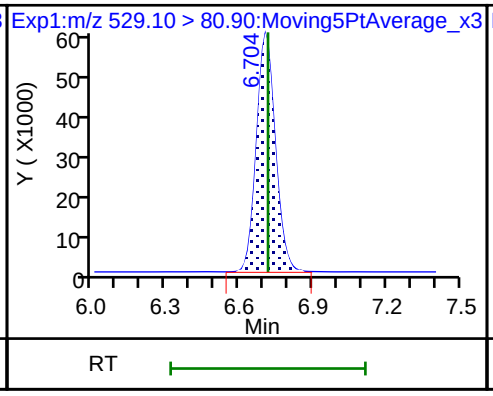
46 8:2FTS



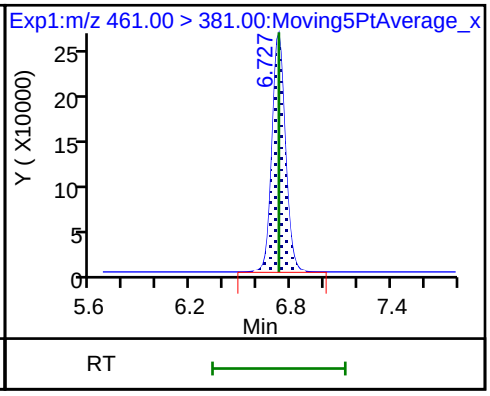
46 8:2FTS



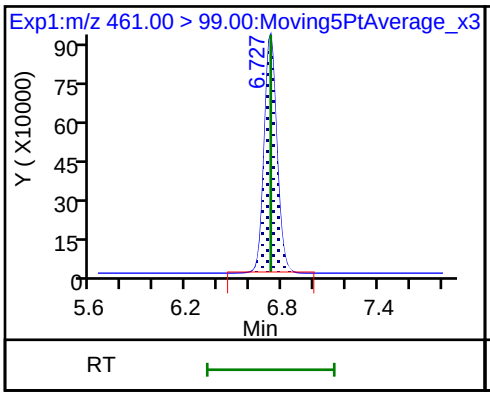
D 45 13C2-8:2FTS



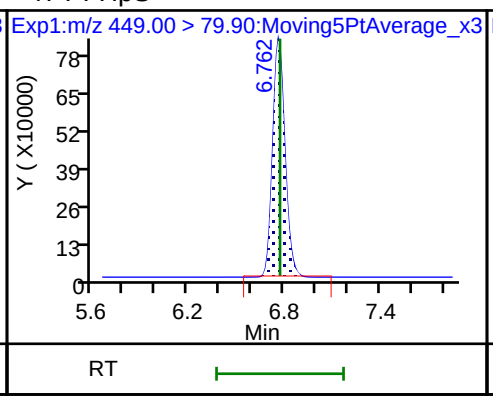
44 PFECHS



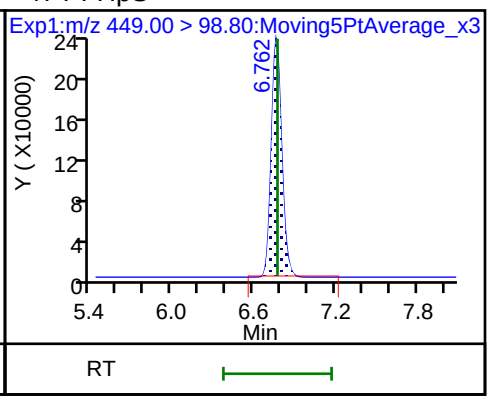
44 PFECHS



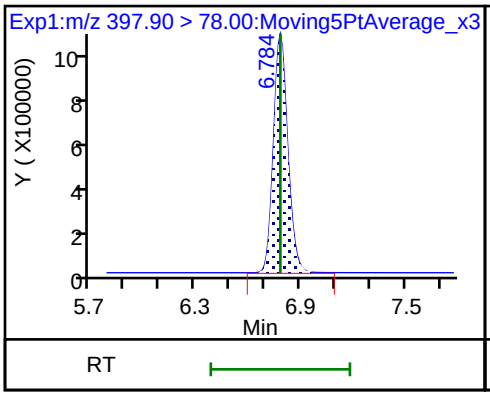
47 PFHpS



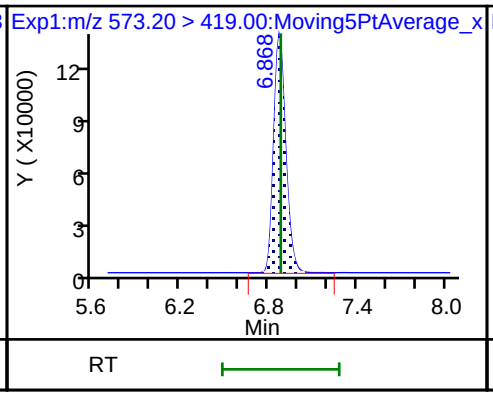
47 PFHpS



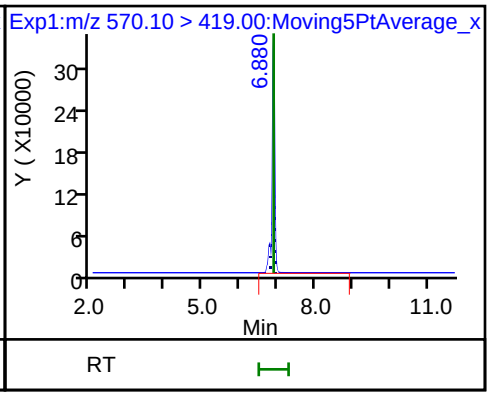
48 FHxSA



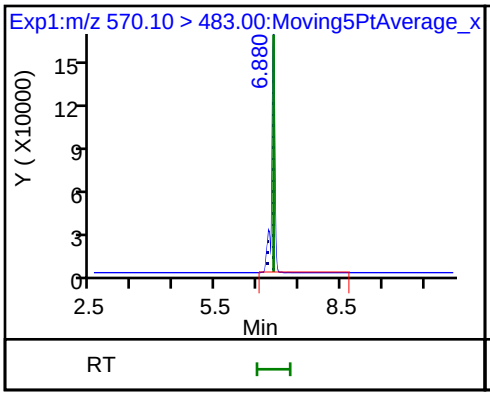
D 49 d3-NMeFOSAA



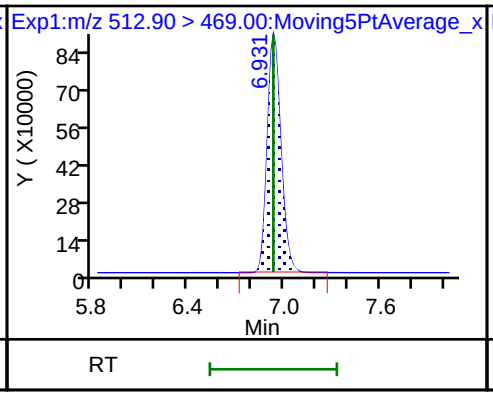
50 NMeFOSAA



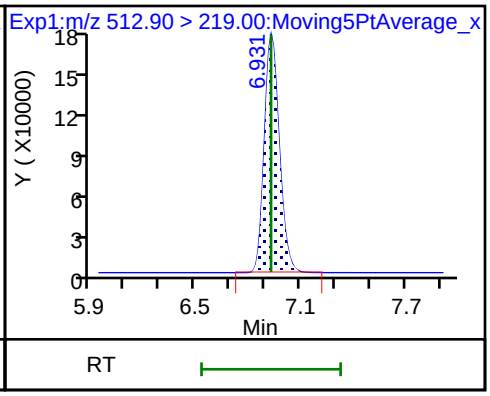
50 NMeFOSAA



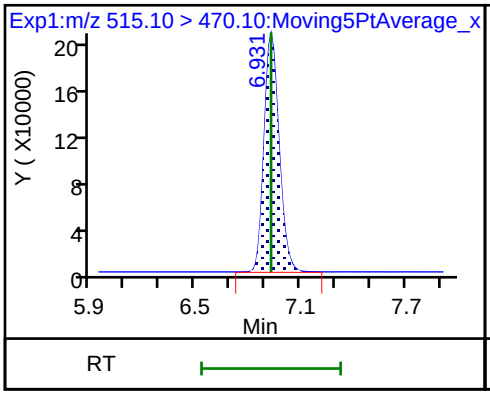
53 PFDA



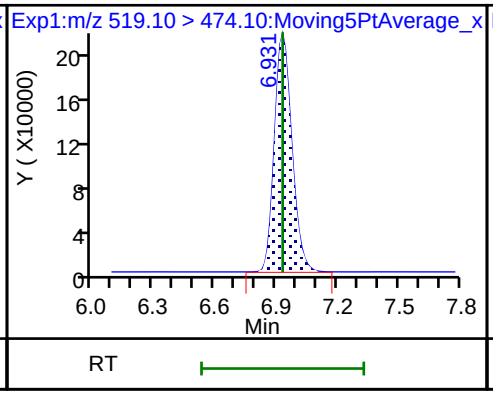
53 PFDA



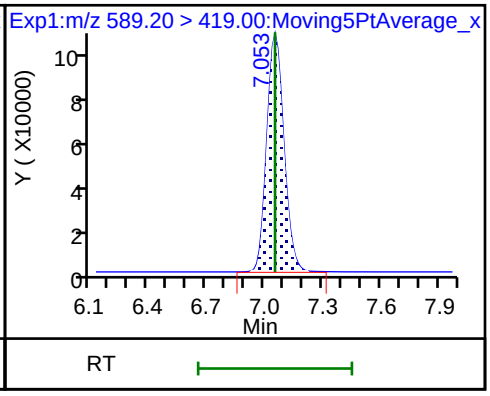
* 52 13C2 PFDA



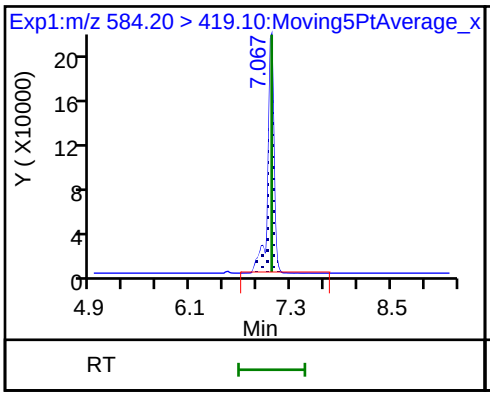
D 51 13C6 PFDA



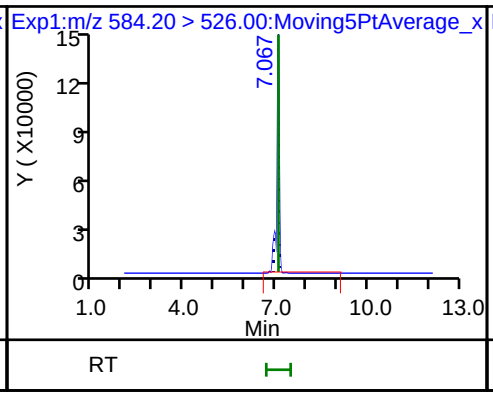
D 54 d5-NEtFOSAA



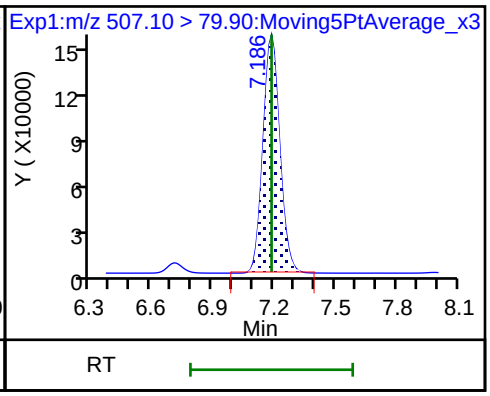
55 NEtFOSAA



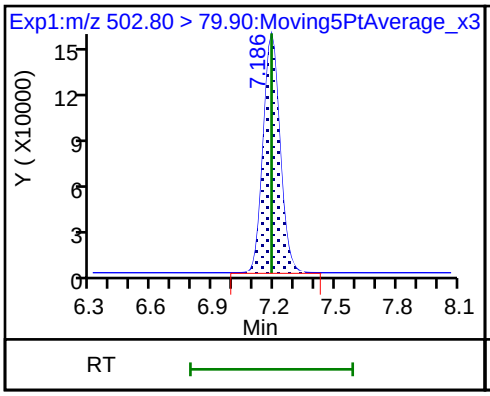
55 NEtFOSAA



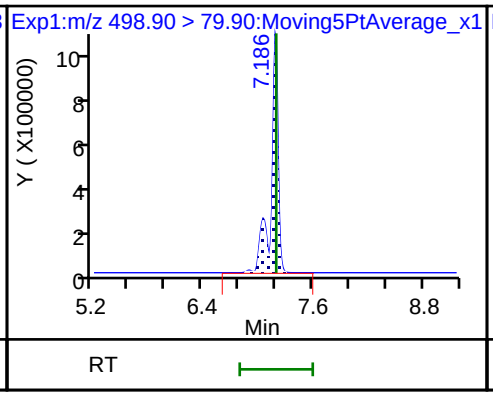
D 56 13C8 PFOS



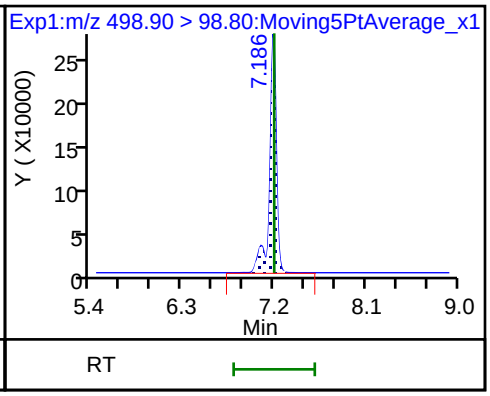
* 57 13C4 PFOS



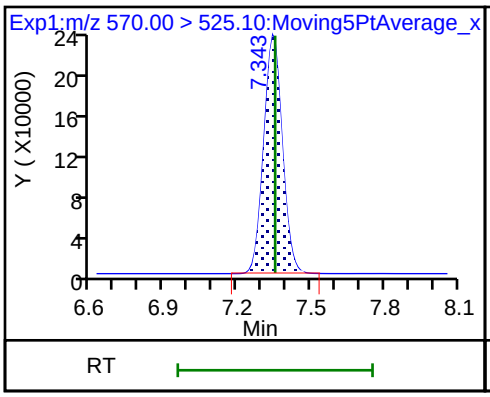
58 PFOS



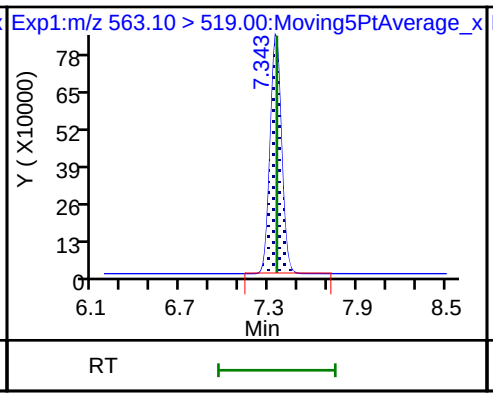
58 PFOS



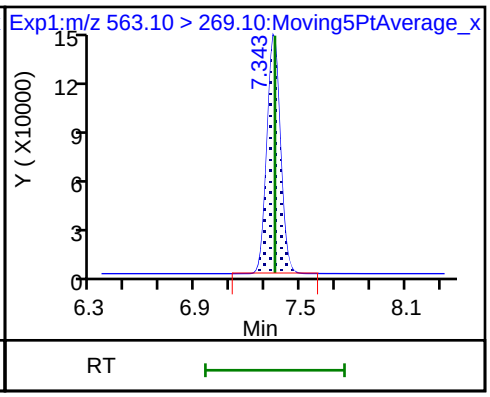
D 59 13C7 PFUnA



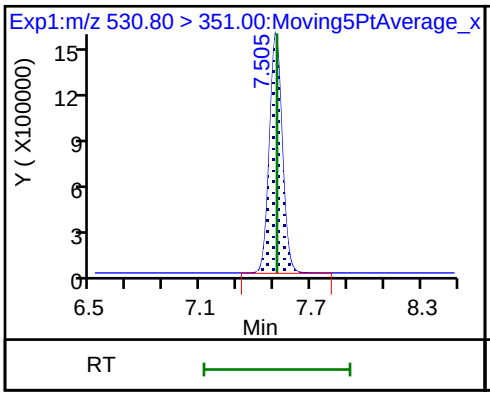
60 PFUnA



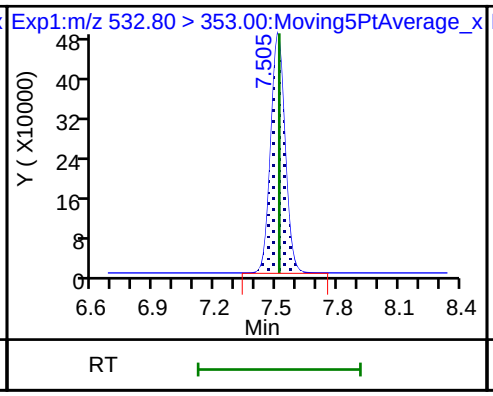
60 PFUnA



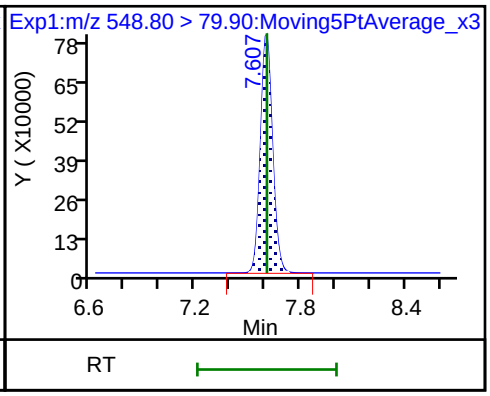
61 9ClFOS



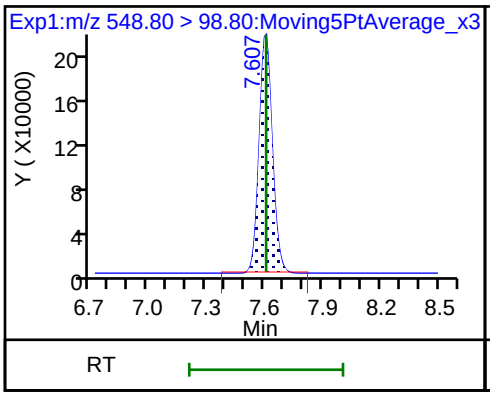
61 9ClFOS



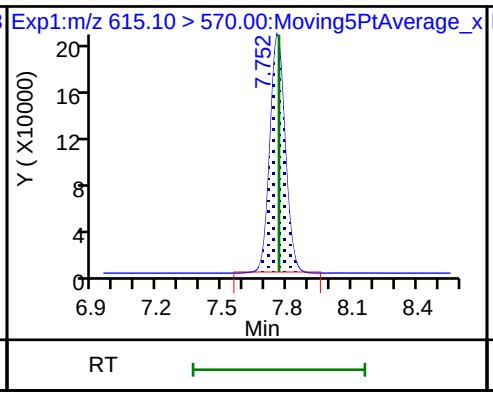
62 PFNS



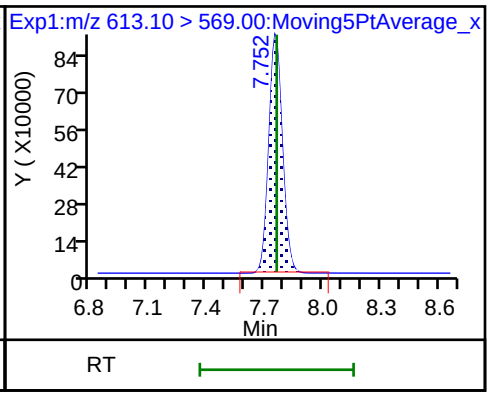
62 PFNS



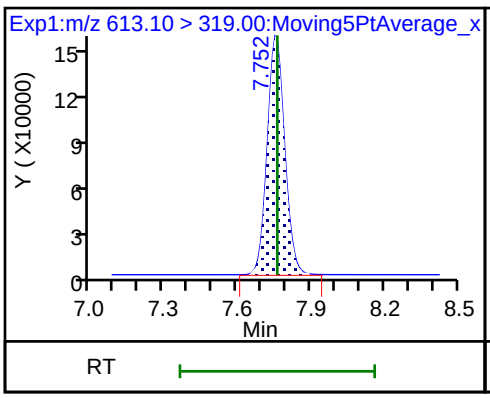
D 82 PFDoA



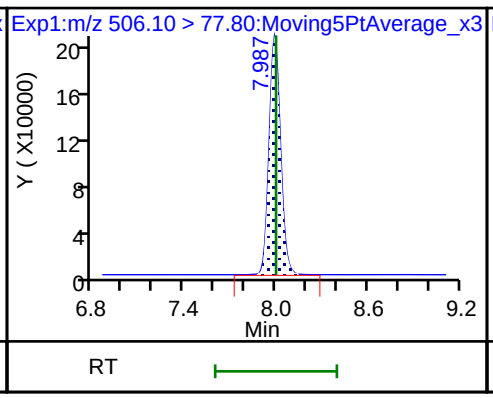
63 PFDoA



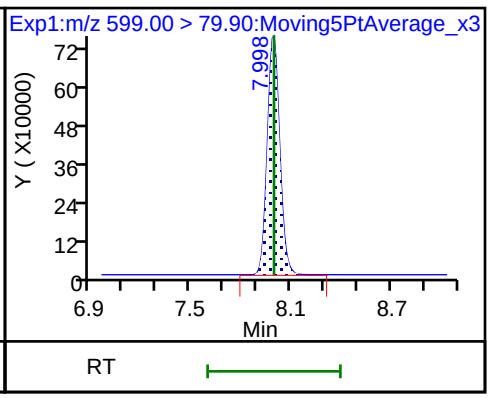
63 PFDoA



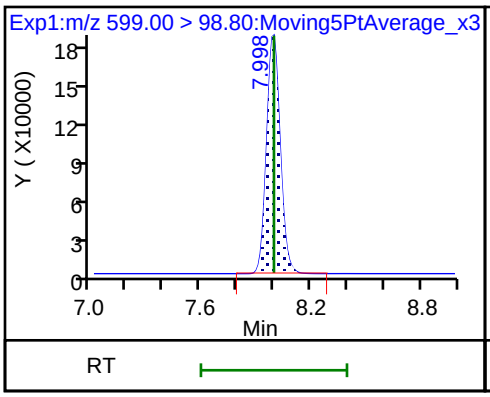
D 64 13C8 FOSA



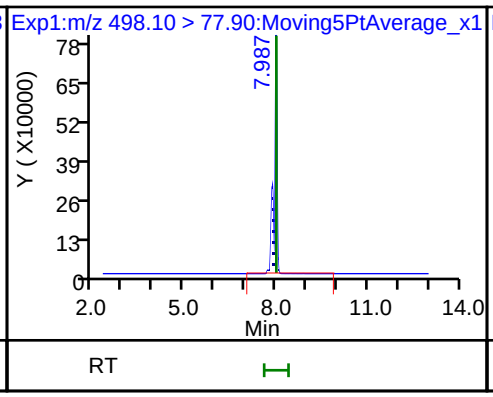
66 PFDS



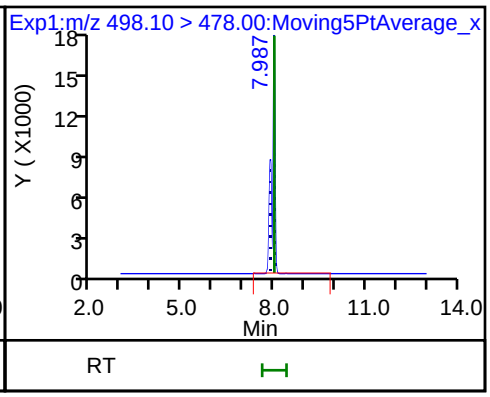
66 PFDS



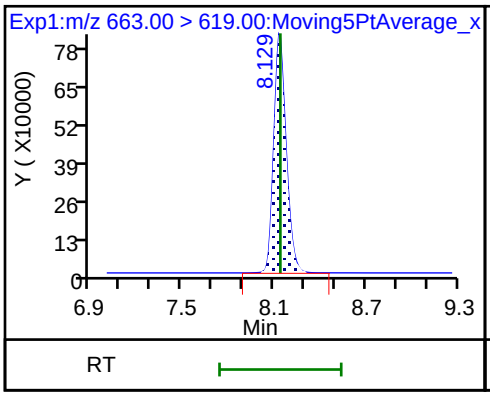
65 PFOSA



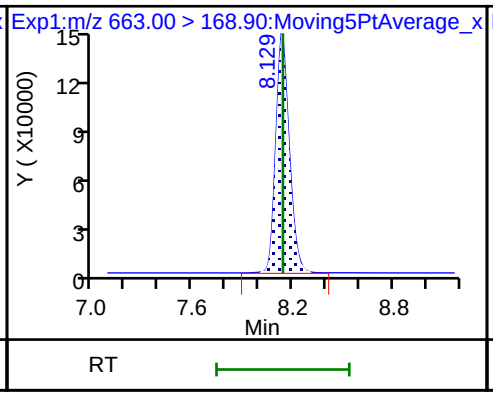
65 PFOSA



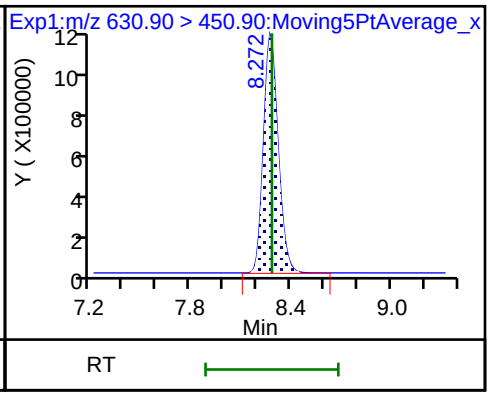
67 PFTrDA



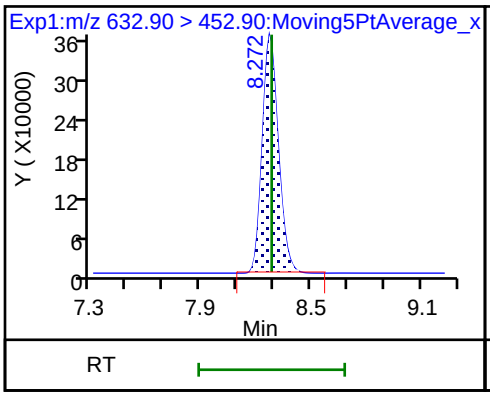
67 PFTrDA



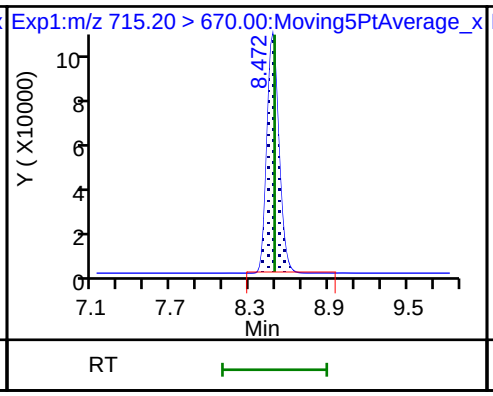
68 11ClFOS



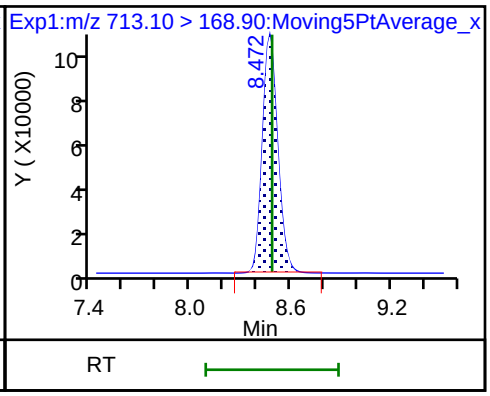
68 11ClFOS



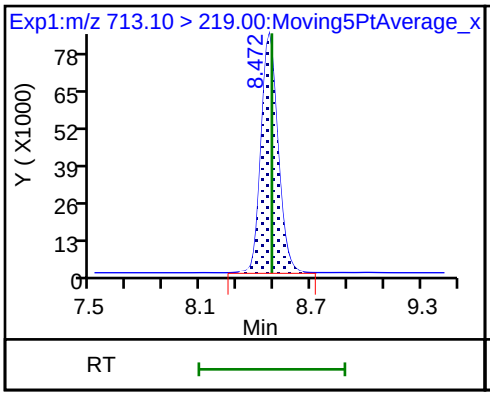
D 69 13C2 PFTeDA



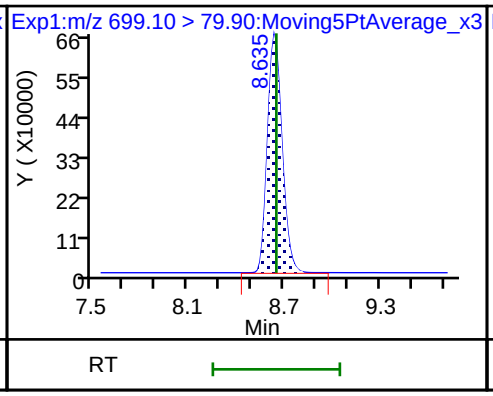
70 PFTeDA



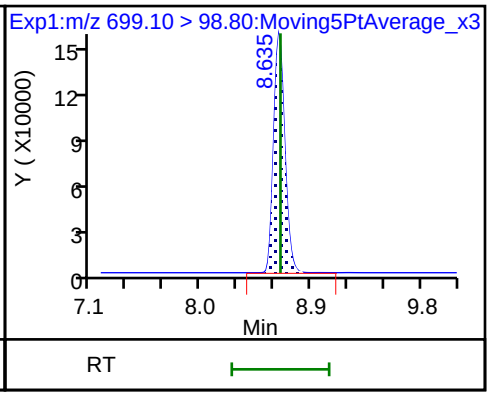
70 PFTeDA



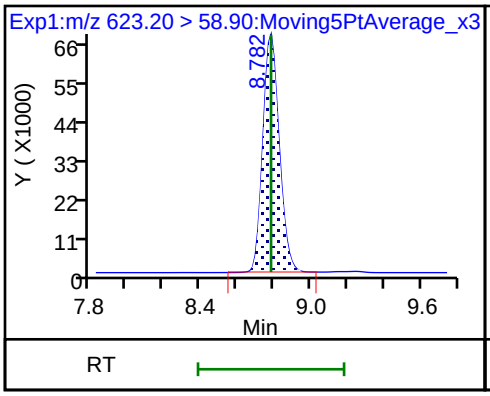
73 PFDoS



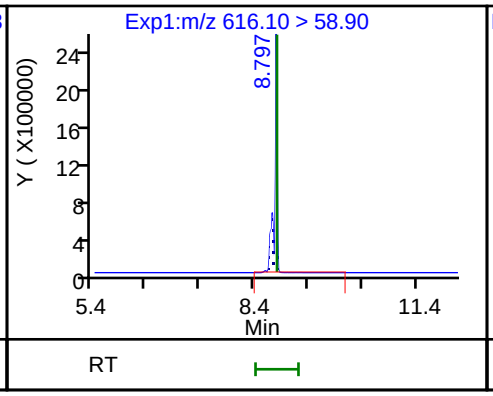
73 PFDoS



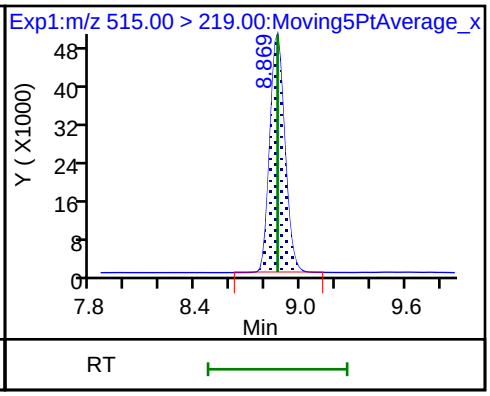
D 71 d7-N-Me-FOSE



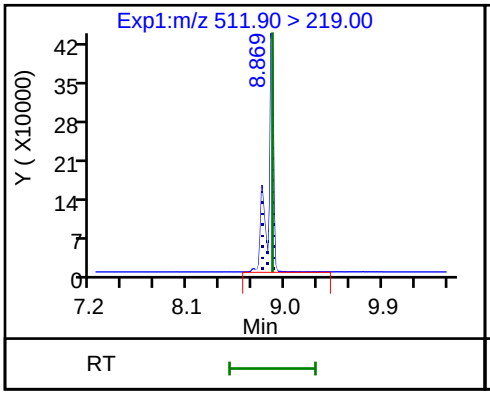
72 N-MeFOSE-M



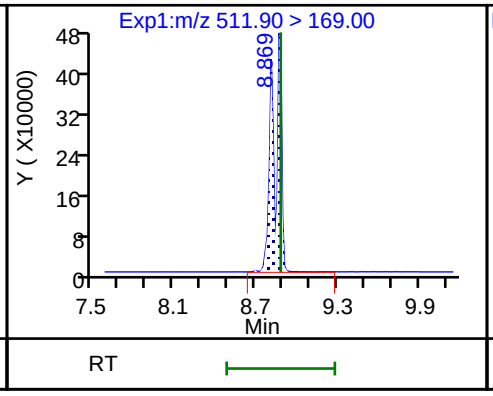
D 74 d3-NMePFOSA



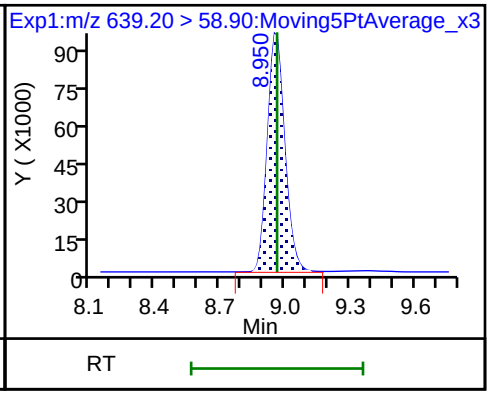
75 NMeFOSA



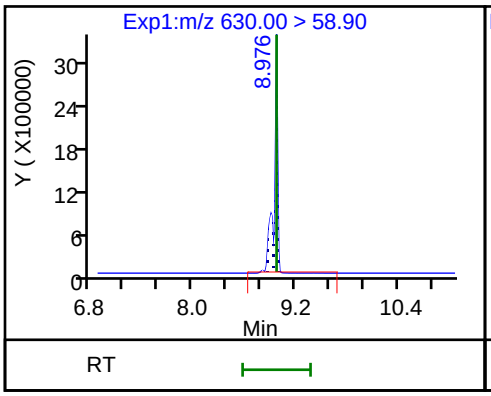
75 NMeFOSA



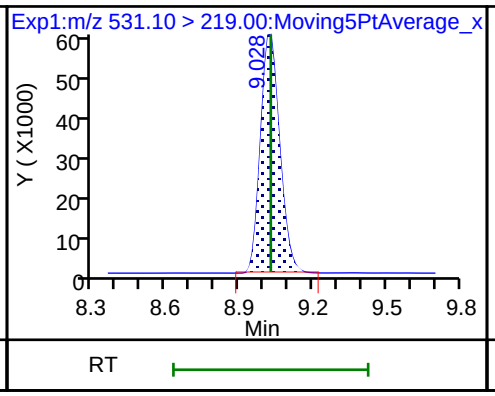
D 76 d9-N-EtFOSE



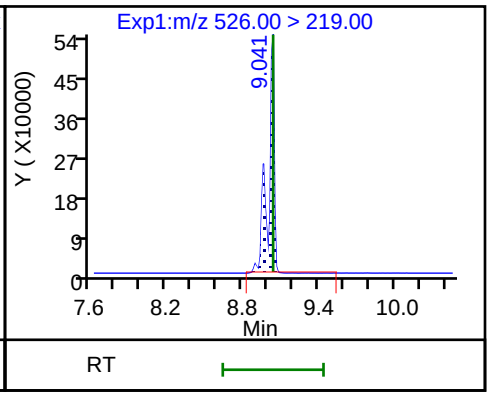
77 N-EtFOSE-M



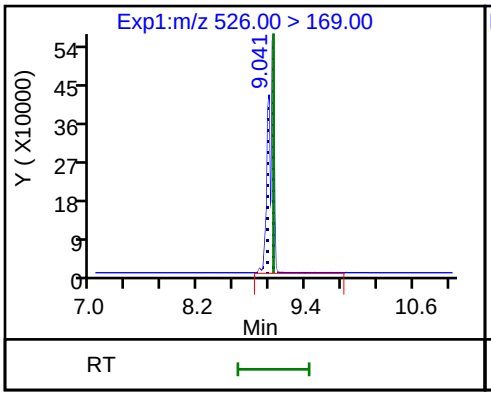
D 78 d5-NEtPFOSA



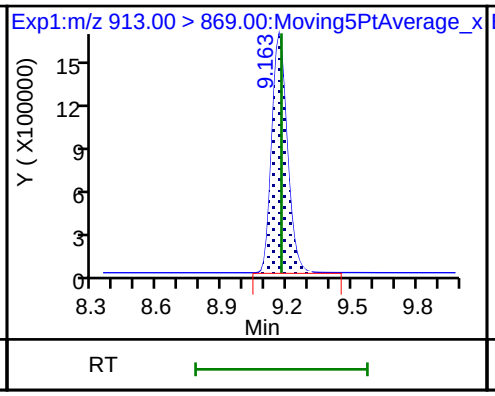
79 N-EtFOSA-M



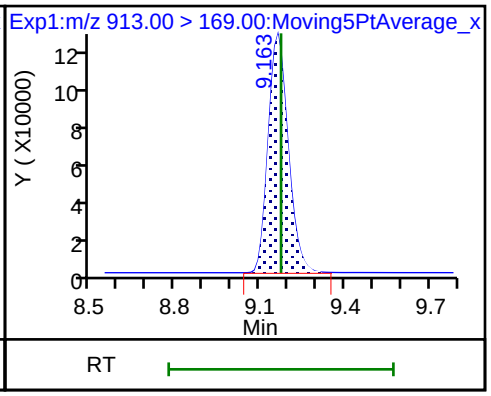
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d
Lims ID: IC CAL 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 12-Feb-2025 14:20:31 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL8
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:39:27 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 12-Feb-2025 14:42:42
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 13C3PFPrA										
166.00 > 121.00	2.070	2.054	0.016	0.495	787721	2.44		122	16093	
5 PFBA										
212.80 > 168.90	4.174	4.181	-0.007	0.998	44403776	94.5		94.5	810640	
D 3 13C4-PFBA										
216.80 > 171.90	4.183	4.181	0.002	1.000	1066131	1.98		98.8	53759	
* 4 13C3PFBA										
216.00 > 172.00	4.183	4.181	0.002		1009800	2.00			34223	
D 8 13C5 PFPeA										
268.30 > 223.00	4.821	4.832	-0.011	0.915	703600	1.98		98.9	47203	
9 PFPA										
263.00 > 219.00	4.821	4.832	-0.011	1.000	21257607	40.2		80.5	1393824	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.090	5.102	-0.012	0.804	363229	4.98		106	22456	
* 16 13C2 PFHxA										
315.10 > 270.00	5.271	5.283	-0.012		2914804	5.00			128603	
17 PFHxA										
313.00 > 269.00	5.283	5.283	0.0	1.002	20138654	42.2	Target=11.80	84.4	884852	
313.00 > 118.90	5.283	5.283	0.0	1.002	1891567		10.65(5.90-17.70)	84.4	111244	
D 15 13C5 PFHxA										
318.00 > 273.00	5.271	5.283	-0.012	1.000	1024973	1.99		99.4	60393	
D 18 13C3 PFBS										
302.10 > 79.90	5.400	5.414	-0.014	0.853	954978	1.88		101	51849	
19 PFBS										
298.70 > 79.90	5.400	5.414	-0.014	1.000	20211996	40.1	Target=3.05	90.3	1092568	
298.70 > 98.80	5.400	5.414	-0.014	1.000	6880987		2.94(1.53-4.58)	90.3	373356	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.457	5.470	-0.013	1.035	1341095	2.11		105	72264	
22 HFPO-DA										
284.90 > 168.90	5.457	5.470	-0.013	1.000	27578368	41.2	Target=2.44	82.4	1469829	
284.90 > 184.90	5.457	5.470	-0.013	1.000	11453856		2.41(1.22-3.66)	82.4	614029	
28 PFHpA										
363.10 > 319.00	5.709	5.708	0.001	1.000	20557415	42.8	Target=2.64	85.7	433942	
363.10 > 169.00	5.709	5.708	0.001	1.000	8302772		2.48(1.32-3.96)	85.7	464718	
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.708	0.001	1.083	1007097	1.93		96.3	56411	
30 ADONA										
376.90 > 250.90	5.859	5.858	0.001	1.074	30261952	23.7	Target=1.75	66.7	22676	
376.90 > 84.80	5.859	5.858	0.001	1.074	18396038		1.65(0.87-2.62)	66.7	1141332	
29 PFPeS										
349.10 > 79.90	5.882	5.893	-0.011	0.929	19781975	42.8	Target=3.14	91.1	926993	
349.10 > 98.90	5.882	5.893	-0.011	0.929	6026525		3.28(1.57-4.71)	91.1	377136	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.905	5.916	-0.011	0.933	371166	4.86		102	24552	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.122	-0.012	0.998	1470617	2.02		101	55485	
36 PFOA										
413.00 > 369.00	6.110	6.122	-0.012	1.000	26196533	44.9	Target=2.44	89.9	2468542	
413.00 > 169.00	6.110	6.122	-0.012	1.000	11235261		2.33(1.22-3.66)	89.9	64247	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.122	0.0		3419686	5.00			421717	
D 38 13C3 PFHxS										
402.10 > 79.90	6.332	6.330	0.002	1.000	888421	1.87		98.7	51478	
* 37 18O2 PFHxS										
403.00 > 83.90	6.332	6.330	0.002		875609	1.89			50638	
40 PFHxS										
398.70 > 79.90	6.332	6.343	-0.011	1.000	16381840	42.3	Target=3.16	92.8	1050599	
398.70 > 98.90	6.332	6.343	-0.011	1.000	5010761		3.27(1.58-4.74)	92.8	1036908	
* 42 13C5 PFNA										
468.00 > 423.00	6.519	6.530	-0.011		1215869	2.00			52907	
D 41 13C9 PFNA										
472.10 > 427.00	6.519	6.530	-0.011	1.000	1234460	1.98		99.1	53856	
43 PFNA										
463.00 > 419.00	6.519	6.530	-0.011	1.000	22683209	44.7	Target=2.70	89.4	4338524	
463.00 > 219.00	6.519	6.530	-0.011	1.000	8448917		2.68(1.35-4.05)	89.4	423525	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.706	6.715	-0.009	1.059	345942	5.25		109	21299	
47 PFHpS										
449.00 > 79.90	6.763	6.773	-0.010	0.941	19826372	44.2	Target=3.62	92.7	1220403	
449.00 > 98.80	6.763	6.773	-0.010	0.941	5506109		3.60(1.81-5.43)	92.7	340414	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.870	6.880	-0.010	0.956	832810	6.09		122	48778	
* 52 13C2 PFDA										
515.10 > 470.10	6.934	6.931	0.003		1321637	2.00			73737	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 51 13C6 PFDA										
519.10 > 474.10	6.934	6.931	0.003	1.000	1412327	2.03		101	59306	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.053	0.004	0.982	790790	7.05		141	42786	
D 56 13C8 PFOS										
507.10 > 79.90	7.190	7.186	0.004	1.000	806151	2.01		105	27505	
* 57 13C4 PFOS										
502.80 > 79.90	7.190	7.186	0.004		750530	1.91			42952	
58 PFOS										
498.90 > 79.90	7.190	7.198	-0.008	1.000	22352778	41.7	Target=4.24	89.6	3892428	
498.90 > 98.80	7.190	7.198	-0.008	1.000	5060384		4.42(2.12-6.36)	89.6	1047512	
D 59 13C7 PFUnA										
570.00 > 525.10	7.345	7.353	-0.008	1.059	1274860	1.96		98.0	60359	
D 82 PFDoA										
615.10 > 570.00	7.755	7.762	-0.007	1.118	1072783	1.96		98.0	72974	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	7.997	-0.006	1.111	1157631	2.42		121	55450	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.463	8.486	-0.023	1.221	767929	1.99		99.3	39851	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.781	-0.007	1.220	433160	5.82		116	11547	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.861	8.868	-0.007	1.233	292956	2.33		117	12327	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.956	8.962	-0.006	1.246	570226	5.89		118	12902	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.027	-0.006	1.255	333386	2.35		118	20665	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL8_00015 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:39:28 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Injection Date: 12-Feb-2025 14:20:31 Instrument ID: 30576

Lims ID: IC CAL 8

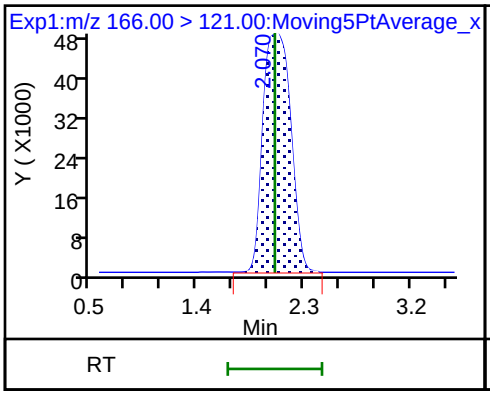
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 9 Worklist Smp#: 8

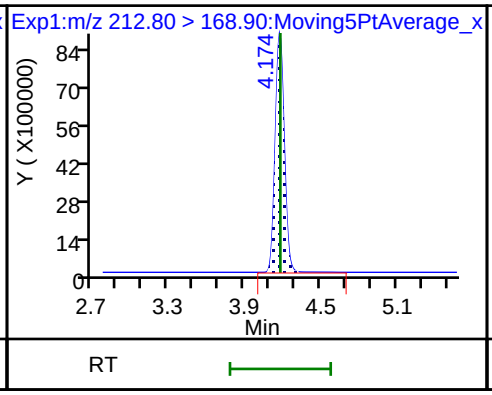
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

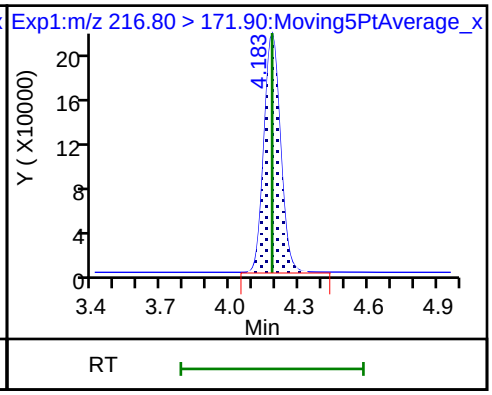
D 1 13C3PFPrA



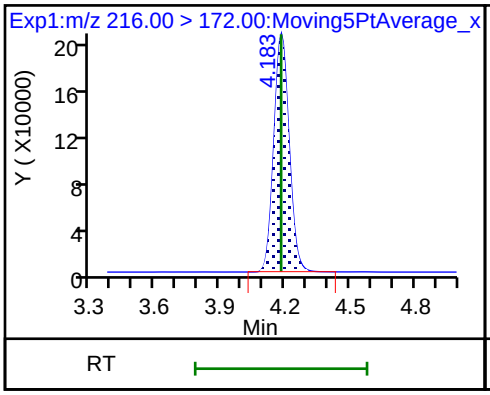
5 PFBA



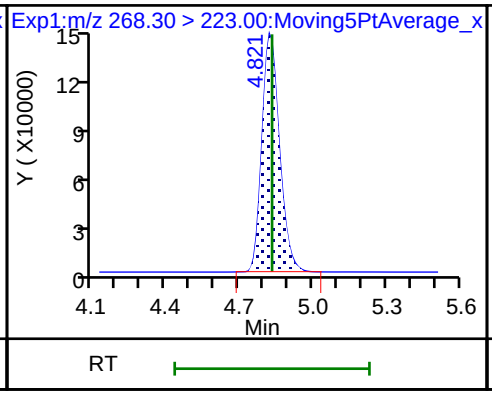
D 3 13C4-PFBA



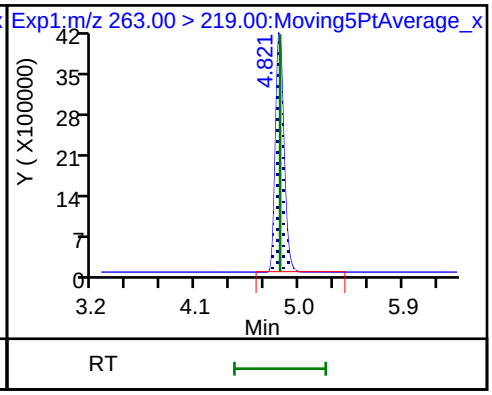
* 4 13C3PFBA



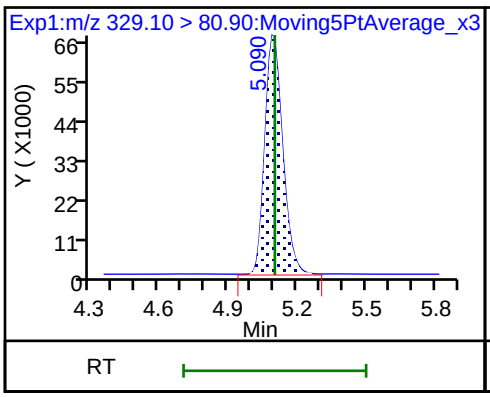
D 8 13C5 PFPeA



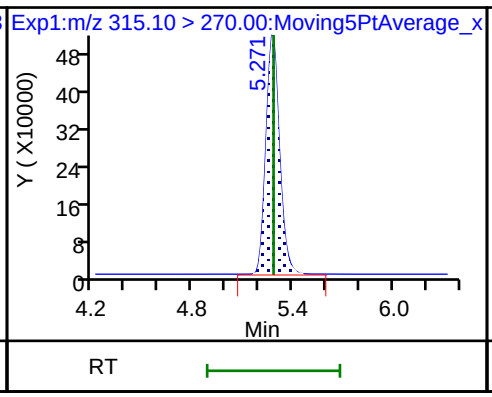
9 PFPA



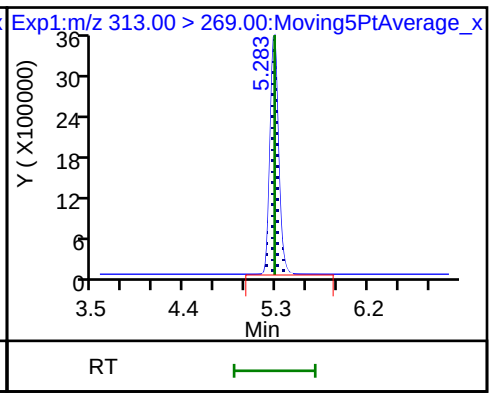
D 11 13C2-4:2FTS



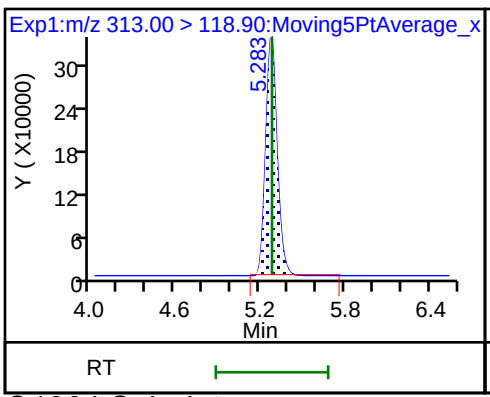
* 16 13C2 PFHxA



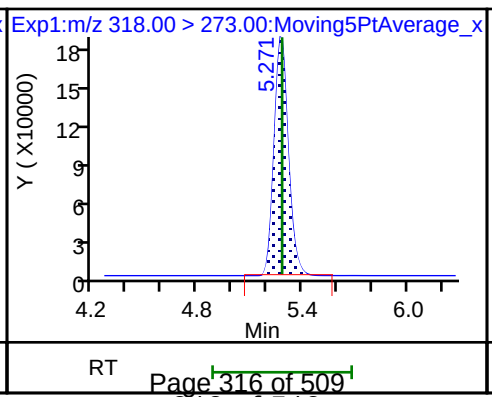
17 PFHxA



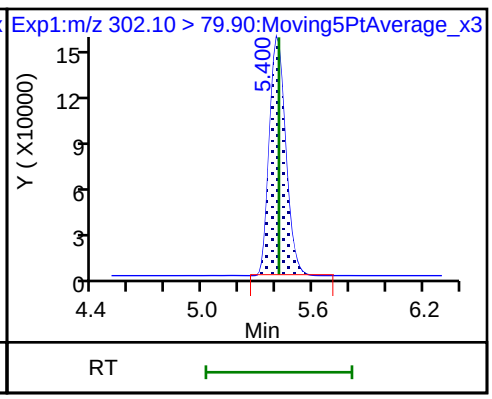
17 PFHxA



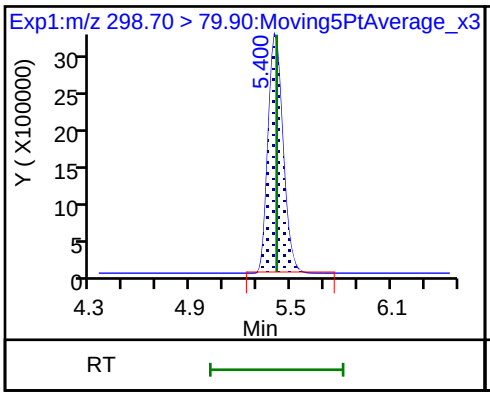
D 15 13C5 PFHxA



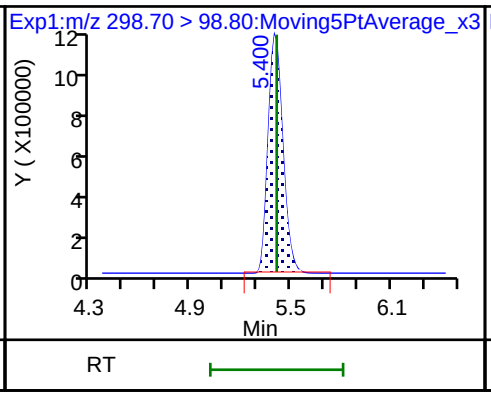
D 18 13C3 PFBS



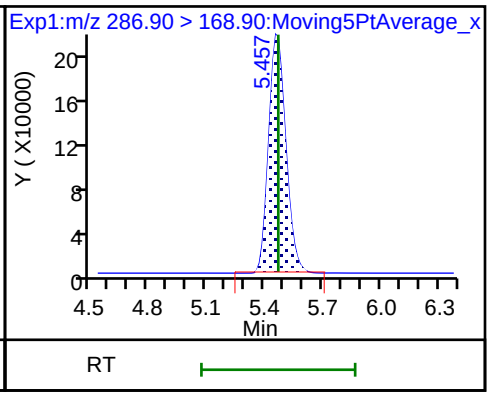
19 PFBS



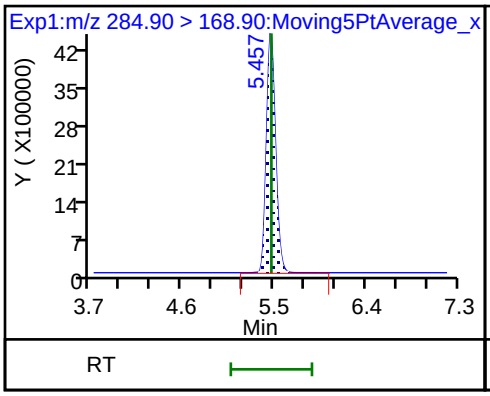
19 PFBS



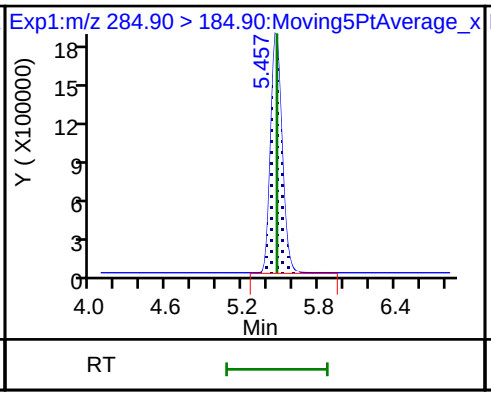
D 21 13C3 HFPO-DA



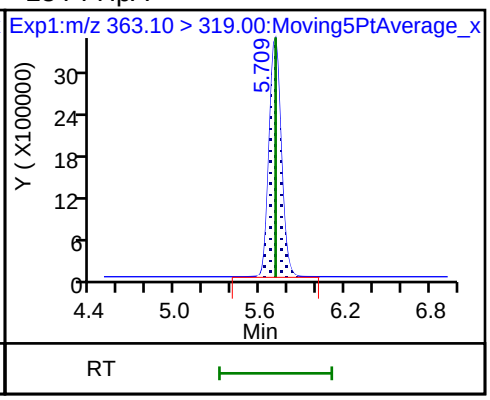
22 HFPO-DA



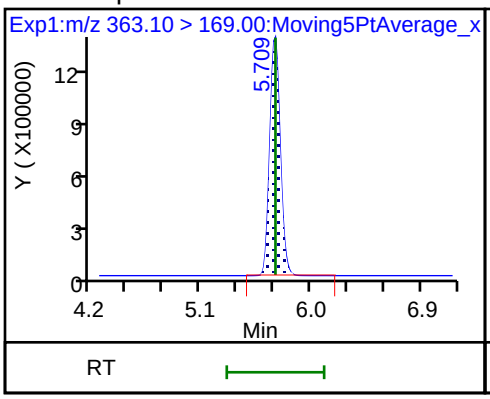
22 HFPO-DA



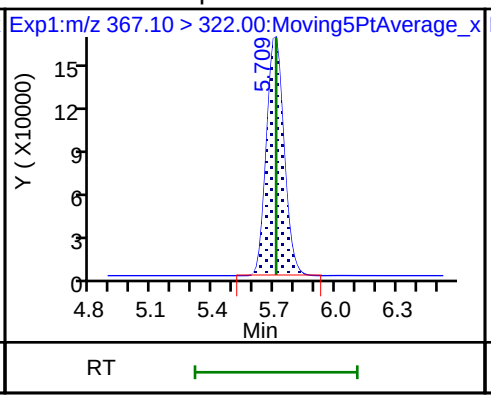
28 PFHpA



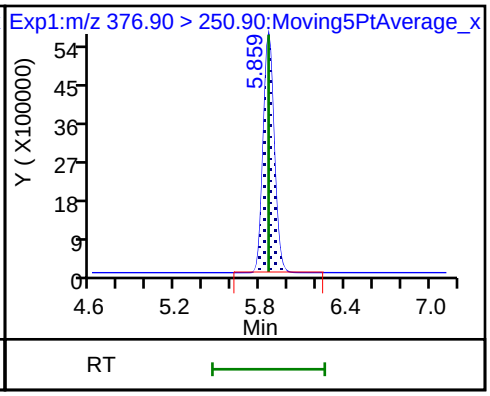
28 PFHpA



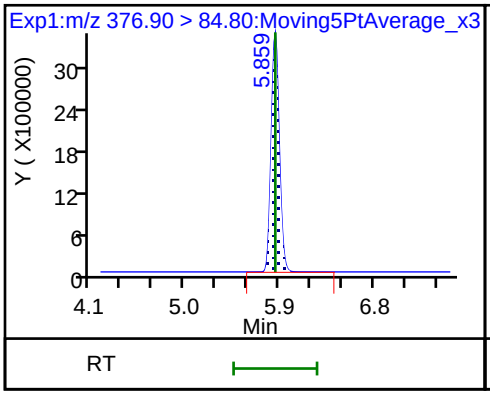
D 26 13C4 PFHpA



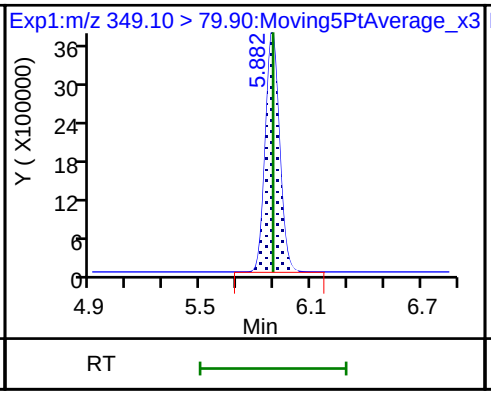
30 ADONA



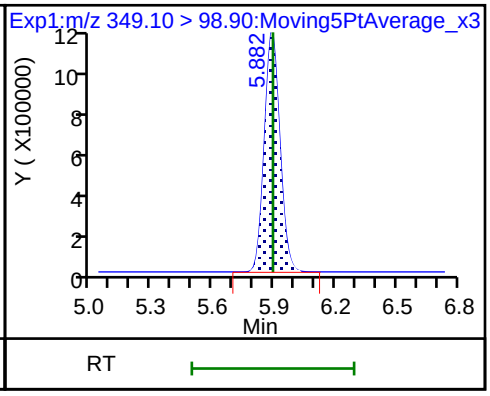
30 ADONA



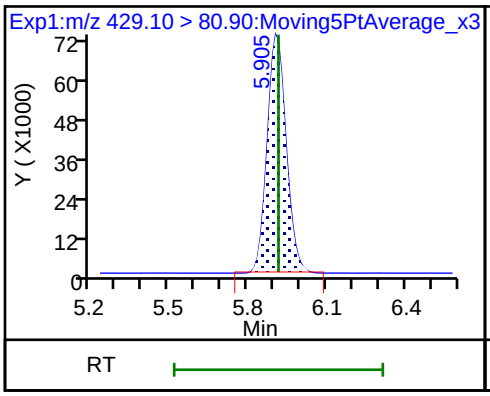
29 PFPeS



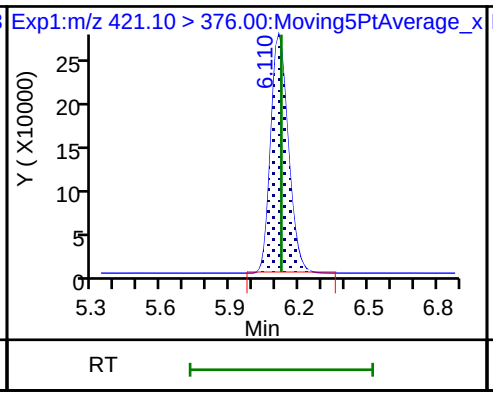
29 PFPeS



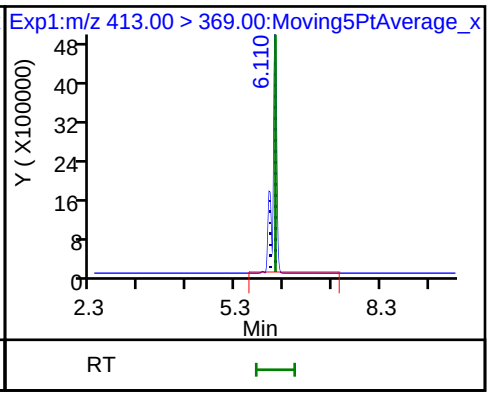
D 31 13C2-6:2FTS



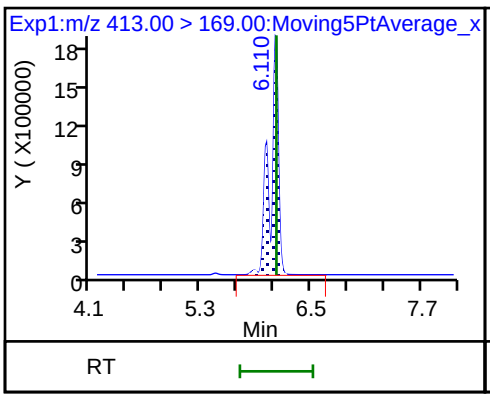
D 34 13C8 PFOA



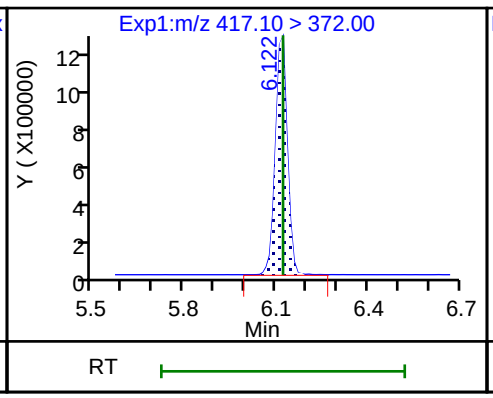
36 PFOA



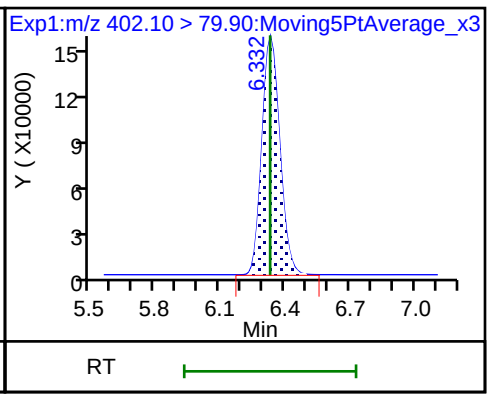
36 PFOA



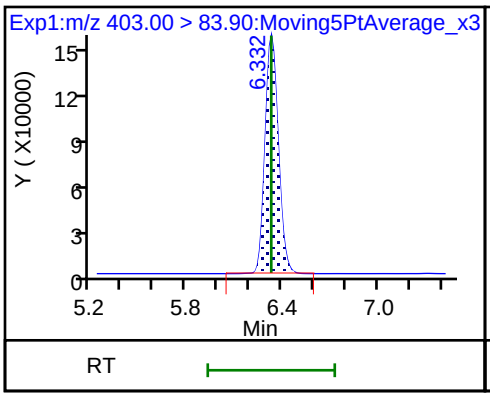
* 35 13C4 PFOA



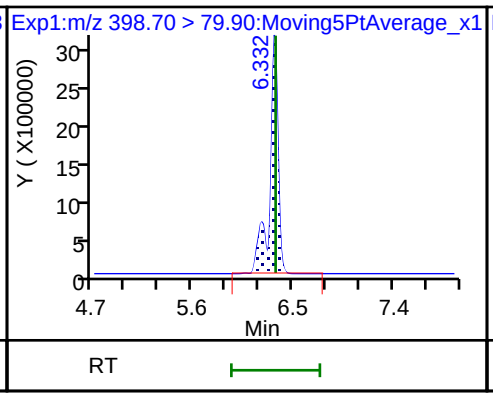
D 38 13C3 PFHxS



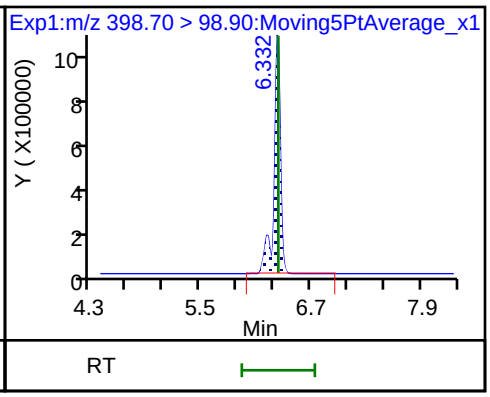
* 37 18O2 PFHxS



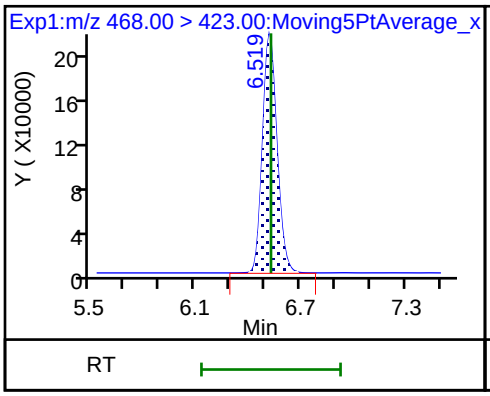
40 PFHxS



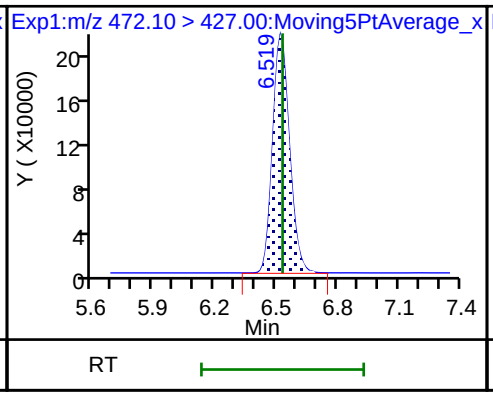
40 PFHxS



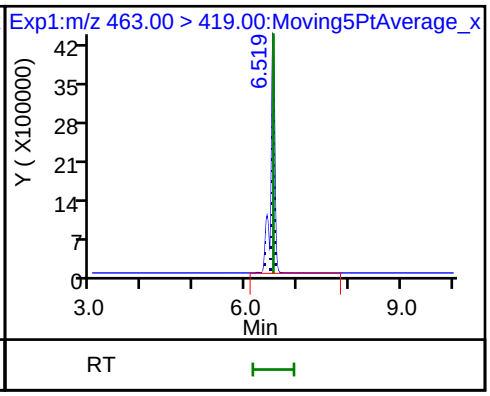
* 42 13C5 PFNA



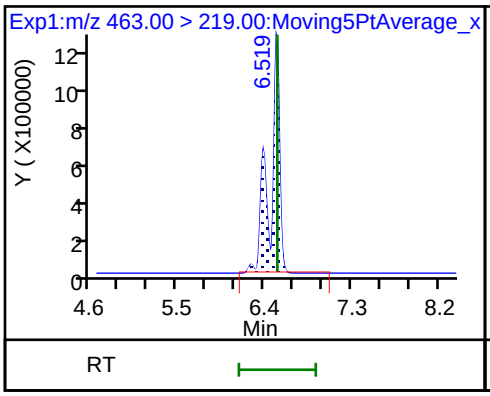
D 41 13C9 PFNA



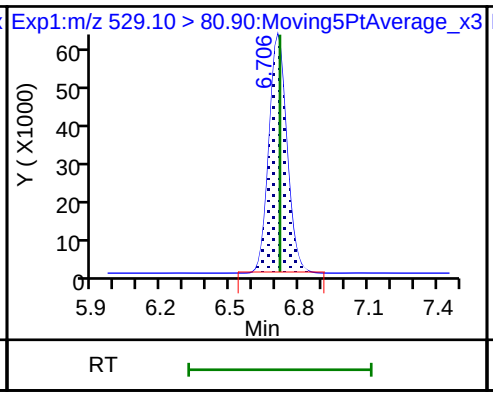
43 PFNA



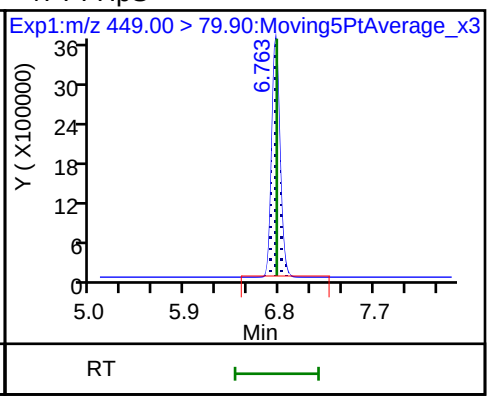
43 PFNA



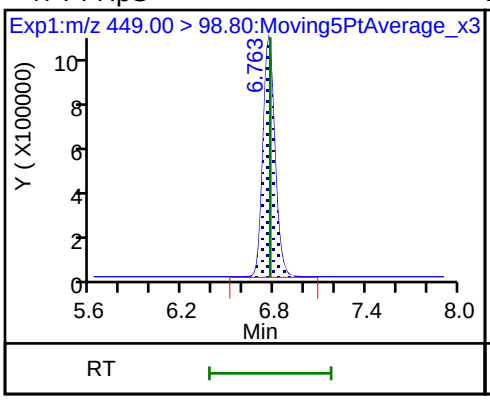
D 45 13C2-8:2FTS



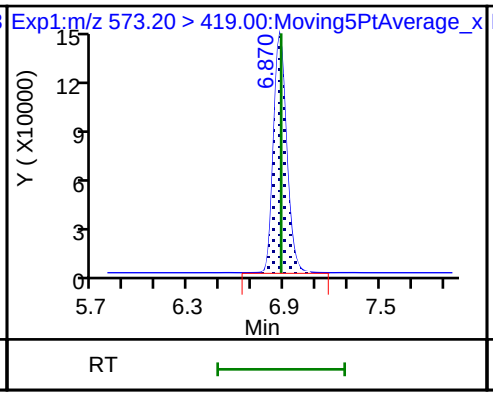
47 PFHpS



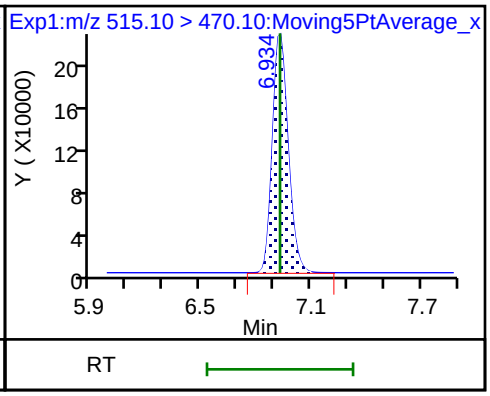
47 PFHpS



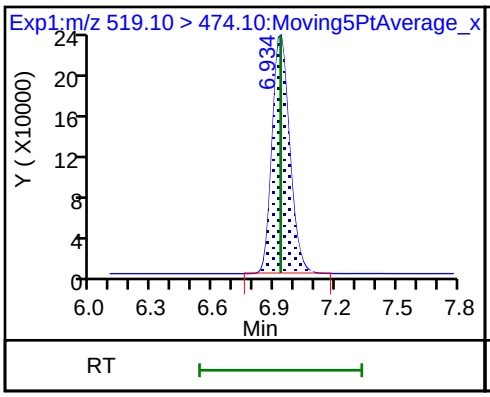
D 49 d3-NMeFOSAA



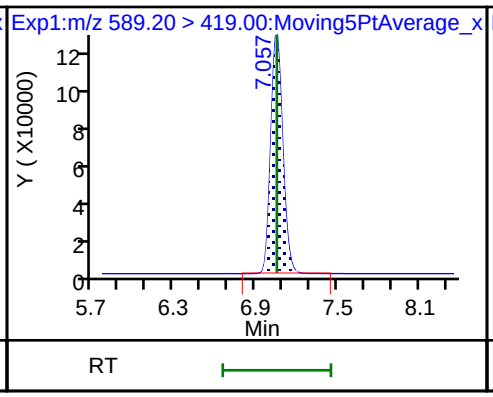
* 52 13C2 PFDA



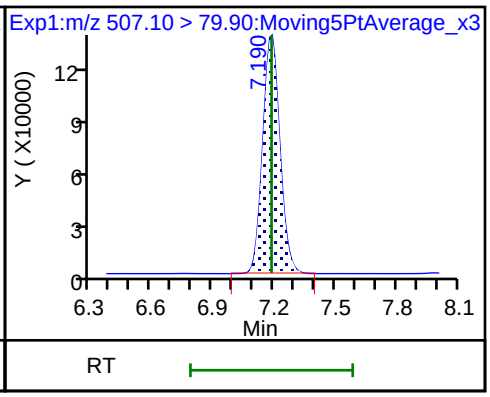
D 51 13C6 PFDA



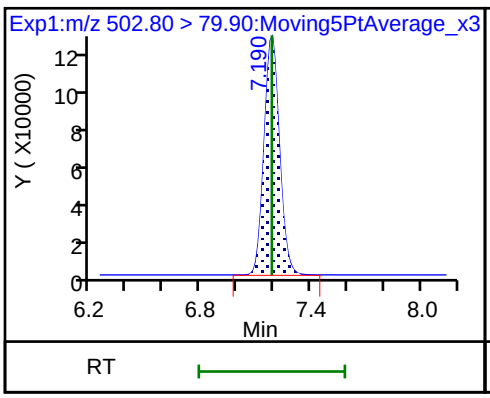
D 54 d5-NEtFOSAA



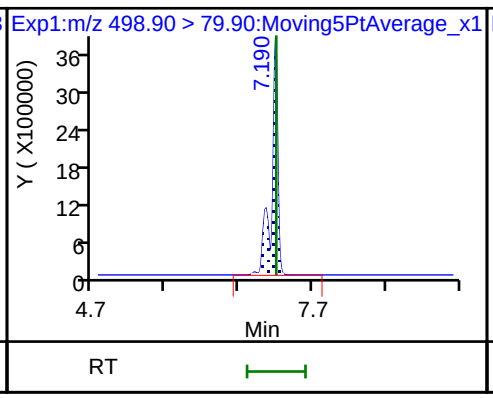
D 56 13C8 PFOS



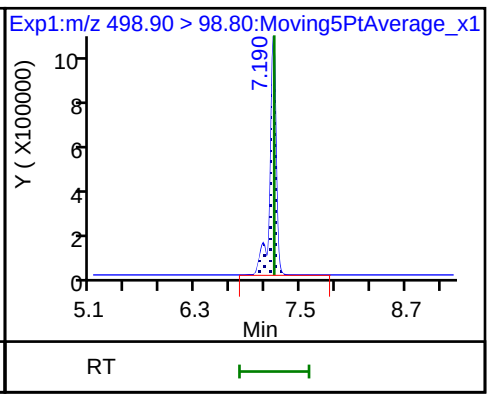
* 57 13C4 PFOS



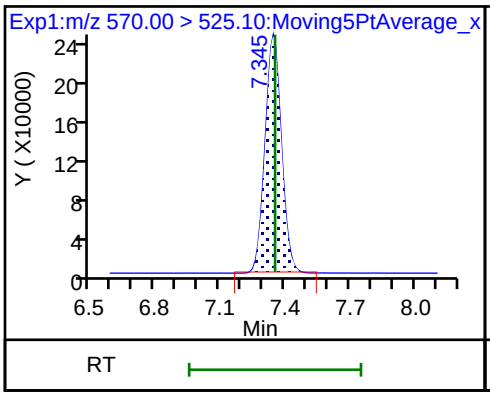
58 PFOS



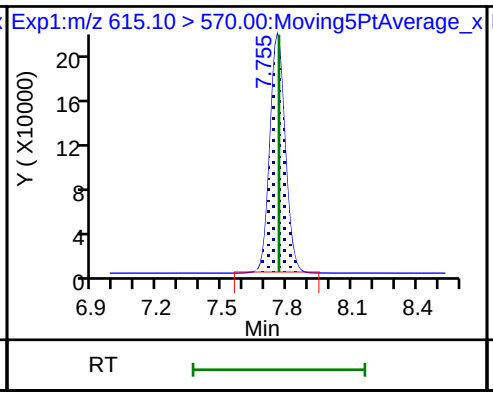
58 PFOS



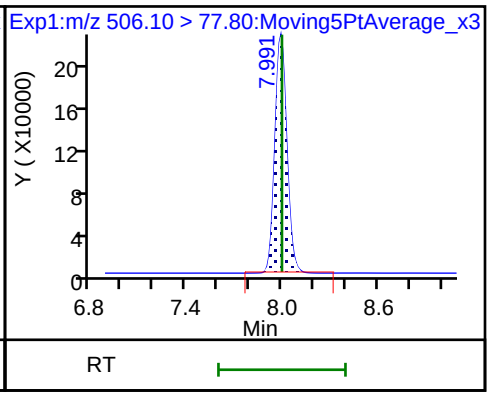
D 59 13C7 PFUnA



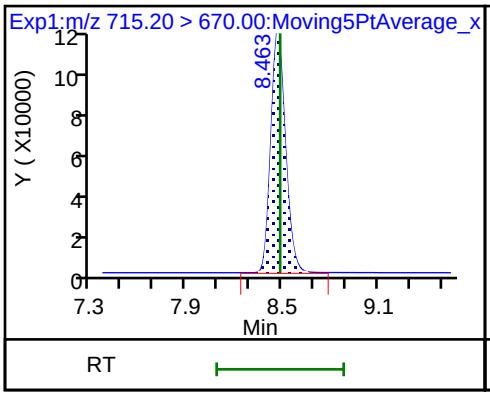
D 82 PFDoA



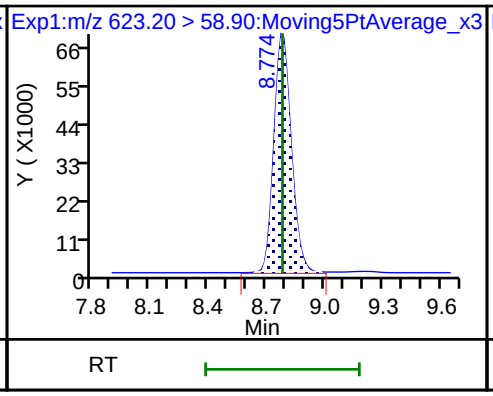
D 64 13C8 FOSA



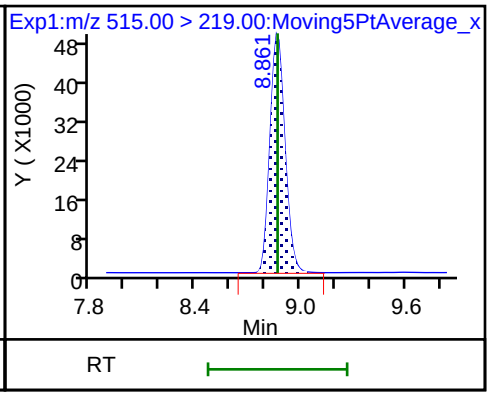
D 69 13C2 PFTeDA



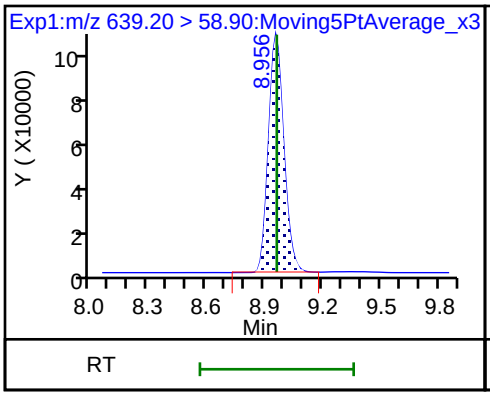
D 71 d7-N-Me-FOSE



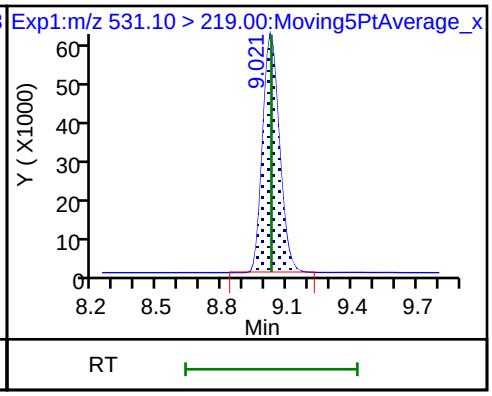
D 74 d3-NMePFOSA



D 76 d9-N-EtFOSE



D 78 d5-NEtPFOSA



Calibration / Perfluoropropionic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

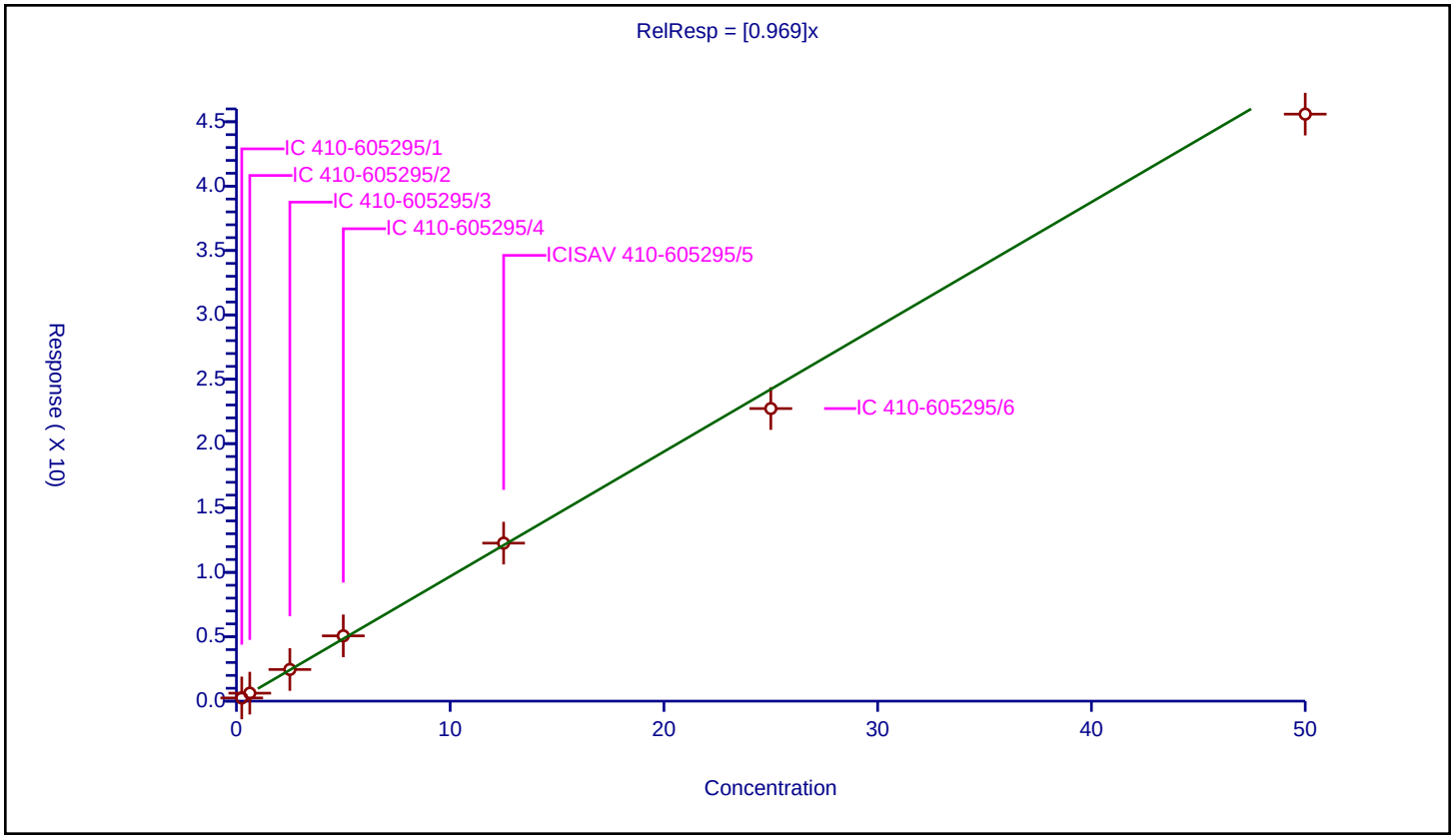
Curve Coefficients

Intercept:	0
Slope:	0.969

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.25	0.247988	2.0	770560.0	0.991954	Y
2	IC 410-605295/2	0.625	0.619126	2.0	780316.0	0.990602	Y
3	IC 410-605295/3	2.5	2.458323	2.0	773323.0	0.983329	Y
4	IC 410-605295/4	5.0	5.072257	2.0	762933.0	1.014451	Y
5	ICISAV 410-605295/5	12.5	12.272278	2.0	802923.0	0.981782	Y
6	IC 410-605295/6	25.0	22.726205	2.0	774013.0	0.909048	Y
7	IC 410-605295/7	50.0	45.594009	2.0	744696.0	0.91188	Y



Calibration / Perfluorobutanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

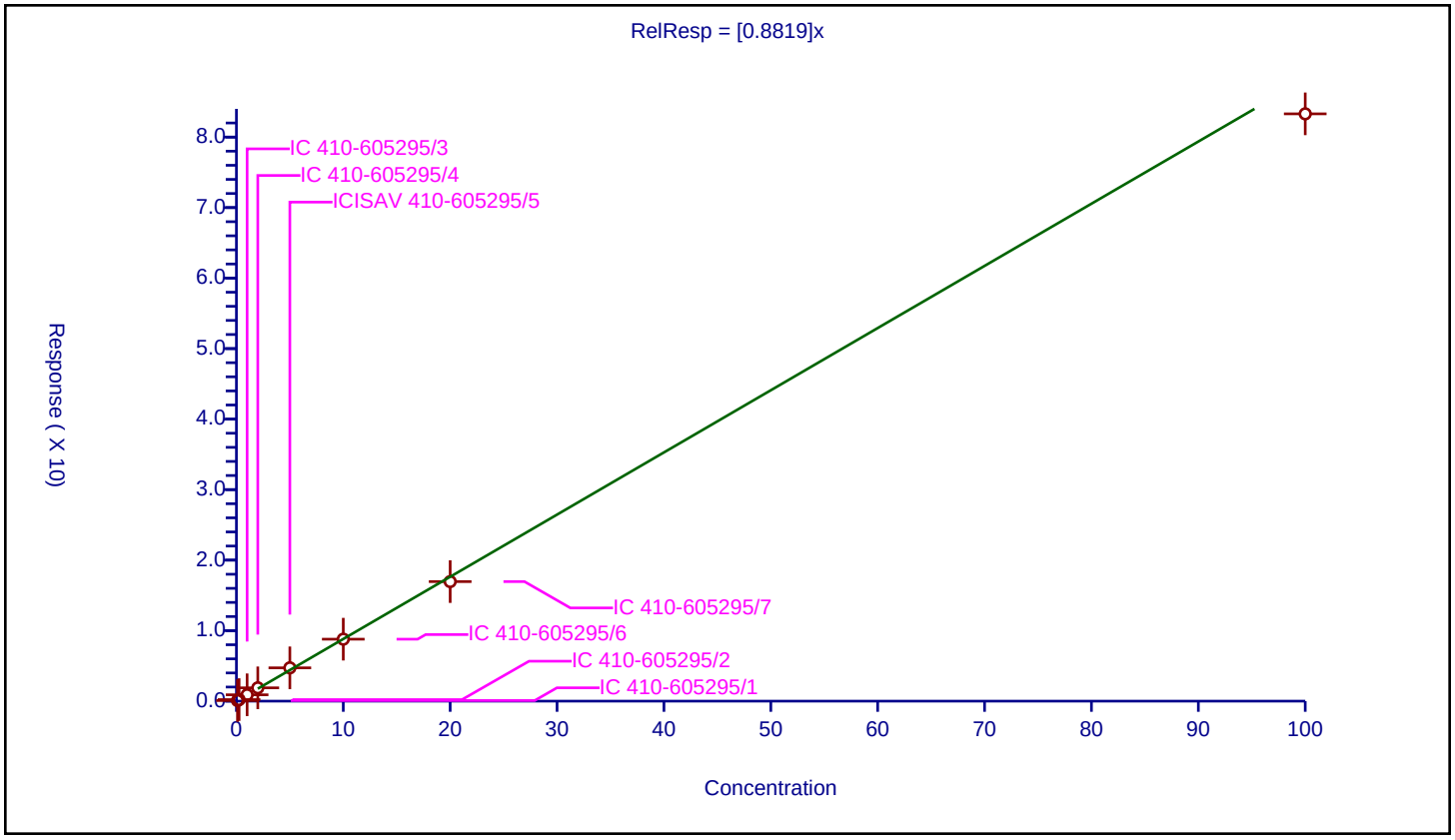
Curve Coefficients

Intercept:	0
Slope:	0.8819

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.1	0.084067	2.0	1396101.0	0.84067	Y
2	IC 410-605295/2	0.25	0.216227	2.0	1335839.0	0.864907	Y
3	IC 410-605295/3	1.0	0.902304	2.0	1361606.0	0.902304	Y
4	IC 410-605295/4	2.0	1.885571	2.0	1326688.0	0.942785	Y
5	ICISAV 410-605295/5	5.0	4.723587	2.0	1358241.0	0.944717	Y
6	IC 410-605295/6	10.0	8.788958	2.0	1302718.0	0.878896	Y
7	IC 410-605295/7	20.0	16.955827	2.0	1276375.0	0.847791	Y
8	IC 410-605295/8	100.0	83.298912	2.0	1066131.0	0.832989	Y



Calibration / Perfluoro-3-methoxypropanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

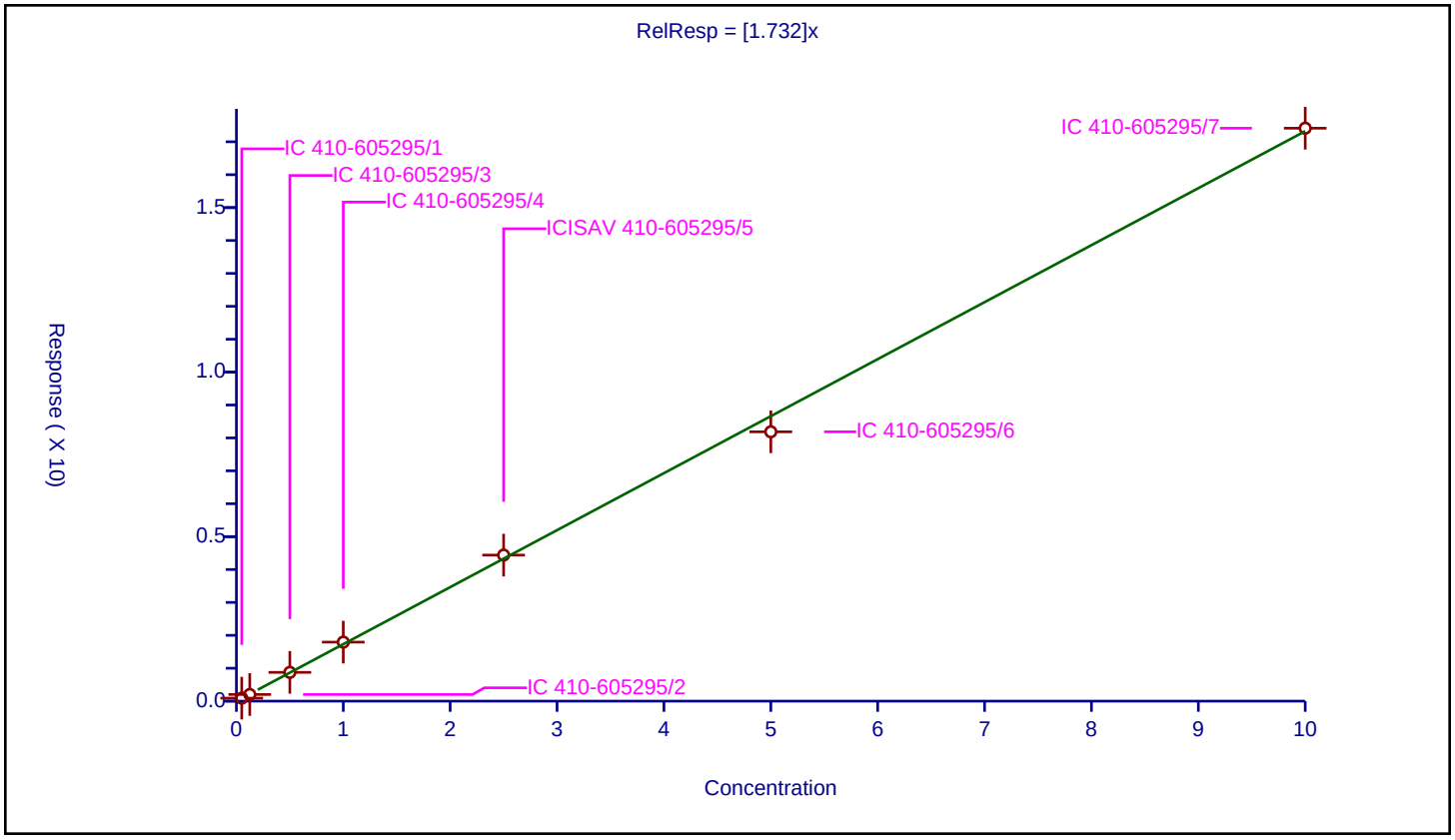
Curve Coefficients

Intercept:	0
Slope:	1.732

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.09071	2.0	753852.0	1.814202	Y
2	IC 410-605295/2	0.125	0.201962	2.0	794556.0	1.615695	Y
3	IC 410-605295/3	0.5	0.874248	2.0	787921.0	1.748495	Y
4	IC 410-605295/4	1.0	1.793616	2.0	765099.0	1.793616	Y
5	ICISAV 410-605295/5	2.5	4.438626	2.0	790747.0	1.77545	Y
6	IC 410-605295/6	5.0	8.185675	2.0	763292.0	1.637135	Y
7	IC 410-605295/7	10.0	17.412599	2.0	748272.0	1.74126	Y



Calibration / 3:3 FTCA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

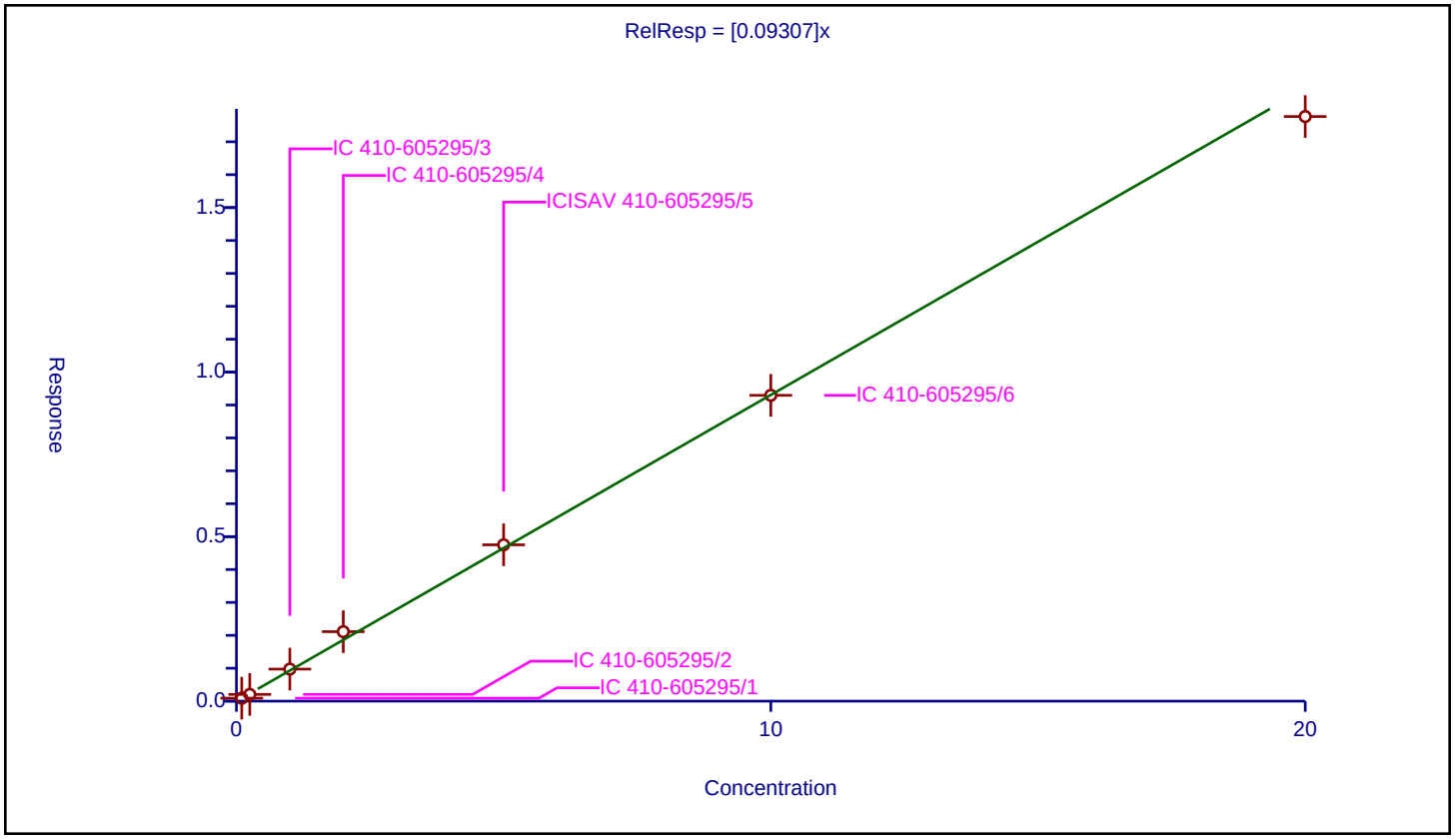
Curve Coefficients

Intercept:	0
Slope:	0.09307

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.1	0.008983	2.0	753852.0	0.089832	Y
2	IC 410-605295/2	0.25	0.020469	2.0	794556.0	0.081877	Y
3	IC 410-605295/3	1.0	0.097398	2.0	787921.0	0.097398	Y
4	IC 410-605295/4	2.0	0.211191	2.0	765099.0	0.105595	Y
5	ICISAV 410-605295/5	5.0	0.475113	2.0	790747.0	0.095023	Y
6	IC 410-605295/6	10.0	0.929453	2.0	763292.0	0.092945	Y
7	IC 410-605295/7	20.0	1.776776	2.0	748272.0	0.088839	Y



Calibration / Perfluoropentanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

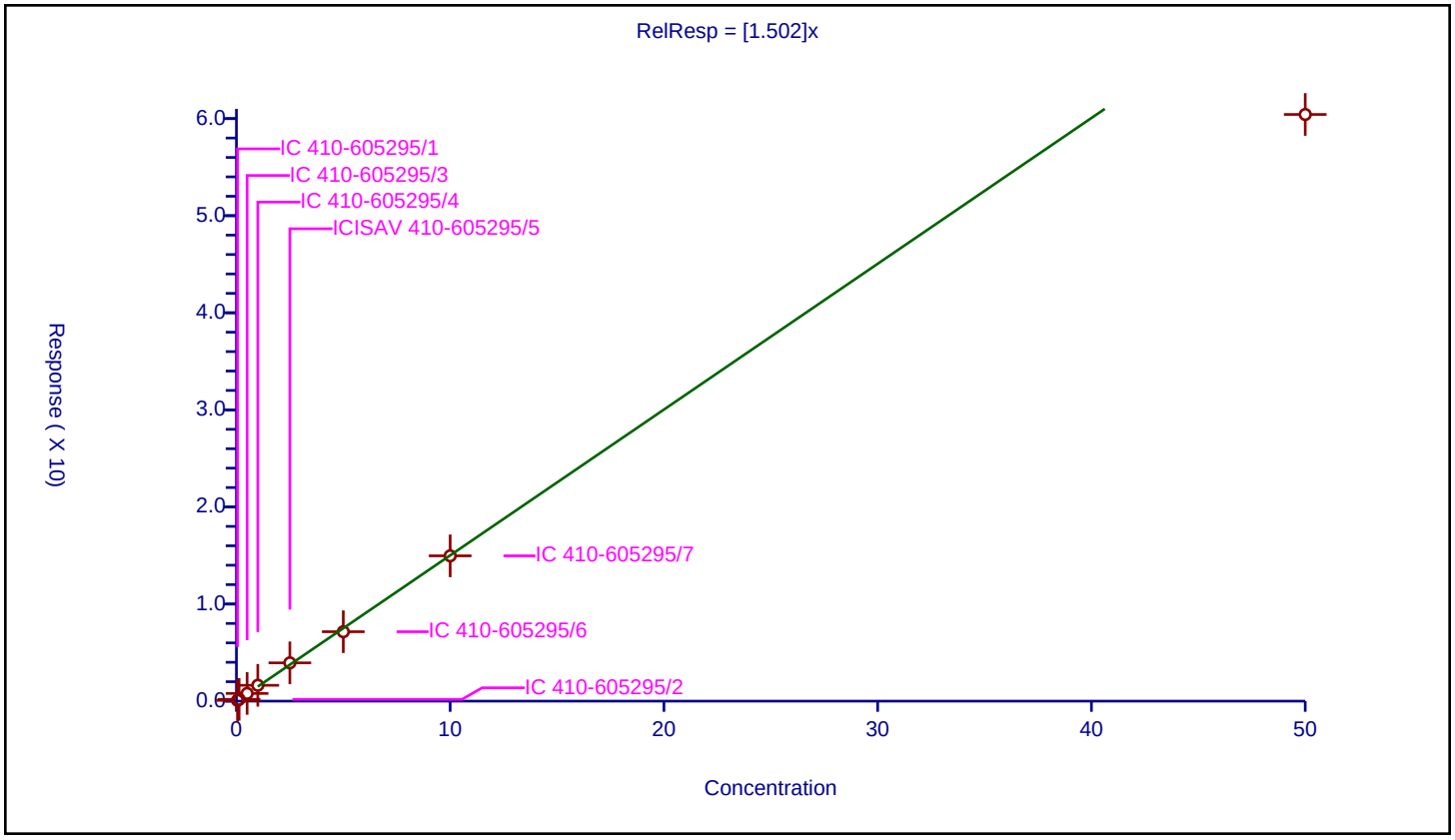
Curve Coefficients

Intercept:	0
Slope:	1.502

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.081273	2.0	753852.0	1.625465	Y
2	IC 410-605295/2	0.125	0.182915	2.0	794556.0	1.463318	Y
3	IC 410-605295/3	0.5	0.790551	2.0	787921.0	1.581103	Y
4	IC 410-605295/4	1.0	1.630095	2.0	765099.0	1.630095	Y
5	ICISAV 410-605295/5	2.5	3.943593	2.0	790747.0	1.577437	Y
6	IC 410-605295/6	5.0	7.149536	2.0	763292.0	1.429907	Y
7	IC 410-605295/7	10.0	14.964986	2.0	748272.0	1.496499	Y
8	IC 410-605295/8	50.0	60.425262	2.0	703600.0	1.208505	Y



Calibration / Perfluoro(4-methoxybutanoic acid)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

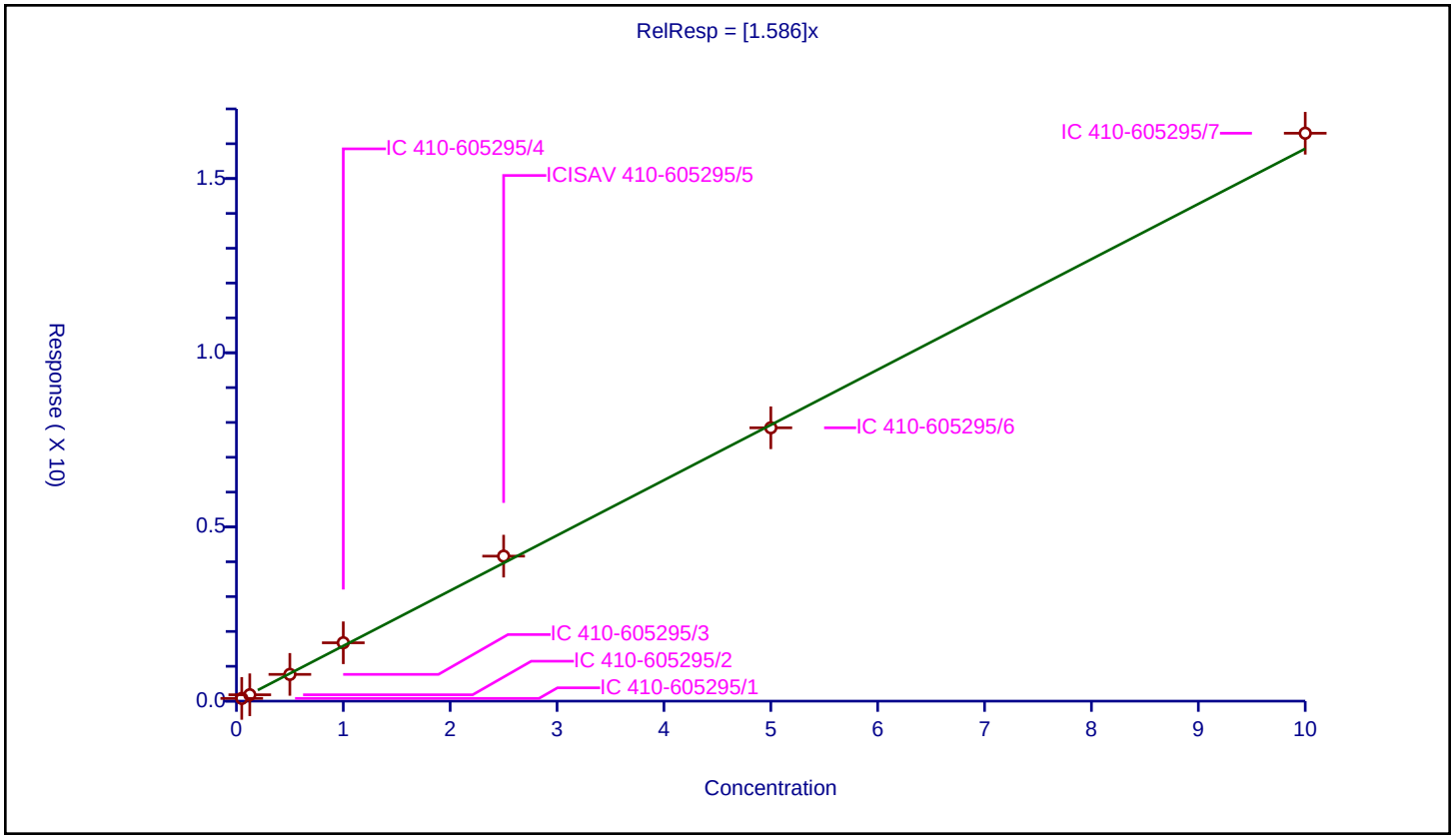
Curve Coefficients

Intercept:	0
Slope:	1.586

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.078124	2.0	753852.0	1.562482	Y
2	IC 410-605295/2	0.125	0.182849	2.0	794556.0	1.462794	Y
3	IC 410-605295/3	0.5	0.767564	2.0	787921.0	1.535129	Y
4	IC 410-605295/4	1.0	1.675255	2.0	765099.0	1.675255	Y
5	ICISAV 410-605295/5	2.5	4.161978	2.0	790747.0	1.664791	Y
6	IC 410-605295/6	5.0	7.846709	2.0	763292.0	1.569342	Y
7	IC 410-605295/7	10.0	16.30146	2.0	748272.0	1.630146	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

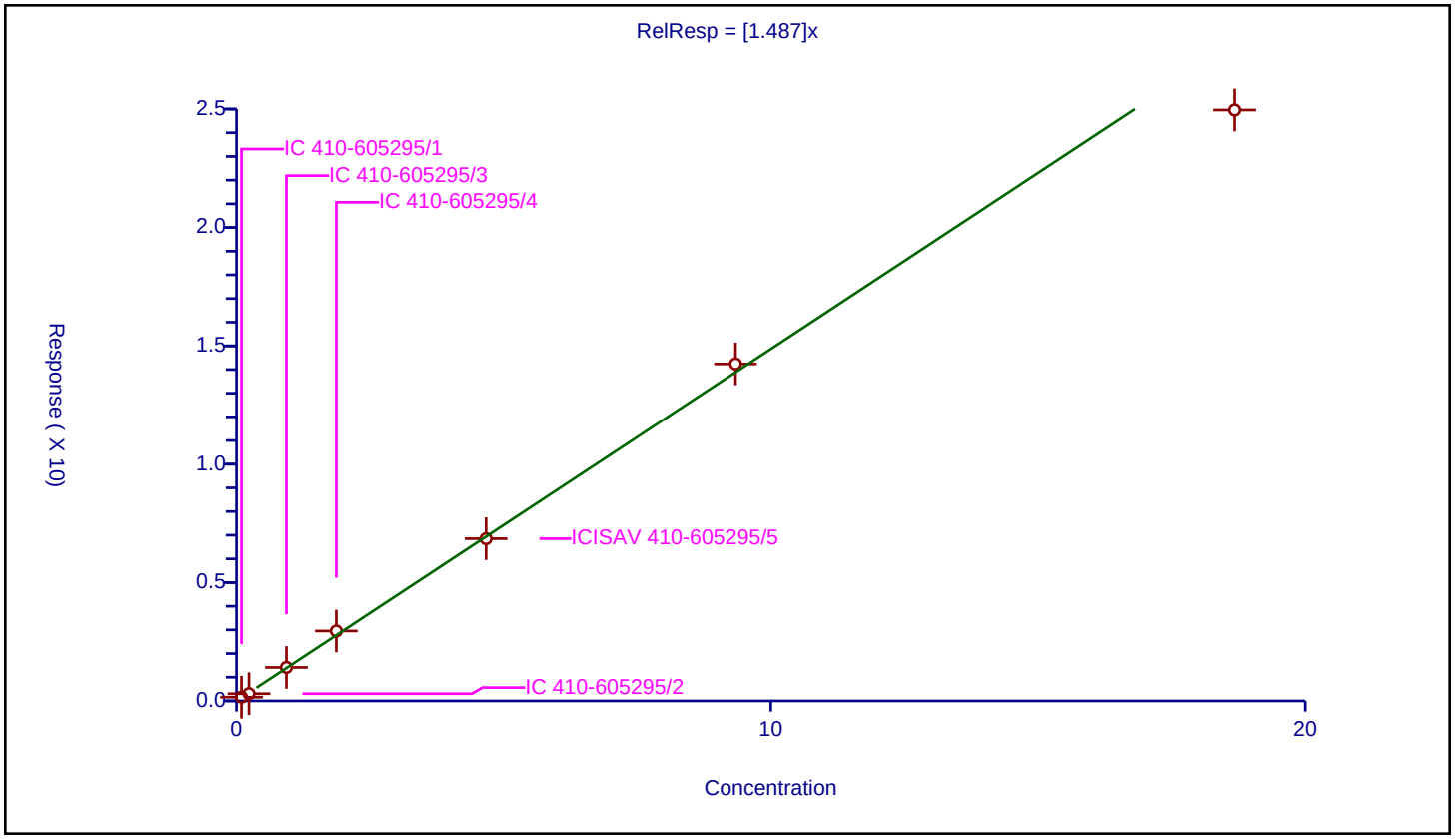
Curve Coefficients

Intercept:	0
Slope:	1.487

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0934	0.156818	4.69	346416.0	1.678994	Y
2	IC 410-605295/2	0.2335	0.304236	4.69	359493.0	1.302939	Y
3	IC 410-605295/3	0.934	1.414102	4.69	397958.0	1.514028	Y
4	IC 410-605295/4	1.868	2.954908	4.69	373023.0	1.581856	Y
5	ICISAV 410-605295/5	4.67	6.854052	4.69	397858.0	1.467677	Y
6	IC 410-605295/6	9.34	14.23653	4.69	377780.0	1.524254	Y
7	IC 410-605295/7	18.68	24.959147	4.69	361589.0	1.336143	Y



Calibration / Perfluoro-3,6-dioxaheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

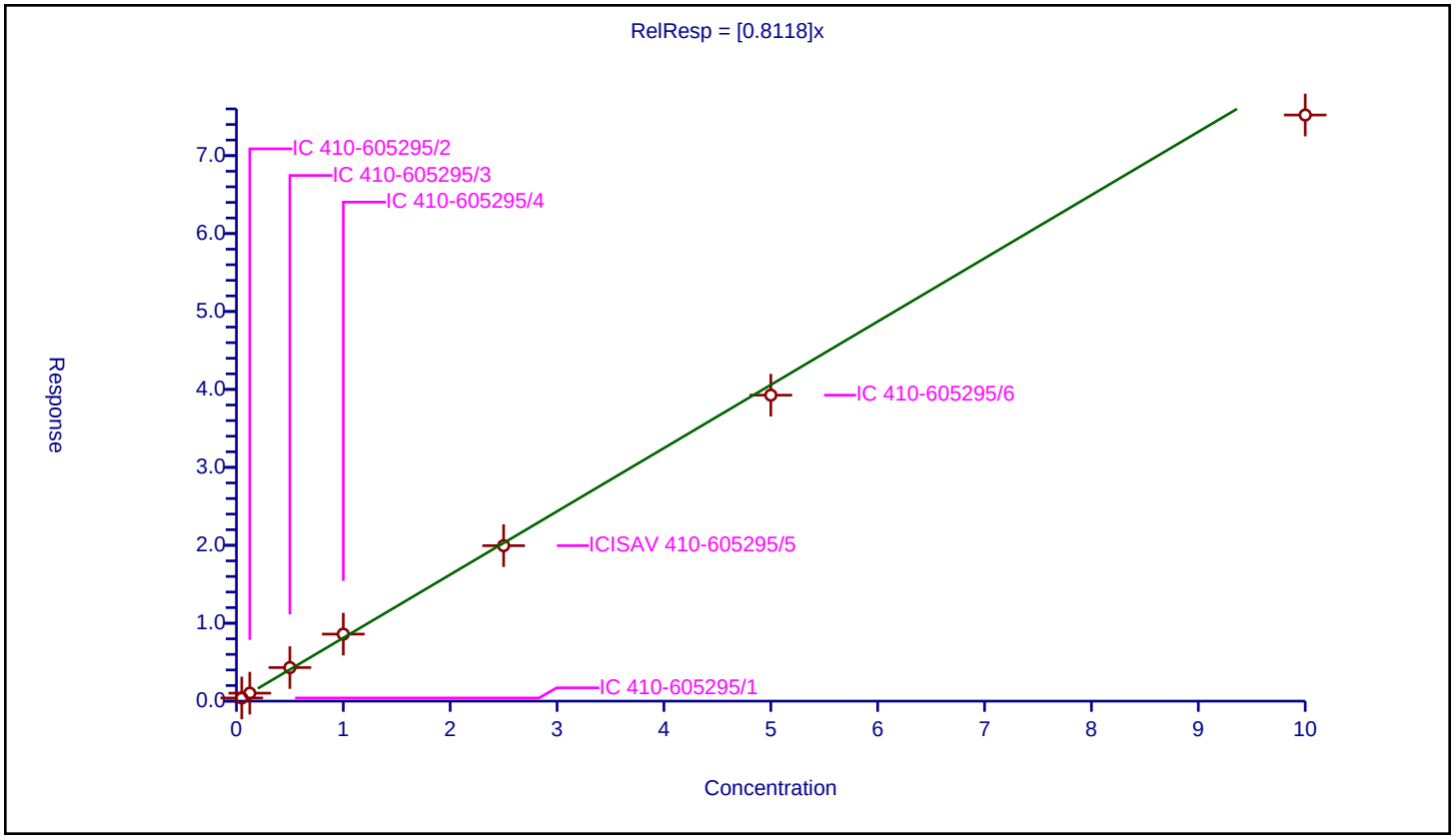
Curve Coefficients

Intercept:	0
Slope:	0.8118

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.04034	2.0	1169313.0	0.806799	Y
2	IC 410-605295/2	0.125	0.102351	2.0	1095871.0	0.818812	Y
3	IC 410-605295/3	0.5	0.430697	2.0	1112029.0	0.861395	Y
4	IC 410-605295/4	1.0	0.860003	2.0	1107745.0	0.860003	Y
5	ICISAV 410-605295/5	2.5	1.995214	2.0	1174732.0	0.798086	Y
6	IC 410-605295/6	5.0	3.926563	2.0	1093917.0	0.785313	Y
7	IC 410-605295/7	10.0	7.521483	2.0	1073696.0	0.752148	Y



Calibration / Perfluorohexanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

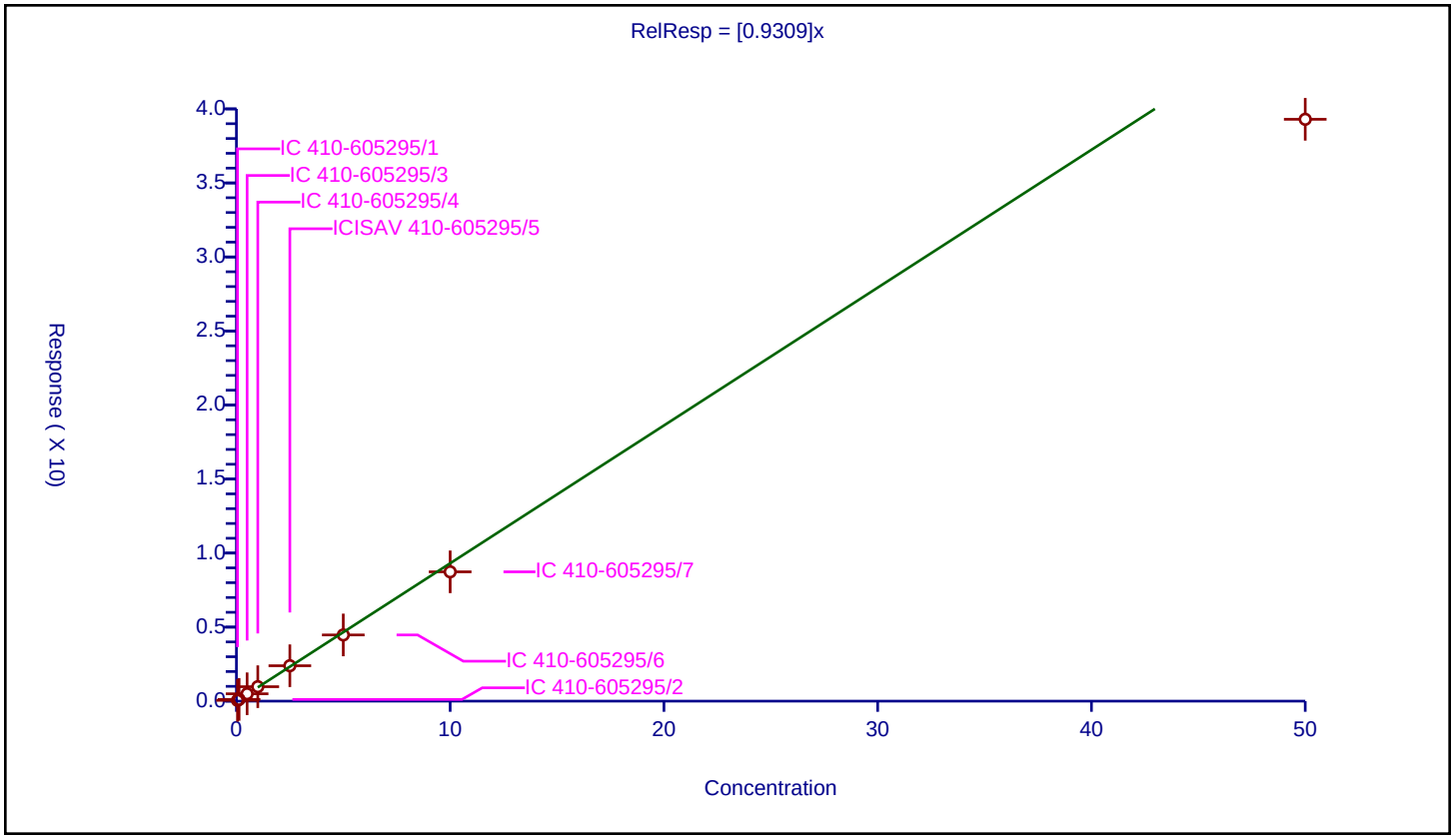
Curve Coefficients

Intercept:	0
Slope:	0.9309

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.052179	2.0	1169313.0	1.043587	Y
2	IC 410-605295/2	0.125	0.115209	2.0	1095871.0	0.921671	Y
3	IC 410-605295/3	0.5	0.497453	2.0	1112029.0	0.994906	Y
4	IC 410-605295/4	1.0	0.976752	2.0	1107745.0	0.976752	Y
5	ICISAV 410-605295/5	2.5	2.392234	2.0	1174732.0	0.956894	Y
6	IC 410-605295/6	5.0	4.471038	2.0	1093917.0	0.894208	Y
7	IC 410-605295/7	10.0	8.733627	2.0	1073696.0	0.873363	Y
8	IC 410-605295/8	50.0	39.29597	2.0	1024973.0	0.785919	Y



Calibration / 5:3 FTCA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

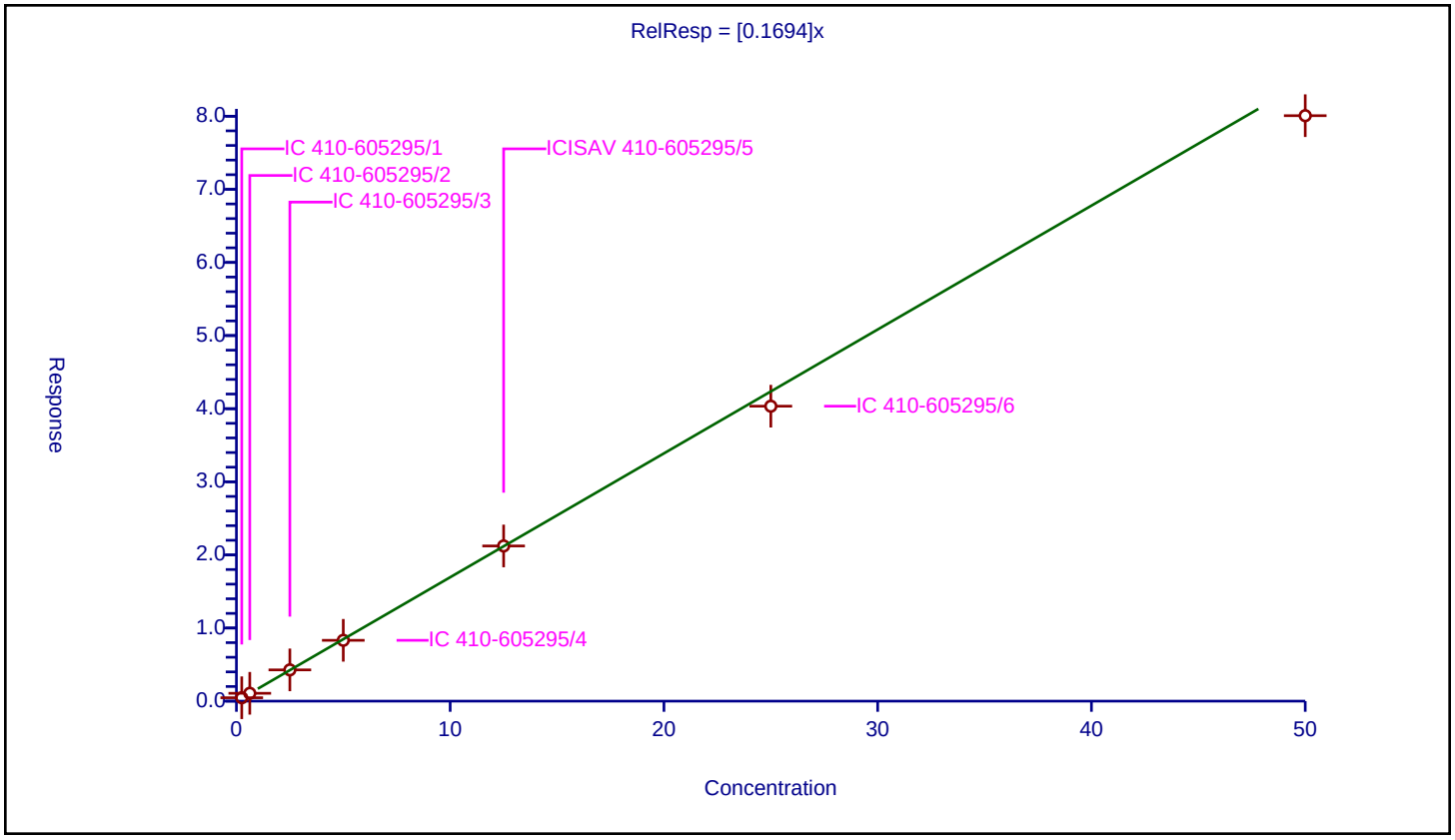
Curve Coefficients

Intercept:	0
Slope:	0.1694

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.25	0.046398	2.0	1169313.0	0.185593	Y
2	IC 410-605295/2	0.625	0.107285	2.0	1095871.0	0.171655	Y
3	IC 410-605295/3	2.5	0.427635	2.0	1112029.0	0.171054	Y
4	IC 410-605295/4	5.0	0.831942	2.0	1107745.0	0.166388	Y
5	ICISAV 410-605295/5	12.5	2.122326	2.0	1174732.0	0.169786	Y
6	IC 410-605295/6	25.0	4.033878	2.0	1093917.0	0.161355	Y
7	IC 410-605295/7	50.0	8.007037	2.0	1073696.0	0.160141	Y



Calibration / FBSA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

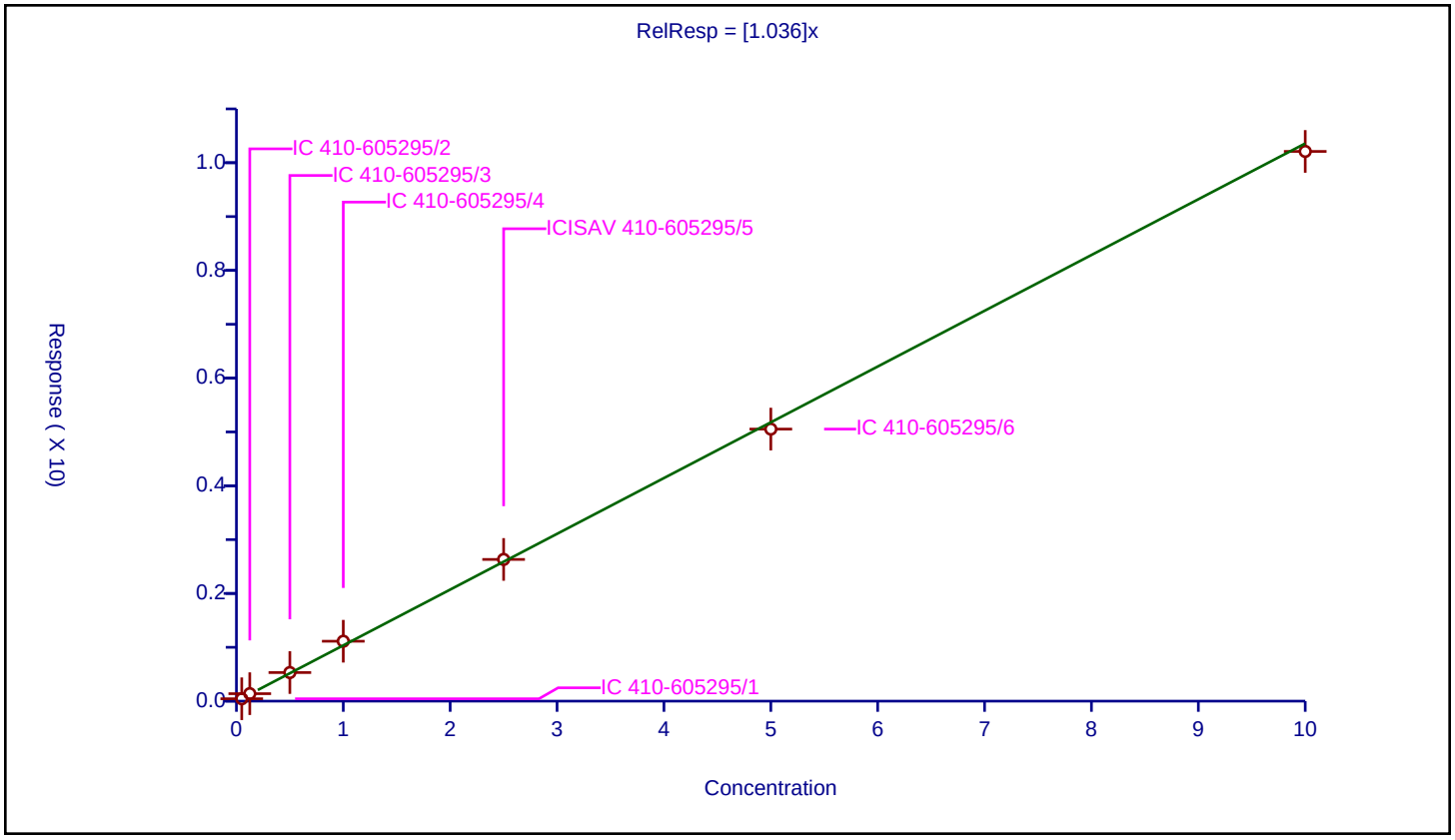
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.044027	1.864	1105390.0	0.880543	Y
2	IC 410-605295/2	0.125	0.13883	1.864	976723.0	1.110641	Y
3	IC 410-605295/3	0.5	0.530988	1.864	998944.0	1.061976	Y
4	IC 410-605295/4	1.0	1.112707	1.864	1039989.0	1.112707	Y
5	ICISAV 410-605295/5	2.5	2.632107	1.864	1075982.0	1.052843	Y
6	IC 410-605295/6	5.0	5.052918	1.864	1063688.0	1.010584	Y
7	IC 410-605295/7	10.0	10.209816	1.864	1020468.0	1.020982	Y



Calibration / Perfluorobutanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

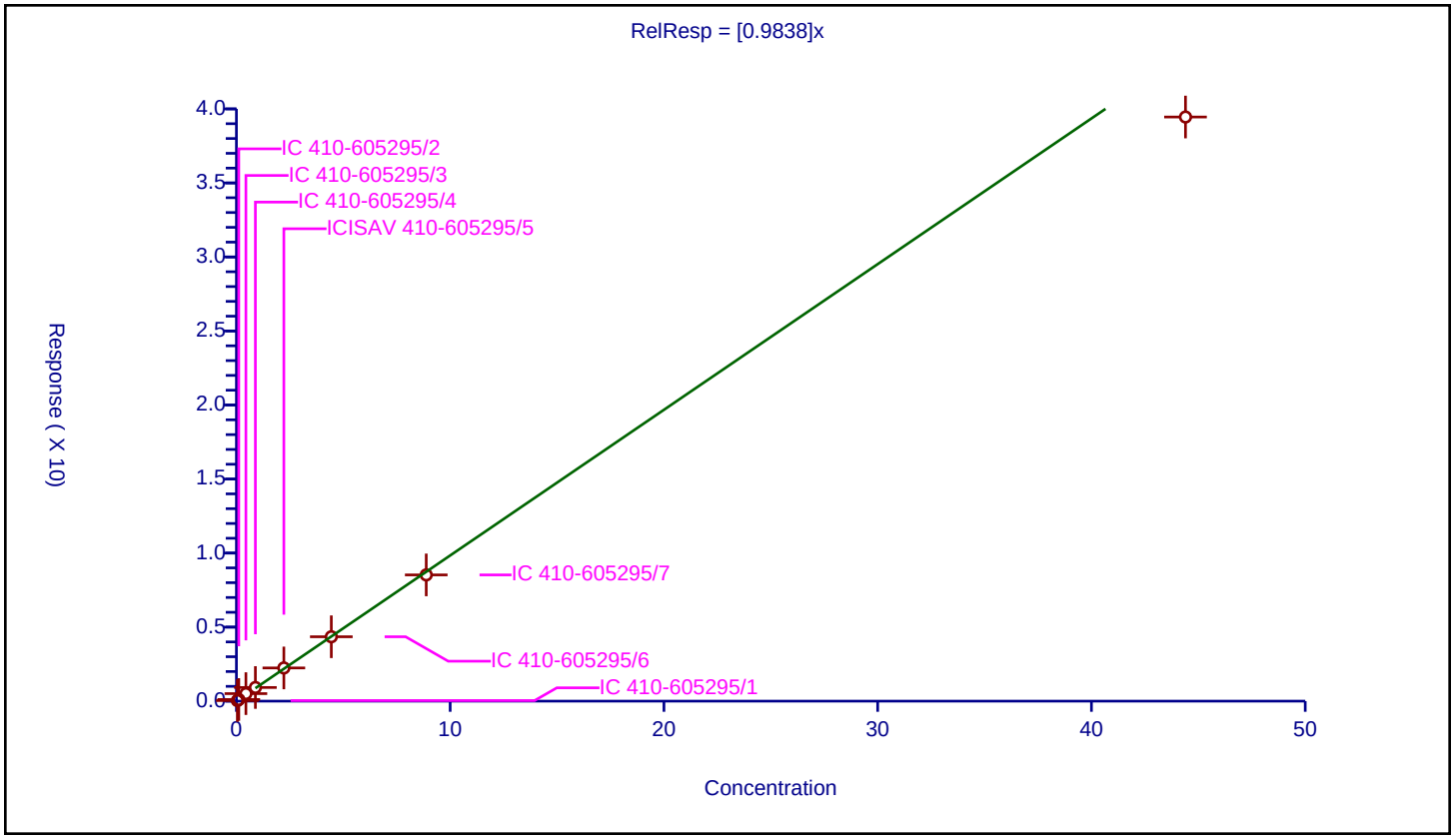
Curve Coefficients

Intercept:	0
Slope:	0.9838

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0444	0.037992	1.864	1105390.0	0.855675	Y
2	IC 410-605295/2	0.111	0.110379	1.864	976723.0	0.994408	Y
3	IC 410-605295/3	0.444	0.507777	1.864	998944.0	1.143642	Y
4	IC 410-605295/4	0.888	0.922722	1.864	1039989.0	1.039101	Y
5	ICISAV 410-605295/5	2.22	2.241522	1.864	1075982.0	1.009694	Y
6	IC 410-605295/6	4.44	4.348601	1.864	1063688.0	0.979415	Y
7	IC 410-605295/7	8.88	8.526229	1.864	1020468.0	0.960161	Y
8	IC 410-605295/8	44.4	39.451339	1.864	954978.0	0.888544	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

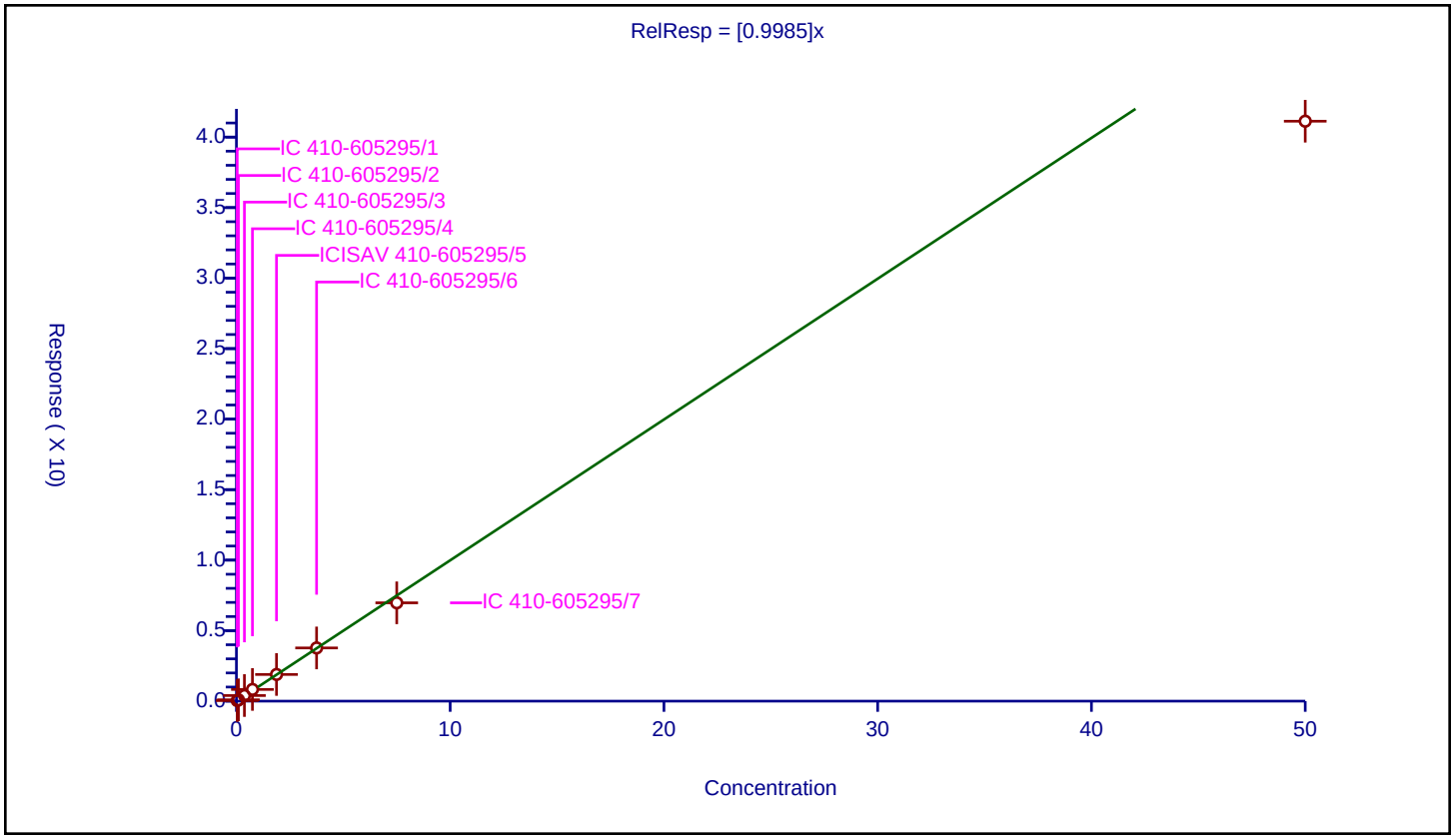
Curve Coefficients

Intercept:	0
Slope:	0.9985

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0375	0.039268	2.0	1344770.0	1.047138	Y
2	IC 410-605295/2	0.09375	0.094448	2.0	1397534.0	1.007443	Y
3	IC 410-605295/3	0.375	0.39739	2.0	1356500.0	1.059708	Y
4	IC 410-605295/4	0.75	0.830204	2.0	1319062.0	1.106938	Y
5	ICISAV 410-605295/5	1.875	1.89087	2.0	1491647.0	1.008464	Y
6	IC 410-605295/6	3.75	3.773082	2.0	1310467.0	1.006155	Y
7	IC 410-605295/7	7.5	6.972869	2.0	1368311.0	0.929716	Y
8	IC 410-605295/8	50.0	41.128135	2.0	1341095.0	0.822563	Y



Calibration / Perfluoro (2-ethoxyethane) sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

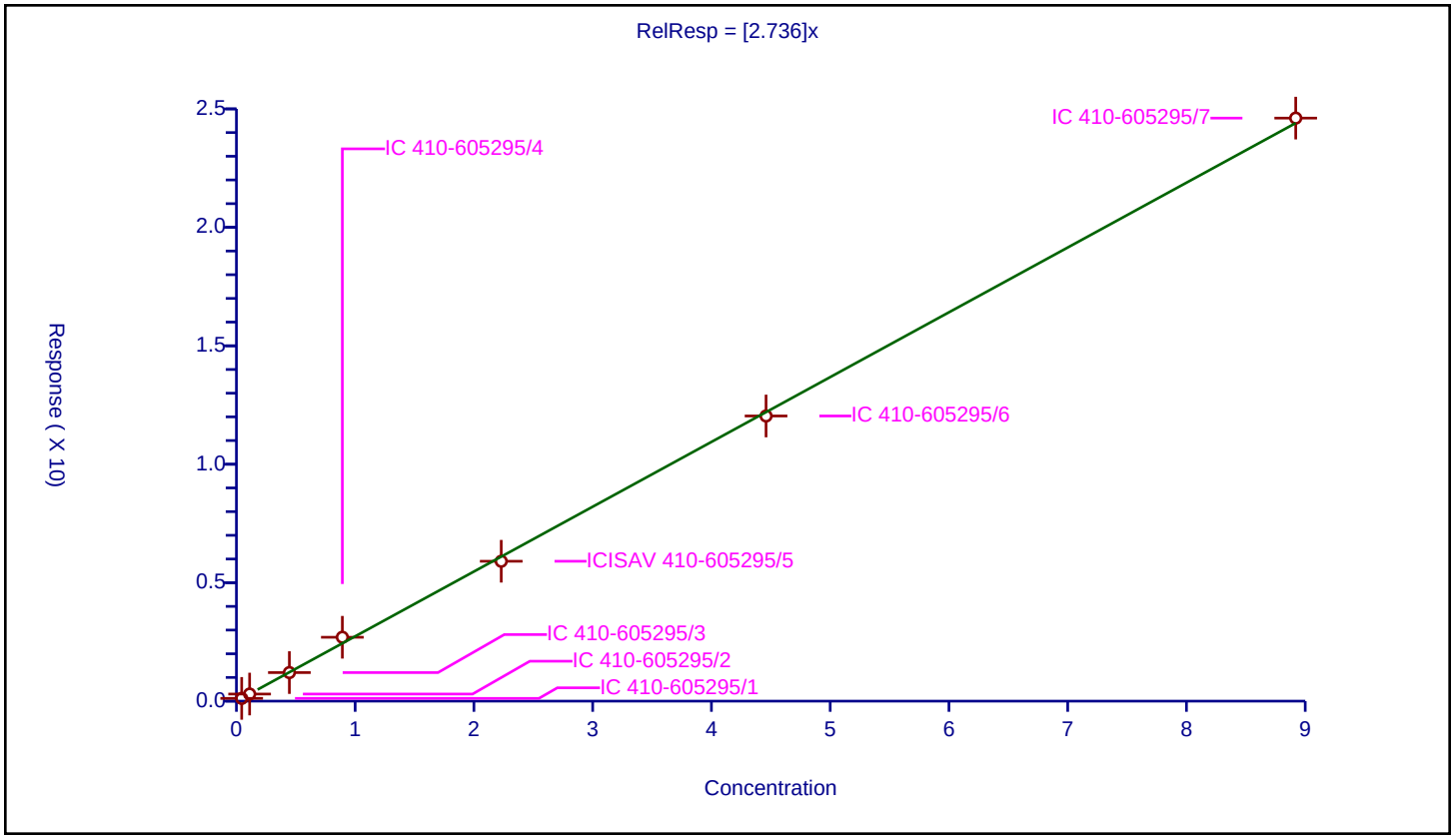
Curve Coefficients

Intercept:	0
Slope:	2.736

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0445	0.116795	2.0	1169313.0	2.624608	Y
2	IC 410-605295/2	0.11125	0.299533	2.0	1095871.0	2.692435	Y
3	IC 410-605295/3	0.446	1.205316	2.0	1112029.0	2.702502	Y
4	IC 410-605295/4	0.892	2.696682	2.0	1107745.0	3.023186	Y
5	ICISAV 410-605295/5	2.23	5.905013	2.0	1174732.0	2.647988	Y
6	IC 410-605295/6	4.46	12.03678	2.0	1093917.0	2.69883	Y
7	IC 410-605295/7	8.92	24.610521	2.0	1073696.0	2.759027	Y



Calibration / Perfluoroheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

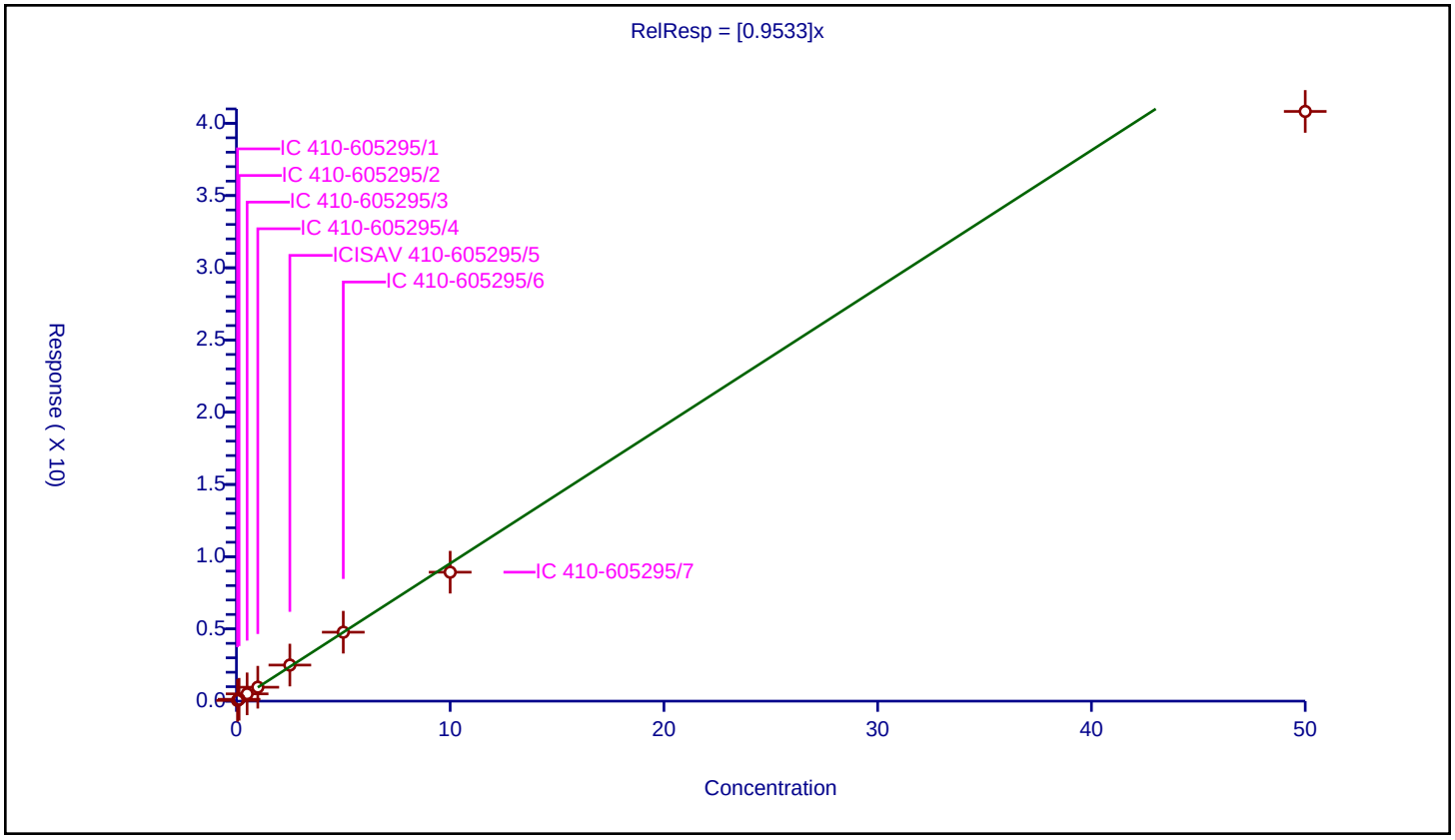
Curve Coefficients

Intercept:	0
Slope:	0.9533

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.047971	2.0	1170700.0	0.959426	Y
2	IC 410-605295/2	0.125	0.128931	2.0	1110329.0	1.031449	Y
3	IC 410-605295/3	0.5	0.505086	2.0	1123852.0	1.010172	Y
4	IC 410-605295/4	1.0	0.962862	2.0	1136030.0	0.962862	Y
5	ICISAV 410-605295/5	2.5	2.496823	2.0	1142367.0	0.998729	Y
6	IC 410-605295/6	5.0	4.771949	2.0	1119747.0	0.95439	Y
7	IC 410-605295/7	10.0	8.927164	2.0	1163855.0	0.892716	Y
8	IC 410-605295/8	50.0	40.825094	2.0	1007097.0	0.816502	Y



Calibration / DONA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

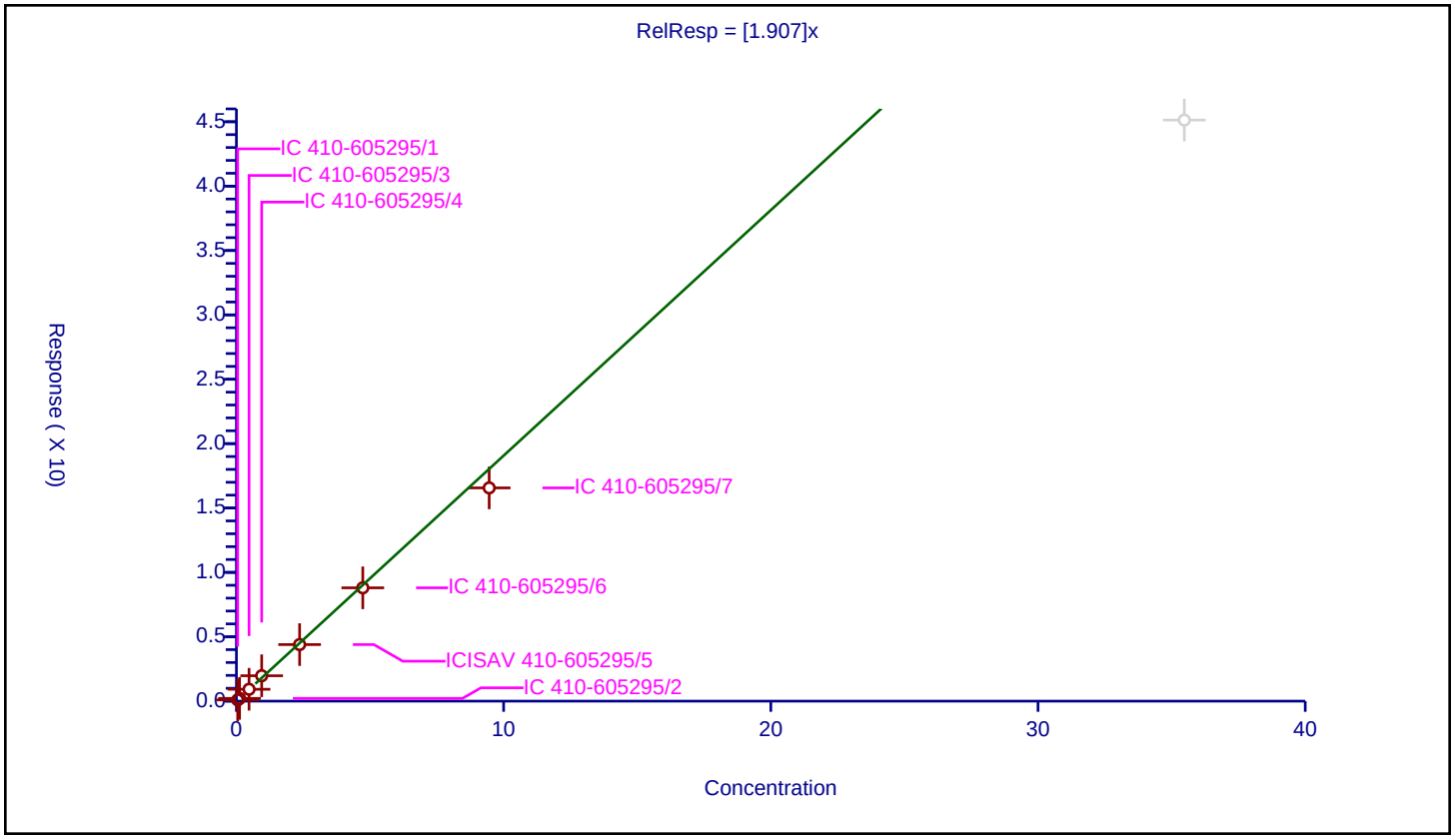
Curve Coefficients

Intercept:	0
Slope:	1.907

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0473	0.096256	2.0	1344770.0	2.035008	Y
2	IC 410-605295/2	0.11825	0.213921	2.0	1397534.0	1.809058	Y
3	IC 410-605295/3	0.473	0.921961	2.0	1356500.0	1.949177	Y
4	IC 410-605295/4	0.946	1.973304	2.0	1319062.0	2.085945	Y
5	ICISAV 410-605295/5	2.365	4.392117	2.0	1491647.0	1.857132	Y
6	IC 410-605295/6	4.73	8.801423	2.0	1310467.0	1.860766	Y
7	IC 410-605295/7	9.46	16.562805	2.0	1368311.0	1.750825	Y
8	IC 410-605295/8	35.475	45.130214	2.0	1341095.0	1.27217	N



Calibration / Perfluoropentanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

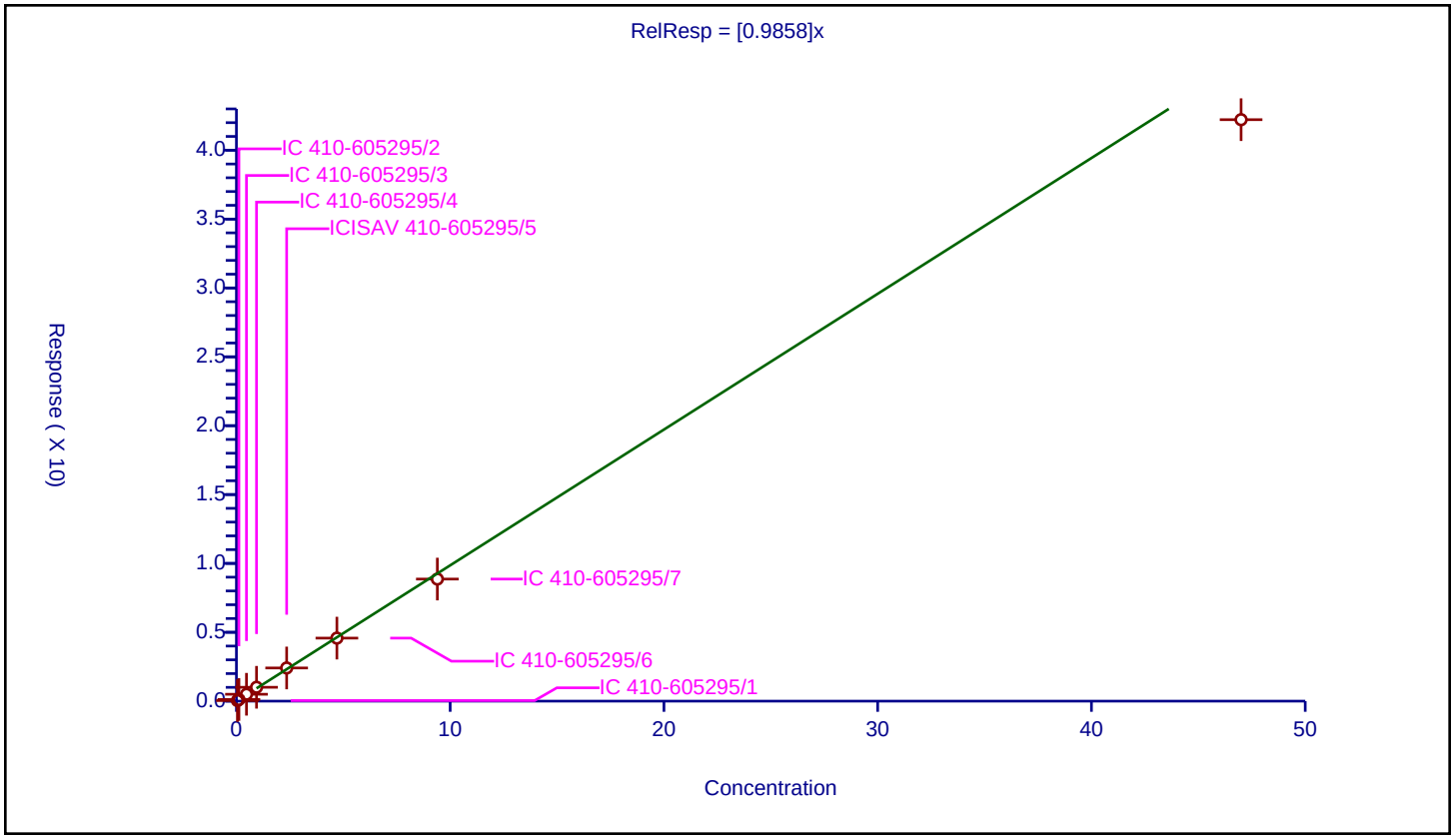
Curve Coefficients

Intercept:	0
Slope:	0.9858

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.047	0.042061	1.896	978039.0	0.89492	Y
2	IC 410-605295/2	0.1175	0.119382	1.896	980334.0	1.016018	Y
3	IC 410-605295/3	0.47	0.500582	1.896	1041236.0	1.065067	Y
4	IC 410-605295/4	0.94	1.006174	1.896	961270.0	1.070398	Y
5	ICISAV 410-605295/5	2.35	2.409089	1.896	1019654.0	1.025144	Y
6	IC 410-605295/6	4.7	4.576904	1.896	991254.0	0.973809	Y
7	IC 410-605295/7	9.4	8.864051	1.896	976899.0	0.942984	Y
8	IC 410-605295/8	47.0	42.217175	1.896	888421.0	0.898238	Y



Calibration / 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

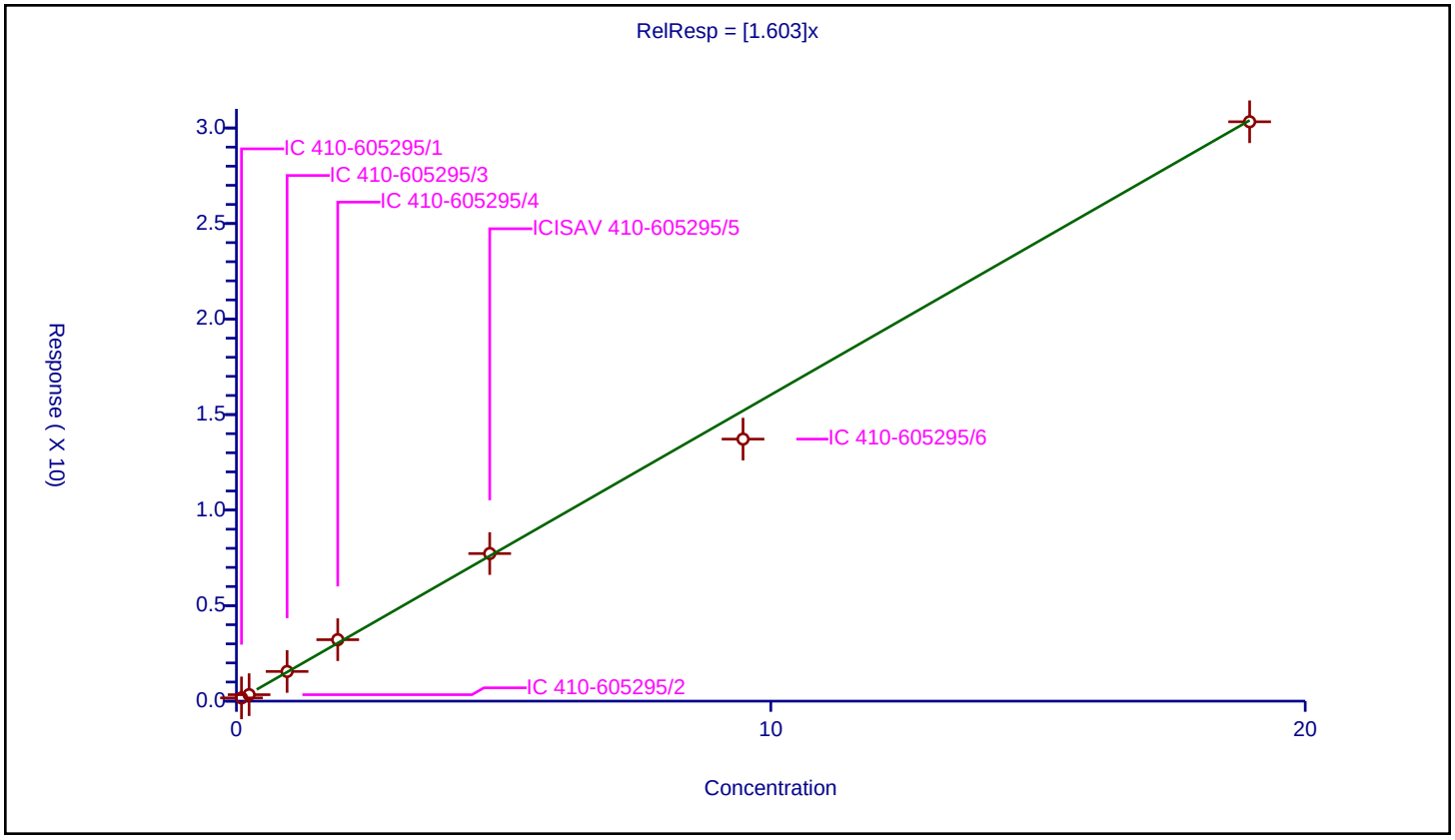
Curve Coefficients

Intercept:	0
Slope:	1.603

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0948	0.169154	4.76	387544.0	1.784328	Y
2	IC 410-605295/2	0.237	0.338265	4.76	451592.0	1.42728	Y
3	IC 410-605295/3	0.948	1.553615	4.76	405840.0	1.638834	Y
4	IC 410-605295/4	1.896	3.217235	4.76	390651.0	1.696854	Y
5	ICISAV 410-605295/5	4.74	7.725167	4.76	394971.0	1.629782	Y
6	IC 410-605295/6	9.48	13.715643	4.76	411513.0	1.446798	Y
7	IC 410-605295/7	18.96	30.326575	4.76	358638.0	1.599503	Y



Calibration / bis(trifluoromethane)sulfonimide

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

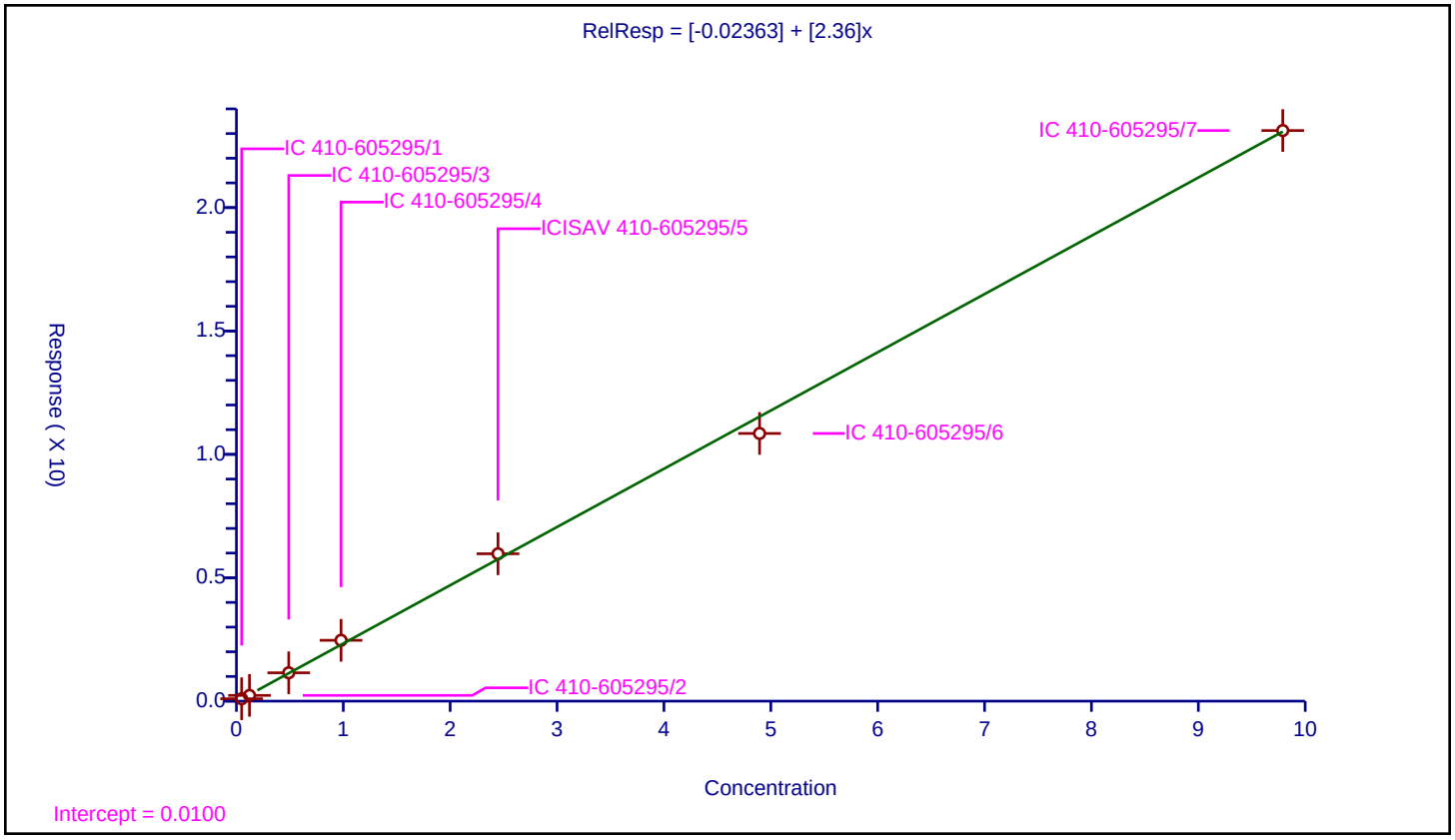
Curve Coefficients

Intercept:	-0.02363
Slope:	2.36

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.04895	0.096463	1.896	978039.0	1.970652	Y
2	IC 410-605295/2	0.122375	0.232568	1.896	980334.0	1.900451	Y
3	IC 410-605295/3	0.4895	1.148634	1.896	1041236.0	2.346545	Y
4	IC 410-605295/4	0.979	2.466139	1.896	961270.0	2.519039	Y
5	ICISAV 410-605295/5	2.4475	5.972054	1.896	1019654.0	2.440063	Y
6	IC 410-605295/6	4.895	10.84763	1.896	991254.0	2.216063	Y
7	IC 410-605295/7	9.79	23.122358	1.896	976899.0	2.361834	Y



Calibration / Perfluorooctanoic acid

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

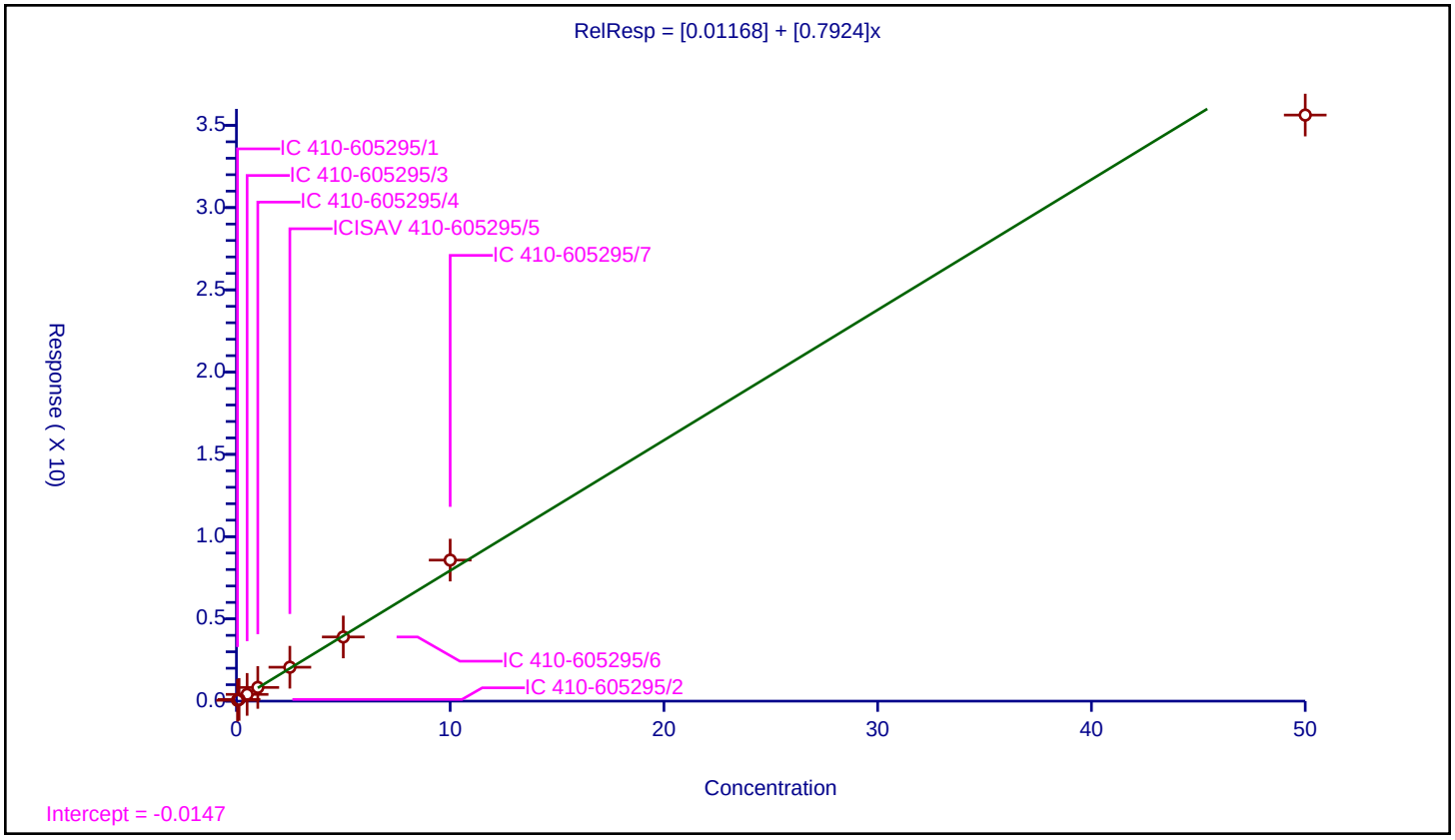
Curve Coefficients

Intercept:	0.01168
Slope:	0.7924

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.052138	2.0	1508577.0	1.042758	Y
2	IC 410-605295/2	0.125	0.104662	2.0	1535097.0	0.837294	Y
3	IC 410-605295/3	0.5	0.410637	2.0	1604347.0	0.821274	Y
4	IC 410-605295/4	1.0	0.833556	2.0	1584147.0	0.833556	Y
5	ICISAV 410-605295/5	2.5	2.060983	2.0	1597362.0	0.824393	Y
6	IC 410-605295/6	5.0	3.901554	2.0	1582438.0	0.780311	Y
7	IC 410-605295/7	10.0	8.572899	2.0	1481850.0	0.85729	Y
8	IC 410-605295/8	50.0	35.626588	2.0	1470617.0	0.712532	Y



Calibration / 7:3 FTCA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

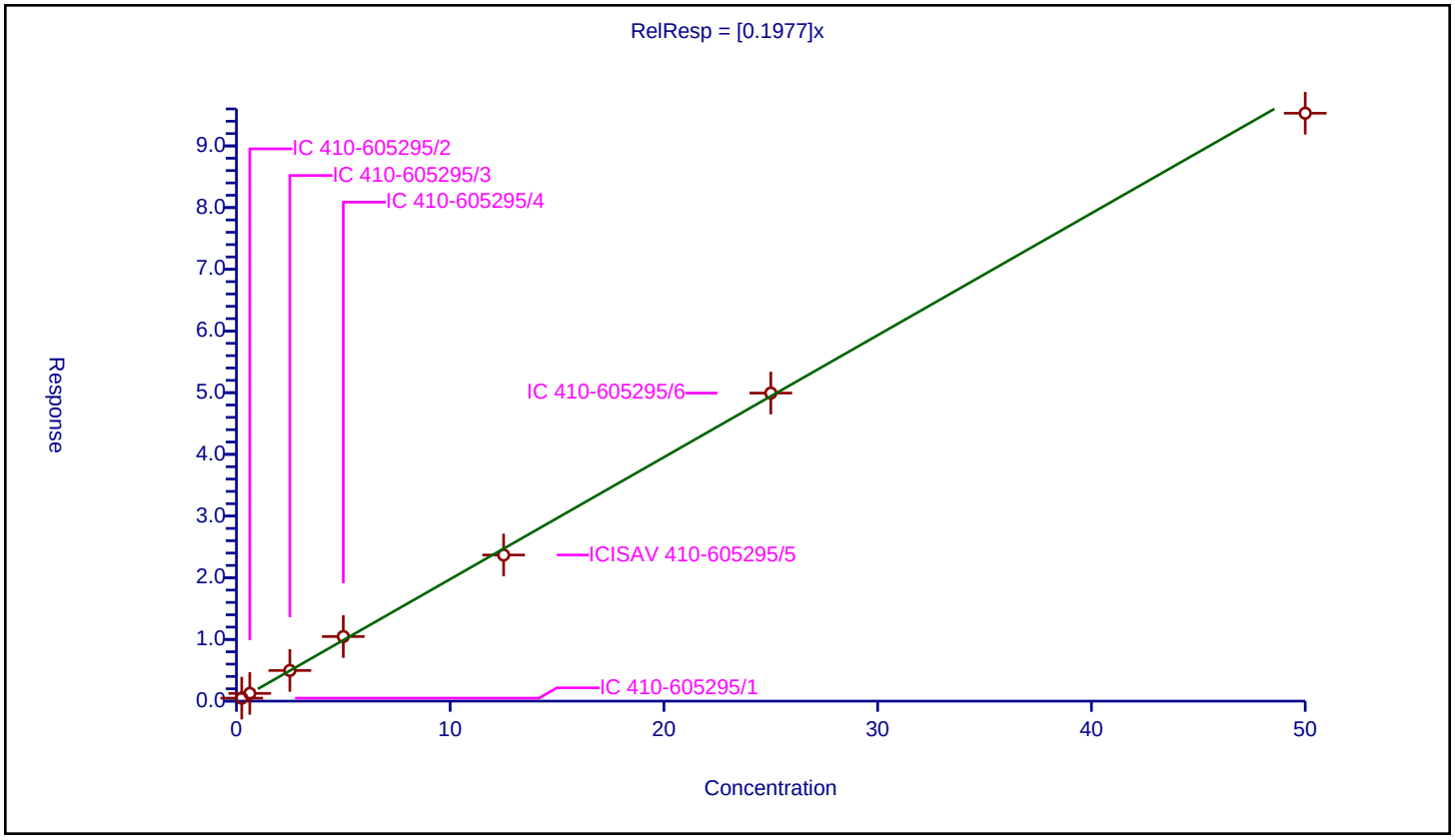
Curve Coefficients

Intercept:	0
Slope:	0.1977

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.25	0.048757	2.0	1169313.0	0.195027	Y
2	IC 410-605295/2	0.625	0.125456	2.0	1095871.0	0.20073	Y
3	IC 410-605295/3	2.5	0.497278	2.0	1112029.0	0.198911	Y
4	IC 410-605295/4	5.0	1.047234	2.0	1107745.0	0.209447	Y
5	ICISAV 410-605295/5	12.5	2.368469	2.0	1174732.0	0.189477	Y
6	IC 410-605295/6	25.0	4.993609	2.0	1093917.0	0.199744	Y
7	IC 410-605295/7	50.0	9.530171	2.0	1073696.0	0.190603	Y



Calibration / Perfluorohexanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

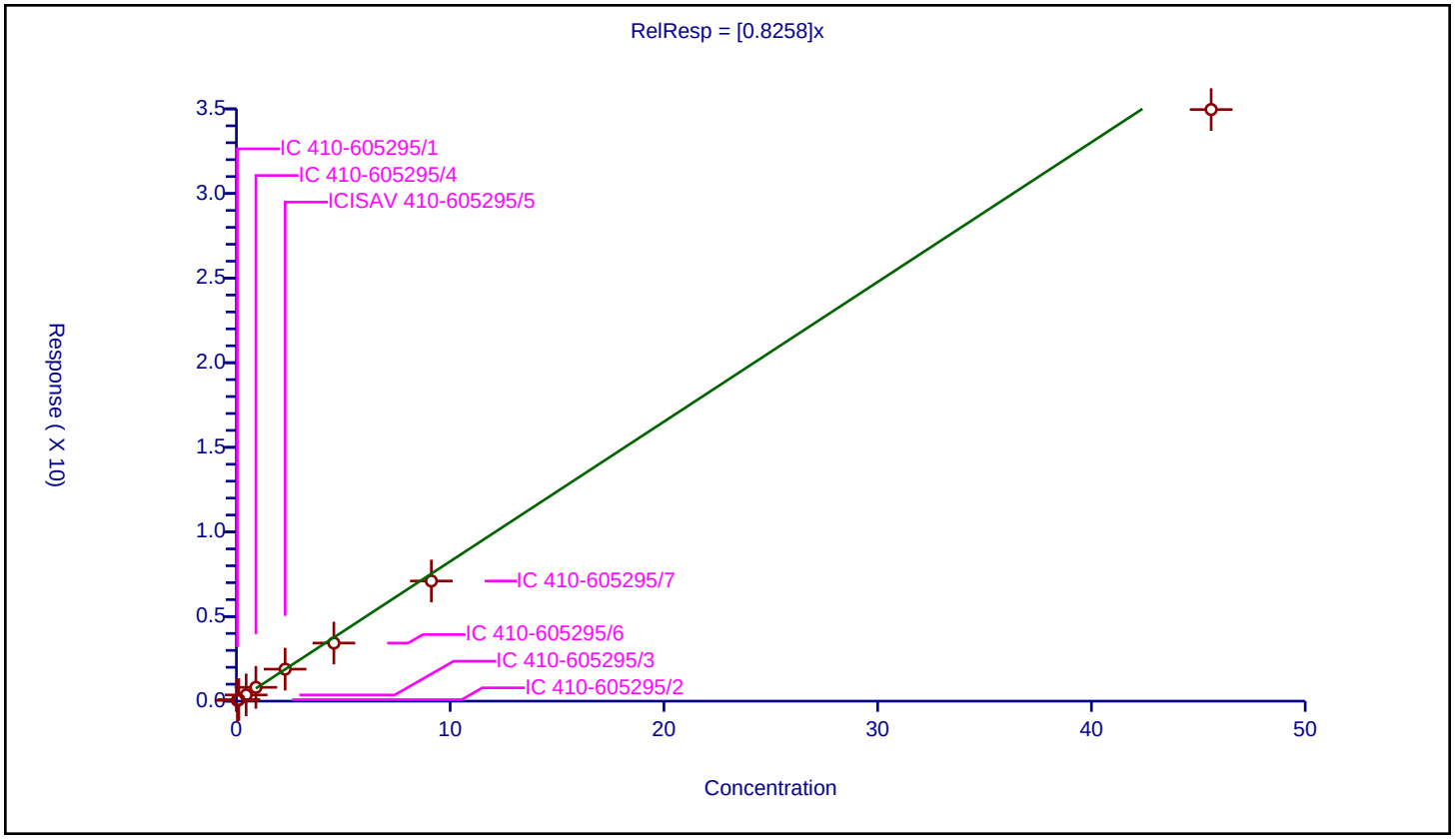
Curve Coefficients

Intercept:	0
Slope:	0.8258

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0456	0.045091	1.896	978039.0	0.988842	Y
2	IC 410-605295/2	0.114	0.090259	1.896	980334.0	0.79175	Y
3	IC 410-605295/3	0.456	0.366814	1.896	1041236.0	0.804416	Y
4	IC 410-605295/4	0.912	0.815037	1.896	961270.0	0.893681	Y
5	ICISAV 410-605295/5	2.28	1.890609	1.896	1019654.0	0.829215	Y
6	IC 410-605295/6	4.56	3.434262	1.896	991254.0	0.753128	Y
7	IC 410-605295/7	9.12	7.100014	1.896	976899.0	0.77851	Y
8	IC 410-605295/8	45.6	34.960867	1.896	888421.0	0.766686	Y



Calibration / Perfluorononanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

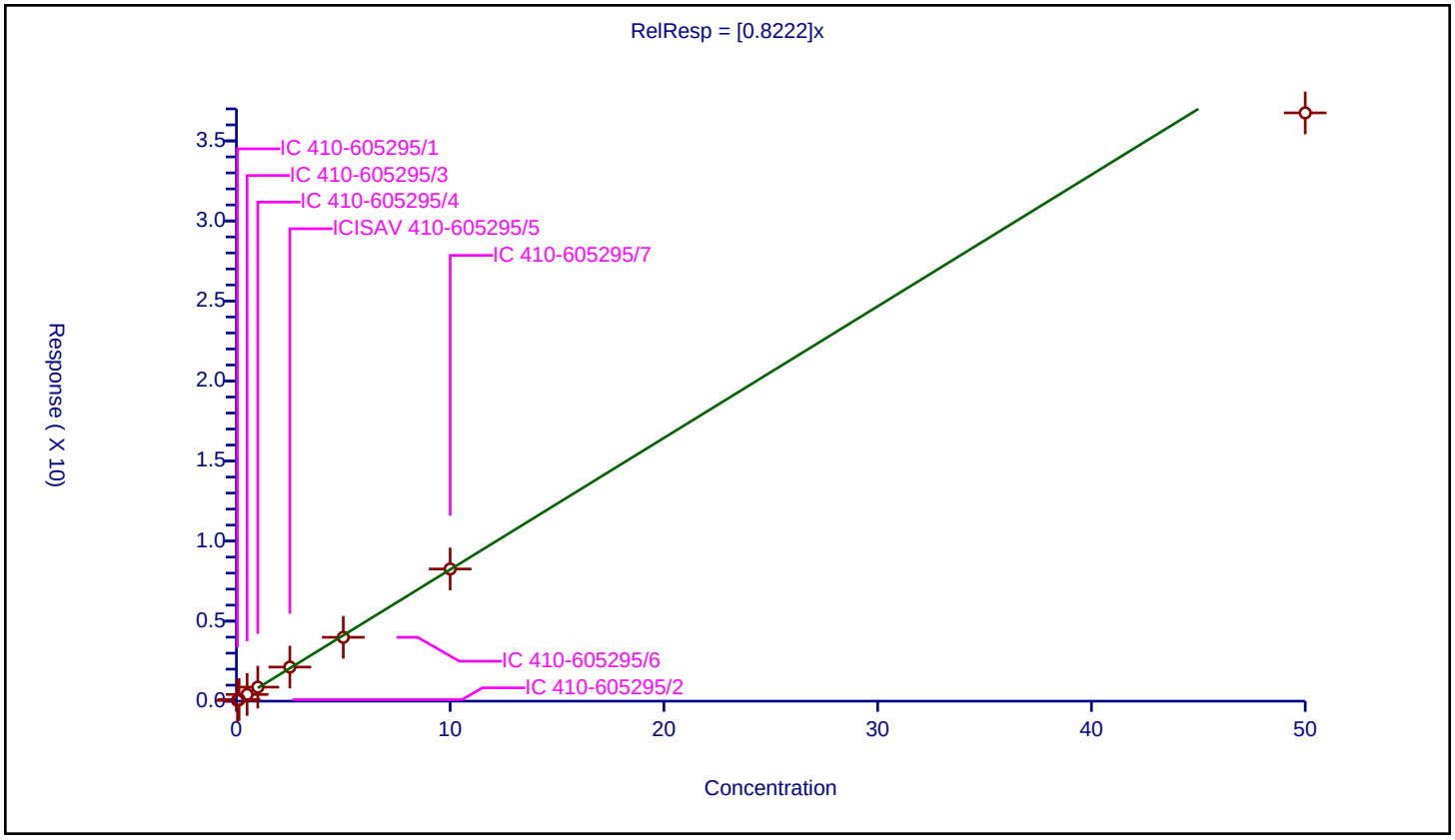
Curve Coefficients

Intercept:	0
Slope:	0.8222

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.043484	2.0	1362327.0	0.869688	Y
2	IC 410-605295/2	0.125	0.098085	2.0	1432377.0	0.784676	Y
3	IC 410-605295/3	0.5	0.418567	2.0	1342912.0	0.837133	Y
4	IC 410-605295/4	1.0	0.875541	2.0	1301890.0	0.875541	Y
5	ICISAV 410-605295/5	2.5	2.129971	2.0	1403188.0	0.851988	Y
6	IC 410-605295/6	5.0	3.989039	2.0	1342737.0	0.797808	Y
7	IC 410-605295/7	10.0	8.256547	2.0	1239931.0	0.825655	Y
8	IC 410-605295/8	50.0	36.750011	2.0	1234460.0	0.735	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

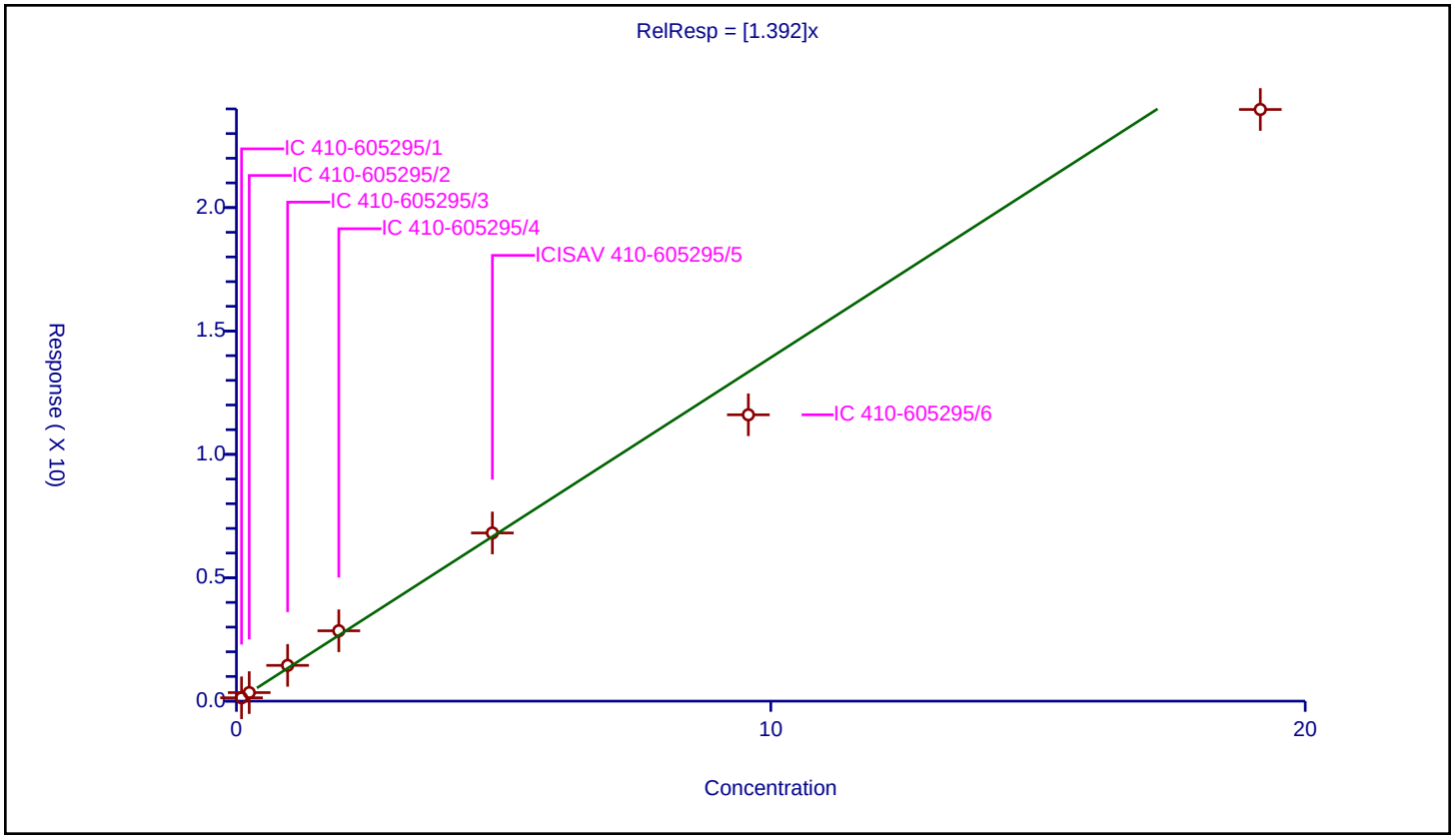
Curve Coefficients

Intercept:	0
Slope:	1.392

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0958	0.13564	4.8	343721.0	1.415869	Y
2	IC 410-605295/2	0.2395	0.346202	4.8	348920.0	1.44552	Y
3	IC 410-605295/3	0.958	1.448584	4.8	327829.0	1.512092	Y
4	IC 410-605295/4	1.916	2.850679	4.8	337459.0	1.487828	Y
5	ICISAV 410-605295/5	4.79	6.815272	4.8	369924.0	1.422813	Y
6	IC 410-605295/6	9.58	11.60431	4.8	355205.0	1.211306	Y
7	IC 410-605295/7	19.16	23.975932	4.8	324476.0	1.251353	Y



Calibration / PFECHS

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

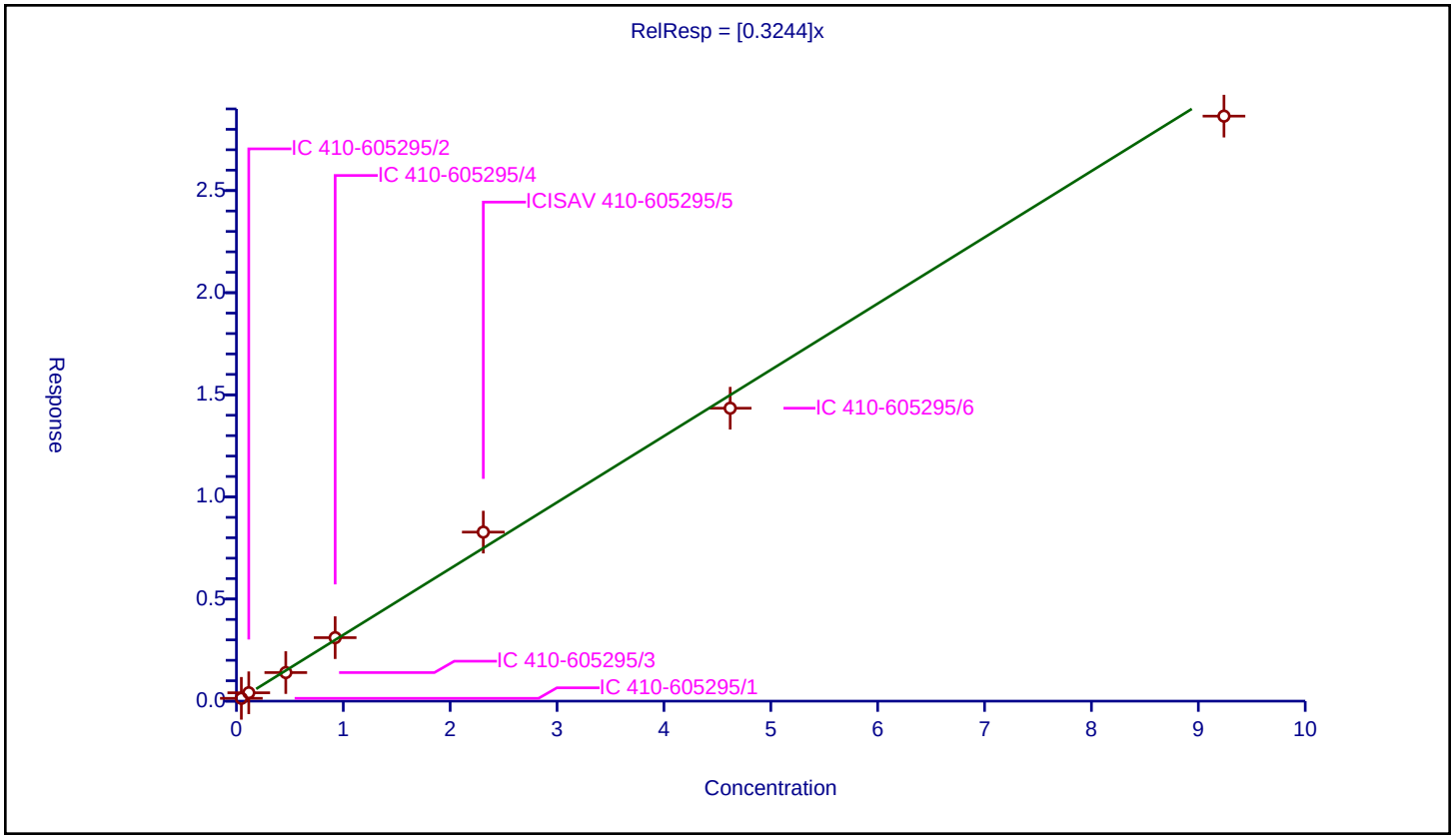
Curve Coefficients

Intercept:	0
Slope:	0.3244

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0462	0.013748	1.896	978039.0	0.297584	Y
2	IC 410-605295/2	0.1155	0.041048	1.896	980334.0	0.355394	Y
3	IC 410-605295/3	0.462	0.139873	1.896	1041236.0	0.302756	Y
4	IC 410-605295/4	0.924	0.310839	1.896	961270.0	0.336406	Y
5	ICISAV 410-605295/5	2.31	0.82773	1.896	1019654.0	0.358325	Y
6	IC 410-605295/6	4.62	1.434351	1.896	991254.0	0.310466	Y
7	IC 410-605295/7	9.24	2.864638	1.896	976899.0	0.310026	Y



Calibration / Perfluoroheptanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

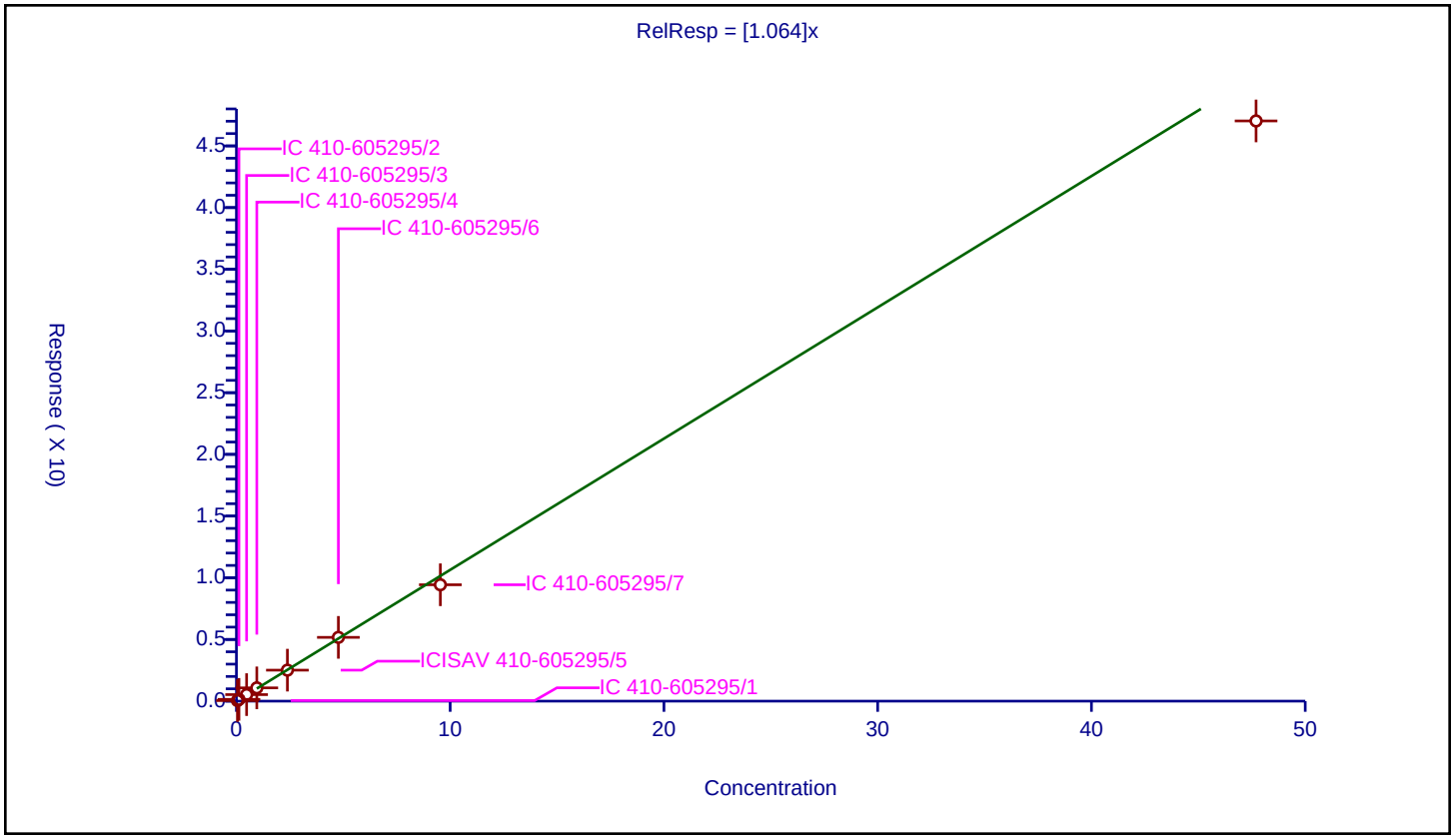
Curve Coefficients

Intercept:	0
Slope:	1.064

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0477	0.045856	1.912	970717.0	0.961343	Y
2	IC 410-605295/2	0.11925	0.142846	1.912	892833.0	1.197874	Y
3	IC 410-605295/3	0.477	0.53025	1.912	929057.0	1.111635	Y
4	IC 410-605295/4	0.954	1.076957	1.912	839137.0	1.128886	Y
5	ICISAV 410-605295/5	2.385	2.51128	1.912	962655.0	1.052948	Y
6	IC 410-605295/6	4.77	5.167904	1.912	860511.0	1.083418	Y
7	IC 410-605295/7	9.54	9.432942	1.912	903782.0	0.988778	Y
8	IC 410-605295/8	47.7	47.023477	1.912	806151.0	0.985817	Y



Calibration / FHxSA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

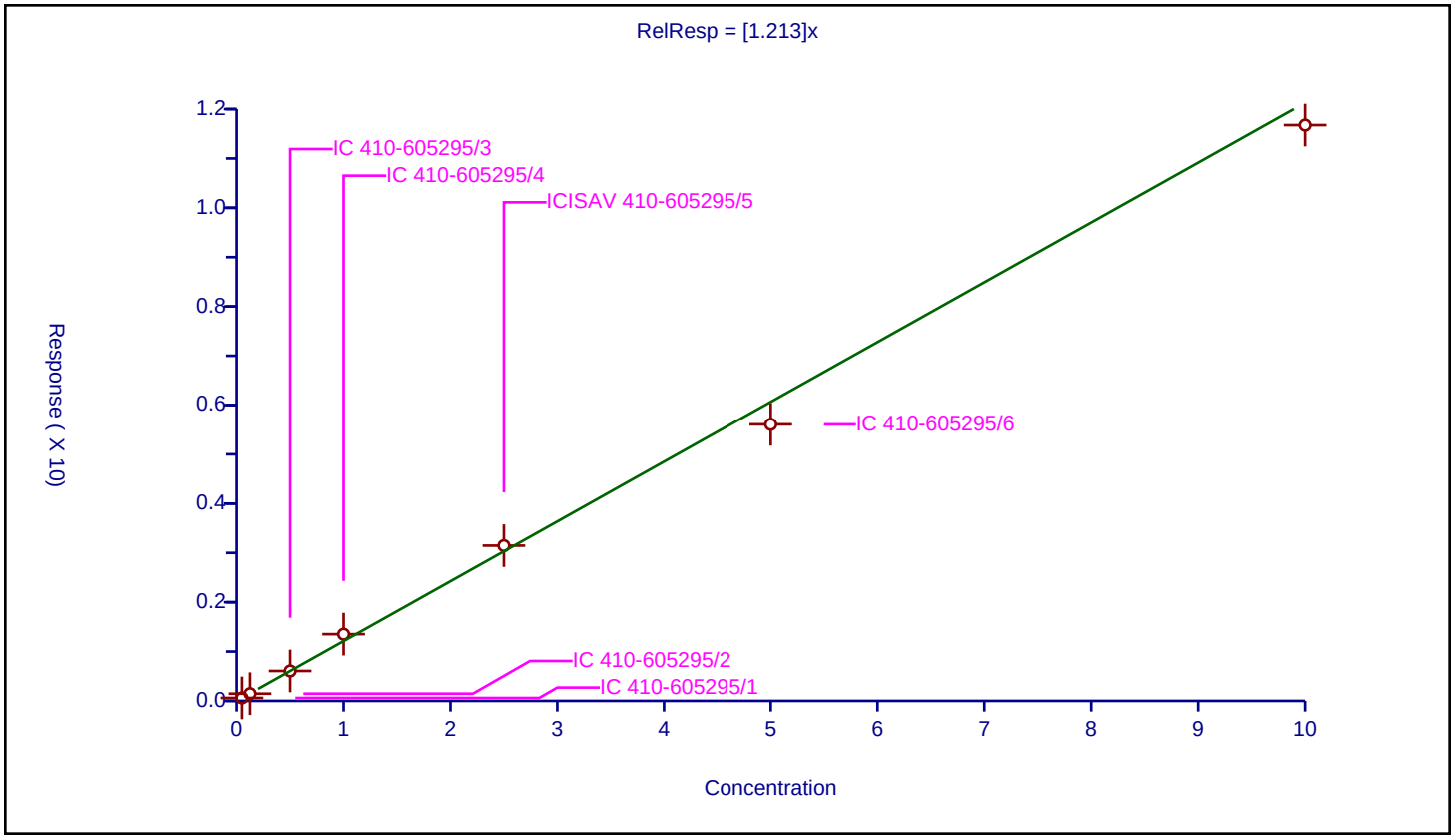
Curve Coefficients

Intercept:	0
Slope:	1.213

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.060009	1.896	978039.0	1.200171	Y
2	IC 410-605295/2	0.125	0.146749	1.896	980334.0	1.17399	Y
3	IC 410-605295/3	0.5	0.606876	1.896	1041236.0	1.213751	Y
4	IC 410-605295/4	1.0	1.353056	1.896	961270.0	1.353056	Y
5	ICISAV 410-605295/5	2.5	3.148197	1.896	1019654.0	1.259279	Y
6	IC 410-605295/6	5.0	5.607882	1.896	991254.0	1.121576	Y
7	IC 410-605295/7	10.0	11.676047	1.896	976899.0	1.167605	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

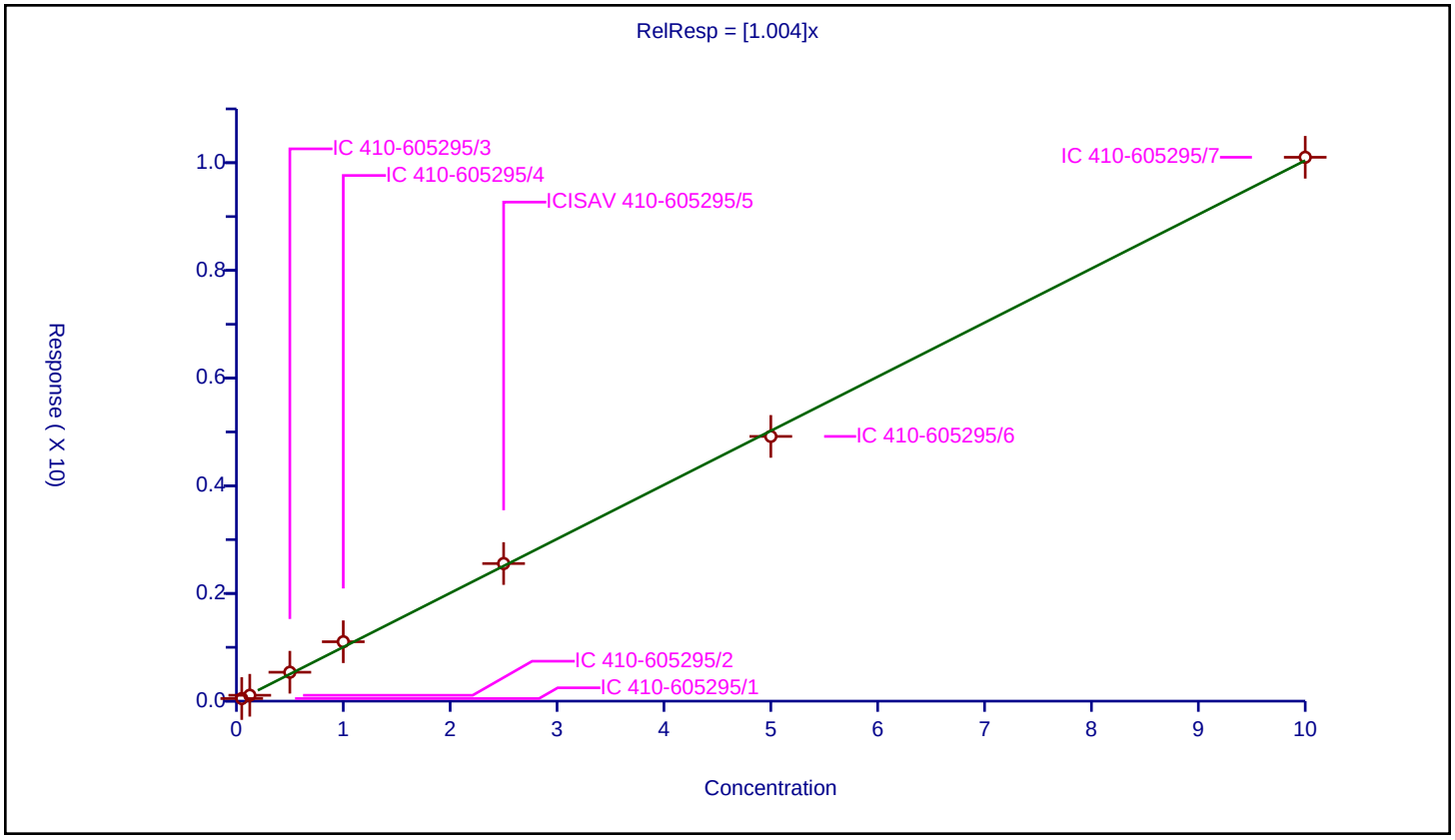
Curve Coefficients

Intercept:	0
Slope:	1.004

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.048144	5.0	750049.0	0.96287	Y
2	IC 410-605295/2	0.125	0.109159	5.0	826778.0	0.873269	Y
3	IC 410-605295/3	0.5	0.536862	5.0	806325.0	1.073723	Y
4	IC 410-605295/4	1.0	1.103309	5.0	753832.0	1.103309	Y
5	ICISAV 410-605295/5	2.5	2.555946	5.0	820608.0	1.022379	Y
6	IC 410-605295/6	5.0	4.916731	5.0	785711.0	0.983346	Y
7	IC 410-605295/7	10.0	10.101311	5.0	765709.0	1.010131	Y



Calibration / Perfluorodecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

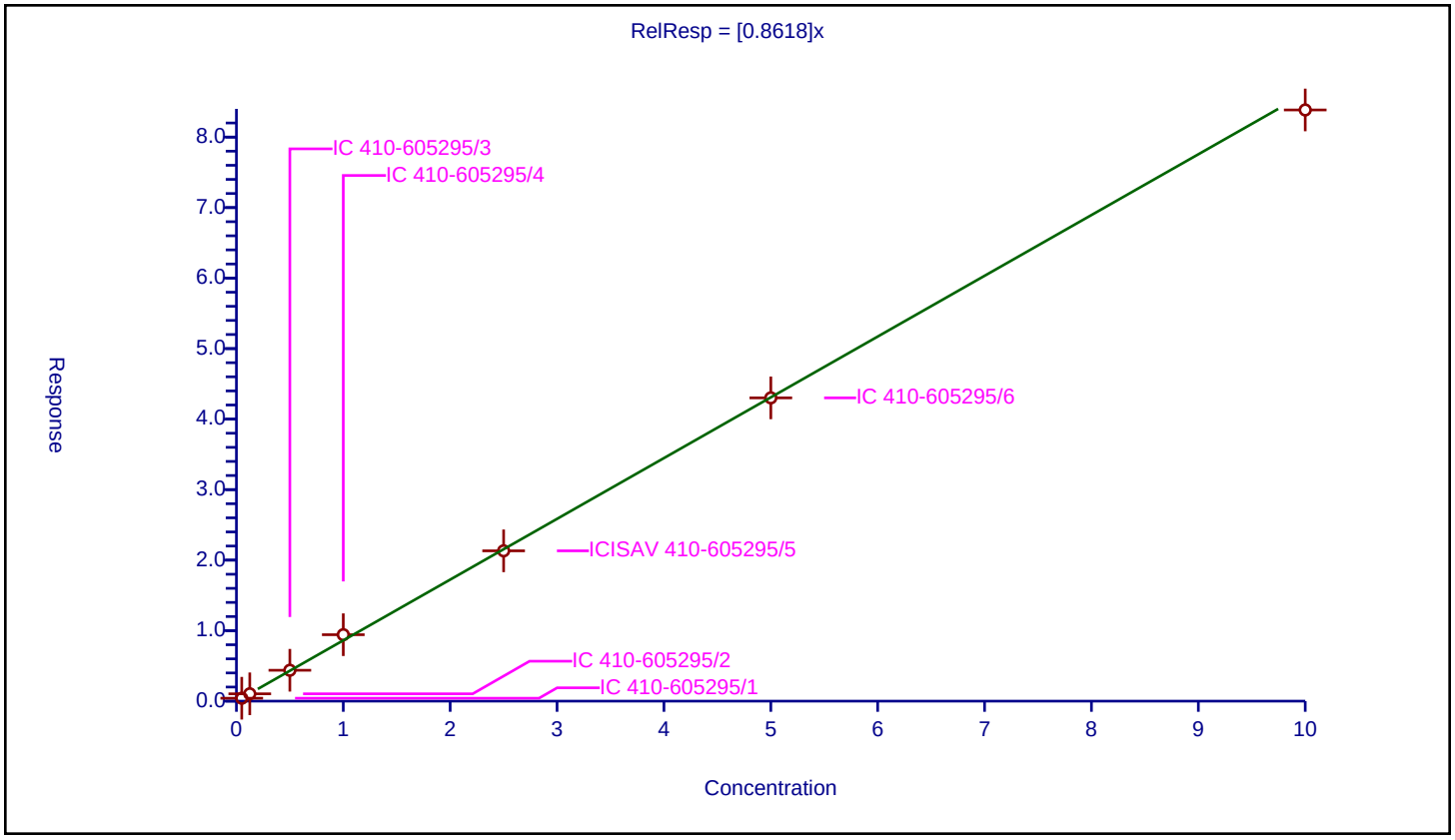
Curve Coefficients

Intercept:	0
Slope:	0.8618

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.041441	2.0	1286277.0	0.828811	Y
2	IC 410-605295/2	0.125	0.104246	2.0	1352010.0	0.83397	Y
3	IC 410-605295/3	0.5	0.437909	2.0	1431509.0	0.875817	Y
4	IC 410-605295/4	1.0	0.942447	2.0	1288792.0	0.942447	Y
5	ICISAV 410-605295/5	2.5	2.13174	2.0	1447522.0	0.852696	Y
6	IC 410-605295/6	5.0	4.30147	2.0	1306795.0	0.860294	Y
7	IC 410-605295/7	10.0	8.384901	2.0	1279170.0	0.83849	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

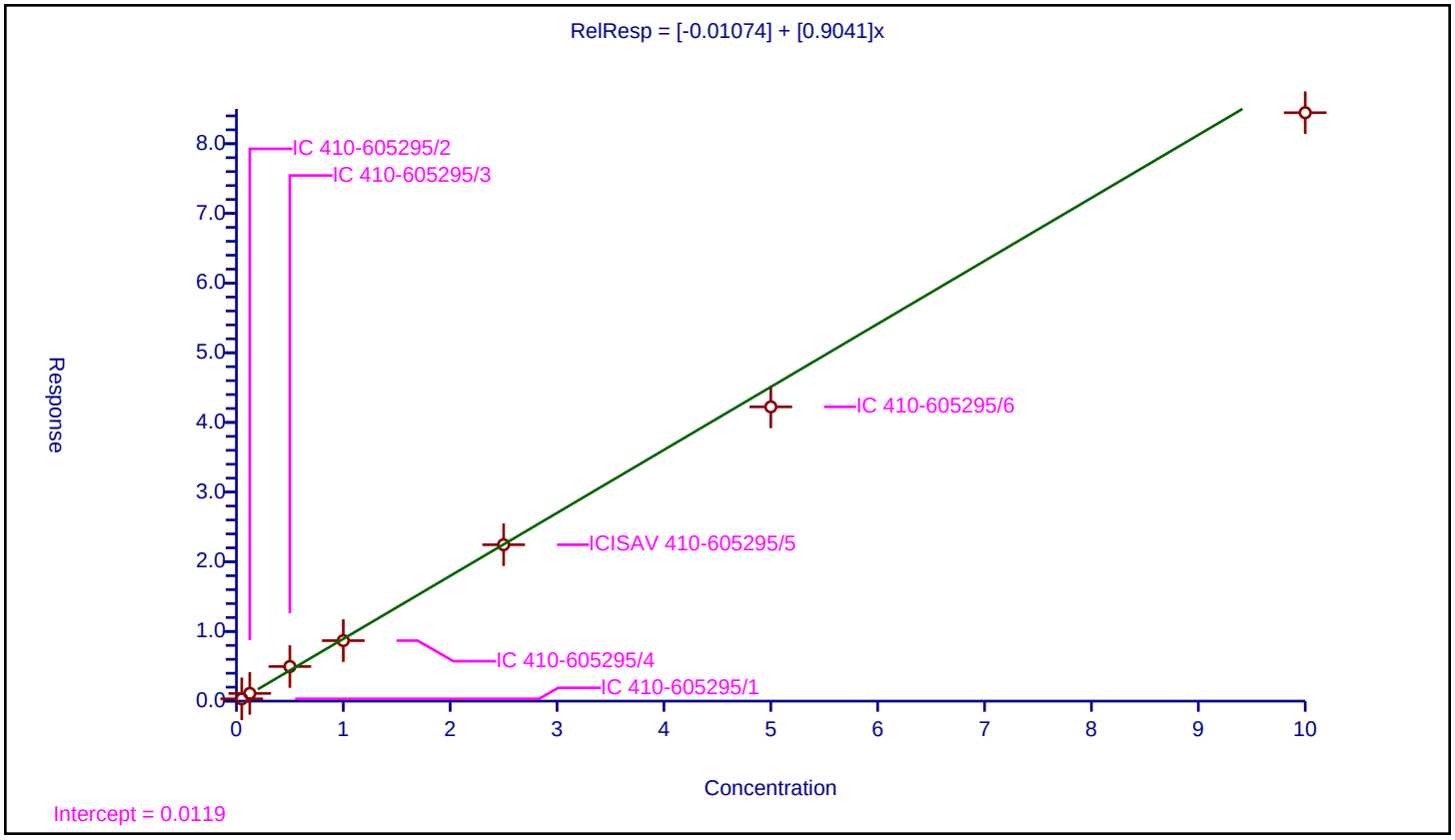
Curve Coefficients

Intercept:	-0.01074
Slope:	0.9041

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.032657	5.0	701690.0	0.653137	Y
2	IC 410-605295/2	0.125	0.110797	5.0	641309.0	0.886375	Y
3	IC 410-605295/3	0.5	0.496648	5.0	664515.0	0.993296	Y
4	IC 410-605295/4	1.0	0.868336	5.0	648217.0	0.868336	Y
5	ICISAV 410-605295/5	2.5	2.244729	5.0	709079.0	0.897891	Y
6	IC 410-605295/6	5.0	4.223678	5.0	660911.0	0.844736	Y
7	IC 410-605295/7	10.0	8.445321	5.0	642393.0	0.844532	Y



Calibration / Perfluorooctanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

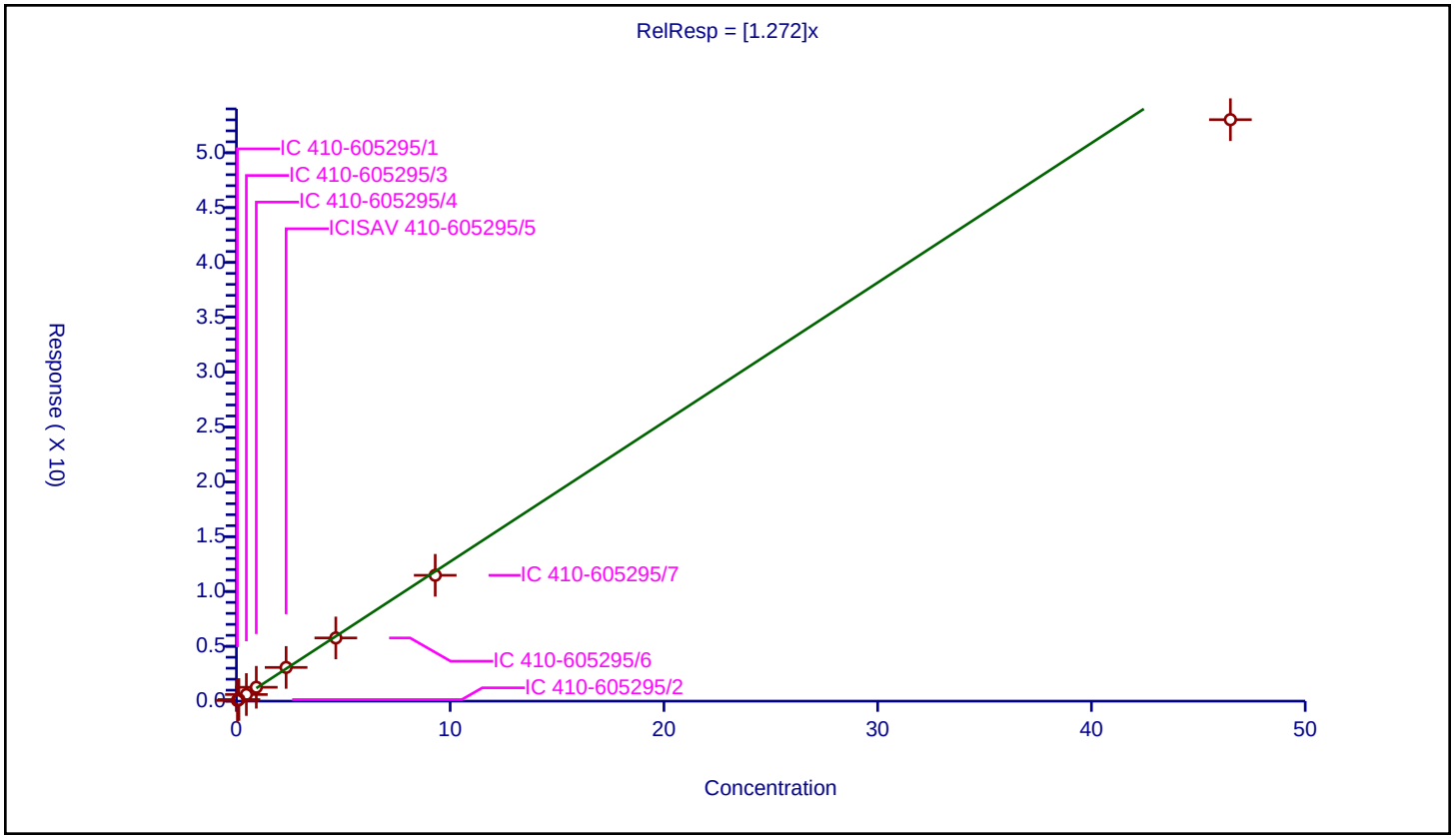
Curve Coefficients

Intercept:	0
Slope:	1.272

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0465	0.062878	1.912	970717.0	1.352216	Y
2	IC 410-605295/2	0.11625	0.143596	1.912	892833.0	1.235234	Y
3	IC 410-605295/3	0.465	0.602918	1.912	929057.0	1.296598	Y
4	IC 410-605295/4	0.93	1.262892	1.912	839137.0	1.357948	Y
5	ICISAV 410-605295/5	2.325	3.073687	1.912	962655.0	1.322016	Y
6	IC 410-605295/6	4.65	5.760341	1.912	860511.0	1.238783	Y
7	IC 410-605295/7	9.3	11.472594	1.912	903782.0	1.233612	Y
8	IC 410-605295/8	46.5	53.015516	1.912	806151.0	1.140119	Y



Calibration / Perfluoroundecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

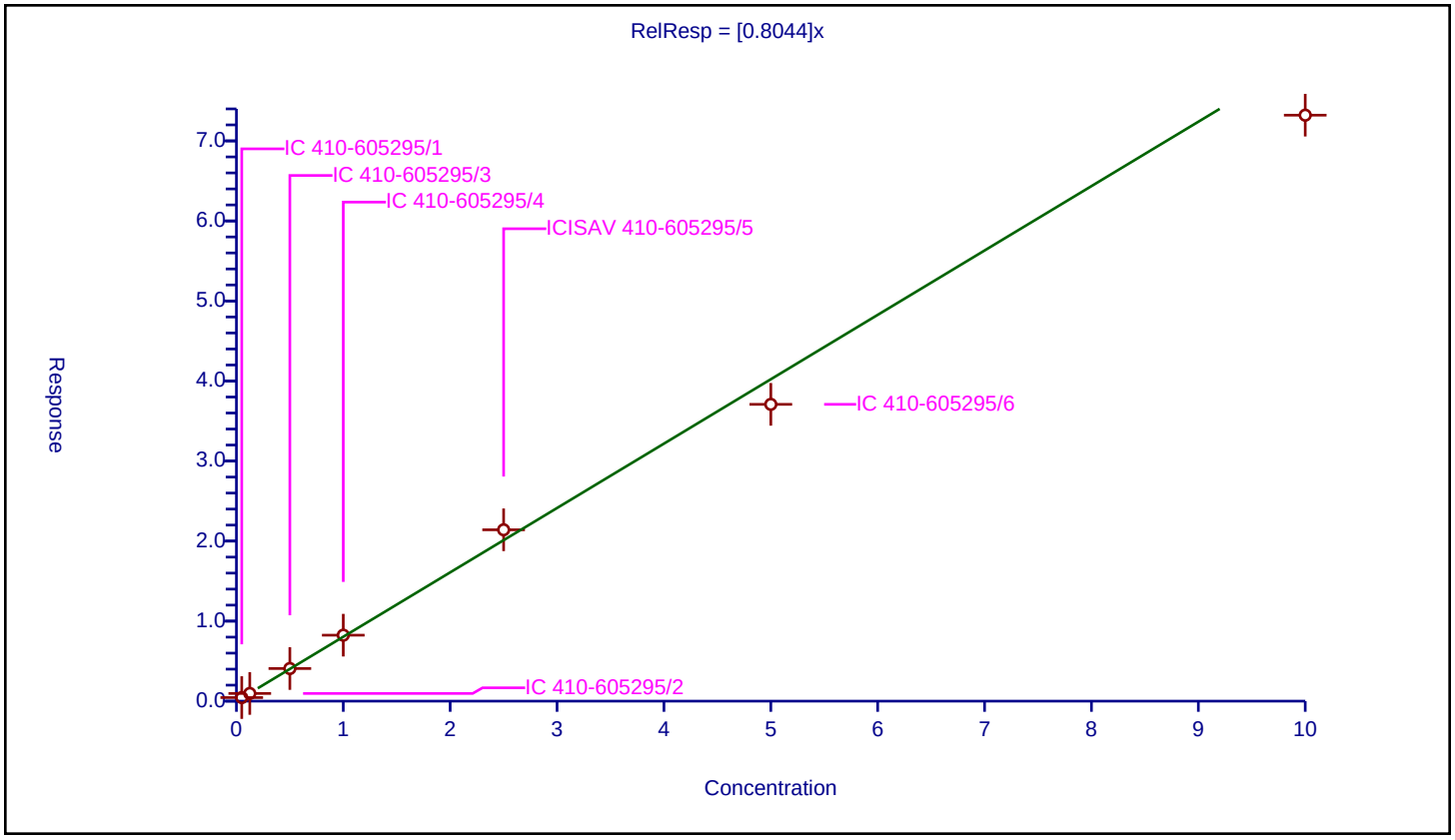
Curve Coefficients

Intercept:	0
Slope:	0.8044

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.044696	2.0	1323736.0	0.893924	Y
2	IC 410-605295/2	0.125	0.095878	2.0	1214267.0	0.767027	Y
3	IC 410-605295/3	0.5	0.407593	2.0	1263654.0	0.815185	Y
4	IC 410-605295/4	1.0	0.824273	2.0	1252173.0	0.824273	Y
5	ICISAV 410-605295/5	2.5	2.141018	2.0	1197182.0	0.856407	Y
6	IC 410-605295/6	5.0	3.708306	2.0	1310606.0	0.741661	Y
7	IC 410-605295/7	10.0	7.32151	2.0	1237375.0	0.732151	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

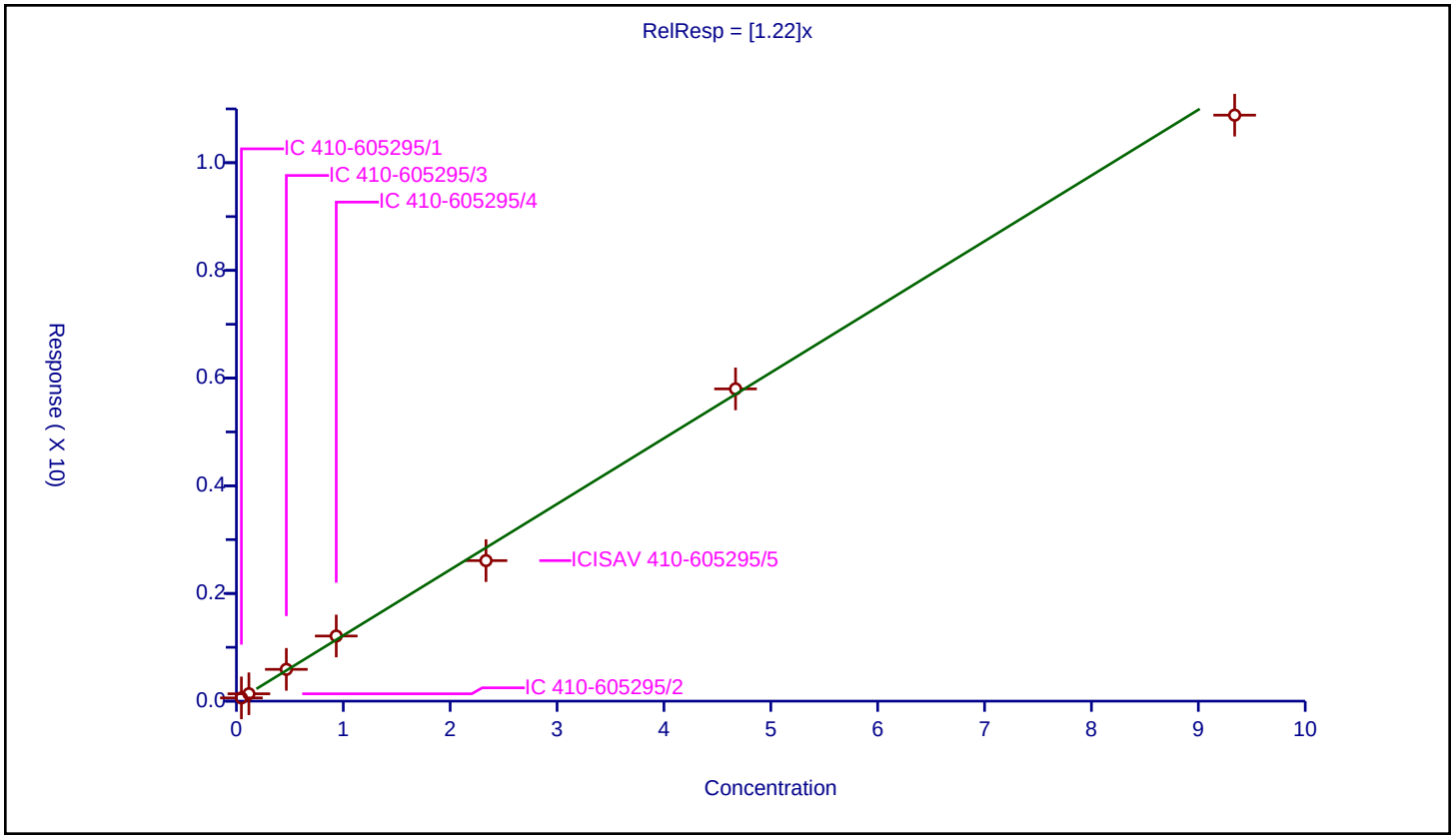
Curve Coefficients

Intercept:	0
Slope:	1.22

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0467	0.060137	2.0	1344770.0	1.287723	Y
2	IC 410-605295/2	0.11675	0.136654	2.0	1397534.0	1.17048	Y
3	IC 410-605295/3	0.467	0.590368	2.0	1356500.0	1.264171	Y
4	IC 410-605295/4	0.934	1.209919	2.0	1319062.0	1.295416	Y
5	ICISAV 410-605295/5	2.335	2.609997	2.0	1491647.0	1.117772	Y
6	IC 410-605295/6	4.67	5.799409	2.0	1310467.0	1.241843	Y
7	IC 410-605295/7	9.34	10.883707	2.0	1368311.0	1.165279	Y



Calibration / Perfluorononanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

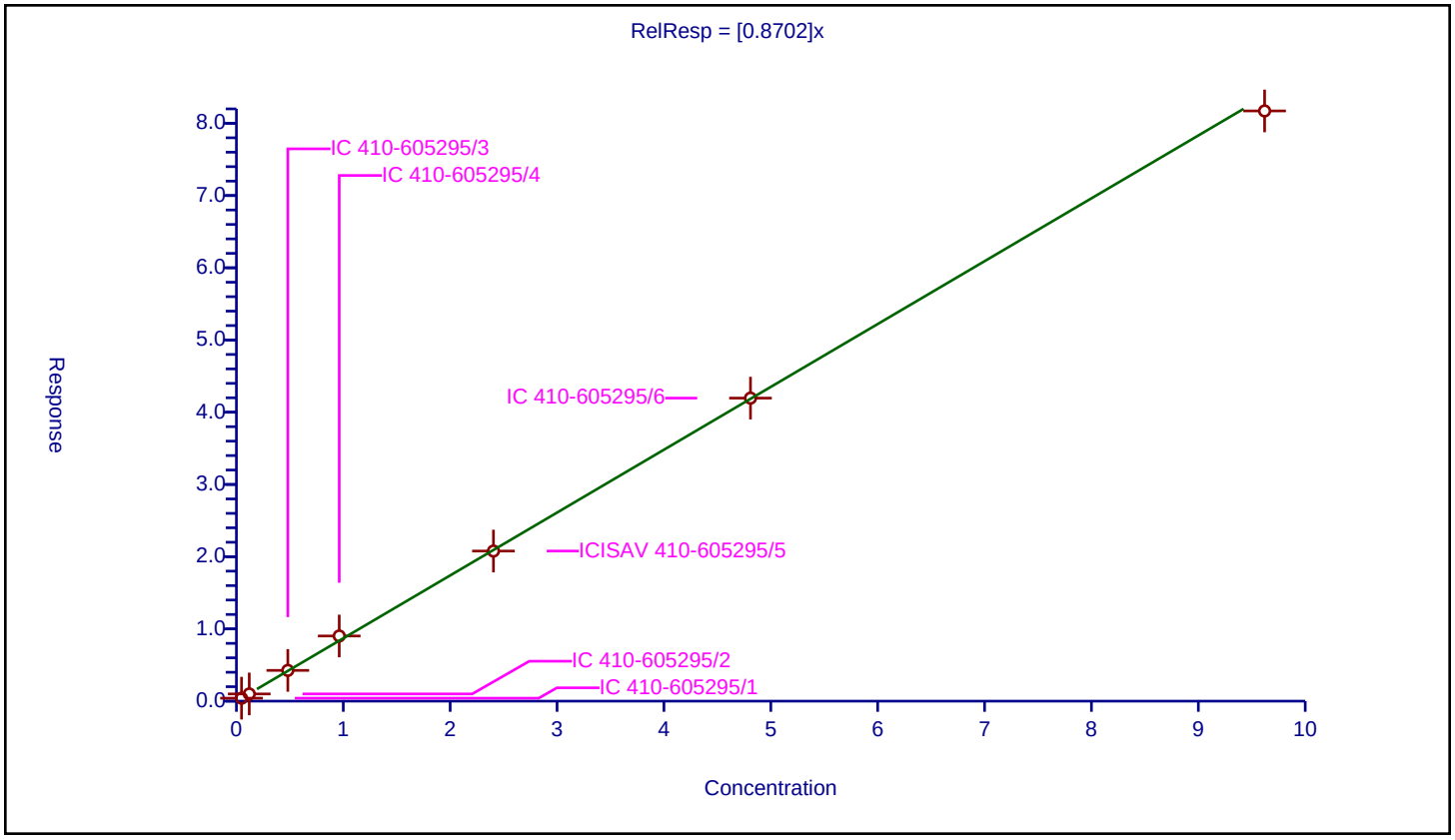
Curve Coefficients

Intercept:	0
Slope:	0.8702

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0481	0.040975	1.912	970717.0	0.851876	Y
2	IC 410-605295/2	0.12025	0.09992	1.912	892833.0	0.830937	Y
3	IC 410-605295/3	0.481	0.425646	1.912	929057.0	0.884919	Y
4	IC 410-605295/4	0.962	0.902205	1.912	839137.0	0.937843	Y
5	ICISAV 410-605295/5	2.405	2.07801	1.912	962655.0	0.864038	Y
6	IC 410-605295/6	4.81	4.195512	1.912	860511.0	0.872248	Y
7	IC 410-605295/7	9.62	8.171441	1.912	903782.0	0.849422	Y



Calibration / Perfluorododecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

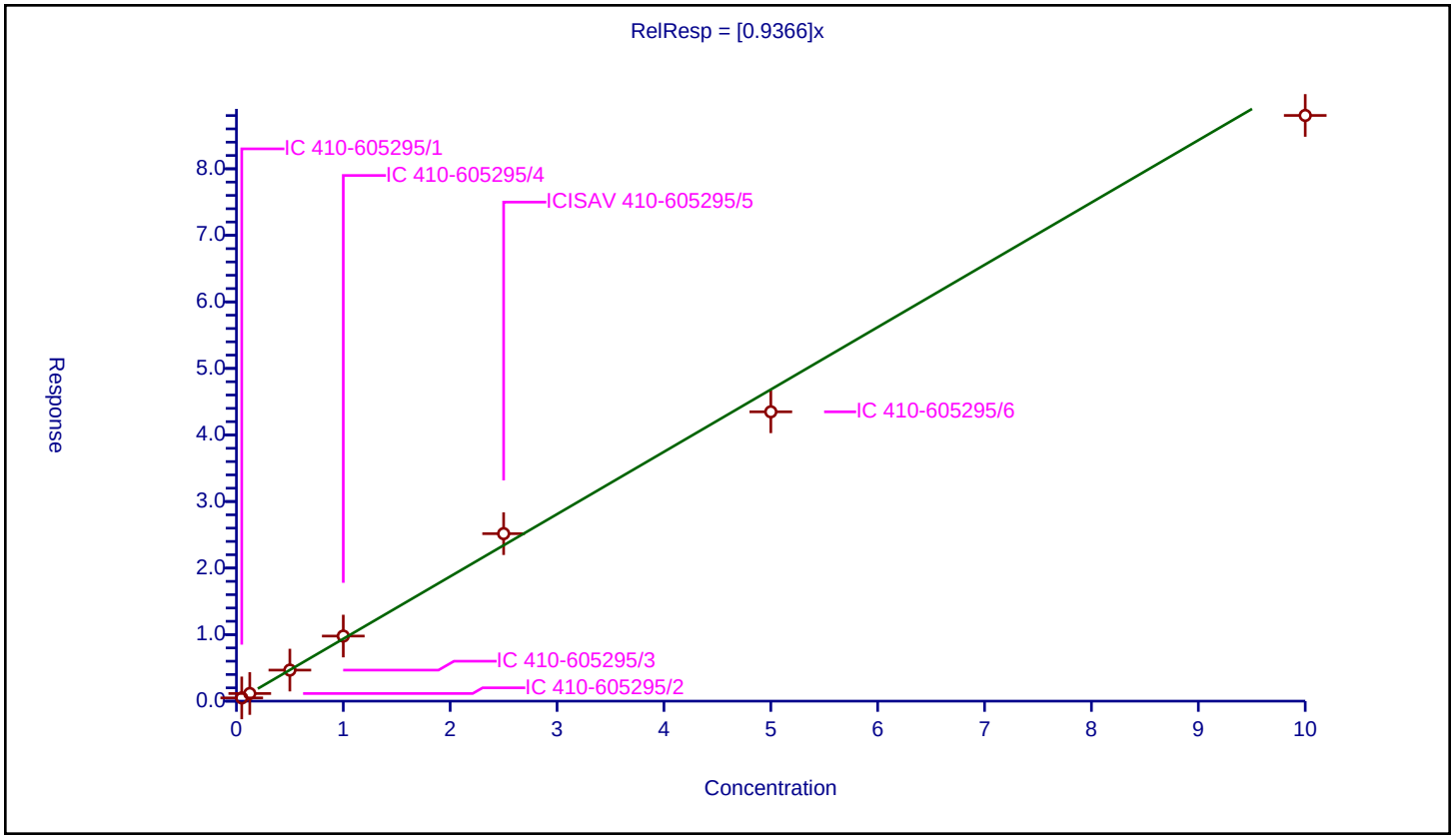
Curve Coefficients

Intercept:	0
Slope:	0.9366

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.048608	2.0	1059076.0	0.972168	Y
2	IC 410-605295/2	0.125	0.114544	2.0	1055651.0	0.916348	Y
3	IC 410-605295/3	0.5	0.466552	2.0	1071834.0	0.933103	Y
4	IC 410-605295/4	1.0	0.977932	2.0	1071467.0	0.977932	Y
5	ICISAV 410-605295/5	2.5	2.516883	2.0	1073497.0	1.006753	Y
6	IC 410-605295/6	5.0	4.347988	2.0	1054381.0	0.869598	Y
7	IC 410-605295/7	10.0	8.801469	2.0	1018652.0	0.880147	Y



Calibration / Perfluorooctanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

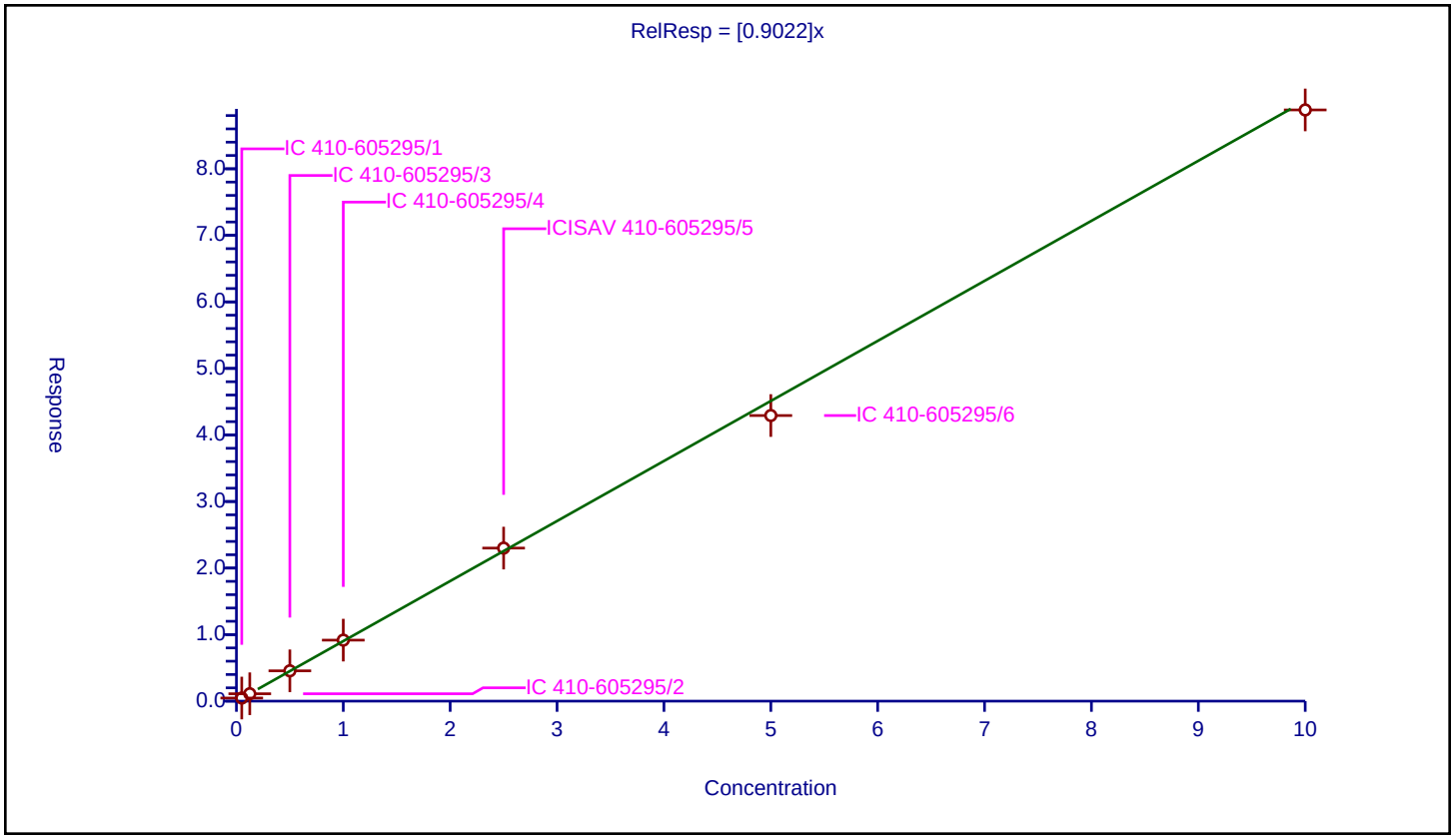
Curve Coefficients

Intercept:	0
Slope:	0.9022

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.04662	2.0	1120687.0	0.932392	Y
2	IC 410-605295/2	0.125	0.111008	2.0	1128227.0	0.888062	Y
3	IC 410-605295/3	0.5	0.455612	2.0	1112702.0	0.911223	Y
4	IC 410-605295/4	1.0	0.916923	2.0	1084693.0	0.916923	Y
5	ICISAV 410-605295/5	2.5	2.299951	2.0	1105246.0	0.919981	Y
6	IC 410-605295/6	5.0	4.292053	2.0	1108085.0	0.858411	Y
7	IC 410-605295/7	10.0	8.88454	2.0	1068117.0	0.888454	Y



Calibration / Perfluorodecanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

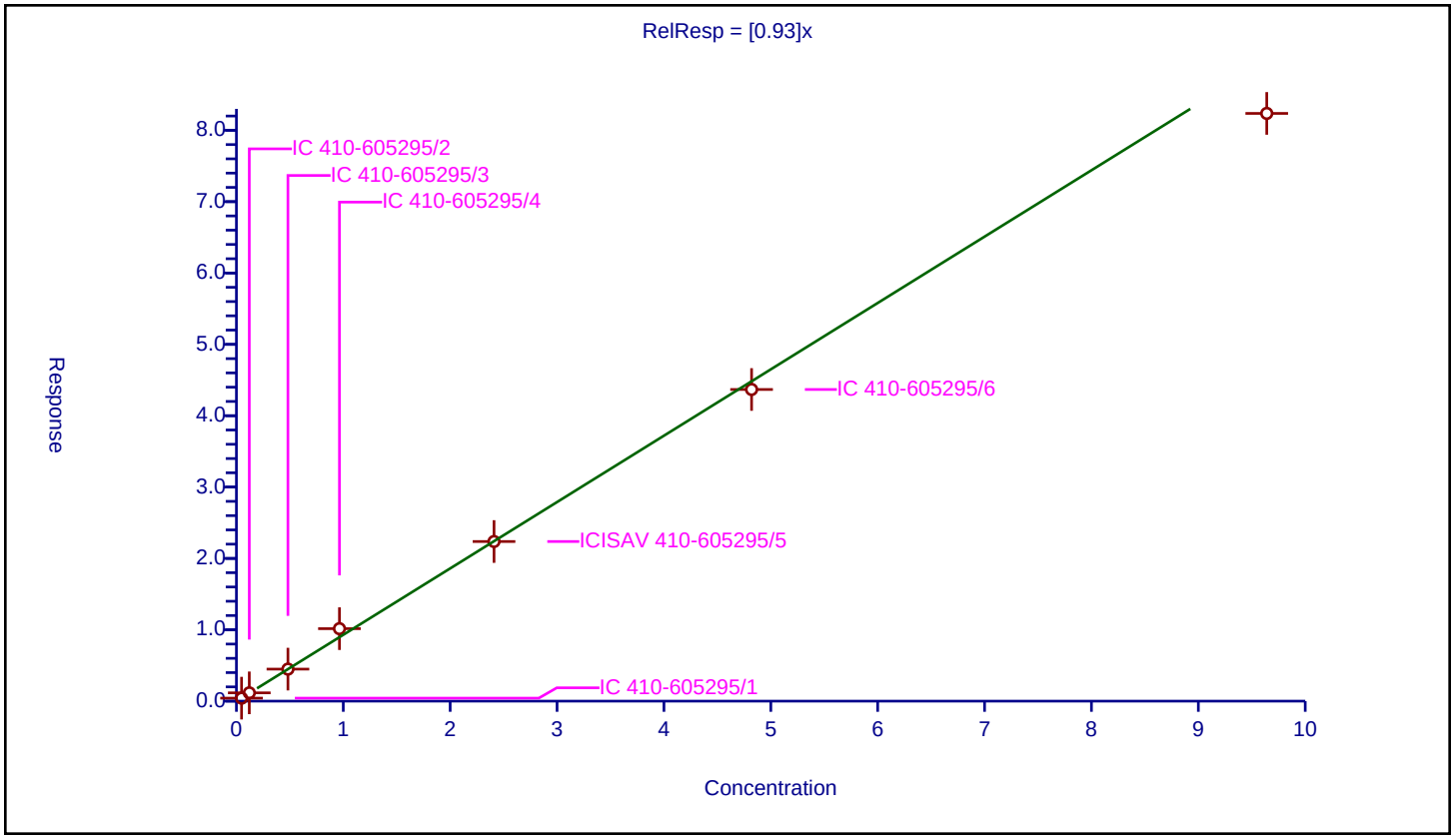
Curve Coefficients

Intercept:	0
Slope:	0.93

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0482	0.041997	1.912	970717.0	0.871317	Y
2	IC 410-605295/2	0.1205	0.116273	1.912	892833.0	0.964918	Y
3	IC 410-605295/3	0.482	0.448671	1.912	929057.0	0.930853	Y
4	IC 410-605295/4	0.964	1.015817	1.912	839137.0	1.053752	Y
5	ICISAV 410-605295/5	2.41	2.237254	1.912	962655.0	0.928321	Y
6	IC 410-605295/6	4.82	4.367721	1.912	860511.0	0.906166	Y
7	IC 410-605295/7	9.64	8.236585	1.912	903782.0	0.854418	Y



Calibration / Perfluorotridecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

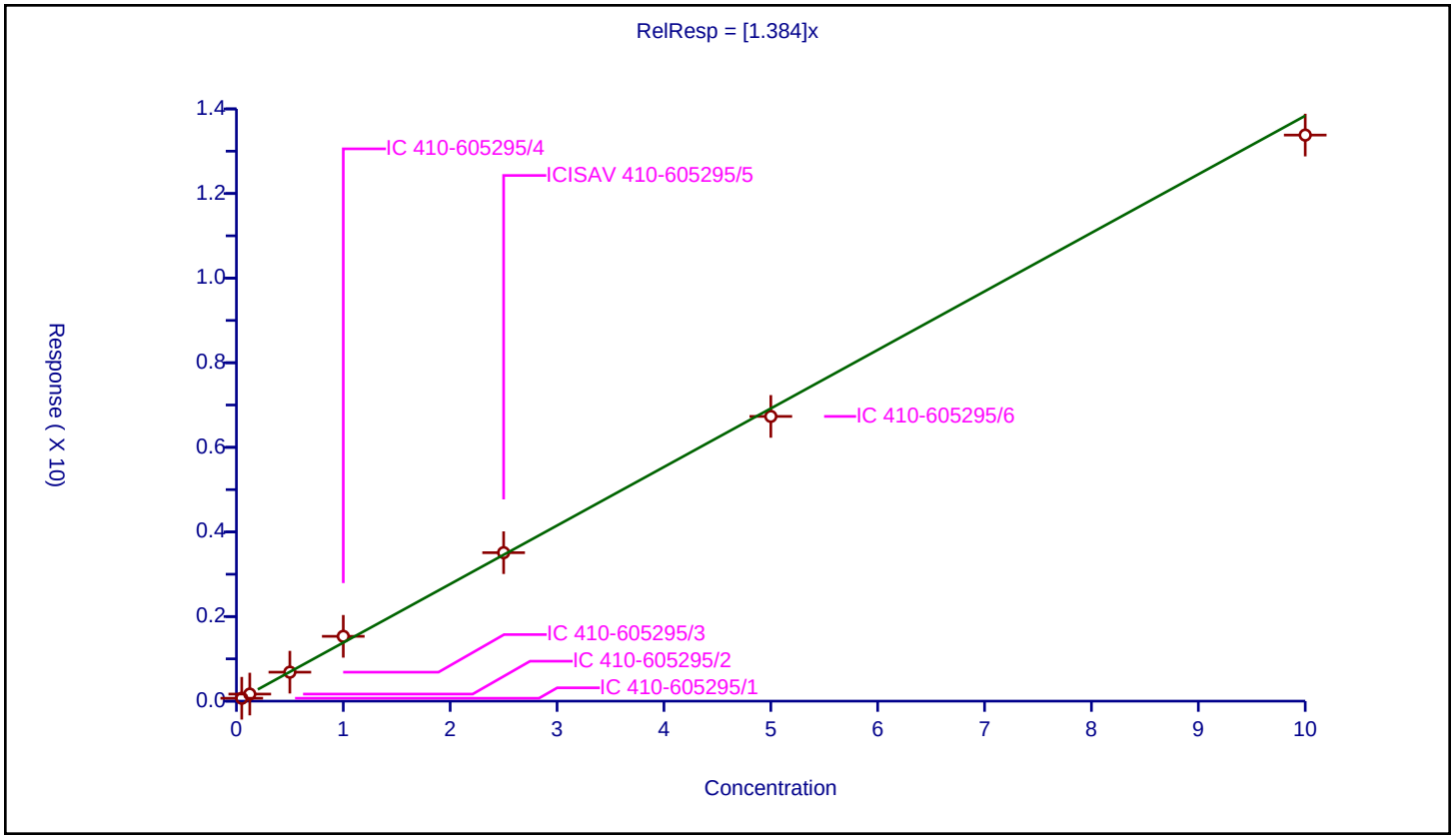
Curve Coefficients

Intercept:	0
Slope:	1.384

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.068013	2.0	795876.0	1.360262	Y
2	IC 410-605295/2	0.125	0.167079	2.0	713746.0	1.336632	Y
3	IC 410-605295/3	0.5	0.684439	2.0	781420.0	1.368877	Y
4	IC 410-605295/4	1.0	1.532034	2.0	717373.0	1.532034	Y
5	ICISAV 410-605295/5	2.5	3.509988	2.0	787887.0	1.403995	Y
6	IC 410-605295/6	5.0	6.730883	2.0	740742.0	1.346177	Y
7	IC 410-605295/7	10.0	13.38112	2.0	691148.0	1.338112	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

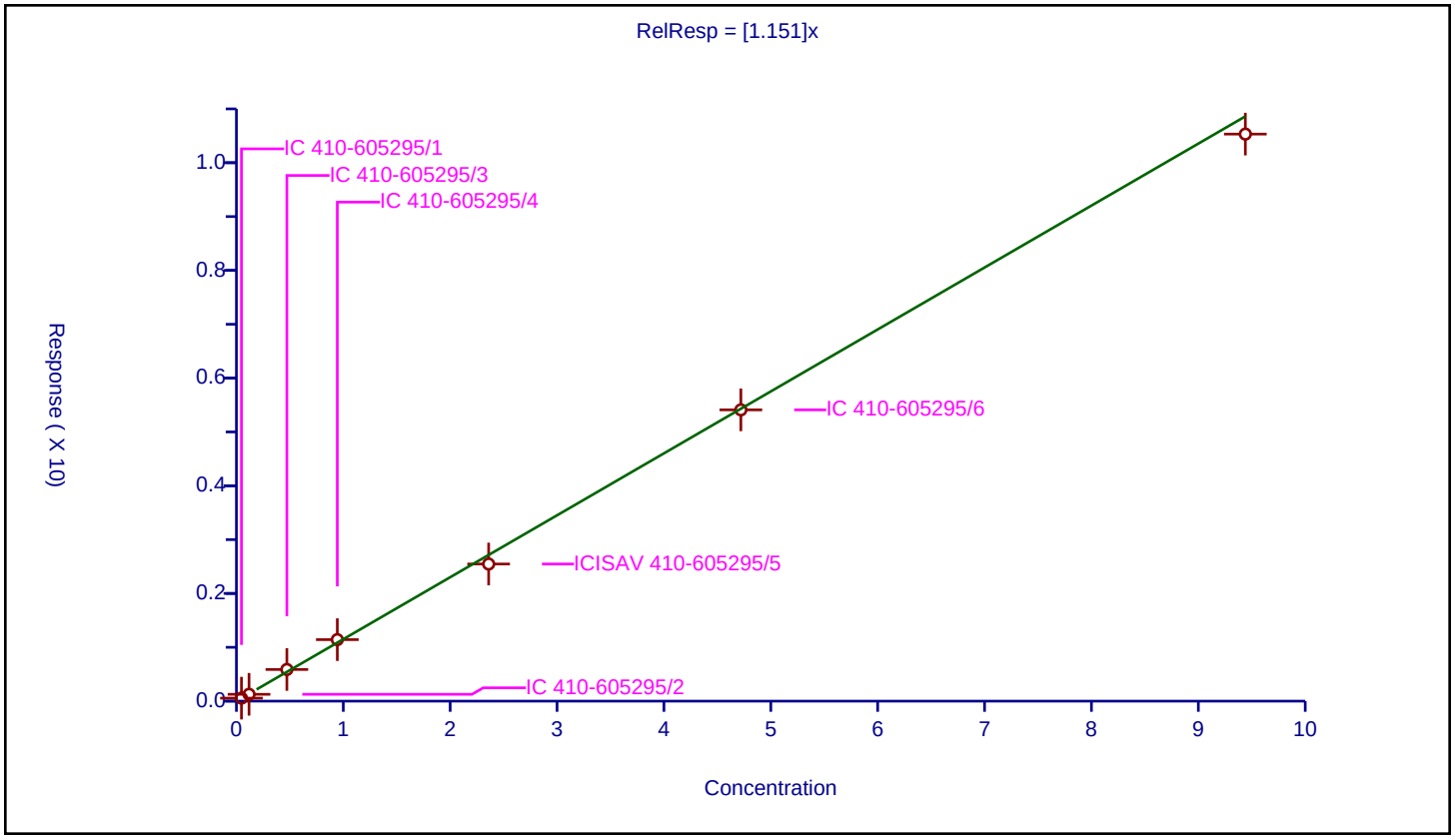
Curve Coefficients

Intercept:	0
Slope:	1.151

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0472	0.05587	2.0	1344770.0	1.183682	Y
2	IC 410-605295/2	0.118	0.126692	2.0	1397534.0	1.073659	Y
3	IC 410-605295/3	0.472	0.587832	2.0	1356500.0	1.245407	Y
4	IC 410-605295/4	0.944	1.142248	2.0	1319062.0	1.210009	Y
5	ICISAV 410-605295/5	2.36	2.546692	2.0	1491647.0	1.079107	Y
6	IC 410-605295/6	4.72	5.409961	2.0	1310467.0	1.146178	Y
7	IC 410-605295/7	9.44	10.531908	2.0	1368311.0	1.115668	Y



Calibration / Perfluorotetradecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

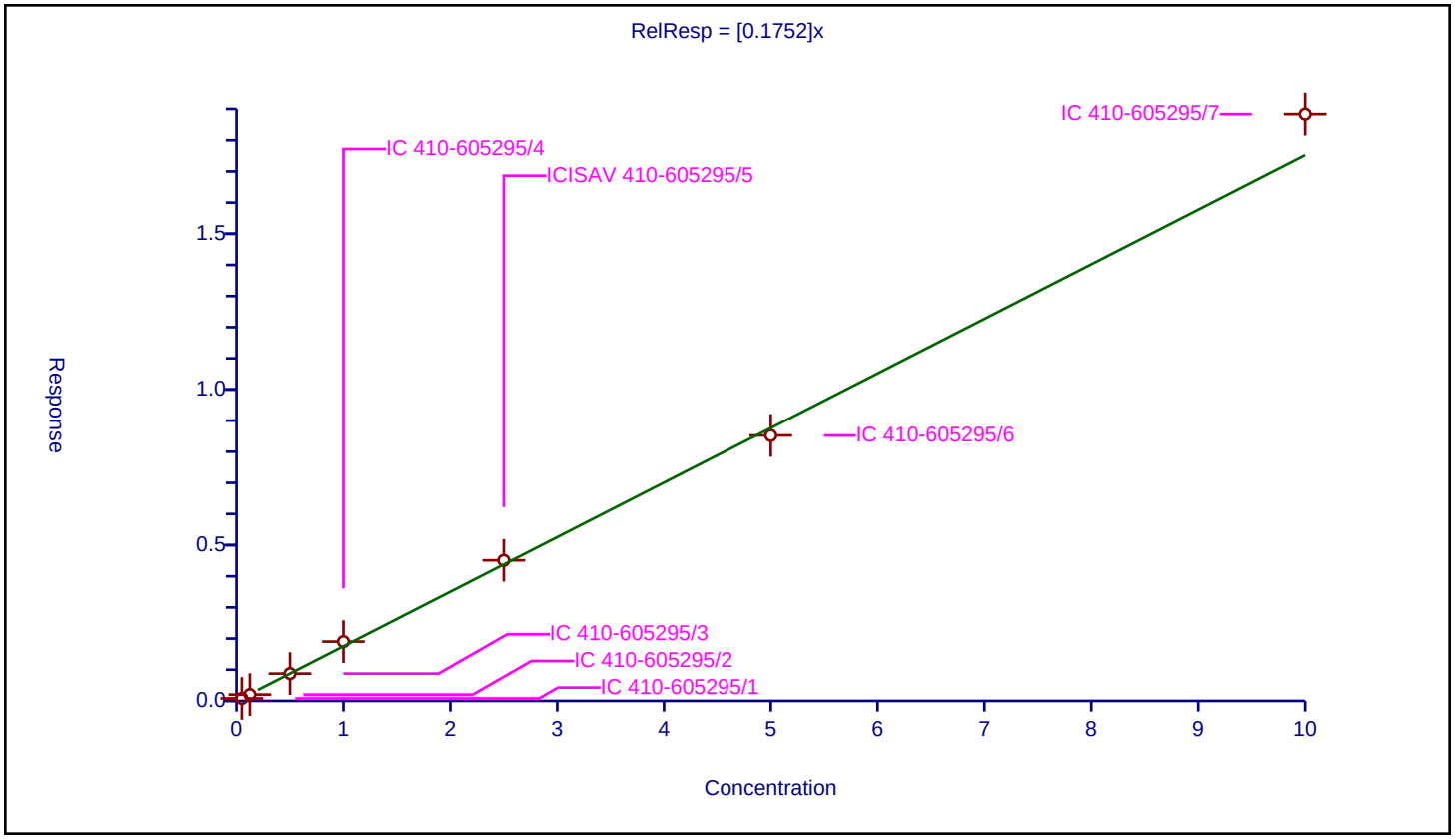
Curve Coefficients

Intercept:	0
Slope:	0.1752

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.007974	2.0	795876.0	0.159472	Y
2	IC 410-605295/2	0.125	0.020296	2.0	713746.0	0.162366	Y
3	IC 410-605295/3	0.5	0.087584	2.0	781420.0	0.175168	Y
4	IC 410-605295/4	1.0	0.190297	2.0	717373.0	0.190297	Y
5	ICISAV 410-605295/5	2.5	0.45127	2.0	787887.0	0.180508	Y
6	IC 410-605295/6	5.0	0.852299	2.0	740742.0	0.17046	Y
7	IC 410-605295/7	10.0	1.883487	2.0	691148.0	0.188349	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

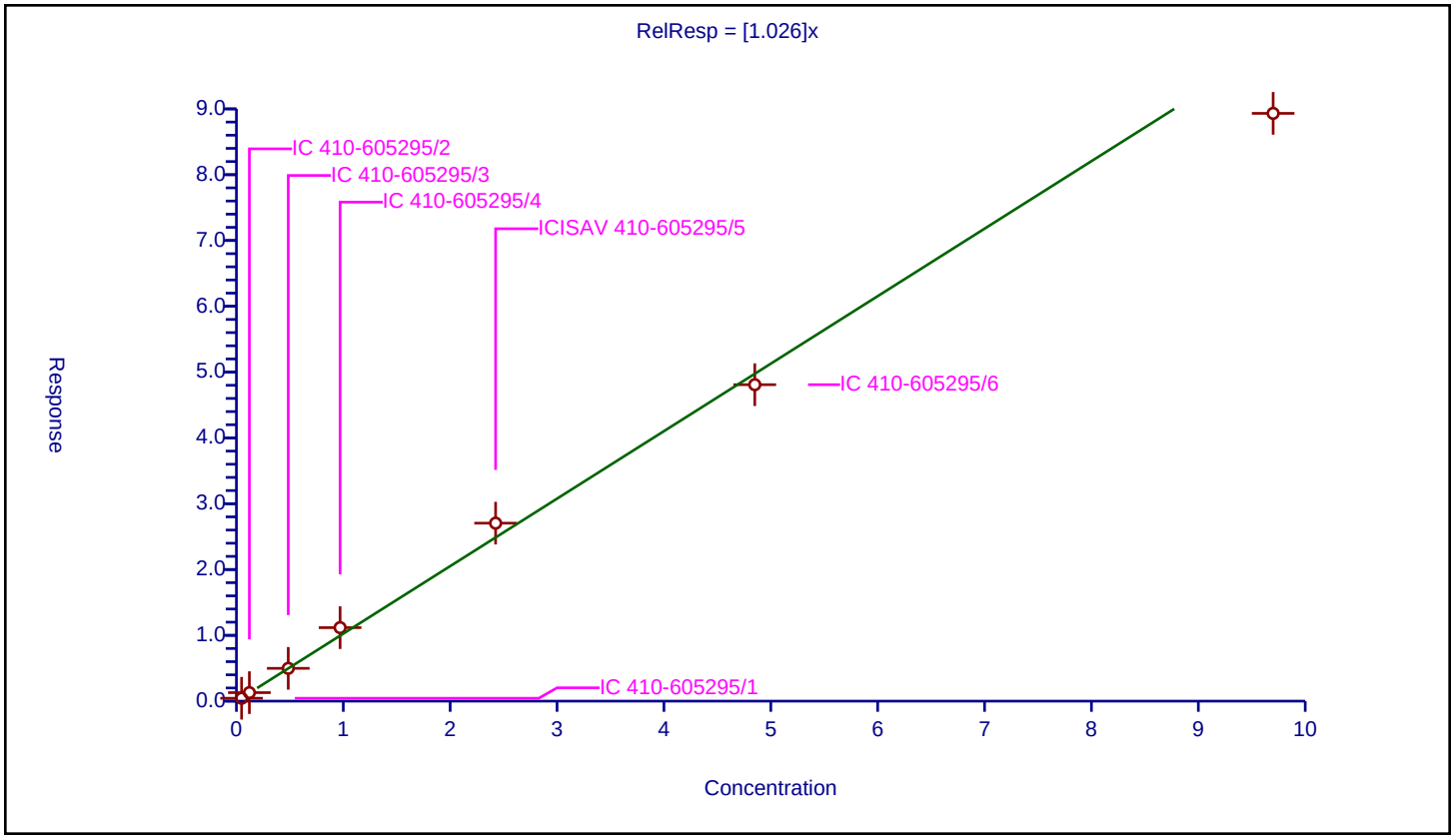
Curve Coefficients

Intercept:	0
Slope:	1.026

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.0485	0.044003	1.912	970717.0	0.90727	Y
2	IC 410-605295/2	0.12125	0.129282	1.912	892833.0	1.066245	Y
3	IC 410-605295/3	0.485	0.498236	1.912	929057.0	1.02729	Y
4	IC 410-605295/4	0.97	1.11687	1.912	839137.0	1.151412	Y
5	ICISAV 410-605295/5	2.425	2.704529	1.912	962655.0	1.11527	Y
6	IC 410-605295/6	4.85	4.808968	1.912	860511.0	0.99154	Y
7	IC 410-605295/7	9.7	8.93193	1.912	903782.0	0.920818	Y



Calibration / 2-(N-methylperfluoro-1-octanesulfonamido) ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

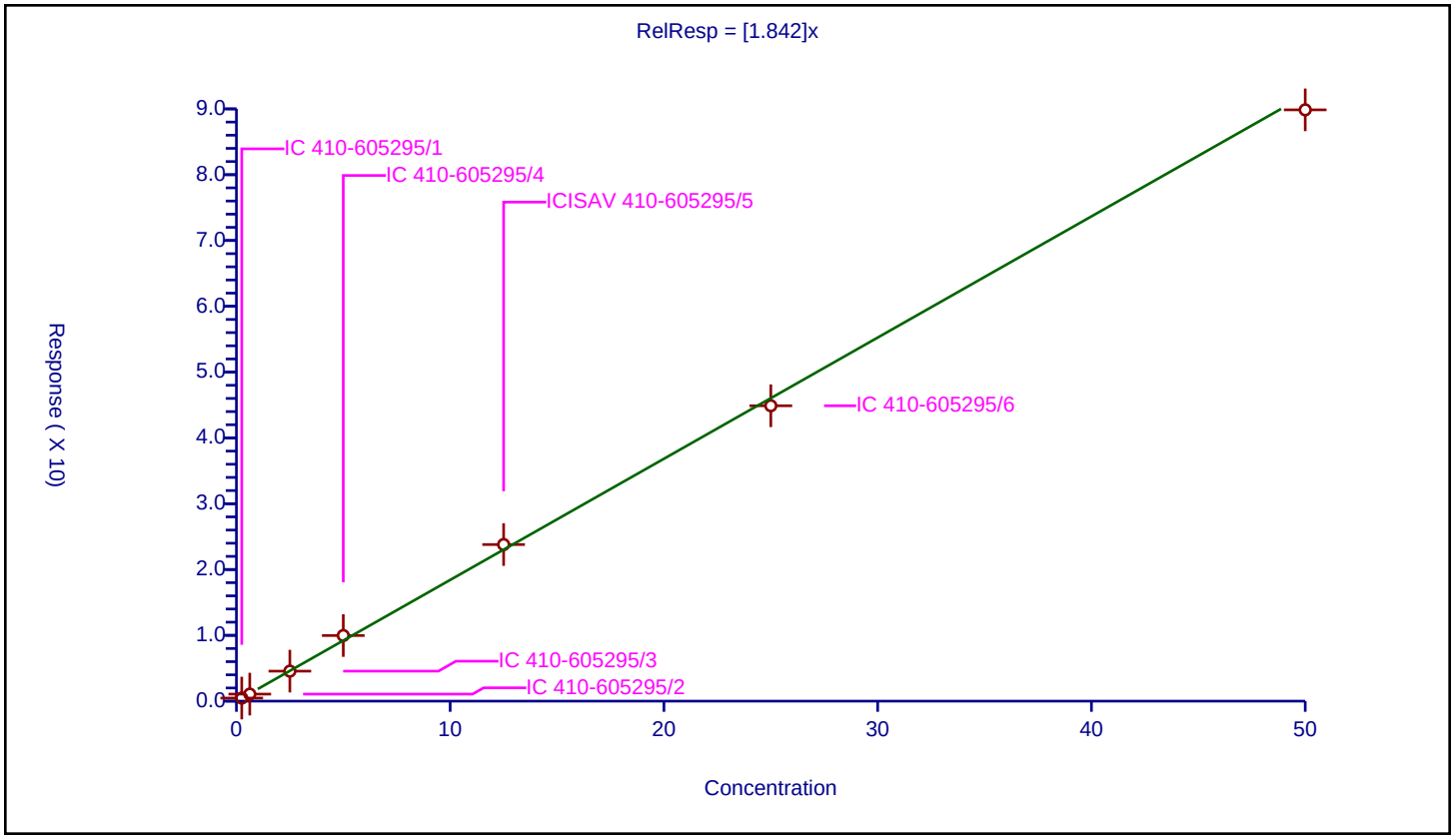
Curve Coefficients

Intercept:	0
Slope:	1.842

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.25	0.466312	5.0	434623.0	1.865249	Y
2	IC 410-605295/2	0.625	1.069736	5.0	430321.0	1.711578	Y
3	IC 410-605295/3	2.5	4.559589	5.0	441656.0	1.823836	Y
4	IC 410-605295/4	5.0	9.972649	5.0	417537.0	1.99453	Y
5	ICISAV 410-605295/5	12.5	23.794878	5.0	435873.0	1.90359	Y
6	IC 410-605295/6	25.0	44.887985	5.0	439628.0	1.795519	Y
7	IC 410-605295/7	50.0	89.855183	5.0	425122.0	1.797104	Y



Calibration / NMeFOSA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

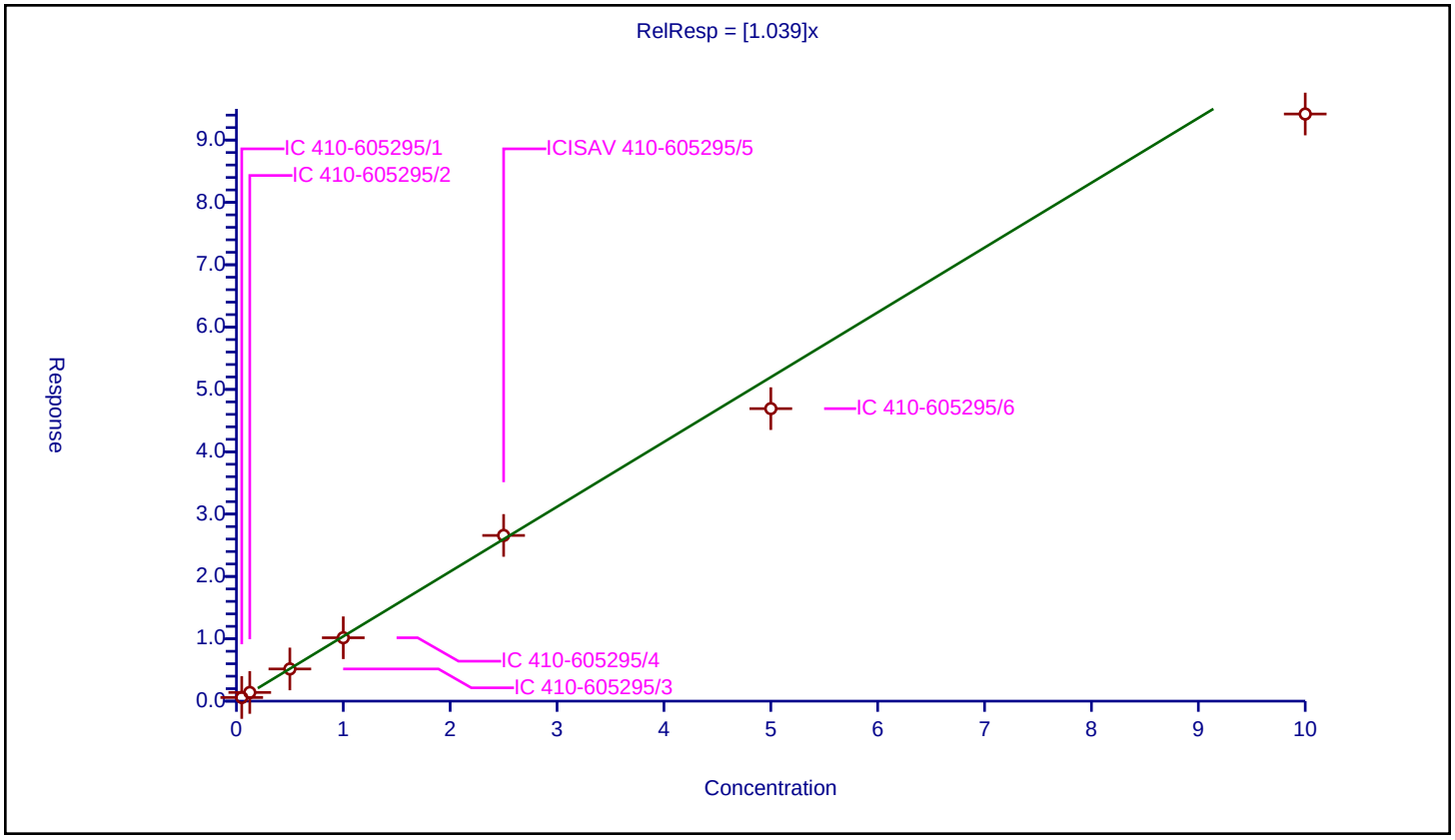
Curve Coefficients

Intercept:	0
Slope:	1.039

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.05823	2.0	276696.0	1.164599	Y
2	IC 410-605295/2	0.125	0.139665	2.0	286084.0	1.117322	Y
3	IC 410-605295/3	0.5	0.516272	2.0	289634.0	1.032545	Y
4	IC 410-605295/4	1.0	1.017211	2.0	287490.0	1.017211	Y
5	ICISAV 410-605295/5	2.5	2.657869	2.0	297126.0	1.063148	Y
6	IC 410-605295/6	5.0	4.692095	2.0	303467.0	0.938419	Y
7	IC 410-605295/7	10.0	9.41785	2.0	298758.0	0.941785	Y



Calibration / 2-(N-ethylperfluoro-1-octanesulfonamido) ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

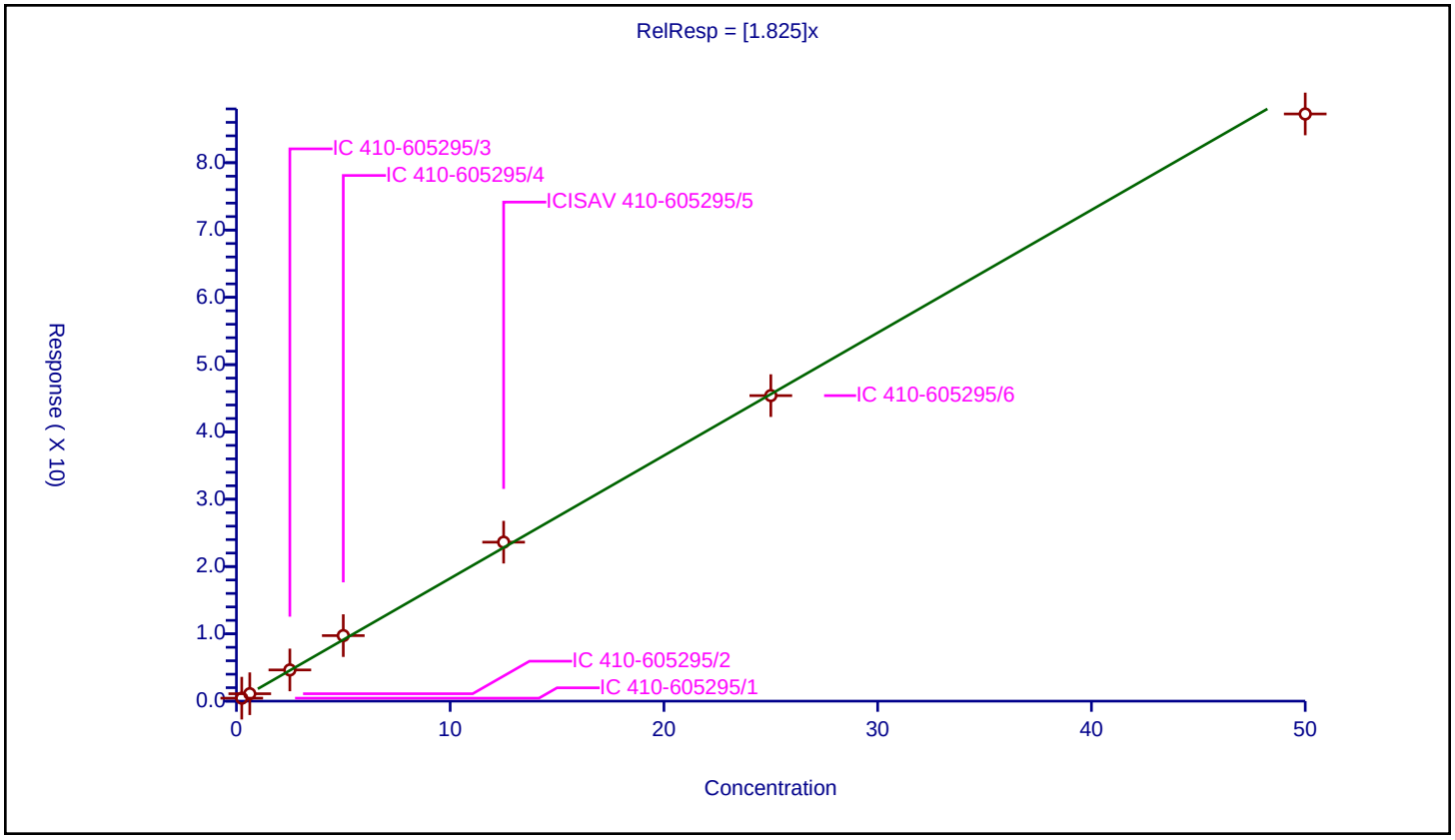
Curve Coefficients

Intercept:	0
Slope:	1.825

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.25	0.439732	5.0	583390.0	1.758926	Y
2	IC 410-605295/2	0.625	1.10024	5.0	549462.0	1.760384	Y
3	IC 410-605295/3	2.5	4.63577	5.0	576490.0	1.854308	Y
4	IC 410-605295/4	5.0	9.738584	5.0	559760.0	1.947717	Y
5	ICISAV 410-605295/5	12.5	23.620648	5.0	577300.0	1.889652	Y
6	IC 410-605295/6	25.0	45.397839	5.0	543360.0	1.815914	Y
7	IC 410-605295/7	50.0	87.246081	5.0	540508.0	1.744922	Y



Calibration / N-ethylperfluoro-1-octanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

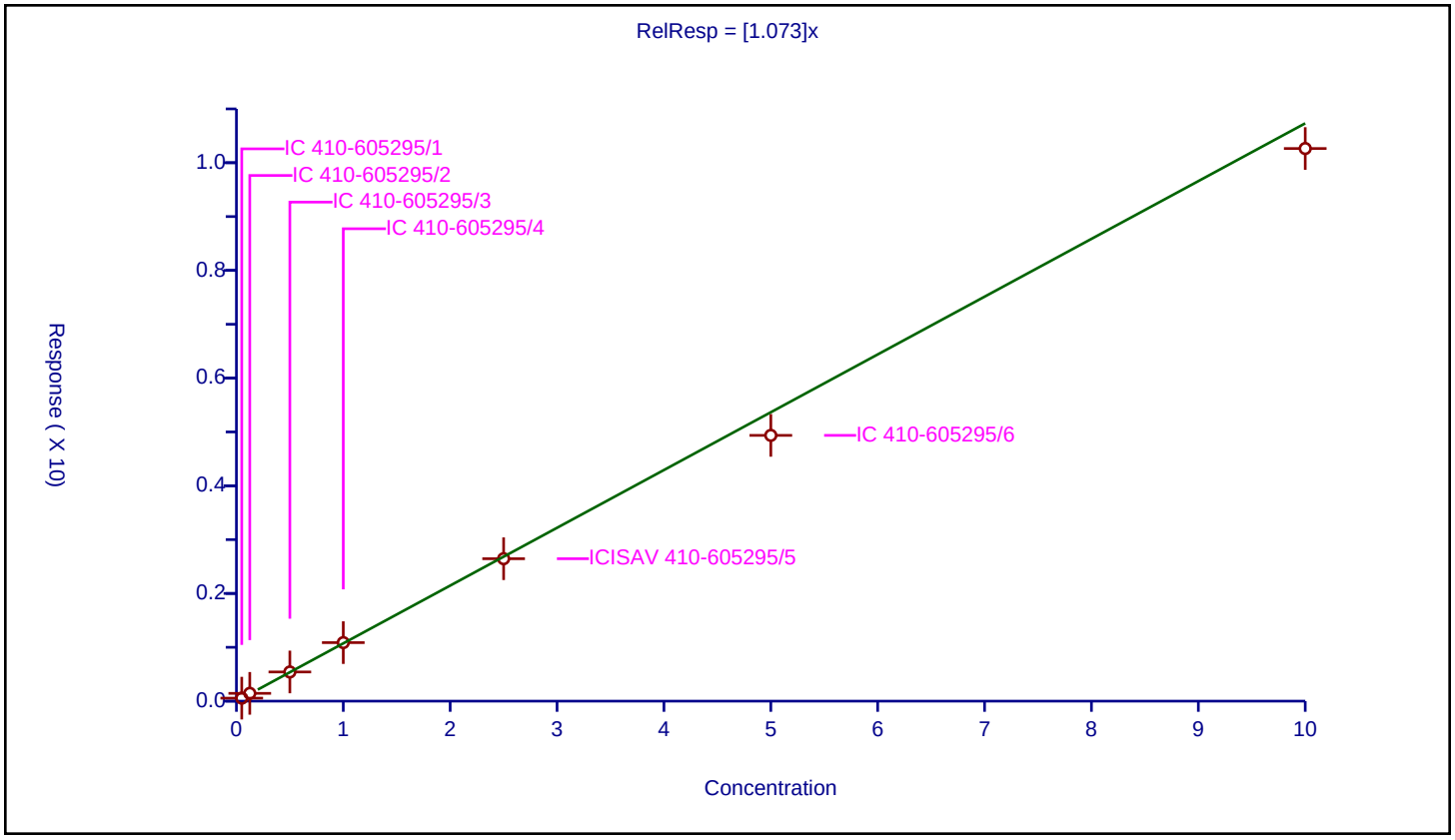
Curve Coefficients

Intercept:	0
Slope:	1.073

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.055553	2.0	327577.0	1.111067	Y
2	IC 410-605295/2	0.125	0.144778	2.0	322909.0	1.158221	Y
3	IC 410-605295/3	0.5	0.541876	2.0	325864.0	1.083753	Y
4	IC 410-605295/4	1.0	1.087255	2.0	324669.0	1.087255	Y
5	ICISAV 410-605295/5	2.5	2.645504	2.0	334266.0	1.058202	Y
6	IC 410-605295/6	5.0	4.936195	2.0	332843.0	0.987239	Y
7	IC 410-605295/7	10.0	10.263881	2.0	328587.0	1.026388	Y



Calibration / Perfluorooctadecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

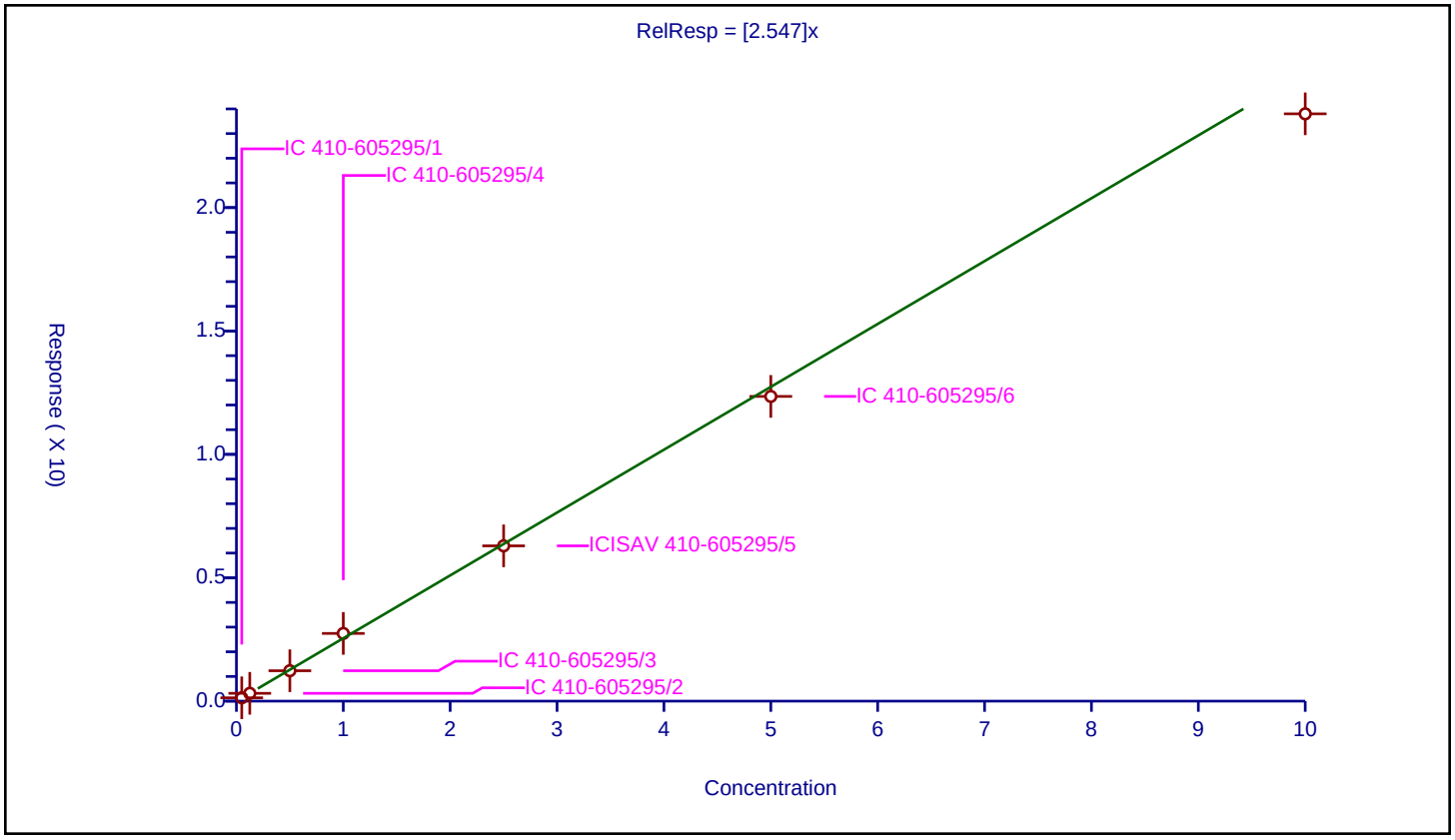
Curve Coefficients

Intercept:	0
Slope:	2.547

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-605295/1	0.05	0.135921	2.0	795876.0	2.718413	Y
2	IC 410-605295/2	0.125	0.317043	2.0	713746.0	2.536342	Y
3	IC 410-605295/3	0.5	1.232513	2.0	781420.0	2.465025	Y
4	IC 410-605295/4	1.0	2.744558	2.0	717373.0	2.744558	Y
5	ICISAV 410-605295/5	2.5	6.292588	2.0	787887.0	2.517035	Y
6	IC 410-605295/6	5.0	12.348567	2.0	740742.0	2.469713	Y
7	IC 410-605295/7	10.0	23.800358	2.0	691148.0	2.380036	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: ICV 410-605295/10 Calibration Date: 02/12/2025 14:47

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB12-CAL-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9690	0.9679		6.24	6.25	-0.1	30.0
Perfluorobutanoic acid	AveID	0.8819	0.8866		2.51	2.50	0.5	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.732	1.755		1.27	1.25	1.3	30.0
3:3 FTCA	AveID	0.0931	0.0943		2.53	2.50	1.4	30.0
Perfluoropentanoic acid	AveID	1.502	1.610		1.34	1.25	7.2	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.586	1.708		1.35	1.25	7.7	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.487	1.303		2.05	2.34	-12.4	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.8118	0.7936		1.22	1.25	-2.2	30.0
Perfluorohexanoic acid	AveID	0.9309	0.9867		1.32	1.25	6.0	30.0
5:3 FTCA	AveID	0.1694	0.1654		6.10	6.25	-2.4	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.036	1.081		1.30	1.25	4.4	30.0
Perfluorobutanesulfonic acid	AveID	0.9838	1.016		1.15	1.11	3.3	30.0
HFPO-DA	AveID	0.999	1.076		1.01	0.938	7.8	30.0
PFEESA	AveID	2.736	2.620		1.07	1.11	-4.2	30.0
Perfluoroheptanoic acid	AveID	0.9533	1.007		1.32	1.25	5.7	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.907	1.988		1.23	1.18	4.2	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	1.057		1.26	1.18	7.3	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.603	1.553		2.30	2.37	-3.1	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	L2ID		1.938		1.01	1.22	-17.1	30.0
Perfluorooctanoic acid	L2ID		0.8305		1.30	1.25	3.6	30.0
7:3 FTCA	AveID	0.1977	0.1818		5.75	6.25	-8.0	30.0
Perfluorohexanesulfonic acid	AveID	0.8258	0.7982		1.10	1.14	-3.3	30.0
Perfluorononanoic acid	AveID	0.8222	0.8164		1.24	1.25	-0.7	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	1.392	1.428		2.46	2.40	2.6	30.0
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	AveID	0.3244	0.3601		1.28	1.16	11.0	30.0
Perfluoroheptanesulfonic acid	AveID	1.064	1.127		1.26	1.19	5.9	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.213	1.173		1.21	1.25	-3.2	30.0
NMeFOSAA	AveID	1.004	0.8701		1.08	1.25	-13.3	30.0
Perfluorodecanoic acid	AveID	0.8618	0.8701		1.26	1.25	1.0	30.0
NEtFOSAA	L2ID		0.8371		1.17	1.25	-6.5	30.0
Perfluorooctanesulfonic acid	AveID	1.272	1.187		1.08	1.16	-6.7	30.0
Perfluoroundecanoic acid	AveID	0.8044	0.8391		1.30	1.25	4.3	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.220	1.275		1.22	1.17	4.5	30.0
Perfluorononanesulfonic acid	AveID	0.8702	0.8882		1.23	1.20	2.1	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: ICV 410-605295/10 Calibration Date: 02/12/2025 14:47

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB12-CAL-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorododecanoic acid	AveID	0.9366	0.9560		1.28	1.25	2.1	30.0
Perfluorodecanesulfonic acid	AveID	0.9300	0.9072		1.18	1.21	-2.4	30.0
Perfluorooctanesulfonamide	AveID	0.9022	0.9216		1.28	1.25	2.2	30.0
Perfluorotridecanoic acid	AveID	1.144	1.187		1.30	1.25	3.7	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.151	1.134		1.16	1.18	-1.4	30.0
Perfluorotetradecanoic acid	AveID	0.1752	0.1850		1.32	1.25	5.6	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.026	0.9514		1.12	1.21	-7.2	30.0
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.842	1.905		6.46	6.25	3.4	30.0
NMeFOSA	AveID	1.039	1.083		1.30	1.25	4.2	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	1.825	1.888		6.47	6.25	3.5	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	1.073	1.118		1.30	1.25	4.2	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	2.547	2.468		1.21	1.25	-3.1	30.0
13C3 PFPrA	Ave	0.6389	0.6047		1.89	2.00	-5.4	30.0
13C4 PFBA	Ave	1.068	1.052		1.97	2.00	-1.5	30.0
13C5 PFPeA	Ave	0.6101	0.5688		1.86	2.00	-6.8	30.0
M2-4:2 FTS	Ave	0.1577	0.1653		4.92	4.69	4.8	30.0
13C5 PFHxA	Ave	0.8841	0.8791		1.99	2.00	-0.6	30.0
13C3 PFBS	Ave	1.096	1.206		2.05	1.86	10.0	30.0
13C3 HFPO-DA	Ave	1.093	1.050		1.92	2.00	-3.9	30.0
13C4 PFHpA	Ave	0.8968	0.8795		1.96	2.00	-1.9	30.0
M2-6:2 FTS	Ave	0.1652	0.1666		4.80	4.76	0.9	30.0
13C8 PFOA	Ave	1.067	1.050		1.97	2.00	-1.6	30.0
13C3 PFHxS	Ave	1.025	1.081		2.00	1.90	5.4	30.0
13C9 PFNA	Ave	1.024	1.052		2.05	2.00	2.7	30.0
M2-8:2 FTS	Ave	0.1424	0.1431		4.82	4.80	0.5	30.0
d3-NMeFOSAA	Ave	0.3484	0.3870		5.55	5.00	11.1	30.0
13C6 PFDA	Ave	1.054	1.057		2.00	2.00	0.2	30.0
d5-NEtFOSAA	Ave	0.2858	0.2936		5.14	5.00	2.7	30.0
13C8 PFOS	Ave	1.024	1.055		1.97	1.91	3.0	30.0
13C7 PFUnA	Ave	0.9841	1.029		2.09	2.00	4.6	30.0
13C2 PFDoA	Ave	0.8279	0.8397		2.03	2.00	1.4	30.0
13C8 FOSA	Ave	1.220	1.265		2.07	2.00	3.7	30.0
13C2 PFTeDA	Ave	0.5852	0.5965		2.04	2.00	1.9	30.0
d7-N-MeFOSE-M	Ave	0.1897	0.1935		5.10	5.00	2.0	30.0
d3-NMePFOSA	Ave	0.3203	0.3056		1.91	2.00	-4.6	30.0
d9-N-EtFOSE-M	Ave	0.2468	0.2494		5.05	5.00	1.1	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: ICV 410-605295/10 Calibration Date: 02/12/2025 14:47

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB12-CAL-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d5-NEtPFOSA	Ave	0.3610	0.3561		1.97	2.00	-1.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-14.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Feb-2025 14:47:41 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist:

Method: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 13-Feb-2025 10:41:50 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: BWX7 Date: 13-Feb-2025 09:08:15
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.029	2.054	-0.025	1.004	2328714	6.24			9603	
D 1 13C3PFPrA										
166.00 > 121.00	2.021	2.054	-0.033	0.483	769896	1.89		94.6	15833	
5 PFBA										
212.80 > 168.90	4.188	4.181	0.007	1.000	1484569	2.51			15483	
D 3 13C4-PFBA										
216.80 > 171.90	4.188	4.181	0.007	1.000	1339578	1.97		98.5	70538	
* 4 13C3PFBA										
216.00 > 172.00	4.188	4.181	0.007		1273219	2.00			37896	
6 PFMPA										
229.00 > 84.90	4.514	4.504	0.010	0.935	800658	1.27			39477	
7 3:3 FTCA										
241.00 > 177.00	4.526	4.516	0.010	0.937	86086	2.53	Target=1.15		5710	
241.00 > 117.00	4.526	4.516	0.010	0.937	77659		1.11(0.58-1.73)		5188	
D 8 13C5 PFPeA										
268.30 > 223.00	4.830	4.832	-0.002	0.914	729969	1.86		93.2	48658	
9 PFPA										
263.00 > 219.00	4.830	4.832	-0.002	1.000	734468	1.34			36379	
10 PFMBA										
279.00 > 85.10	4.985	4.975	0.010	1.032	779293	1.35			50840	
12 4:2FTS										
327.10 > 307.00	5.100	5.102	-0.002	1.000	237372	2.05	Target=1.45		14794	
327.10 > 80.90	5.100	5.102	-0.002	1.000	181763		1.31(0.73-2.18)		11030	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.100	5.102	-0.002	0.806	366031	4.92		105	22659	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.243	5.244	-0.001	0.992	559537	1.22	Target=1.37		32732	
295.00 > 84.90	5.243	5.244	-0.001	0.992	411133		1.36(0.68-2.05)		23963	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.283	0.0		3208383	5.00			190516	
17 PFHxA										
313.00 > 269.00	5.283	5.283	0.0	1.000	695743	1.32	Target=10.68		30887	
313.00 > 118.90	5.283	5.283	0.0	1.000	62293		11.17(5.34-16.02)		3689	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.283	0.0	1.000	1128156	1.99		99.4	66975	
20 5:3 FTCA										
341.00 > 237.10	5.357	5.357	0.0	1.014	583096	6.10	Target=0.98		24344	
341.00 > 217.00	5.357	5.357	0.0	1.014	593586		0.98(0.49-1.47)		33035	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.414	0.0	0.855	1061721	2.05		110	57517	
19 PFBS										
298.70 > 79.90	5.414	5.414	0.0	1.000	642497	1.15	Target=2.96		34955	
298.70 > 98.80	5.414	5.414	0.0	1.000	202008		3.18(1.48-4.44)		10931	
25 FBSA										
297.90 > 78.00	5.414	5.414	0.0	1.000	769623	1.30			40906	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.471	5.470	0.001	1.035	1347841	1.92		96.1	73244	
22 HFPO-DA										
284.90 > 168.90	5.471	5.470	0.001	1.000	679892	1.01	Target=2.37		27736	
284.90 > 184.90	5.471	5.470	0.001	1.000	258901		2.63(1.19-3.56)		10517	
24 PFEESA										
314.80 > 134.90	5.653	5.653	0.0	1.070	1643901	1.07	Target=11.81		90146	
314.80 > 82.90	5.653	5.653	0.0	1.070	148967		11.04(5.90-17.71)		8154	
28 PFHpA										
363.10 > 319.00	5.709	5.708	0.001	1.000	710662	1.32	Target=2.56		30349	
363.10 > 169.00	5.709	5.708	0.001	1.000	275831		2.58(1.28-3.85)		15666	
D 26 13C4 PFHpA										
367.10 > 322.00	5.709	5.708	0.001	1.081	1128705	1.96		98.1	64591	
30 ADONA										
376.90 > 250.90	5.871	5.858	0.013	1.073	1583876	1.23	Target=1.81		4257	
376.90 > 84.80	5.871	5.858	0.013	1.073	944271		1.68(0.90-2.71)		58559	
29 PFPeS										
349.10 > 79.90	5.893	5.893	0.0	0.931	633974	1.26	Target=3.25		40137	
349.10 > 98.90	5.893	5.893	0.0	0.931	195551		3.24(1.63-4.88)		12476	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.916	5.916	0.0	0.934	374530	4.80		101	24458	
32 6:2FTS										
427.10 > 407.00	5.916	5.916	0.0	1.000	289612	2.30	Target=1.57		18597	
427.10 > 80.90	5.916	5.916	0.0	1.000	192126		1.51(0.78-2.35)		12454	
33 BTS										
280.00 > 147.00	6.035	6.034	0.001	0.953	1210093	1.01			77346	
D 34 13C8 PFOA										
421.10 > 376.00	6.122	6.122	0.0	1.000	1520716	1.97		98.4	70530	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.122	6.122	0.0	1.000	789328	1.30	Target=2.35		25502	
413.00 > 169.00	6.122	6.122	0.0	1.000	325179		2.43(1.18-3.53)		54009	
* 35 13C4 PFOA										
417.10 > 372.00	6.122	6.122	0.0		3620514	5.00			656599	
39 7:3 FTCA										
441.00 > 316.90	6.195	6.194	0.001	1.173	640954	5.75	Target=0.90		28987	
441.00 > 336.90	6.195	6.194	0.001	1.173	746041		0.86(0.45-1.35)		45098	
D 38 13C3 PFHxS										
402.10 > 79.90	6.331	6.330	0.001	1.000	967540	2.00		105	56440	
* 37 18O2 PFHxS										
403.00 > 83.90	6.331	6.330	0.001		893538	1.89			52135	
40 PFHxS										
398.70 > 79.90	6.345	6.343	0.002	1.002	464374	1.10	Target=3.23		30747	
398.70 > 98.90	6.345	6.343	0.002	1.002	153632		3.02(1.62-4.85)		16543	
43 PFNA										
463.00 > 419.00	6.532	6.530	0.002	1.002	686025	1.24	Target=2.70		66092	
463.00 > 219.00	6.532	6.530	0.002	1.002	257039		2.67(1.35-4.05)		39857	
* 42 13C5 PFNA										
468.00 > 423.00	6.519	6.530	-0.011		1278528	2.00			56063	
D 41 13C9 PFNA										
472.10 > 427.00	6.519	6.530	-0.011	1.000	1344568	2.05		103	59068	
46 8:2FTS										
527.10 > 507.00	6.706	6.715	-0.009	1.000	231146	2.46	Target=1.51		14208	
527.10 > 80.80	6.706	6.715	-0.009	1.000	148043		1.56(0.75-2.26)		8950	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.706	6.715	-0.009	1.059	324365	4.82		100	20040	
44 PFECHS										
461.00 > 381.00	6.729	6.727	0.002	1.063	212235	1.28	Target=0.29		12864	
461.00 > 99.00	6.729	6.727	0.002	1.063	688267		0.31(0.15-0.44)		41988	
47 PFHpS										
449.00 > 79.90	6.763	6.773	-0.010	0.941	622364	1.26	Target=3.66		38547	
449.00 > 98.80	6.763	6.773	-0.010	0.941	174337		3.57(1.83-5.49)		10805	
48 FHxSA										
397.90 > 78.00	6.786	6.784	0.002	1.072	748497	1.21			43823	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.870	6.880	-0.010	0.956	849439	5.55		111	49574	
50 NMeFOSAA										
570.10 > 419.00	6.883	6.880	0.003	1.002	184776	1.08	Target=1.83		39149	
570.10 > 483.00	6.870	6.880	-0.010	1.000	117512		1.57(0.91-2.74)		22148	
53 PFDA										
512.90 > 469.00	6.934	6.931	0.003	1.000	705661	1.26	Target=5.26		39665	
512.90 > 219.00	6.934	6.931	0.003	1.000	145377		4.85(2.63-7.89)		8262	
* 52 13C2 PFDA										
515.10 > 470.10	6.934	6.931	0.003		1227699	2.00			68861	
D 51 13C6 PFDA										
519.10 > 474.10	6.934	6.931	0.003	1.000	1297583	2.00		100	54392	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.053	0.004	0.982	644554	5.14		103	34424	
55 NEtFOSAA										
584.20 > 419.10	7.071	7.067	0.004	1.002	134883	1.17	Target=1.37		26828	
584.20 > 526.00	7.057	7.067	-0.010	1.000	106386		1.27(0.69-2.06)		18843	
D 56 13C8 PFOS										
507.10 > 79.90	7.189	7.186	0.003	1.000	885316	1.97		103	19301	
* 57 13C4 PFOS										
502.80 > 79.90	7.189	7.186	0.003		839433	1.91			48688	
58 PFOS										
498.90 > 79.90	7.189	7.198	-0.009	1.000	638755	1.08	Target=4.45		119467	
498.90 > 98.80	7.189	7.198	-0.009	1.000	151150		4.23(2.23-6.68)		32524	
D 59 13C7 PFUnA										
570.00 > 525.10	7.345	7.353	-0.008	1.059	1263740	2.09		105	47879	
60 PFUnA										
563.10 > 519.00	7.345	7.353	-0.008	1.000	662744	1.30	Target=6.24		31666	
563.10 > 269.10	7.345	7.353	-0.008	1.000	108090		6.13(3.12-9.36)		6858	
61 9ClFOS										
530.80 > 351.00	7.507	7.514	-0.007	1.372	1003472	1.22	Target=3.02		69870	
532.80 > 353.00	7.507	7.514	-0.007	1.372	329667		3.04(1.51-4.54)		22772	
62 PFNS										
548.80 > 79.90	7.600	7.607	-0.007	1.057	494570	1.23	Target=3.66		35148	
548.80 > 98.80	7.600	7.607	-0.007	1.057	130219		3.80(1.83-5.49)		9346	
D 82 PFDoA										
615.10 > 570.00	7.754	7.762	-0.008	1.118	1030859	2.03		101	69885	
63 PFDoA										
613.10 > 569.00	7.754	7.762	-0.008	1.000	615962	1.28	Target=6.35		42103	
613.10 > 319.00	7.754	7.762	-0.008	1.000	99065		6.22(3.17-9.52)		6724	
D 64 13C8 FOSA										
506.10 > 77.80	7.991	7.997	-0.006	1.111	1110661	2.07		104	53496	
66 PFDS										
599.00 > 79.90	7.991	7.997	-0.006	1.111	506193	1.18	Target=3.79		32960	
599.00 > 98.80	7.991	7.997	-0.006	1.111	136890		3.70(1.90-5.69)		8985	
65 PFOSA										
498.10 > 77.90	7.991	7.997	-0.006	1.000	639765	1.28	Target=40.87		112005	
498.10 > 478.00	7.991	7.997	-0.006	1.000	15003		42.64(20.44-61.31)		2711	
67 PFTrDA										
663.00 > 619.00	8.132	8.139	-0.007	0.961	654132	1.30	Target=5.85		38555	
663.00 > 168.90	8.132	8.139	-0.007	0.961	118713		5.51(2.93-8.78)		7025	
68 11ClFOS										
630.90 > 450.90	8.278	8.285	-0.007	1.513	901799	1.16	Target=3.00		49035	
632.90 > 452.90	8.278	8.285	-0.007	1.513	289792		3.11(1.50-4.50)		15674	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.464	8.486	-0.022	1.221	732378	2.04		102	38184	
70 PFTeDA										
713.10 > 168.90	8.464	8.486	-0.022	1.000	84665	1.32	Target=1.17		4431	
713.10 > 219.00	8.464	8.486	-0.022	1.000	75739		1.12(0.58-1.75)		3918	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.642	8.650	-0.008	1.202	534123	1.12	Target=4.47		27658	
699.10 > 98.80	8.642	8.650	-0.008	1.202	125798		4.25(2.23-6.70)		6463	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.774	8.781	-0.007	1.220	424758	5.10		102	11412	
72 N-MeFOSE-M										
616.10 > 58.90	8.803	8.811	-0.008	1.003	1011233	6.46			2875	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.862	8.868	-0.006	1.233	268312	1.91		95.4	11331	
75 NMeFOSA										
511.90 > 219.00	8.875	8.882	-0.007	1.002	181595	1.30	Target=0.74		62273	
511.90 > 169.00	8.875	8.882	-0.007	1.002	246332		0.74(0.37-1.12)		947	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.962	-0.005	1.246	547553	5.05		101	14029	
77 N-EtFOSE-M										
630.00 > 58.90	8.970	8.975	-0.005	1.001	1292026	6.47			1523	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.027	-0.006	1.255	312662	1.97		98.6	19318	
79 N-EtFOSA-M										
526.00 > 219.00	9.034	9.040	-0.006	1.001	218466	1.30	Target=0.80		1684	
526.00 > 169.00	9.034	9.040	-0.006	1.001	267389		0.82(0.40-1.20)		83099	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.156	9.174	-0.018	1.082	1129725	1.21	Target=14.94		38096	
913.00 > 169.00	9.156	9.174	-0.018	1.082	75346		14.99(7.47-22.41)		5118	

QC Flag Legend

Processing Flags

Reagents:

1633_125_ICV_00013 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2025 10:41:52 Chrom Revision: 2.3 12-Feb-2025 13:38:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-14.d

Injection Date: 12-Feb-2025 14:47:41 Instrument ID: 30576

Lims ID: ICV

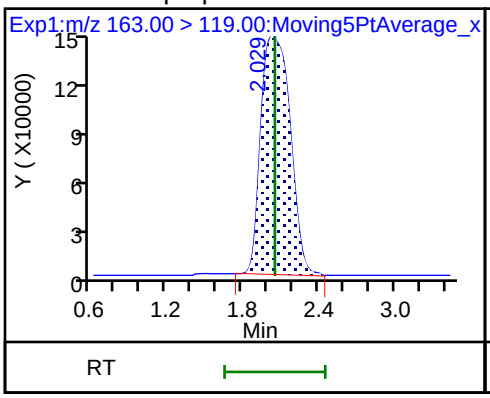
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 10 Worklist Smp#: 10

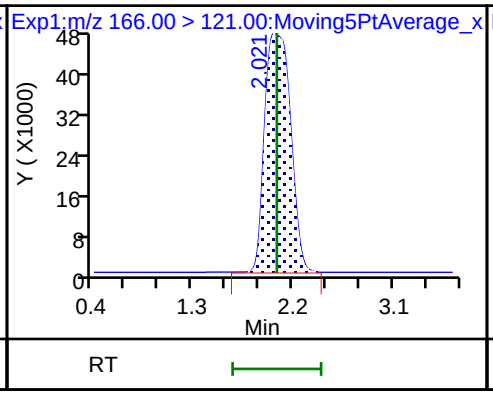
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

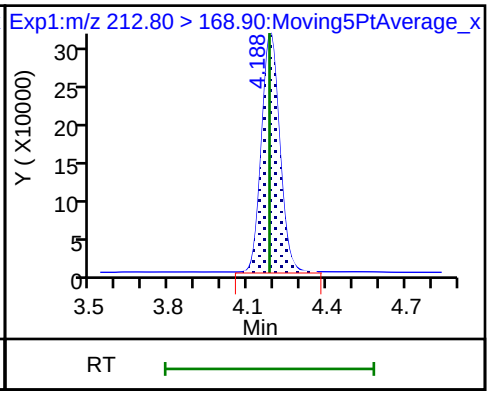
2 Perfluoropropionic acid



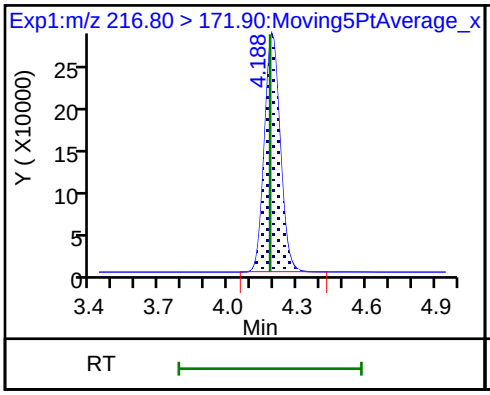
D 1 13C3PFPrA



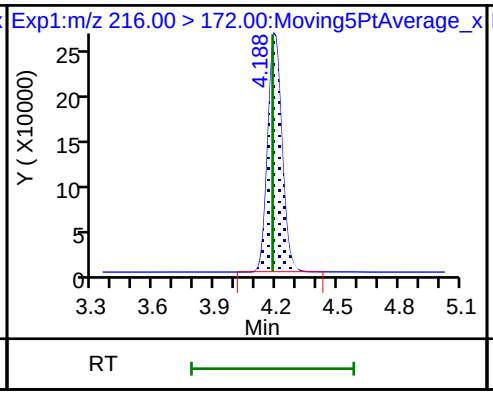
5 PFBA



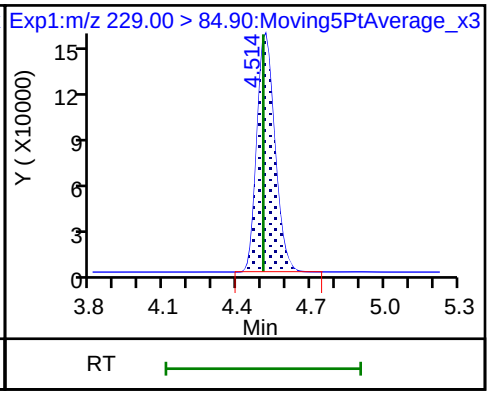
D 3 13C4-PFBA



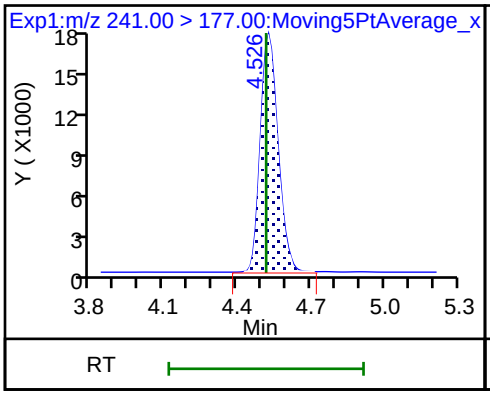
* 4 13C3PFBA



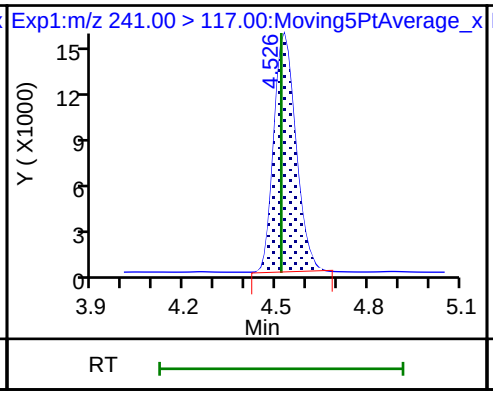
6 PFMPA



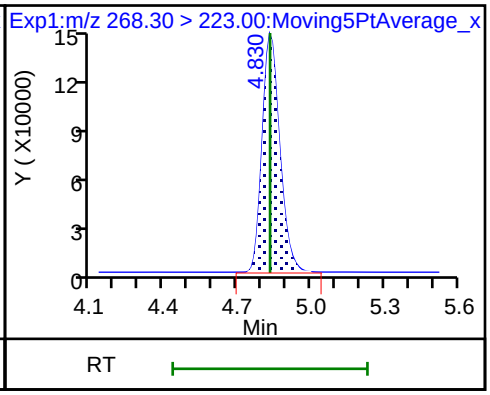
7 3:3 FTCA



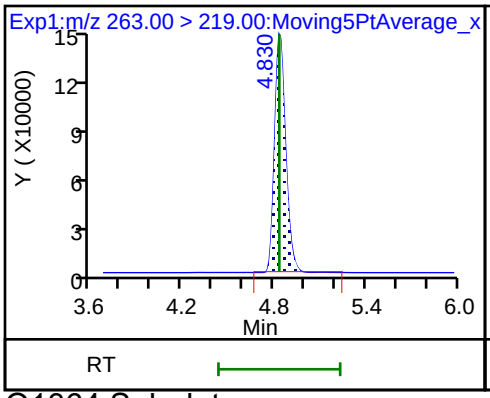
7 3:3 FTCA



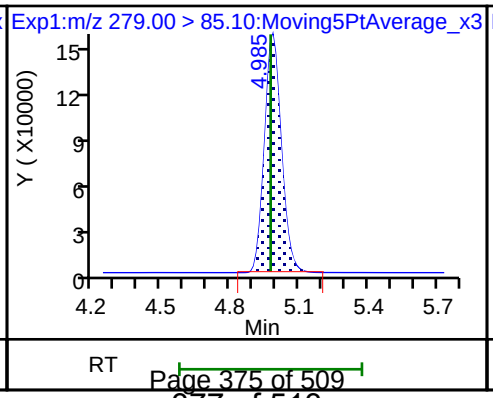
D 8 13C5 PFPeA



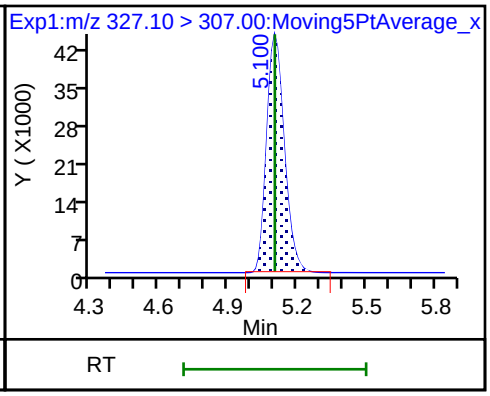
9 PFPA



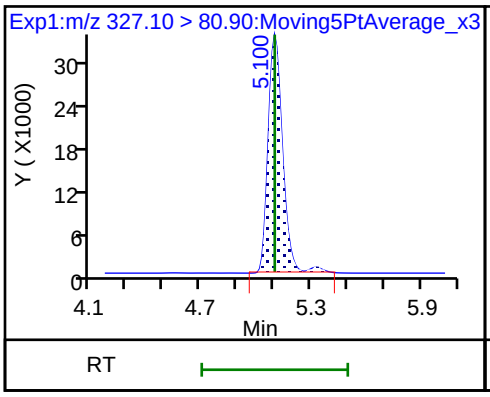
10 PFMBA



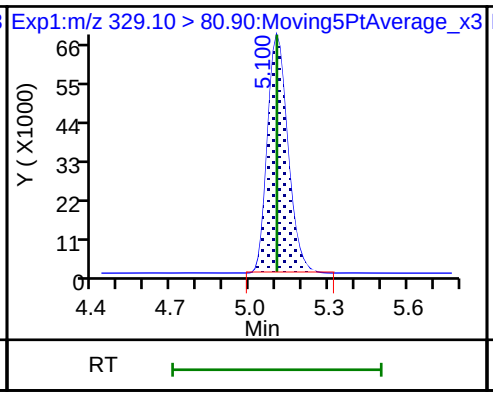
12 4:2FTS



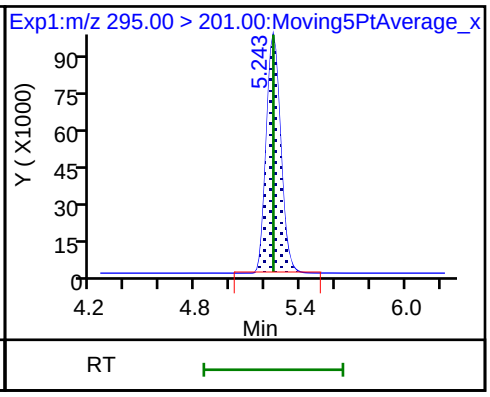
12 4:2FTS



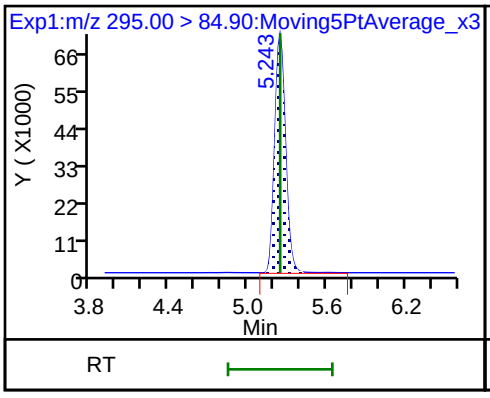
D 11 13C2-4:2FTS



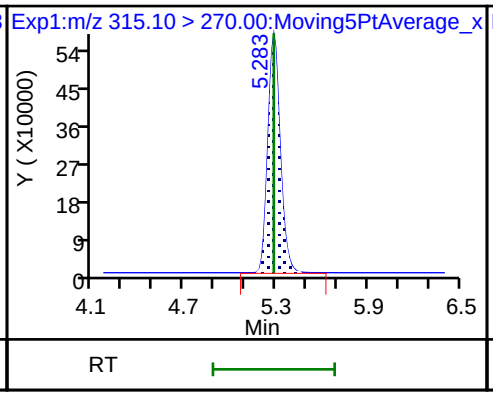
14 NFDHA



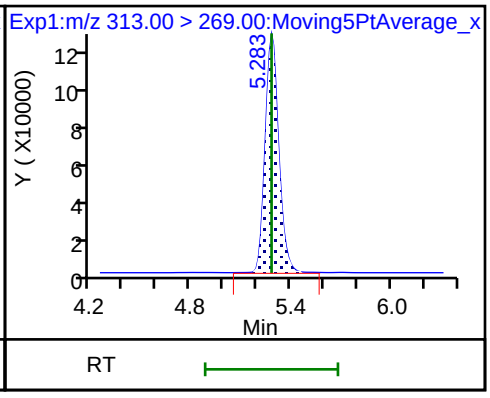
14 NFDHA



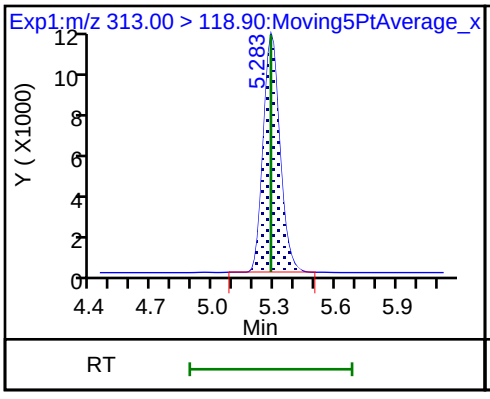
* 16 13C2 PFHxA



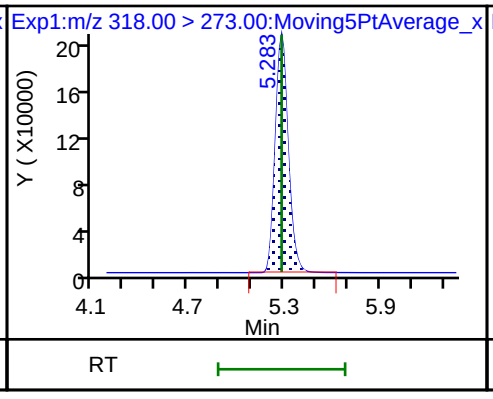
17 PFHxA



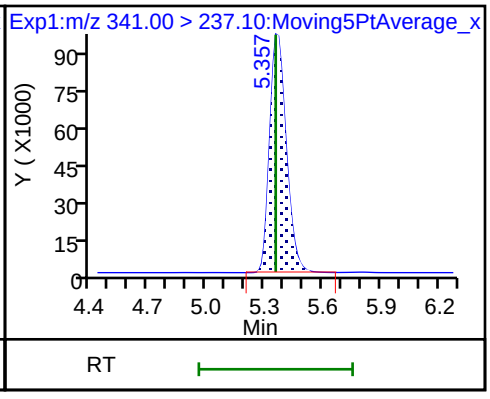
17 PFHxA



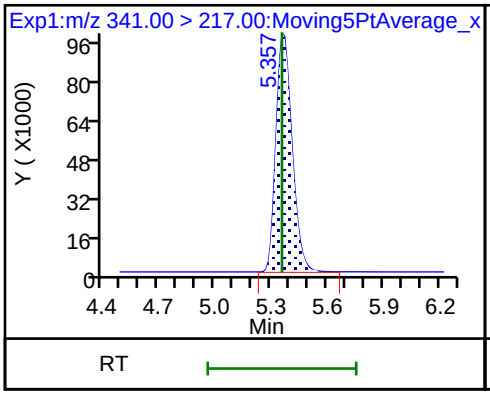
D 15 13C5 PFHxA



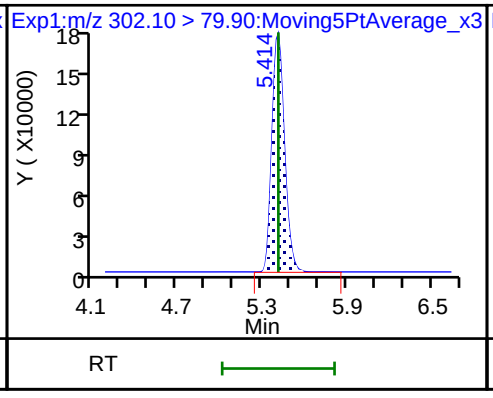
20 5:3 FTCA



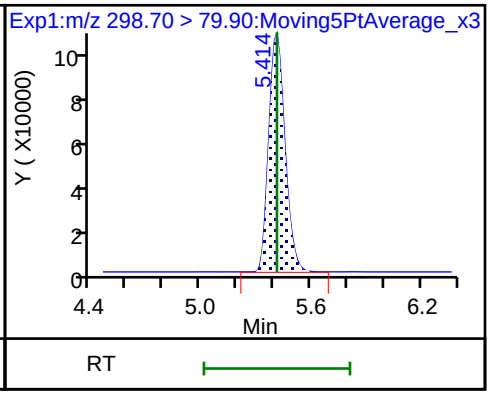
20 5:3 FTCA



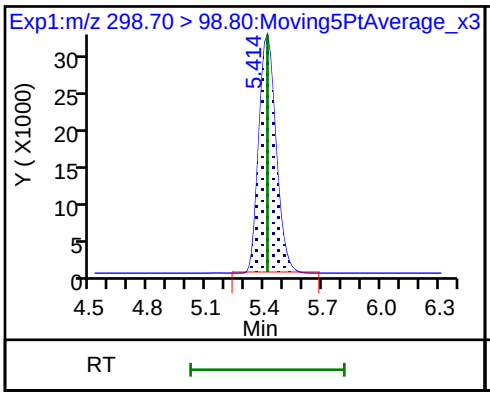
D 18 13C3 PFBS



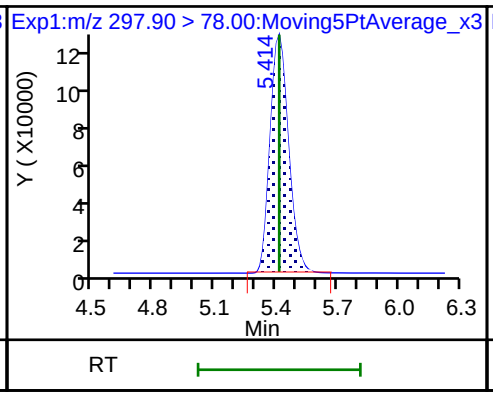
19 PFBS



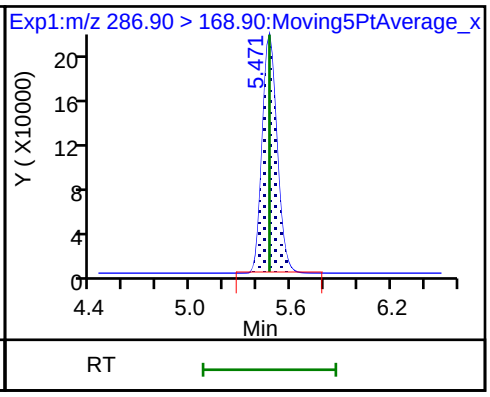
19 PFBS



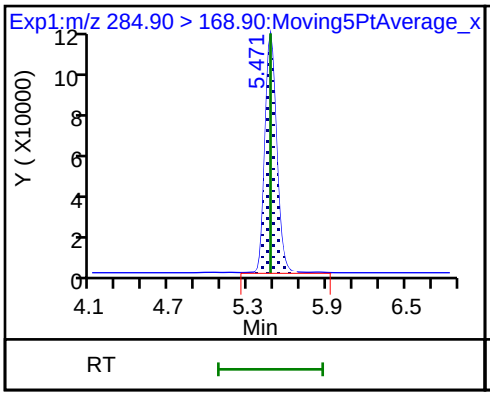
25 FBSA



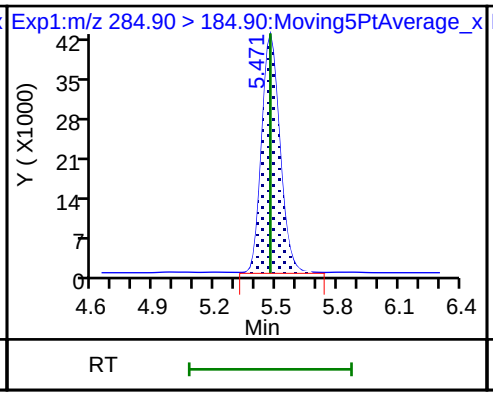
D 21 13C3 HFPO-DA



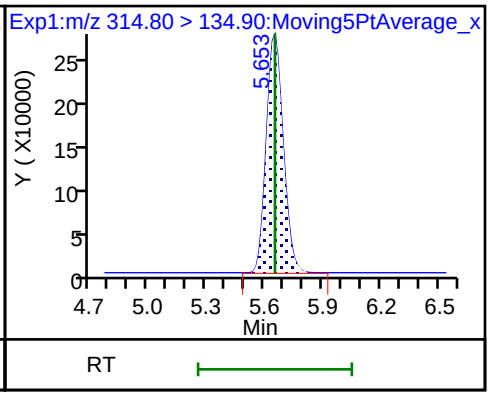
22 HFPO-DA



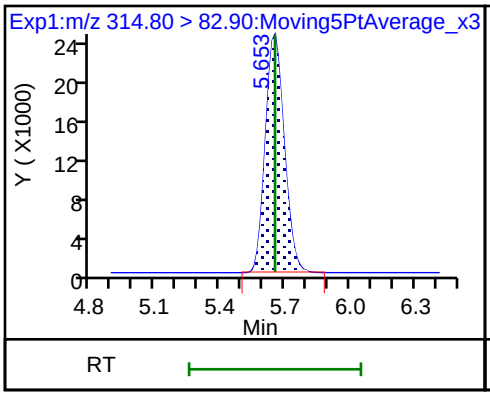
22 HFPO-DA



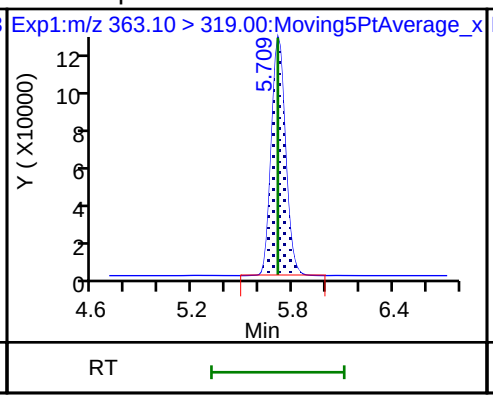
24 PFEESA



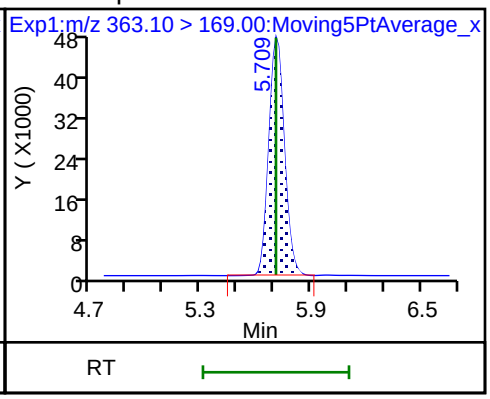
24 PFEESA



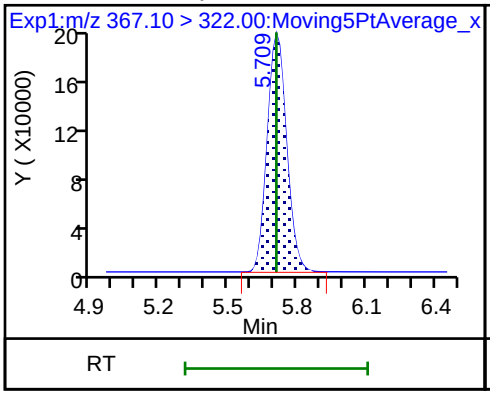
28 PFHpA



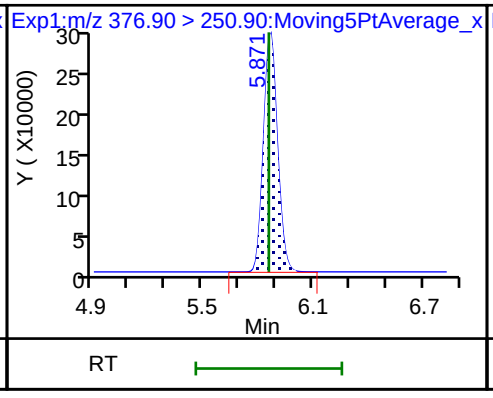
28 PFHpA



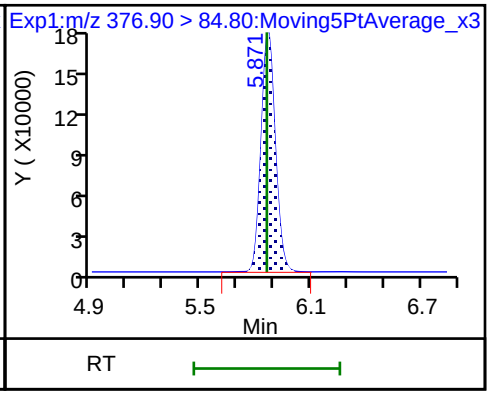
D 26 13C4 PFHpA



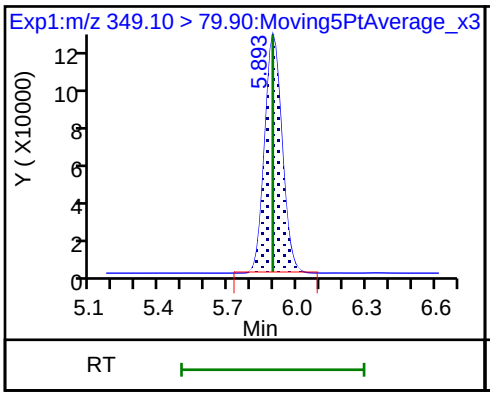
30 ADONA



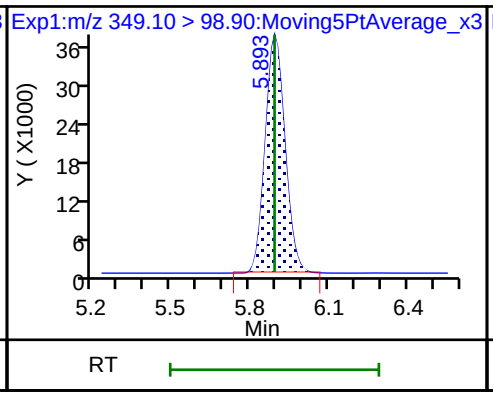
30 ADONA



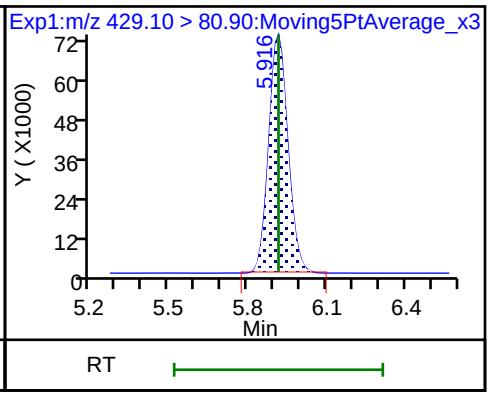
29 PFPeS



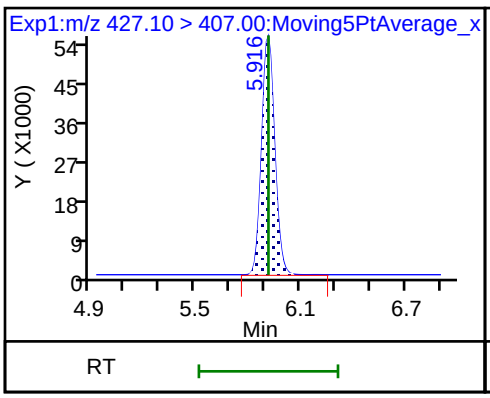
29 PFPeS



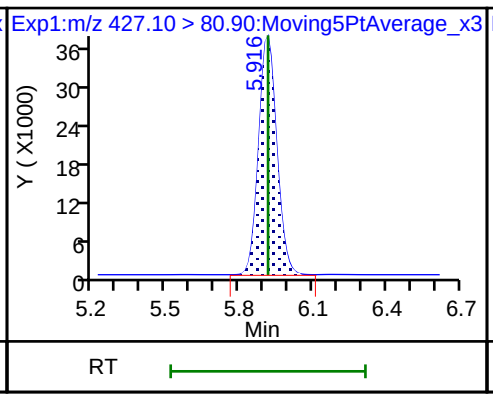
D 31 13C2-6:2FTS



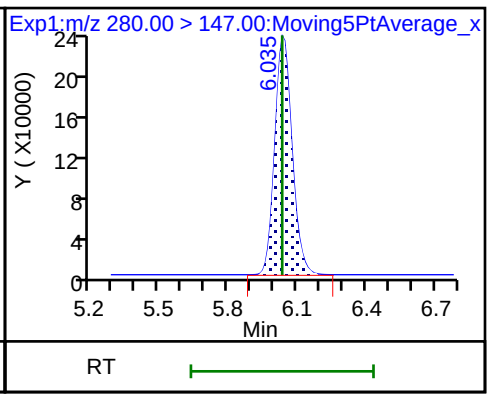
32 6:2FTS



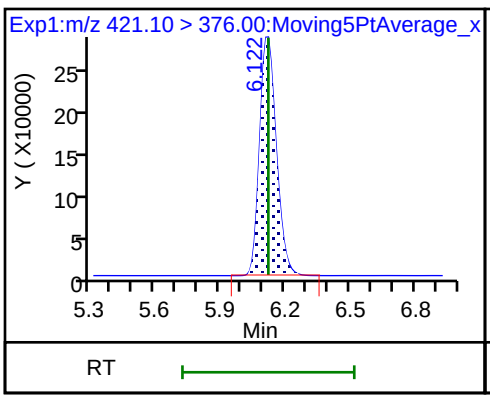
32 6:2FTS



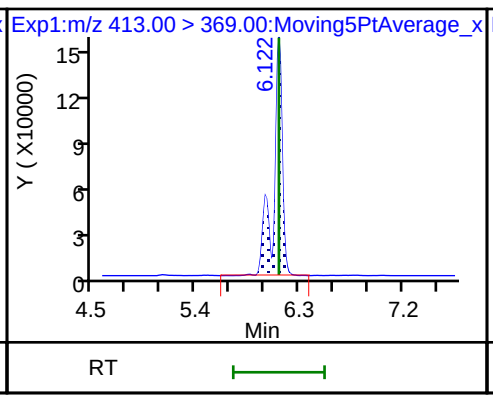
33 BTS



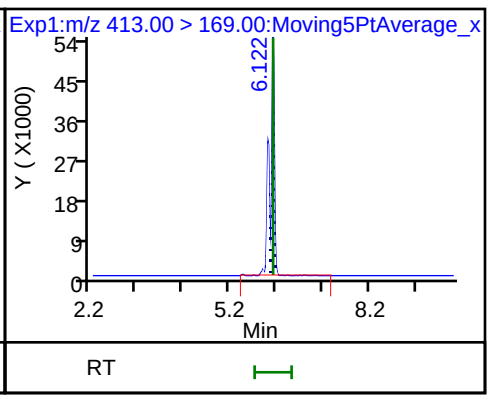
D 34 13C8 PFOA



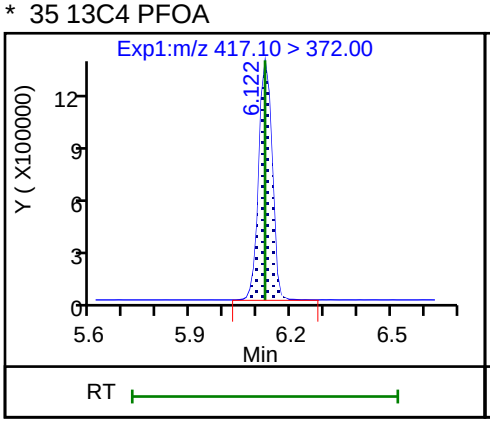
36 PFOA



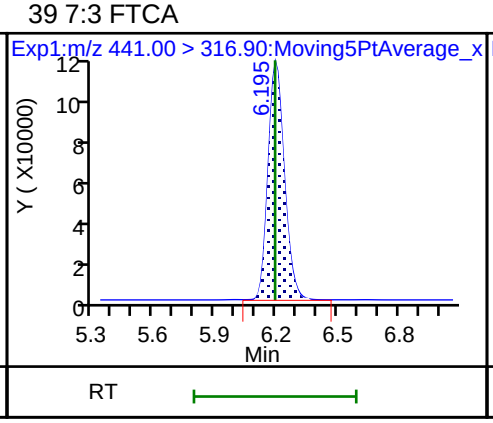
36 PFOA



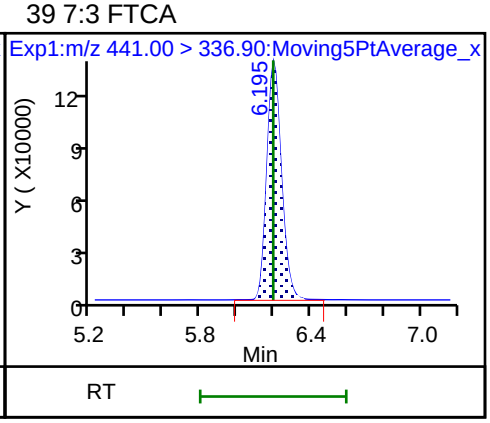
* 35 13C4 PFOA



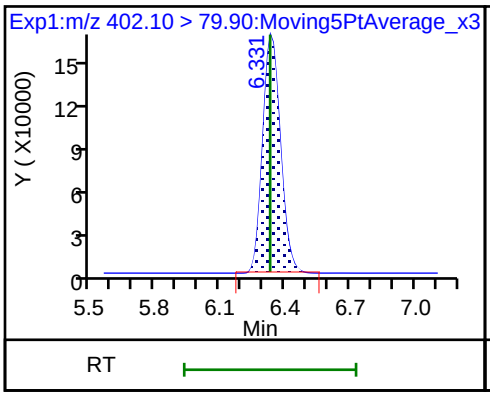
39 7:3 FTCA



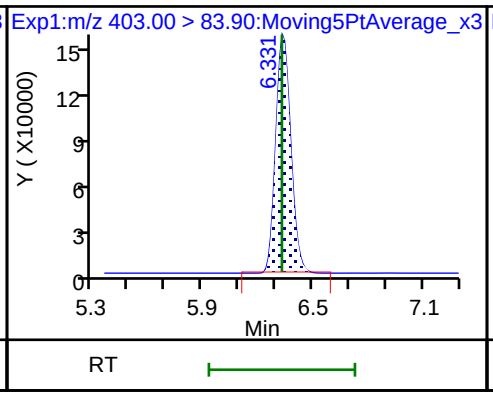
39 7:3 FTCA



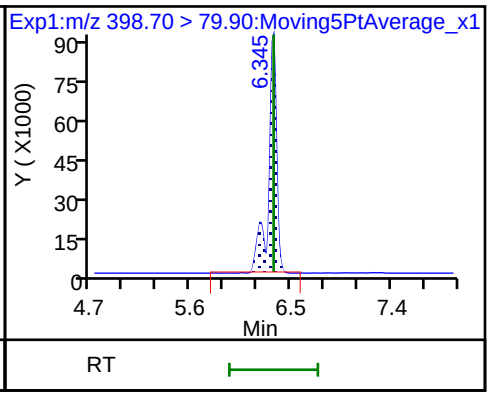
D 38 13C3 PFHxS



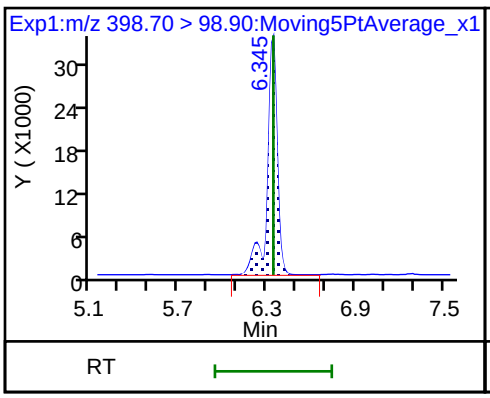
* 37 18O2 PFHxS



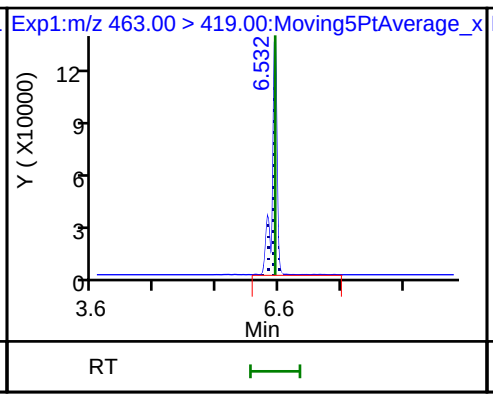
40 PFHxS



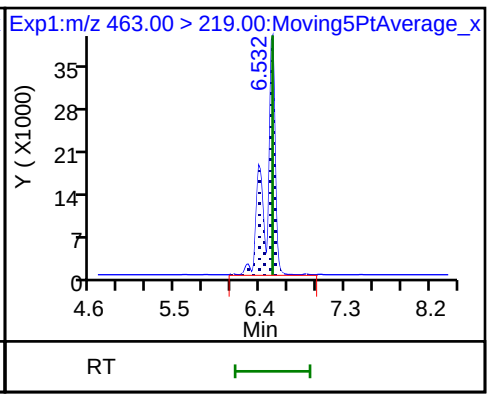
40 PFHxS



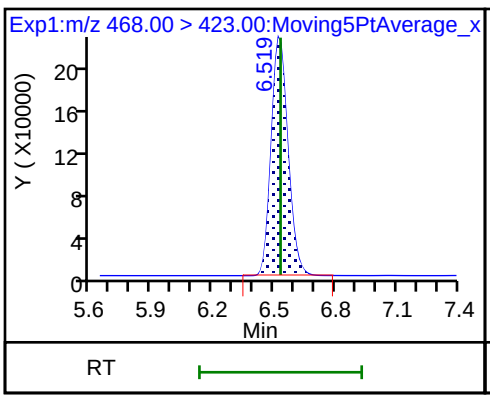
43 PFNA



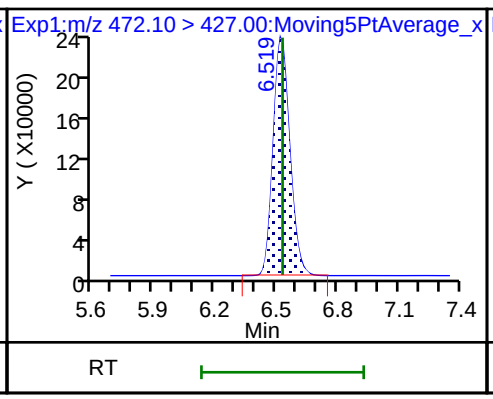
43 PFNA



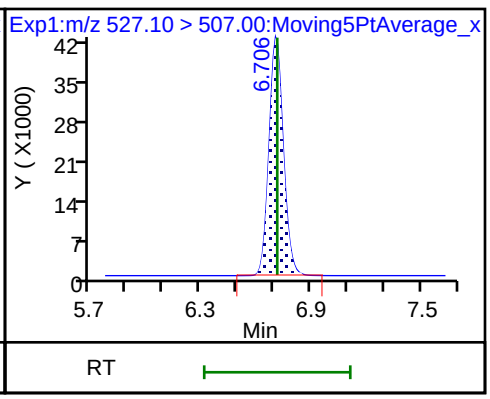
* 42 13C5 PFNA



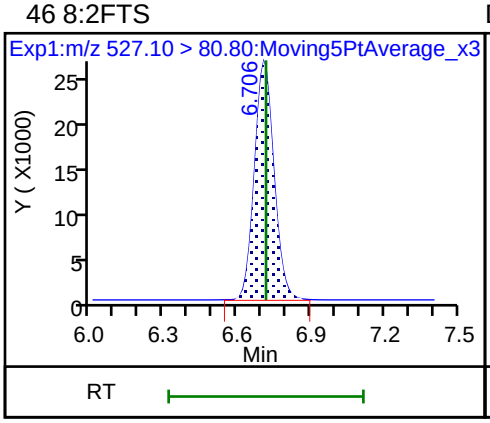
D 41 13C9 PFNA



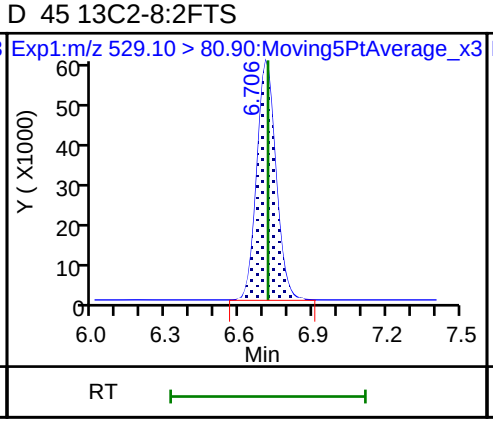
46 8:2FTS



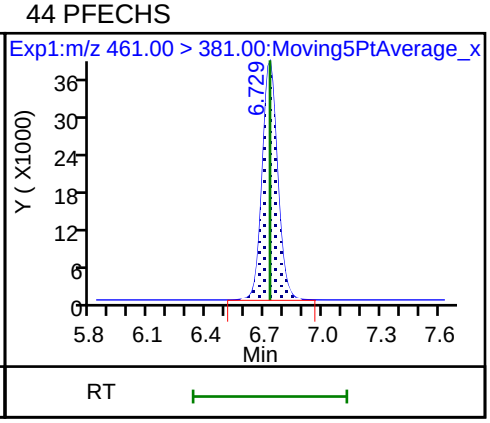
46 8:2FTS



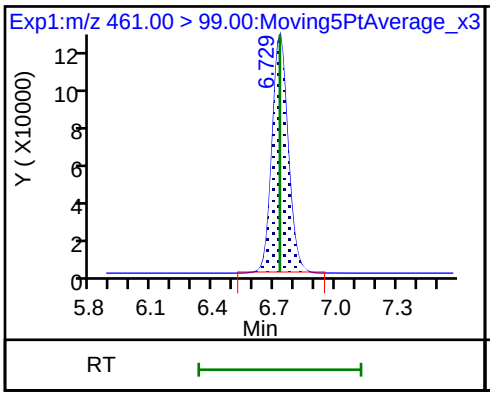
D 45 13C2-8:2FTS



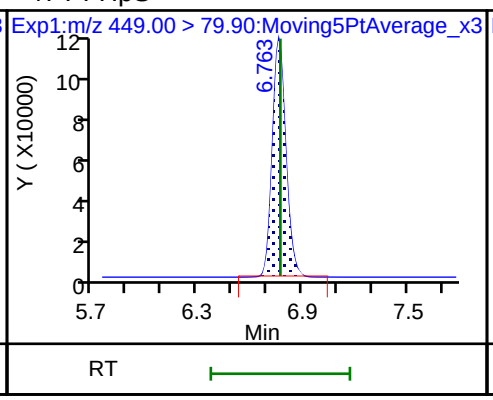
44 PFECHS



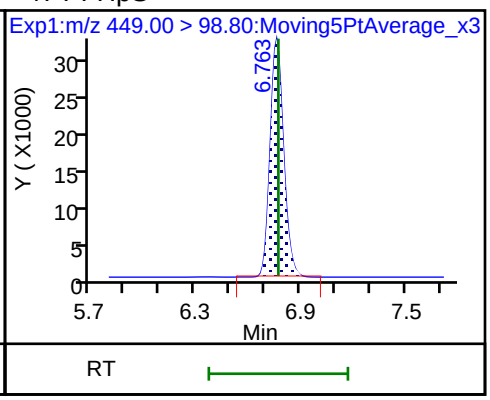
44 PFECHS



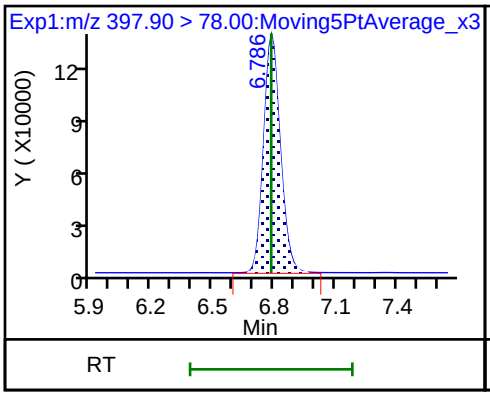
47 PFHpS



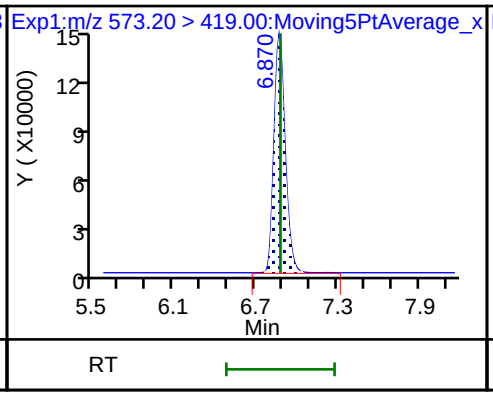
47 PFHpS



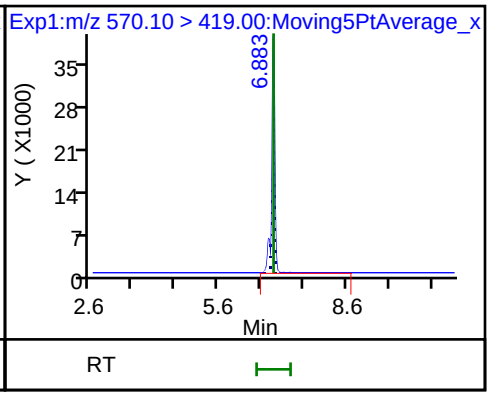
48 FHxSA



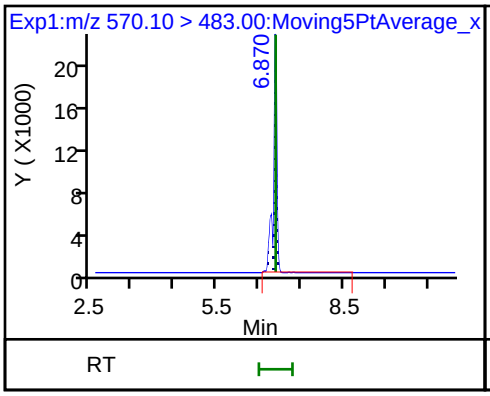
D 49 d3-NMeFOSAA



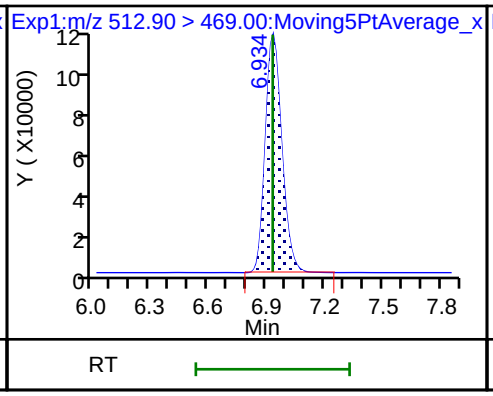
50 NMeFOSAA



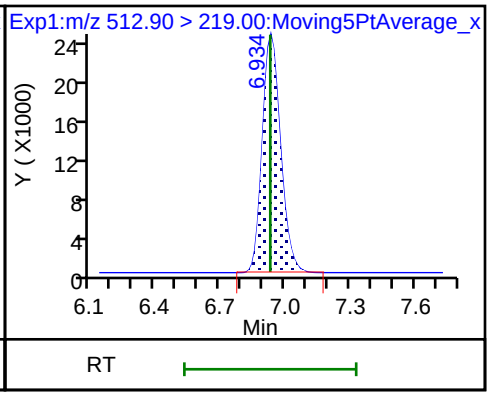
50 NMeFOSAA



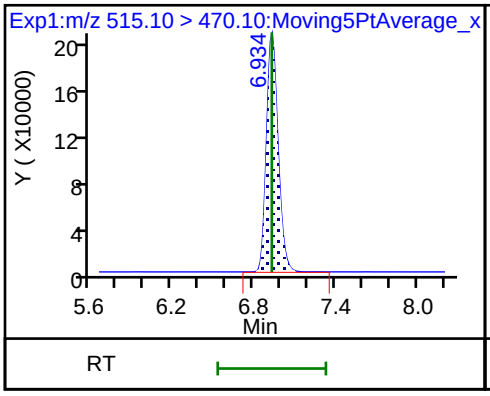
53 PFDA



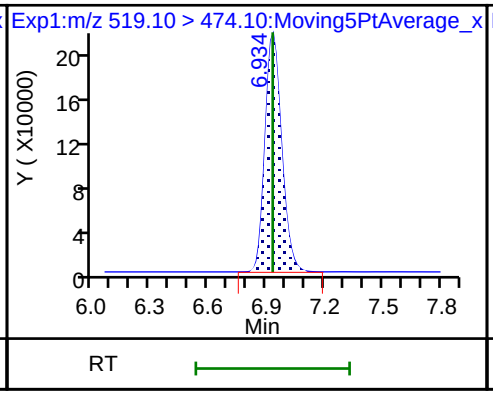
53 PFDA



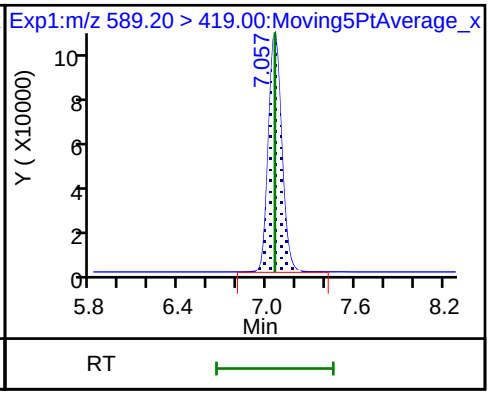
* 52 13C2 PFDA



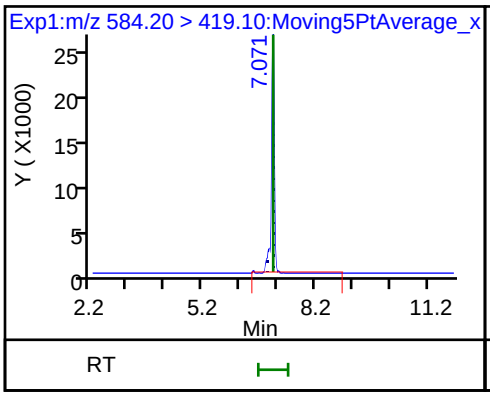
D 51 13C6 PFDA



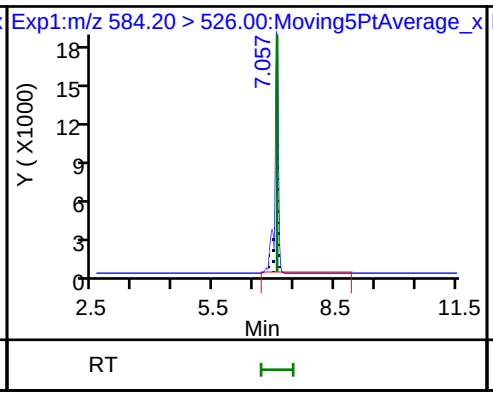
D 54 d5-NEtFOSAA



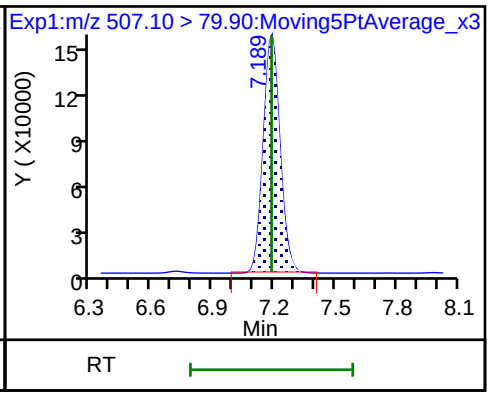
55 NEtFOSAA



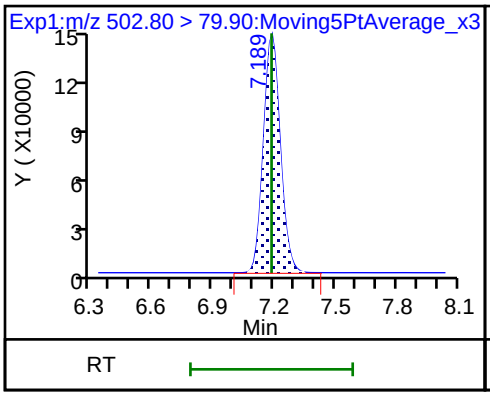
55 NEtFOSAA



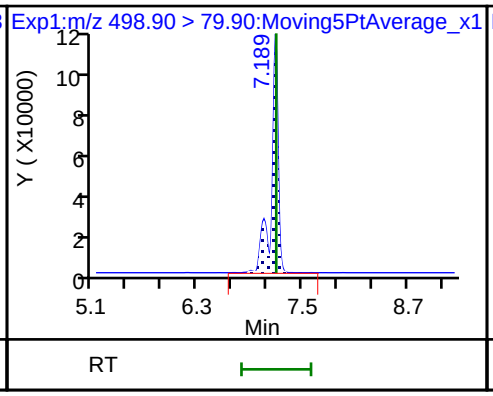
D 56 13C8 PFOS



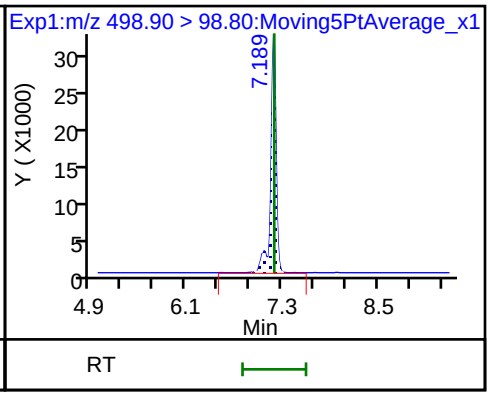
* 57 13C4 PFOS



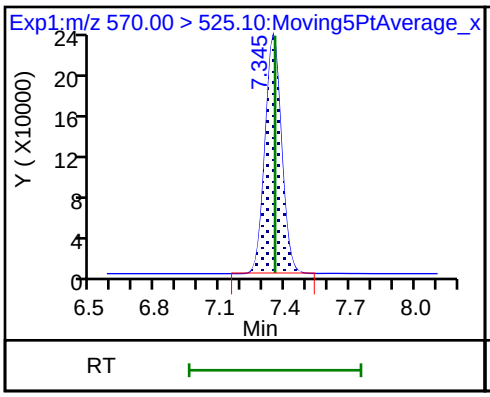
58 PFOS



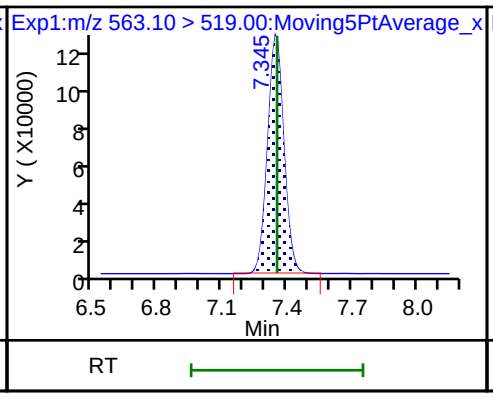
58 PFOS



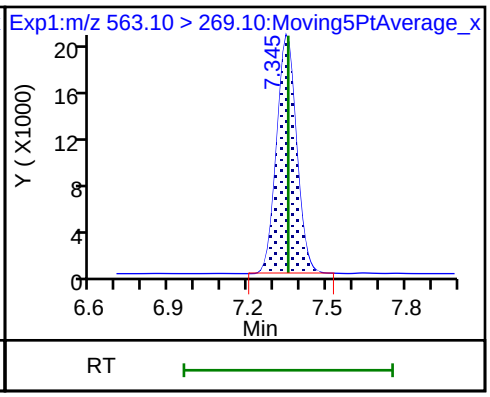
D 59 13C7 PFUnA



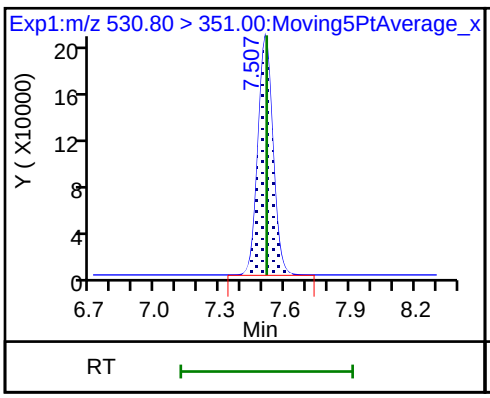
60 PFUnA



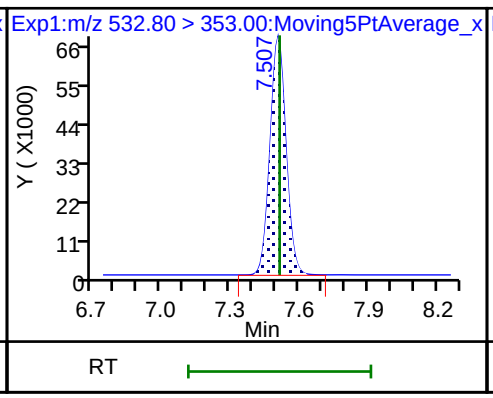
60 PFUnA



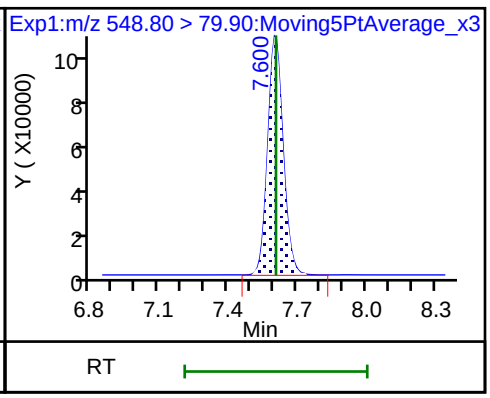
61 9ClFOS



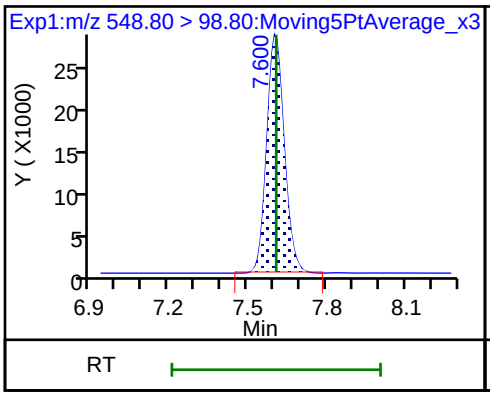
61 9ClFOS



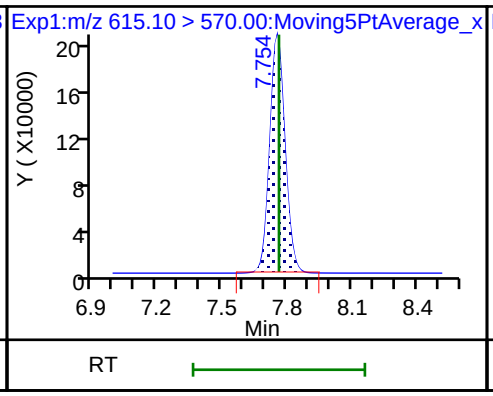
62 PFNS



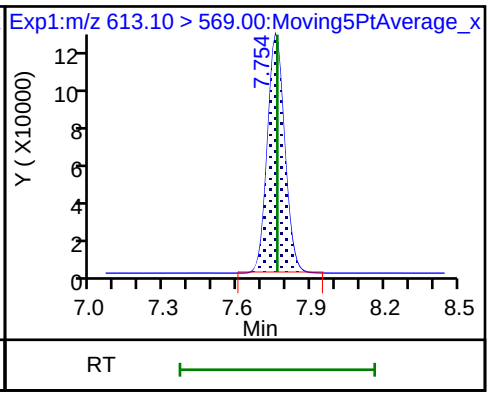
62 PFNS



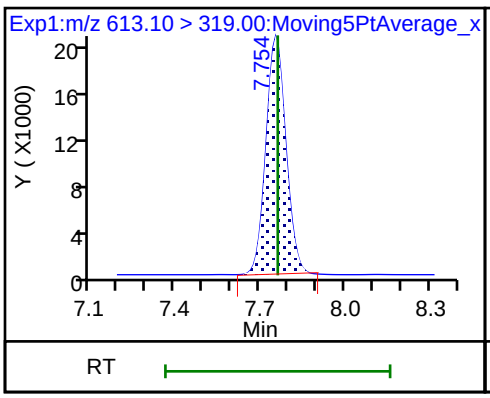
D 82 PFDoA



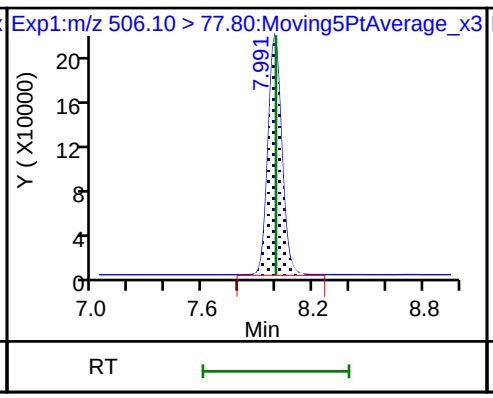
63 PFDoA



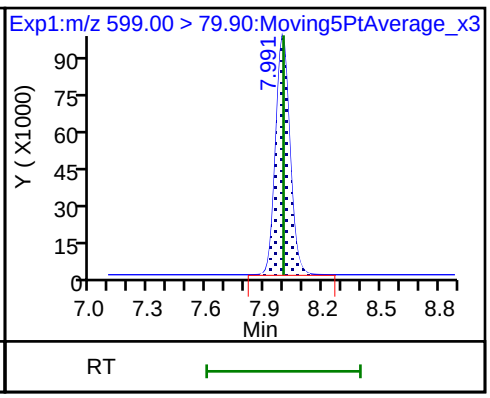
63 PFDoA



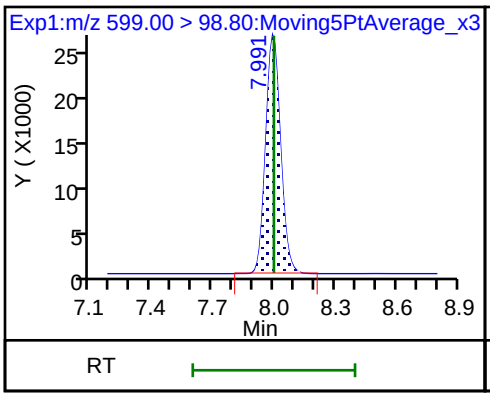
D 64 13C8 FOSA



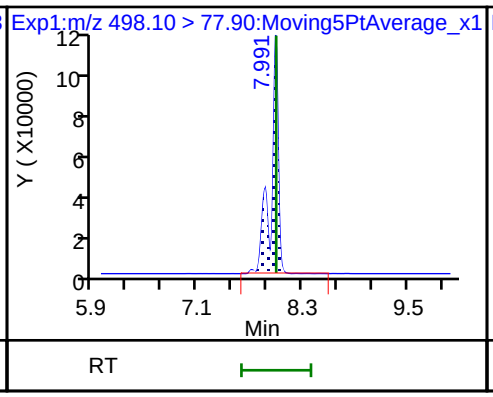
66 PFDS



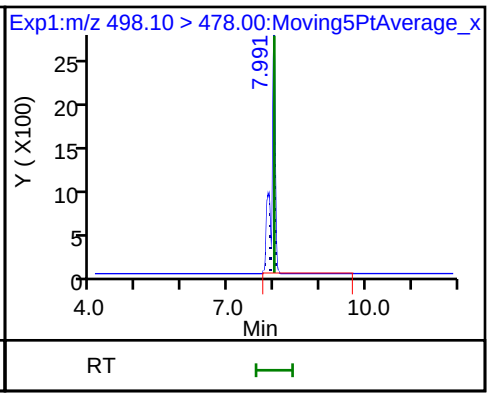
66 PFDS



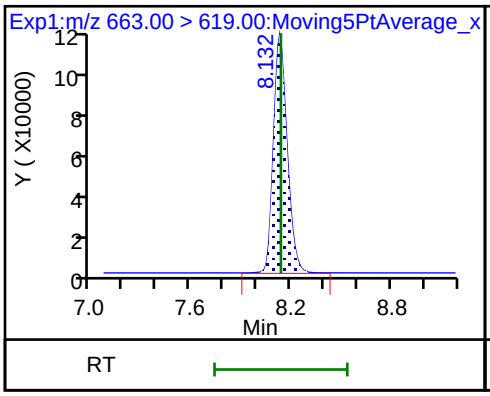
65 PFOSA



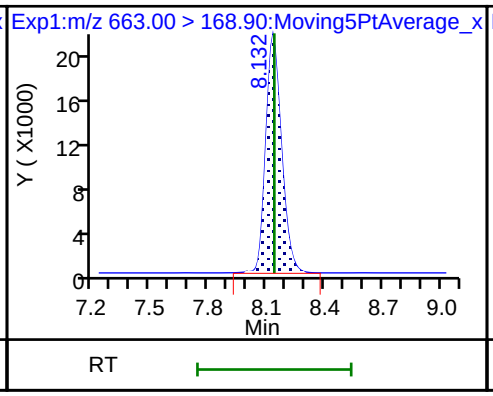
65 PFOSA



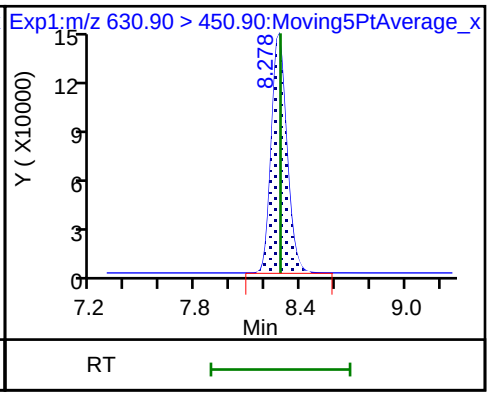
67 PFTrDA



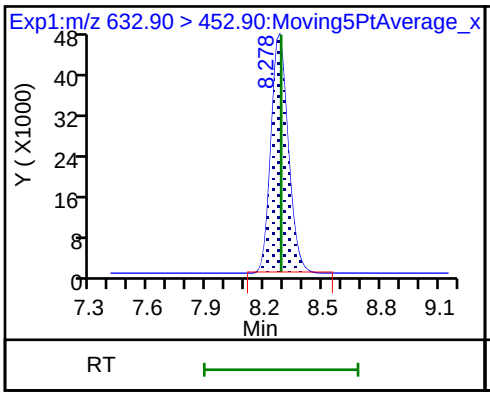
67 PFTrDA



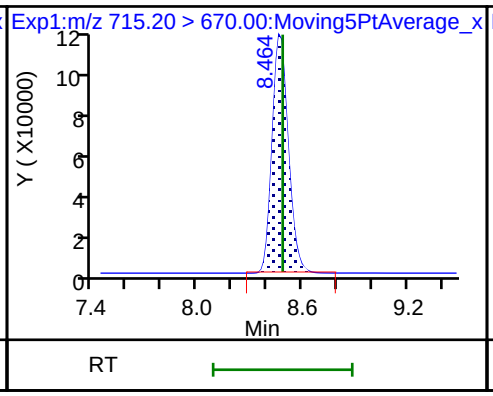
68 11ClFOS



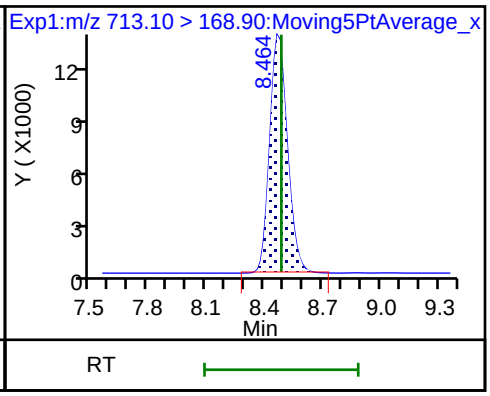
68 11ClFOS



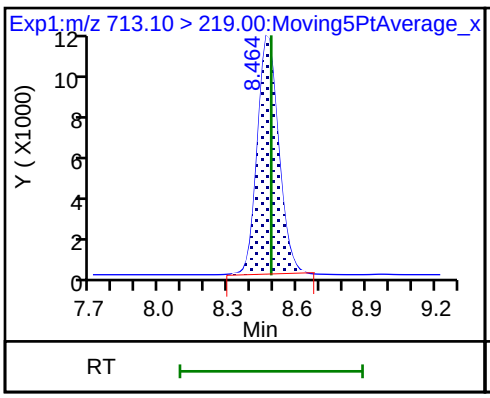
D 69 13C2 PFTeDA



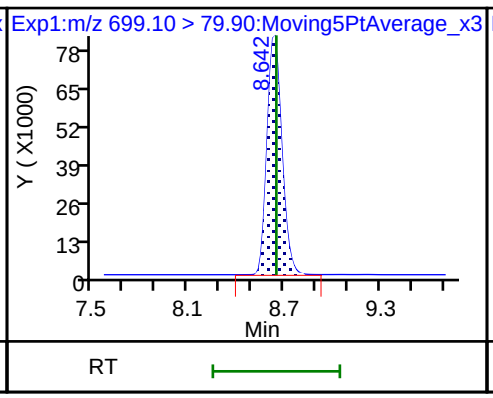
70 PFTeDA



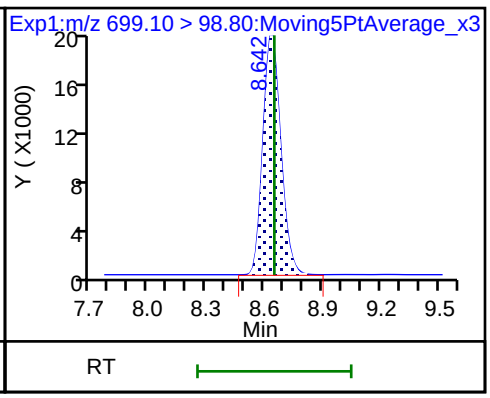
70 PFTeDA



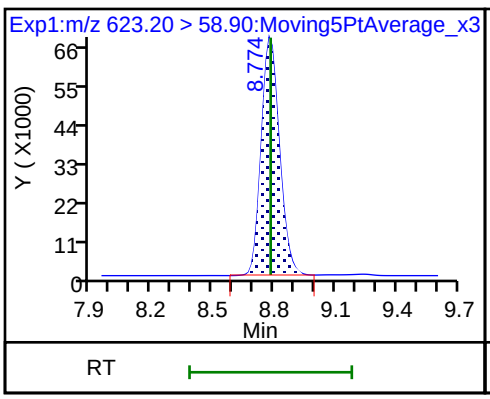
73 PFDoS



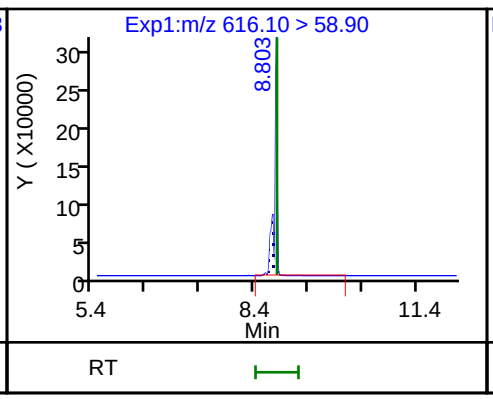
73 PFDoS



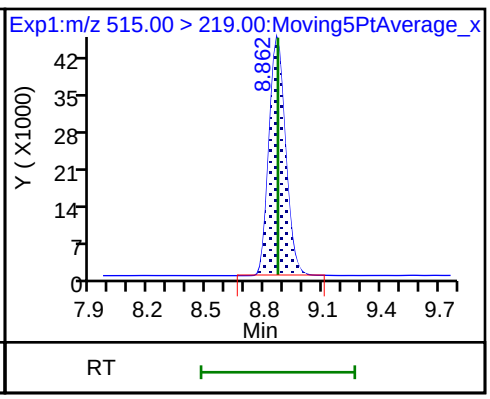
D 71 d7-N-Me-FOSE



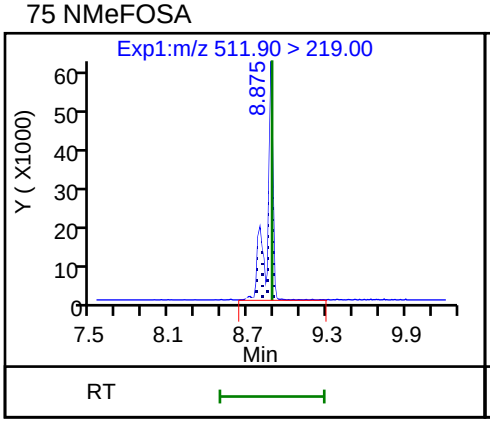
72 N-MeFOSE-M



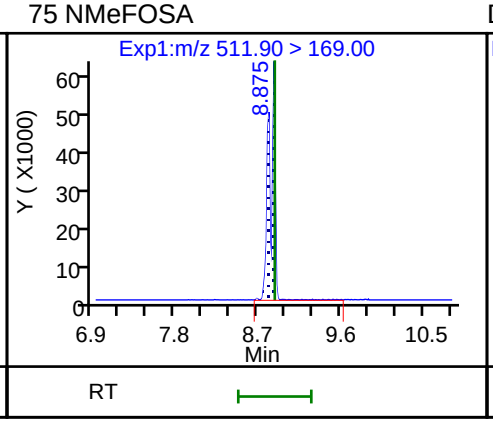
D 74 d3-NMePFOSA



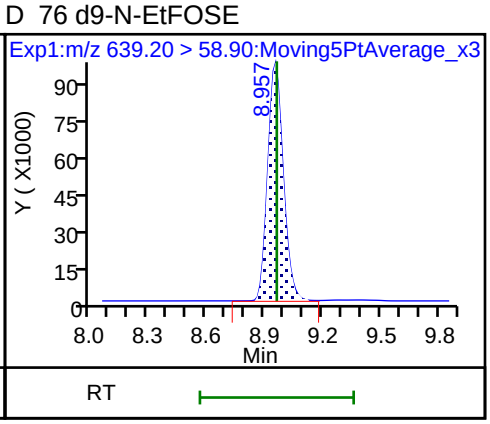
75 NMeFOSA



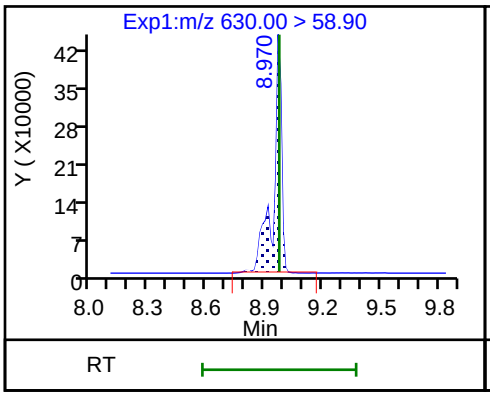
75 NMeFOSA



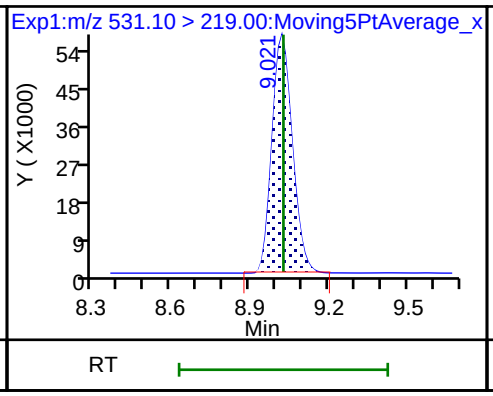
D 76 d9-N-EtFOSE



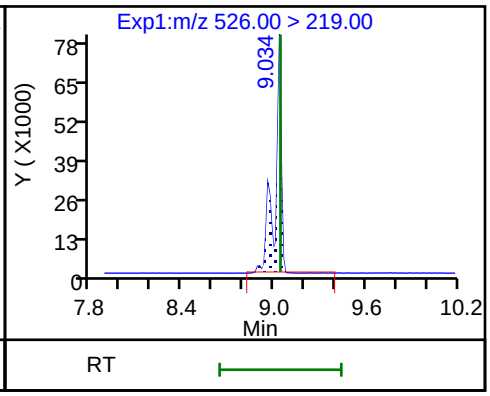
77 N-EtFOSE-M



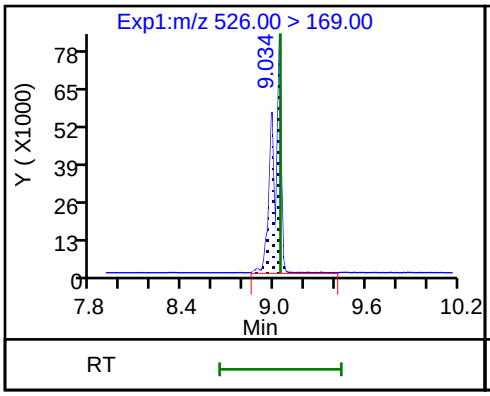
D 78 d5-NEtPFOSA



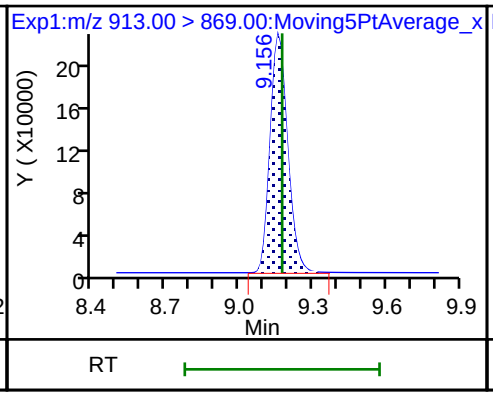
79 N-EtFOSA-M



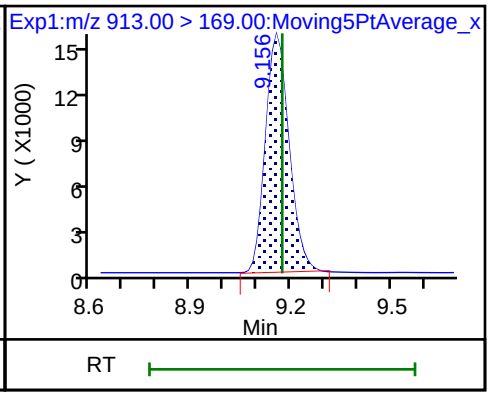
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCVO 410-606840/1 Calibration Date: 02/17/2025 15:58

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9690	0.9720		0.251	0.250	0.3	30.0
Perfluorobutanoic acid	AveID	0.8819	0.9022		0.102	0.100	2.3	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.732	1.609		0.0464	0.0500	-7.1	30.0
3:3 FTCA	AveID	0.0931	0.0767		0.0824	0.100	-17.6	30.0
Perfluoropentanoic acid	AveID	1.502	1.615		0.0538	0.0500	7.6	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.586	1.502		0.0474	0.0500	-5.3	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.487	1.463		0.0919	0.0934	-1.6	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.8118	0.8811		0.0543	0.0500	8.5	30.0
Perfluorohexanoic acid	AveID	0.9309	1.005		0.0540	0.0500	8.0	30.0
5:3 FTCA	AveID	0.1694	0.1554		0.229	0.250	-8.3	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.036	0.9480		0.0458	0.0500	-8.5	30.0
Perfluorobutanesulfonic acid	AveID	0.9838	1.023		0.0462	0.0444	4.0	30.0
HFPO-DA	AveID	0.999	1.048		0.0394	0.0375	5.0	30.0
PFEESA	AveID	2.736	2.646		0.0430	0.0445	-3.3	30.0
Perfluoroheptanoic acid	AveID	0.9533	0.9640		0.0506	0.0500	1.1	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.907	2.024		0.0502	0.0473	6.2	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.603	1.913		0.113	0.0948	19.3	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	1.088		0.0519	0.0470	10.4	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	L2ID		1.948		0.0504	0.0490	3.0	30.0
Perfluorooctanoic acid	L2ID		0.8162		0.0368	0.0500	-26.5	30.0
7:3 FTCA	AveID	0.1977	0.1786		0.226	0.250	-9.7	30.0
Perfluorohexanesulfonic acid	AveID	0.8258	1.048		0.0578	0.0456	26.9	30.0
Perfluorononanoic acid	AveID	0.8222	0.8327		0.0506	0.0500	1.3	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	1.392	1.475		0.101	0.0958	5.9	30.0
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	AveID	0.3244	0.3603		0.0513	0.0462	11.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.213	1.101		0.0454	0.0500	-9.2	30.0
Perfluoroheptanesulfonic acid	AveID	1.064	1.324		0.0594	0.0477	24.5	30.0
NMeFOSAA	AveID	1.004	1.002		0.0499	0.0500	-0.2	30.0
Perfluorodecanoic acid	AveID	0.8618	0.9370		0.0544	0.0500	8.7	30.0
NEtFOSAA	L2ID		0.9507		0.0645	0.0500	28.9	30.0
Perfluorooctanesulfonic acid	AveID	1.272	1.334		0.0487	0.0465	4.8	30.0
Perfluoroundecanoic acid	AveID	0.8044	0.7966		0.0495	0.0500	-1.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.220	1.398		0.0535	0.0467	14.6	30.0
Perfluorononanesulfonic acid	AveID	0.8702	0.8728		0.0482	0.0481	0.3	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCVO 410-606840/1 Calibration Date: 02/17/2025 15:58

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorododecanoic acid	AveID	0.9366	1.001		0.0535	0.0500	6.9	30.0
Perfluorooctanesulfonamide	AveID	0.9022	0.9327		0.0517	0.0500	3.4	30.0
Perfluorodecanesulfonic acid	AveID	0.9300	1.160		0.0601	0.0482	24.7	30.0
Perfluorotridecanoic acid	AveID	1.144	0.9486		0.0415	0.0500	-17.1	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.151	1.289		0.0529	0.0472	12.0	30.0
Perfluorotetradecanoic acid	AveID	0.1752	0.1933		0.0552	0.0500	10.3	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.026	1.185		0.0560	0.0485	15.5	30.0
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.842	2.197		0.298	0.250	19.3	30.0
NMeFOSA	AveID	1.039	1.003		0.0483	0.0500	-3.4	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	1.825	1.880		0.258	0.250	3.0	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	1.073	0.9891		0.0461	0.0500	-7.8	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	2.547	3.918		0.0769	0.0500	53.8*	30.0
13C3 PFPrA	Ave	0.6389	0.5597		1.75	2.00	-12.4	30.0
13C4 PFBA	Ave	1.068	1.082		2.03	2.00	1.3	30.0
13C5 PFPeA	Ave	0.6101	0.5930		1.94	2.00	-2.8	30.0
M2-4:2 FTS	Ave	0.1577	0.1405		4.18	4.69	-10.9	30.0
13C5 PFHxA	Ave	0.8841	0.8916		2.02	2.00	0.8	30.0
13C3 PFBS	Ave	1.096	1.129		1.92	1.86	3.0	30.0
13C3 HFPO-DA	Ave	1.093	1.044		1.91	2.00	-4.5	30.0
13C4 PFHpA	Ave	0.8968	0.8964		2.00	2.00	-0.0	30.0
M2-6:2 FTS	Ave	0.1652	0.1421		4.09	4.76	-14.0	30.0
13C8 PFOA	Ave	1.067	1.151		2.16	2.00	7.9	30.0
13C3 PFHxS	Ave	1.025	1.014		1.87	1.90	-1.1	30.0
13C9 PFNA	Ave	1.024	0.9520		1.86	2.00	-7.0	30.0
M2-8:2 FTS	Ave	0.1424	0.1240		4.18	4.80	-13.0	30.0
d3-NMeFOSAA	Ave	0.3484	0.3197		4.59	5.00	-8.2	30.0
13C6 PFDA	Ave	1.054	1.057		2.00	2.00	0.2	30.0
d5-NEtFOSAA	Ave	0.2858	0.3096		5.42	5.00	8.3	30.0
13C8 PFOS	Ave	1.024	0.9758		1.82	1.91	-4.7	30.0
13C7 PFUnA	Ave	0.9841	1.054		2.14	2.00	7.1	30.0
13C2 PFDoA	Ave	0.8279	0.8487		2.05	2.00	2.5	30.0
13C8 FOSA	Ave	1.220	1.164		1.91	2.00	-4.6	30.0
13C2 PFTeDA	Ave	0.5852	0.6018		2.06	2.00	2.8	30.0
d7-N-MeFOSE-M	Ave	0.1897	0.1861		4.90	5.00	-1.9	30.0
d3-NMePFOSA	Ave	0.3203	0.3157		1.97	2.00	-1.4	30.0
d9-N-EtFOSE-M	Ave	0.2468	0.2583		5.23	5.00	4.7	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCVO 410-606840/1 Calibration Date: 02/17/2025 15:58

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d5-NEtPFOSA	Ave	0.3610	0.3462		1.92	2.00	-4.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-01.d
Lims ID: CCVO 1_CAL1
Client ID:
Sample Type: CCVO
Inject. Date: 17-Feb-2025 15:58:59 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCVO 1_CAL1
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:17 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 16:51:04
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										M
163.00 > 119.00	2.102	2.102	0.0	0.992	103274	0.2508		100	287	M
D 1 13C3PFPrA										
166.00 > 121.00	2.118	2.118	0.0	0.501	850028	1.75		87.6	18398	
5 PFBA										
212.80 > 168.90	4.216	4.216	0.0	0.998	74117	0.1023		102	785	
D 3 13C4-PFBA										
216.80 > 171.90	4.224	4.224	0.0	1.000	1643057	2.03		101	86810	
* 4 13C3PFBA										
216.00 > 172.00	4.224	4.224	0.0		1518629	2.00			20123	
6 PFMPA										
229.00 > 84.90	4.540	4.540	0.0	0.933	35372	0.0464		92.9	2290	
7 3:3 FTCA										Ma
241.00 > 177.00	4.551	4.551	0.0	0.935	3371	0.0824	Target=1.15	82.4	219	a
241.00 > 117.00	4.551	4.551	0.0	0.935	3326		1.01(0.58-1.73)		222	M
D 8 13C5 PFPeA										
268.30 > 223.00	4.866	4.866	0.0	0.915	879313	1.94		97.2	56693	
9 PFPA										
263.00 > 219.00	4.866	4.866	0.0	1.000	35505	0.0538		108	1369	
10 PFMBA										
279.00 > 85.10	5.020	5.020	0.0	1.032	33027	0.0474		94.7	2154	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.139	5.139	0.0	0.802	403561	4.18		89.1	18039	
12 4:2FTS										
327.10 > 307.00	5.139	5.139	0.0	1.000	11755	0.0919	Target=1.45	98.4	722	
327.10 > 80.90	5.139	5.139	0.0	1.000	7712		1.52(0.73-2.18)		277	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.283	5.283	0.0	0.993	29120	0.0543	Target=1.37	109	1750	
295.00 > 84.90	5.283	5.283	0.0	0.993	21010		1.39(0.68-2.05)		1221	
D 15 13C5 PFHxA										
318.00 > 273.00	5.318	5.318	0.0	1.000	1322054	2.02		101	77309	
* 16 13C2 PFHxA										
315.10 > 270.00	5.318	5.318	0.0		3707005	5.00			216364	
17 PFHxA										
313.00 > 269.00	5.318	5.318	0.0	1.000	33229	0.0540	Target=10.68	108	1425	
313.00 > 118.90	5.331	5.318	0.013	1.002	2959		11.23(5.34-16.02)		175	
20 5:3 FTCA										
341.00 > 237.10	5.400	5.400	0.0	1.015	25680	0.2293	Target=0.98	91.7	1400	
341.00 > 217.00	5.400	5.400	0.0	1.015	26624		0.96(0.49-1.47)		1440	
25 FBSA										
297.90 > 78.00	5.442	5.442	0.0	0.997	32791	0.0458		91.5	1742	
19 PFBS										
298.70 > 79.90	5.456	5.456	0.0	1.000	31423	0.0462	Target=2.96	104	1668	
298.70 > 98.80	5.456	5.456	0.0	1.000	10479		3.00(1.48-4.44)		564	
D 18 13C3 PFBS										
302.10 > 79.90	5.456	5.456	0.0	0.852	1289544	1.92		103	69368	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.514	5.514	0.0	1.037	1547870	1.91		95.5	84091	
22 HFPO-DA										
284.90 > 168.90	5.514	5.514	0.0	1.000	30419	0.0394	Target=2.37	105	706	
284.90 > 184.90	5.514	5.514	0.0	1.000	12458		2.44(1.19-3.56)		490	
24 PFEESA										
314.80 > 134.90	5.709	5.709	0.0	1.073	77833	0.0430	Target=11.81	96.7	4403	
314.80 > 82.90	5.709	5.709	0.0	1.073	4989		15.60(5.90-17.71)		279	
28 PFHpA										
363.10 > 319.00	5.760	5.760	0.0	1.000	32030	0.0506	Target=2.56	101	1402	
363.10 > 169.00	5.760	5.760	0.0	1.000	14569		2.20(1.28-3.85)		860	
D 26 13C4 PFHpA										
367.10 > 322.00	5.760	5.760	0.0	1.083	1329113	2.00		100.0	79204	
30 ADONA										
376.90 > 250.90	5.916	5.916	0.0	1.073	74102	0.0502	Target=1.81	106	4800	
376.90 > 84.80	5.916	5.916	0.0	1.073	42080		1.76(0.90-2.71)		2675	
29 PFPeS										
349.10 > 79.90	5.960	5.960	0.0	0.930	31768	0.0519	Target=3.25	110	2124	
349.10 > 98.90	5.949	5.960	-0.011	0.929	7824		4.06(1.63-4.88)		530	
32 6:2FTS										
427.10 > 407.00	5.960	5.960	0.0	0.998	15784	0.1131	Target=1.57	119	1043	
427.10 > 80.90	5.971	5.960	0.011	1.000	7698		2.05(0.78-2.35)		527	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.971	5.971	0.0	0.932	414373	4.09		86.0	27221	
33 BTS										
280.00 > 147.00	6.110	6.110	0.0	0.954	59231	0.0504		103	3598	
D 34 13C8 PFOA										
421.10 > 376.00	6.183	6.183	0.0	1.000	1943239	2.16		108	88003	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										M
413.00 > 369.00	6.183	6.183	0.0	1.000	39651	0.0368	Target=2.35	73.5	713	M
413.00 > 169.00	6.183	6.183	0.0	1.000	16260		2.44(1.18-3.53)		3077	M
* 35 13C4 PFOA										
417.10 > 372.00	6.183	6.183	0.0		4222098	5.00			595614	
39 7:3 FTCA										
441.00 > 316.90	6.243	6.243	0.0	1.174	29513	0.2258	Target=0.90	90.3	1708	
441.00 > 336.90	6.243	6.243	0.0	1.174	30934		0.95(0.45-1.35)		1763	
D 38 13C3 PFHxS										
402.10 > 79.90	6.407	6.407	0.0	1.000	1177771	1.87		98.9	69510	
* 37 18O2 PFHxS										
403.00 > 83.90	6.407	6.407	0.0		1159126	1.89			68007	
40 PFHxS										
398.70 > 79.90	6.407	6.407	0.0	1.000	29673	0.0578	Target=3.23	127	2036	
398.70 > 98.90	6.407	6.407	0.0	1.000	10355		2.87(1.62-4.85)		2662	
D 41 13C9 PFNA										
472.10 > 427.00	6.595	6.595	0.0	1.000	1539159	1.86		93.0	66954	
43 PFNA										M
463.00 > 419.00	6.595	6.595	0.0	1.000	32040	0.0506	Target=2.70	101	1134	M
463.00 > 219.00	6.608	6.595	0.013	1.002	12625		2.54(1.35-4.05)		2096	M
* 42 13C5 PFNA										
468.00 > 423.00	6.595	6.595	0.0		1616758	2.00			70529	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.774	6.774	0.0	1.057	364512	4.18		87.0	22250	
46 8:2FTS										RM
527.10 > 507.00	6.786	6.786	0.0	1.002	10732	0.1015	Target=1.51	106	653	R
527.10 > 80.80	6.786	6.786	0.0	1.002	4440		2.42(0.75-2.26)		284	M
44 PFECHS										
461.00 > 381.00	6.809	6.809	0.0	1.063	10339	0.0513	Target=0.29	111	585	
461.00 > 99.00	6.809	6.809	0.0	1.063	34886		0.30(0.15-0.44)		2083	
48 FHxSA										
397.90 > 78.00	6.820	6.820	0.0	1.064	34186	0.0454		90.8	1901	
47 PFHpS										
449.00 > 79.90	6.845	6.845	0.0	0.940	33231	0.0594	Target=3.66	124	1989	
449.00 > 98.80	6.845	6.845	0.0	0.940	9912		3.35(1.83-5.49)		578	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.947	6.947	0.0	0.954	861816	4.59		91.8	47669	
50 NMeFOSAA										
570.10 > 419.00	6.947	6.947	0.0	1.000	8638	0.0499	Target=1.83	99.8	1761	
570.10 > 483.00	6.947	6.947	0.0	1.000	4783		1.81(0.91-2.74)		981	
D 51 13C6 PFDA										
519.10 > 474.10	7.014	7.014	0.0	1.000	1665722	2.00		100	90079	
53 PFDA										
512.90 > 469.00	7.014	7.014	0.0	1.000	39019	0.0544	Target=5.26	109	1579	
512.90 > 219.00	7.014	7.014	0.0	1.000	7346		5.31(2.63-7.89)		401	
* 52 13C2 PFDA										
515.10 > 470.10	7.014	7.014	0.0		1576328	2.00			63725	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.137	7.137	0.0	0.980	834635	5.42		108	45348	
55 NEtFOSAA										M
584.20 > 419.10	7.150	7.150	0.0	1.002	7935	0.0645	Target=1.37	129	1534	M
584.20 > 526.00	7.163	7.150	0.013	1.004	6257		1.27(0.69-2.06)		1137	M
D 56 13C8 PFOS										
507.10 > 79.90	7.285	7.285	0.0	1.000	1006057	1.82		95.3	35361	
* 57 13C4 PFOS										
502.80 > 79.90	7.285	7.285	0.0		1030956	1.91			60378	
58 PFOS										
498.90 > 79.90	7.285	7.285	0.0	1.000	32629	0.0487	Target=4.45	105	5529	
498.90 > 98.80	7.298	7.285	0.013	1.002	7822		4.17(2.23-6.68)		1609	
D 59 13C7 PFUnA										
570.00 > 525.10	7.438	7.438	0.0	1.060	1661962	2.14		107	83382	
60 PFUnA										
563.10 > 519.00	7.448	7.448	0.0	1.001	33098	0.0495	Target=6.24	99.0	2159	
563.10 > 269.10	7.438	7.448	-0.010	1.000	5260		6.29(3.12-9.36)		366	
61 9ClFOS										
530.80 > 351.00	7.618	7.618	0.0	1.382	50526	0.0535	Target=3.02	115	3453	
532.80 > 353.00	7.618	7.618	0.0	1.382	15547		3.25(1.51-4.54)		1080	
62 PFNS										
548.80 > 79.90	7.714	7.714	0.0	1.059	22089	0.0482	Target=3.66	100	1490	
548.80 > 98.80	7.714	7.714	0.0	1.059	6488		3.40(1.83-5.49)		428	
D 82 PFDoA										
615.10 > 570.00	7.862	7.862	0.0	1.121	1337846	2.05		103	88812	
63 PFDoA										
613.10 > 569.00	7.862	7.862	0.0	1.000	33489	0.0535	Target=6.35	107	1668	
613.10 > 319.00	7.862	7.862	0.0	1.000	5030		6.66(3.17-9.52)		330	
D 64 13C8 FOSA										
506.10 > 77.80	8.022	8.022	0.0	1.101	1255075	1.91		95.4	80518	
65 PFOSA										M
498.10 > 77.90	8.033	8.033	0.0	1.001	29264	0.0517	Target=40.87	103	5100	M
498.10 > 478.00	8.012	8.033	-0.021	0.999	533		54.90(20.44-61.31)		112	M
66 PFDS										
599.00 > 79.90	8.110	8.110	0.0	1.113	29418	0.0601	Target=3.79	125	1751	
599.00 > 98.80	8.110	8.110	0.0	1.113	6514		4.52(1.90-5.69)		380	
67 PFTrDA										
663.00 > 619.00	8.252	8.252	0.0	0.962	27112	0.0415	Target=5.85	82.9	1462	
663.00 > 168.90	8.252	8.252	0.0	0.962	6941		3.91(2.93-8.78)		369	
68 11ClFOS										
630.90 > 450.90	8.392	8.392	0.0	1.522	47084	0.0529	Target=3.00	112	2466	
632.90 > 452.90	8.392	8.392	0.0	1.522	15664		3.01(1.50-4.50)		818	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.581	8.581	0.0	1.223	948569	2.06		103	36405	
70 PFTeDA										
713.10 > 168.90	8.581	8.581	0.0	1.000	4584	0.0552	Target=1.17	110	244	
713.10 > 219.00	8.596	8.581	0.015	1.002	3718		1.23(0.58-1.75)		192	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.745	8.745	0.0	1.200	30229	0.0560	Target=4.47	115	1609	
699.10 > 98.80	8.745	8.745	0.0	1.200	6114		4.94(2.23-6.70)		331	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.789	8.789	0.0	1.206	501634	4.90		98.1	7385	
72 N-MeFOSE-M										
616.10 > 58.90	8.803	8.803	0.0	1.002	55114	0.2983		119	298	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.876	8.876	0.0	1.218	340430	1.97		98.6	14442	
75 NMeFOSA										
511.90 > 219.00	8.889	8.889	0.0	1.002	8540	0.0483	Target=0.74	96.6	57.8	
511.90 > 169.00	8.889	8.889	0.0	1.002	10862		0.79(0.37-1.12)		53.4	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.229	696502	5.23		105	17797	
77 N-EtFOSE-M										M
630.00 > 58.90	8.983	8.983	0.0	1.003	65469	0.2576		103	11336	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.034	9.034	0.0	1.240	373361	1.92		95.9	17210	
79 N-EtFOSA-M										
526.00 > 219.00	9.047	9.047	0.0	1.001	9232	0.0461	Target=0.80	92.2	81.8	
526.00 > 169.00	9.047	9.047	0.0	1.001	11698		0.79(0.40-1.20)		63.6	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.336	9.336	0.0	1.088	92903	0.0769	Target=14.94	154	6812	
913.00 > 169.00	9.336	9.336	0.0	1.088	6553		14.18(7.47-22.41)		487	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

1633_125_CAL1_00030 Amount Added: 1.00 Units: mL

Report Date: 17-Feb-2025 18:30:18 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-01.d

Injection Date: 17-Feb-2025 15:58:59 Instrument ID: 30576

Lims ID: CCVO 1_CAL1

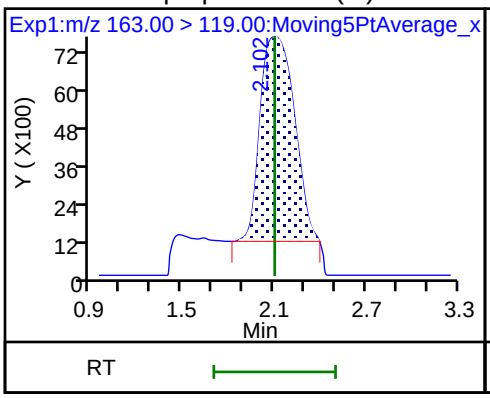
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1

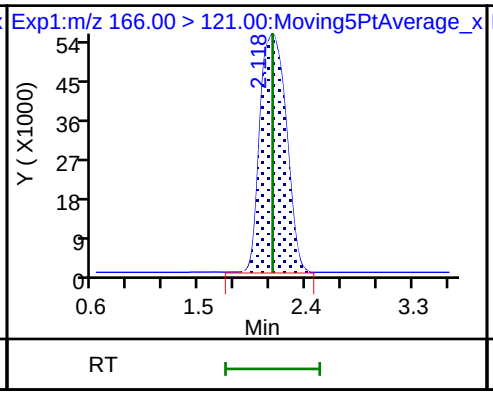
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

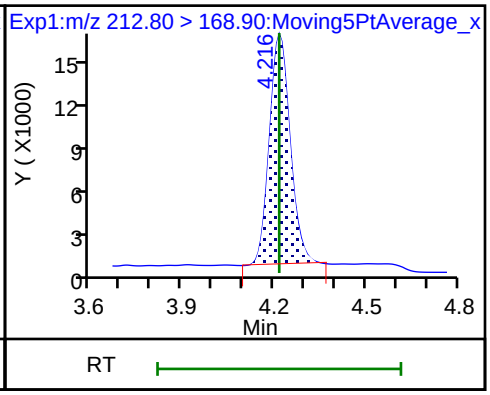
2 Perfluoropropionic acid (M)



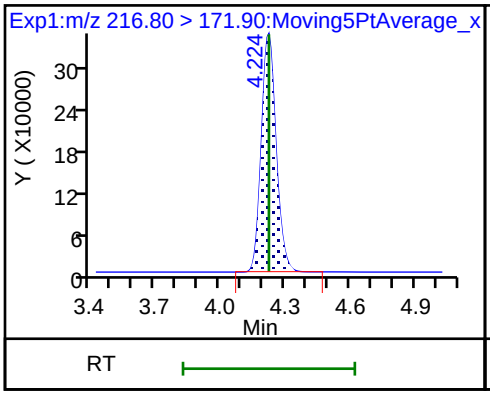
D 1 13C3PFPrA



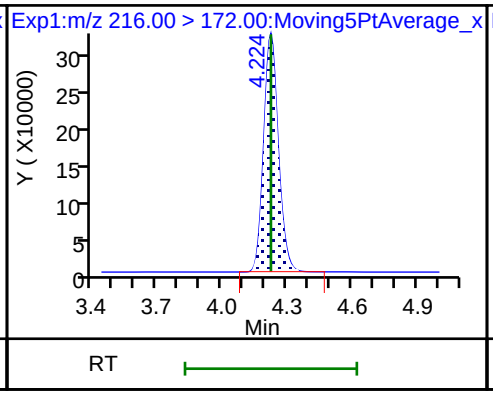
5 PFBA



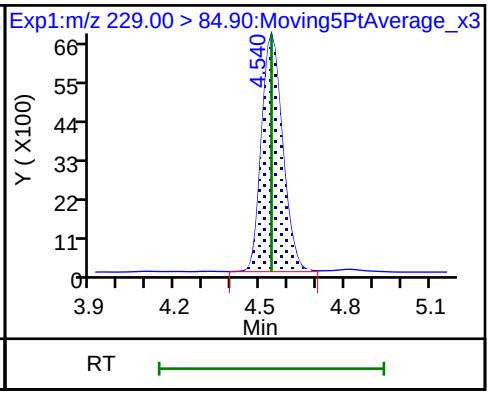
D 3 13C4-PFBA



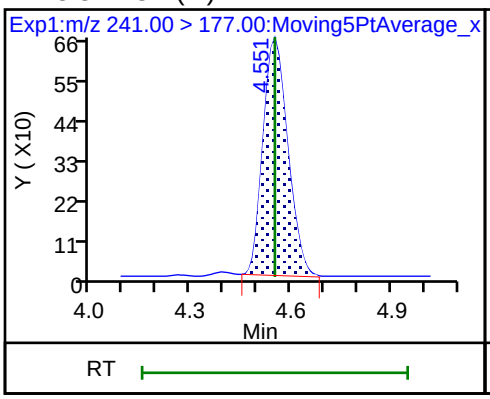
* 4 13C3PFBA



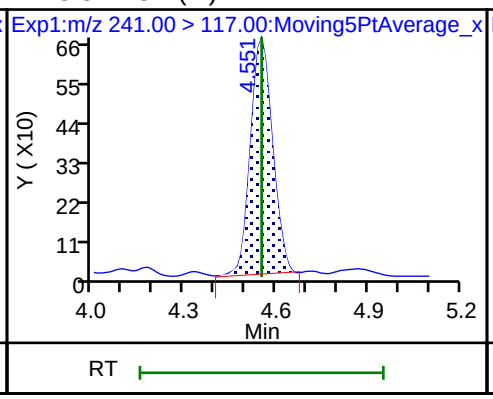
6 PFMPA



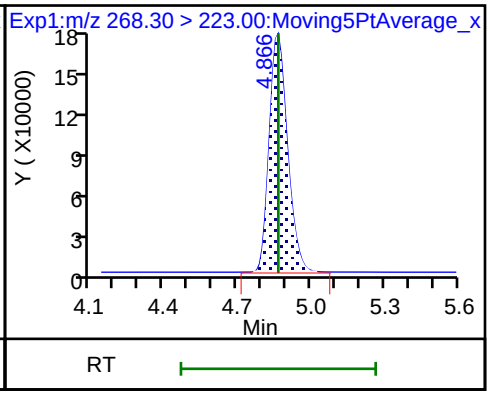
7 3:3 FTCA (M)



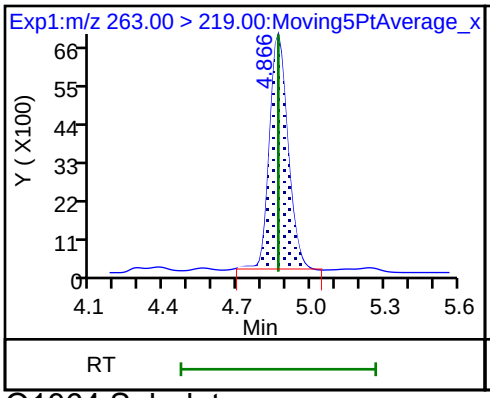
7 3:3 FTCA (M)



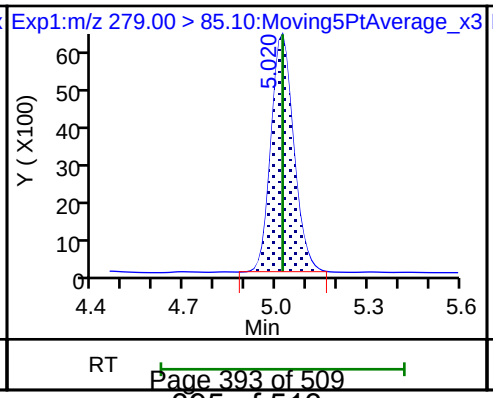
D 8 13C5 PFPeA



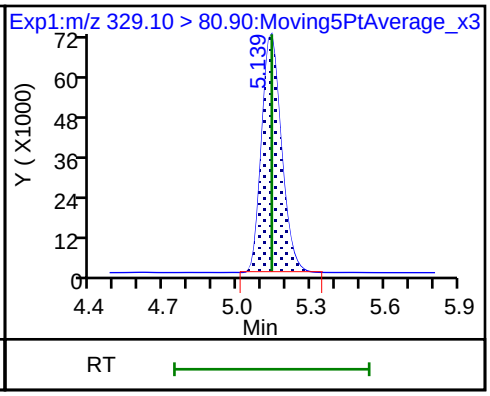
9 PFPA



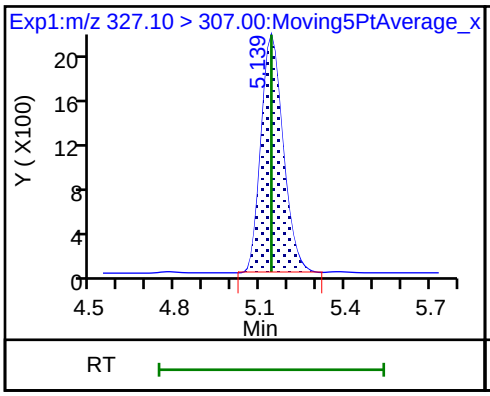
10 PFMBA



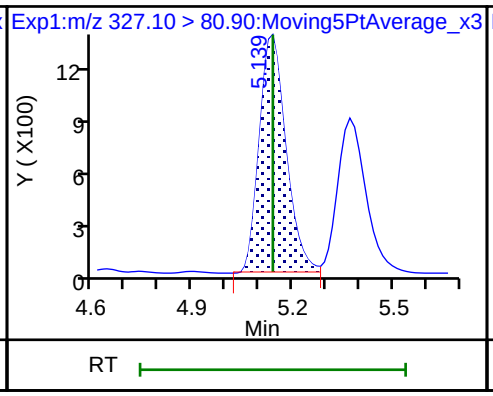
D 11 13C2-4:2FTS



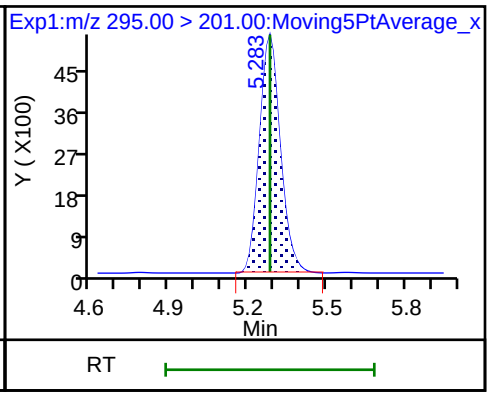
12 4:2FTS



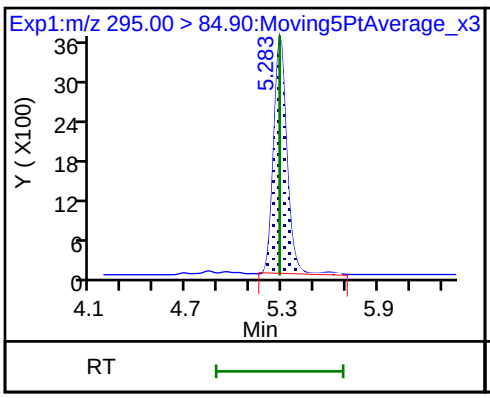
12 4:2FTS



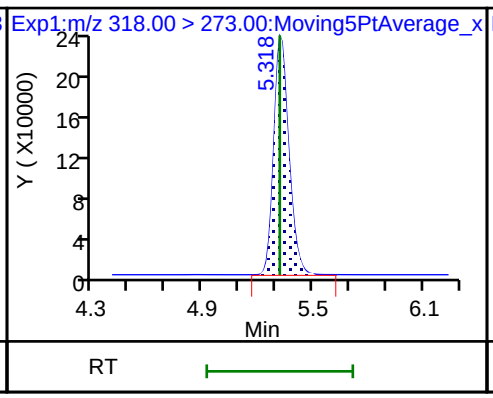
14 NFDHA



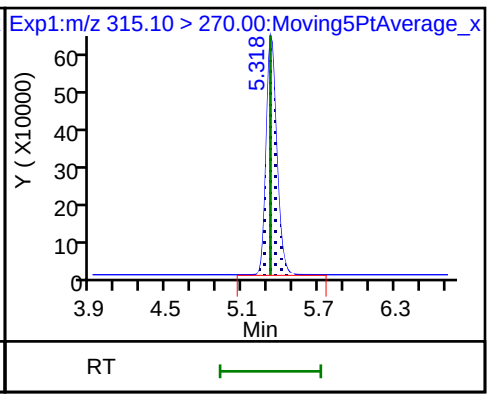
14 NFDHA



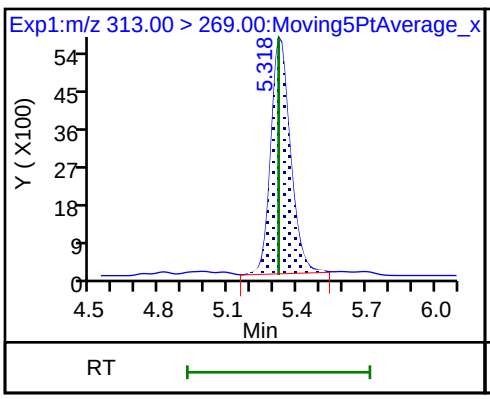
D 15 13C5 PFHxA



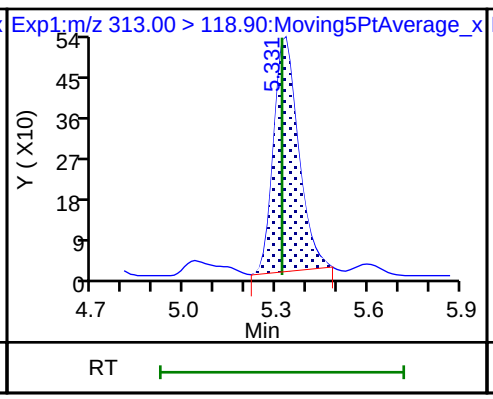
* 16 13C2 PFHxA



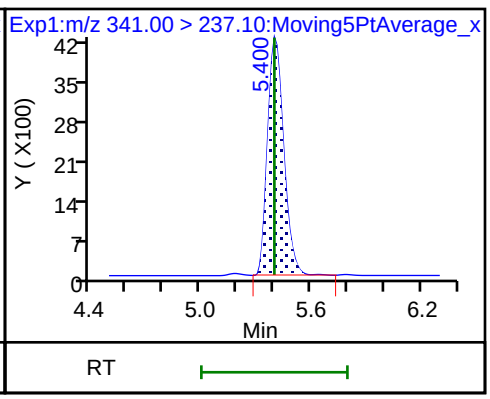
17 PFHxA



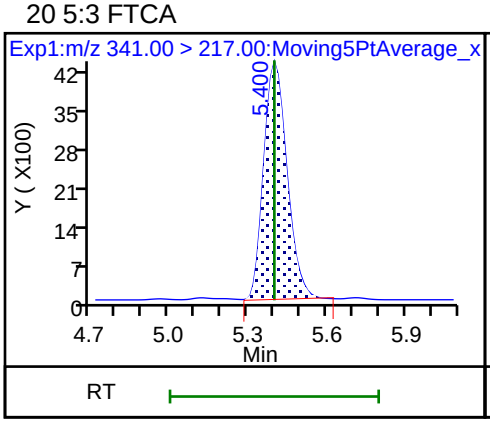
17 PFHxA



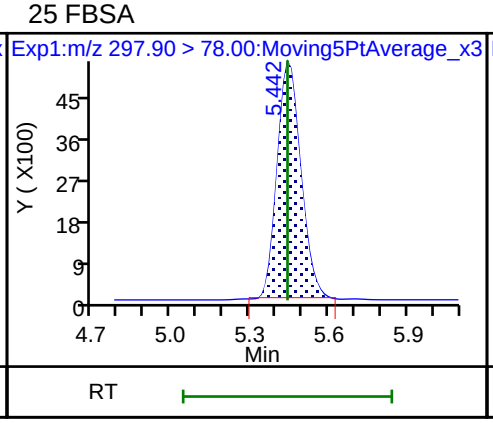
20 5:3 FTCA



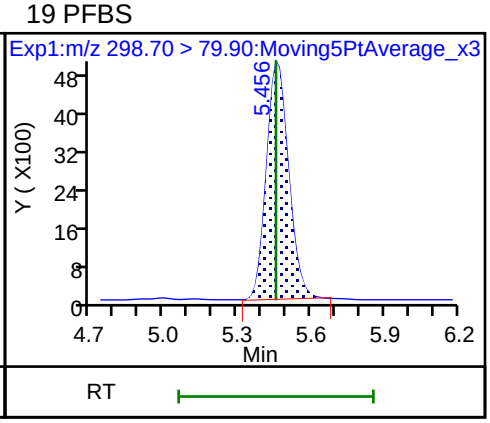
20 5:3 FTCA



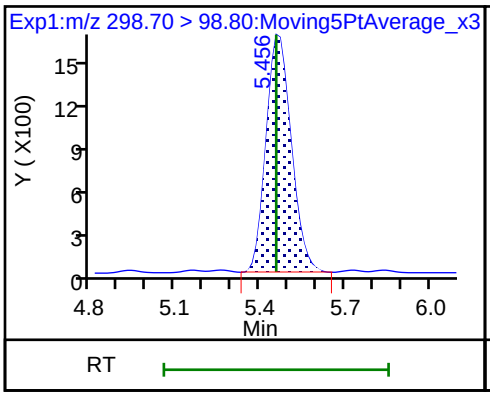
25 FBSA



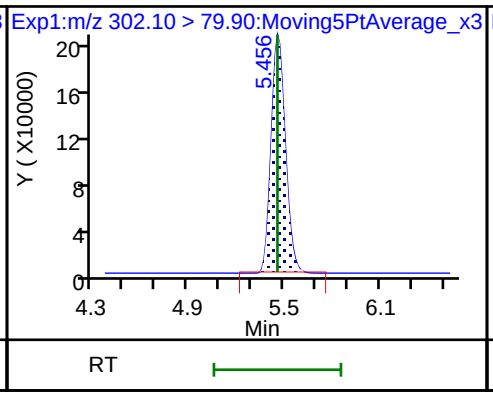
19 PFBS



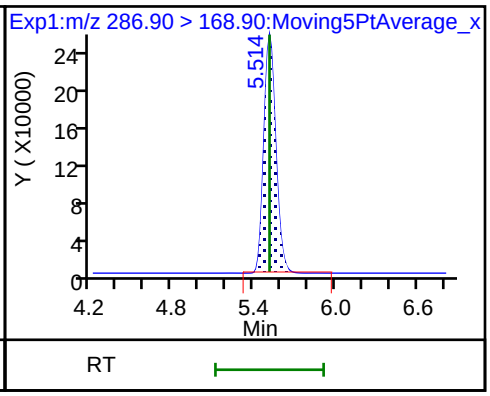
19 PFBS



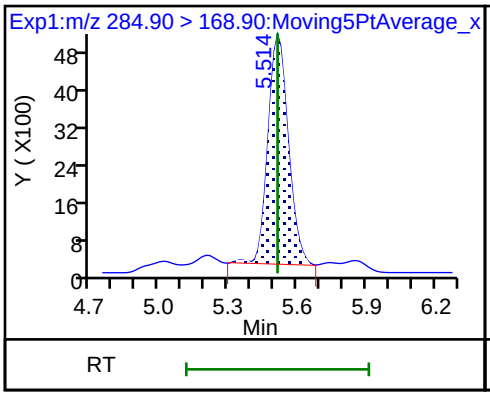
D 18 13C3 PFBS



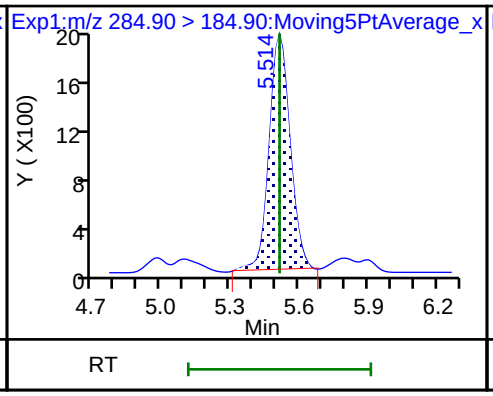
D 21 13C3 HFPO-DA



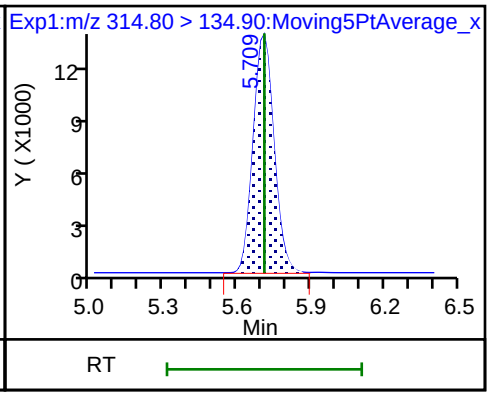
22 HFPO-DA



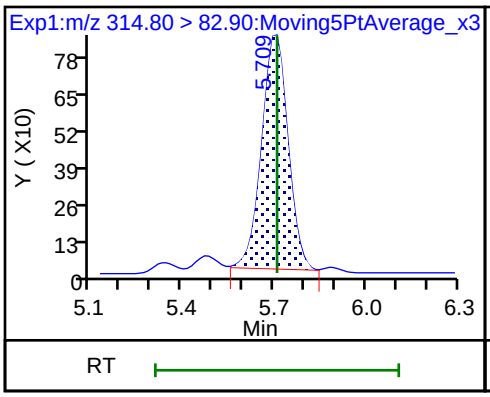
22 HFPO-DA



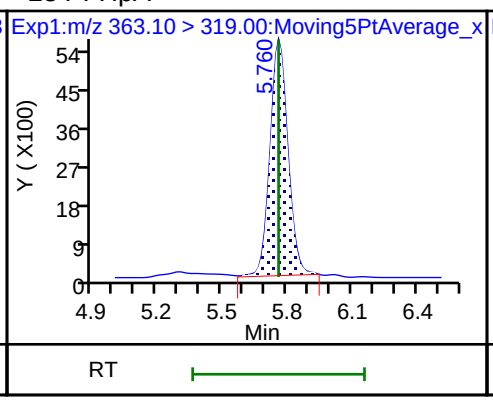
24 PFEESA



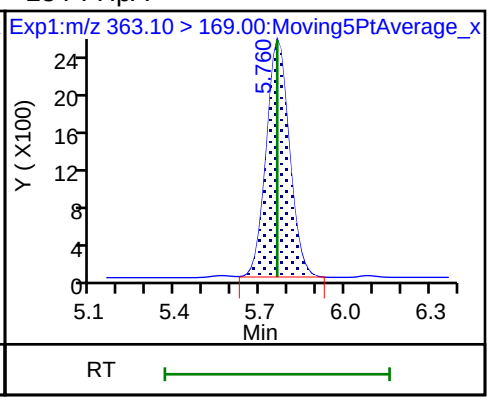
24 PFEESA



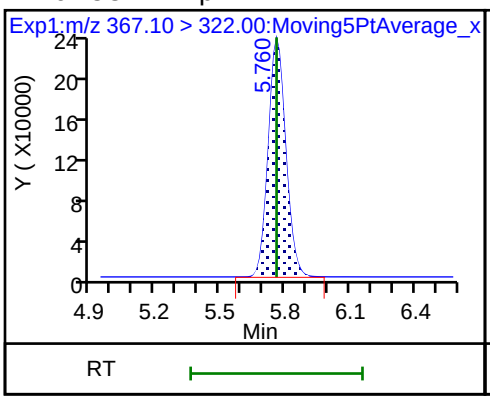
28 PFHpA



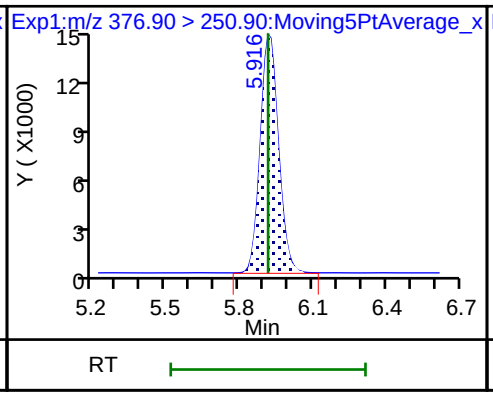
28 PFHpA



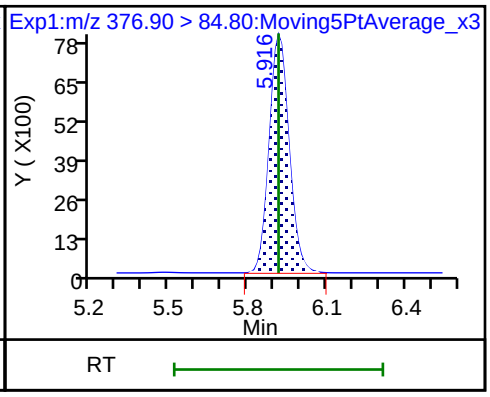
D 26 13C4 PFHpA



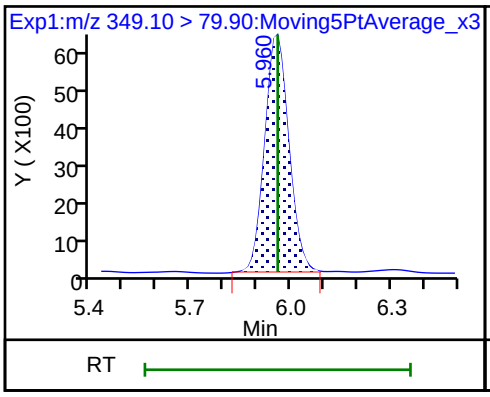
30 ADONA



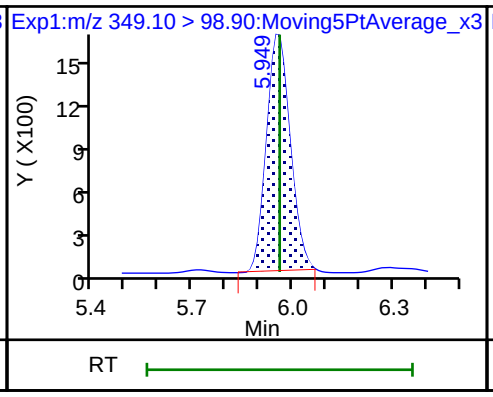
30 ADONA



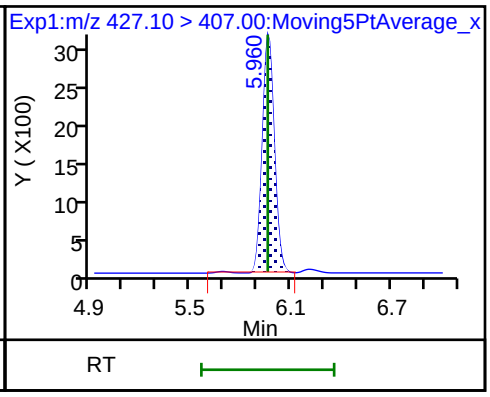
29 PFPeS



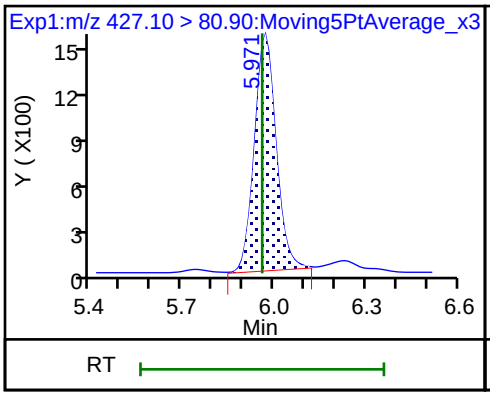
29 PFPeS



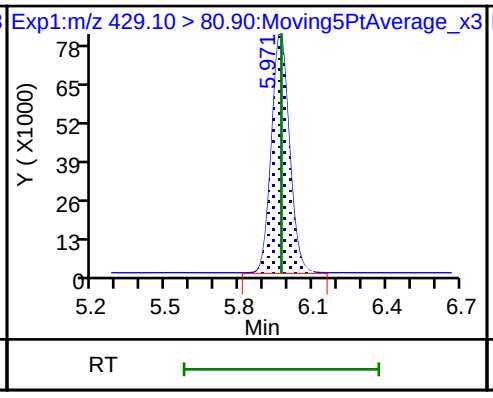
32 6:2FTS



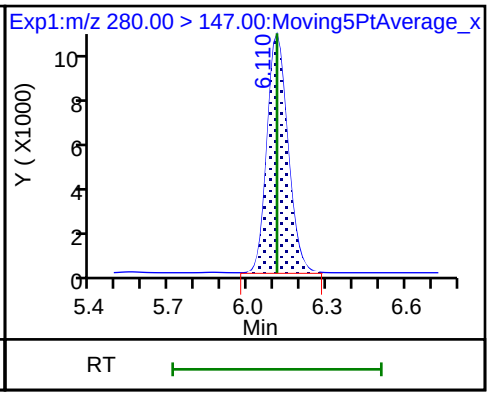
32 6:2FTS



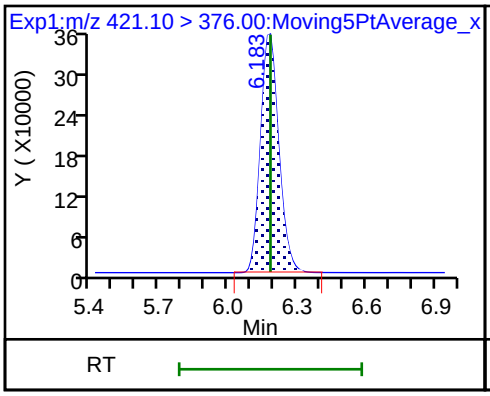
D 31 13C2-6:2FTS



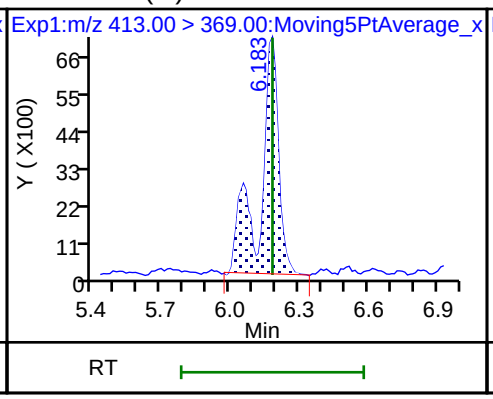
33 BTS



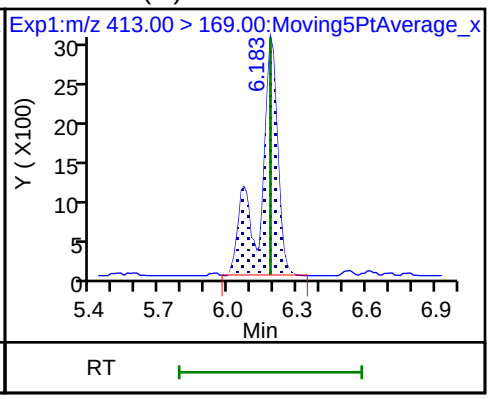
D 34 13C8 PFOA



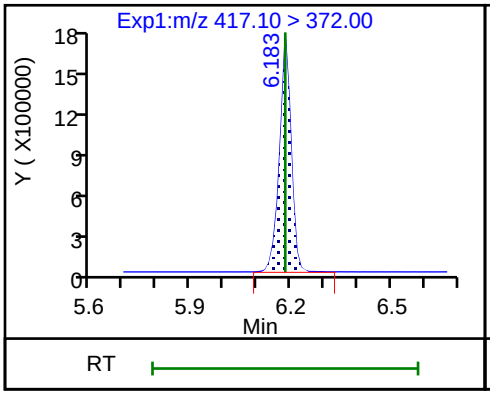
36 PFOA (M)



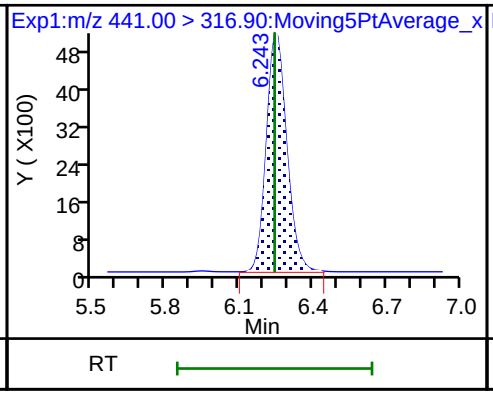
36 PFOA (M)



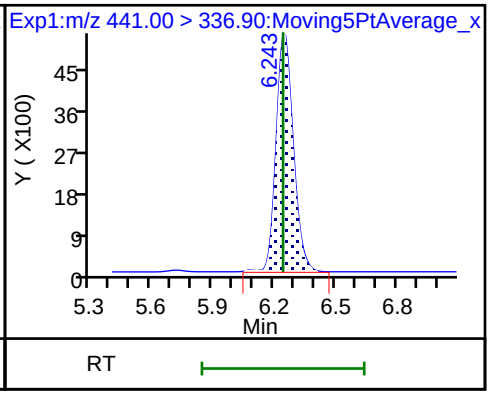
* 35 13C4 PFOA



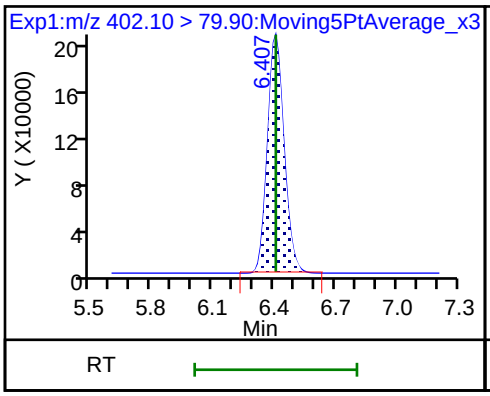
39 7:3 FTCA



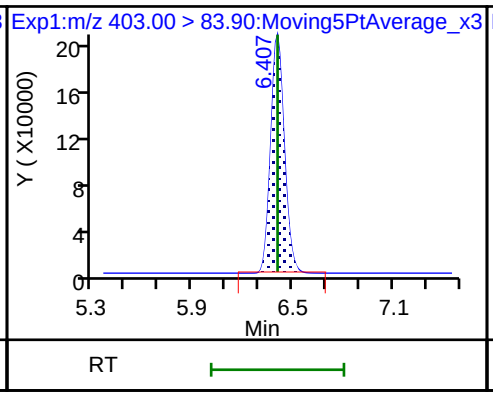
39 7:3 FTCA



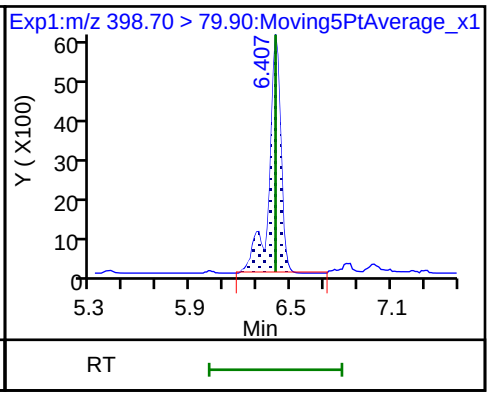
D 38 13C3 PFHxS



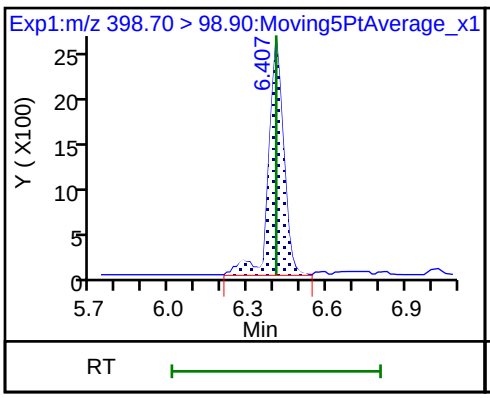
* 37 18O2 PFHxS



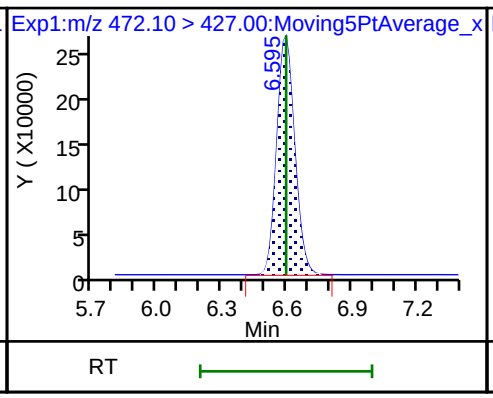
40 PFHxS



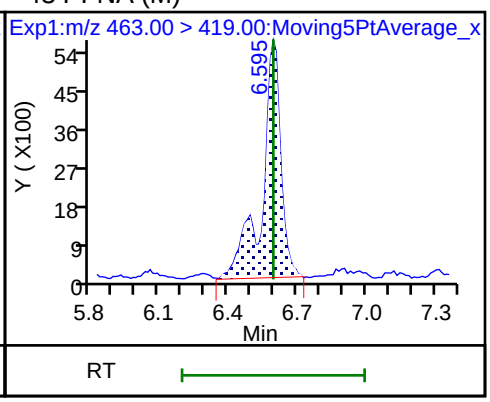
40 PFHxS



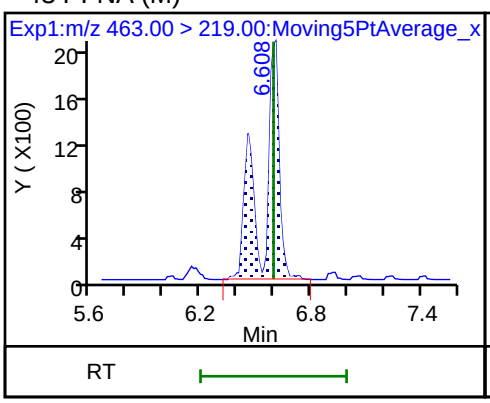
D 41 13C9 PFNA



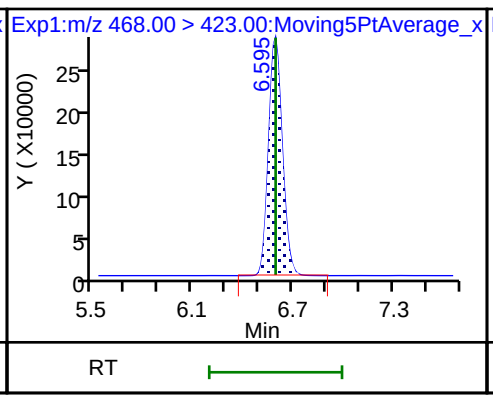
43 PFNA (M)



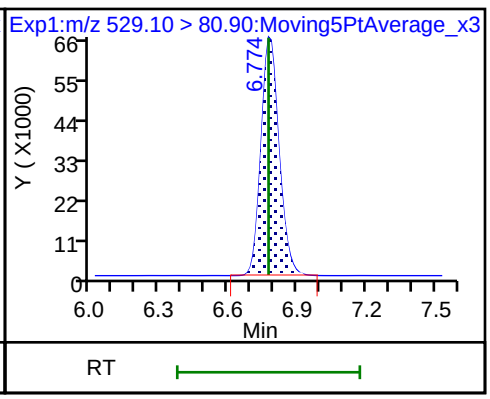
43 PFNA (M)



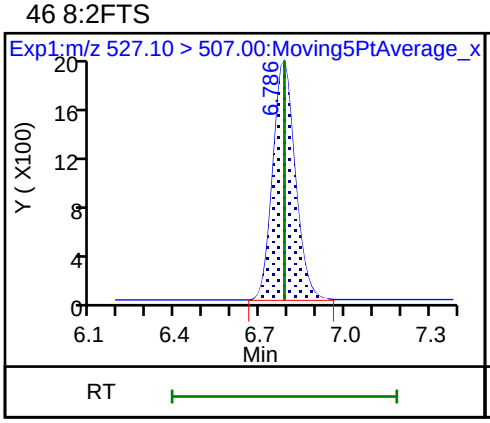
* 42 13C5 PFNA



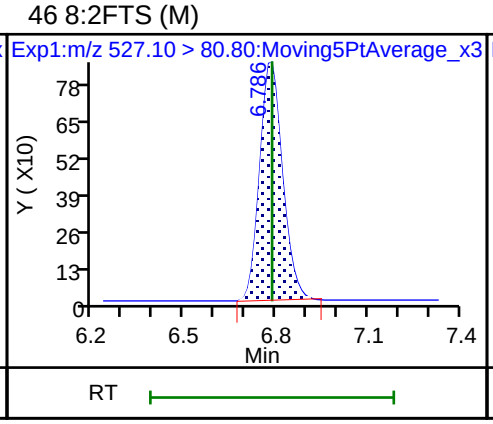
D 45 13C2-8:2FTS



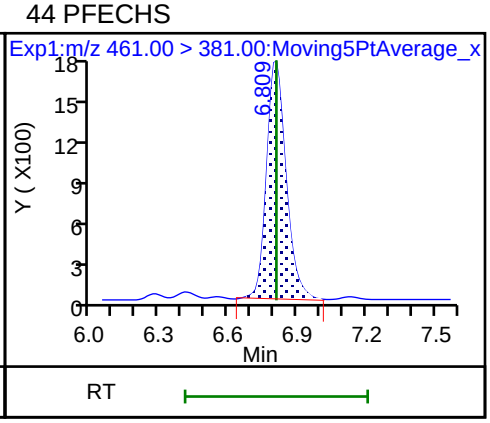
46 8:2FTS



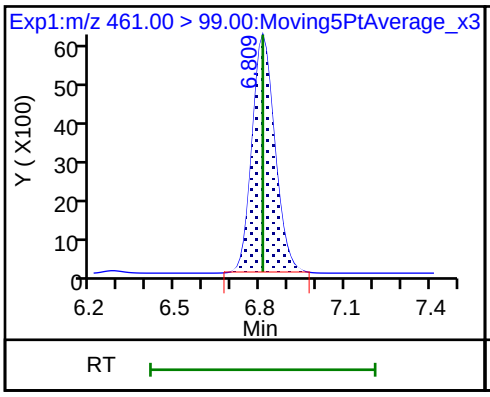
46 8:2FTS (M)



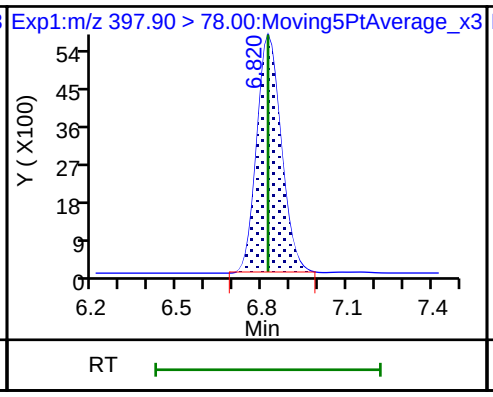
44 PFECHS



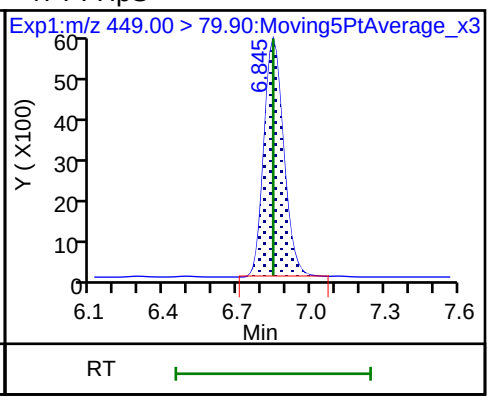
44 PFECHS



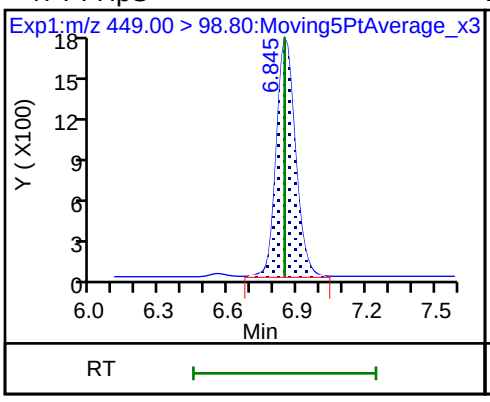
48 FHxSA



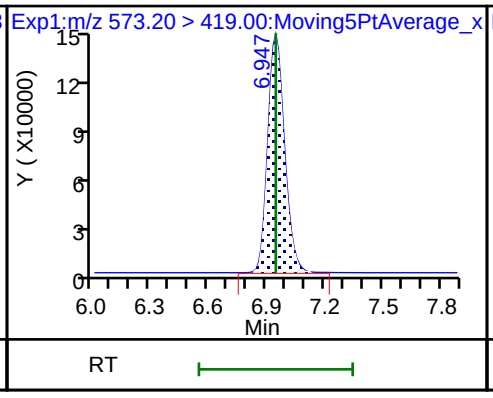
47 PFHpS



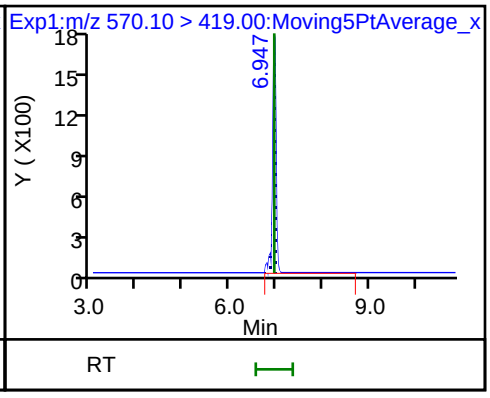
47 PFHpS



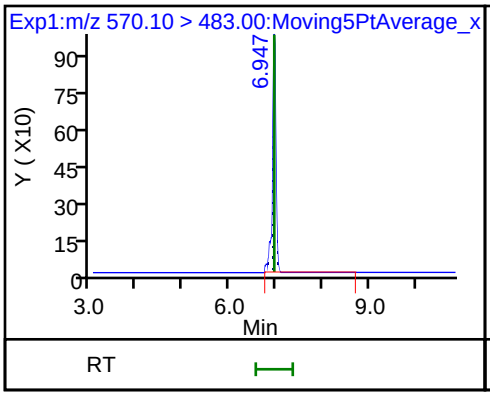
D 49 d3-NMeFOSAA



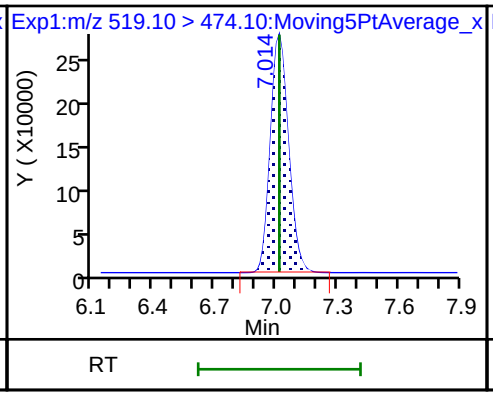
50 NMeFOSAA



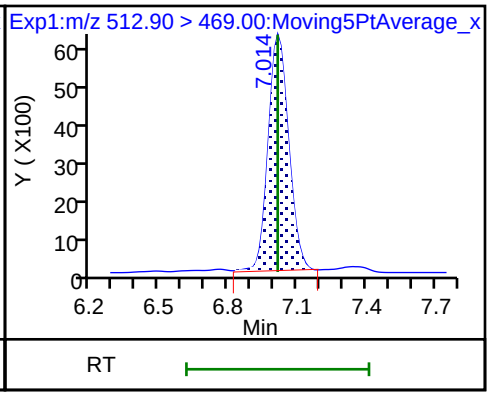
50 NMeFOSAA



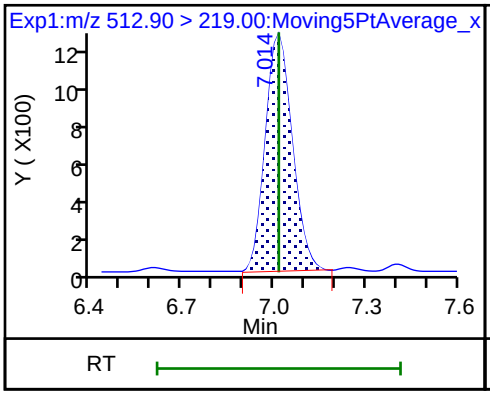
D 51 13C6 PFDA



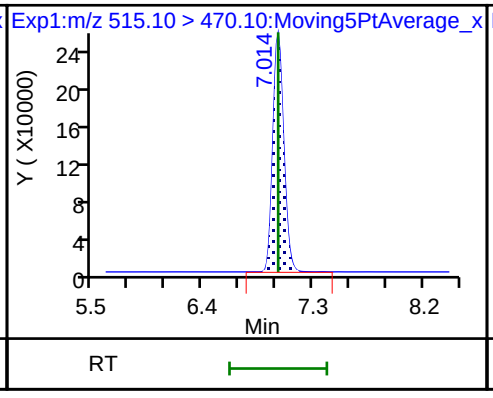
53 PFDA



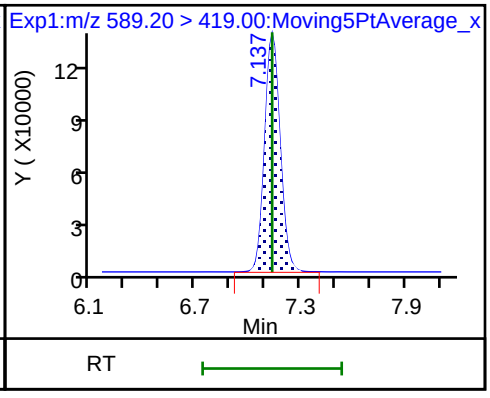
53 PFDA



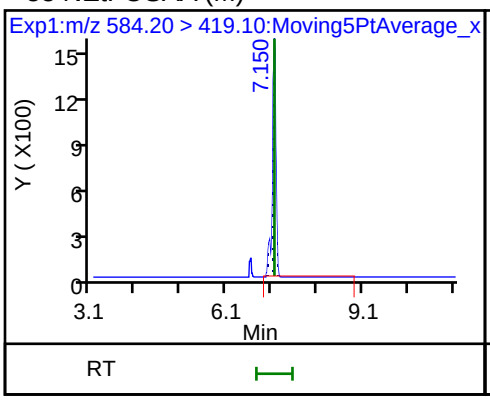
* 52 13C2 PFDA



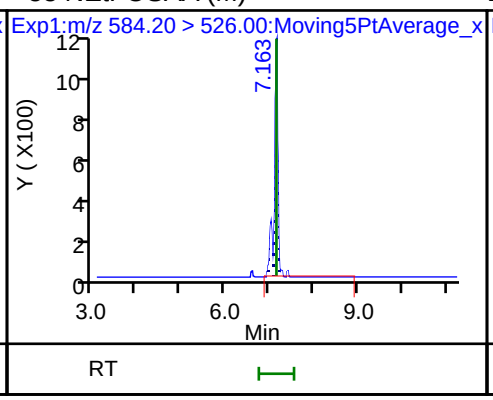
D 54 d5-NEtFOSAA



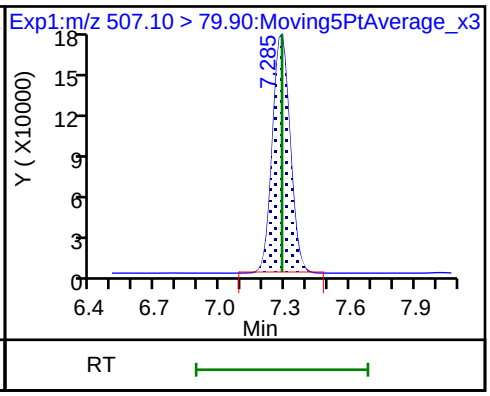
55 NEtFOSAA (M)



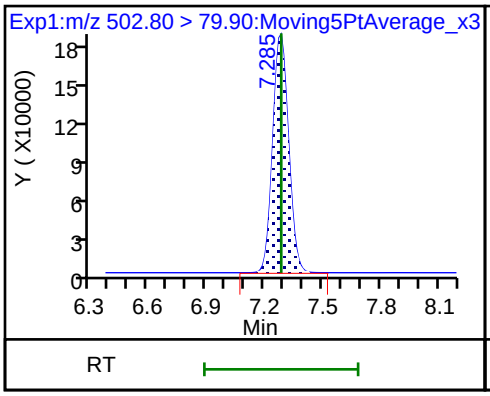
55 NEtFOSAA (M)



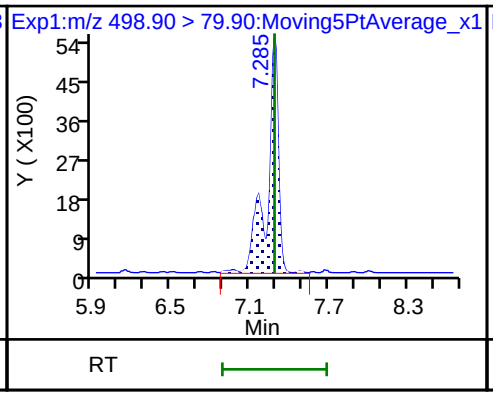
D 56 13C8 PFOS



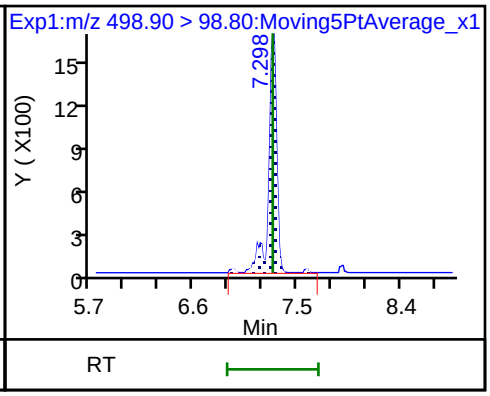
* 57 13C4 PFOS



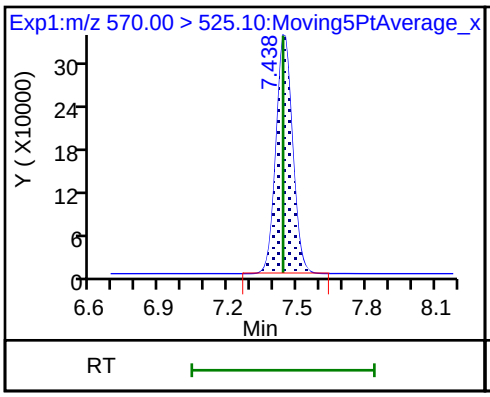
58 PFOS



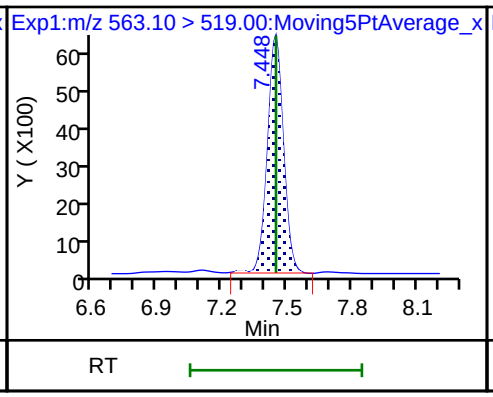
58 PFOS



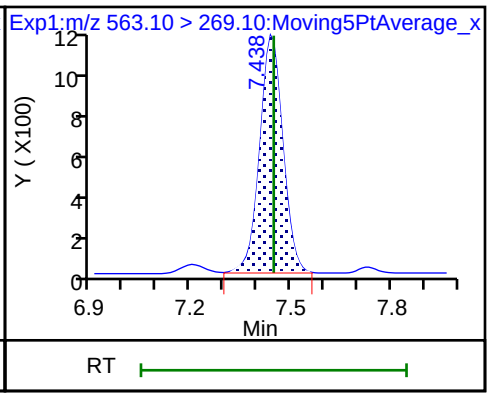
D 59 13C7 PFUnA



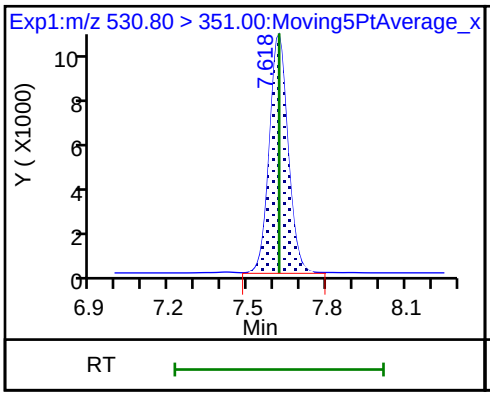
60 PFUnA



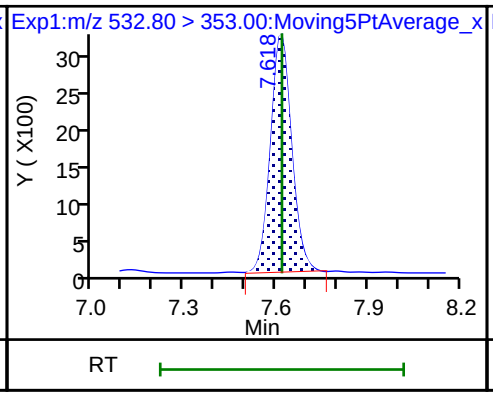
60 PFUnA



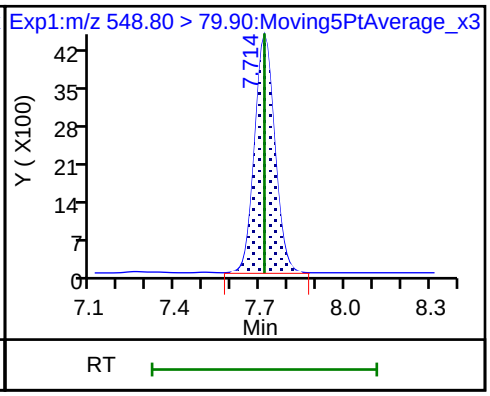
61 9ClFOS



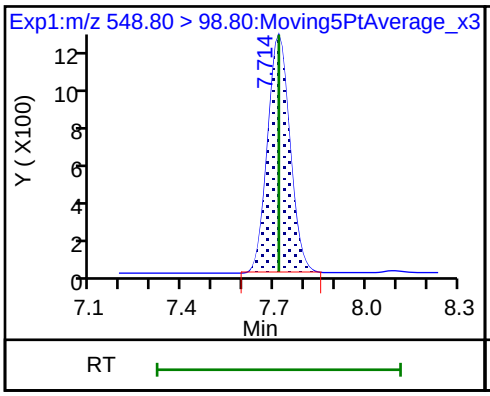
61 9ClFOS



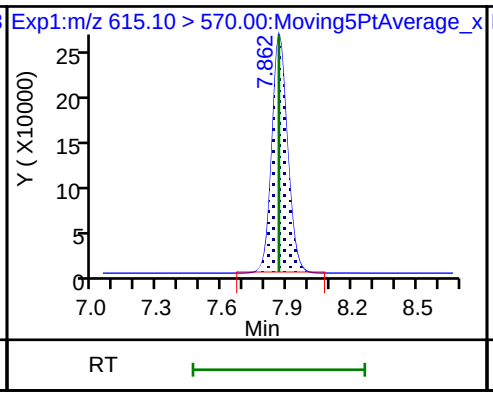
62 PFNS



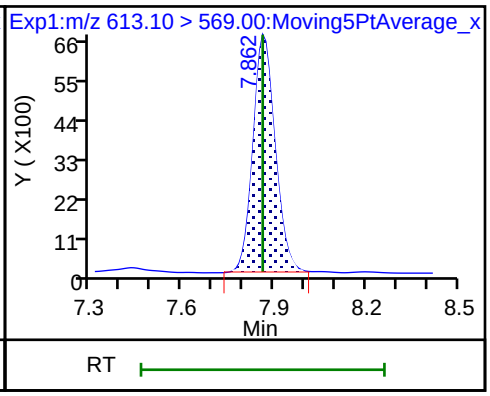
62 PFNS



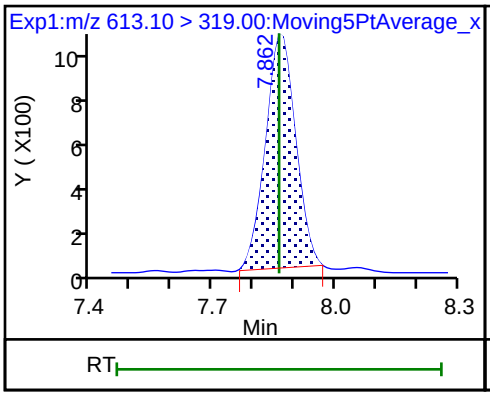
D 82 PFDoA



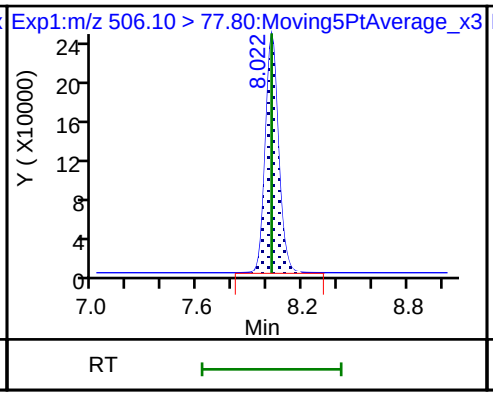
63 PFDoA



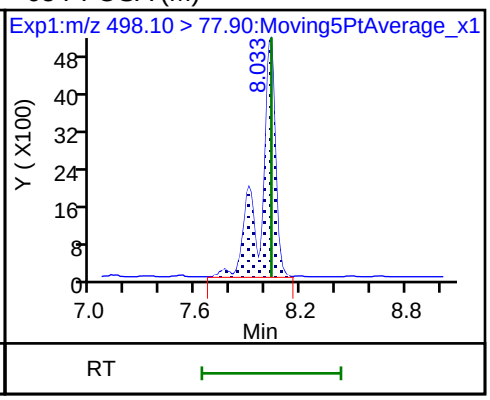
63 PFDoA



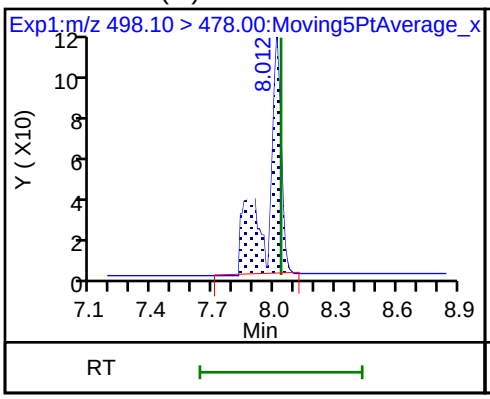
D 64 13C8 FOSA



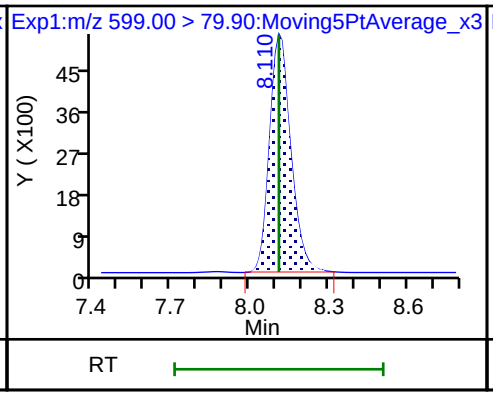
65 PFOSA (M)



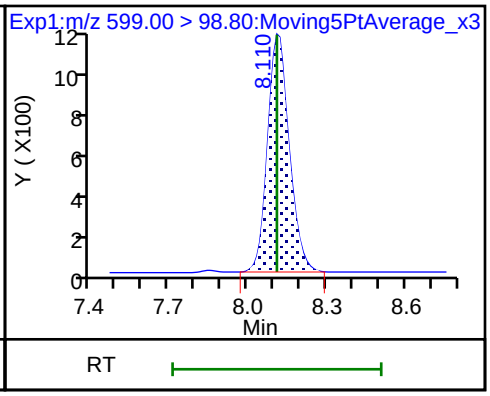
65 PFOSA (M)



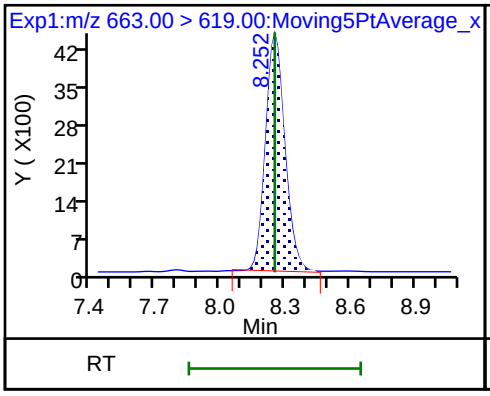
66 PFDS



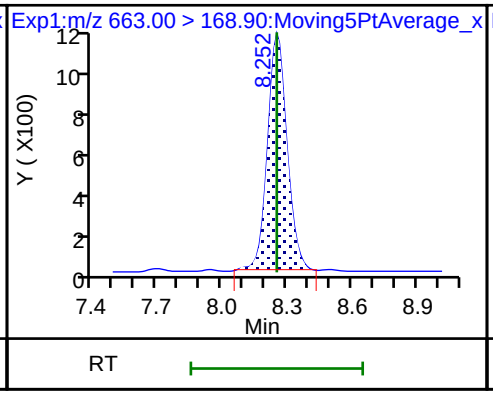
66 PFDS



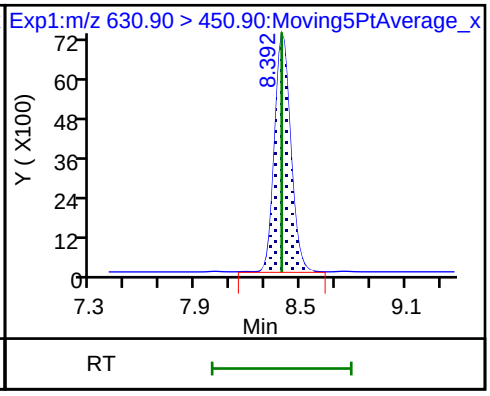
67 PFTrDA



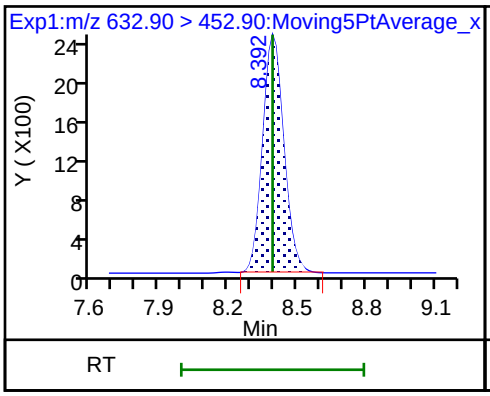
67 PFTrDA



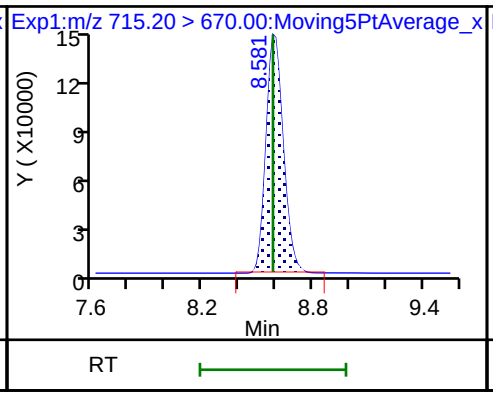
68 11ClFOS



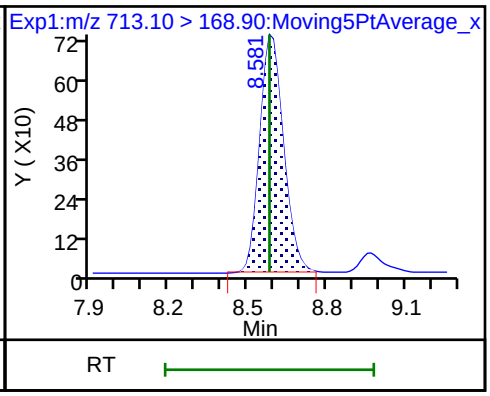
68 11ClFOS



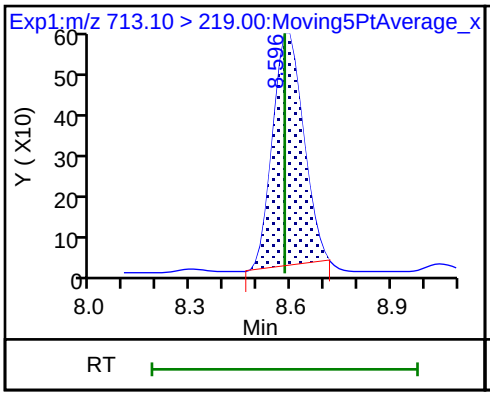
D 69 13C2 PFTeDA



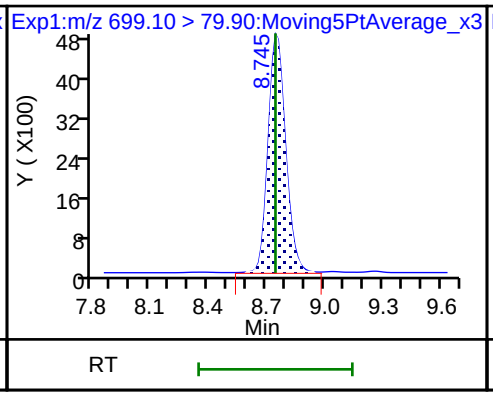
70 PFTeDA



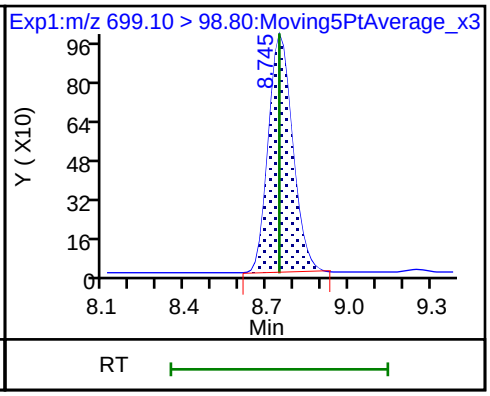
70 PFTeDA



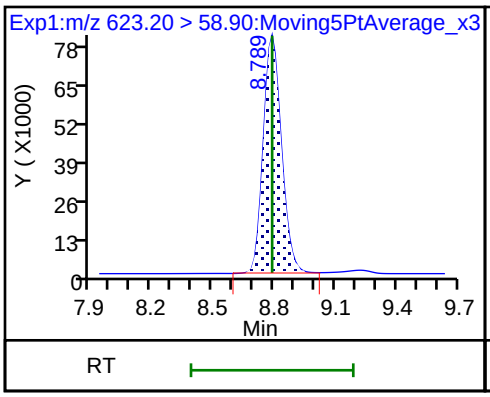
73 PFDoS



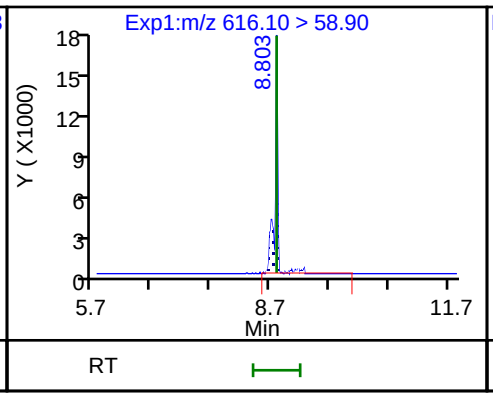
73 PFDoS



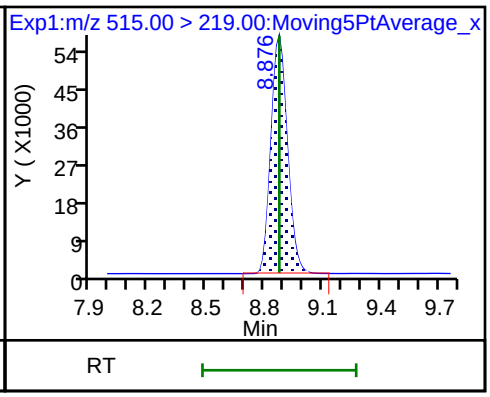
D 71 d7-N-Me-FOSE



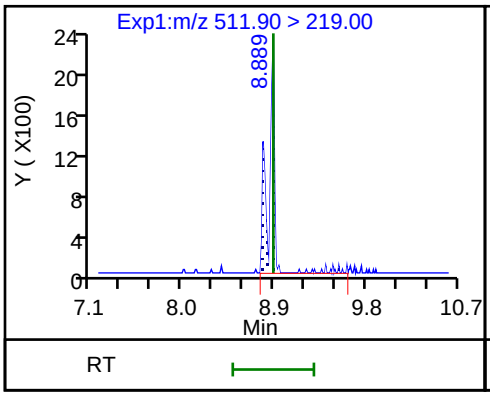
72 N-MeFOSE-M



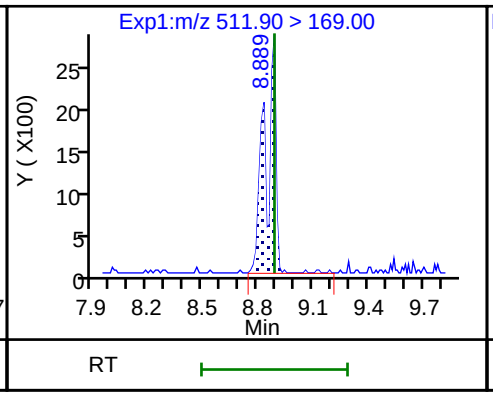
D 74 d3-NMePFOSA



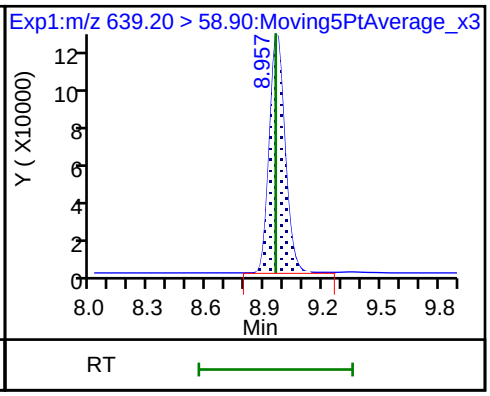
75 NMeFOSA



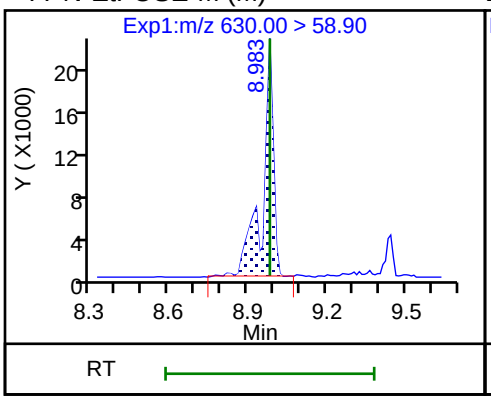
75 NMeFOSA



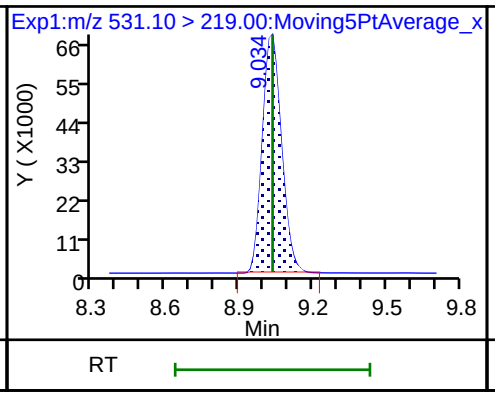
D 76 d9-N-EtFOSE



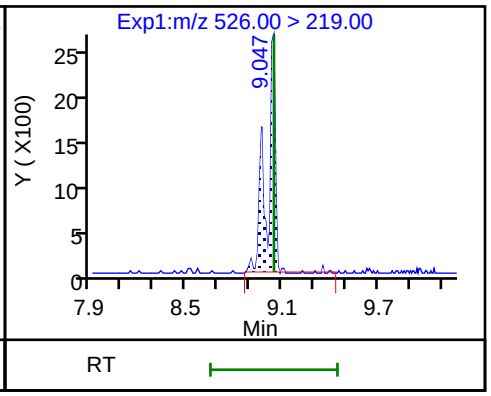
77 N-EtFOSE-M (M)



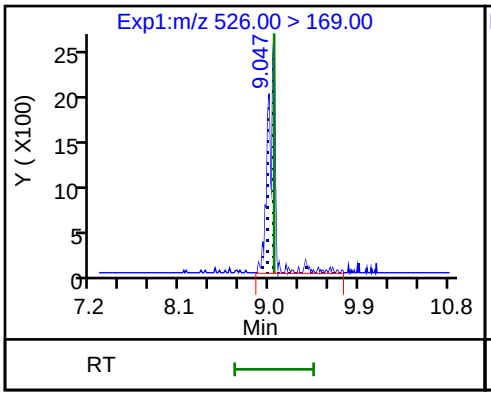
D 78 d5-NEtPFOSA



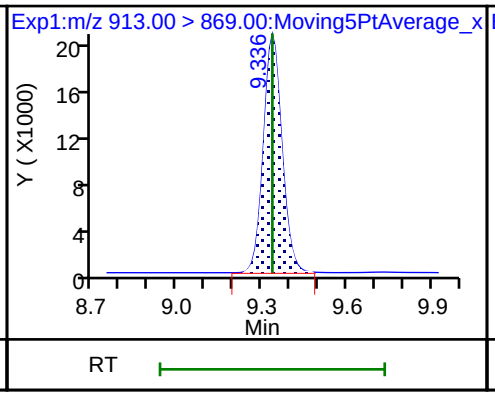
79 N-EtFOSA-M



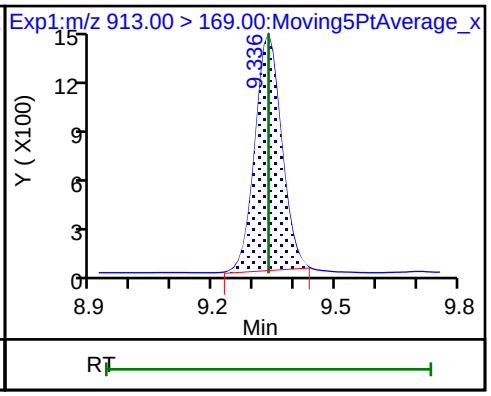
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCV 410-606840/2 Calibration Date: 02/17/2025 16:12

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9690	0.998		5.15	5.00	3.0	30.0
Perfluorobutanoic acid	AveID	0.8819	0.9183		2.08	2.00	4.1	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.732	1.792		1.03	1.00	3.5	30.0
3:3 FTCA	AveID	0.0931	0.1063		2.28	2.00	14.2	30.0
Perfluoropentanoic acid	AveID	1.502	1.640		1.09	1.00	9.2	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.586	1.614		1.02	1.00	1.8	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.487	1.648		2.07	1.87	10.9	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.8118	0.9348		1.15	1.00	15.2	30.0
Perfluorohexanoic acid	AveID	0.9309	1.004		1.08	1.00	7.9	30.0
5:3 FTCA	AveID	0.1694	0.1809		5.34	5.00	6.8	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.036	1.147		1.11	1.00	10.7	30.0
Perfluorobutanesulfonic acid	AveID	0.9838	1.076		0.971	0.888	9.4	30.0
HFPO-DA	AveID	0.999	1.076		0.808	0.750	7.7	30.0
PFEESA	AveID	2.736	2.936		0.957	0.892	7.3	30.0
Perfluoroheptanoic acid	AveID	0.9533	1.076		1.13	1.00	12.9	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.907	2.099		1.04	0.946	10.1	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	1.013		0.966	0.940	2.7	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.603	1.730		2.05	1.90	7.9	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	L2ID		2.390		1.00	0.979	2.3	30.0
Perfluorooctanoic acid	L2ID		0.8411		1.05	1.00	4.7	30.0
7:3 FTCA	AveID	0.1977	0.2011		5.09	5.00	1.7	30.0
Perfluorohexanesulfonic acid	AveID	0.8258	0.8466		0.935	0.912	2.5	30.0
Perfluorononanoic acid	AveID	0.8222	0.9178		1.12	1.00	11.6	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	1.392	1.561		2.15	1.92	12.1	30.0
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	AveID	0.3244	0.3464		0.986	0.924	6.8	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.213	1.339		1.10	1.00	10.4	30.0
Perfluoroheptanesulfonic acid	AveID	1.064	1.171		1.05	0.954	10.1	30.0
NMeFOSAA	AveID	1.004	1.079		1.07	1.00	7.4	30.0
Perfluorodecanoic acid	AveID	0.8618	0.9167		1.06	1.00	6.4	30.0
NEtFOSAA	L2ID		0.8648		0.968	1.00	-3.2	30.0
Perfluorooctanesulfonic acid	AveID	1.272	1.409		1.03	0.930	10.8	30.0
Perfluoroundecanoic acid	AveID	0.8044	0.8662		1.08	1.00	7.7	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.220	1.410		1.08	0.934	15.6	30.0
Perfluorononanesulfonic acid	AveID	0.8702	0.999		1.10	0.962	14.8	30.0

FORM VII 1633

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCV 410-606840/2 Calibration Date: 02/17/2025 16:12

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorododecanoic acid	AveID	0.9366	0.9833		1.05	1.00	5.0	30.0
Perfluorooctanesulfonamide	AveID	0.9022	0.9166		1.02	1.00	1.6	30.0
Perfluorodecanesulfonic acid	AveID	0.9300	1.102		1.14	0.964	18.5	30.0
Perfluorotridecanoic acid	AveID	1.144	1.157		1.01	1.00	1.2	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.151	1.311		1.08	0.944	13.9	30.0
Perfluorotetradecanoic acid	AveID	0.1752	0.1893		1.08	1.00	8.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.026	1.270		1.20	0.970	23.8	30.0
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.842	2.062		5.60	5.00	12.0	30.0
NMeFOSA	AveID	1.039	1.085		1.04	1.00	4.4	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	1.825	2.047		5.61	5.00	12.2	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	1.073	1.101		1.03	1.00	2.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	2.547	4.197		1.65	1.00	64.8*	30.0
13C3 PFPrA	Ave	0.6389	0.5676		1.78	2.00	-11.2	30.0
13C4 PFBA	Ave	1.068	1.073		2.01	2.00	0.4	30.0
13C5 PFPeA	Ave	0.6101	0.6033		1.98	2.00	-1.1	30.0
M2-4:2 FTS	Ave	0.1577	0.1316		3.92	4.69	-16.5	30.0
13C5 PFHxA	Ave	0.8841	0.8639		1.95	2.00	-2.3	30.0
13C3 PFBS	Ave	1.096	1.094		1.86	1.86	-0.2	30.0
13C3 HFPO-DA	Ave	1.093	1.061		1.94	2.00	-2.9	30.0
13C4 PFHpA	Ave	0.8968	0.8911		1.99	2.00	-0.6	30.0
M2-6:2 FTS	Ave	0.1652	0.1409		4.06	4.76	-14.7	30.0
13C8 PFOA	Ave	1.067	1.111		2.08	2.00	4.1	30.0
13C3 PFHxS	Ave	1.025	0.9667		1.79	1.90	-5.7	30.0
13C9 PFNA	Ave	1.024	0.996		1.94	2.00	-2.8	30.0
M2-8:2 FTS	Ave	0.1424	0.1133		3.82	4.80	-20.4	30.0
d3-NMeFOSAA	Ave	0.3484	0.3449		4.95	5.00	-1.0	30.0
13C6 PFDA	Ave	1.054	1.004		1.90	2.00	-4.8	30.0
d5-NEtFOSAA	Ave	0.2858	0.2840		4.97	5.00	-0.6	30.0
13C8 PFOS	Ave	1.024	0.9535		1.78	1.91	-6.9	30.0
13C7 PFUnA	Ave	0.9841	0.9515		1.93	2.00	-3.3	30.0
13C2 PFDoA	Ave	0.8279	0.8407		2.03	2.00	1.5	30.0
13C8 FOSA	Ave	1.220	1.168		1.92	2.00	-4.2	30.0
13C2 PFTeDA	Ave	0.5852	0.5827		1.99	2.00	-0.4	30.0
d7-N-MeFOSE-M	Ave	0.1897	0.1829		4.82	5.00	-3.6	30.0
d3-NMePFOSA	Ave	0.3203	0.3071		1.92	2.00	-4.1	30.0
d9-N-EtFOSE-M	Ave	0.2468	0.2503		5.07	5.00	1.4	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCV 410-606840/2 Calibration Date: 02/17/2025 16:12

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d5-NEtPFOSA	Ave	0.3610	0.3553		1.97	2.00	-1.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-02.d
Lims ID: CCV 2_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 17-Feb-2025 16:12:33 ALS Bottle#: 5 Worklist Smp#: 2
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 2_CAL4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:26 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 16:52:05
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.086	2.102	-0.016	0.992	1918176	5.15		103	5988	
D 1 13C3PFPrA										
166.00 > 121.00	2.102	2.118	-0.016	0.497	768540	1.78		88.8	16274	
5 PFBA										
212.80 > 168.90	4.216	4.216	0.0	1.000	1334136	2.08		104	13469	
D 3 13C4-PFBA										
216.80 > 171.90	4.216	4.224	-0.008	0.998	1452817	2.01		100	76576	
* 4 13C3PFBA										
216.00 > 172.00	4.225	4.224	0.001		1354127	2.00			23772	
6 PFMPA										
229.00 > 84.90	4.528	4.540	-0.012	0.933	704592	1.03		103	34125	
7 3:3 FTCA										
241.00 > 177.00	4.540	4.551	-0.011	0.936	83608	2.28	Target=1.15	114	5505	
241.00 > 117.00	4.540	4.551	-0.011	0.936	71463		1.17(0.58-1.73)		4721	
D 8 13C5 PFPeA										
268.30 > 223.00	4.852	4.866	-0.014	0.912	786321	1.98		98.9	50891	
9 PFPA										
263.00 > 219.00	4.863	4.866	-0.003	1.002	644774	1.09		109	20677	
10 PFMBA										
279.00 > 85.10	5.007	5.020	-0.013	1.032	634442	1.02		102	41343	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.124	5.139	-0.015	0.802	350606	3.92		83.5	16092	
12 4:2FTS										
327.10 > 307.00	5.124	5.139	-0.015	1.000	230202	2.07	Target=1.45	111	13819	
327.10 > 80.90	5.124	5.139	-0.015	1.000	159236		1.45(0.73-2.18)		5737	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.268	5.283	-0.015	0.991	526313	1.15	Target=1.37	115	30700	
295.00 > 84.90	5.268	5.283	-0.015	0.991	354305		1.49(0.68-2.05)		20592	
D 15 13C5 PFHxA										
318.00 > 273.00	5.317	5.318	-0.001	1.000	1126067	1.95		97.7	65620	
* 16 13C2 PFHxA										
315.10 > 270.00	5.317	5.318	-0.001		3258504	5.00			190481	
17 PFHxA										
313.00 > 269.00	5.317	5.318	-0.001	1.000	565296	1.08	Target=10.68	108	24874	
313.00 > 118.90	5.317	5.318	-0.001	1.000	50099		11.28(5.34-16.02)		2922	
20 5:3 FTCA										
341.00 > 237.10	5.398	5.400	-0.002	1.015	509390	5.34	Target=0.98	107	27609	
341.00 > 217.00	5.398	5.400	-0.002	1.015	549704		0.93(0.49-1.47)		29823	
25 FBSA										
297.90 > 78.00	5.441	5.442	-0.001	0.997	712625	1.11		111	37104	
19 PFBS										
298.70 > 79.90	5.455	5.456	-0.001	1.000	593809	0.9713	Target=2.96	109	31663	
298.70 > 98.80	5.455	5.456	-0.001	1.000	195329		3.04(1.48-4.44)		10395	
D 18 13C3 PFBS										
302.10 > 79.90	5.455	5.456	-0.001	0.853	1158286	1.86		99.8	61452	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.498	5.514	-0.016	1.034	1383359	1.94		97.1	74985	
22 HFPO-DA										
284.90 > 168.90	5.498	5.514	-0.016	1.000	558084	0.8081	Target=2.37	108	14931	
284.90 > 184.90	5.498	5.514	-0.016	1.000	218758		2.55(1.19-3.56)		8837	
24 PFEESA										
314.80 > 134.90	5.693	5.709	-0.016	1.071	1474309	0.9572	Target=11.81	107	82584	
314.80 > 82.90	5.693	5.709	-0.016	1.071	129276		11.40(5.90-17.71)		7247	
28 PFHpA										
363.10 > 319.00	5.746	5.760	-0.014	1.000	624962	1.13	Target=2.56	113	27427	
363.10 > 169.00	5.746	5.760	-0.014	1.000	233637		2.67(1.28-3.85)		13620	
D 26 13C4 PFHpA										
367.10 > 322.00	5.746	5.760	-0.014	1.081	1161510	1.99		99.4	68131	
30 ADONA										
376.90 > 250.90	5.903	5.916	-0.013	1.074	1373731	1.04	Target=1.81	110	20155	
376.90 > 84.80	5.903	5.916	-0.013	1.074	800171		1.72(0.90-2.71)		51120	
29 PFPeS										
349.10 > 79.90	5.948	5.960	-0.012	0.930	522577	0.9656	Target=3.25	103	25220	
349.10 > 98.90	5.937	5.960	-0.023	0.929	169745		3.08(1.63-4.88)		10932	
32 6:2FTS										
427.10 > 407.00	5.959	5.960	-0.001	1.000	262467	2.05	Target=1.57	108	17584	
427.10 > 80.90	5.948	5.960	-0.012	0.998	162301		1.62(0.78-2.35)		10844	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.959	5.971	-0.012	0.932	380783	4.06		85.3	25119	
33 BTS										
280.00 > 147.00	6.097	6.110	-0.013	0.954	1284550	1.00		102	78805	
D 34 13C8 PFOA										
421.10 > 376.00	6.169	6.183	-0.014	1.000	1660030	2.08		104	75863	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.169	6.183	-0.014	1.000	698130	1.05	Target=2.35	105	21552	
413.00 > 169.00	6.169	6.183	-0.014	1.000	302045		2.31(1.18-3.53)		51971	
* 35 13C4 PFOA										
417.10 > 372.00	6.169	6.183	-0.014		3736877	5.00			694419	
39 7:3 FTCA										
441.00 > 316.90	6.241	6.243	-0.002	1.174	566073	5.09	Target=0.90	102	33264	
441.00 > 336.90	6.241	6.243	-0.002	1.174	657219		0.86(0.45-1.35)		39163	
* 37 18O2 PFHxS										
403.00 > 83.90	6.393	6.407	-0.014		1074443	1.89			63300	
40 PFHxS										
398.70 > 79.90	6.405	6.407	-0.002	1.002	423862	0.9350	Target=3.23	103	42011	
398.70 > 98.90	6.405	6.407	-0.002	1.002	130998		3.24(1.62-4.85)		28034	
D 38 13C3 PFHxS										
402.10 > 79.90	6.393	6.407	-0.014	1.000	1040876	1.79		94.3	61209	
* 42 13C5 PFNA										
468.00 > 423.00	6.581	6.595	-0.014		1390647	2.00			60201	
D 41 13C9 PFNA										
472.10 > 427.00	6.581	6.595	-0.014	1.000	1384761	1.94		97.2	60394	
43 PFNA										
463.00 > 419.00	6.593	6.595	-0.002	1.002	635447	1.12	Target=2.70	112	63382	
463.00 > 219.00	6.593	6.595	-0.002	1.002	215299		2.95(1.35-4.05)		32045	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.772	6.774	-0.002	1.059	308921	3.82		79.6	19129	
46 8:2FTS										
527.10 > 507.00	6.772	6.786	-0.014	1.000	192478	2.15	Target=1.51	112	11994	
527.10 > 80.80	6.772	6.786	-0.014	1.000	129452		1.49(0.75-2.26)		8079	
44 PFECHS										
461.00 > 381.00	6.795	6.809	-0.014	1.063	175691	0.9865	Target=0.29	107	10475	
461.00 > 99.00	6.795	6.809	-0.014	1.063	620329		0.28(0.15-0.44)		37040	
48 FHxSA										
397.90 > 78.00	6.807	6.820	-0.013	1.065	735055	1.10		110	42420	
47 PFHpS										
449.00 > 79.90	6.830	6.845	-0.015	0.939	534005	1.05	Target=3.66	110	31377	
449.00 > 98.80	6.830	6.845	-0.015	0.939	143378		3.72(1.83-5.49)		8479	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.944	6.947	-0.003	0.955	864232	4.95		99.0	47860	
50 NMeFOSAA										
570.10 > 419.00	6.944	6.947	-0.003	1.000	186438	1.07	Target=1.83	107	38165	
570.10 > 483.00	6.944	6.947	-0.003	1.000	100557		1.85(0.91-2.74)		18771	
D 51 13C6 PFDA										
519.10 > 474.10	6.998	7.014	-0.016	0.998	1427072	1.90		95.2	57622	
53 PFDA										
512.90 > 469.00	7.011	7.014	-0.003	1.002	654075	1.06	Target=5.26	106	26370	
512.90 > 219.00	7.011	7.014	-0.003	1.002	130431		5.01(2.63-7.89)		6939	
* 52 13C2 PFDA										
515.10 > 470.10	7.011	7.014	-0.003		1421569	2.00			76173	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.120	7.137	-0.017	0.979	711467	4.97		99.4	38600	
55 NEtFOSAA										
584.20 > 419.10	7.134	7.150	-0.016	1.002	123055	0.9684	Target=1.37	96.8	24226	
584.20 > 526.00	7.134	7.150	-0.016	1.002	95681		1.29(0.69-2.06)		18132	
D 56 13C8 PFOS										
507.10 > 79.90	7.270	7.285	-0.015	1.000	913583	1.78		93.1	20325	
* 57 13C4 PFOS										
502.80 > 79.90	7.270	7.285	-0.015		958098	1.91			56774	
58 PFOS										
498.90 > 79.90	7.282	7.285	-0.003	1.002	626113	1.03	Target=4.45	111	118117	
498.90 > 98.80	7.282	7.285	-0.003	1.002	141771		4.42(2.23-6.68)		29416	
D 59 13C7 PFUnA										
570.00 > 525.10	7.436	7.438	-0.002	1.061	1352657	1.93		96.7	90112	
60 PFUnA										
563.10 > 519.00	7.436	7.448	-0.012	1.000	585822	1.08	Target=6.24	108	29116	
563.10 > 269.10	7.436	7.448	-0.012	1.000	90872		6.45(3.12-9.36)		6006	
61 9ClFOS										
530.80 > 351.00	7.607	7.618	-0.011	1.384	911018	1.08	Target=3.02	116	63370	
532.80 > 353.00	7.607	7.618	-0.011	1.384	297596		3.06(1.51-4.54)		20749	
62 PFNS										
548.80 > 79.90	7.702	7.714	-0.012	1.059	459135	1.10	Target=3.66	115	31083	
548.80 > 98.80	7.702	7.714	-0.012	1.059	118711		3.87(1.83-5.49)		7958	
D 82 PFDoA										
615.10 > 570.00	7.849	7.862	-0.013	1.120	1195138	2.03		102	79313	
63 PFDoA										
613.10 > 569.00	7.858	7.862	-0.004	1.001	587614	1.05	Target=6.35	105	29283	
613.10 > 319.00	7.849	7.862	-0.013	1.000	94131		6.24(3.17-9.52)		6212	
D 64 13C8 FOSA										
506.10 > 77.80	8.019	8.022	-0.003	1.103	1170781	1.92		95.8	74837	
65 PFOSA										
498.10 > 77.90	8.019	8.033	-0.014	1.000	536597	1.02	Target=40.87	102	95354	
498.10 > 478.00	8.019	8.033	-0.014	1.000	11324		47.39(20.44-61.31)		2112	
66 PFDS										
599.00 > 79.90	8.105	8.110	-0.005	1.115	507718	1.14	Target=3.79	119	31299	
599.00 > 98.80	8.105	8.110	-0.005	1.115	130963		3.88(1.90-5.69)		8127	
67 PFTrDA										
663.00 > 619.00	8.244	8.252	-0.008	0.962	585527	1.01	Target=5.85	101	31723	
663.00 > 168.90	8.244	8.252	-0.008	0.962	100897		5.80(2.93-8.78)		5379	
68 11ClFOS										
630.90 > 450.90	8.384	8.392	-0.008	1.525	855766	1.08	Target=3.00	114	45186	
632.90 > 452.90	8.384	8.392	-0.008	1.525	274996		3.11(1.50-4.50)		14527	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.573	8.581	-0.008	1.223	828352	1.99		99.6	42235	
70 PFTeDA										
713.10 > 168.90	8.573	8.581	-0.008	1.000	78410	1.08	Target=1.17	108	3972	
713.10 > 219.00	8.573	8.581	-0.008	1.000	68216		1.15(0.58-1.75)		3448	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.736	8.745	-0.009	1.202	588643	1.20	Target=4.47	124	31469	
699.10 > 98.80	8.736	8.745	-0.009	1.202	135655		4.34(2.23-6.70)		7280	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.795	8.789	0.006	1.210	458317	4.82		96.4	7387	
72 N-MeFOSE-M										
616.10 > 58.90	8.809	8.803	0.006	1.002	944916	5.60		112	4081	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.881	8.876	0.005	1.222	307768	1.92		95.9	13019	
75 NMeFOSA										
511.90 > 219.00	8.881	8.889	-0.008	1.000	166977	1.04	Target=0.74	104	1193	
511.90 > 169.00	8.881	8.889	-0.008	1.000	240972		0.69(0.37-1.12)		57735	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.961	8.957	0.004	1.233	627149	5.07		101	16193	
77 N-EtFOSE-M										
630.00 > 58.90	8.987	8.983	0.004	1.003	1283583	5.61		112	9598	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.025	9.034	-0.009	1.241	356081	1.97		98.4	16276	
79 N-EtFOSA-M										
526.00 > 219.00	9.038	9.047	-0.009	1.001	196061	1.03	Target=0.80	103	1423	
526.00 > 169.00	9.038	9.047	-0.009	1.001	244426		0.80(0.40-1.20)		61658	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.320	9.336	-0.016	1.087	1738407	1.65	Target=14.94	165	75521	
913.00 > 169.00	9.320	9.336	-0.016	1.087	115022		15.11(7.47-22.41)		8247	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00027 Amount Added: 1.00 Units: mL

Report Date: 17-Feb-2025 18:30:27 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-02.d

Injection Date: 17-Feb-2025 16:12:33 Instrument ID: 30576

Lims ID: CCV 2_CAL4

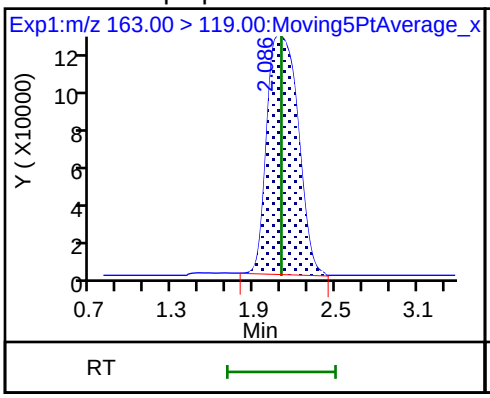
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 5 Worklist Smp#: 2

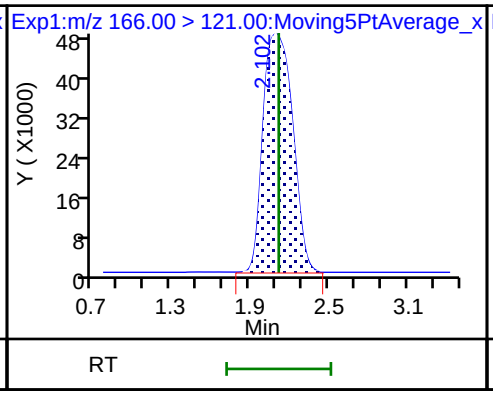
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

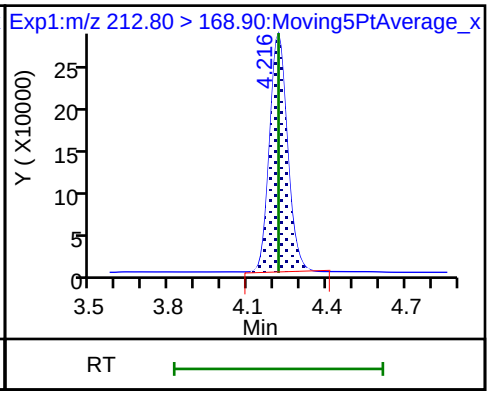
2 Perfluoropropionic acid



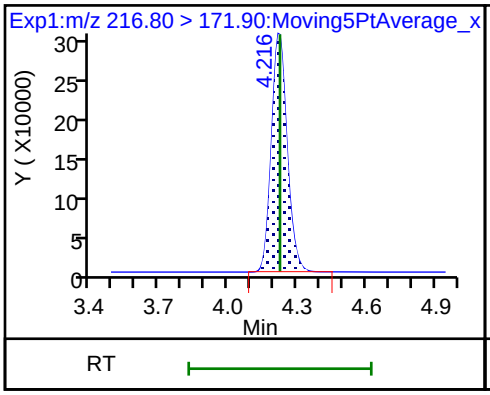
D 1 13C3PFPrA



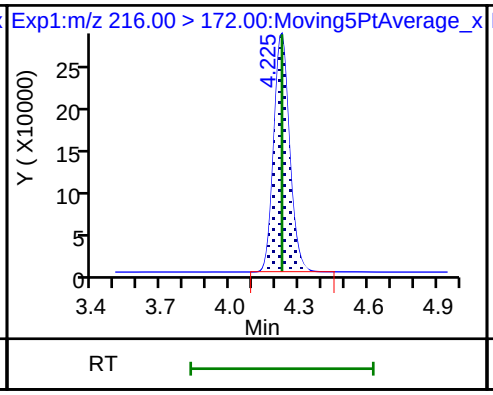
5 PFBA



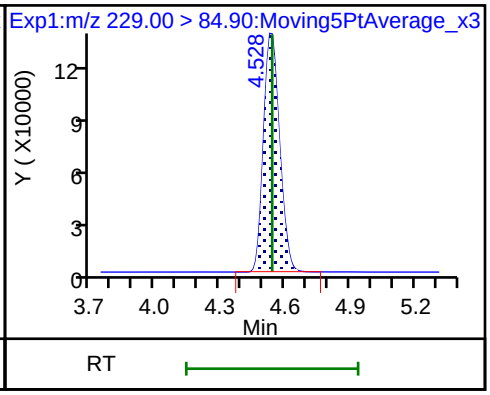
D 3 13C4-PFBA



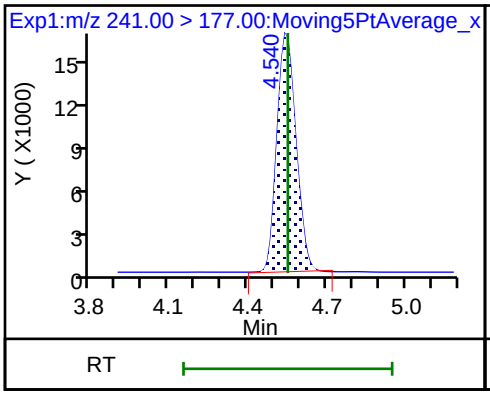
* 4 13C3PFBA



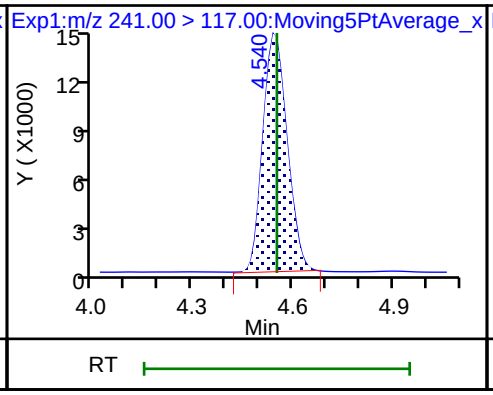
6 PFMPA



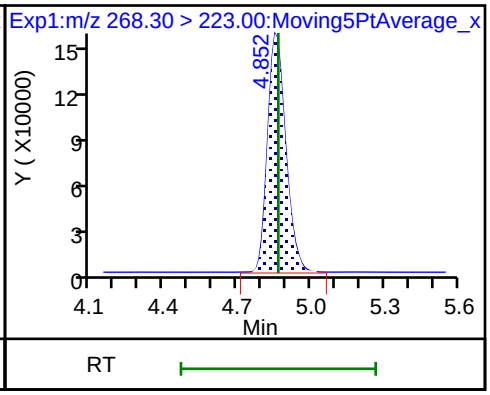
7 3:3 FTCA



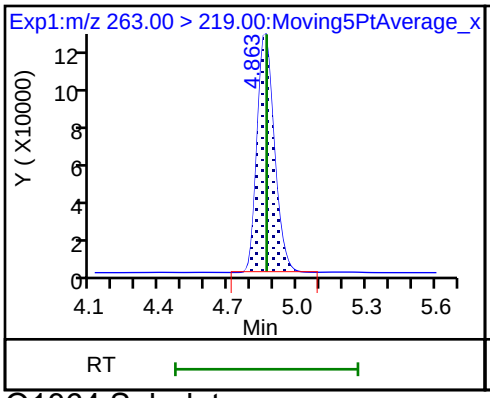
7 3:3 FTCA



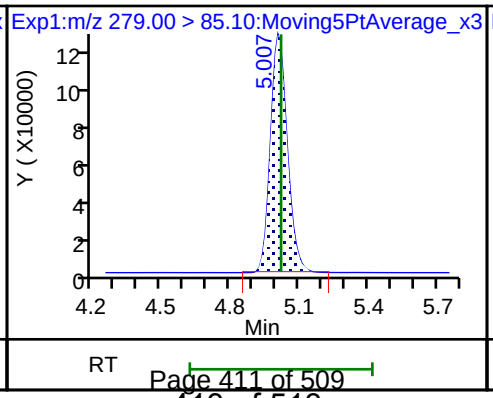
D 8 13C5 PFPeA



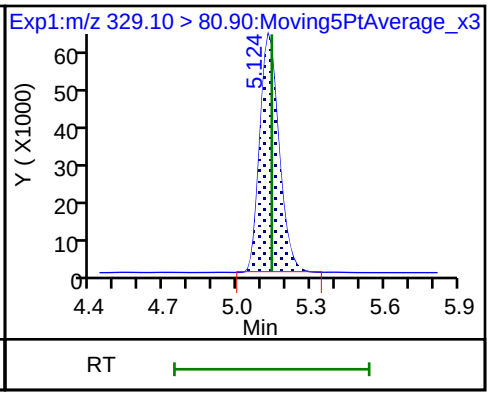
9 PFPA



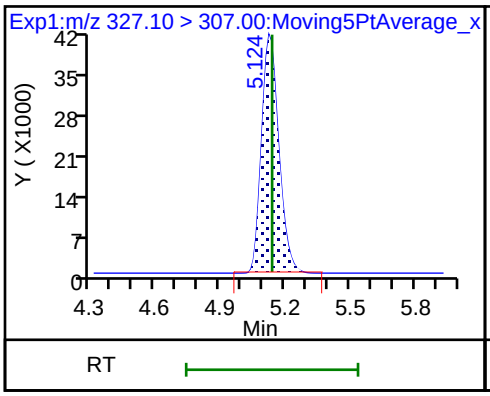
10 PFMBA



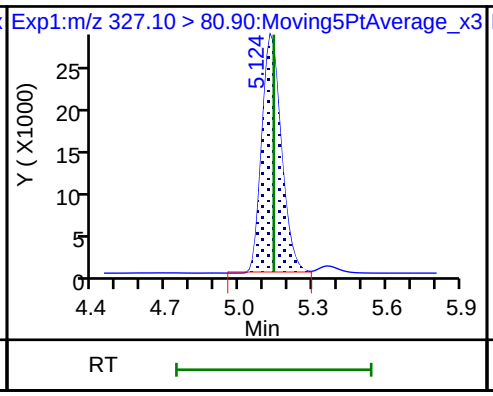
D 11 13C2-4:2FTS



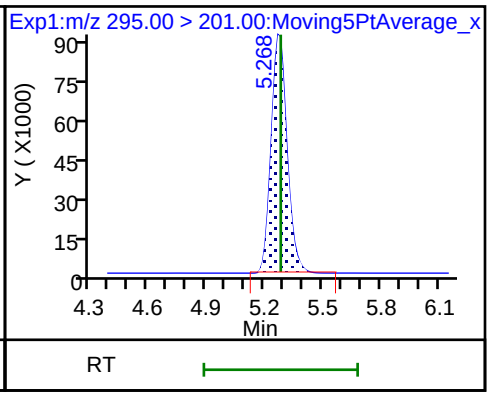
12 4:2FTS



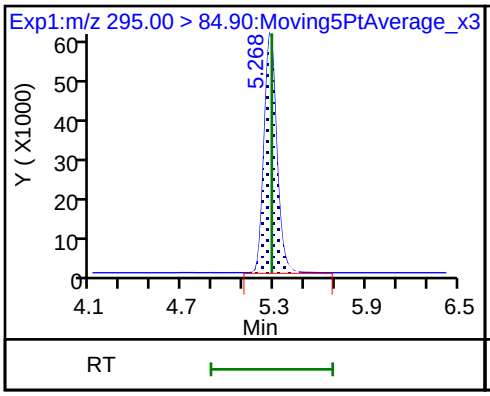
12 4:2FTS



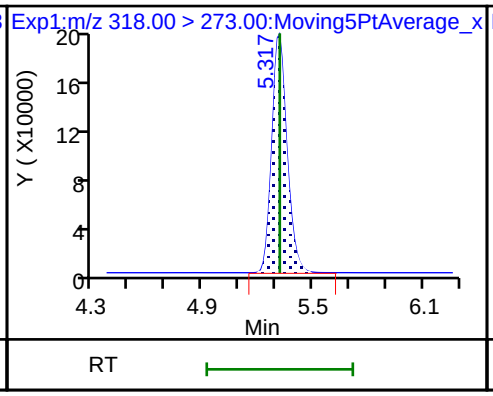
14 NFDHA



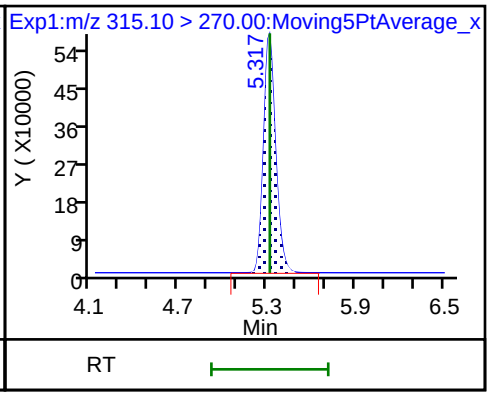
14 NFDHA



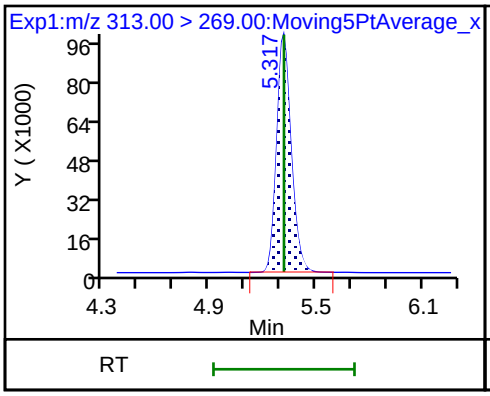
D 15 13C5 PFHxA



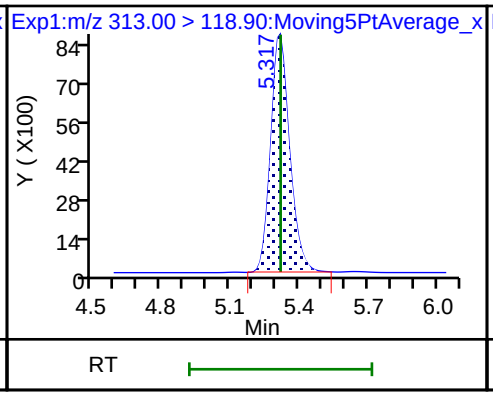
* 16 13C2 PFHxA



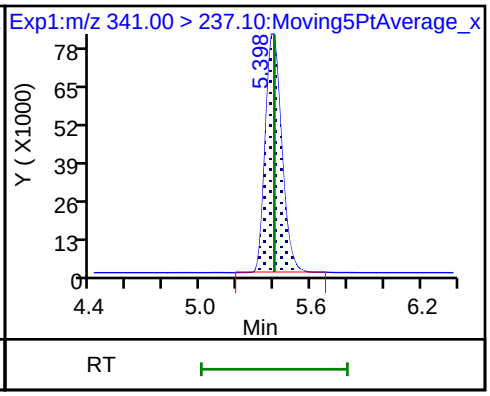
17 PFHxA



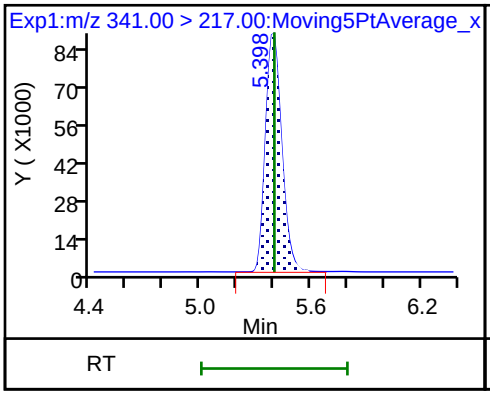
17 PFHxA



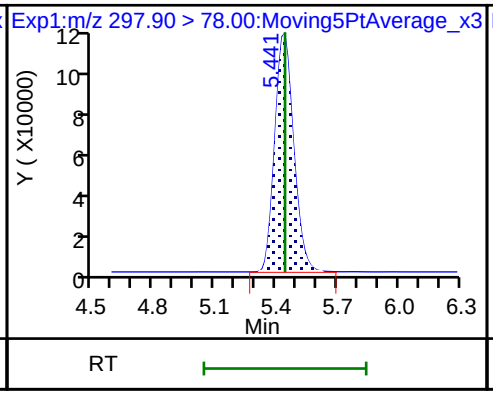
20 5:3 FTCA



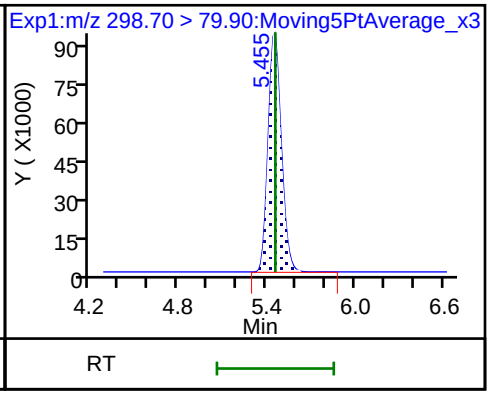
20 5:3 FTCA



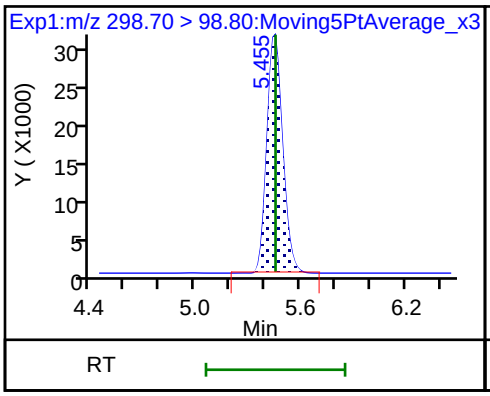
25 FBSA



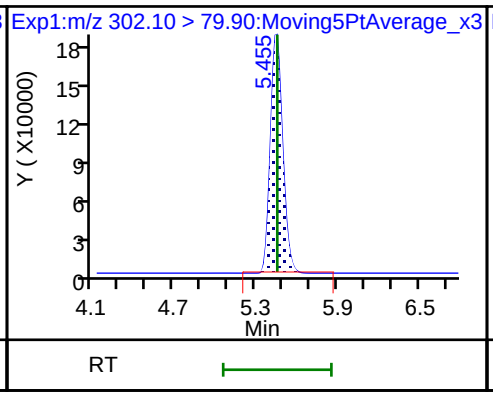
19 PFBS



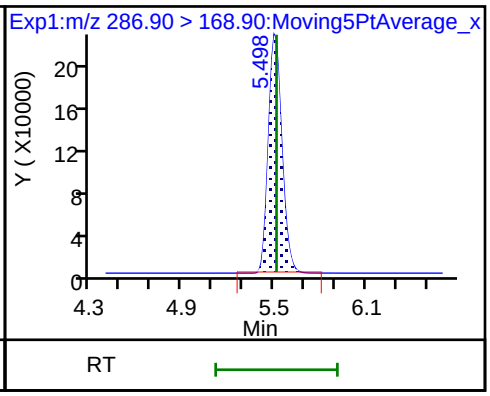
19 PFBS



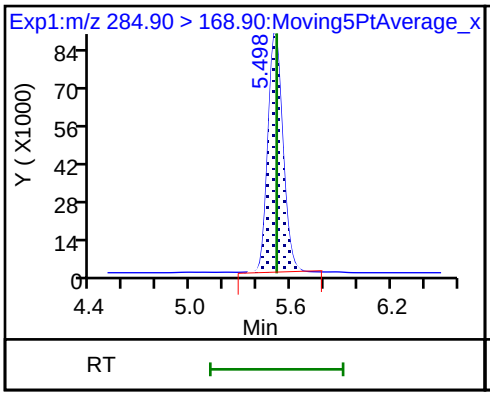
D 18 13C3 PFBS



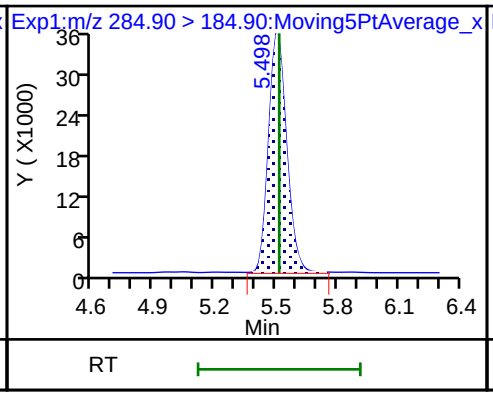
D 21 13C3 HFPO-DA



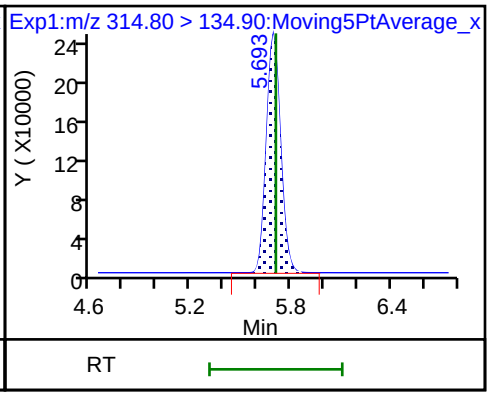
22 HFPO-DA



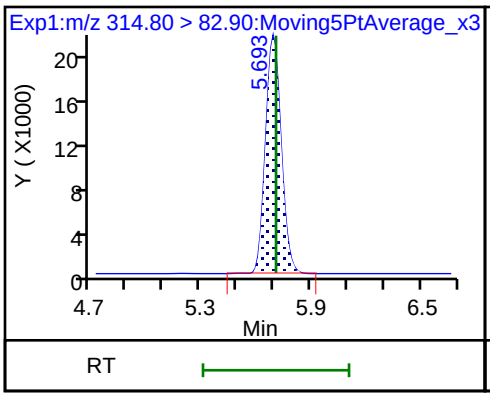
22 HFPO-DA



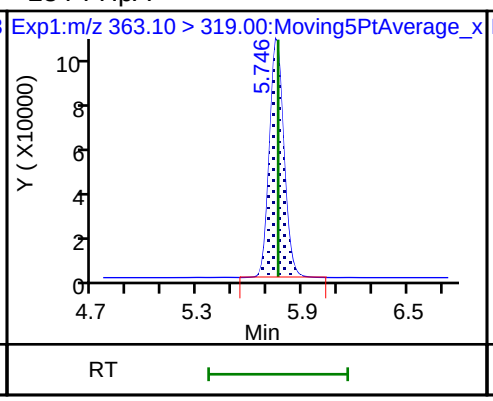
24 PFEESA



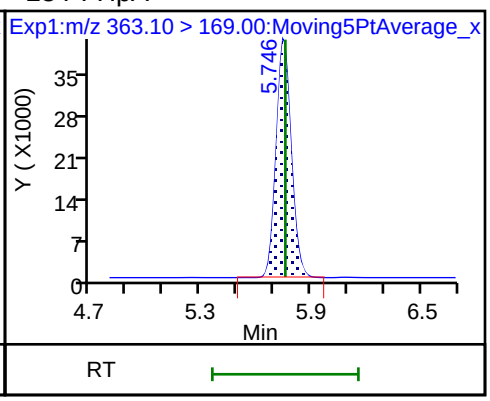
24 PFEESA



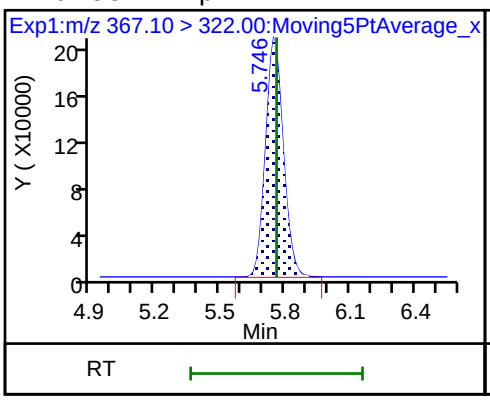
28 PFHpA



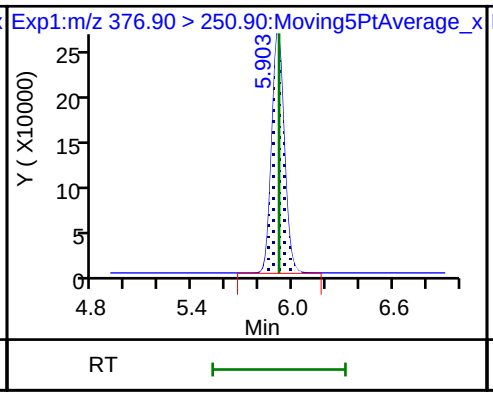
28 PFHpA



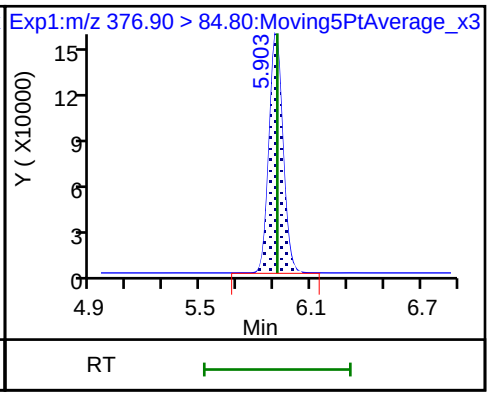
D 26 13C4 PFHpA



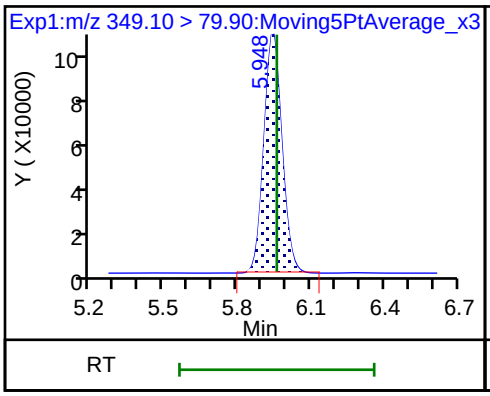
30 ADONA



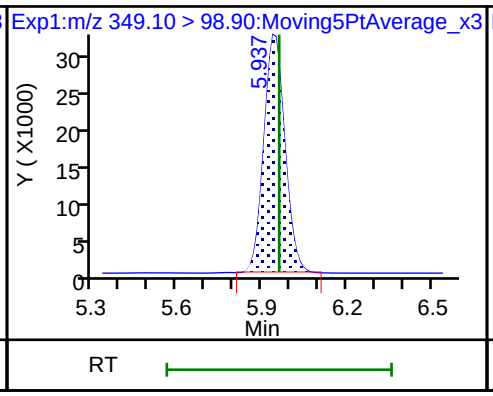
30 ADONA



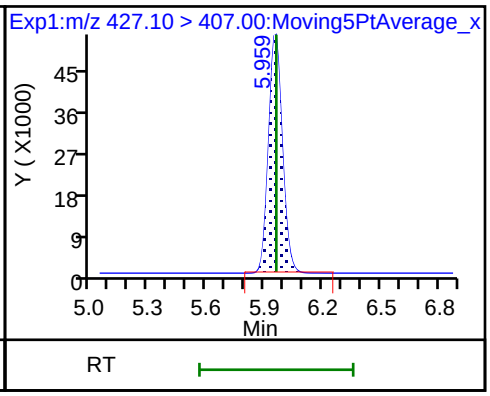
29 PFPeS



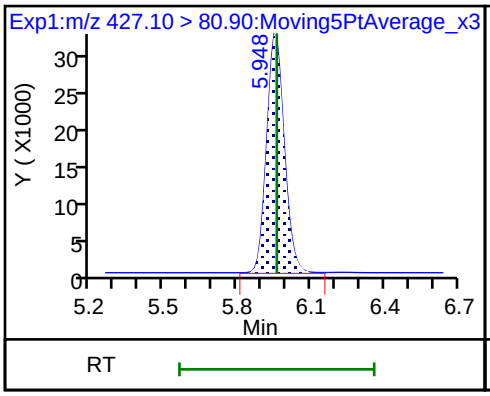
29 PFPeS



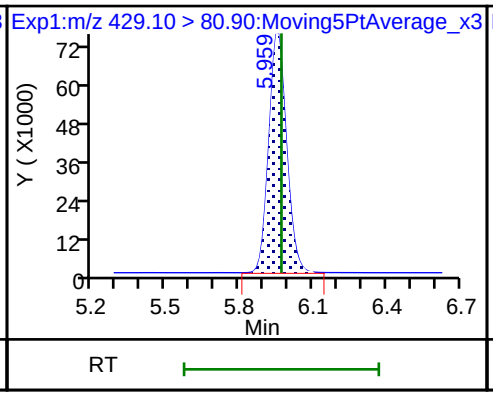
32 6:2FTS



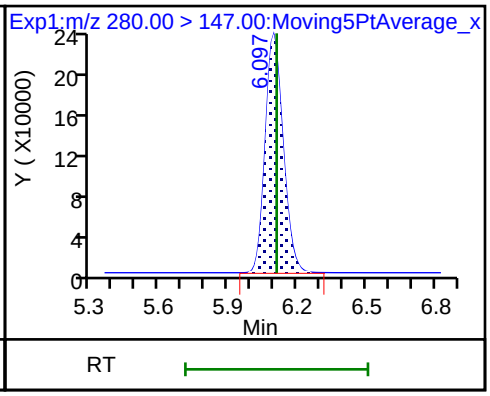
32 6:2FTS



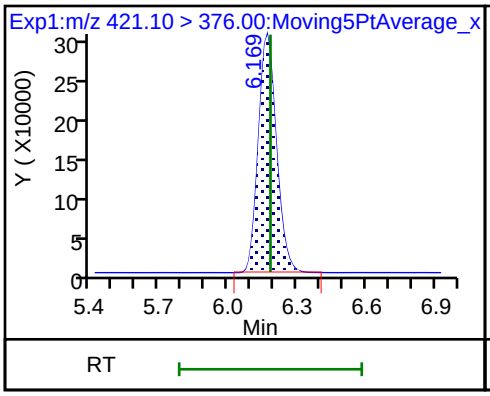
D 31 13C2-6:2FTS



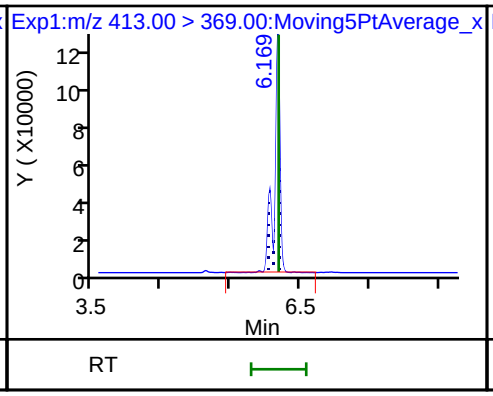
33 BTS



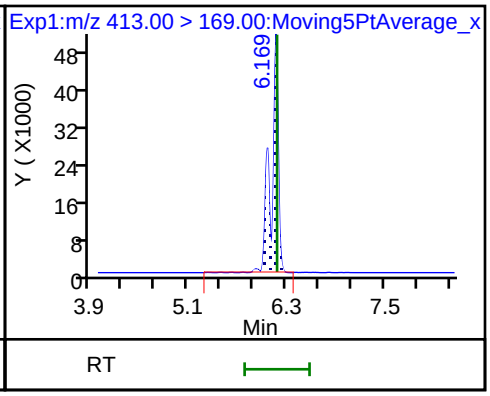
D 34 13C8 PFOA



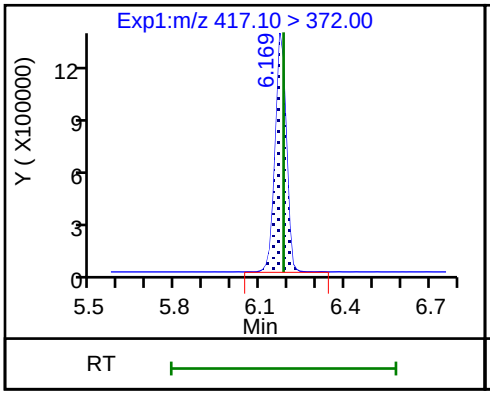
36 PFOA



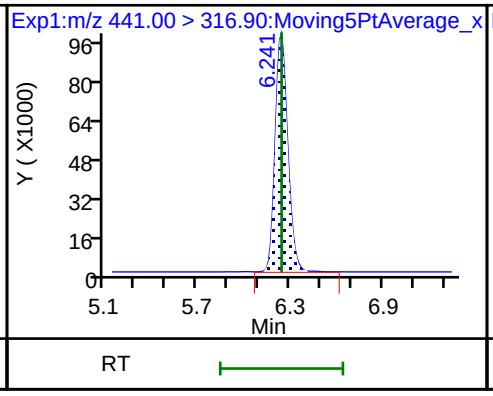
36 PFOA



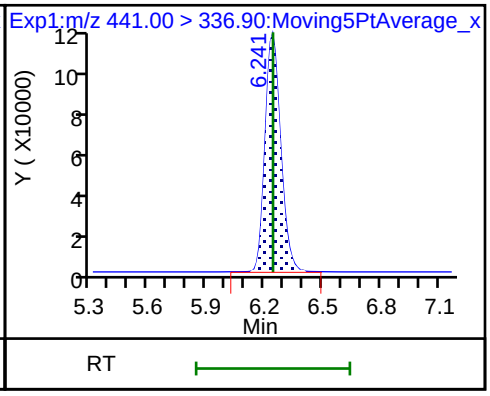
* 35 13C4 PFOA



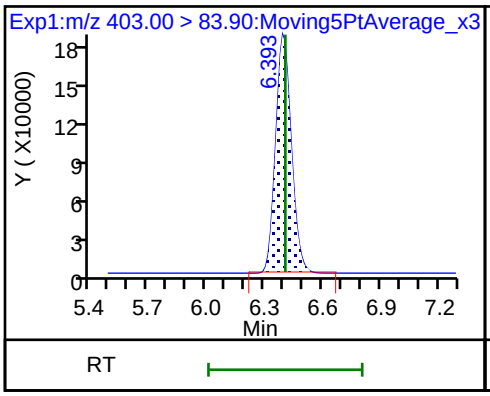
39 7:3 FTCA



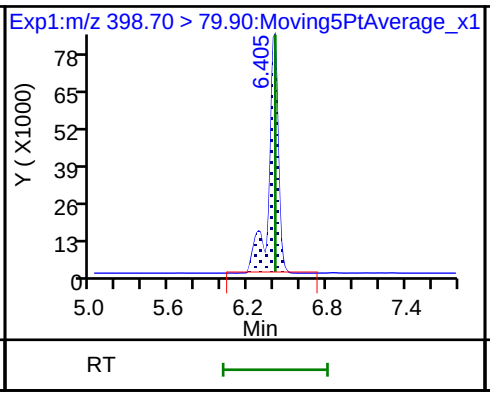
39 7:3 FTCA



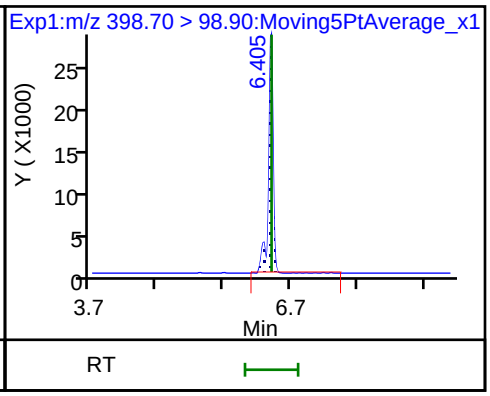
* 37 18O2 PFHxS



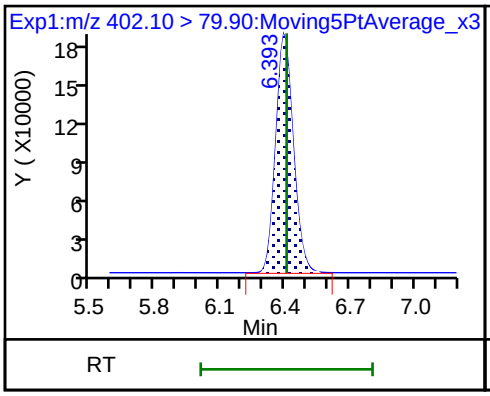
40 PFHxS



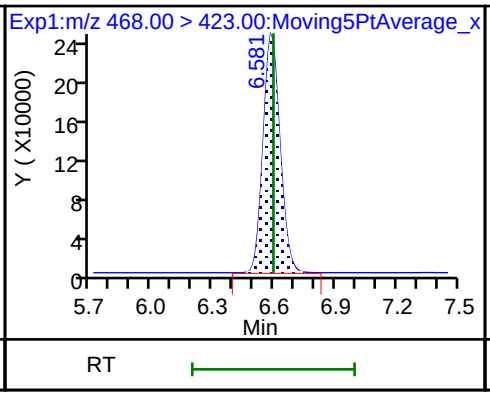
40 PFHxS



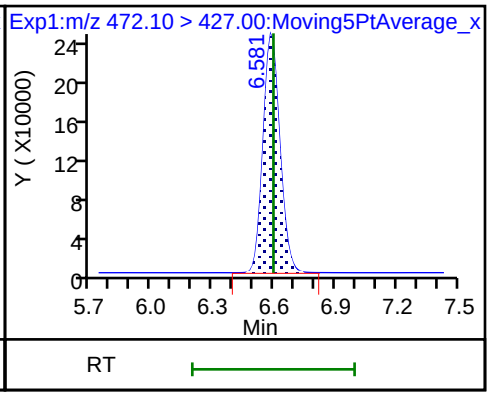
D 38 13C3 PFHxS



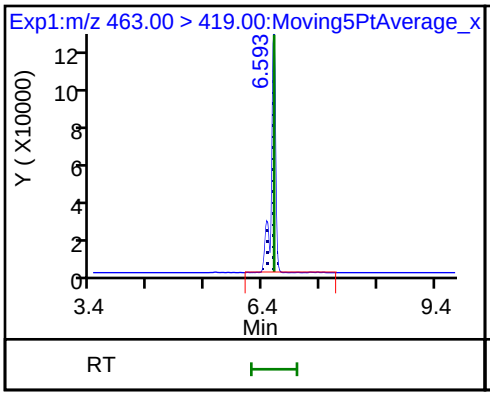
* 42 13C5 PFNA



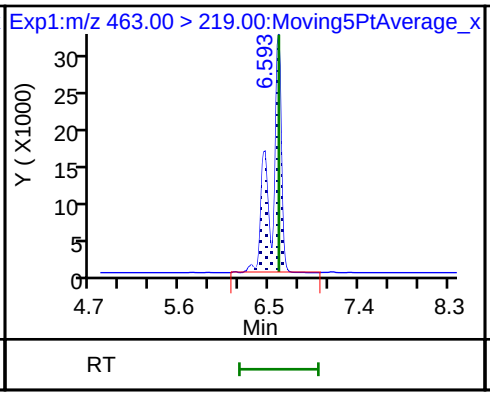
D 41 13C9 PFNA



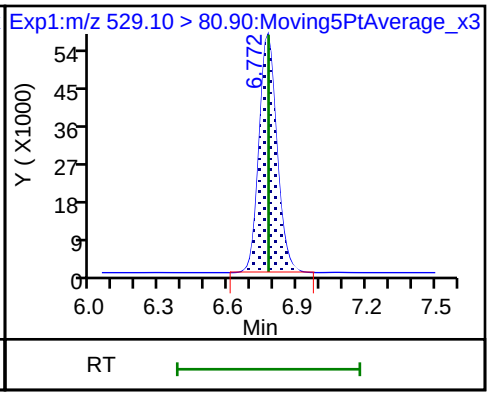
43 PFNA



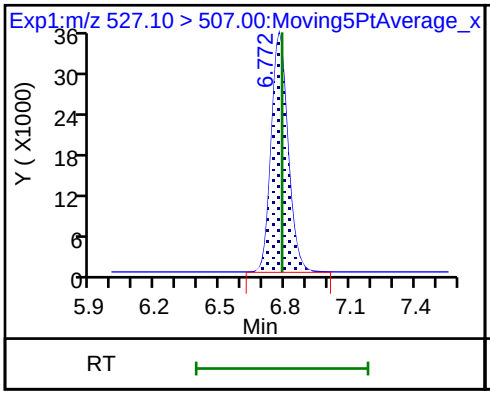
43 PFNA



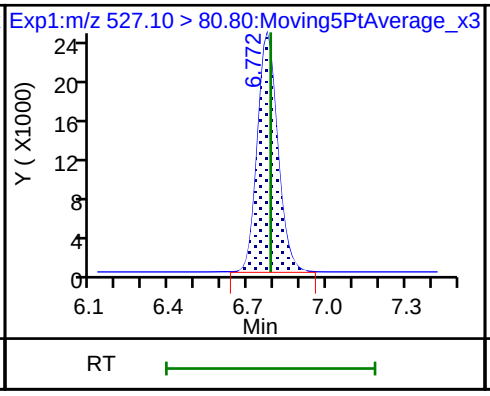
D 45 13C2-8:2FTS



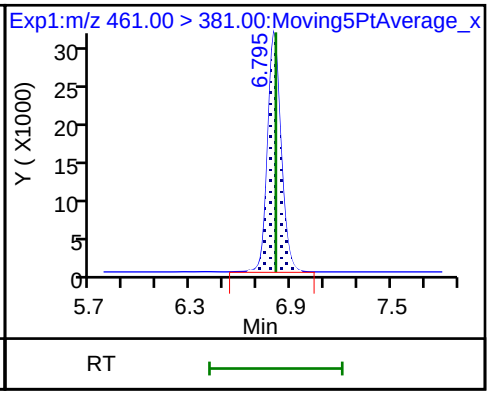
46 8:2FTS



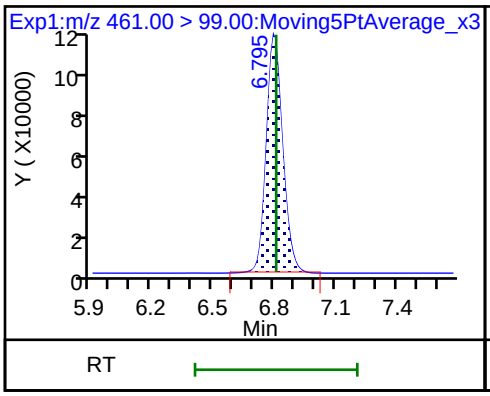
46 8:2FTS



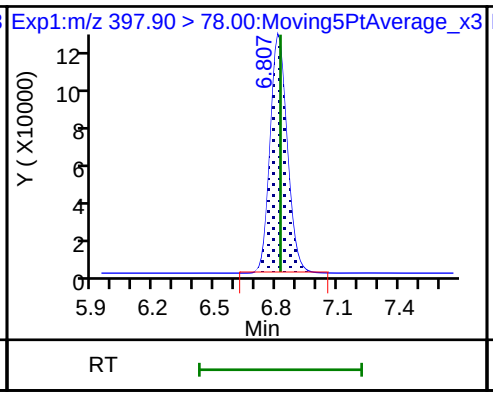
44 PFECHS



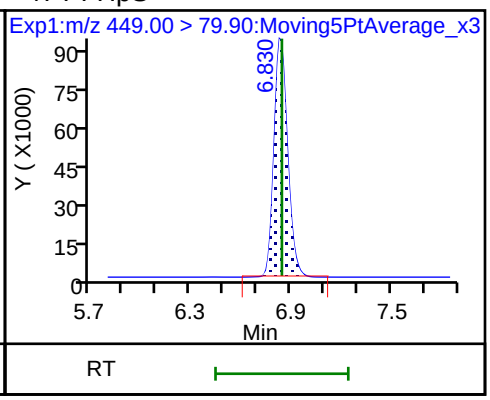
44 PFECHS



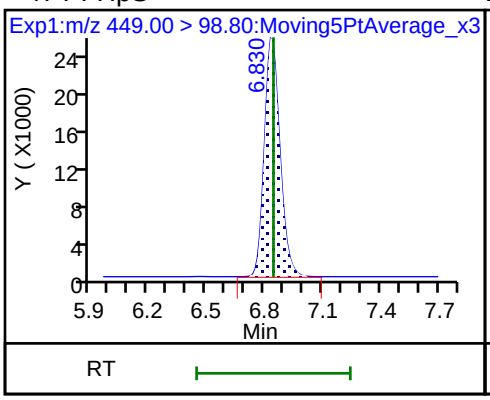
48 FHxSA



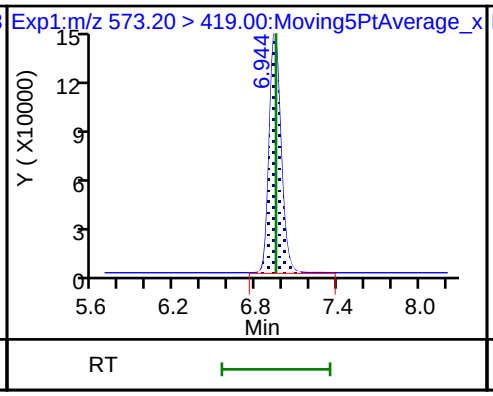
47 PFHpS



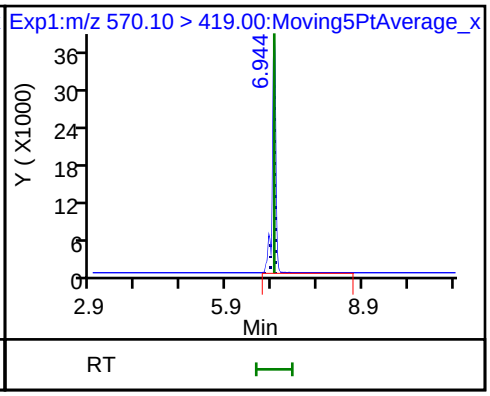
47 PFHpS



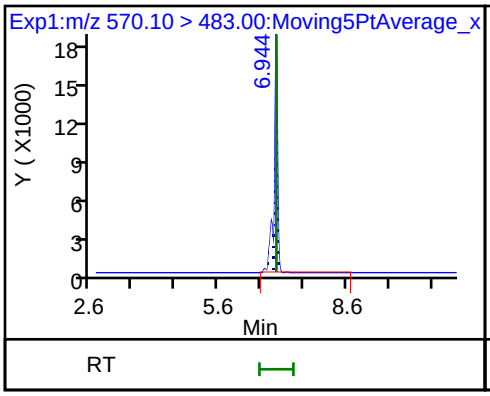
D 49 d3-NMeFOSAA



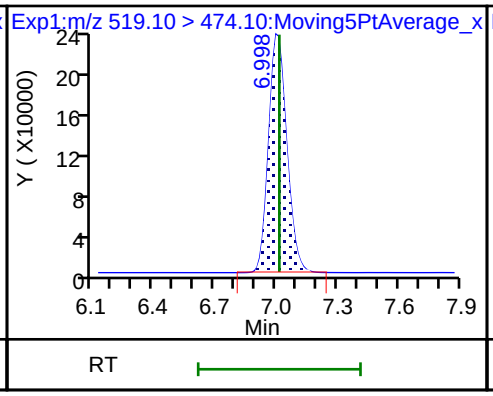
50 NMeFOSAA



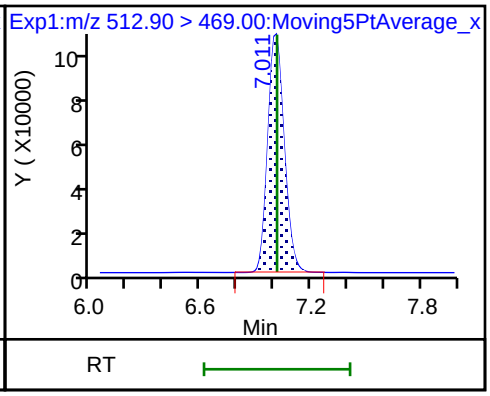
50 NMeFOSAA



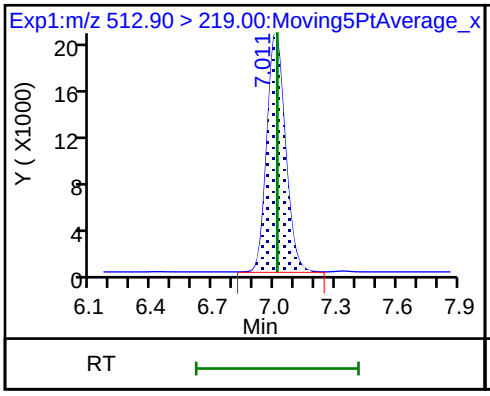
D 51 13C6 PFDA



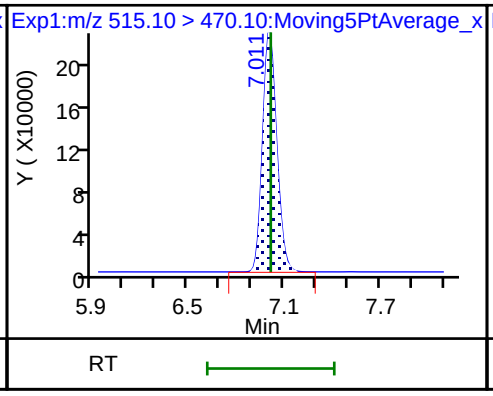
53 PFDA



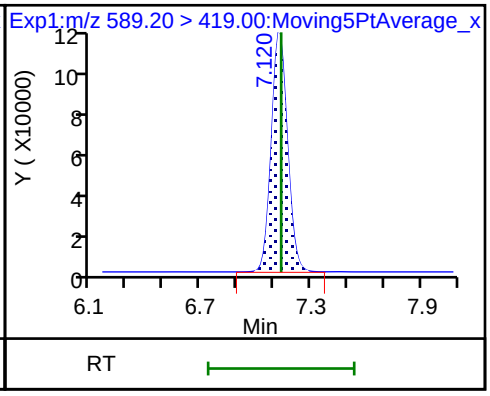
53 PFDA



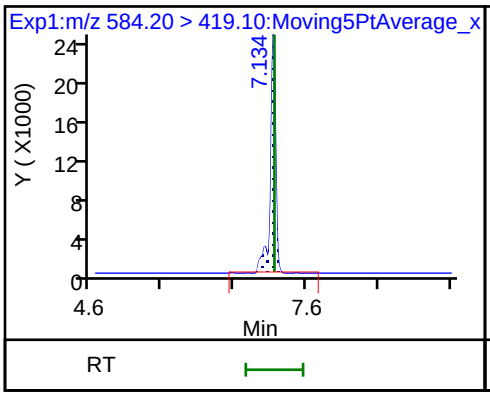
* 52 13C2 PFDA



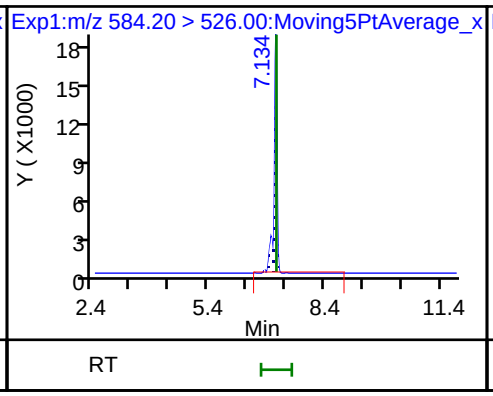
D 54 d5-NEtFOSAA



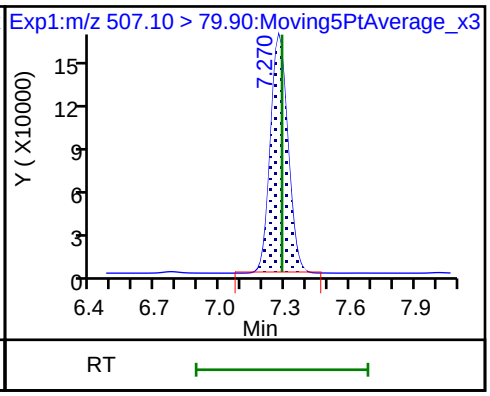
55 NEtFOSAA



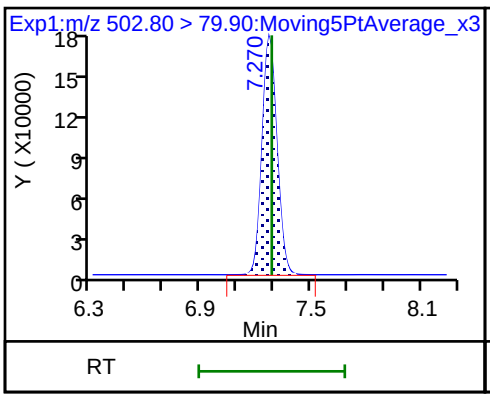
55 NEtFOSAA



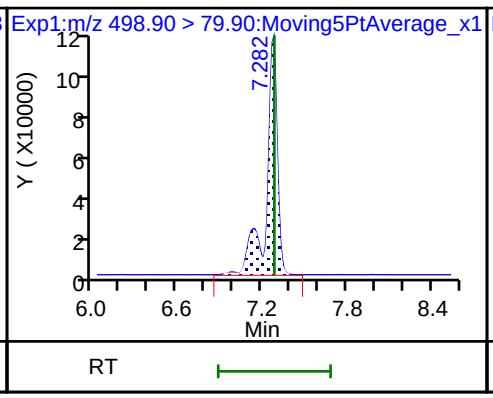
D 56 13C8 PFOS



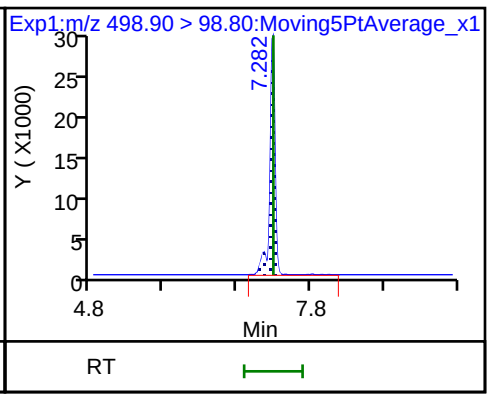
* 57 13C4 PFOS



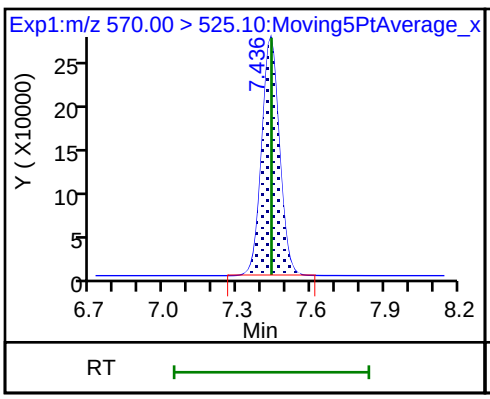
58 PFOS



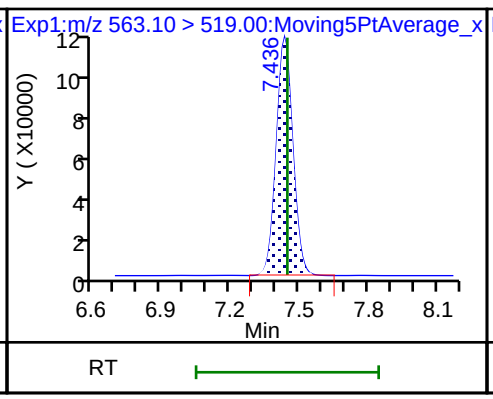
58 PFOS



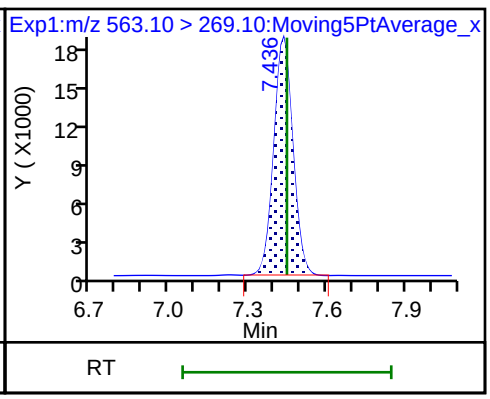
D 59 13C7 PFUnA



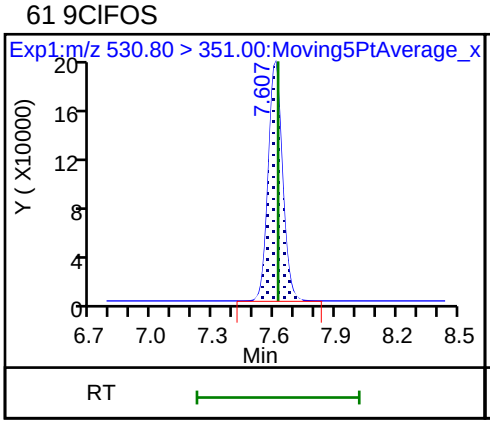
60 PFUnA



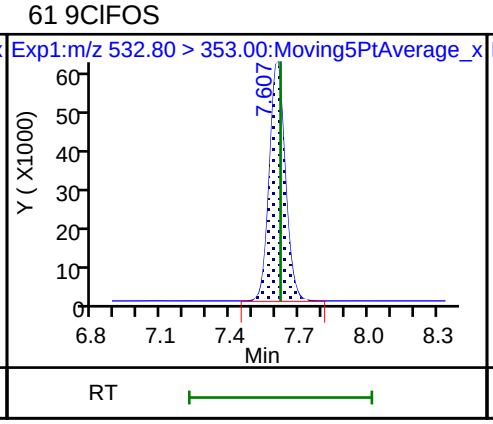
60 PFUnA



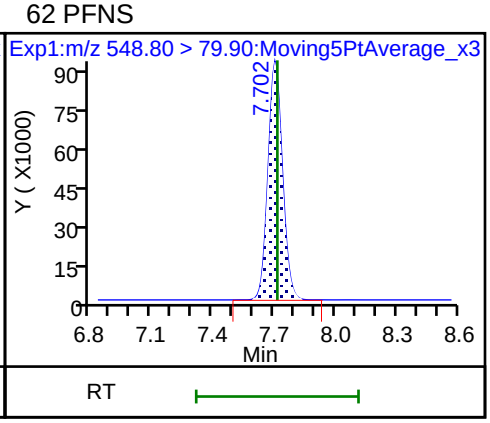
61 9ClFOS



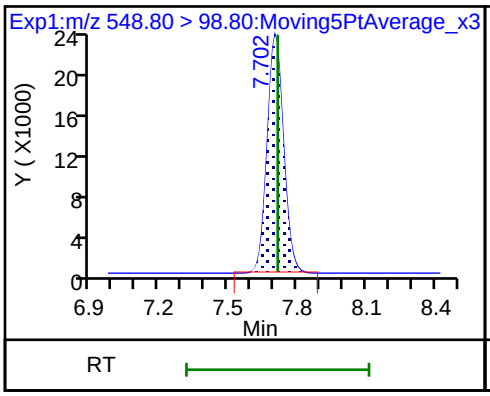
61 9ClFOS



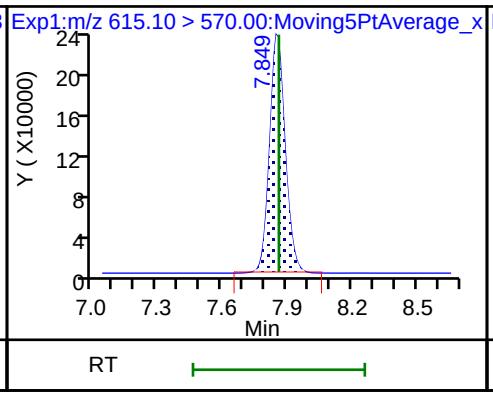
62 PFNS



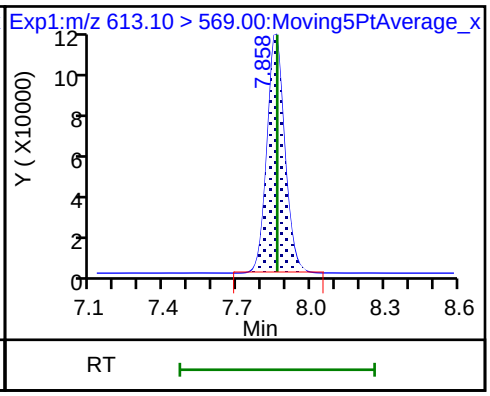
62 PFNS



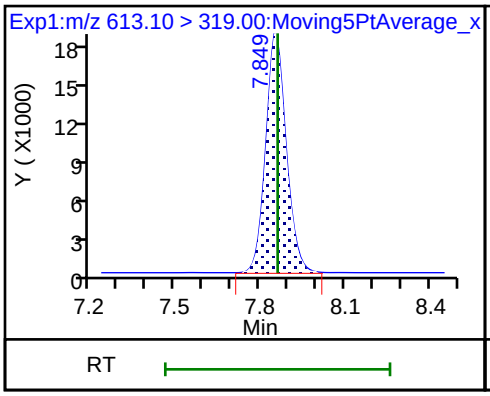
D 82 PFDoA



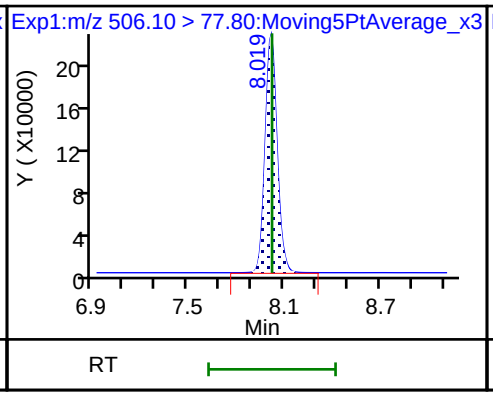
63 PFDoA



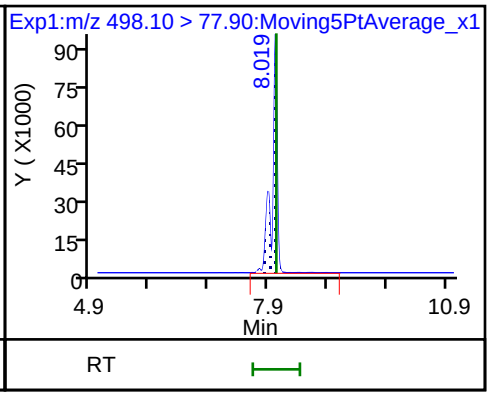
63 PFDoA



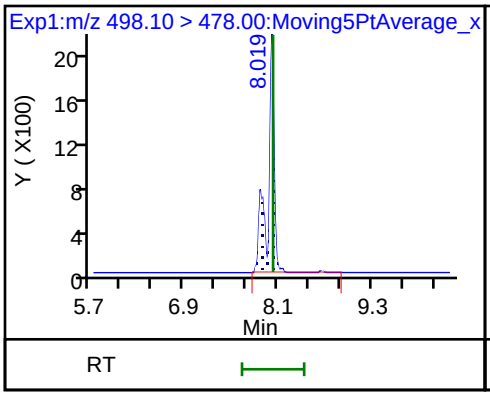
D 64 13C8 FOSA



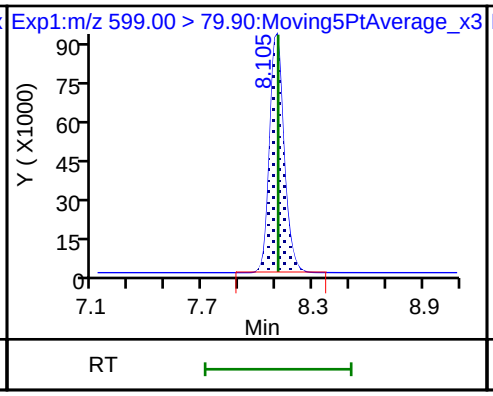
65 PFOSA



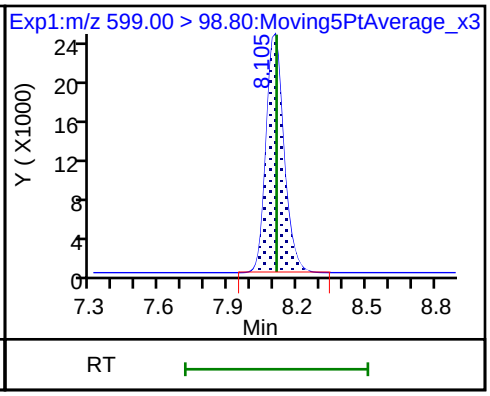
65 PFOSA



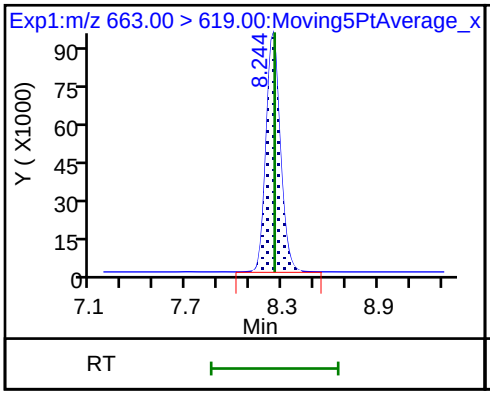
66 PFDS



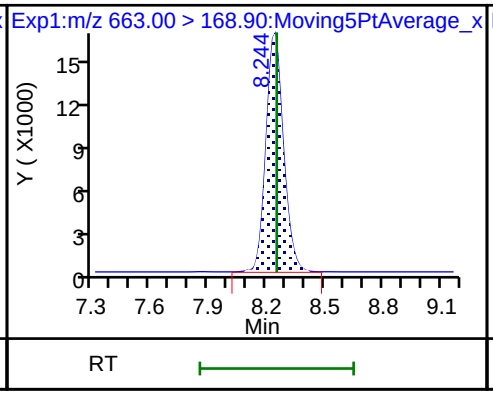
66 PFDS



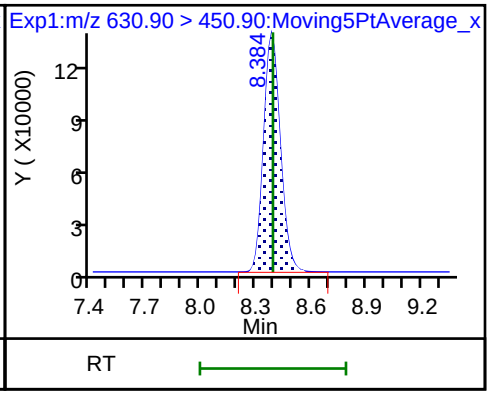
67 PFTrDA



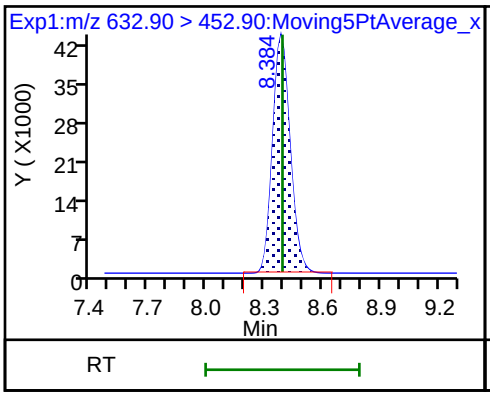
67 PFTrDA



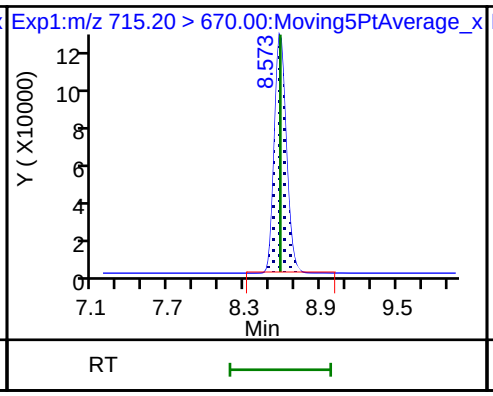
68 11ClFOS



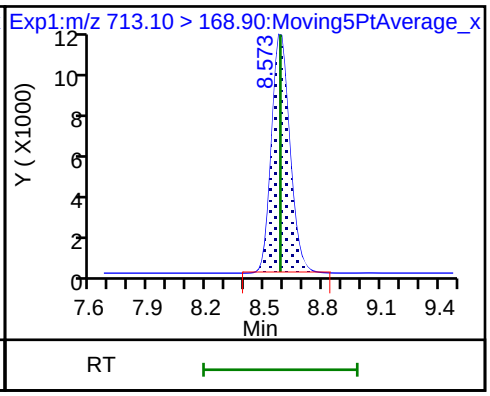
68 11ClFOS



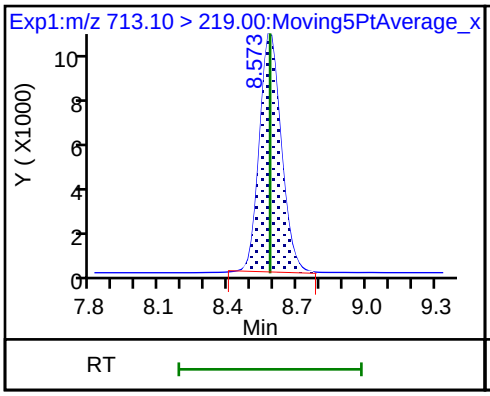
D 69 13C2 PFTeDA



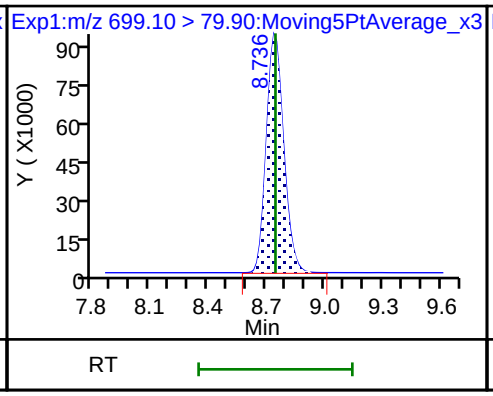
70 PFTeDA



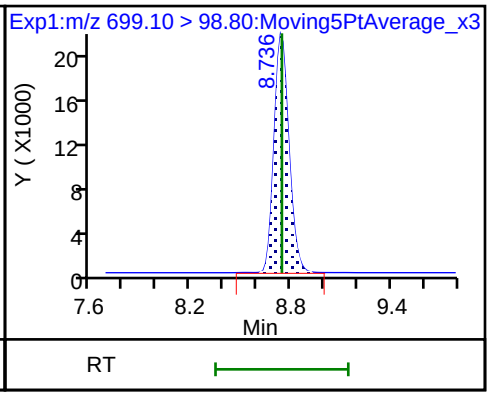
70 PFTeDA



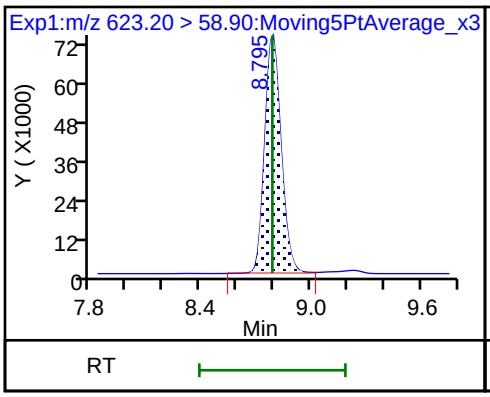
73 PFDoS



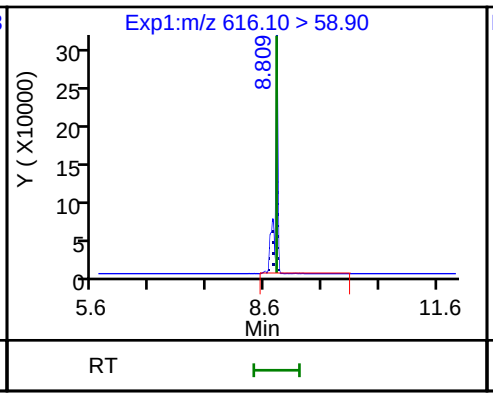
73 PFDoS



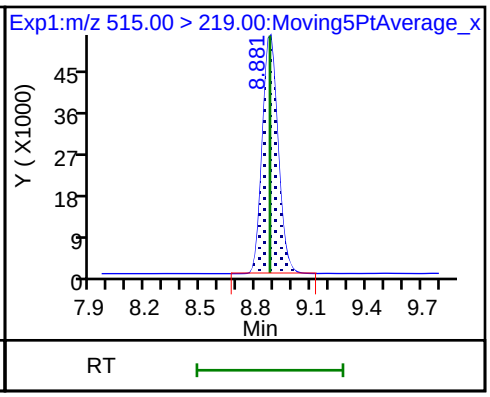
D 71 d7-N-Me-FOSE



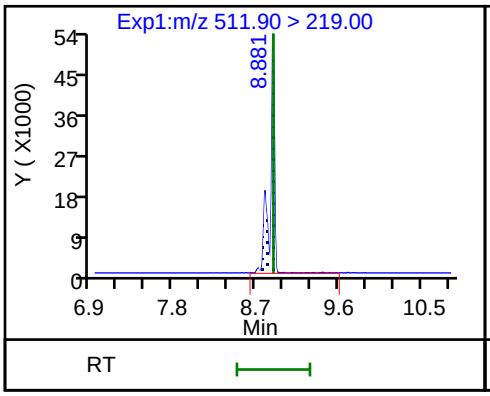
72 N-MeFOSE-M



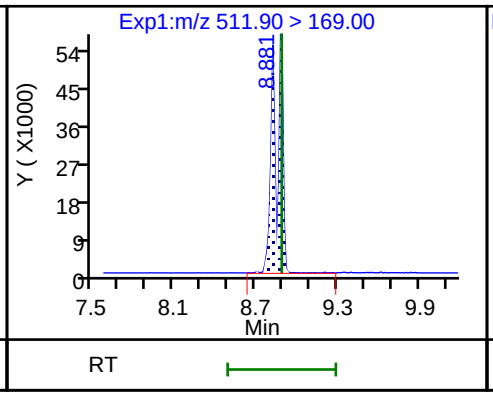
D 74 d3-NMePFOSA



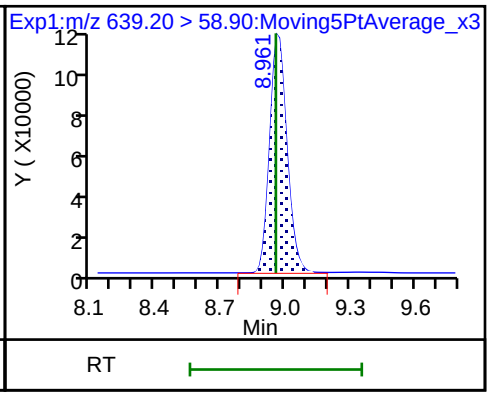
75 NMeFOSA



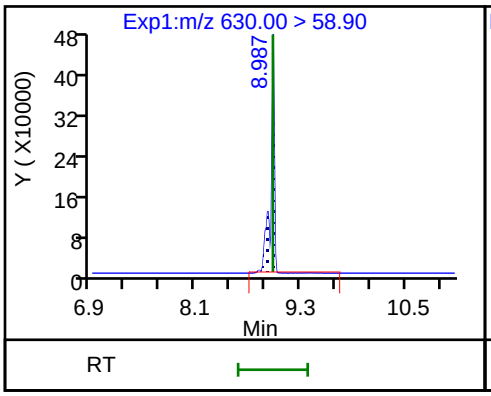
75 NMeFOSA



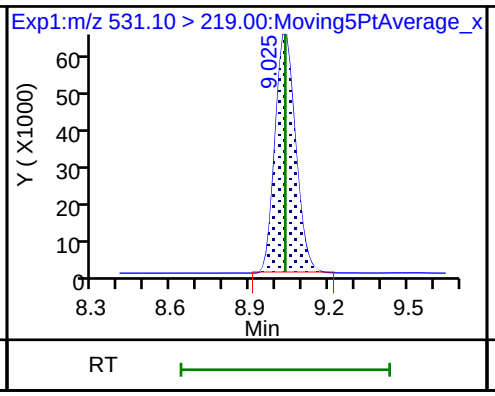
D 76 d9-N-EtFOSE



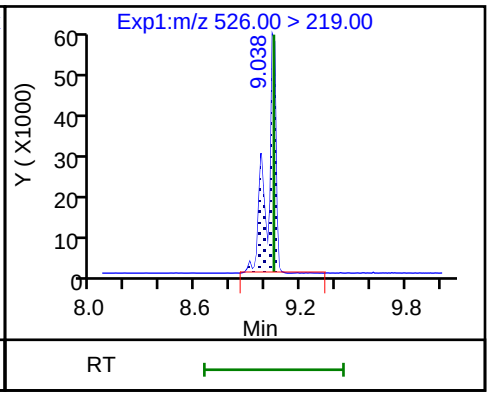
77 N-EtFOSE-M



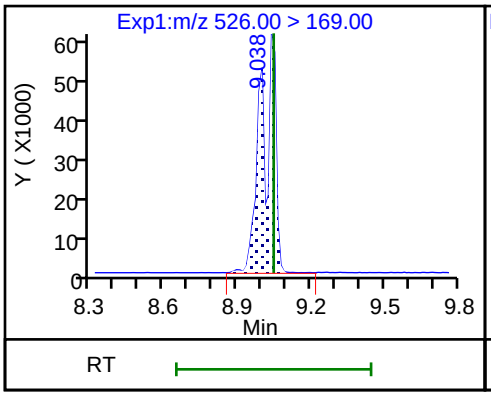
D 78 d5-NEtPFOSA



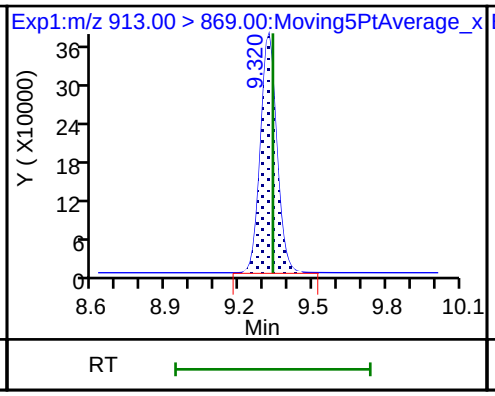
79 N-EtFOSA-M



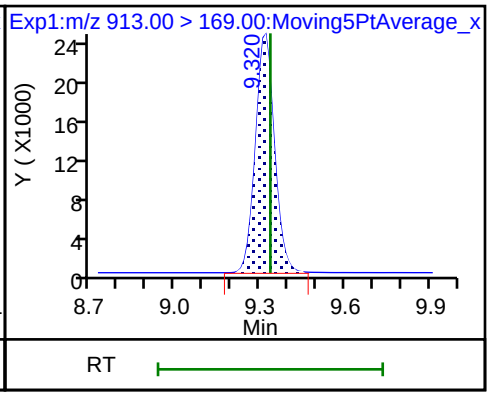
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCV 410-606840/109 Calibration Date: 02/17/2025 20:03

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-19.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9690	1.006		5.19	5.00	3.8	30.0
Perfluorobutanoic acid	AveID	0.8819	0.8986		2.04	2.00	1.9	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.732	1.798		1.04	1.00	3.8	30.0
3:3 FTCA	AveID	0.0931	0.1039		2.23	2.00	11.7	30.0
Perfluoropentanoic acid	AveID	1.502	1.594		1.06	1.00	6.2	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.586	1.575		0.993	1.00	-0.7	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.487	1.732		2.18	1.87	16.5	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.8118	0.8710		1.07	1.00	7.3	30.0
Perfluorohexanoic acid	AveID	0.9309	0.9931		1.07	1.00	6.7	30.0
5:3 FTCA	AveID	0.1694	0.1818		5.37	5.00	7.3	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.036	1.097		1.06	1.00	5.9	30.0
Perfluorobutanesulfonic acid	AveID	0.9838	1.066		0.962	0.888	8.4	30.0
HFPO-DA	AveID	0.999	1.020		0.766	0.750	2.2	30.0
PFEESA	AveID	2.736	2.730		0.890	0.892	-0.2	30.0
Perfluoroheptanoic acid	AveID	0.9533	1.060		1.11	1.00	11.2	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.907	1.951		0.968	0.946	2.3	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	1.013		0.966	0.940	2.8	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.603	1.717		2.03	1.90	7.1	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	L2ID		2.480		1.04	0.979	6.1	30.0
Perfluorooctanoic acid	L2ID		0.9626		1.20	1.00	20.0	30.0
7:3 FTCA	AveID	0.1977	0.1934		4.89	5.00	-2.2	30.0
Perfluorohexanesulfonic acid	AveID	0.8258	0.9012		0.995	0.912	9.1	30.0
Perfluorononanoic acid	AveID	0.8222	0.8565		1.04	1.00	4.2	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	1.392	1.508		2.08	1.92	8.3	30.0
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	AveID	0.3244	0.3546		1.01	0.924	9.3	30.0
Perfluoroheptanesulfonic acid	AveID	1.064	1.146		1.03	0.954	7.7	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.213	1.353		1.12	1.00	11.5	30.0
NMeFOSAA	AveID	1.004	1.229		1.22	1.00	22.4	30.0
Perfluorodecanoic acid	AveID	0.8618	0.8921		1.04	1.00	3.5	30.0
NEtFOSAA	L2ID		0.8937		1.00	1.00	0.0	30.0
Perfluorooctanesulfonic acid	AveID	1.272	1.311		0.959	0.930	3.1	30.0
Perfluoroundecanoic acid	AveID	0.8044	0.8621		1.07	1.00	7.2	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.220	1.279		0.979	0.934	4.8	30.0
Perfluorononanesulfonic acid	AveID	0.8702	0.9912		1.10	0.962	13.9	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCV 410-606840/109 Calibration Date: 02/17/2025 20:03

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-19.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorododecanoic acid	AveID	0.9366	0.9903		1.06	1.00	5.7	30.0
Perfluorodecanesulfonic acid	AveID	0.9300	0.9705		1.01	0.964	4.4	30.0
Perfluorooctanesulfonamide	AveID	0.9022	0.9158		1.02	1.00	1.5	30.0
Perfluorotridecanoic acid	AveID	1.144	1.144		1.00	1.00	0.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.151	1.200		0.984	0.944	4.3	30.0
Perfluorotetradecanoic acid	AveID	0.1752	0.1709		0.975	1.00	-2.5	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.026	1.124		1.06	0.970	9.5	30.0
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.842	1.933		5.25	5.00	5.0	30.0
NMeFOSA	AveID	1.039	1.069		1.03	1.00	2.8	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	1.825	2.043		5.60	5.00	12.0	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	1.073	1.138		1.06	1.00	6.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	2.547	2.551		1.00	1.00	0.1	30.0
13C3 PFPrA	Ave	0.6389	0.5847		1.83	2.00	-8.5	30.0
13C4 PFBA	Ave	1.068	1.085		2.03	2.00	1.5	30.0
13C5 PFPeA	Ave	0.6101	0.6196		2.03	2.00	1.6	30.0
M2-4:2 FTS	Ave	0.1577	0.1345		4.00	4.69	-14.7	30.0
13C5 PFHxA	Ave	0.8841	0.8973		2.03	2.00	1.5	30.0
13C3 PFBS	Ave	1.096	1.130		1.92	1.86	3.0	30.0
13C3 HFPO-DA	Ave	1.093	1.111		2.03	2.00	1.7	30.0
13C4 PFHpA	Ave	0.8968	0.8377		1.87	2.00	-6.6	30.0
M2-6:2 FTS	Ave	0.1652	0.1386		3.99	4.76	-16.1	30.0
13C8 PFOA	Ave	1.067	1.018		1.91	2.00	-4.6	30.0
13C3 PFHxS	Ave	1.025	0.997		1.84	1.90	-2.8	30.0
13C9 PFNA	Ave	1.024	0.9759		1.91	2.00	-4.7	30.0
M2-8:2 FTS	Ave	0.1424	0.1256		4.23	4.80	-11.9	30.0
d3-NMeFOSAA	Ave	0.3484	0.3179		4.56	5.00	-8.7	30.0
13C6 PFDA	Ave	1.054	1.050		1.99	2.00	-0.4	30.0
d5-NEtFOSAA	Ave	0.2858	0.2962		5.18	5.00	3.7	30.0
13C8 PFOS	Ave	1.024	0.9924		1.85	1.91	-3.1	30.0
13C7 PFUnA	Ave	0.9841	1.003		2.04	2.00	1.9	30.0
13C2 PFDoA	Ave	0.8279	0.8631		2.09	2.00	4.3	30.0
13C8 FOSA	Ave	1.220	1.197		1.96	2.00	-1.9	30.0
13C2 PFTeDA	Ave	0.5852	0.6307		2.16	2.00	7.8	30.0
d7-N-MeFOSE-M	Ave	0.1897	0.2078		5.48	5.00	9.5	30.0
d3-NMePFOSA	Ave	0.3203	0.3209		2.00	2.00	0.2	30.0
d9-N-EtFOSE-M	Ave	0.2468	0.2602		5.27	5.00	5.4	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Lab Sample ID: CCV 410-606840/109 Calibration Date: 02/17/2025 20:03

Instrument ID: 30576 Calib Start Date: 02/12/2025 12:45

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/12/2025 14:20

Lab File ID: 25FEB17W-19.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d5-NEtPFOSA	Ave	0.3610	0.3521		1.95	2.00	-2.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-19.d
Lims ID: CCV 3_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 17-Feb-2025 20:03:51 ALS Bottle#: 5 Worklist Smp#: 109
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 3_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0138392-109
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub1

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 20:22:46 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 20:22:33
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.078	2.102	-0.024	1.000	2069848	5.19		104	4756	
D 1 13C3PFPrA										
166.00 > 121.00	2.078	2.118	-0.040	0.495	823297	1.83		91.5	17198	
5 PFBA										
212.80 > 168.90	4.188	4.216	-0.028	0.998	1372634	2.04		102	8650	
D 3 13C4-PFBA										
216.80 > 171.90	4.197	4.224	-0.027	1.000	1527590	2.03		102	79528	
* 4 13C3PFBA										
216.00 > 172.00	4.197	4.224	-0.027		1408062	2.00			22484	
6 PFMPA										
229.00 > 84.90	4.514	4.540	-0.026	0.935	754091	1.04		104	37067	
7 3:3 FTCA										
241.00 > 177.00	4.526	4.551	-0.025	0.937	87193	2.23	Target=1.15	112	5740	
241.00 > 117.00	4.526	4.551	-0.025	0.937	74318		1.17(0.58-1.73)		4921	
D 8 13C5 PFPeA										
268.30 > 223.00	4.830	4.866	-0.036	0.914	838803	2.03		102	55580	
9 PFPA										
263.00 > 219.00	4.830	4.866	-0.036	1.000	668492	1.06		106	26537	
10 PFMBA										
279.00 > 85.10	4.984	5.020	-0.036	1.032	660690	0.99		99.3	42089	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.100	5.139	-0.039	0.806	340534	4.00		85.3	15716	
12 4:2FTS										
327.10 > 307.00	5.100	5.139	-0.039	1.000	234892	2.18	Target=1.45	116	14650	
327.10 > 80.90	5.100	5.139	-0.039	1.000	162395		1.45(0.73-2.18)		9805	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.242	5.283	-0.041	0.992	528971	1.07	Target=1.37	107	30475	
295.00 > 84.90	5.242	5.283	-0.041	0.992	364670		1.45(0.68-2.05)		21012	
D 15 13C5 PFHxA										
318.00 > 273.00	5.282	5.318	-0.036	1.000	1214678	2.03		101	70826	
* 16 13C2 PFHxA										
315.10 > 270.00	5.282	5.318	-0.036		3384192	5.00			198394	
17 PFHxA										
313.00 > 269.00	5.282	5.318	-0.036	1.000	603153	1.07	Target=10.68	107	35318	
313.00 > 118.90	5.282	5.318	-0.036	1.000	51924		11.62(5.34-16.02)		3071	
20 5:3 FTCA										
341.00 > 237.10	5.356	5.400	-0.044	1.014	552105	5.37	Target=0.98	107	31069	
341.00 > 217.00	5.356	5.400	-0.044	1.014	572831		0.96(0.49-1.47)		32291	
25 FBSA										
297.90 > 78.00	5.399	5.442	-0.043	0.997	669274	1.06		106	26117	
19 PFBS										
298.70 > 79.90	5.413	5.456	-0.043	1.000	577477	0.9624	Target=2.96	108	31070	
298.70 > 98.80	5.413	5.456	-0.043	1.000	203783		2.83(1.48-4.44)		10917	
D 18 13C3 PFBS										
302.10 > 79.90	5.413	5.456	-0.043	0.855	1136853	1.92		103	60838	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.456	5.514	-0.058	1.033	1503821	2.03		102	80319	
22 HFPO-DA										
284.90 > 168.90	5.470	5.514	-0.044	1.003	575410	0.7664	Target=2.37	102	15306	
284.90 > 184.90	5.470	5.514	-0.044	1.003	246450		2.33(1.19-3.56)		9863	
24 PFEESA										
314.80 > 134.90	5.638	5.709	-0.071	1.067	1479238	0.8904	Target=11.81	99.8	79763	
314.80 > 82.90	5.638	5.709	-0.071	1.067	126271		11.71(5.90-17.71)		6822	
28 PFHpA										
363.10 > 319.00	5.708	5.760	-0.052	1.000	601130	1.11	Target=2.56	111	25373	
363.10 > 169.00	5.708	5.760	-0.052	1.000	236950		2.54(1.28-3.85)		13350	
D 26 13C4 PFHpA										
367.10 > 322.00	5.708	5.760	-0.052	1.081	1133979	1.87		93.4	63423	
30 ADONA										
376.90 > 250.90	5.858	5.916	-0.058	1.074	1387782	0.9679	Target=1.81	102	32365	
376.90 > 84.80	5.858	5.916	-0.058	1.074	856971		1.62(0.90-2.71)		53728	
29 PFPeS										
349.10 > 79.90	5.892	5.960	-0.068	0.931	512620	0.9660	Target=3.25	103	23959	
349.10 > 98.90	5.892	5.960	-0.068	0.931	160181		3.20(1.63-4.88)		9981	
32 6:2FTS										
427.10 > 407.00	5.903	5.960	-0.057	1.000	243485	2.03	Target=1.57	107	15676	
427.10 > 80.90	5.903	5.960	-0.057	1.000	144285		1.69(0.78-2.35)		9305	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.903	5.971	-0.068	0.933	356093	3.99		83.9	22862	
33 BTS										
280.00 > 147.00	6.034	6.110	-0.076	0.953	1307037	1.04		106	83156	
D 34 13C8 PFOA										
421.10 > 376.00	6.109	6.183	-0.074	0.998	1556365	1.91		95.4	95615	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.121	6.183	-0.062	1.002	749056	1.20	Target=2.35	120	23520	
413.00 > 169.00	6.121	6.183	-0.062	1.002	295628		2.53(1.18-3.53)		48016	
* 35 13C4 PFOA										
417.10 > 372.00	6.121	6.183	-0.062		3823026	5.00			683281	
39 7:3 FTCA										
441.00 > 316.90	6.193	6.243	-0.050	1.172	587265	4.89	Target=0.90	97.8	35352	
441.00 > 336.90	6.193	6.243	-0.050	1.172	640029		0.92(0.45-1.35)		38542	
D 38 13C3 PFHxS										
402.10 > 79.90	6.330	6.407	-0.077	1.000	1020647	1.84		97.2	59184	
* 37 18O2 PFHxS										
403.00 > 83.90	6.330	6.407	-0.077		1021397	1.89			58958	
40 PFHxS										
398.70 > 79.90	6.342	6.407	-0.065	1.002	442459	1.00	Target=3.23	109	85048	
398.70 > 98.90	6.342	6.407	-0.065	1.002	137540		3.22(1.62-4.85)		27476	
D 41 13C9 PFNA										
472.10 > 427.00	6.517	6.595	-0.078	1.000	1411024	1.91		95.3	60969	
43 PFNA										
463.00 > 419.00	6.530	6.595	-0.065	1.002	604254	1.04	Target=2.70	104	39091	
463.00 > 219.00	6.530	6.595	-0.065	1.002	226087		2.67(1.35-4.05)		34467	
* 42 13C5 PFNA										
468.00 > 423.00	6.517	6.595	-0.078		1445879	2.00			83060	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.704	6.774	-0.070	1.059	325353	4.23		88.1	19898	
46 8:2FTS										
527.10 > 507.00	6.704	6.786	-0.082	1.000	195888	2.08	Target=1.51	108	12092	
527.10 > 80.80	6.704	6.786	-0.082	1.000	113347		1.73(0.75-2.26)		6993	
44 PFECHS										
461.00 > 381.00	6.727	6.809	-0.082	1.063	176389	1.01	Target=0.29	109	10355	
461.00 > 99.00	6.727	6.809	-0.082	1.063	617175		0.29(0.15-0.44)		37010	
48 FHxSA										
397.90 > 78.00	6.784	6.820	-0.036	1.072	728087	1.12		112	41256	
47 PFHpS										
449.00 > 79.90	6.761	6.845	-0.084	0.941	537565	1.03	Target=3.66	108	33080	
449.00 > 98.80	6.761	6.845	-0.084	0.941	153803		3.50(1.83-5.49)		9373	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.867	6.947	-0.080	0.956	787534	4.56		91.3	44951	
50 NMeFOSAA										
570.10 > 419.00	6.880	6.947	-0.067	1.002	193553	1.22	Target=1.83	122	40747	
570.10 > 483.00	6.880	6.947	-0.067	1.002	89509		2.16(0.91-2.74)		16984	
D 51 13C6 PFDA										
519.10 > 474.10	6.931	7.014	-0.083	1.000	1485485	1.99		99.6	61876	
53 PFDA										
512.90 > 469.00	6.931	7.014	-0.083	1.000	662619	1.04	Target=5.26	104	27588	
512.90 > 219.00	6.931	7.014	-0.083	1.000	138852		4.77(2.63-7.89)		7766	
* 52 13C2 PFDA										
515.10 > 470.10	6.931	7.014	-0.083		1414187	2.00			59077	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.053	7.137	-0.084	0.982	733797	5.18		104	39138	
55 NEtFOSAA										
584.20 > 419.10	7.067	7.150	-0.083	1.002	131166	1.00	Target=1.37	100	25683	
584.20 > 526.00	7.067	7.150	-0.083	1.002	95980		1.37(0.69-2.06)		18497	
D 56 13C8 PFOS										
507.10 > 79.90	7.186	7.285	-0.099	1.000	939999	1.85		96.9	23328	
* 57 13C4 PFOS										
502.80 > 79.90	7.186	7.285	-0.099		947214	1.91			54314	
58 PFOS										
498.90 > 79.90	7.198	7.285	-0.087	1.002	599532	0.9587	Target=4.45	103	112050	
498.90 > 98.80	7.198	7.285	-0.087	1.002	136018		4.41(2.23-6.68)		28836	
D 59 13C7 PFUnA										
570.00 > 525.10	7.353	7.438	-0.085	1.061	1418168	2.04		102	66087	
60 PFUnA										
563.10 > 519.00	7.353	7.448	-0.095	1.000	611308	1.07	Target=6.24	107	38201	
563.10 > 269.10	7.353	7.448	-0.095	1.000	95675		6.39(3.12-9.36)		5902	
61 9ClFOS										
530.80 > 351.00	7.514	7.618	-0.104	1.377	898192	0.9788	Target=3.02	105	61689	
532.80 > 353.00	7.514	7.618	-0.104	1.377	277446		3.24(1.51-4.54)		19082	
62 PFNS										
548.80 > 79.90	7.607	7.714	-0.107	1.059	468783	1.10	Target=3.66	114	32369	
548.80 > 98.80	7.607	7.714	-0.107	1.059	124340		3.77(1.83-5.49)		8678	
D 82 PFDoA										
615.10 > 570.00	7.762	7.862	-0.100	1.120	1220616	2.09		104	80508	
63 PFDoA										
613.10 > 569.00	7.762	7.862	-0.100	1.000	604367	1.06	Target=6.35	106	40585	
613.10 > 319.00	7.762	7.862	-0.100	1.000	95435		6.33(3.17-9.52)		6267	
D 64 13C8 FOSA										
506.10 > 77.80	7.997	8.022	-0.025	1.113	1186287	1.96		98.1	74943	
65 PFOSA										
498.10 > 77.90	7.997	8.033	-0.036	1.000	543199	1.02	Target=40.87	102	93897	
498.10 > 478.00	7.997	8.033	-0.036	1.000	12285		44.22(20.44-61.31)		2045	
66 PFDS										
599.00 > 79.90	7.997	8.110	-0.113	1.113	459956	1.01	Target=3.79	104	29507	
599.00 > 98.80	7.997	8.110	-0.113	1.113	129266		3.56(1.90-5.69)		8283	
67 PFTrDA										
663.00 > 619.00	8.139	8.252	-0.113	0.961	604398	1.00	Target=5.85	100	35266	
663.00 > 168.90	8.139	8.252	-0.113	0.961	107411		5.63(2.93-8.78)		6237	
68 11ClFOS										
630.90 > 450.90	8.285	8.392	-0.107	1.519	851565	0.9844	Target=3.00	104	45428	
632.90 > 452.90	8.285	8.392	-0.107	1.519	283062		3.01(1.50-4.50)		15179	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.472	8.581	-0.109	1.222	891885	2.16		108	34686	
70 PFTeDA										
713.10 > 168.90	8.472	8.581	-0.109	1.000	76194	0.9751	Target=1.17	97.5	3893	
713.10 > 219.00	8.486	8.581	-0.095	1.002	66882		1.14(0.58-1.75)		3449	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.650	8.745	-0.095	1.204	535800	1.06	Target=4.47	110	27876	
699.10 > 98.80	8.650	8.745	-0.095	1.204	126298		4.24(2.23-6.70)		6566	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.782	8.789	-0.007	1.222	514723	5.48		110	10372	
72 N-MeFOSE-M										
616.10 > 58.90	8.796	8.803	-0.007	1.002	994957	5.25		105	6419	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.868	8.876	-0.008	1.234	317933	2.00		100	13364	
75 NMeFOSA										
511.90 > 219.00	8.882	8.889	-0.007	1.002	169860	1.03	Target=0.74	103	840	
511.90 > 169.00	8.868	8.889	-0.021	1.000	239818		0.71(0.37-1.12)		1127	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.950	8.957	-0.007	1.245	644482	5.27		105	16403	
77 N-EtFOSE-M										
630.00 > 58.90	8.975	8.983	-0.008	1.003	1316851	5.60		112	7306	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.027	9.034	-0.007	1.256	348893	1.95		97.5	15967	
79 N-EtFOSA-M										
526.00 > 219.00	9.040	9.047	-0.007	1.001	198460	1.06	Target=0.80	106	1529	
526.00 > 169.00	9.040	9.047	-0.007	1.001	249218		0.80(0.40-1.20)		1415	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.174	9.336	-0.162	1.083	1137419	1.00	Target=14.94	100	45575	
913.00 > 169.00	9.174	9.336	-0.162	1.083	77013		14.77(7.47-22.41)		5164	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00027 Amount Added: 1.00 Units: mL

Report Date: 17-Feb-2025 20:22:47 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-19.d

Injection Date: 17-Feb-2025 20:03:51 Instrument ID: 30576

Lims ID: CCV 3_CAL4

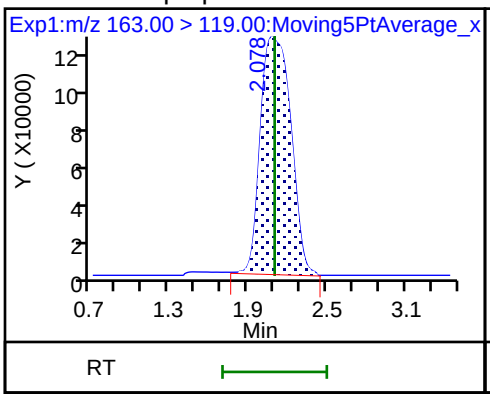
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 5 Worklist Smp#: 109

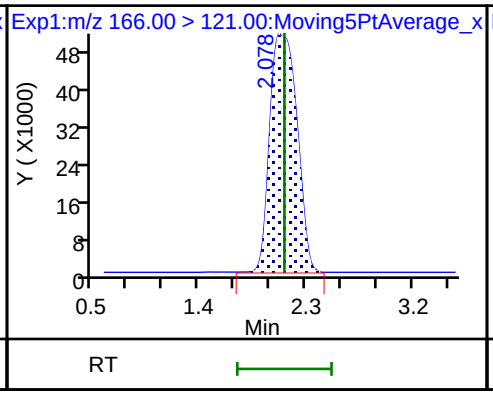
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

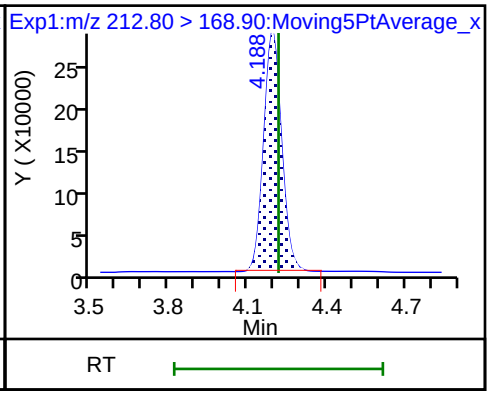
2 Perfluoropropionic acid



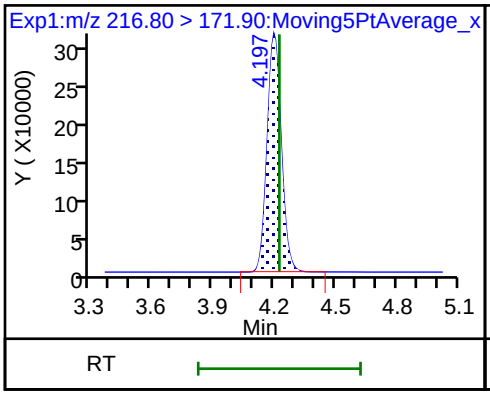
D 1 13C3PFPrA



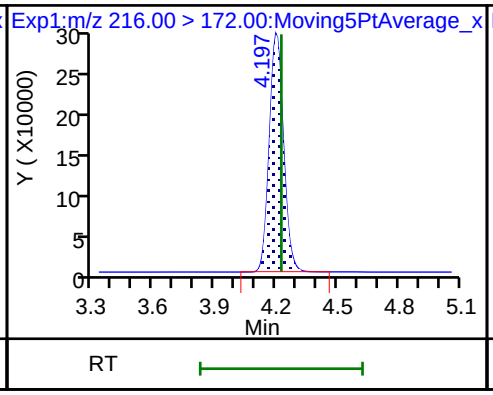
5 PFBA



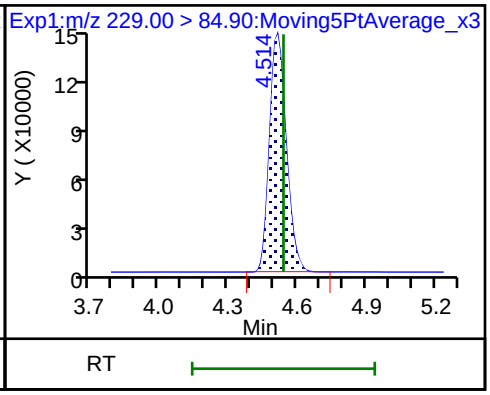
D 3 13C4-PFBA



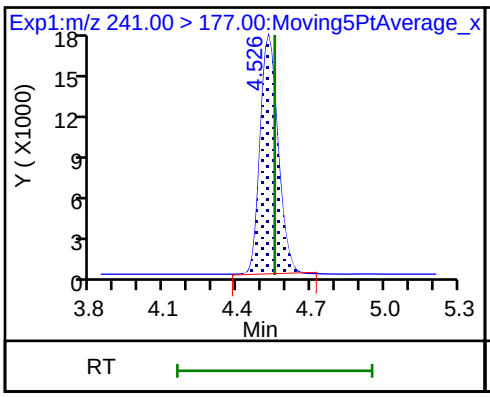
* 4 13C3PFBA



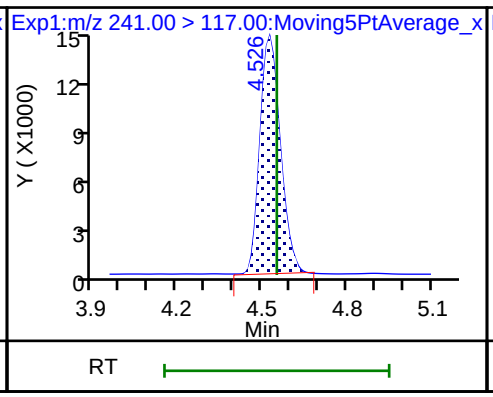
6 PFMPA



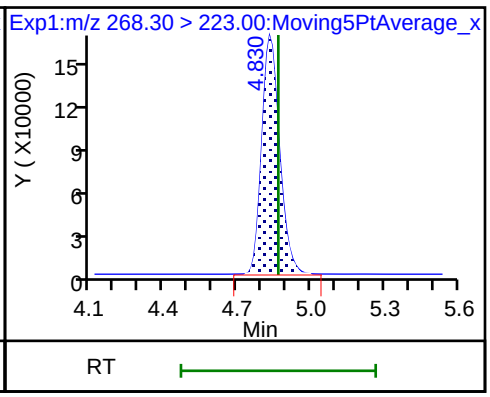
7 3:3 FTCA



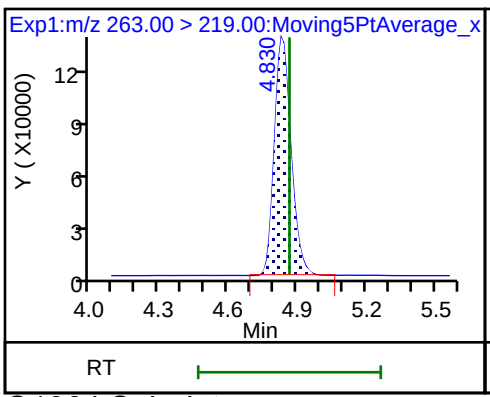
7 3:3 FTCA



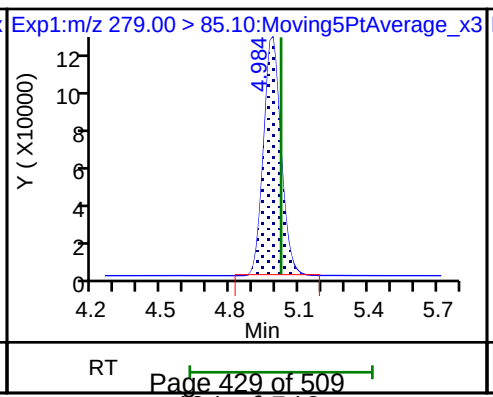
D 8 13C5 PFPeA



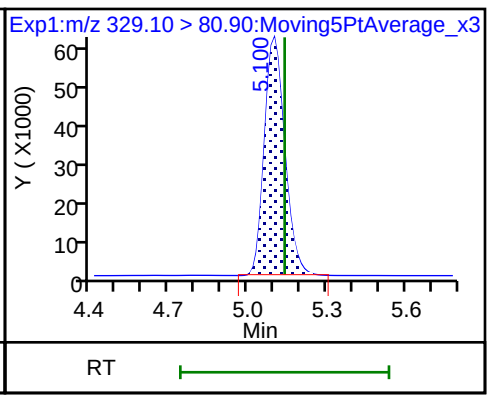
9 PFPA



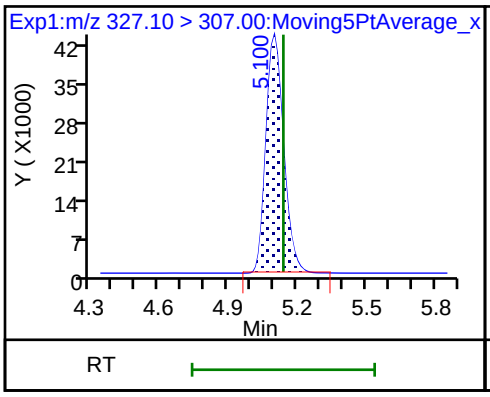
10 PFMBA



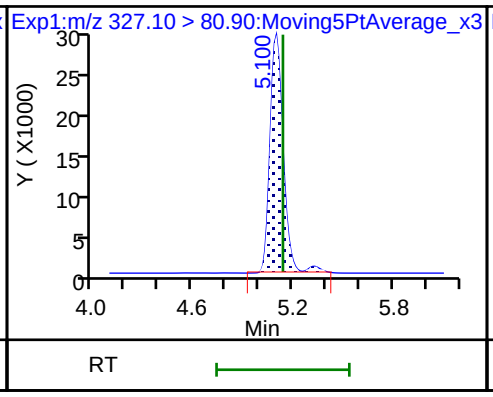
D 11 13C2-4:2FTS



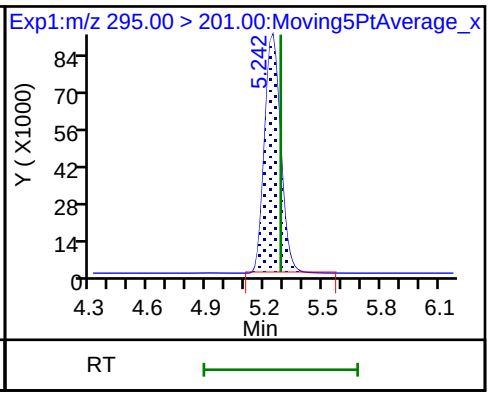
12 4:2FTS



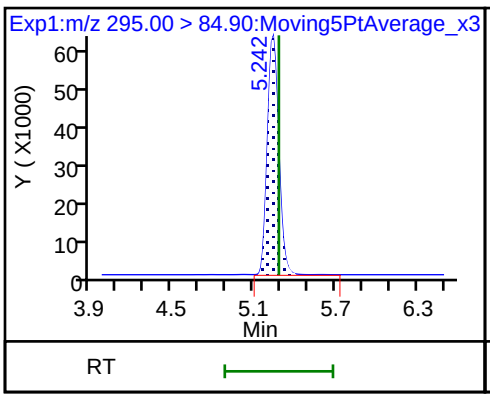
12 4:2FTS



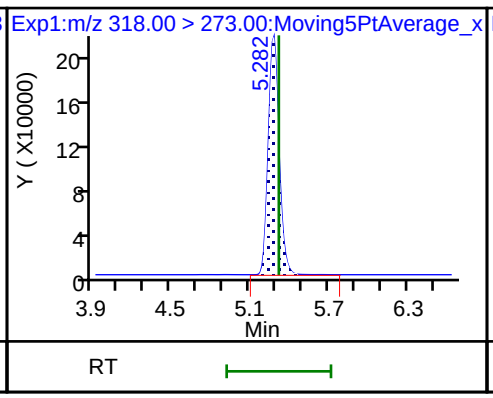
14 NFDHA



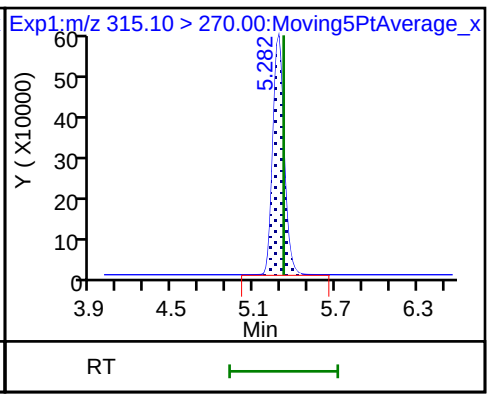
14 NFDHA



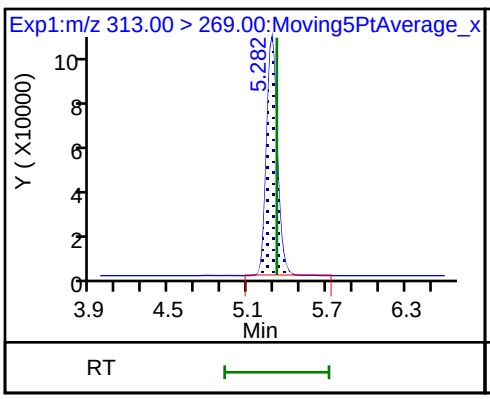
D 15 13C5 PFHxA



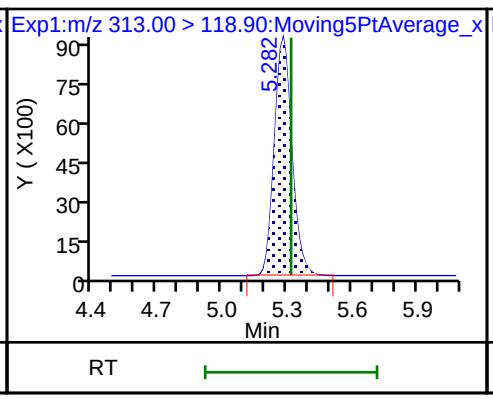
* 16 13C2 PFHxA



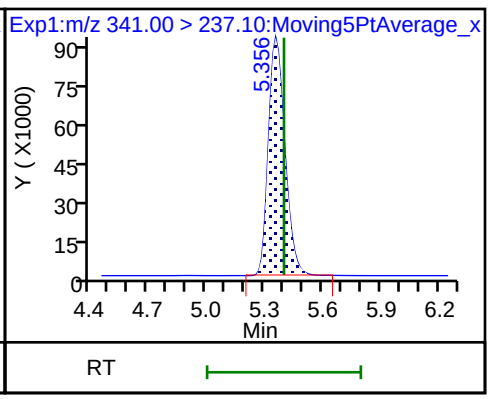
17 PFHxA



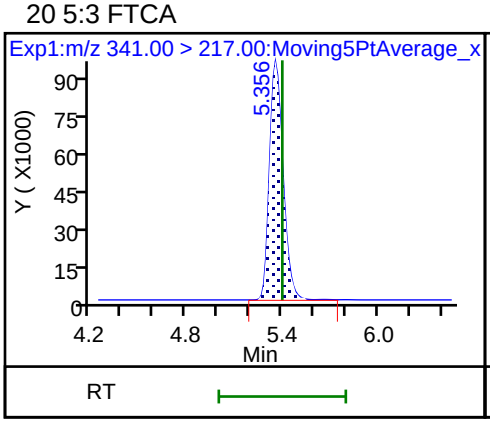
17 PFHxA



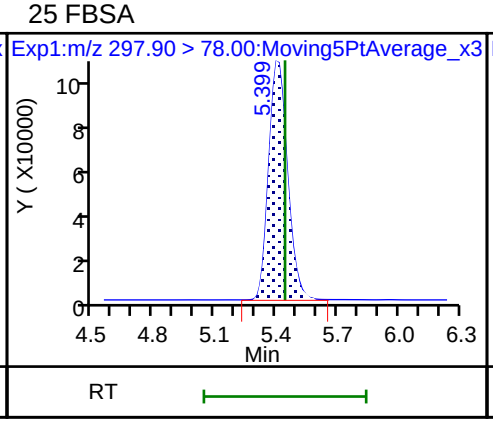
20 5:3 FTCA



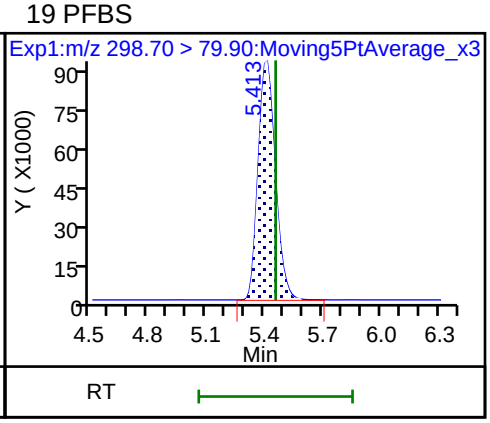
20 5:3 FTCA



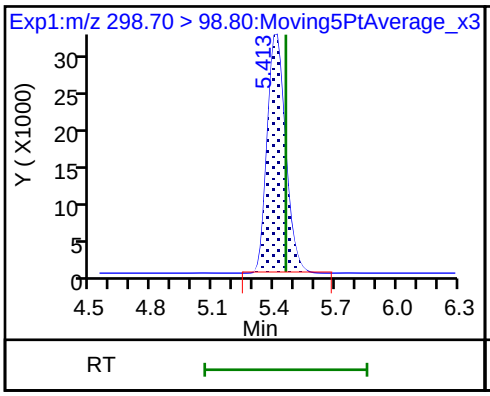
25 FBSA



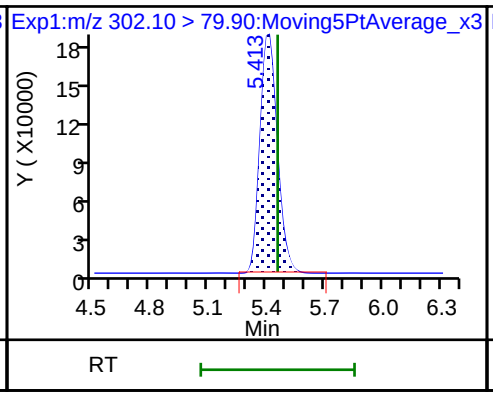
19 PFBS



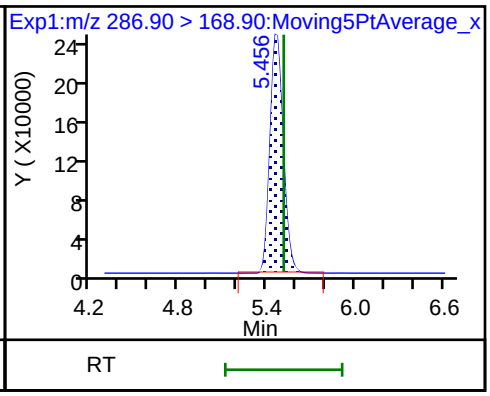
19 PFBS



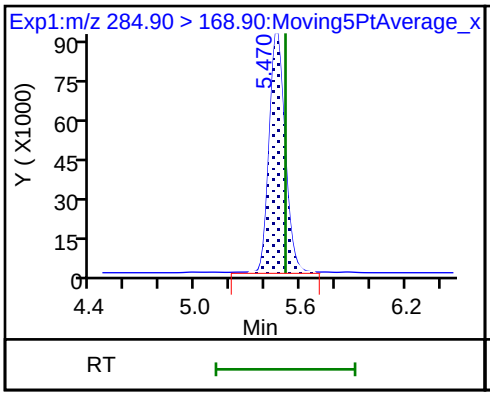
D 18 13C3 PFBS



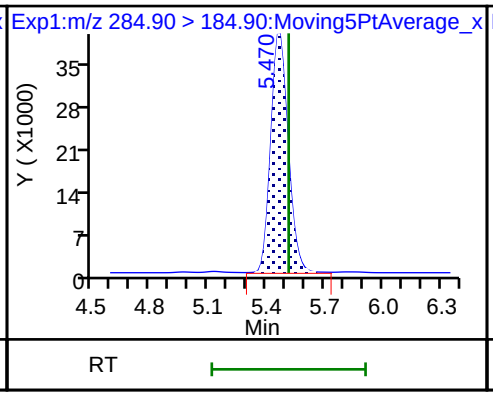
D 21 13C3 HFPO-DA



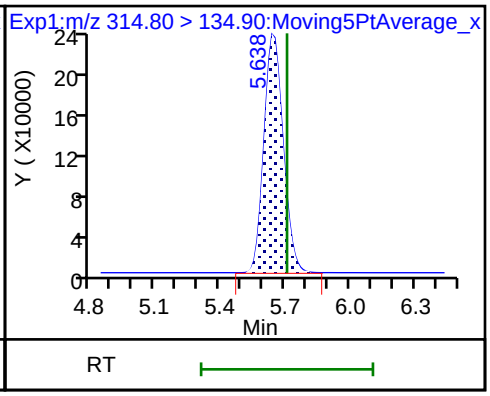
22 HFPO-DA



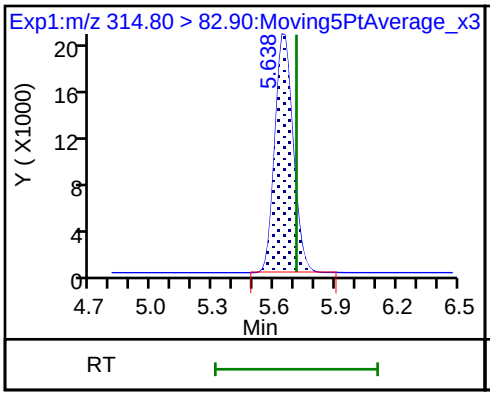
22 HFPO-DA



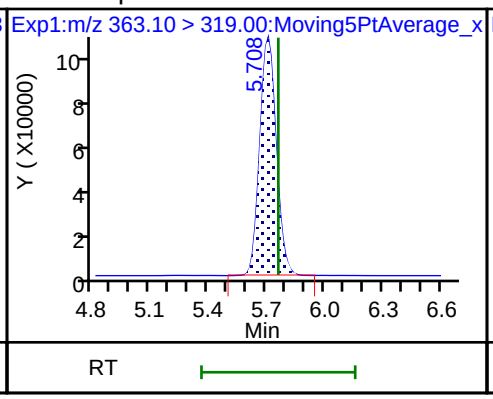
24 PFEESA



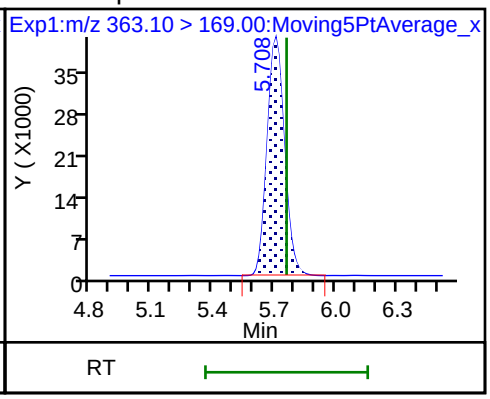
24 PFEESA



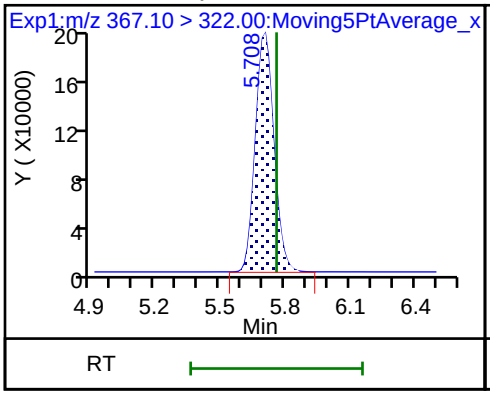
28 PFHpA



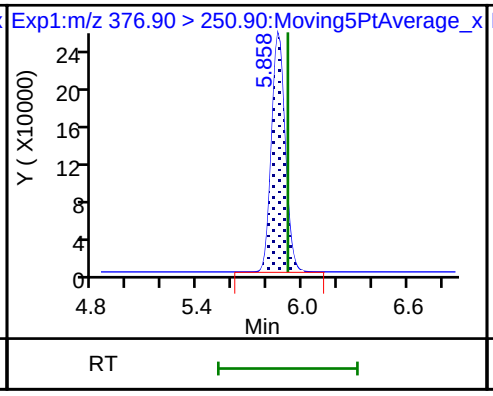
28 PFHpA



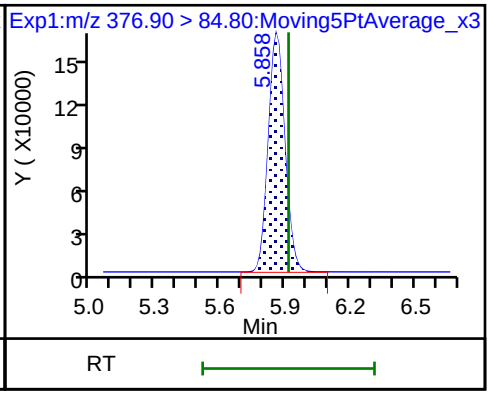
D 26 13C4 PFHpA



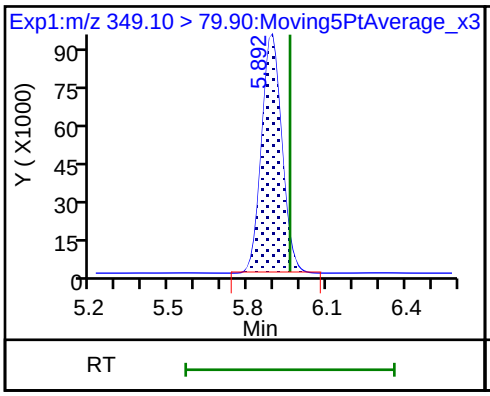
30 ADONA



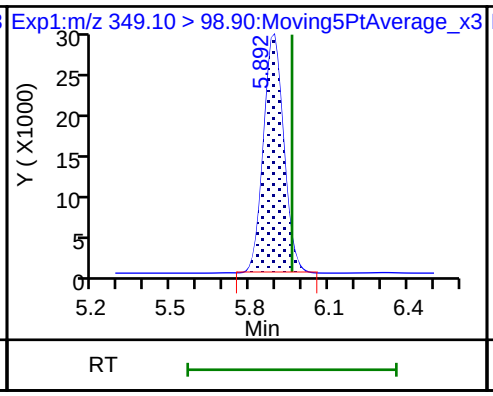
30 ADONA



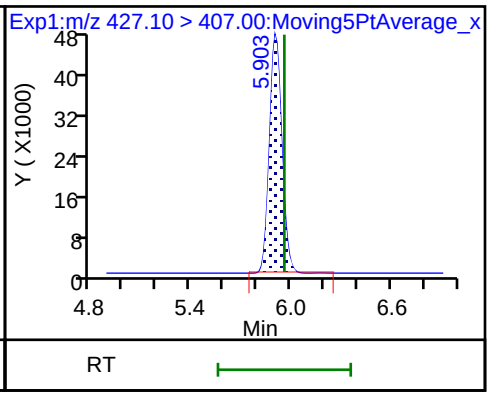
29 PFPeS



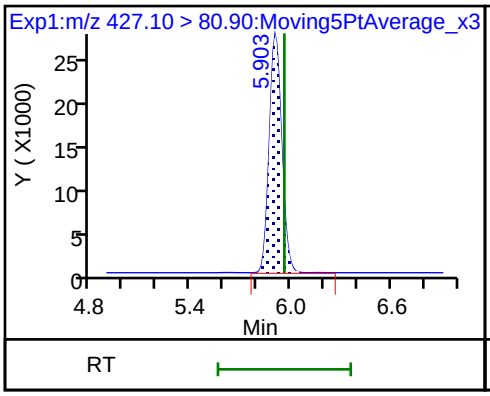
29 PFPeS



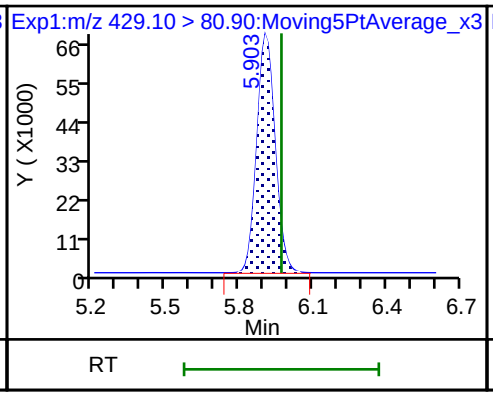
32 6:2FTS



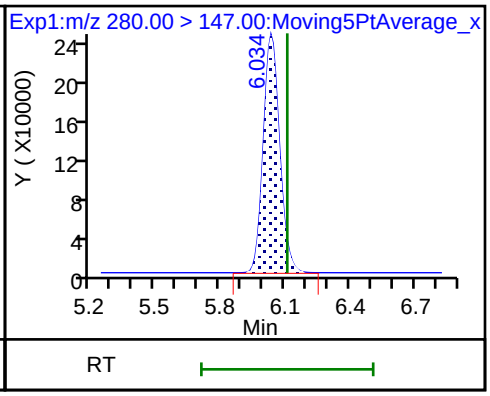
32 6:2FTS



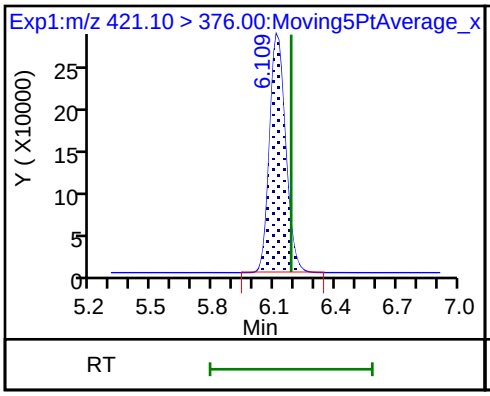
D 31 13C2-6:2FTS



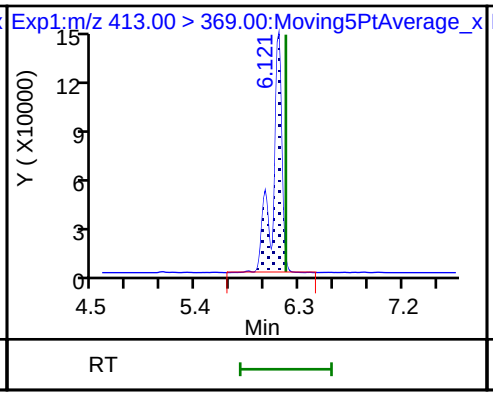
33 BTS



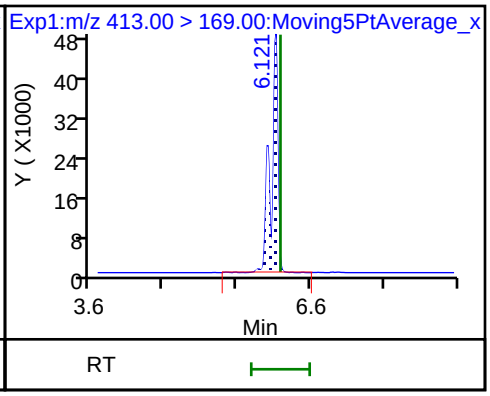
D 34 13C8 PFOA



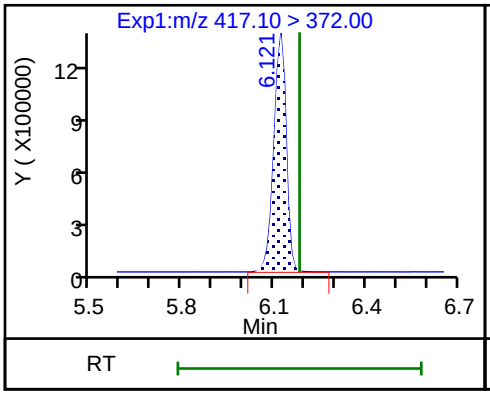
36 PFOA



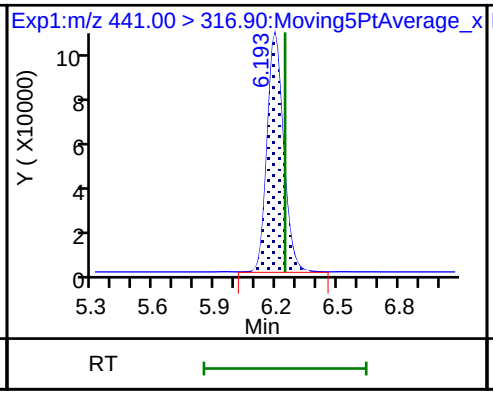
36 PFOA



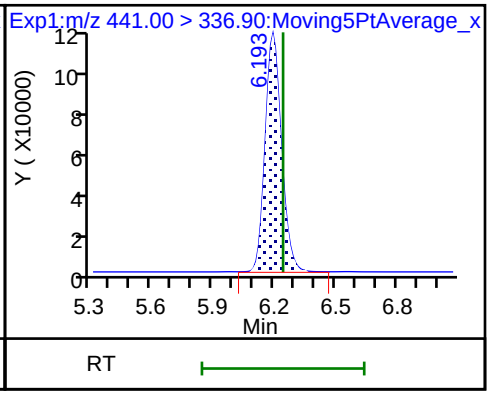
* 35 13C4 PFOA



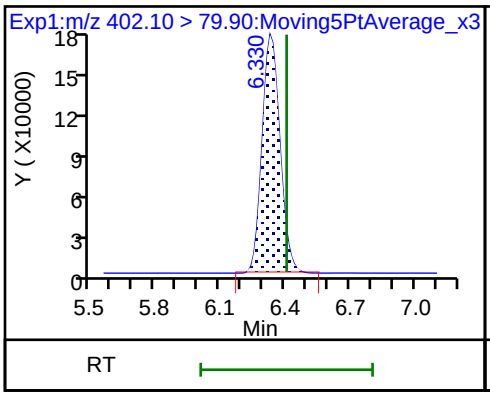
39 7:3 FTCA



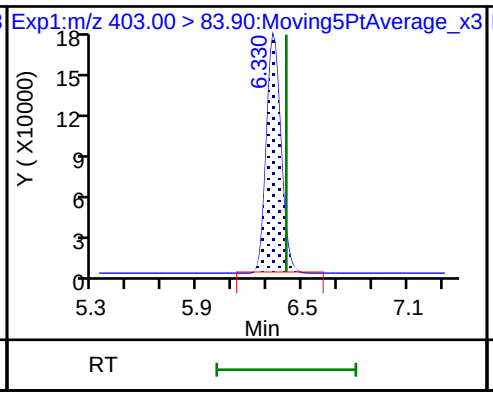
39 7:3 FTCA



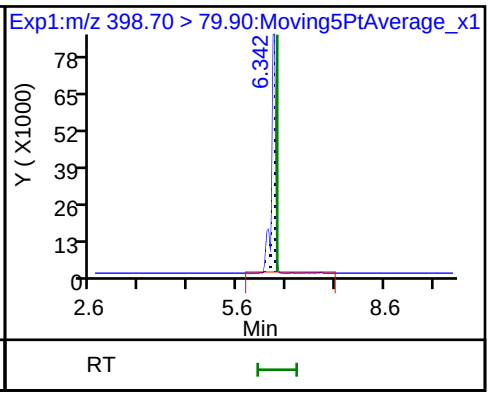
D 38 13C3 PFHxS



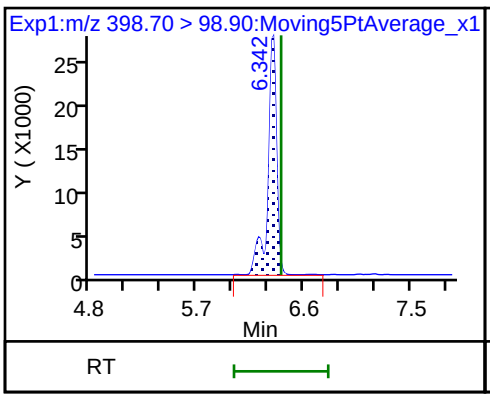
* 37 18O2 PFHxS



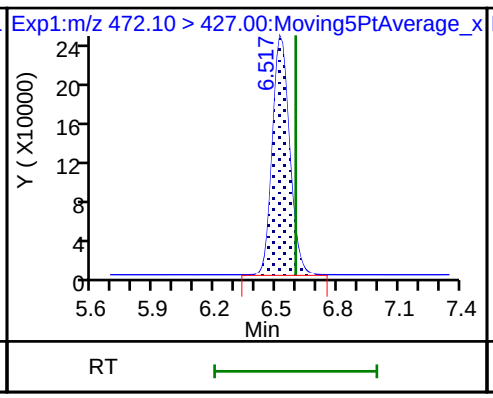
40 PFHxS



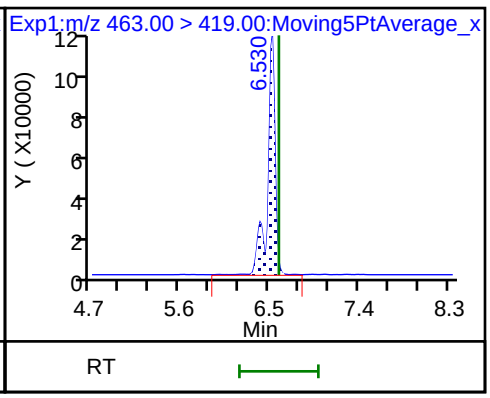
40 PFHxS



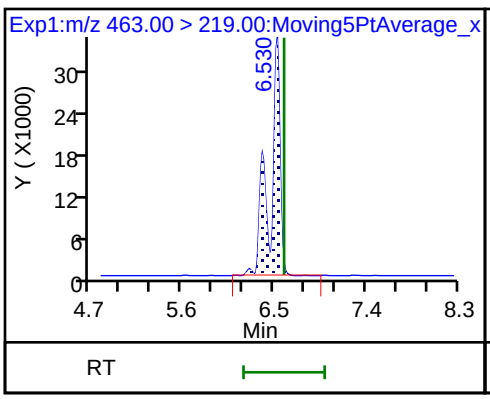
D 41 13C9 PFNA



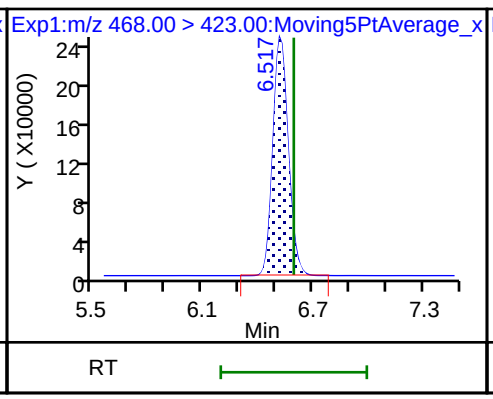
43 PFNA



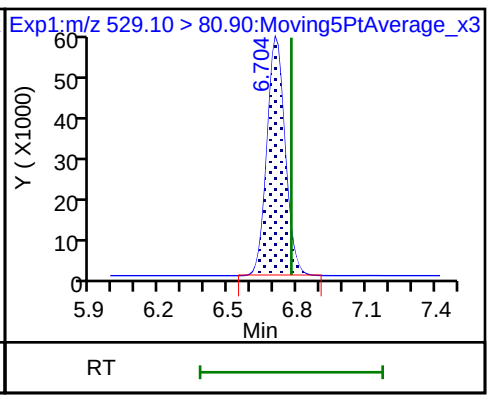
43 PFNA



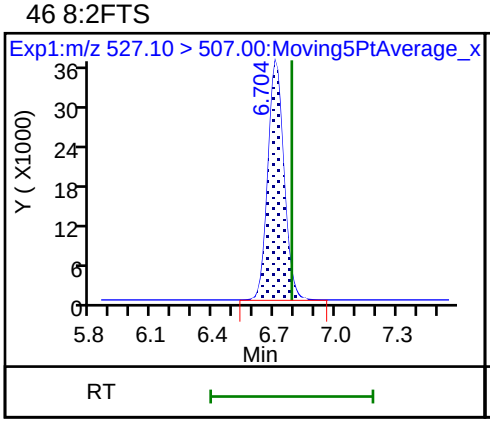
* 42 13C5 PFNA



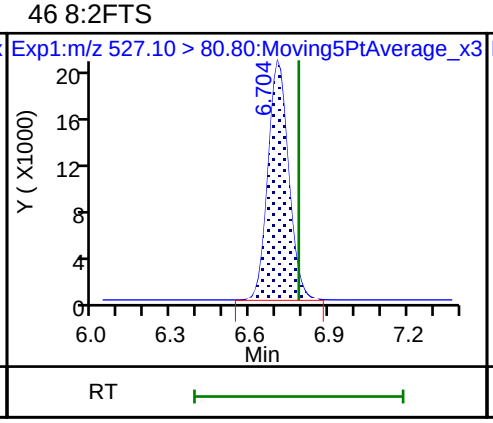
D 45 13C2-8:2FTS



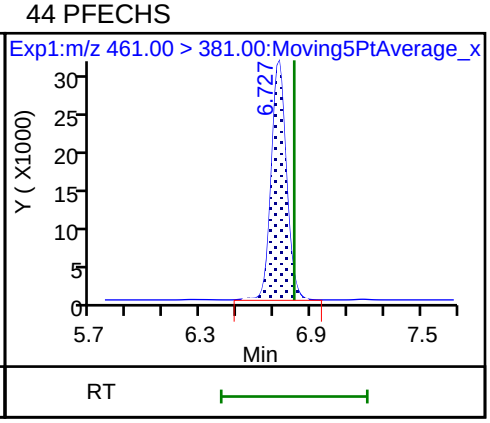
46 8:2FTS



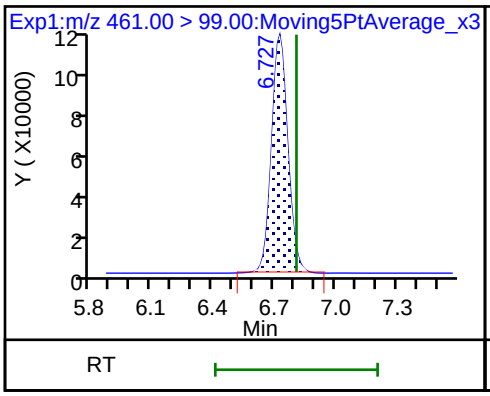
46 8:2FTS



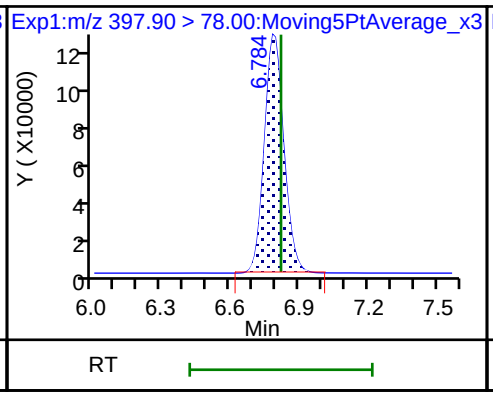
44 PFECHS



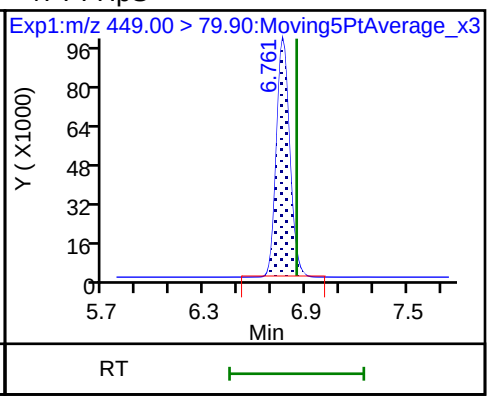
44 PFECHS



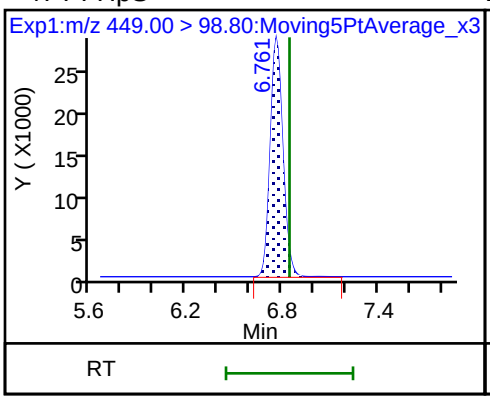
48 FHxSA



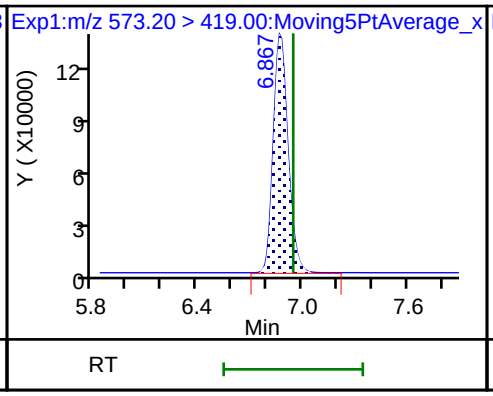
47 PFHpS



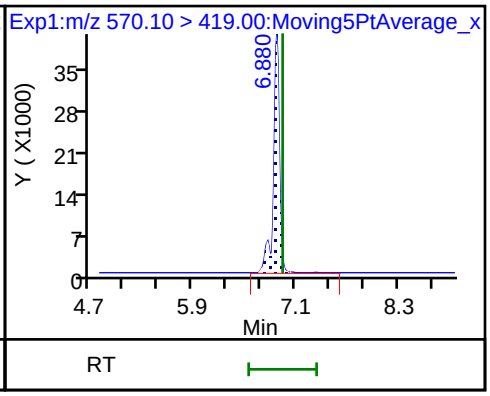
47 PFHpS



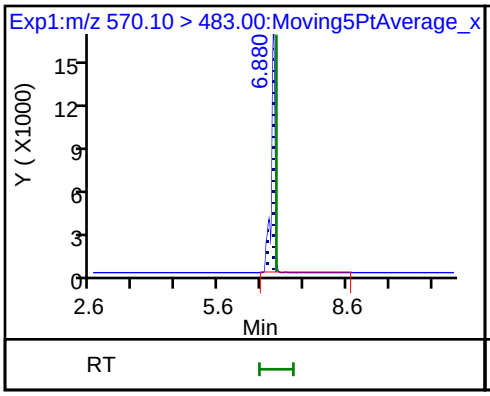
D 49 d3-NMeFOSAA



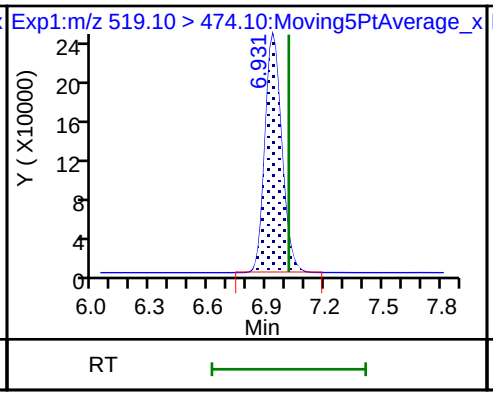
50 NMeFOSAA



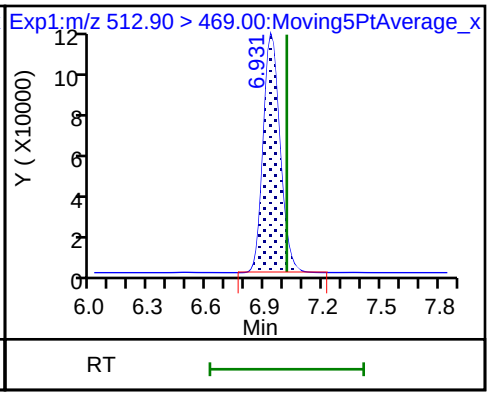
50 NMeFOSAA



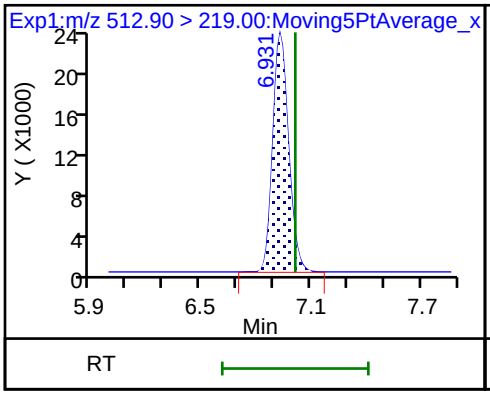
D 51 13C6 PFDA



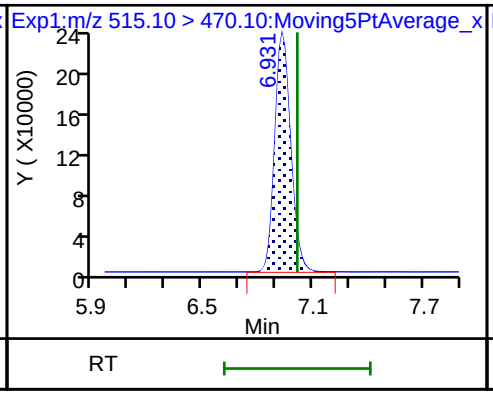
53 PFDA



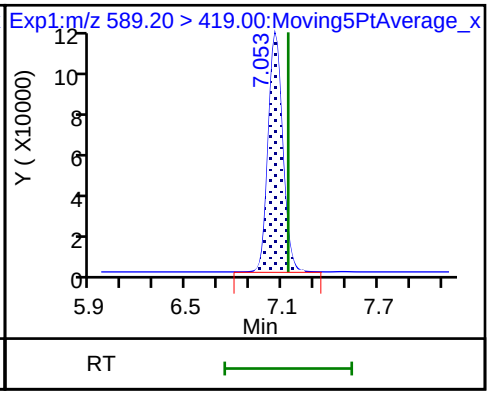
53 PFDA



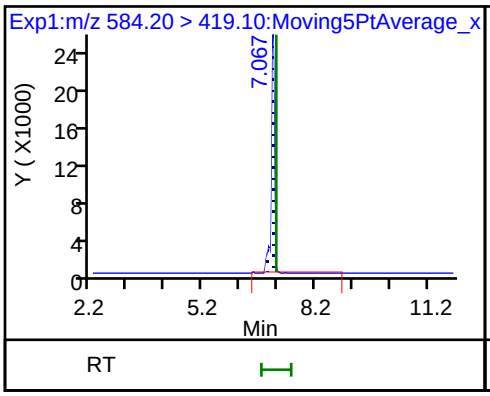
* 52 13C2 PFDA



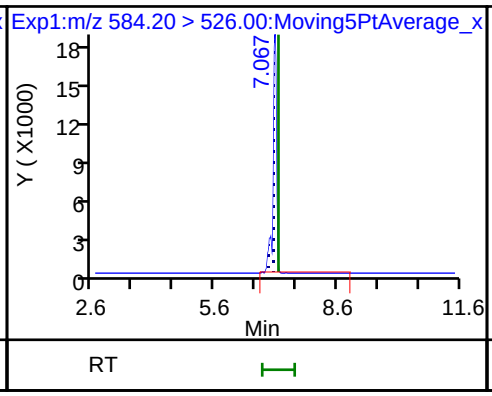
D 54 d5-NEtFOSAA



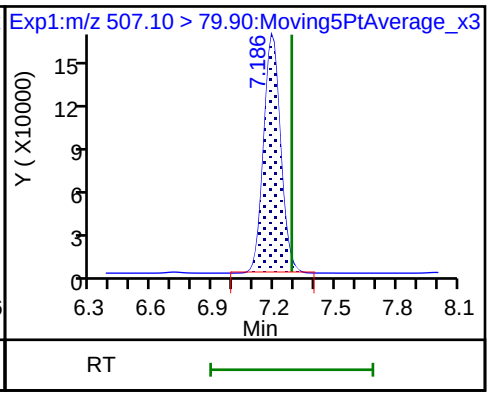
55 NEtFOSAA



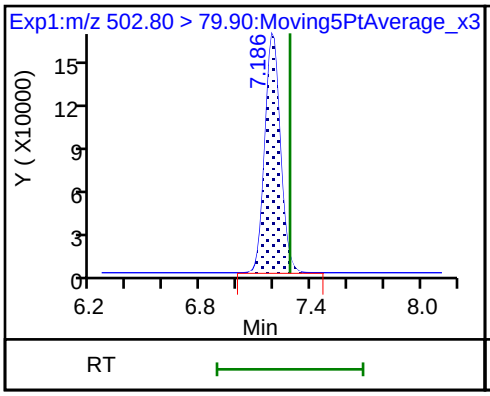
55 NEtFOSAA



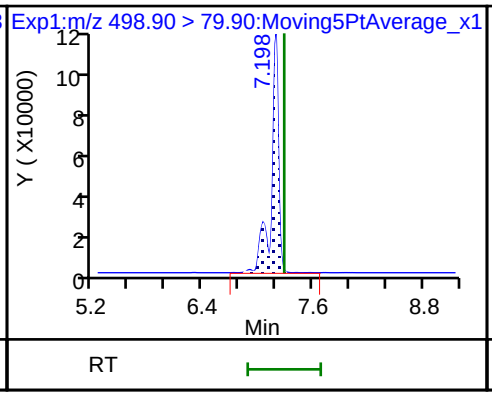
D 56 13C8 PFOS



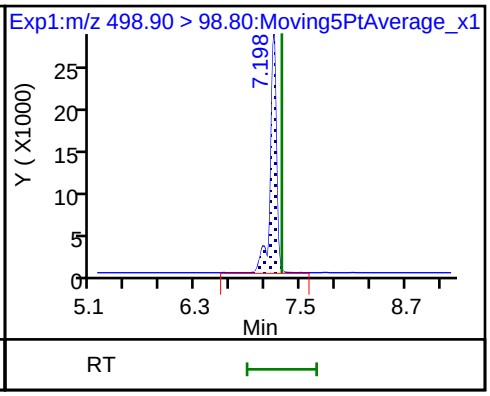
* 57 13C4 PFOS



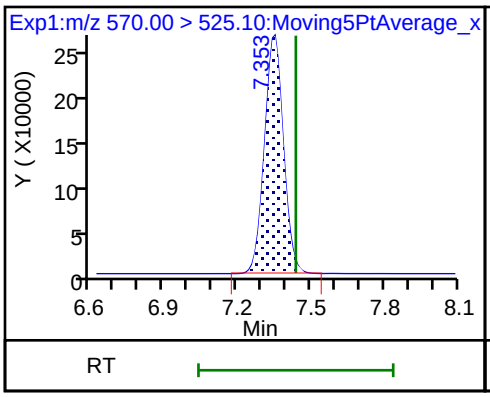
58 PFOS



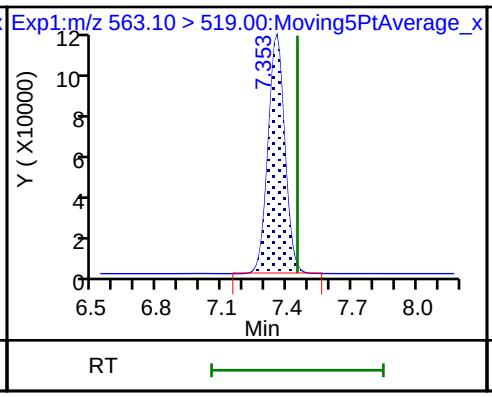
58 PFOS



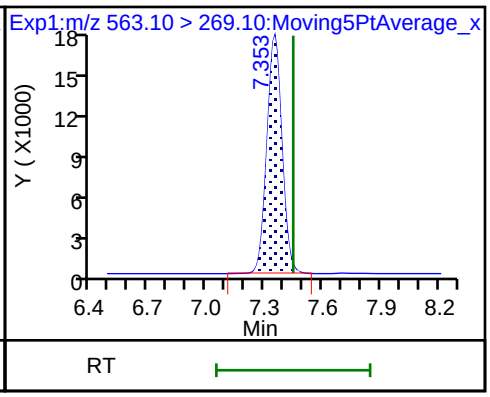
D 59 13C7 PFUnA



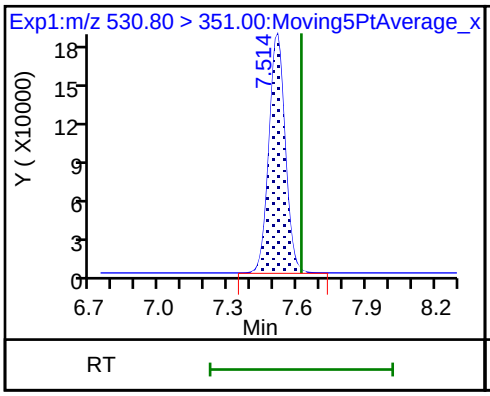
60 PFUnA



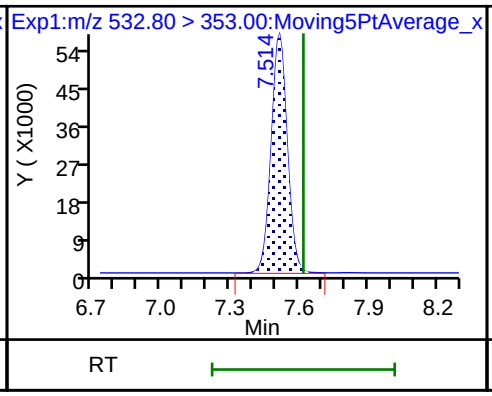
60 PFUnA



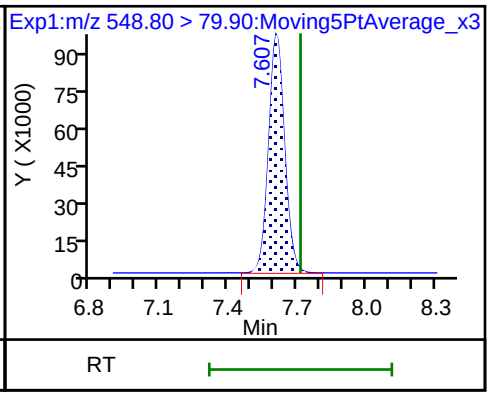
61 9ClFOS



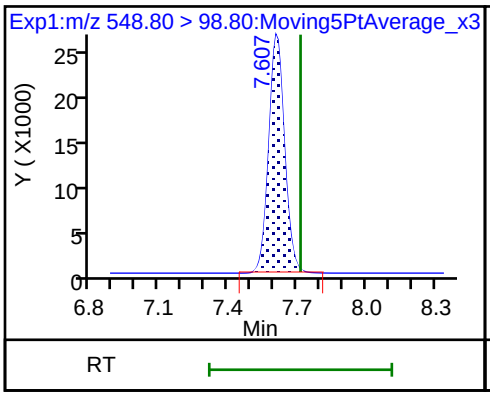
61 9ClFOS



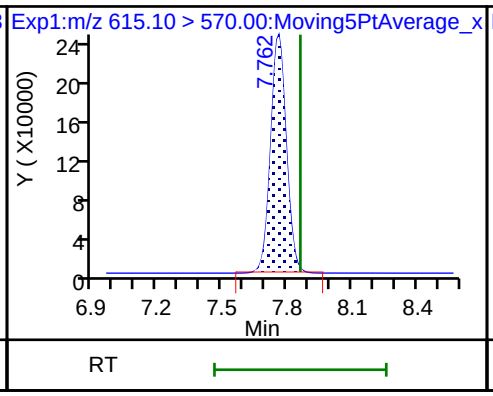
62 PFNS



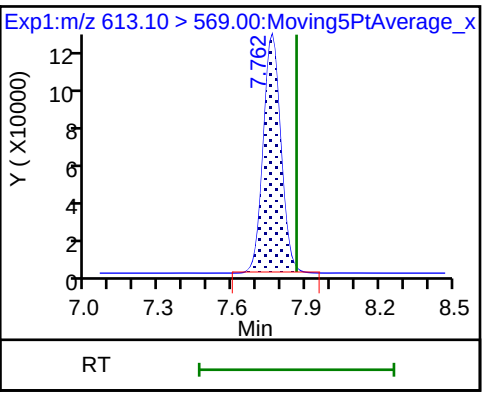
62 PFNS



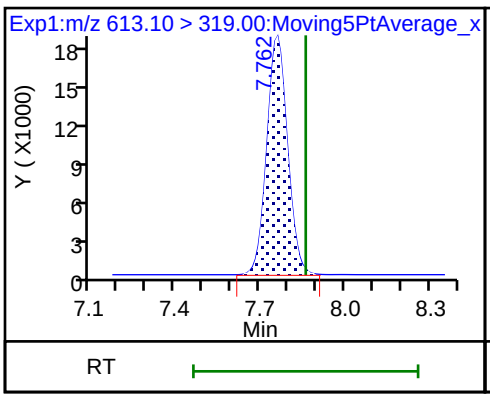
D 82 PFDoA



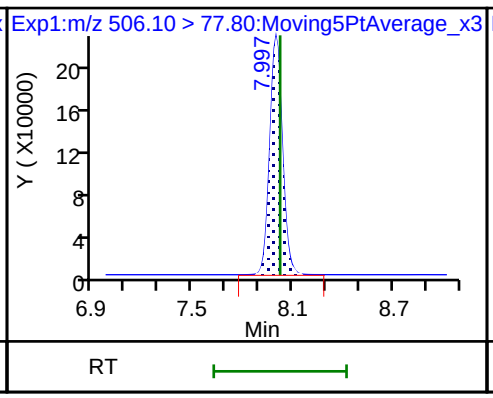
63 PFDoA



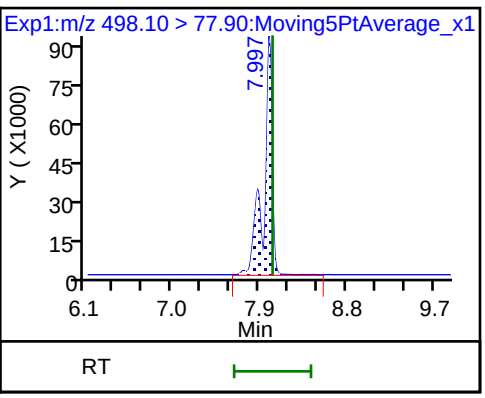
63 PFDoA



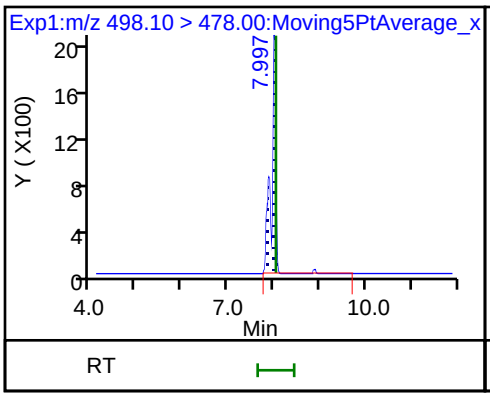
D 64 13C8 FOSA



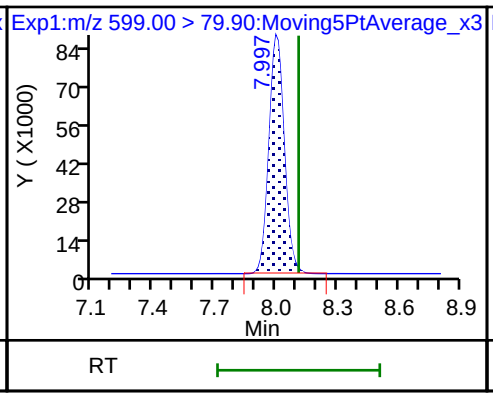
65 PFOSA



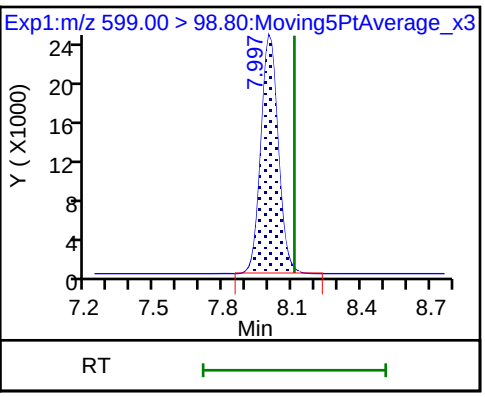
65 PFOSA



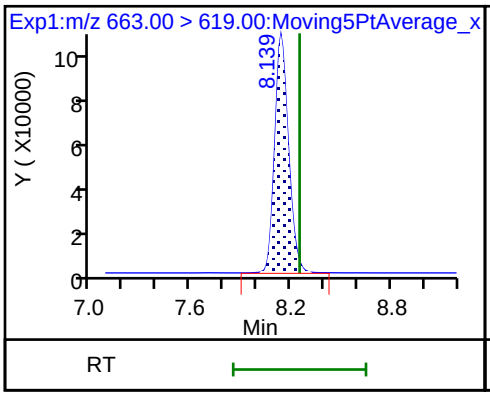
66 PFDS



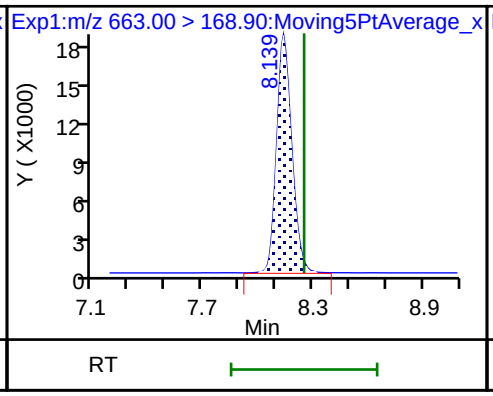
66 PFDS



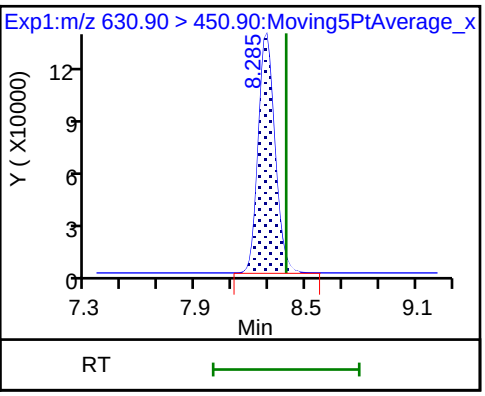
67 PFTrDA



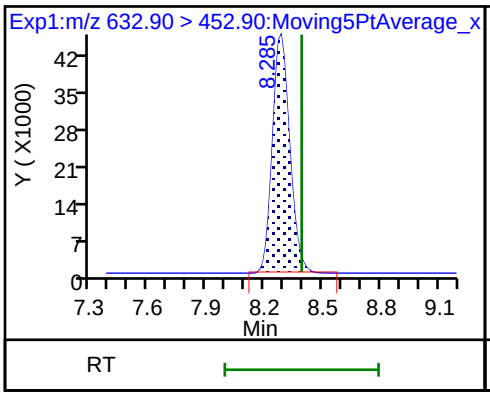
67 PFTrDA



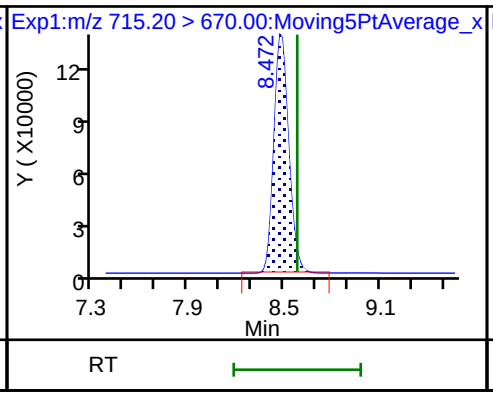
68 11ClFOS



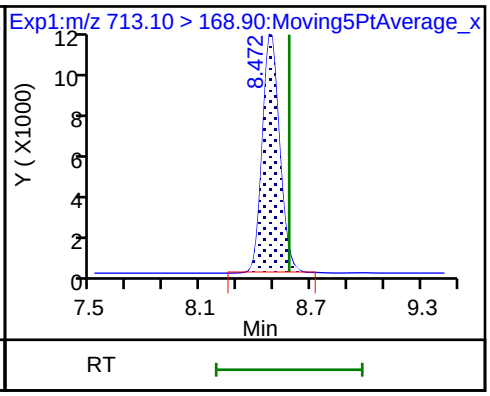
68 11ClFOS



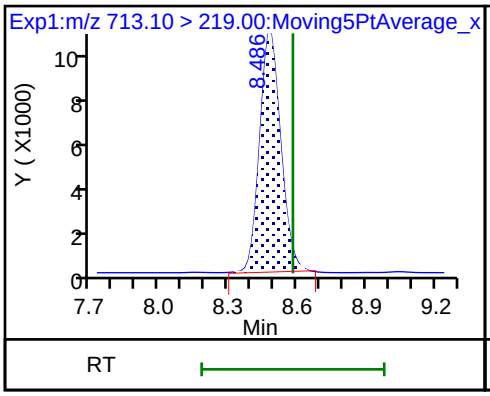
D 69 13C2 PFTeDA



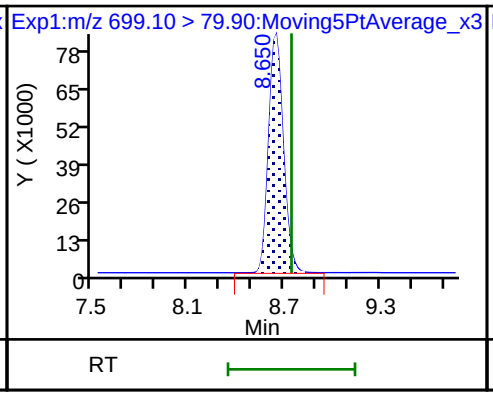
70 PFTeDA



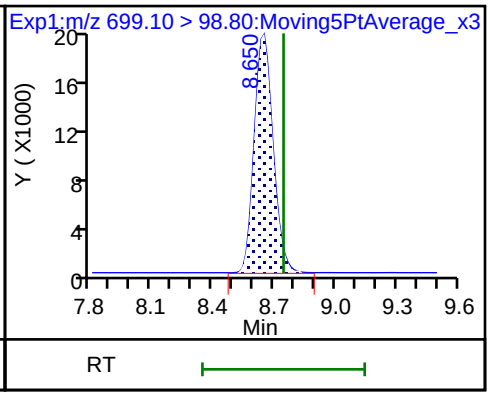
70 PFTeDA



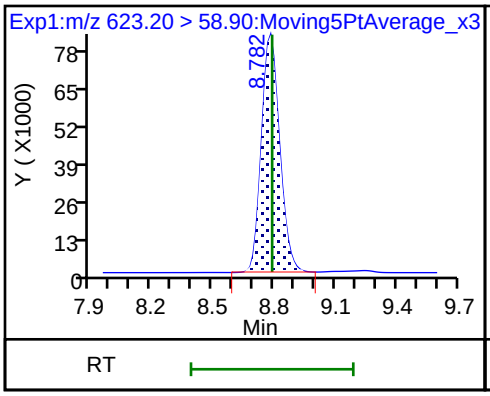
73 PFDoS



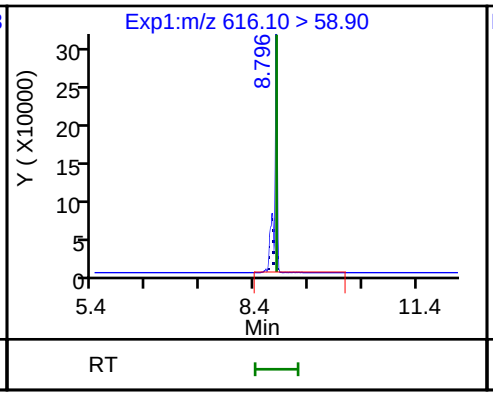
73 PFDoS



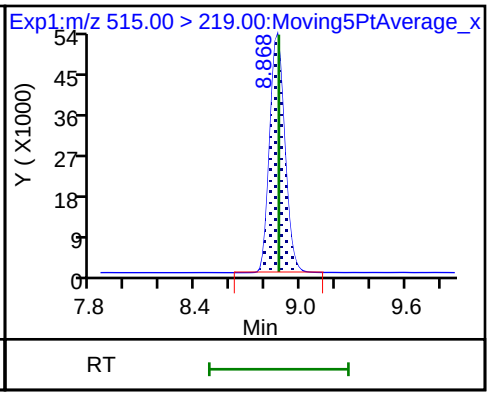
D 71 d7-N-Me-FOSE



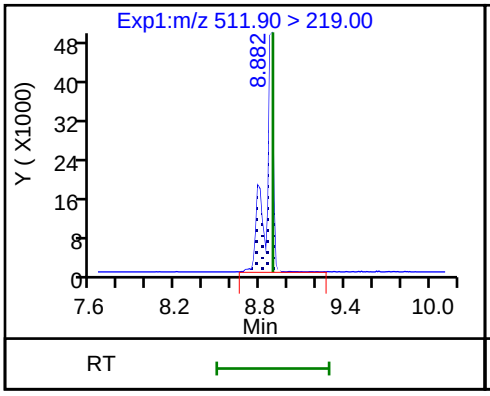
72 N-MeFOSE-M



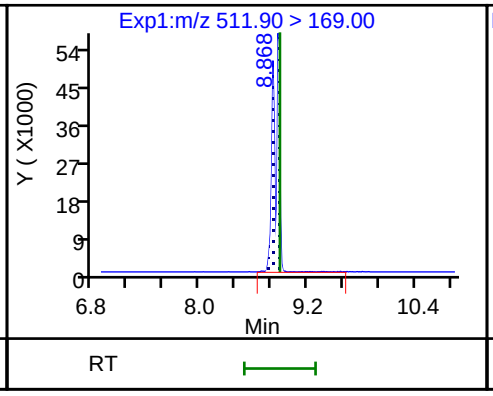
D 74 d3-NMePFOSA



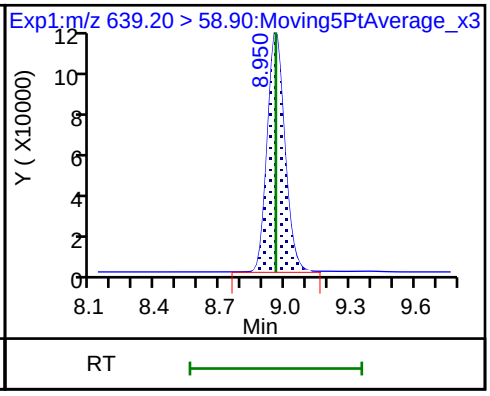
75 NMeFOSA



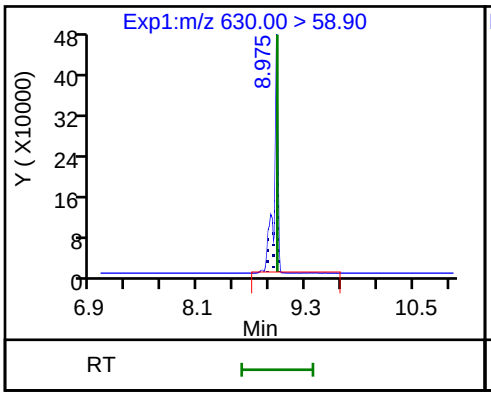
75 NMeFOSA



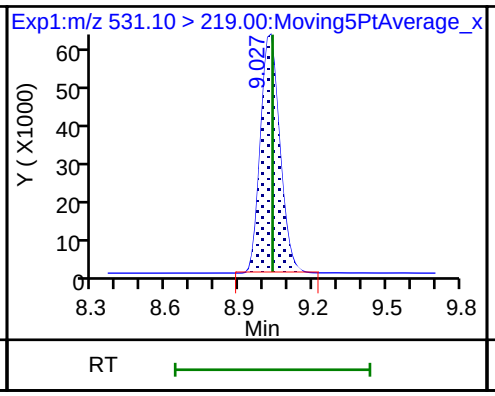
D 76 d9-N-EtFOSE



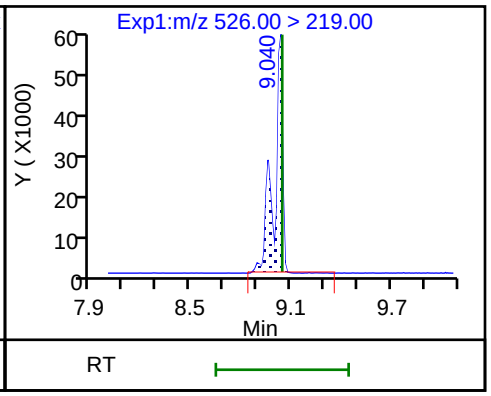
77 N-EtFOSE-M



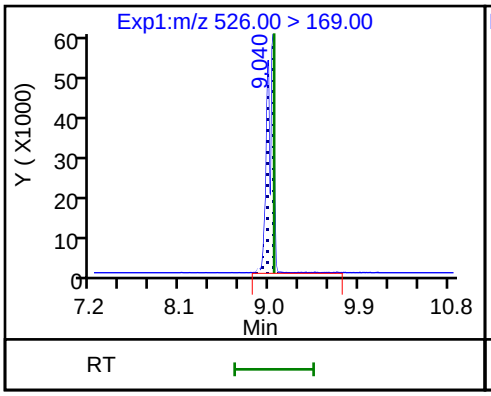
D 78 d5-NEtPFOSA



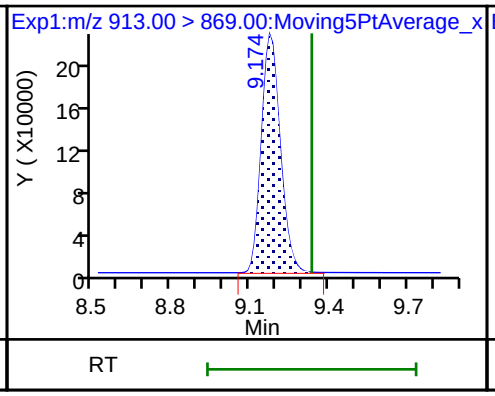
79 N-EtFOSA-M



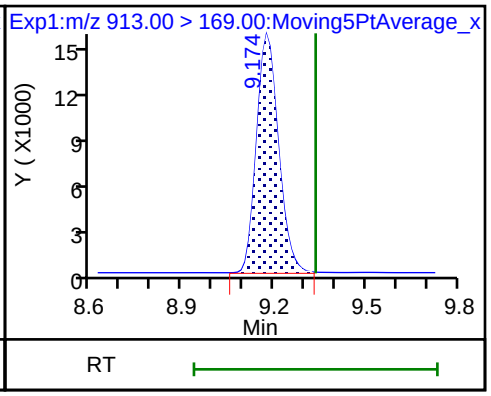
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-606716/1-A

Matrix: Water
Lab File ID: 25FEB17W-06.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:06

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		4.0	1.1
2706-90-3	Perfluoropentanoic acid	ND		2.0	0.60
307-24-4	Perfluorohexanoic acid	ND		2.0	0.50
375-85-9	Perfluoroheptanoic acid	ND		2.0	0.80
335-67-1	Perfluorooctanoic acid	ND		2.0	0.90
375-95-1	Perfluorononanoic acid	ND		2.0	0.50
335-76-2	Perfluorodecanoic acid	ND		2.0	0.50
2058-94-8	Perfluoroundecanoic acid	ND		2.0	0.50
307-55-1	Perfluorododecanoic acid	ND		2.0	0.50
72629-94-8	Perfluorotridecanoic acid	ND		2.0	0.50
376-06-7	Perfluorotetradecanoic acid	ND		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid	ND		2.0	0.50
2706-91-4	Perfluoropentanesulfonic acid	ND		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid	ND		2.0	0.80
375-92-8	Perfluoroheptanesulfonic acid	ND		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid	ND		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid	ND		2.0	0.50
335-77-3	Perfluorodecanesulfonic acid	ND		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.60
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		4.0	1.0
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.0	1.0
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		4.0	1.0
754-91-6	Perfluorooctanesulfonamide	ND		2.0	0.50
31506-32-8	NMeFOSA	ND		2.0	0.50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50
2355-31-9	NMeFOSAA	ND		2.0	0.50
2991-50-6	NEtFOSAA	ND		2.0	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-606716/1-A

Matrix: Water
Lab File ID: 25FEB17W-06.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:06

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		10	2.5
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		10	2.5
13252-13-6	HFPO-DA	ND		2.0	0.75
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		2.0	0.50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		2.0	0.50
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		2.0	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50
113507-82-7	PFEESA	ND		2.0	0.50
356-02-5	3:3 FTCA	ND		4.0	1.0
914637-49-3	5:3 FTCA	ND		10	2.8
812-70-4	7:3 FTCA	ND		10	2.5

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-606716/1-A

Matrix: Water
Lab File ID: 25FEB17W-06.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:06

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	120		5-130
STL01893	13C5 PFPeA	144	*5+	40-130
STL02577	13C5 PFHxA	137	*5+	40-130
STL01892	13C4 PFHpA	156	*5+	40-130
STL01052	13C8 PFOA	105		40-130
STL02578	13C9 PFNA	107		40-130
STL02579	13C6 PFDA	114		40-130
STL02580	13C7 PFUnA	131	*5+	30-130
STL02116	13C2 PFTeDA	131	*5+	10-130
STL02337	13C3 PFBS	124		40-135
STL02581	13C3 PFHxS	112		40-130
STL01054	13C8 PFOS	123		40-130
STL01056	13C8 FOSA	111		40-130
STL02118	d3-NMeFOSAA	119		40-170
STL02117	d5-NEtFOSAA	120		25-135
STL02395	M2-4:2 FTS	103		40-200
STL02279	M2-6:2 FTS	101		40-200
STL02280	M2-8:2 FTS	107		40-300
STL02255	13C3 HFPO-DA	138	*5+	40-130
STL02277	d7-N-MeFOSE-M	114		10-130
STL02278	d9-N-EtFOSE-M	112		10-130
STL02704	d5-NEtPFOSA	78.0		10-130
STL02705	d3-NMePFOSA	81.2		10-130
STL00998	13C2 PFDoA	123		10-130

Report Date: 17-Feb-2025 18:30:47 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-06.d
Lims ID: MB 410-606716/1-A
Client ID:
Sample Type: MB
Inject. Date: 17-Feb-2025 17:06:59 ALS Bottle#: 11 Worklist Smp#: 79
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-606716/1-A
Misc. Info.: Plate: 2 Rack: 1 410-0138392-079
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:39 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 17:26:56
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.917	2.118	-0.201	0.458	697727	2.12		106	15058	
D 3 13C4-PFBA										
216.80 > 171.90	4.182	4.224	-0.042	1.000	1324663	2.41		120	69001	
* 4 13C3PFBA										
216.00 > 172.00	4.182	4.224	-0.042		1030480	2.00			19469	
D 8 13C5 PFPeA										
268.30 > 223.00	4.841	4.866	-0.025	0.914	742296	2.88		144	49395	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.113	5.139	-0.026	0.804	309351	4.83		103	14260	
D 15 13C5 PFHxA										
318.00 > 273.00	5.295	5.318	-0.023	1.000	1026177	2.75		137	60544	
* 16 13C2 PFHxA										
315.10 > 270.00	5.295	5.318	-0.023		2112703	5.00			124664	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.456	-0.042	0.852	1027534	2.31		124	55166	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.484	5.514	-0.030	1.036	1276622	2.76		138	68936	
D 26 13C4 PFHpA										
367.10 > 322.00	5.722	5.760	-0.038	1.081	1183137	3.12		156	68254	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.927	5.971	-0.044	0.932	323623	4.82		101	21340	
D 34 13C8 PFOA										
421.10 > 376.00	6.134	6.183	-0.049	0.998	1390641	2.10		105	64339	
* 35 13C4 PFOA										
417.10 > 372.00	6.146	6.183	-0.037		3102020	5.00			597158	
D 38 13C3 PFHxS										
402.10 > 79.90	6.357	6.407	-0.050	1.000	883954	2.12		112	51259	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 37 18O2 PFHxS										
403.00 > 83.90	6.357	6.407	-0.050		768313	1.89			44609	
D 41 13C9 PFNA										
472.10 > 427.00	6.544	6.595	-0.051	1.000	1265566	2.13		107	55211	
* 42 13C5 PFNA										
468.00 > 423.00	6.544	6.595	-0.051		1159911	2.00			50737	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.728	6.774	-0.046	1.058	296282	5.12		107	18485	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.895	6.947	-0.052	0.956	758832	5.94		119	43716	
D 51 13C6 PFDA										
519.10 > 474.10	6.960	7.014	-0.054	1.000	1275732	2.27		114	52242	
* 52 13C2 PFDA										
515.10 > 470.10	6.960	7.014	-0.054		1063835	2.00			43819	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.084	7.137	-0.053	0.982	629900	6.01		120	33622	
D 56 13C8 PFOS										
507.10 > 79.90	7.213	7.285	-0.072	1.000	882871	2.35		123	38514	
* 57 13C4 PFOS										
502.80 > 79.90	7.213	7.285	-0.072		700870	1.91			40558	
D 59 13C7 PFUnA										
570.00 > 525.10	7.376	7.438	-0.062	1.060	1369708	2.62		131	67084	
D 82 PFDoA										
615.10 > 570.00	7.794	7.862	-0.068	1.120	1081591	2.46		123	55176	
D 64 13C8 FOSA										
506.10 > 77.80	7.990	8.022	-0.032	1.108	992694	2.22		111	47082	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.522	8.581	-0.059	1.224	814576	2.62		131	42392	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.788	8.789	-0.001	1.218	396551	5.70		114	7115	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.875	8.876	-0.001	1.230	190773	1.62		81.2	8005	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.242	504668	5.58		112	15069	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.021	9.034	-0.013	1.251	206394	1.56		78.0	12664	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 18:30:47 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-06.d

Injection Date: 17-Feb-2025 17:06:59 Instrument ID: 30576

Lims ID: MB 410-606716/1-A

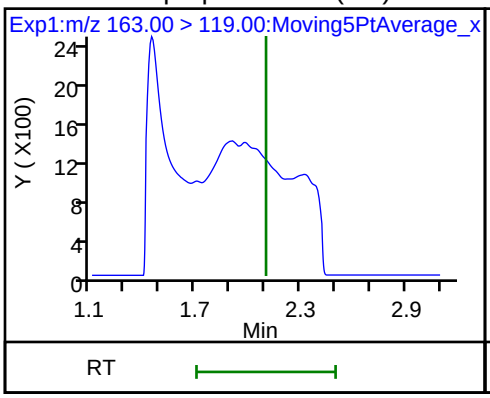
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 11 Worklist Smp#: 79

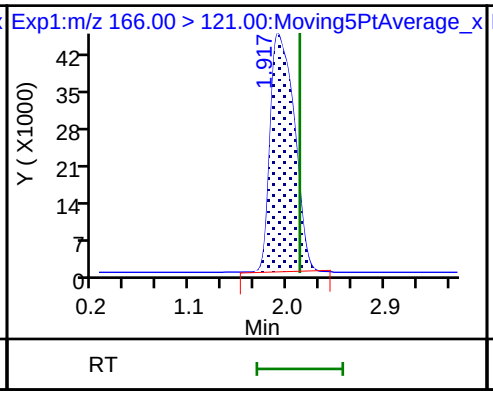
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

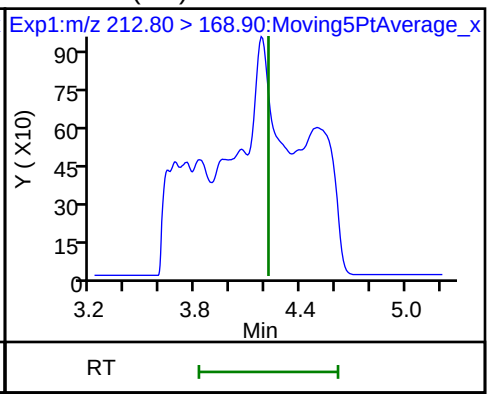
2 Perfluoropropionic acid (ND)



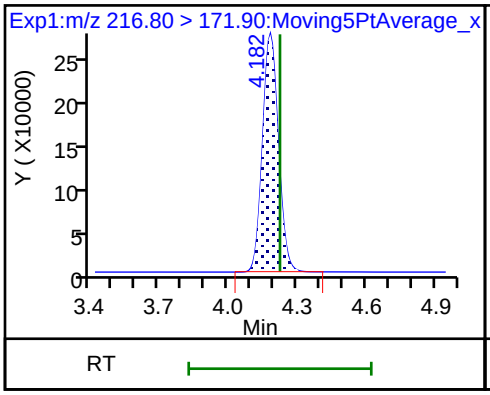
D 1 13C3PFPrA



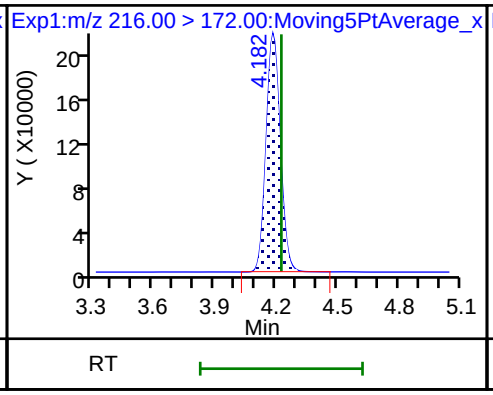
5 PFBA (ND)



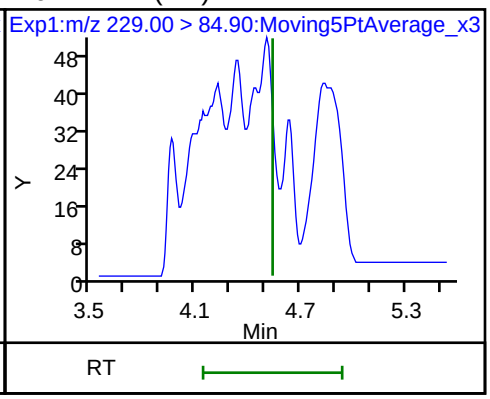
D 3 13C4-PFBA



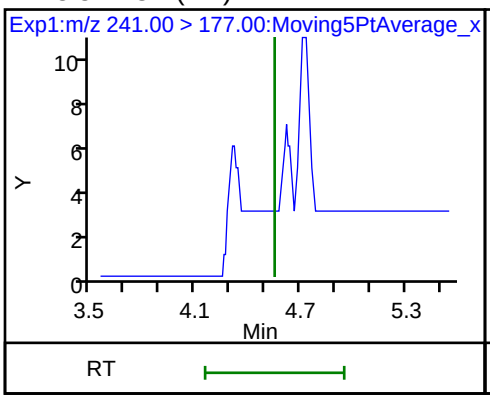
* 4 13C3PFBA



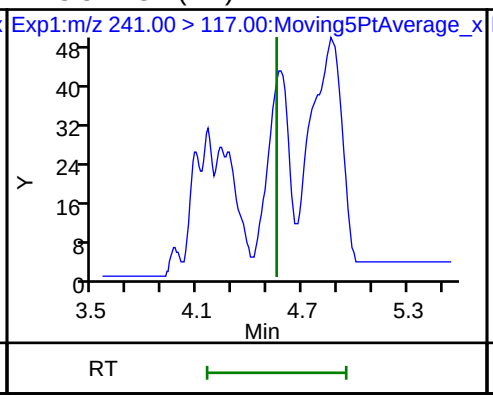
6 PFMPA (ND)



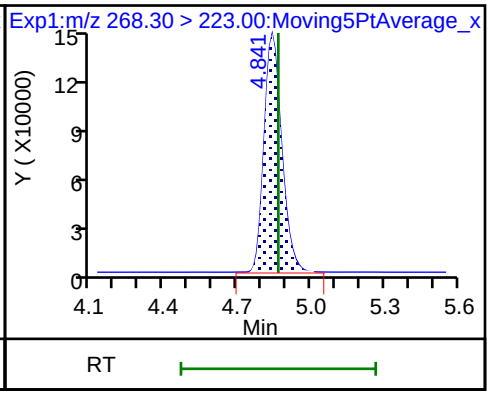
7 3:3 FTCA (ND)



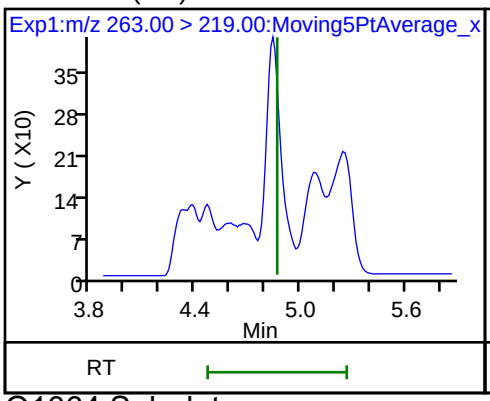
7 3:3 FTCA (ND)



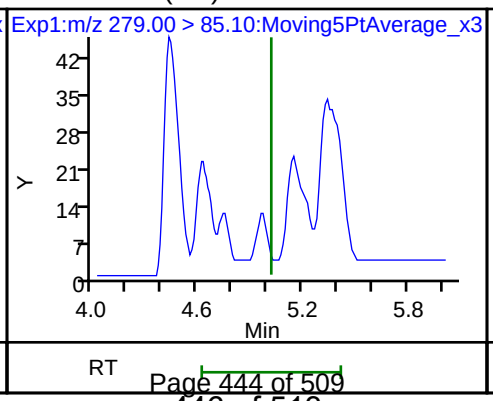
D 8 13C5 PFPeA



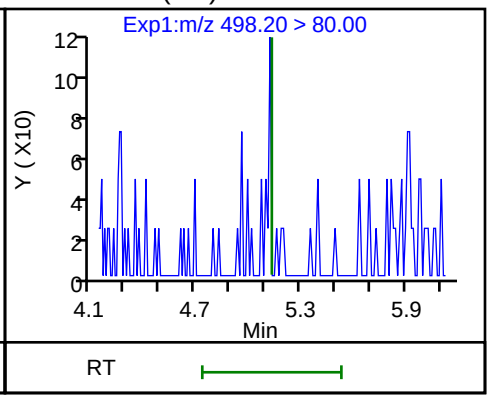
9 PFPA (ND)



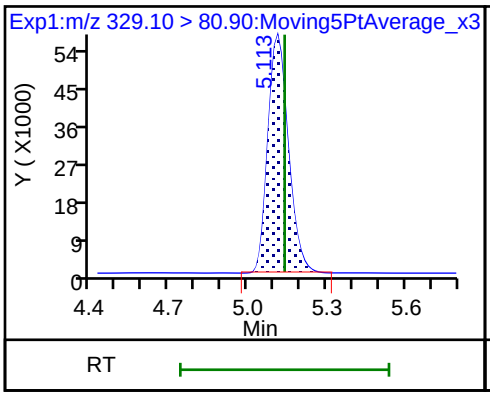
10 PFMBA (ND)



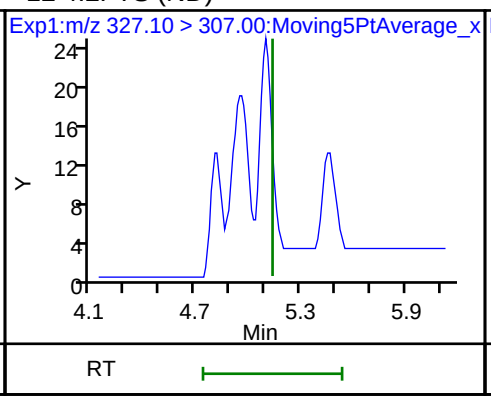
13 TUDCA (ND)



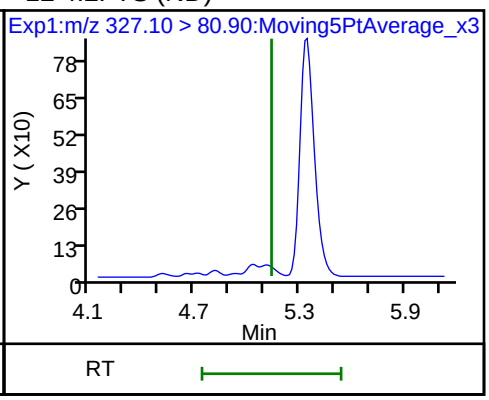
D 11 13C2-4:2FTS



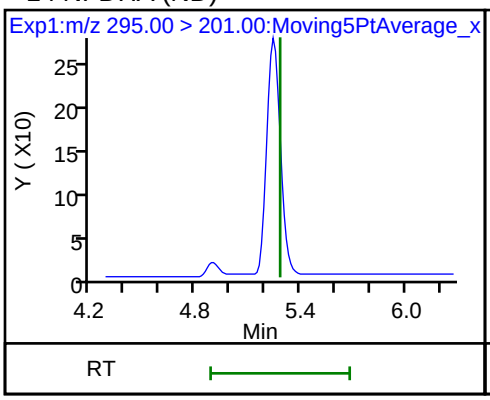
12 4:2FTS (ND)



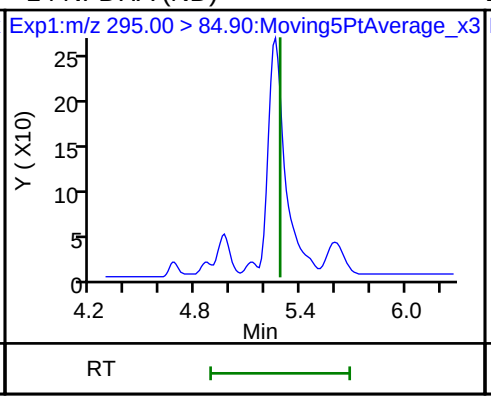
12 4:2FTS (ND)



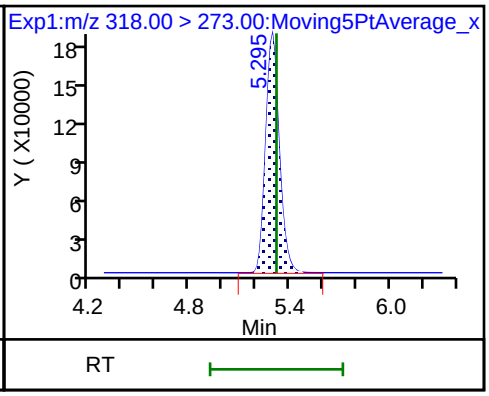
14 NFDHA (ND)



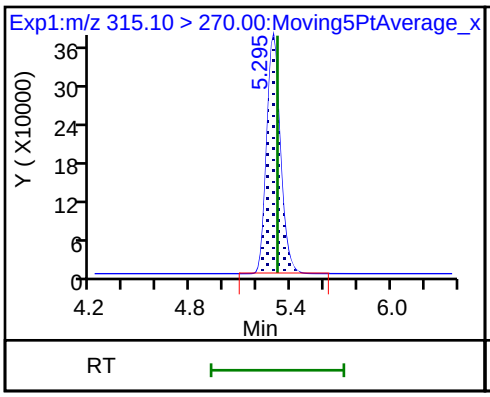
14 NFDHA (ND)



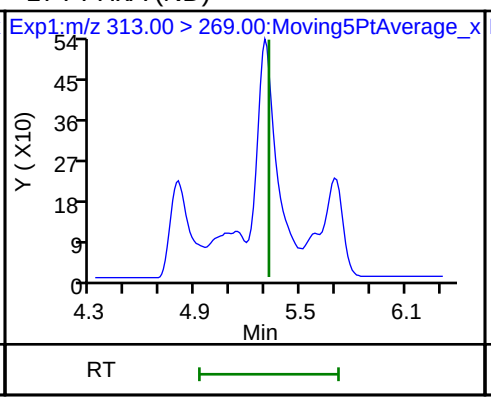
D 15 13C5 PFHxA



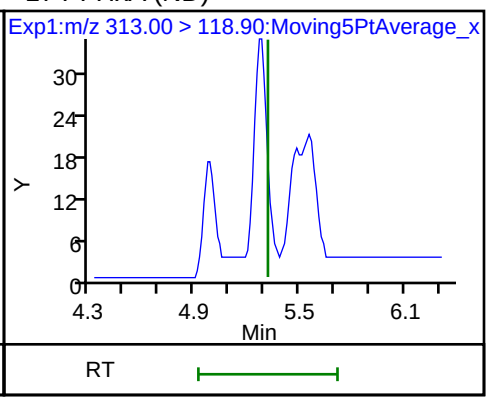
* 16 13C2 PFHxA



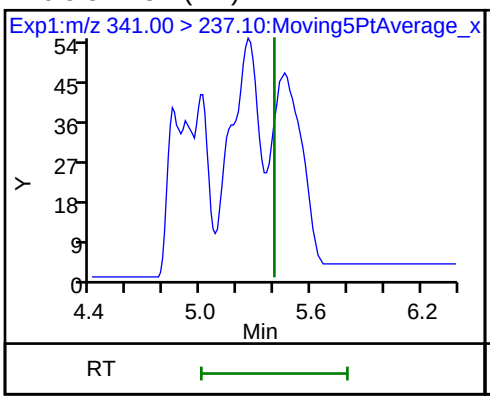
17 PFHxA (ND)



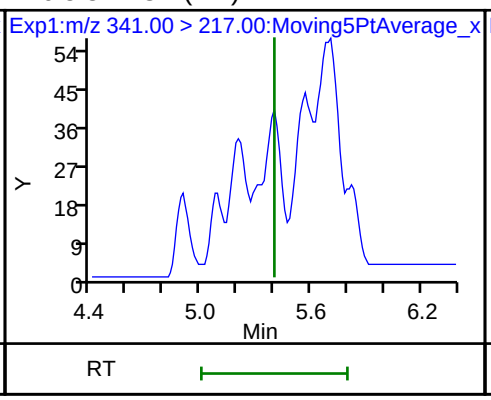
17 PFHxA (ND)



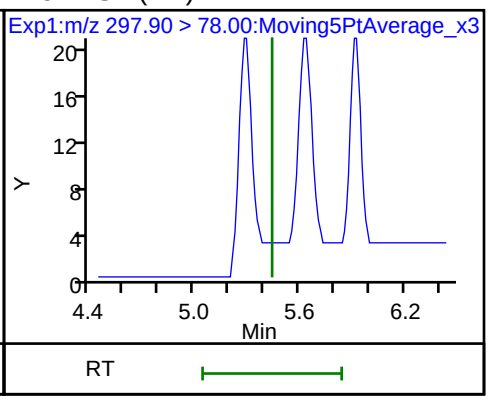
20 5:3 FTCA (ND)



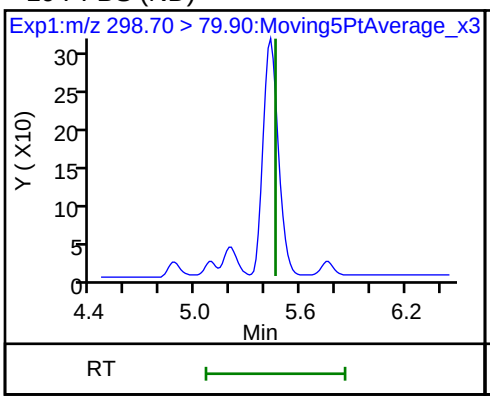
20 5:3 FTCA (ND)



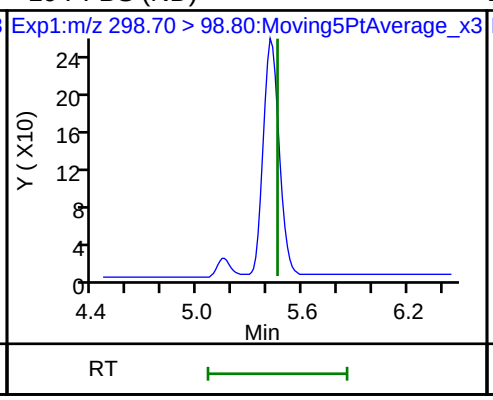
25 FBSA (ND)



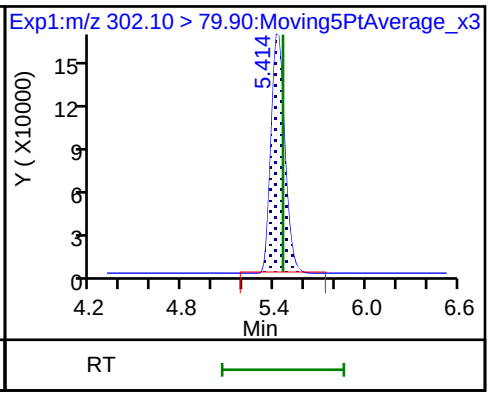
19 PFBS (ND)



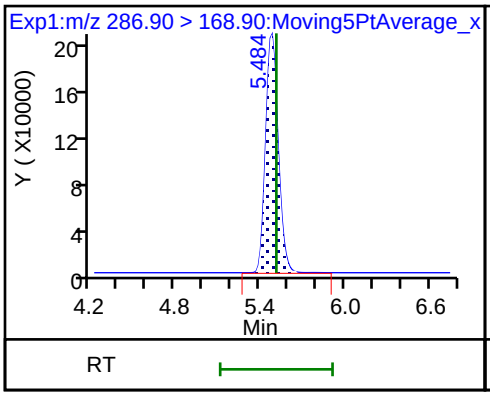
19 PFBS (ND)



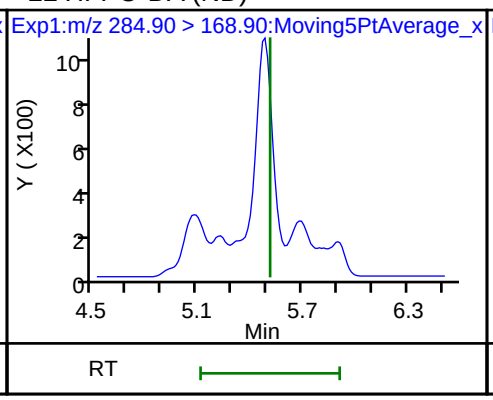
D 18 13C3 PFBS



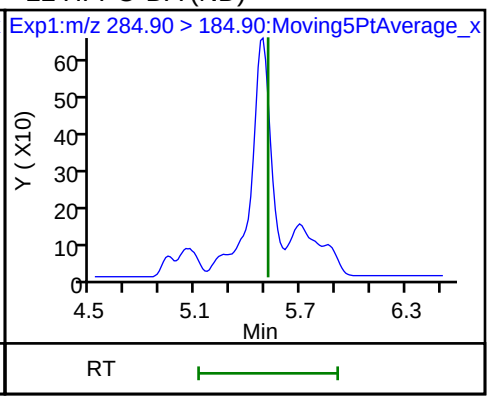
D 21 13C3 HFPO-DA



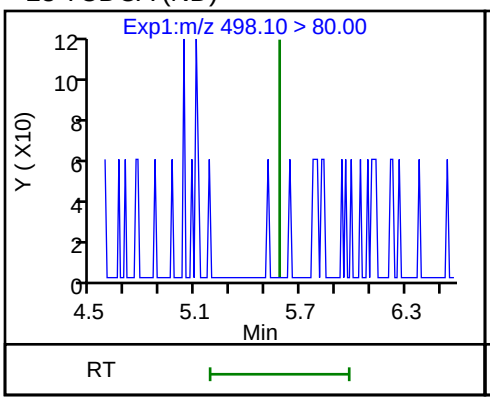
22 HFPO-DA (ND)



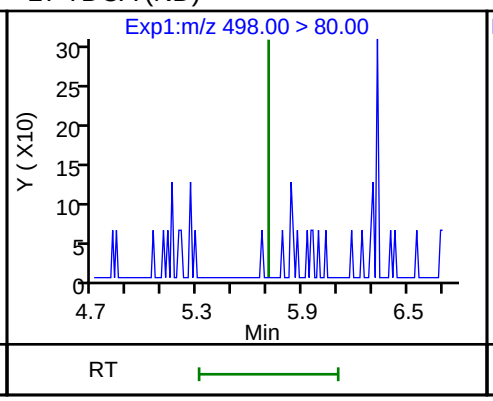
22 HFPO-DA (ND)



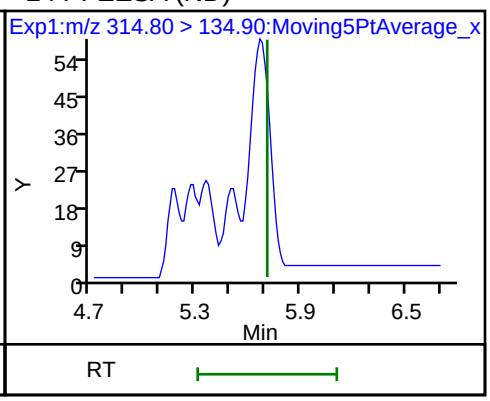
23 TCDCA (ND)



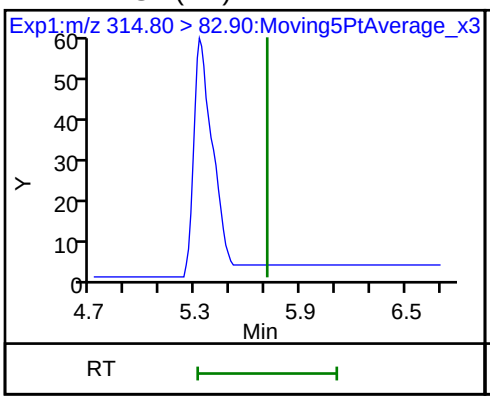
27 TDCA (ND)



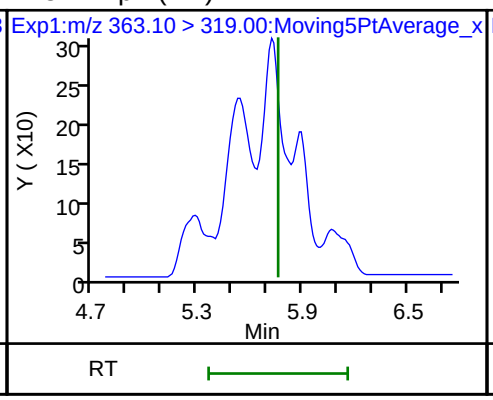
24 PFEESA (ND)



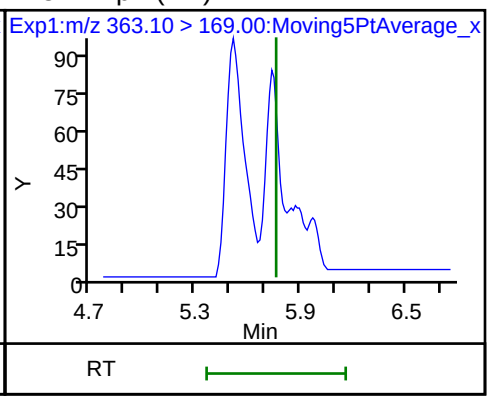
24 PFEESA (ND)



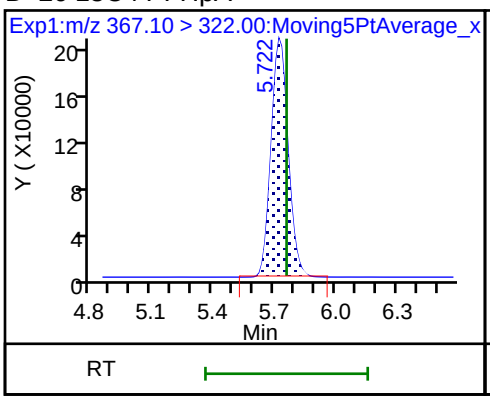
28 PFHpA (ND)



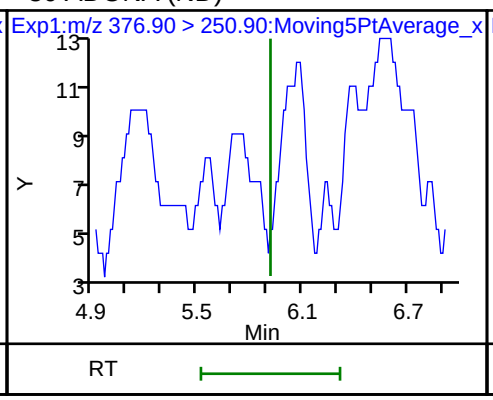
28 PFHpA (ND)



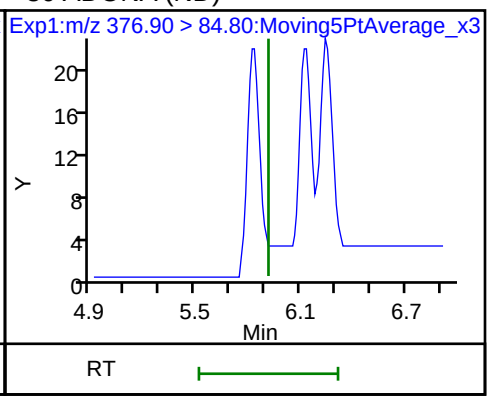
D 26 13C4 PFHpA



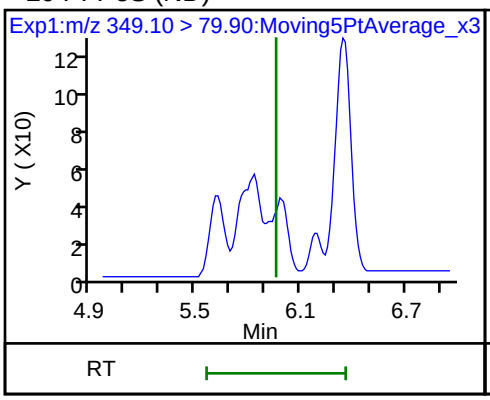
30 ADONA (ND)



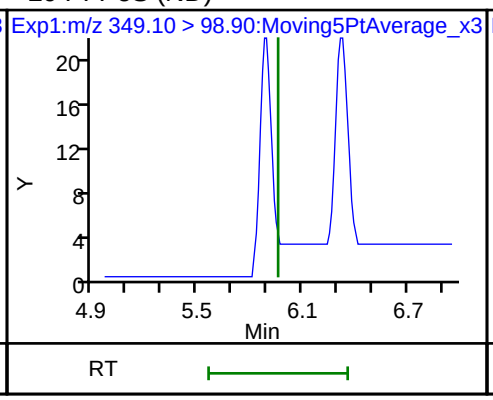
30 ADONA (ND)



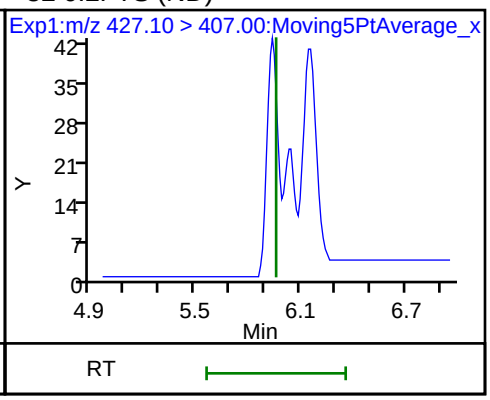
29 PFPeS (ND)



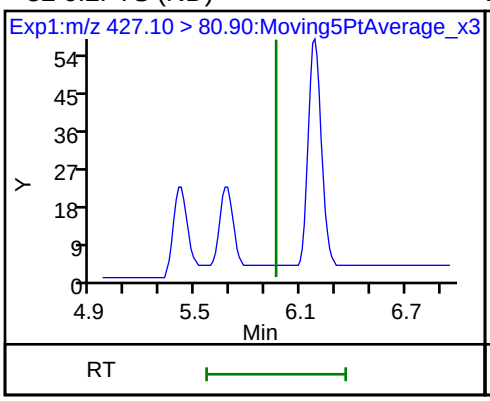
29 PFPeS (ND)



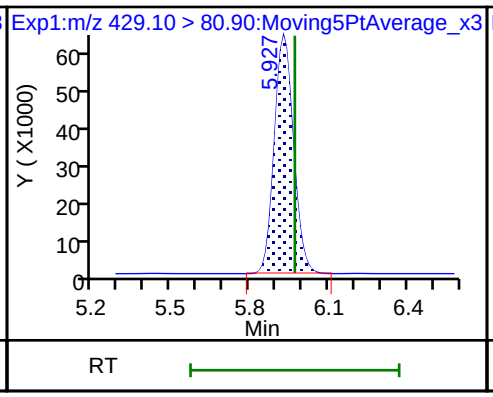
32 6:2FTS (ND)



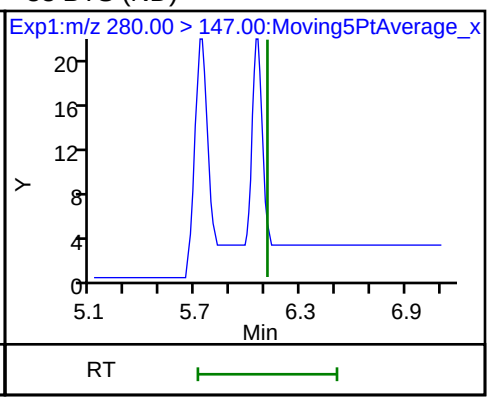
32 6:2FTS (ND)



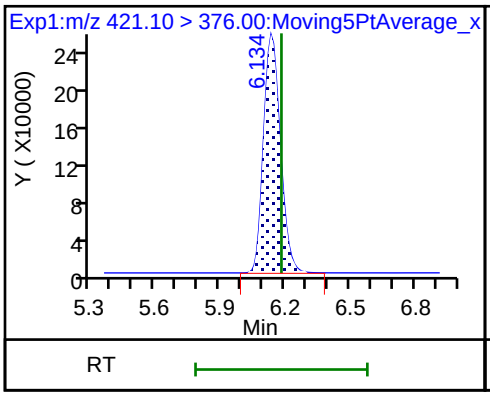
D 31 13C2-6:2FTS



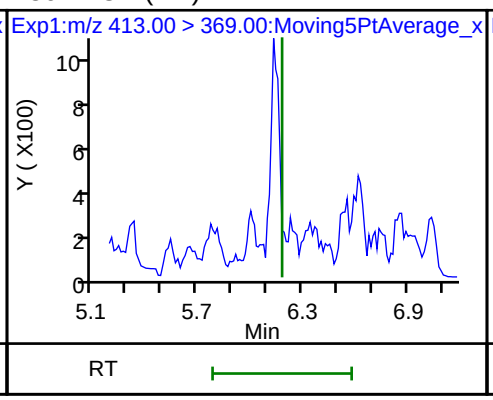
33 BTS (ND)



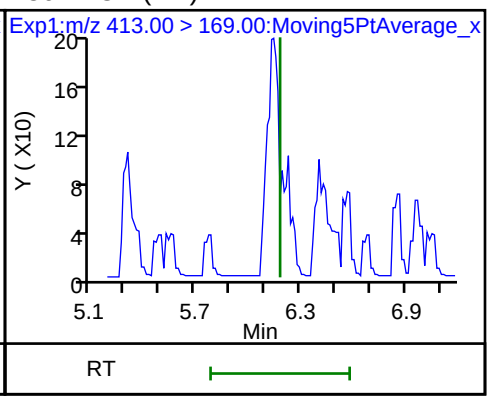
D 34 13C8 PFOA



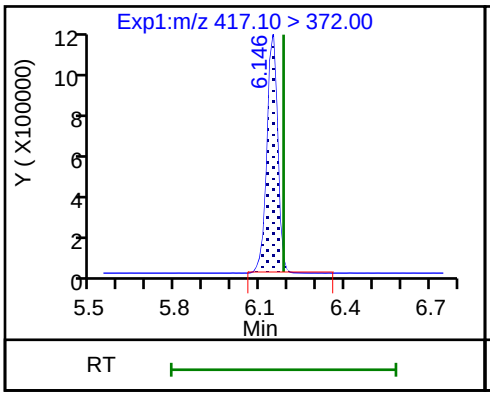
36 PFOA (ND)



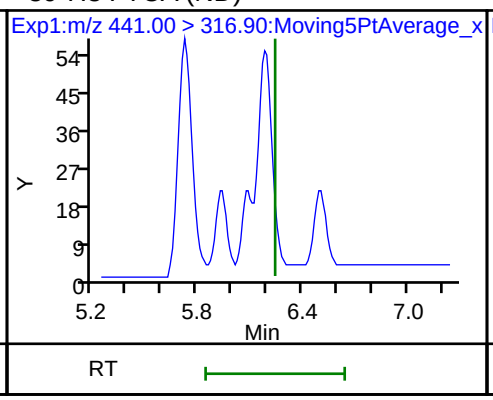
36 PFOA (ND)



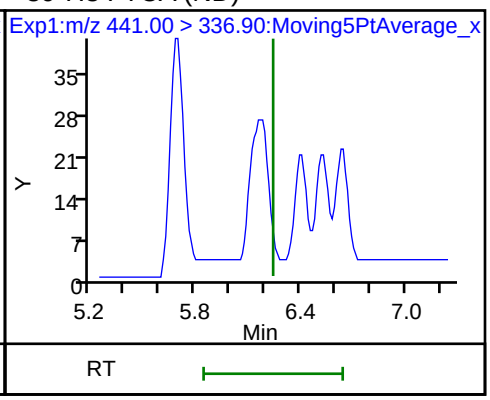
* 35 13C4 PFOA



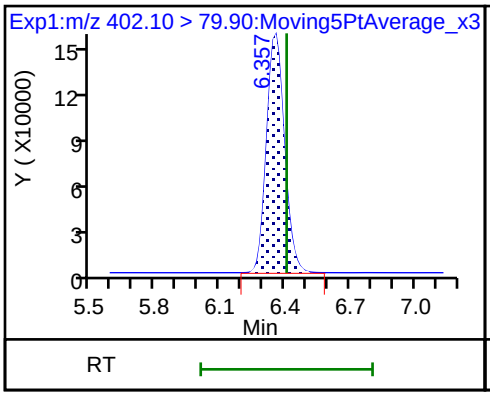
39 7:3 FTCA (ND)



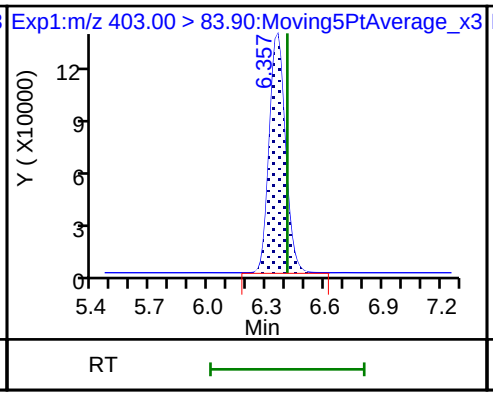
39 7:3 FTCA (ND)



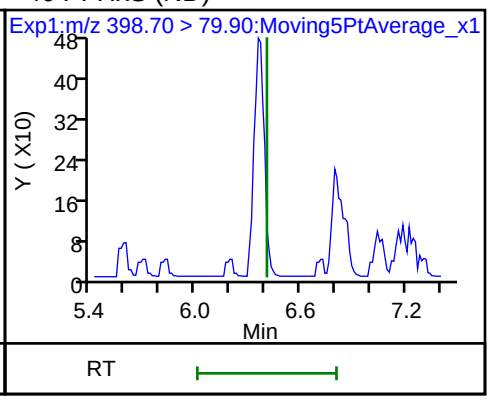
D 38 13C3 PFHxS



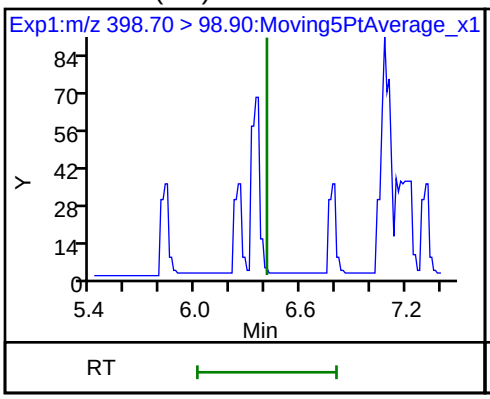
* 37 18O2 PFHxS



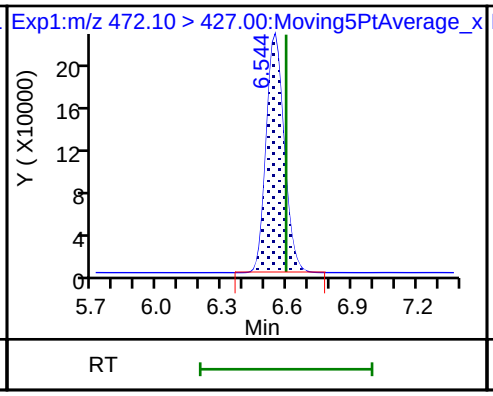
40 PFHxS (ND)



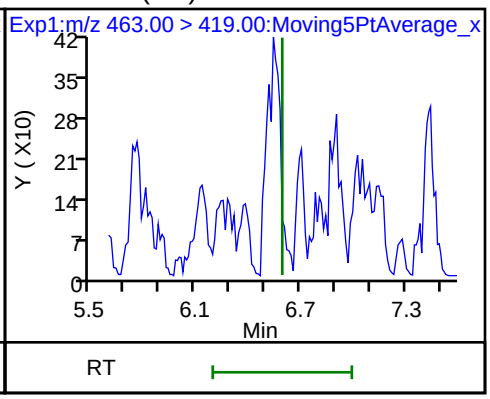
40 PFHxS (ND)



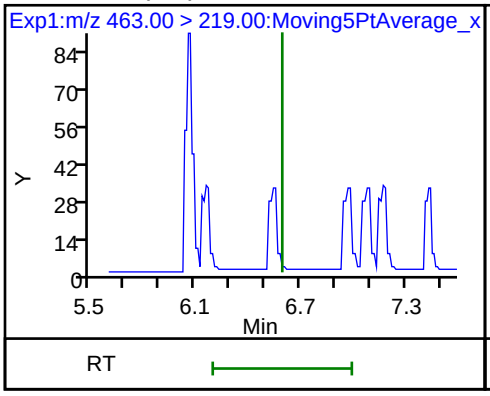
D 41 13C9 PFNA



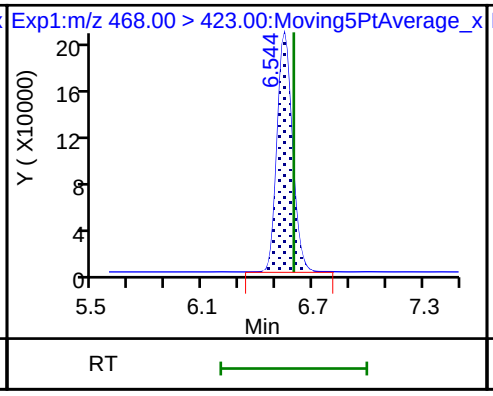
43 PFNA (ND)



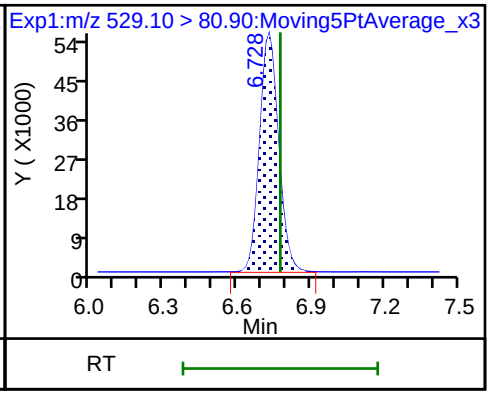
43 PFNA (ND)



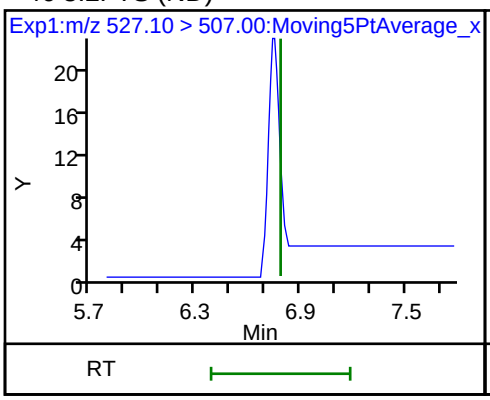
* 42 13C5 PFNA



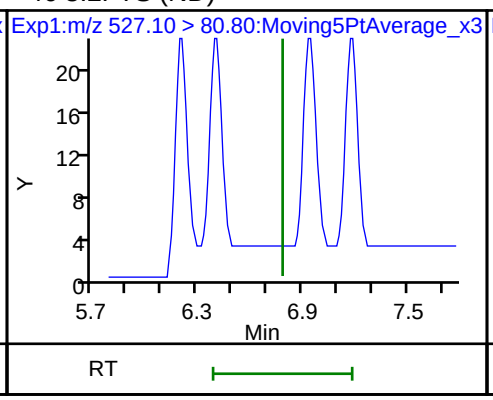
D 45 13C2-8:2FTS



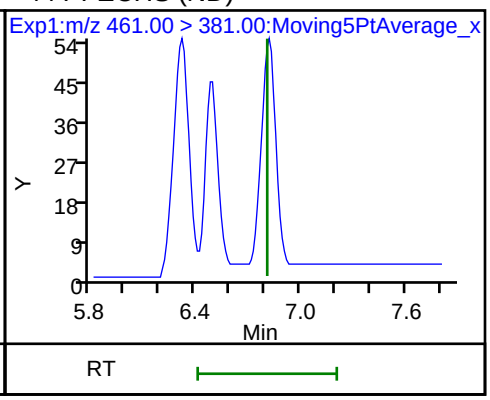
46 8:2FTS (ND)



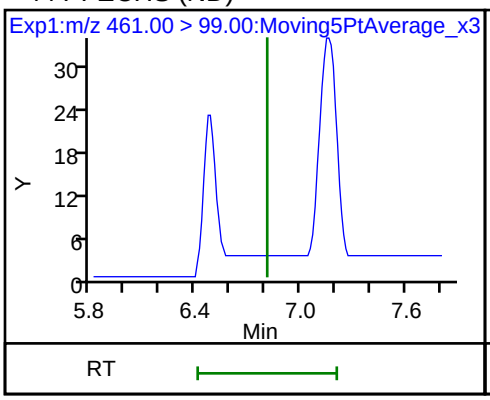
46 8:2FTS (ND)



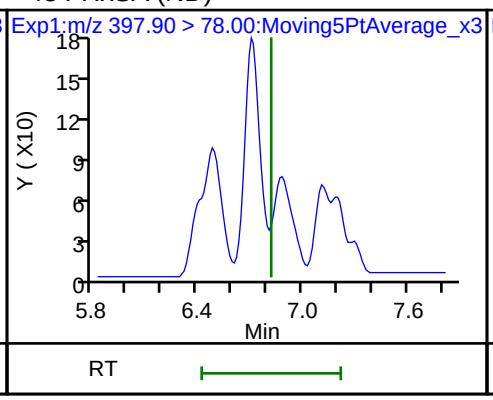
44 PFECHS (ND)



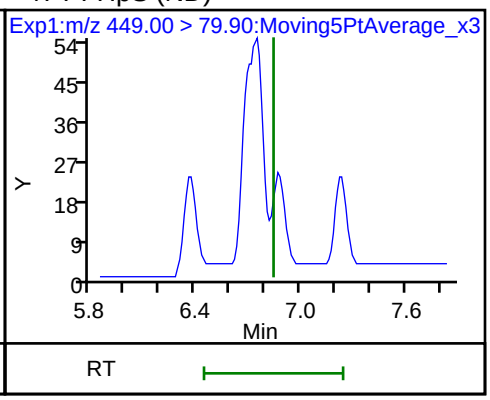
44 PFECHS (ND)



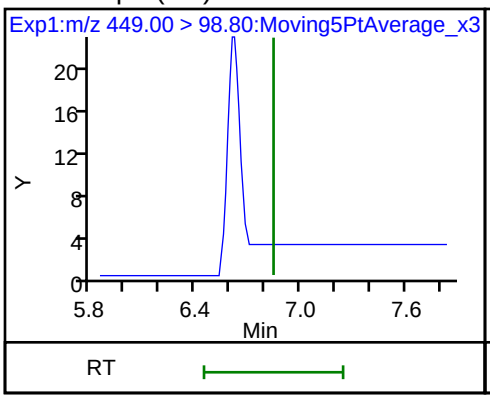
48 FHxSA (ND)



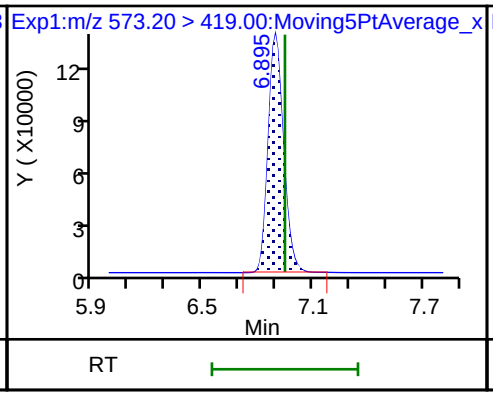
47 PFHpS (ND)



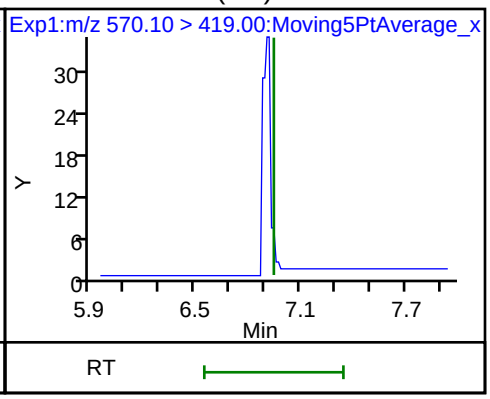
47 PFHpS (ND)



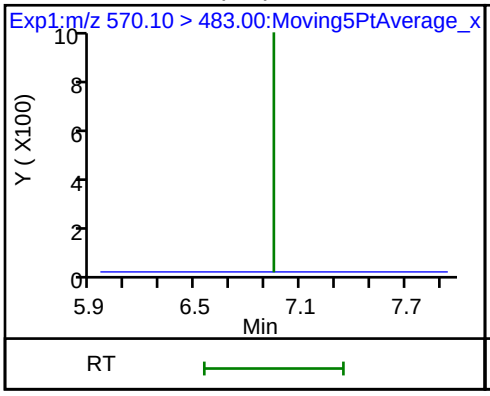
D 49 d3-NMeFOSAA



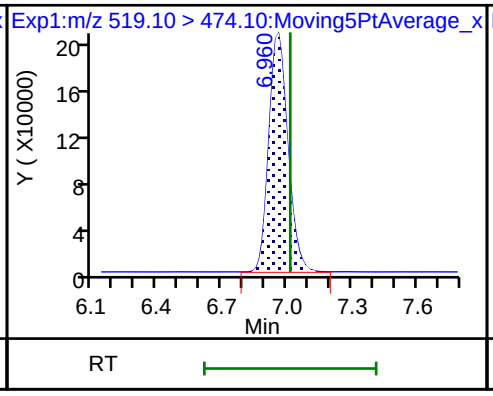
50 NMeFOSAA (ND)



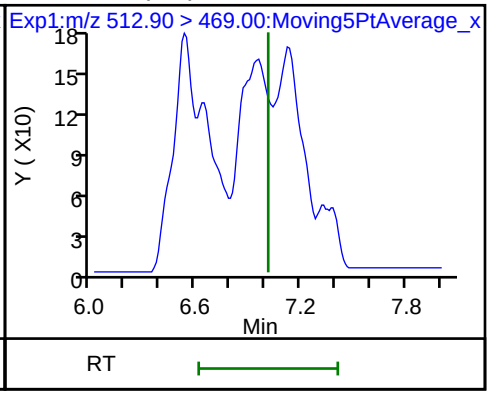
50 NMeFOSAA (ND)



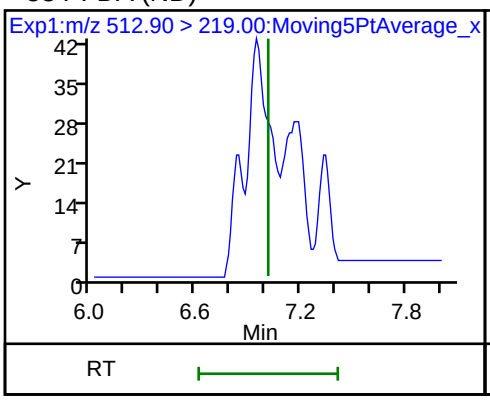
D 51 13C6 PFDA



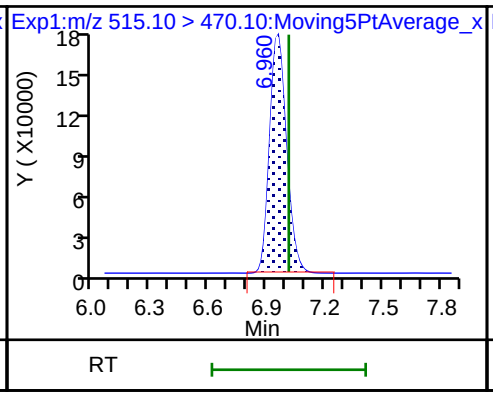
53 PFDA (ND)



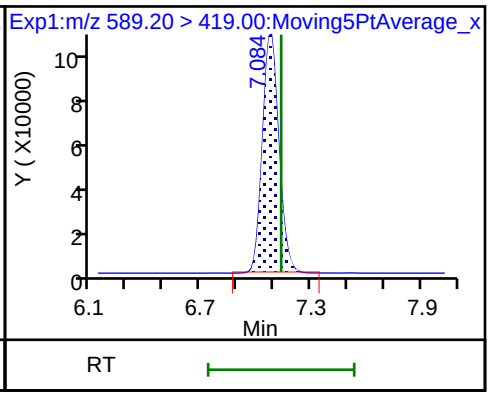
53 PFDA (ND)



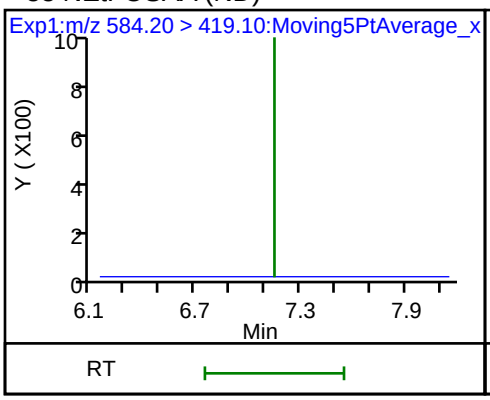
* 52 13C2 PFDA



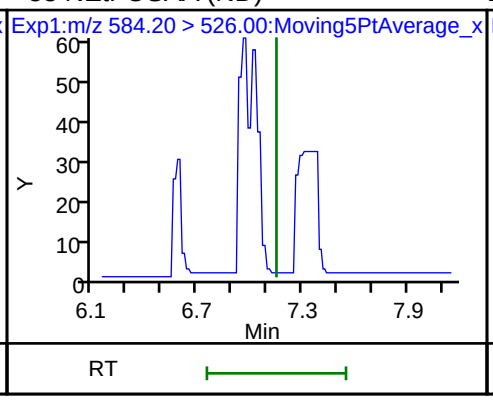
D 54 d5-NEtFOSAA



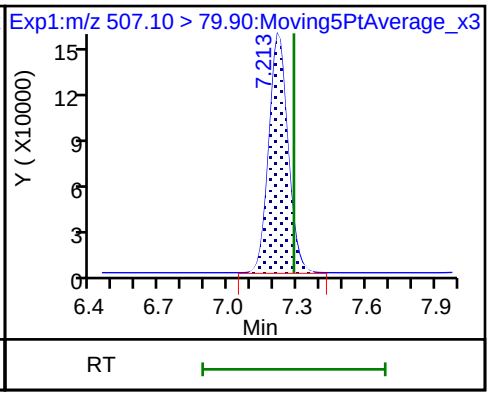
55 NEtFOSAA (ND)



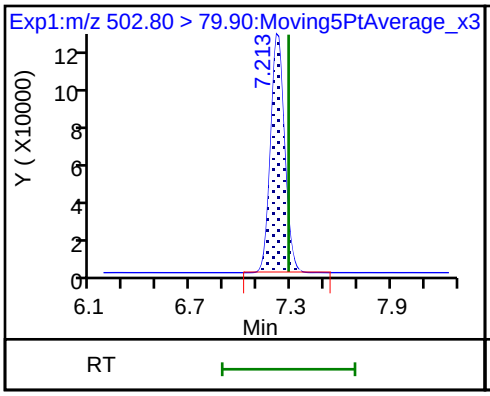
55 NEtFOSAA (ND)



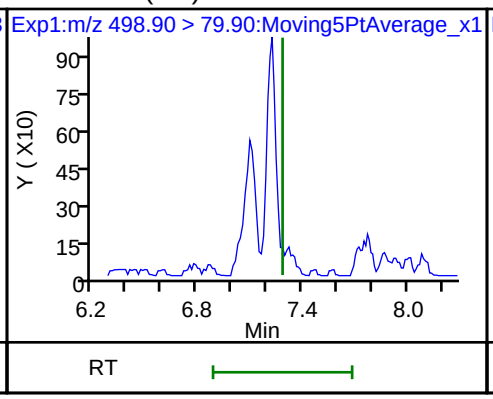
D 56 13C8 PFOS



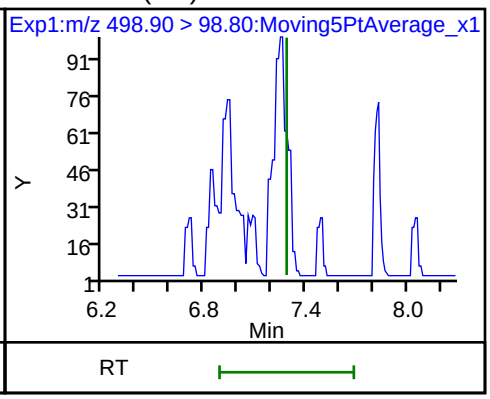
* 57 13C4 PFOS



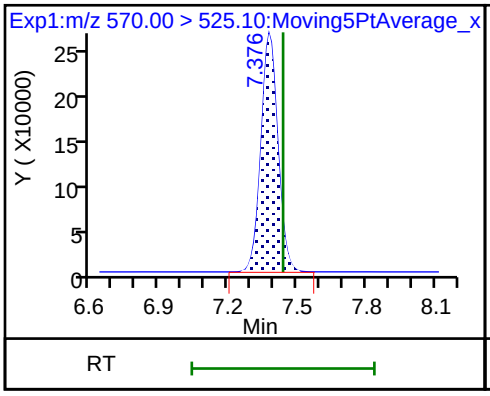
58 PFOS (ND)



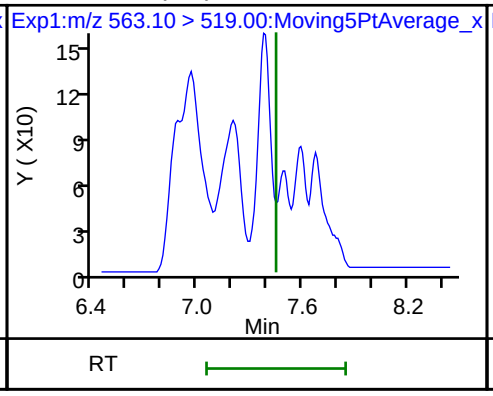
58 PFOS (ND)



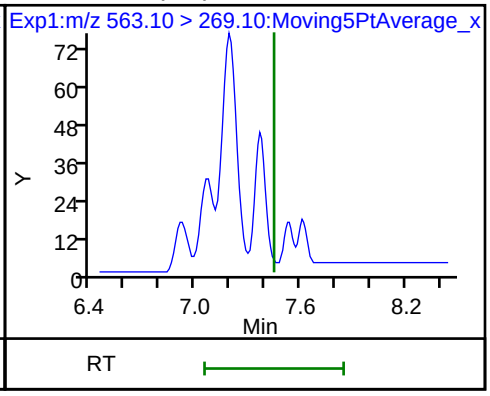
D 59 13C7 PFUnA



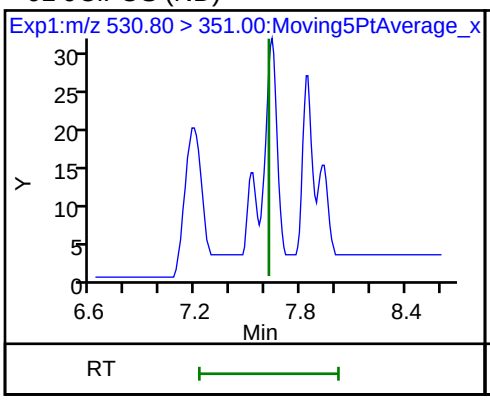
60 PFUnA (ND)



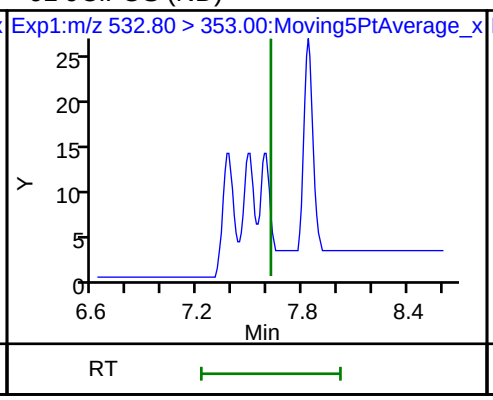
60 PFUnA (ND)



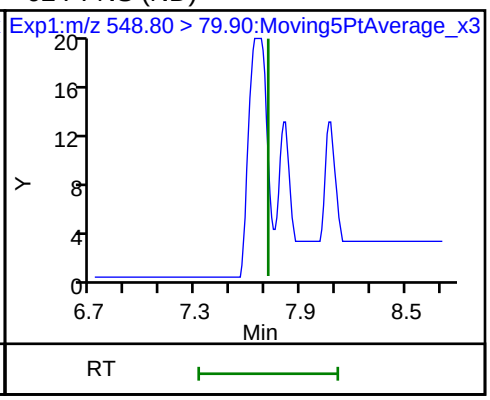
61 9ClFOS (ND)



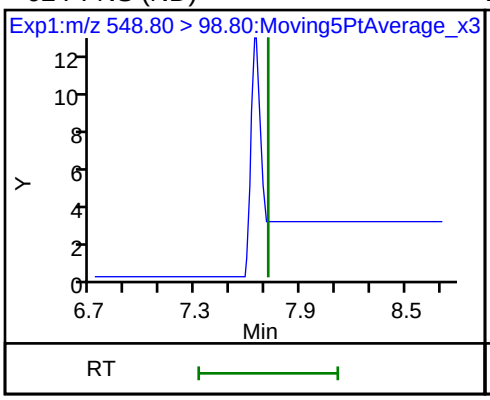
61 9ClFOS (ND)



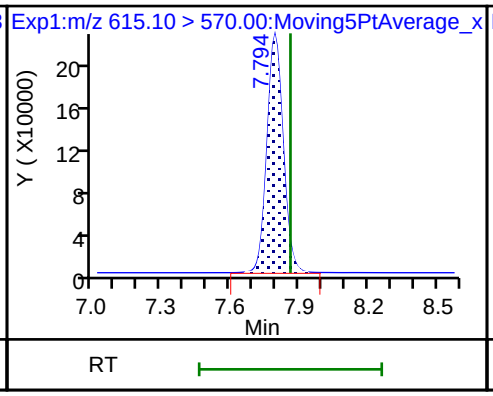
62 PFNS (ND)



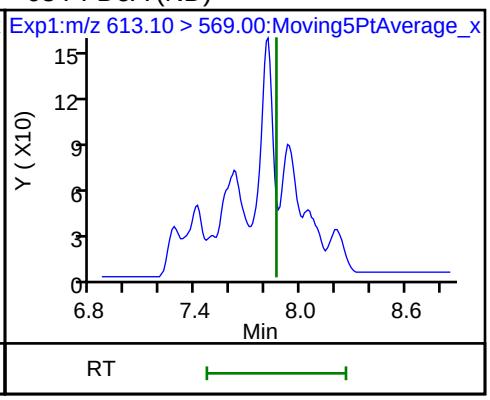
62 PFNS (ND)



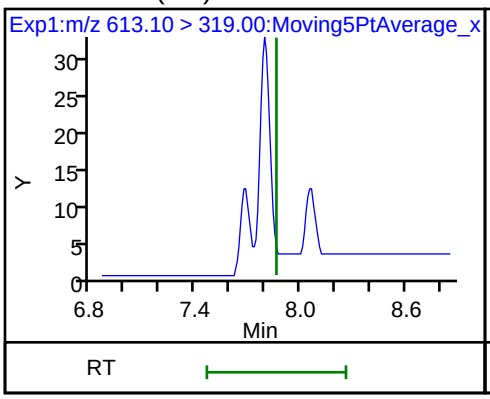
D 82 PFDoA



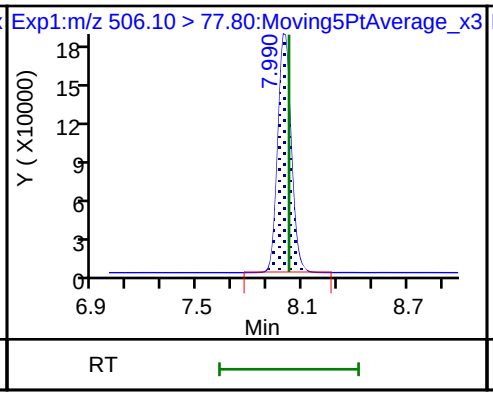
63 PFDoA (ND)



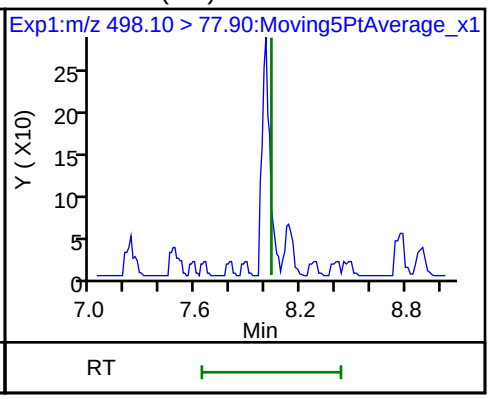
63 PFDoA (ND)



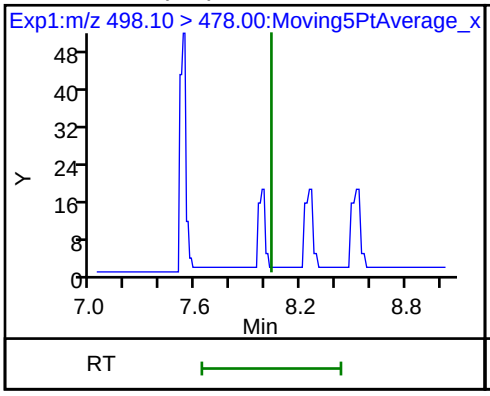
D 64 13C8 FOSA



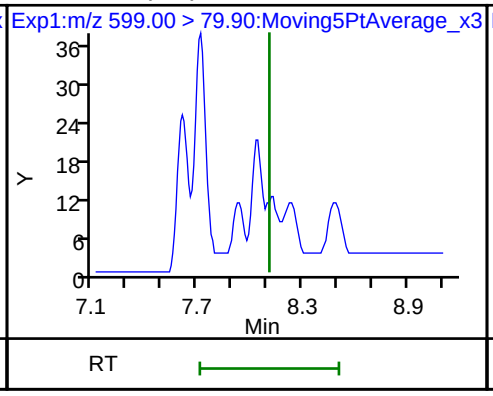
65 PFOSA (ND)



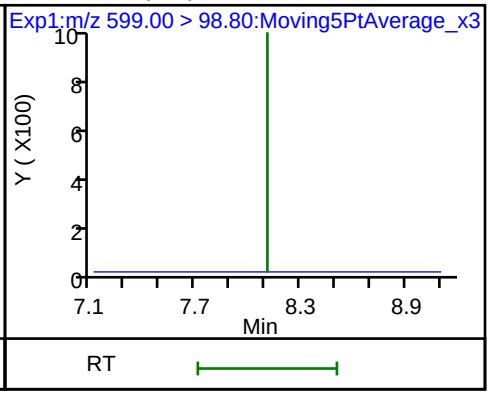
65 PFOSA (ND)



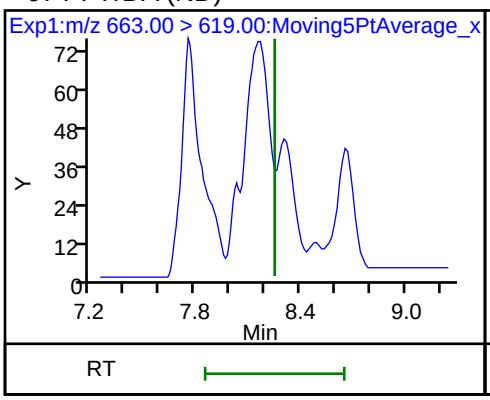
66 PFDS (ND)



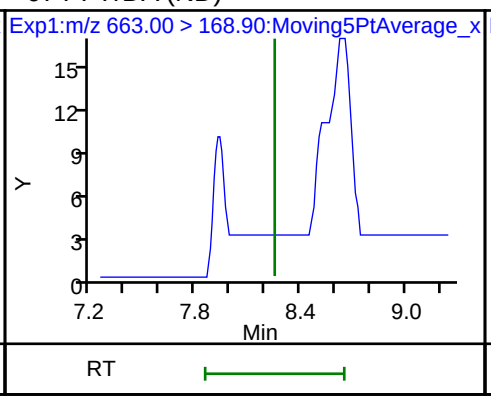
66 PFDS (ND)



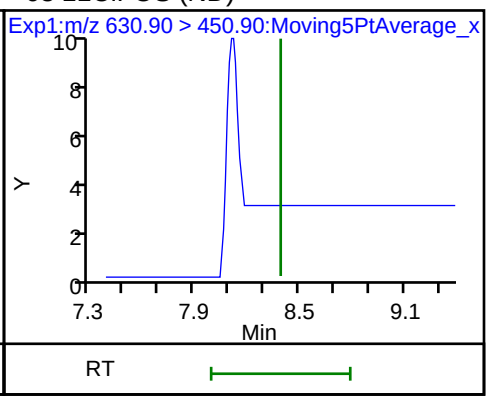
67 PFTrDA (ND)



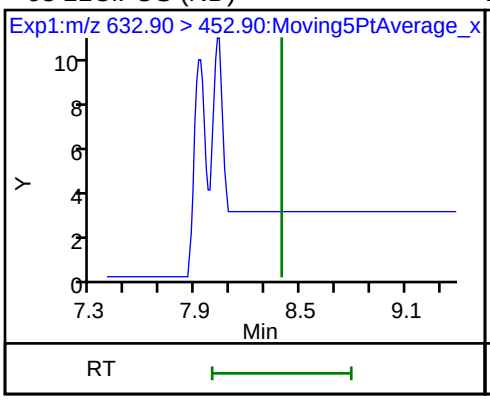
67 PFTrDA (ND)



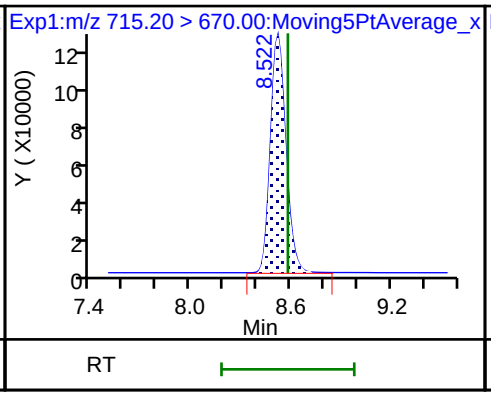
68 11ClFOS (ND)



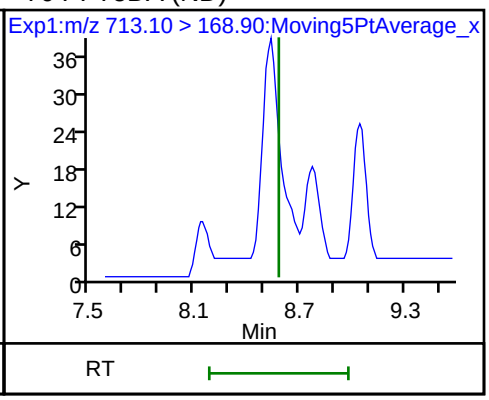
68 11ClFOS (ND)



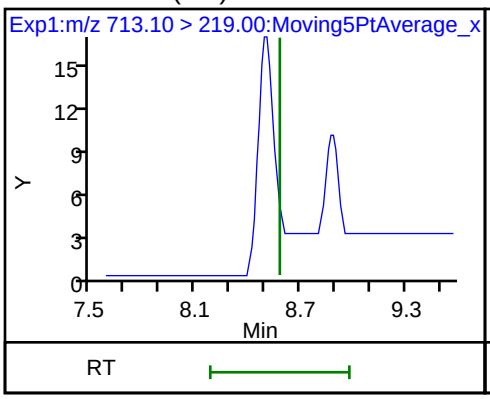
D 69 13C2 PFTeDA



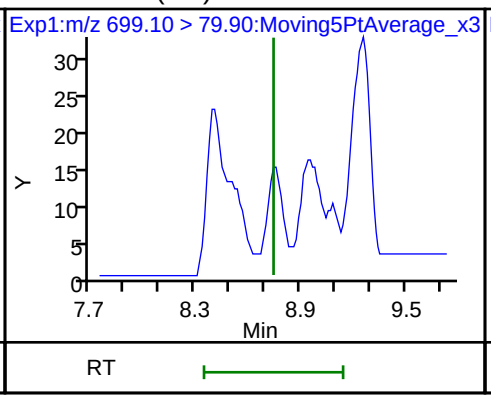
70 PFTeDA (ND)



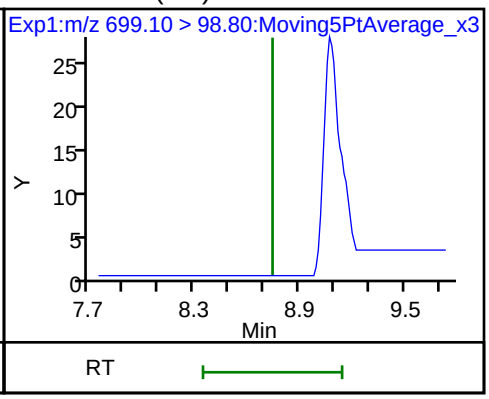
70 PFTeDA (ND)



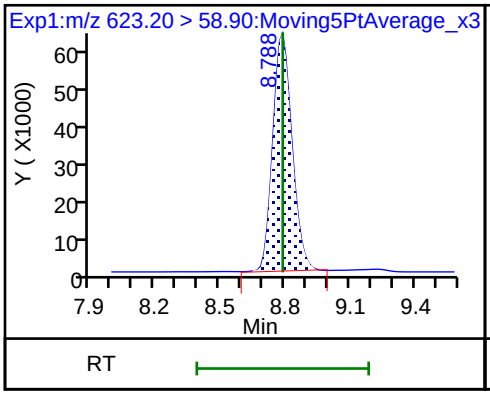
73 PFDoS (ND)



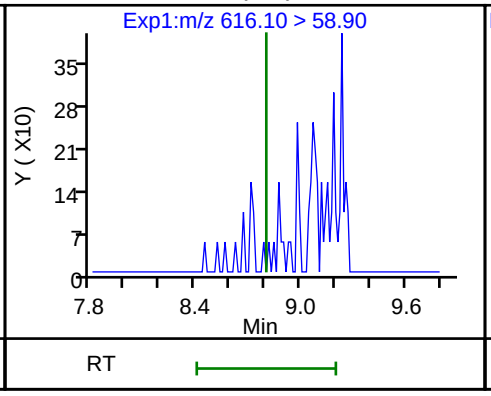
73 PFDoS (ND)



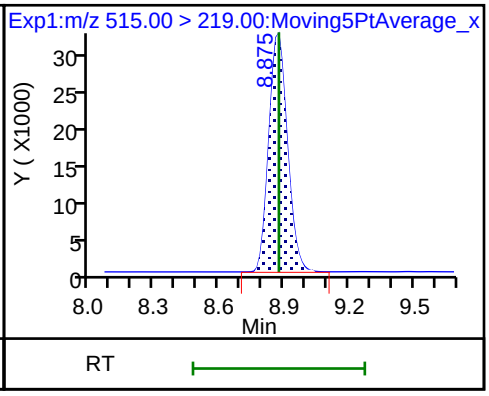
D 71 d7-N-Me-FOSE



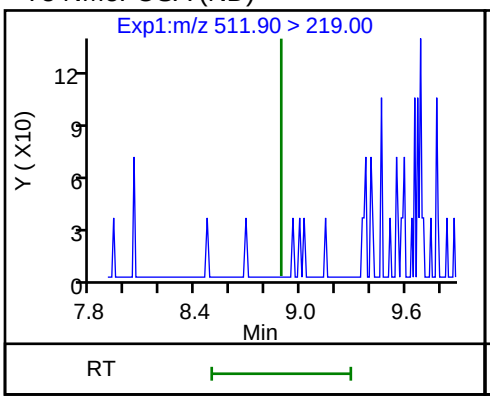
72 N-MeFOSE-M (ND)



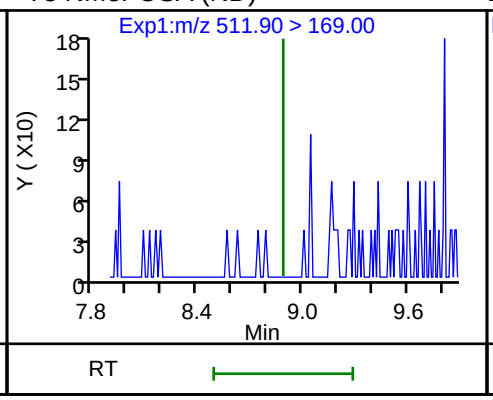
D 74 d3-NMePFOSA



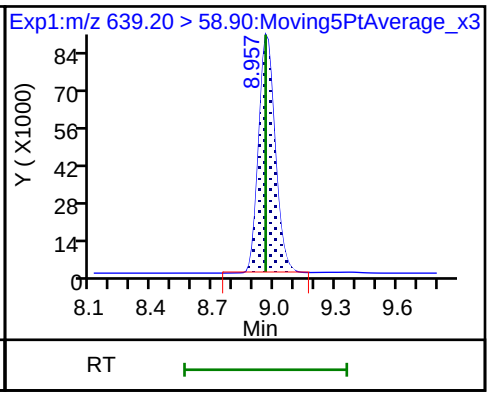
75 NMeFOSA (ND)



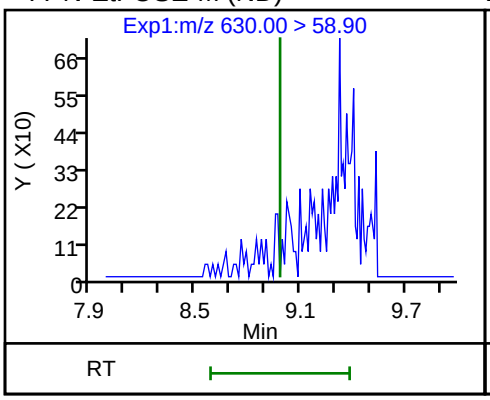
75 NMeFOSA (ND)



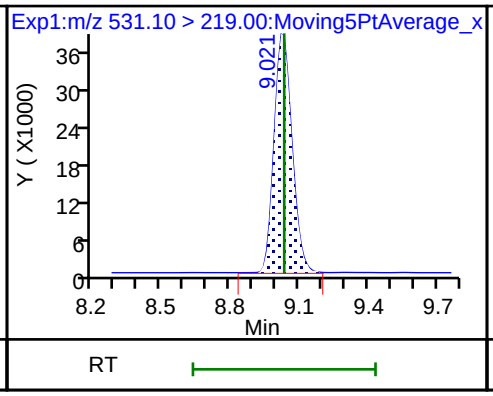
D 76 d9-N-EtFOSE



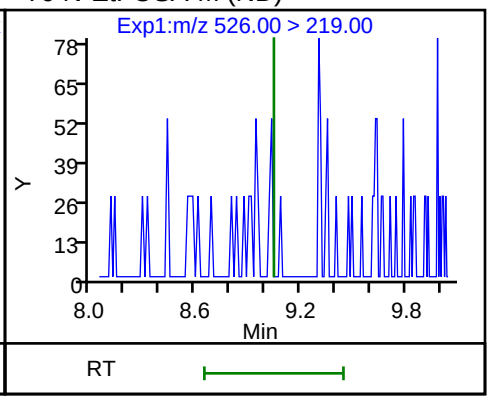
77 N-EtFOSE-M (ND)



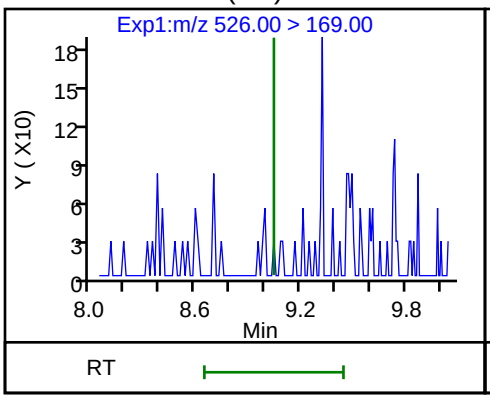
D 78 d5-NEtPFOSA



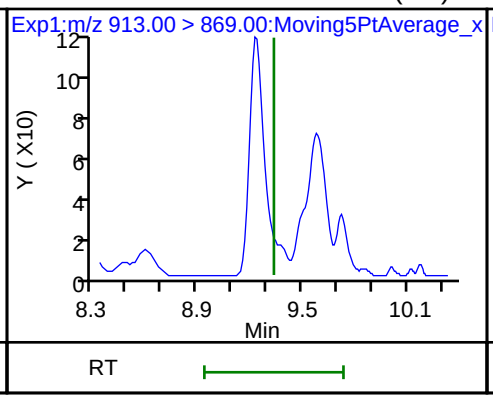
79 N-EtFOSA-M (ND)



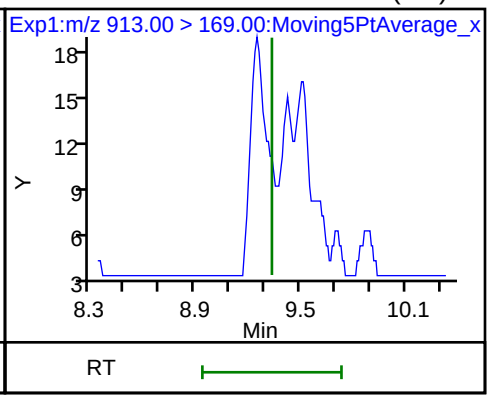
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-606716/2-A

Matrix: Water
Lab File ID: 25FEB17W-07.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:20

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	83.9		4.0	1.1
2706-90-3	Perfluoropentanoic acid	44.7		2.0	0.60
307-24-4	Perfluorohexanoic acid	44.8		2.0	0.50
375-85-9	Perfluoroheptanoic acid	44.8		2.0	0.80
335-67-1	Perfluorooctanoic acid	46.1		2.0	0.90
375-95-1	Perfluorononanoic acid	42.0		2.0	0.50
335-76-2	Perfluorodecanoic acid	43.1		2.0	0.50
2058-94-8	Perfluoroundecanoic acid	38.5		2.0	0.50
307-55-1	Perfluorododecanoic acid	42.2		2.0	0.50
72629-94-8	Perfluorotridecanoic acid	38.1		2.0	0.50
376-06-7	Perfluorotetradecanoic acid	44.0		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid	40.0		2.0	0.50
2706-91-4	Perfluoropentanesulfonic acid	40.8		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid	43.0		2.0	0.80
375-92-8	Perfluoroheptanesulfonic acid	38.7		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid	36.0		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid	39.6		2.0	0.50
335-77-3	Perfluorodecanesulfonic acid	40.2		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	38.8		2.0	0.60
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	82.5		4.0	1.0
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	74.0		4.0	1.0
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	82.6		4.0	1.0
754-91-6	Perfluorooctanesulfonamide	42.9		2.0	0.50
31506-32-8	NMeFOSA	46.0		2.0	0.50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	44.3		2.0	0.50
2355-31-9	NMeFOSAA	37.0		2.0	0.50
2991-50-6	NEtFOSAA	39.9		2.0	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-606716/2-A

Matrix: Water
Lab File ID: 25FEB17W-07.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:20

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	212		10	2.5
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	203		10	2.5
13252-13-6	HFPO-DA	34.4		2.0	0.75
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	34.0		2.0	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid	41.4		2.0	0.50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	43.4		2.0	0.50
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	42.8		2.0	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	42.8		2.0	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	41.9		2.0	0.50
113507-82-7	PFEESA	35.7		2.0	0.50
356-02-5	3:3 FTCA	83.1		4.0	1.0
914637-49-3	5:3 FTCA	180		10	2.8
812-70-4	7:3 FTCA	143		10	2.5

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-606716/2-A

Matrix: Water
Lab File ID: 25FEB17W-07.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:20

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90.3		5-130
STL01893	13C5 PFPeA	106		40-130
STL02577	13C5 PFHxA	107		40-130
STL01892	13C4 PFHpA	115		40-130
STL01052	13C8 PFOA	83.1		40-130
STL02578	13C9 PFNA	79.5		40-130
STL02579	13C6 PFDA	84.5		40-130
STL02580	13C7 PFUnA	88.6		30-130
STL02116	13C2 PFTeDA	85.2		10-130
STL02337	13C3 PFBS	91.6		40-135
STL02581	13C3 PFHxS	86.4		40-130
STL01054	13C8 PFOS	99.3		40-130
STL01056	13C8 FOSA	80.3		40-130
STL02118	d3-NMeFOSAA	92.9		40-170
STL02117	d5-NEtFOSAA	95.2		25-135
STL02395	M2-4:2 FTS	80.8		40-200
STL02279	M2-6:2 FTS	79.4		40-200
STL02280	M2-8:2 FTS	81.2		40-300
STL02255	13C3 HFPO-DA	109		40-130
STL02277	d7-N-MeFOSE-M	85.7		10-130
STL02278	d9-N-EtFOSE-M	84.5		10-130
STL02704	d5-NEtPFOSA	55.7		10-130
STL02705	d3-NMePFOSA	55.0		10-130
STL00998	13C2 PFDoA	84.1		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-07.d
Lims ID: LCS 410-606716/2-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Feb-2025 17:20:35 ALS Bottle#: 12 Worklist Smp#: 80
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-606716/2-A
Misc. Info.: Plate: 2 Rack: 1 410-0138392-080
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:39 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 18:20:49
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	1.958	2.102	-0.144	0.996	1765593	5.14		103	4900	
D 1 13C3PFPrA										
166.00 > 121.00	1.966	2.118	-0.152	0.470	708816	1.56		78.1	14818	
5 PFBA										
212.80 > 168.90	4.183	4.216	-0.033	1.000	1266091	2.10		105	15319	
D 3 13C4-PFBA										
216.80 > 171.90	4.183	4.224	-0.041	1.000	1369582	1.81		90.3	71010	
* 4 13C3PFBA										
216.00 > 172.00	4.183	4.224	-0.041		1420153	2.00			22373	
6 PFMPA										
229.00 > 84.90	4.507	4.540	-0.033	0.933	649243	1.04		104	31894	
7 3:3 FTCA										
241.00 > 177.00	4.531	4.551	-0.020	0.938	69974	2.08	Target=1.15	104	4598	
241.00 > 117.00	4.519	4.551	-0.032	0.935	59404		1.18(0.58-1.73)		3902	
D 8 13C5 PFPeA										
268.30 > 223.00	4.832	4.866	-0.034	0.915	723374	2.12		106	47799	
9 PFPA										
263.00 > 219.00	4.832	4.866	-0.034	1.000	607255	1.12		112	19777	
10 PFMBA										
279.00 > 85.10	4.986	5.020	-0.034	1.032	622482	1.09		109	40718	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.102	5.139	-0.037	0.802	325663	3.79		80.8	20025	
12 4:2FTS										
327.10 > 307.00	5.102	5.139	-0.037	1.000	212958	2.06	Target=1.45	110	13102	
327.10 > 80.90	5.102	5.139	-0.037	1.000	144482		1.47(0.73-2.18)		5345	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.244	5.283	-0.039	0.993	460164	1.07	Target=1.37	107	27039	
295.00 > 84.90	5.244	5.283	-0.039	0.993	326150		1.41(0.68-2.05)		19011	
D 15 13C5 PFHxA										
318.00 > 273.00	5.283	5.318	-0.035	1.000	1059837	2.14		107	62642	
* 16 13C2 PFHxA										
315.10 > 270.00	5.283	5.318	-0.035		2795271	5.00			164697	
17 PFHxA										
313.00 > 269.00	5.295	5.318	-0.023	1.002	552965	1.12	Target=10.68	112	24228	
313.00 > 118.90	5.283	5.318	-0.035	1.000	52260		10.58(5.34-16.02)		3046	
20 5:3 FTCA										
341.00 > 237.10	5.371	5.400	-0.029	1.017	404985	4.51	Target=0.98	90.2	22603	
341.00 > 217.00	5.371	5.400	-0.029	1.017	434717		0.93(0.49-1.47)		24181	
25 FBSA										
297.90 > 78.00	5.386	5.442	-0.056	0.995	571147	1.01		101	30324	
19 PFBS										
298.70 > 79.90	5.414	5.456	-0.042	1.000	537860	1.00	Target=2.96	113	29156	
298.70 > 98.80	5.414	5.456	-0.042	1.000	173672		3.10(1.48-4.44)		9444	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.456	-0.042	0.852	1019886	1.71		91.6	55374	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.470	5.514	-0.044	1.035	1331731	2.18		109	72068	
22 HFPO-DA										
284.90 > 168.90	5.470	5.514	-0.044	1.000	572231	0.8607	Target=2.37	115	23058	
284.90 > 184.90	5.470	5.514	-0.044	1.000	223009		2.57(1.19-3.56)		9114	
24 PFEESA										
314.80 > 134.90	5.653	5.709	-0.056	1.070	1293733	0.8925	Target=11.81	100	70582	
314.80 > 82.90	5.653	5.709	-0.056	1.070	115079		11.24(5.90-17.71)		6297	
28 PFHpA										
363.10 > 319.00	5.723	5.760	-0.037	1.000	614644	1.12	Target=2.56	112	26458	
363.10 > 169.00	5.723	5.760	-0.037	1.000	225451		2.73(1.28-3.85)		13070	
D 26 13C4 PFHpA										
367.10 > 322.00	5.723	5.760	-0.037	1.083	1150339	2.29		115	66077	
30 ADONA										
376.90 > 250.90	5.882	5.916	-0.034	1.075	1077791	0.8489	Target=1.81	89.7	25408	
376.90 > 84.80	5.882	5.916	-0.034	1.075	646046		1.67(0.90-2.71)		40530	
29 PFPeS										
349.10 > 79.90	5.904	5.960	-0.056	0.929	486001	1.02	Target=3.25	109	23474	
349.10 > 98.90	5.904	5.960	-0.056	0.929	147940		3.29(1.63-4.88)		9461	
32 6:2FTS										
427.10 > 407.00	5.928	5.960	-0.032	1.000	211975	1.85	Target=1.57	97.6	13801	
427.10 > 80.90	5.928	5.960	-0.032	1.000	144040		1.47(0.78-2.35)		9319	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.928	5.971	-0.043	0.932	340178	3.78		79.4	22344	
33 BTS										
280.00 > 147.00	6.056	6.110	-0.054	0.952	1199125	1.06		109	75279	
D 34 13C8 PFOA										
421.10 > 376.00	6.134	6.183	-0.049	0.998	1452073	1.66		83.1	66817	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.134	6.183	-0.049	1.000	672014	1.15	Target=2.35	115	25694	
413.00 > 169.00	6.134	6.183	-0.049	1.000	266700		2.52(1.18-3.53)		45535	
* 35 13C4 PFOA										
417.10 > 372.00	6.146	6.183	-0.037		4096743	5.00			732119	
39 7:3 FTCA										
441.00 > 316.90	6.207	6.243	-0.036	1.175	375042	3.58	Target=0.90	71.6	22352	
441.00 > 336.90	6.207	6.243	-0.036	1.175	413639		0.91(0.45-1.35)		24683	
D 38 13C3 PFHxS										
402.10 > 79.90	6.358	6.407	-0.049	1.000	915528	1.64		86.4	52834	
* 37 18O2 PFHxS										
403.00 > 83.90	6.358	6.407	-0.049		1031151	1.89			59694	
40 PFHxS										
398.70 > 79.90	6.358	6.407	-0.049	1.000	428448	1.07	Target=3.23	118	87152	
398.70 > 98.90	6.358	6.407	-0.049	1.000	118086		3.63(1.62-4.85)		24493	
D 41 13C9 PFNA										
472.10 > 427.00	6.545	6.595	-0.050	1.000	1256101	1.59		79.5	72877	
43 PFNA										
463.00 > 419.00	6.545	6.595	-0.050	1.000	541550	1.05	Target=2.70	105	16867	
463.00 > 219.00	6.545	6.595	-0.050	1.000	201074		2.69(1.35-4.05)		28151	
* 42 13C5 PFNA										
468.00 > 423.00	6.545	6.595	-0.050		1543909	2.00			89899	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.729	6.774	-0.045	1.058	302397	3.90		81.2	18545	
46 8:2FTS										
527.10 > 507.00	6.729	6.786	-0.057	1.000	181210	2.07	Target=1.51	108	11228	
527.10 > 80.80	6.729	6.786	-0.057	1.000	112795		1.61(0.75-2.26)		7007	
44 PFECHS										
461.00 > 381.00	6.752	6.809	-0.057	1.062	173031	1.10	Target=0.29	120	10383	
461.00 > 99.00	6.752	6.809	-0.057	1.062	565847		0.31(0.15-0.44)		34363	
48 FHxSA										
397.90 > 78.00	6.786	6.820	-0.034	1.067	643419	1.10		110	27875	
47 PFHpS										
449.00 > 79.90	6.786	6.845	-0.059	0.941	513368	0.9685	Target=3.66	102	31164	
449.00 > 98.80	6.786	6.845	-0.059	0.941	144791		3.55(1.83-5.49)		8858	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.895	6.947	-0.052	0.954	793079	4.65		92.9	45007	
50 NMeFOSAA										
570.10 > 419.00	6.908	6.947	-0.039	1.002	147139	0.9238	Target=1.83	92.4	29699	
570.10 > 483.00	6.908	6.947	-0.039	1.002	80476		1.83(0.91-2.74)		15058	
D 51 13C6 PFDA										
519.10 > 474.10	6.961	7.014	-0.053	1.000	1384525	1.69		84.5	57740	
53 PFDA										
512.90 > 469.00	6.961	7.014	-0.053	1.000	643515	1.08	Target=5.26	108	21230	
512.90 > 219.00	6.961	7.014	-0.053	1.000	111715		5.76(2.63-7.89)		6173	
* 52 13C2 PFDA										
515.10 > 470.10	6.961	7.014	-0.053		1553849	2.00			64613	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.085	7.137	-0.052	0.981	666593	4.76		95.2	36151	
55 NEtFOSAA										
584.20 > 419.10	7.098	7.150	-0.052	1.002	118754	1.00	Target=1.37	99.7	23933	
584.20 > 526.00	7.098	7.150	-0.052	1.002	81437		1.46(0.69-2.06)		14959	
D 56 13C8 PFOS										
507.10 > 79.90	7.214	7.285	-0.071	0.998	952648	1.90		99.3	23702	
* 57 13C4 PFOS										
502.80 > 79.90	7.226	7.285	-0.059		936786	1.91			54184	
58 PFOS										
498.90 > 79.90	7.226	7.285	-0.059	1.002	570987	0.9009	Target=4.45	96.9	54272	
498.90 > 98.80	7.226	7.285	-0.059	1.002	141326		4.04(2.23-6.68)		31361	
D 59 13C7 PFUnA										
570.00 > 525.10	7.387	7.438	-0.051	1.061	1355305	1.77		88.6	87661	
60 PFUnA										
563.10 > 519.00	7.387	7.448	-0.061	1.000	524110	0.9615	Target=6.24	96.2	25551	
563.10 > 269.10	7.387	7.448	-0.061	1.000	89430		5.86(3.12-9.36)		5731	
61 9ClFOS										
530.80 > 351.00	7.545	7.618	-0.073	1.379	868891	1.07	Target=3.02	114	60557	
532.80 > 353.00	7.545	7.618	-0.073	1.379	281798		3.08(1.51-4.54)		19826	
62 PFNS										
548.80 > 79.90	7.646	7.714	-0.068	1.060	429708	0.99	Target=3.66	103	29782	
548.80 > 98.80	7.646	7.714	-0.068	1.060	113770		3.78(1.83-5.49)		7816	
D 82 PFDoA										
615.10 > 570.00	7.794	7.862	-0.068	1.120	1081638	1.68		84.1	73311	
63 PFDoA										
613.10 > 569.00	7.794	7.862	-0.068	1.000	534220	1.05	Target=6.35	105	26955	
613.10 > 319.00	7.794	7.862	-0.068	1.000	81883		6.52(3.17-9.52)		5554	
D 64 13C8 FOSA										
506.10 > 77.80	8.002	8.022	-0.020	1.107	960105	1.61		80.3	60877	
65 PFOSA										
498.10 > 77.90	8.013	8.033	-0.020	1.001	464029	1.07	Target=40.87	107	79409	
498.10 > 478.00	8.002	8.033	-0.031	1.000	12164		38.15(20.44-61.31)		1992	
66 PFDS										
599.00 > 79.90	8.033	8.110	-0.077	1.114	465784	1.01	Target=3.79	104	30155	
599.00 > 98.80	8.033	8.110	-0.077	1.114	120979		3.85(1.90-5.69)		7812	
67 PFTrDA										
663.00 > 619.00	8.184	8.252	-0.068	0.960	506074	0.9531	Target=5.85	95.3	28103	
663.00 > 168.90	8.184	8.252	-0.068	0.960	84948		5.96(2.93-8.78)		4707	
68 11ClFOS										
630.90 > 450.90	8.320	8.392	-0.072	1.521	801706	1.05	Target=3.00	111	42881	
632.90 > 452.90	8.320	8.392	-0.072	1.521	253110		3.17(1.50-4.50)		13495	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.522	8.581	-0.059	1.224	774537	1.70		85.2	39882	
70 PFTeDA										
713.10 > 168.90	8.522	8.581	-0.059	1.000	74672	1.10	Target=1.17	110	3896	
713.10 > 219.00	8.522	8.581	-0.059	1.000	63036		1.18(0.58-1.75)		3275	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.687	8.745	-0.058	1.204	495088	0.9688	Target=4.47	99.9	25834	
699.10 > 98.80	8.687	8.745	-0.058	1.204	109445		4.52(2.23-6.70)		5687	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.789	8.789	0.0	1.216	398183	4.28		85.7	7189	
72 N-MeFOSE-M										
616.10 > 58.90	8.804	8.803	0.001	1.002	778414	5.31		106	4923	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.876	8.876	0.0	1.228	172681	1.10		55.0	7306	
75 NMeFOSA										
511.90 > 219.00	8.890	8.889	0.001	1.002	103303	1.15	Target=0.74	115	661	
511.90 > 169.00	8.890	8.889	0.001	1.002	139510		0.74(0.37-1.12)		33610	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.970	8.957	0.013	1.241	511012	4.23		84.5	15221	
77 N-EtFOSE-M										
630.00 > 58.90	8.983	8.983	0.0	1.001	947066	5.08		102	2225	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.034	9.034	0.0	1.250	196985	1.11		55.7	12096	
79 N-EtFOSA-M										
526.00 > 219.00	9.047	9.047	0.0	1.001	117057	1.11	Target=0.80	111	986	
526.00 > 169.00	9.047	9.047	0.0	1.001	145742		0.80(0.40-1.20)		1006	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.215	9.336	-0.121	1.081	1182658	1.20	Target=14.94	120	39476	
913.00 > 169.00	9.215	9.336	-0.121	1.081	76973		15.36(7.47-22.41)		5174	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 18:30:52 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-07.d

Injection Date: 17-Feb-2025 17:20:35 Instrument ID: 30576

Lims ID: LCS 410-606716/2-A

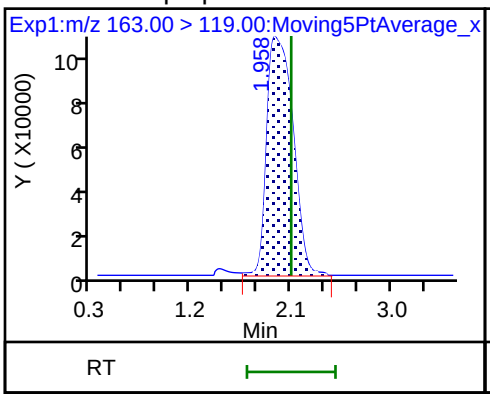
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 12 Worklist Smp#: 80

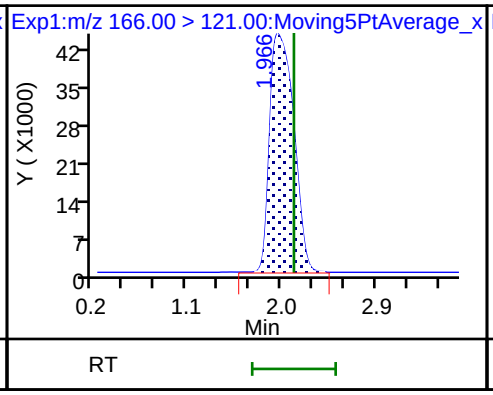
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

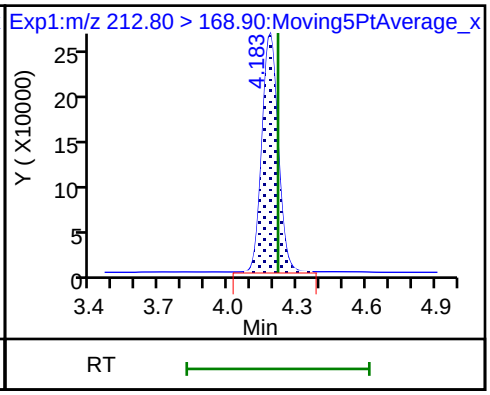
2 Perfluoropropionic acid



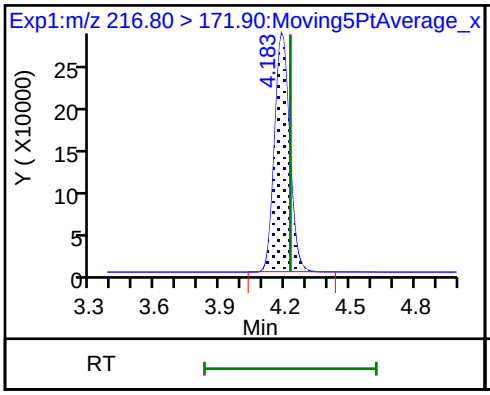
D 1 13C3PFPrA



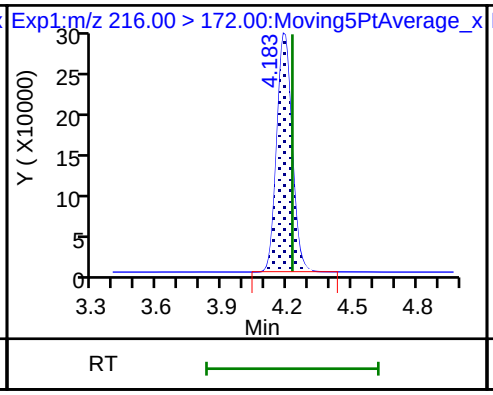
5 PFBA



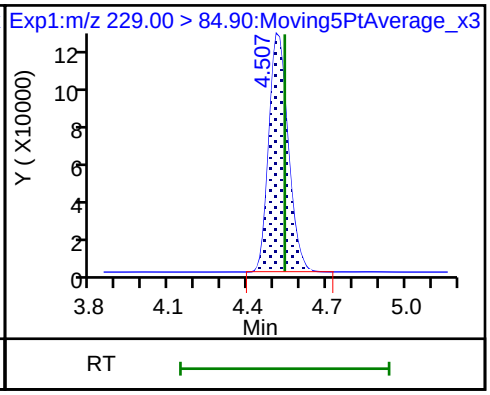
D 3 13C4-PFBA



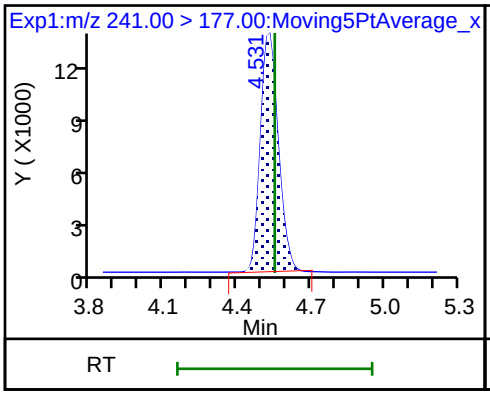
* 4 13C3PFBA



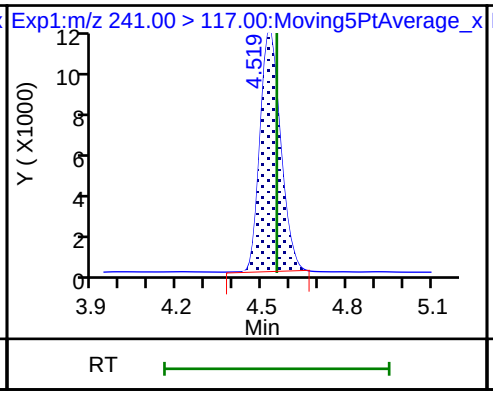
6 PFMPA



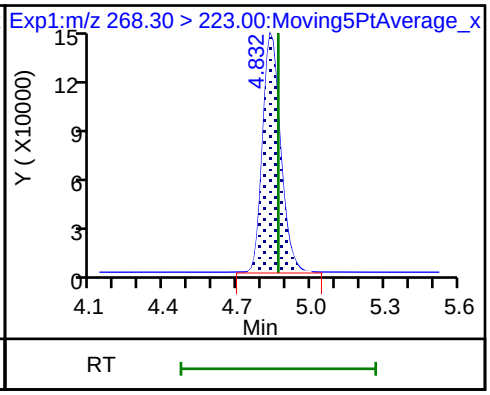
7 3:3 FTCA



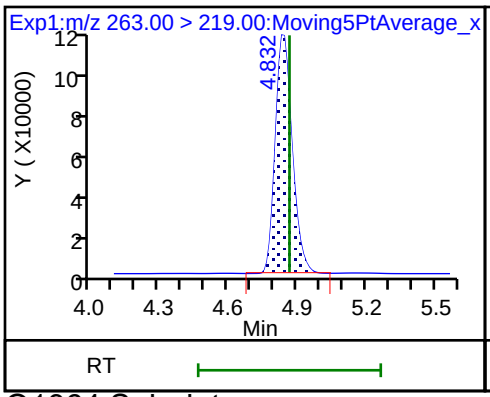
7 3:3 FTCA



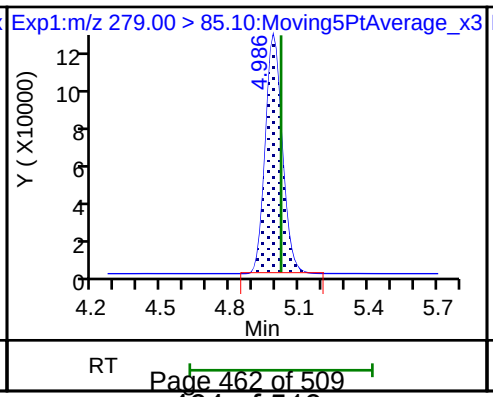
D 8 13C5 PFPeA



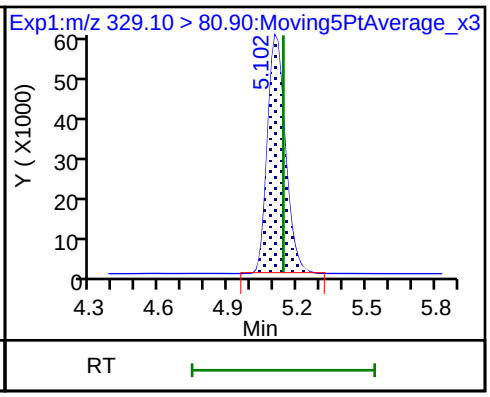
9 PFPA



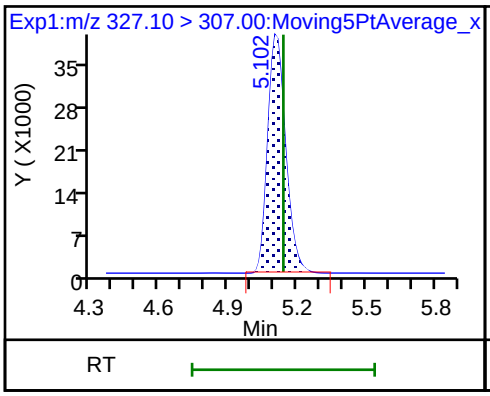
10 PFMBA



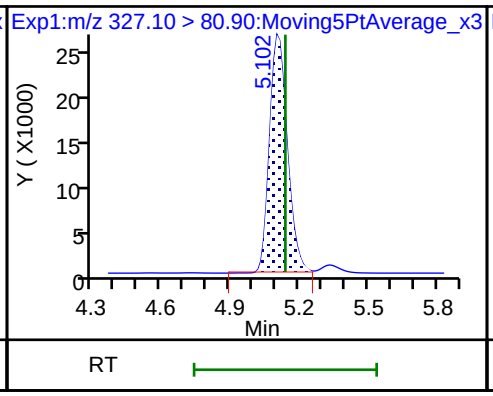
D 11 13C2-4:2FTS



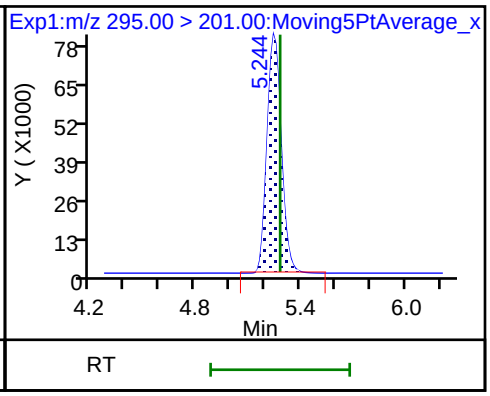
12 4:2FTS



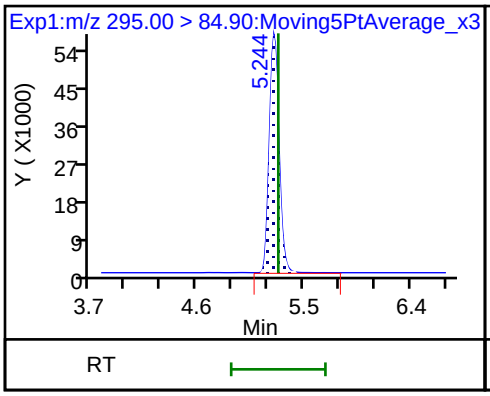
12 4:2FTS



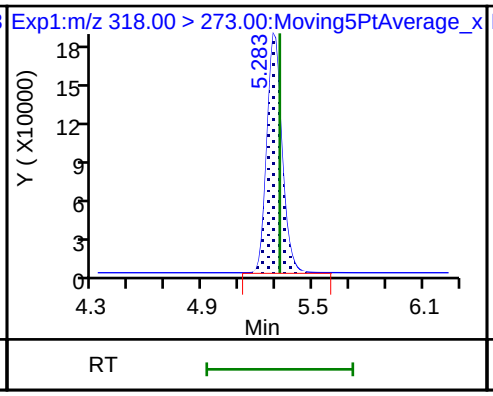
14 NFDHA



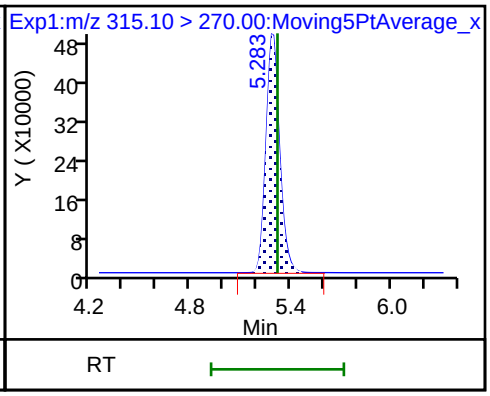
14 NFDHA



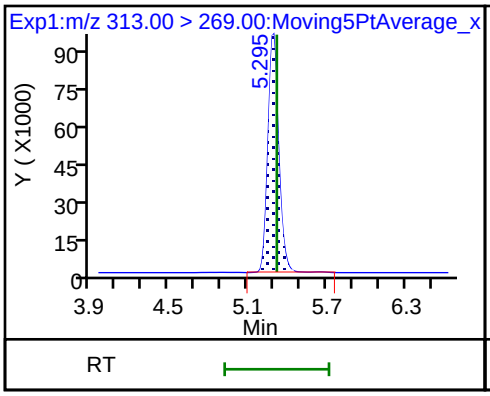
D 15 13C5 PFHxA



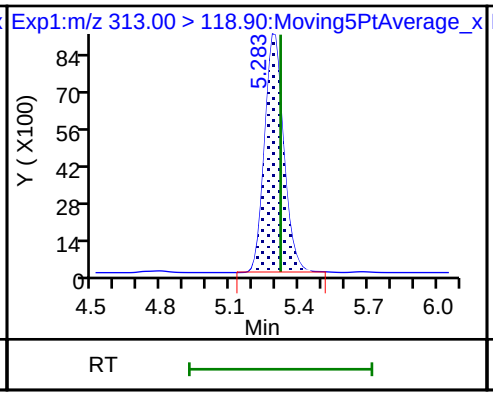
* 16 13C2 PFHxA



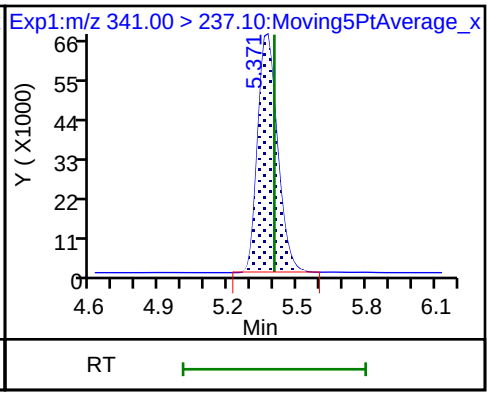
17 PFHxA



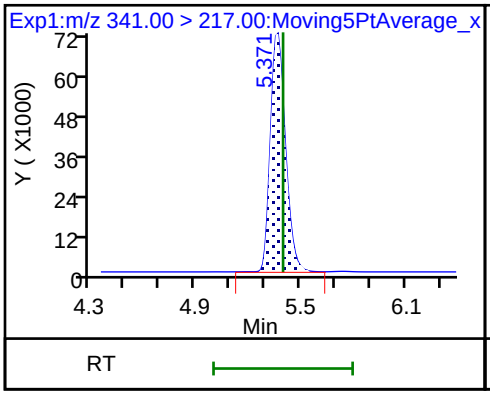
17 PFHxA



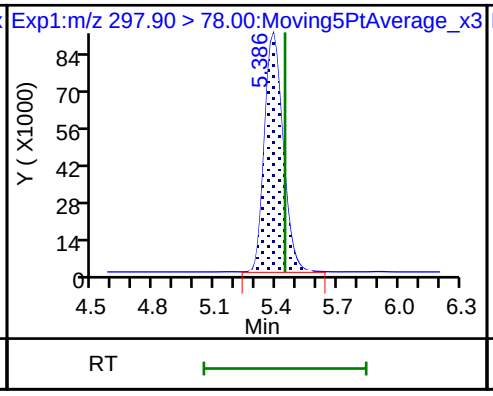
20 5:3 FTCA



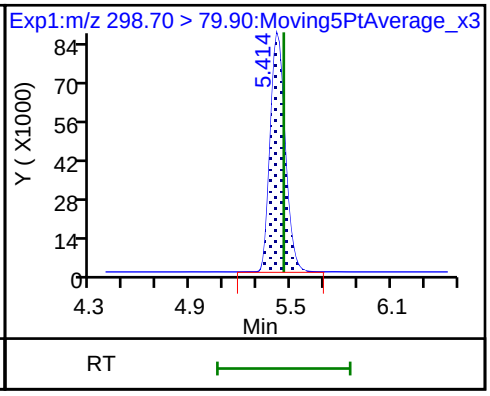
20 5:3 FTCA



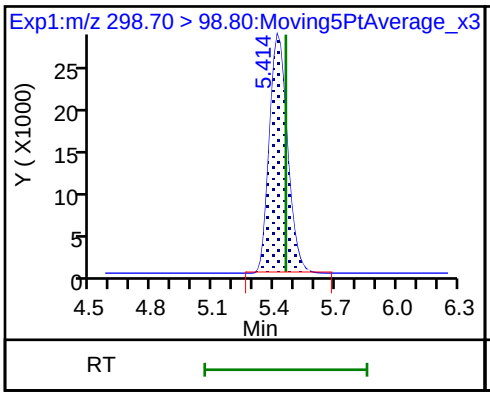
25 FBSA



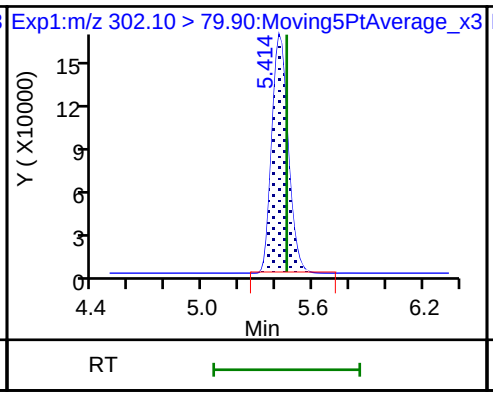
19 PFBS



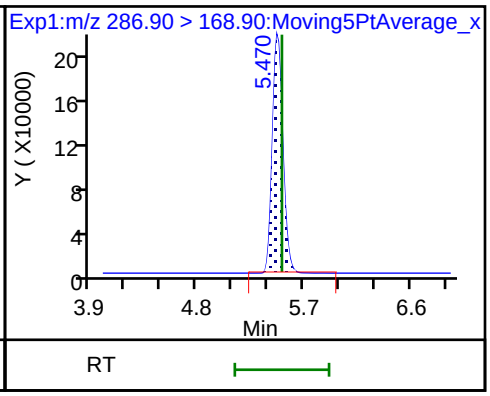
19 PFBS



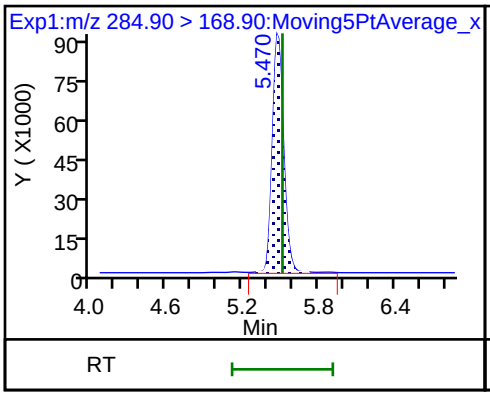
D 18 13C3 PFBS



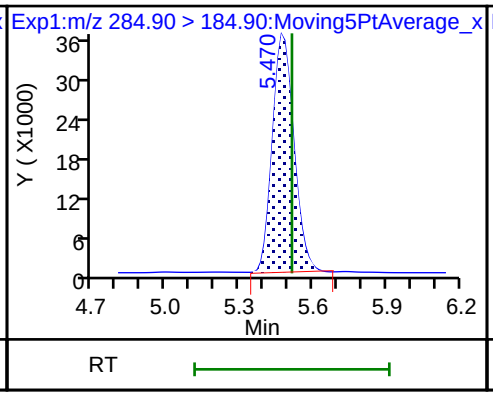
D 21 13C3 HFPO-DA



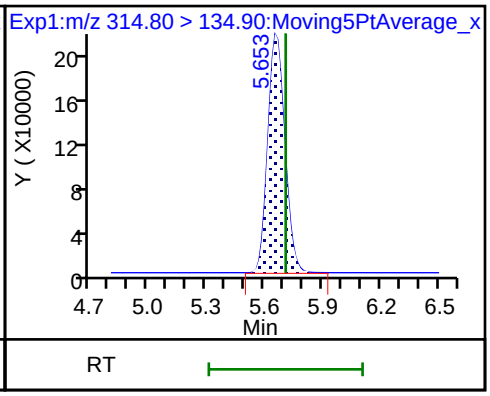
22 HFPO-DA



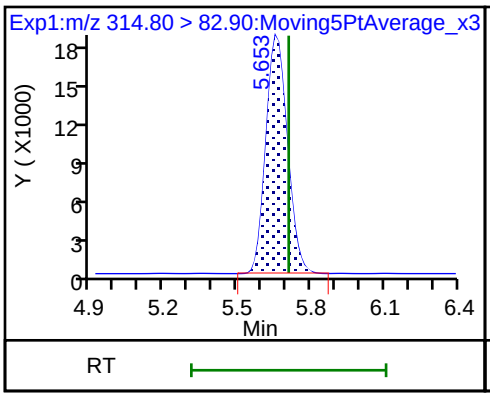
22 HFPO-DA



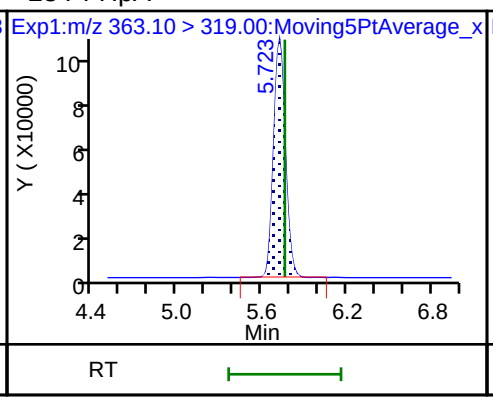
24 PFEESA



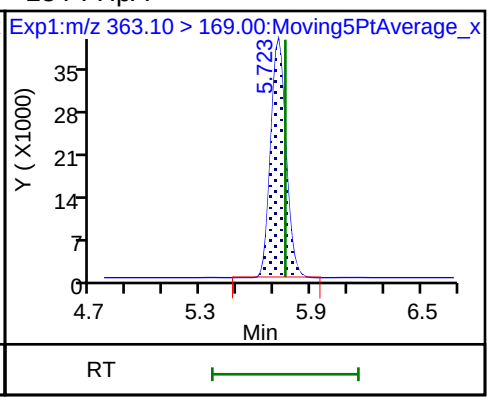
24 PFEESA



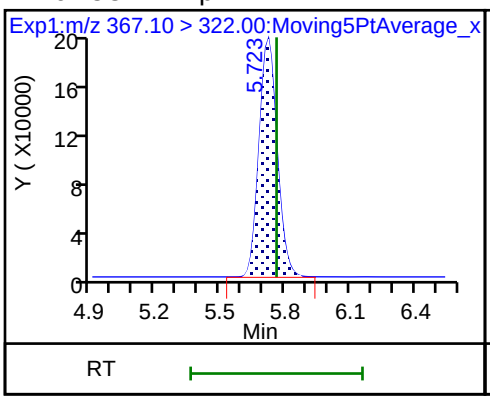
28 PFHpA



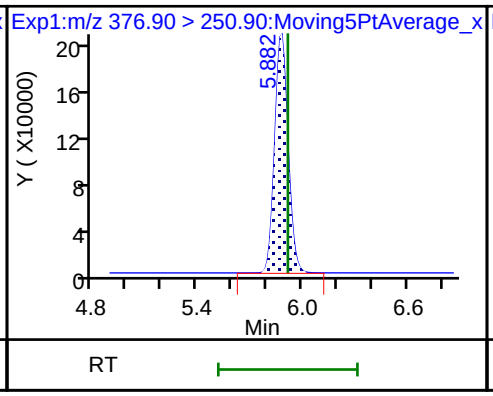
28 PFHpA



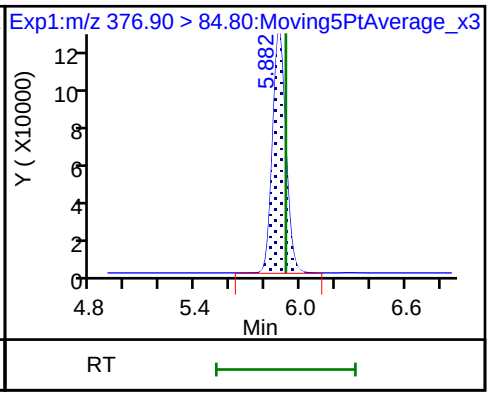
D 26 13C4 PFHpA



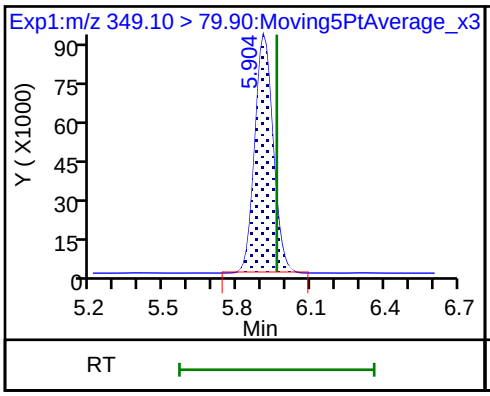
30 ADONA



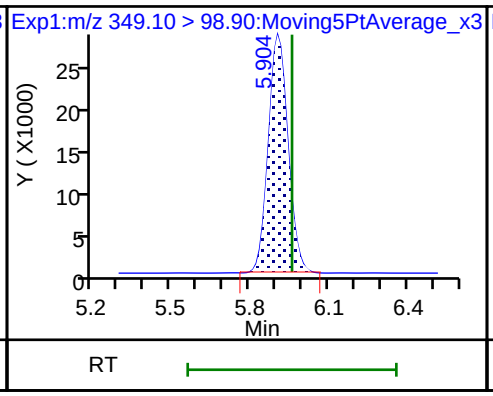
30 ADONA



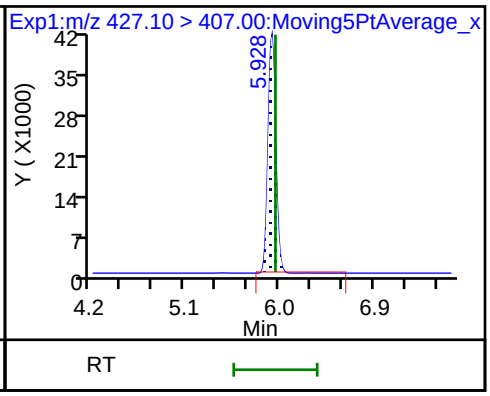
29 PFPeS



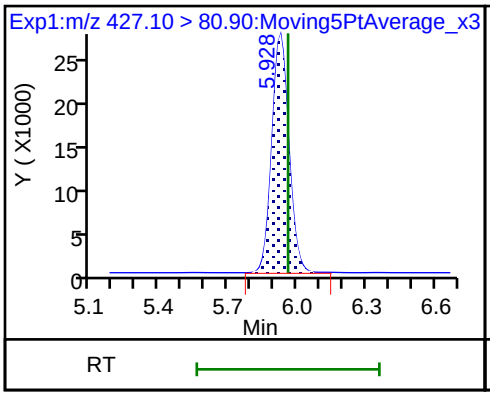
29 PFPeS



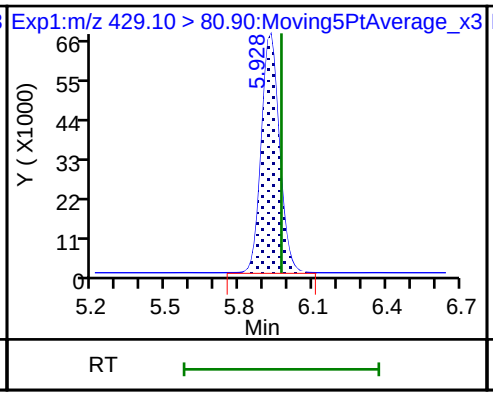
32 6:2FTS



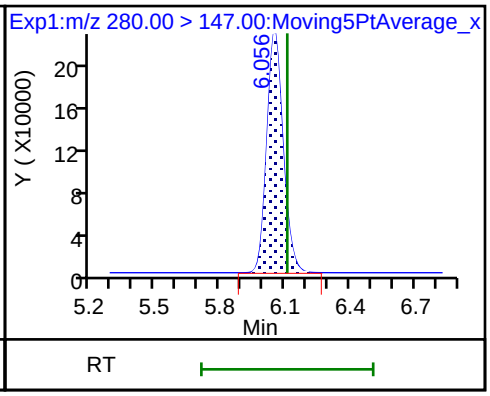
32 6:2FTS



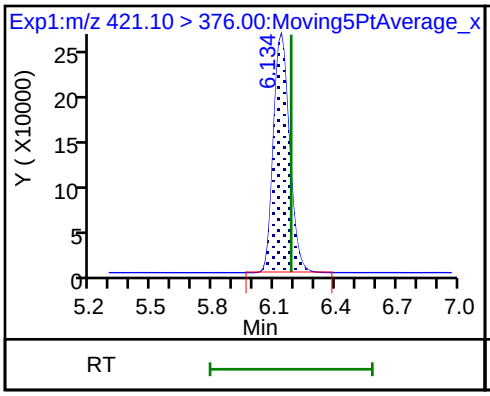
D 31 13C2-6:2FTS



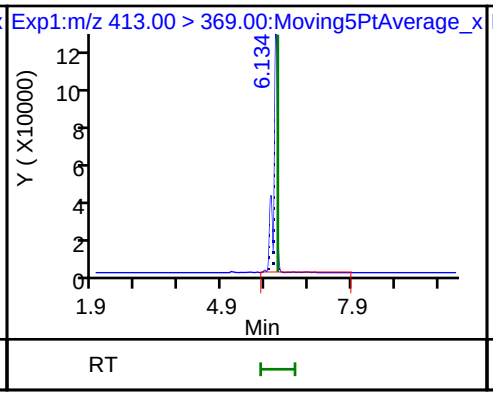
33 BTS



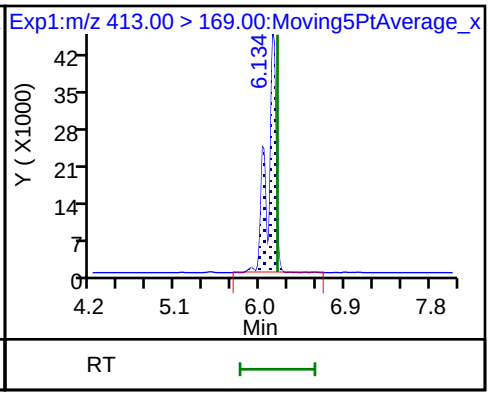
D 34 13C8 PFOA



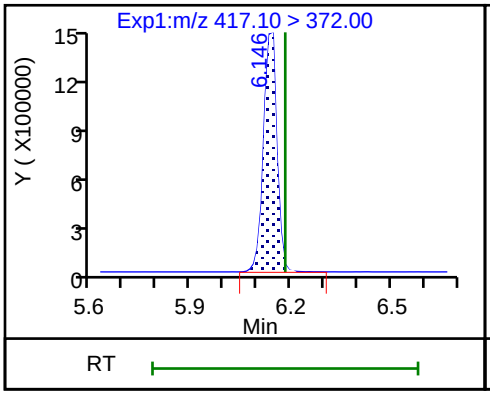
36 PFOA



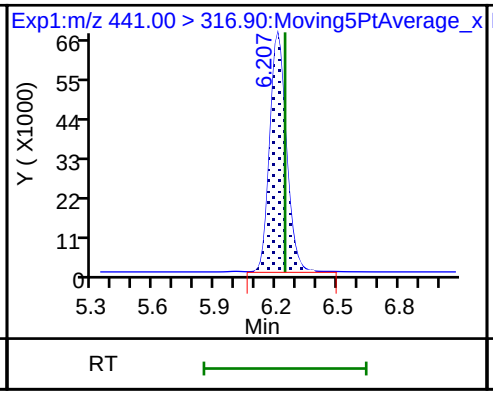
36 PFOA



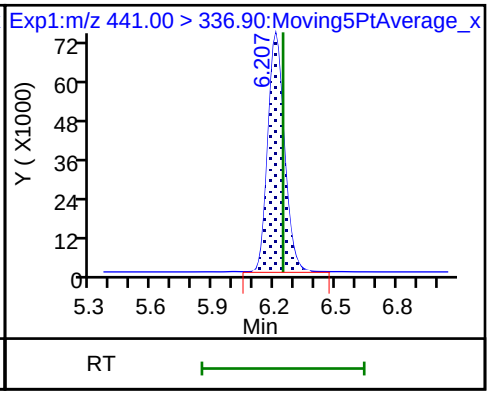
* 35 13C4 PFOA



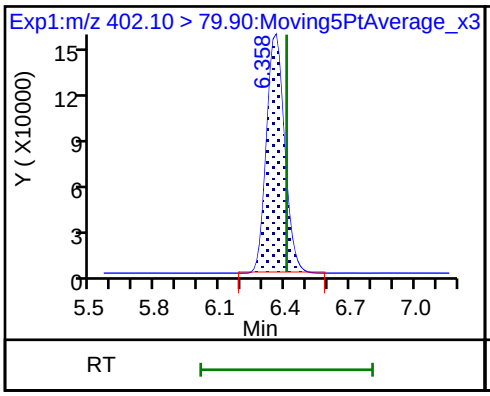
39 7:3 FTCA



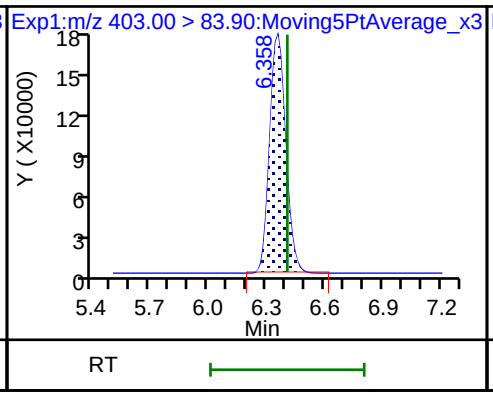
39 7:3 FTCA



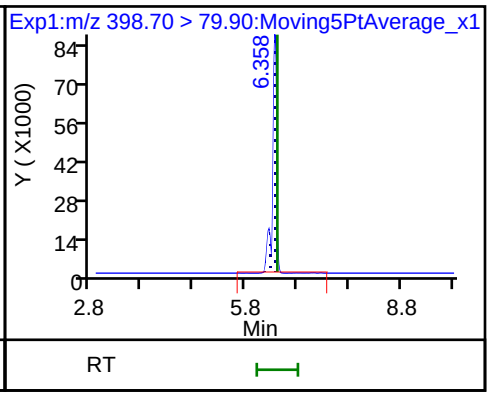
D 38 13C3 PFHxS



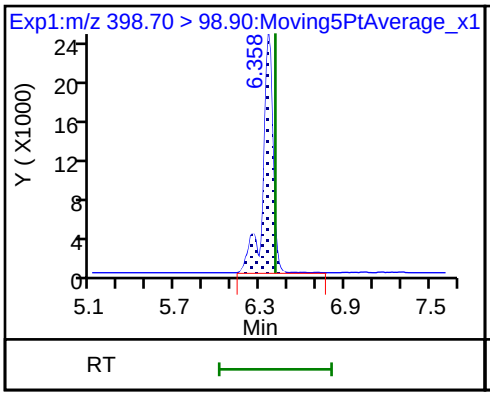
* 37 18O2 PFHxS



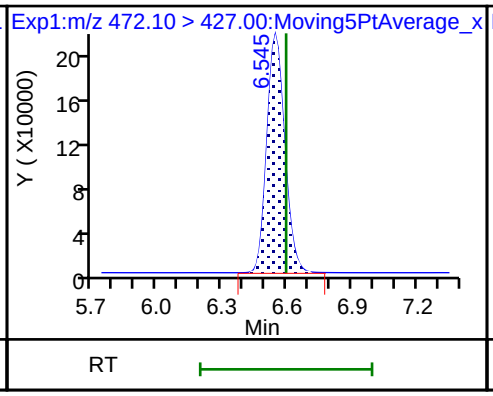
40 PFHxS



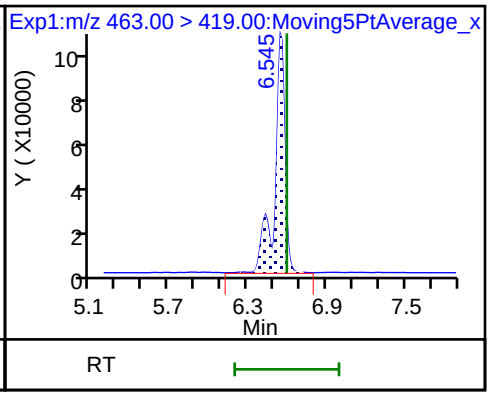
40 PFHxS



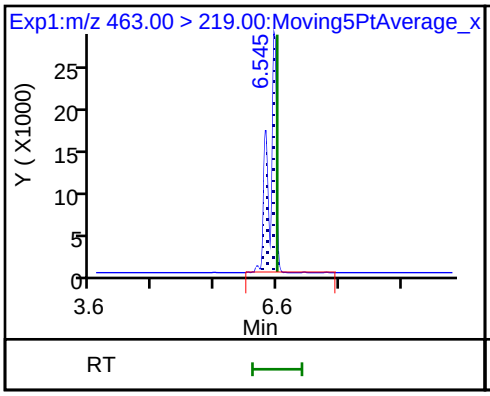
D 41 13C9 PFNA



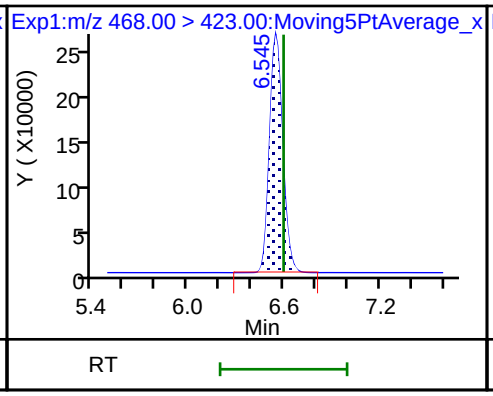
43 PFNA



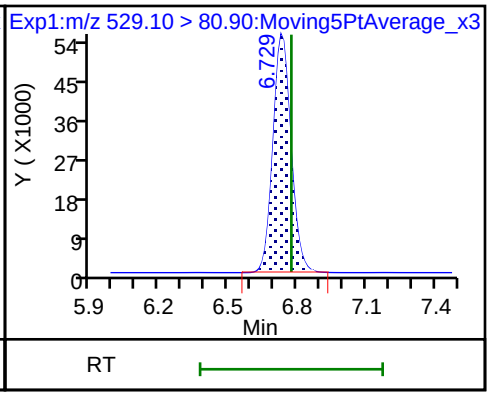
43 PFNA



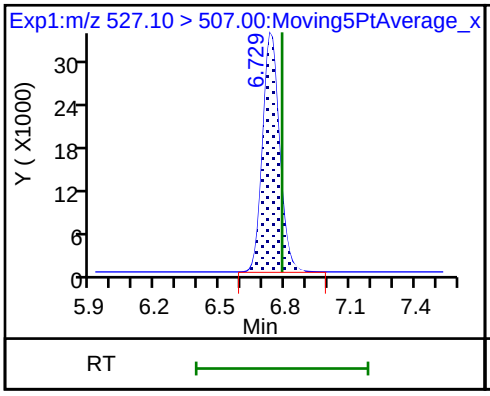
* 42 13C5 PFNA



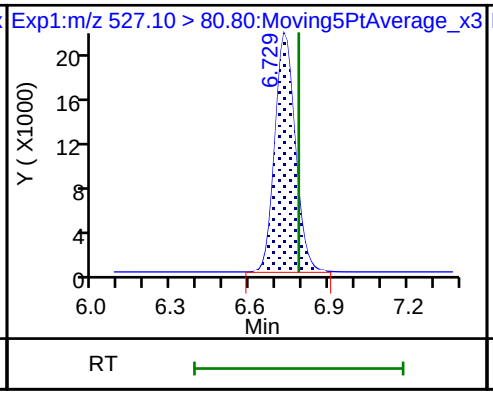
D 45 13C2-8:2FTS



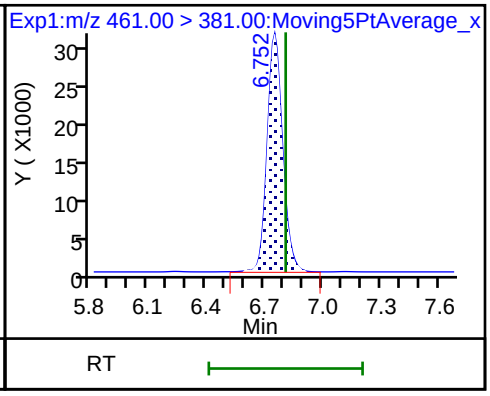
46 8:2FTS



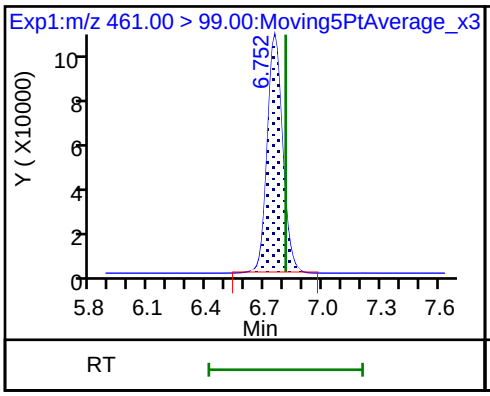
46 8:2FTS



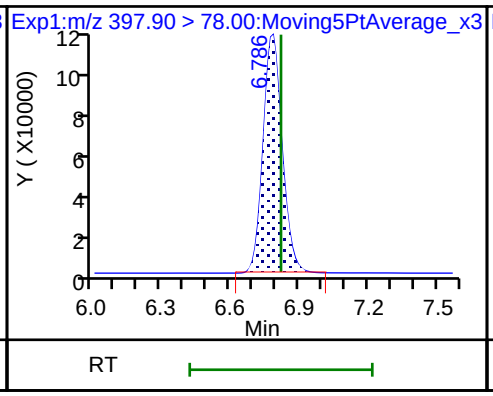
44 PFECHS



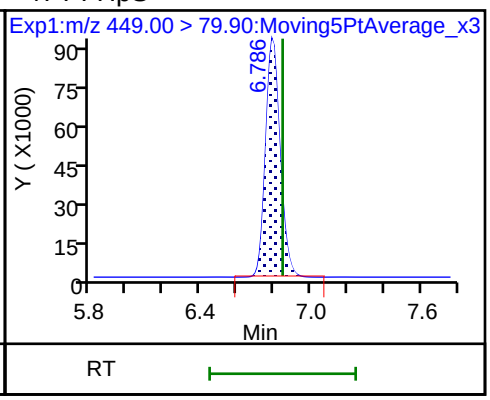
44 PFECHS



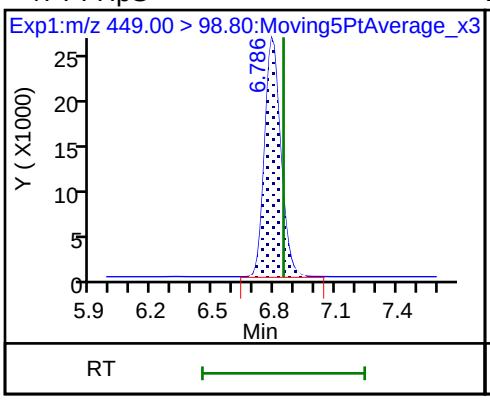
48 FHxSA



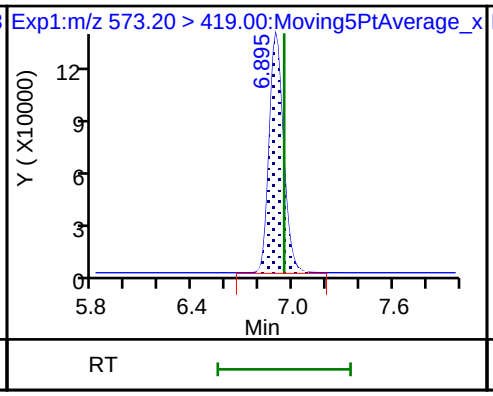
47 PFHpS



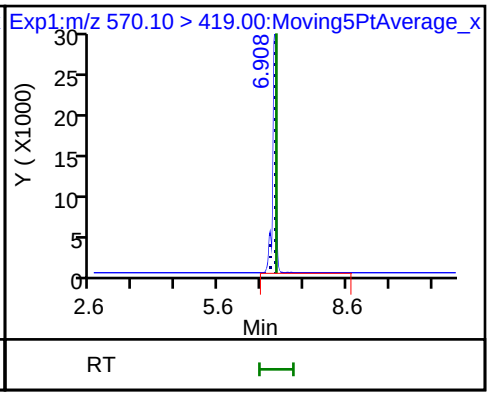
47 PFHpS



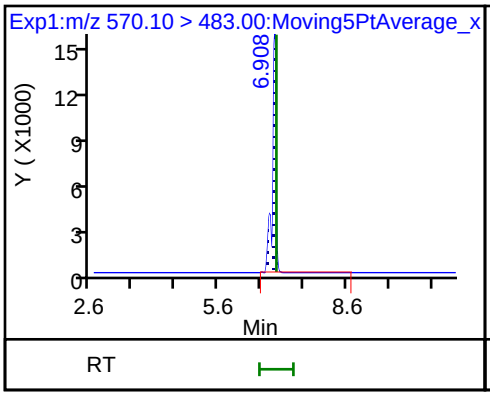
D 49 d3-NMeFOSAA



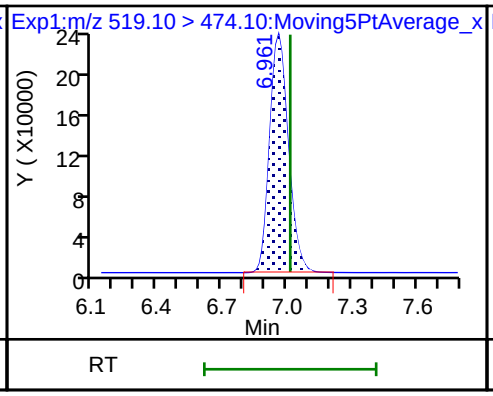
50 NMeFOSAA



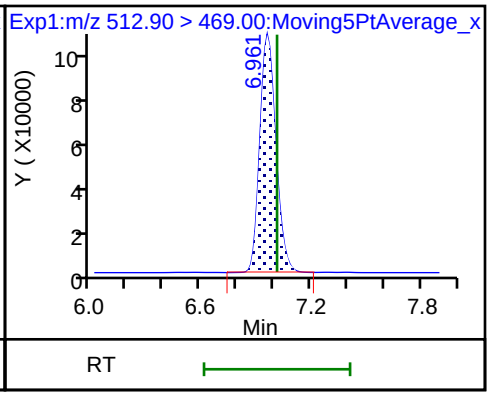
50 NMeFOSAA



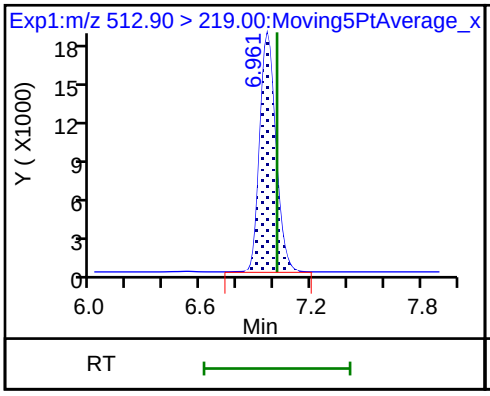
D 51 13C6 PFDA



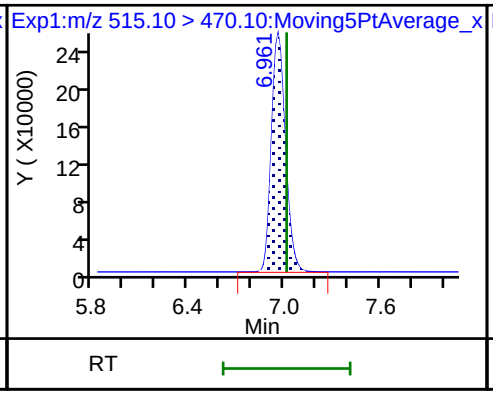
53 PFDA



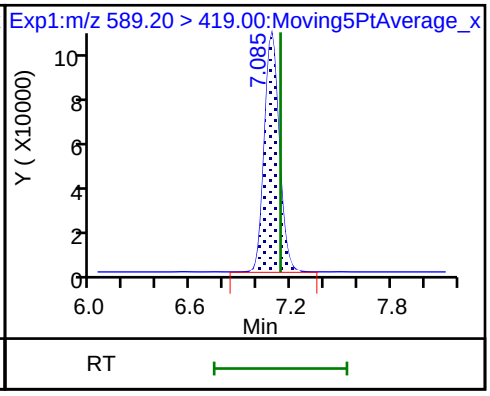
53 PFDA



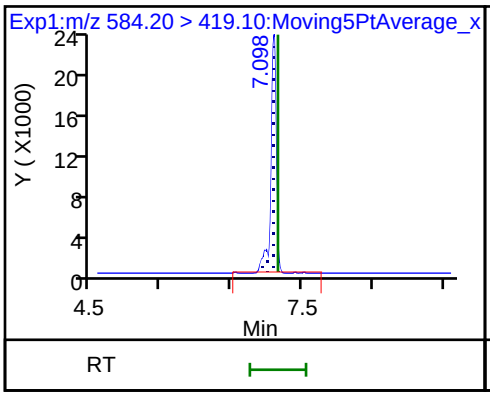
* 52 13C2 PFDA



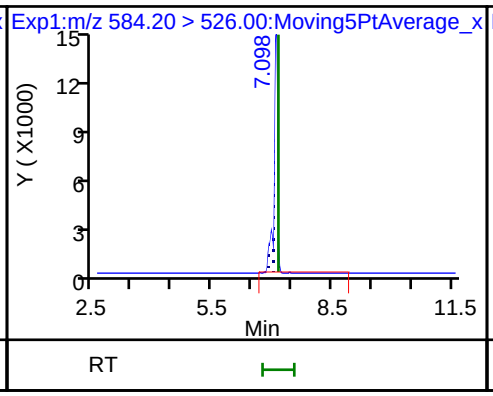
D 54 d5-NEtFOSAA



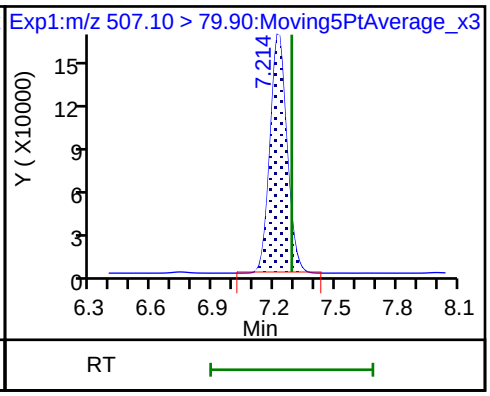
55 NEtFOSAA



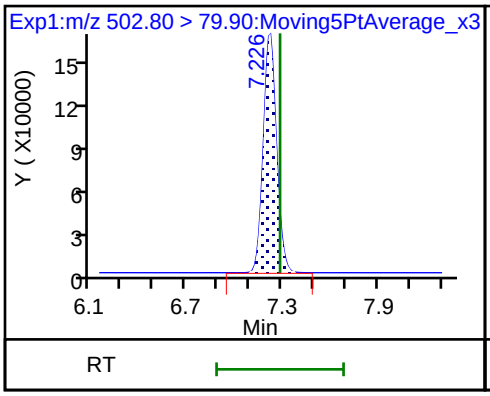
55 NEtFOSAA



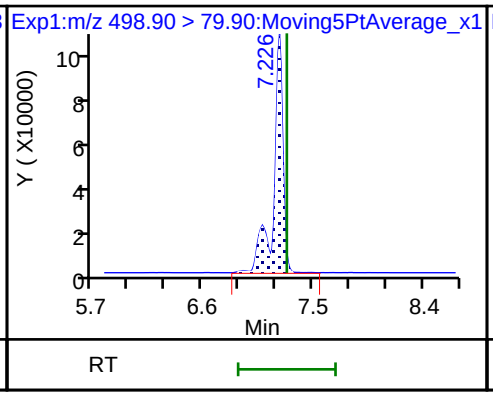
D 56 13C8 PFOS



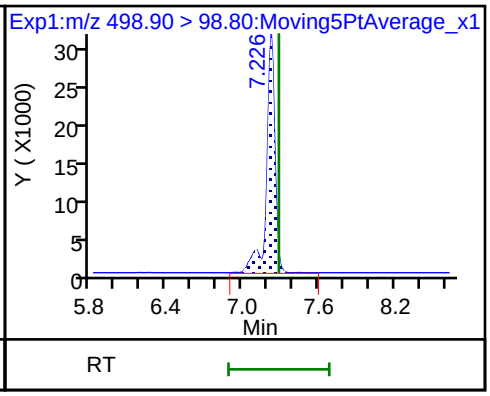
* 57 13C4 PFOS



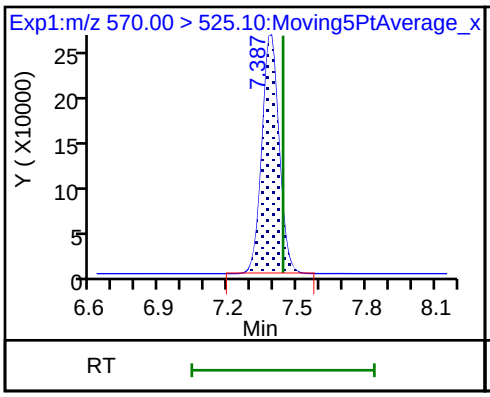
58 PFOS



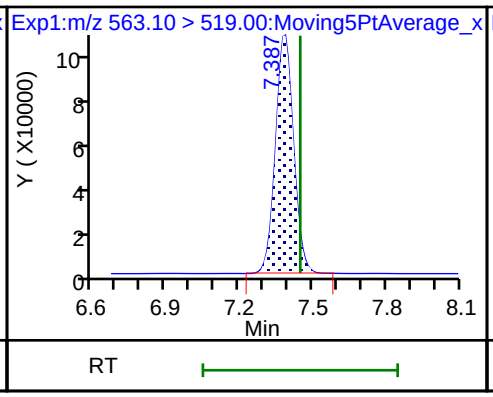
58 PFOS



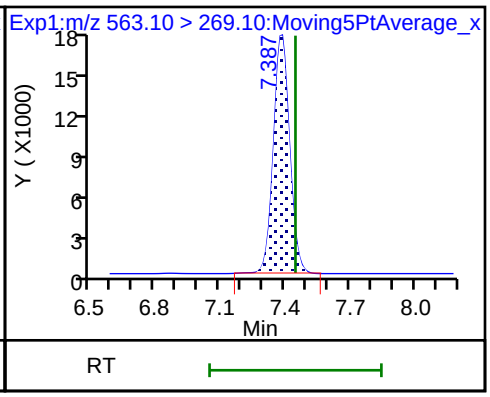
D 59 13C7 PFUnA



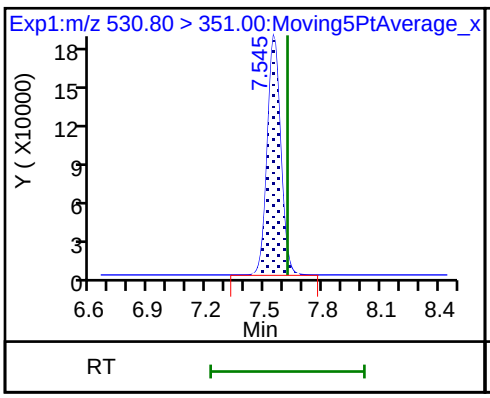
60 PFUnA



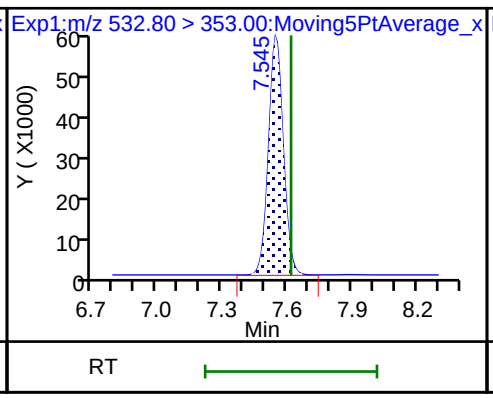
60 PFUnA



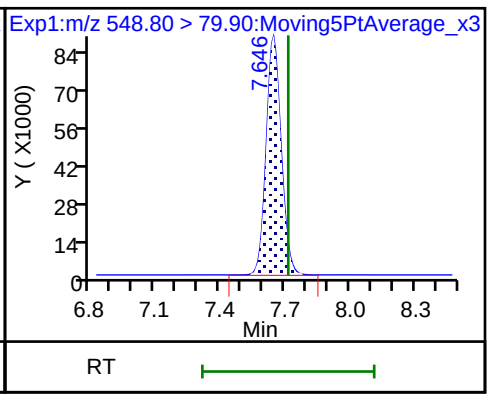
61 9ClFOS



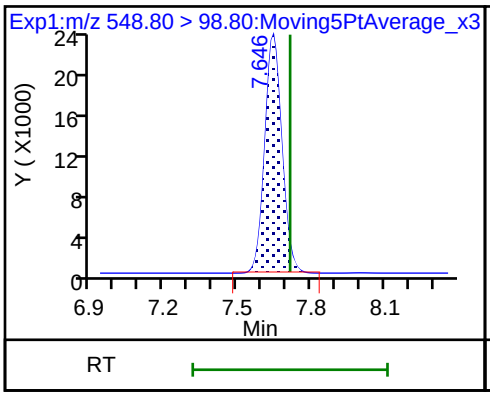
61 9ClFOS



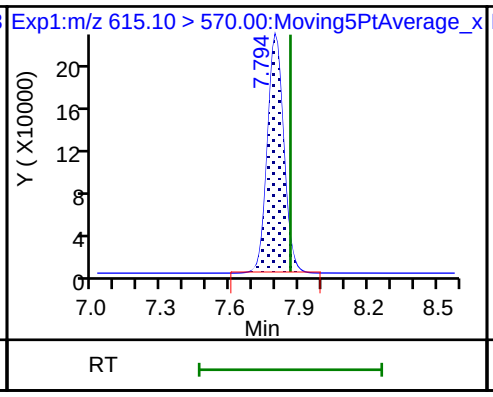
62 PFNS



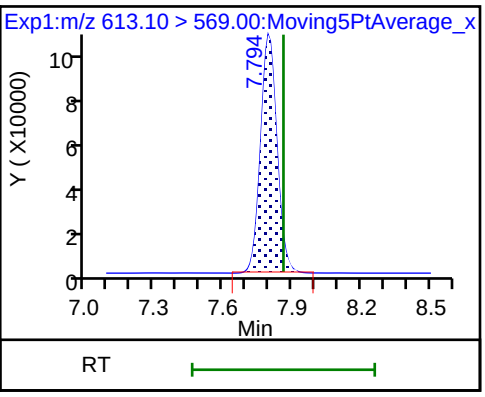
62 PFNS



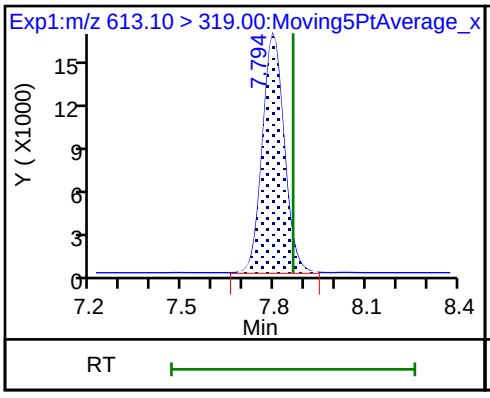
D 82 PFDoA



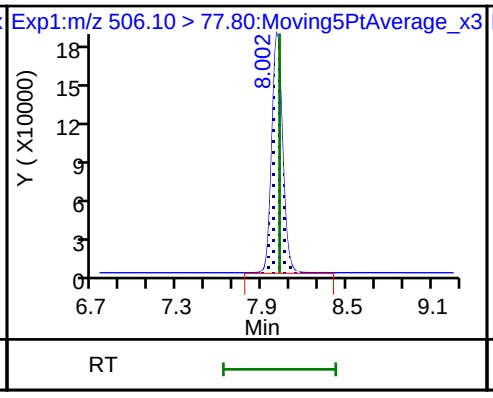
63 PFDoA



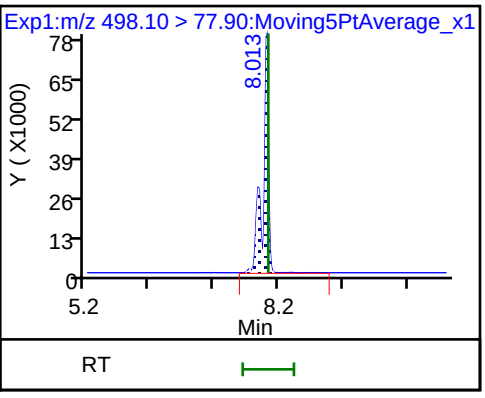
63 PFDoA



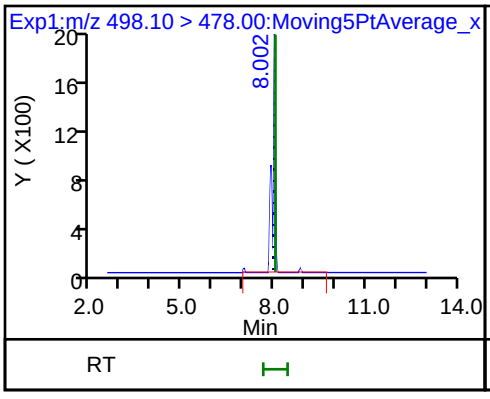
D 64 13C8 FOSA



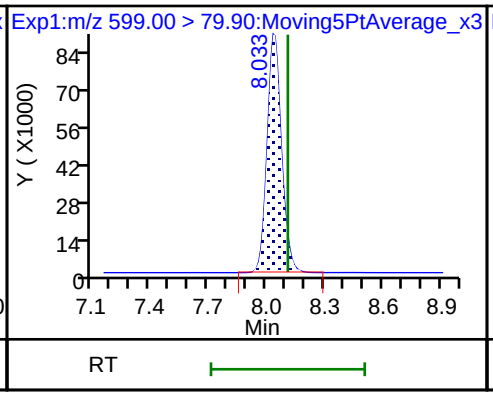
65 PFOSA



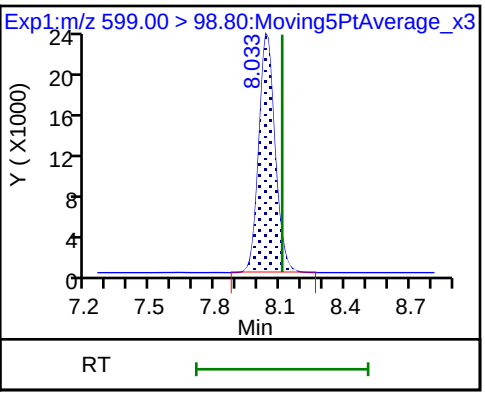
65 PFOSA



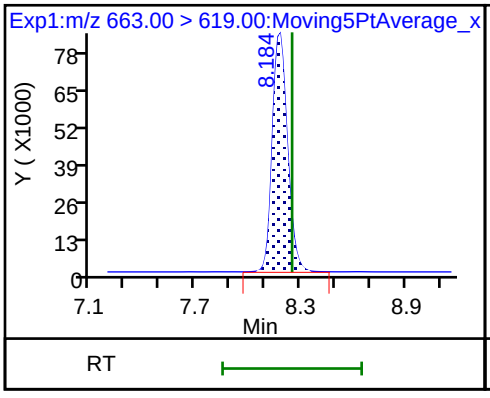
66 PFDS



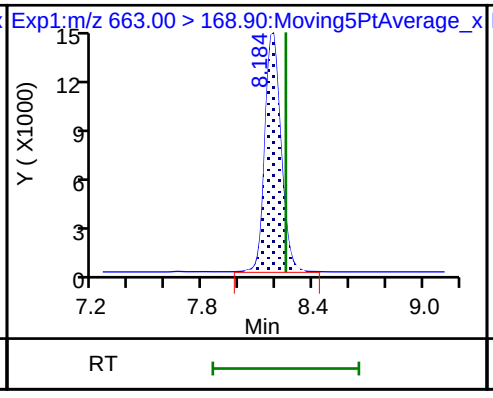
66 PFDS



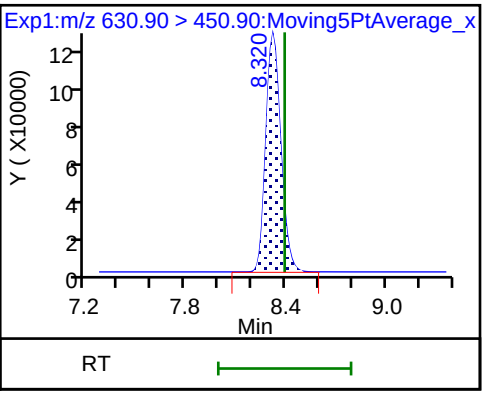
67 PFTrDA



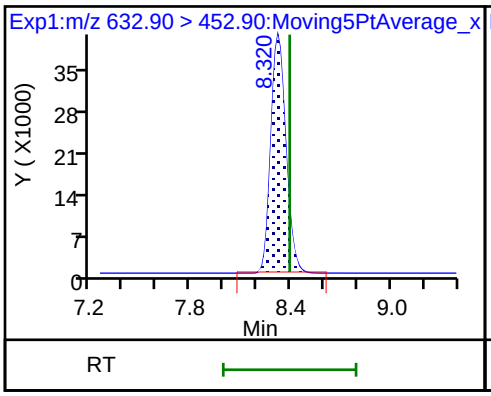
67 PFTrDA



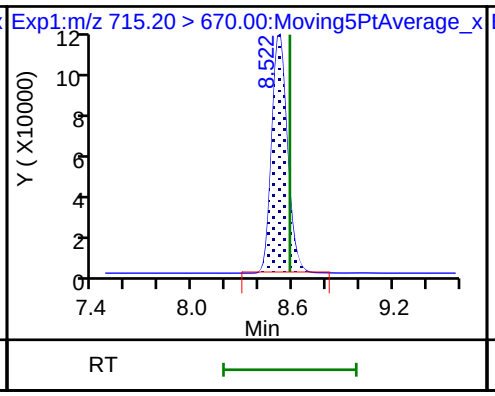
68 11ClFOS



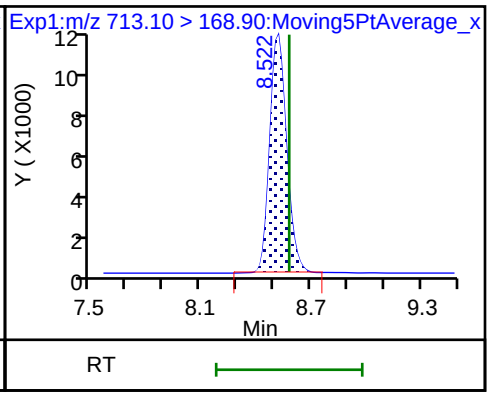
68 11ClFOS



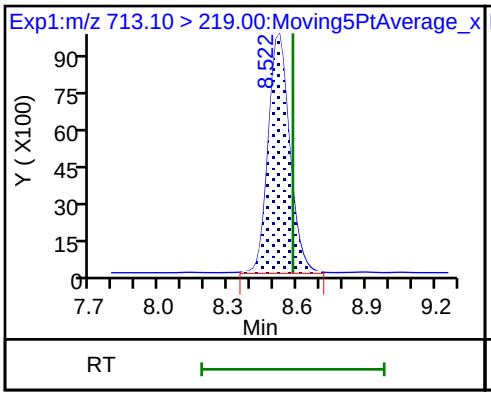
D 69 13C2 PFTeDA



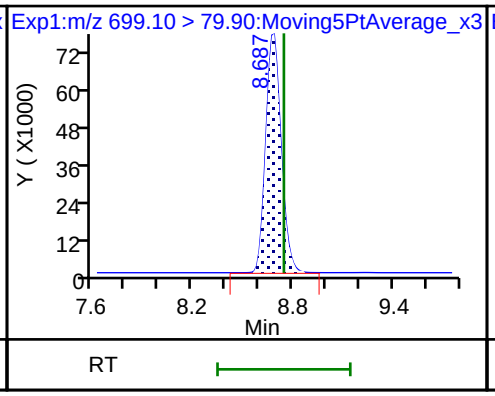
70 PFTeDA



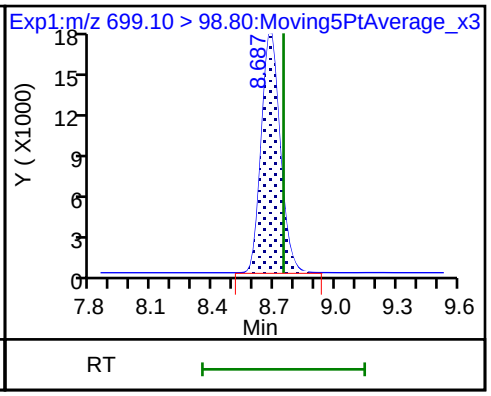
70 PFTeDA



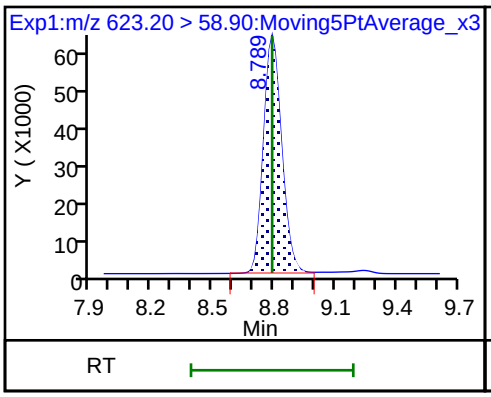
73 PFDoS



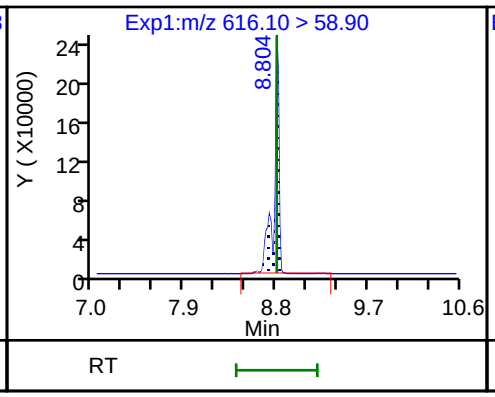
73 PFDoS



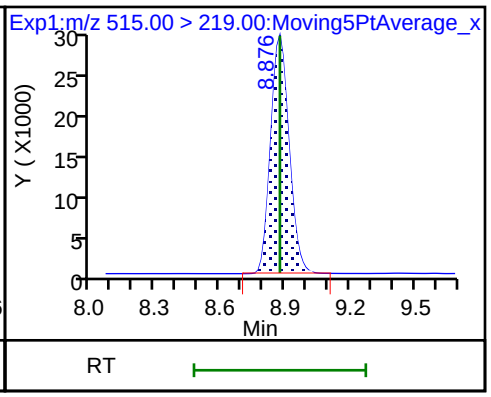
D 71 d7-N-Me-FOSE



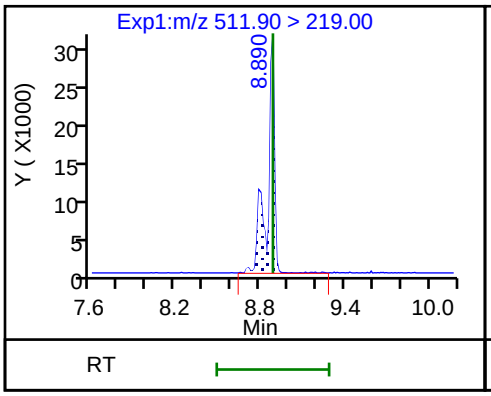
72 N-MeFOSE-M



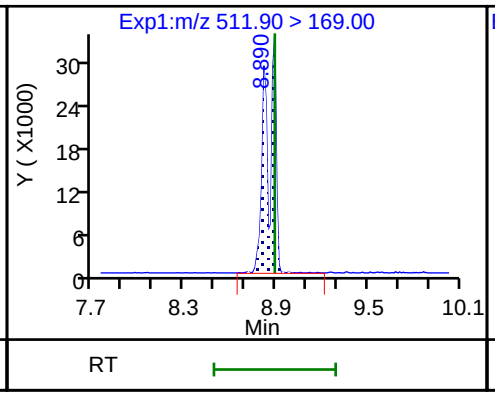
D 74 d3-NMePFOSA



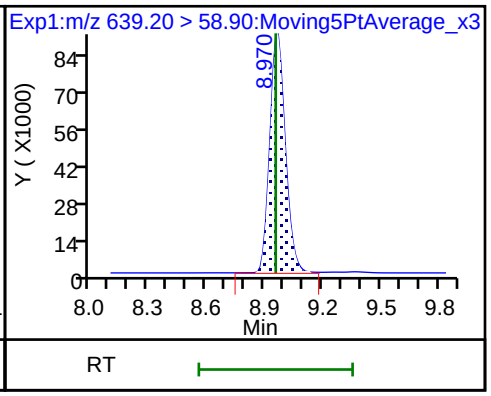
75 NMeFOSA



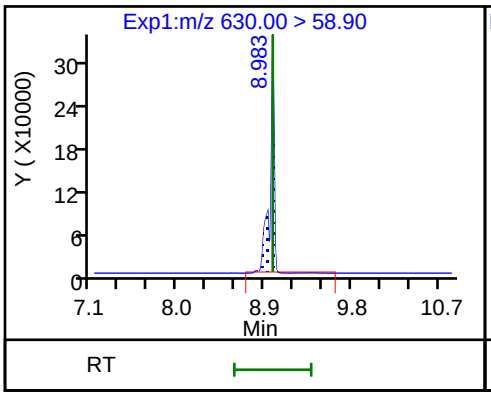
75 NMeFOSA



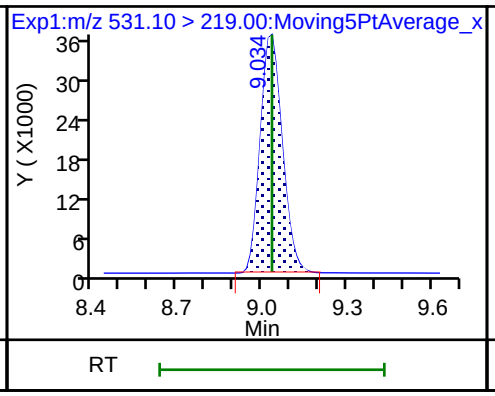
D 76 d9-N-EtFOSE



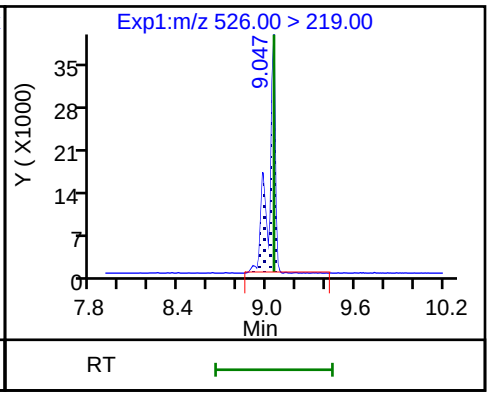
77 N-EtFOSE-M



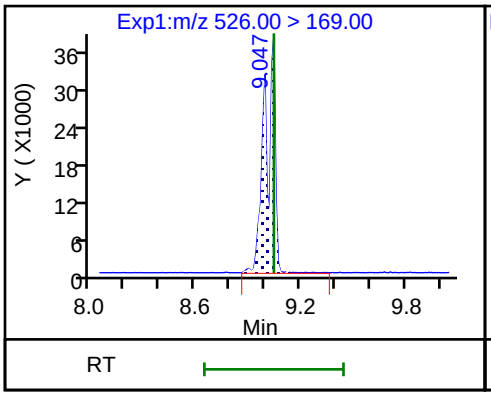
D 78 d5-NEtPFOSA



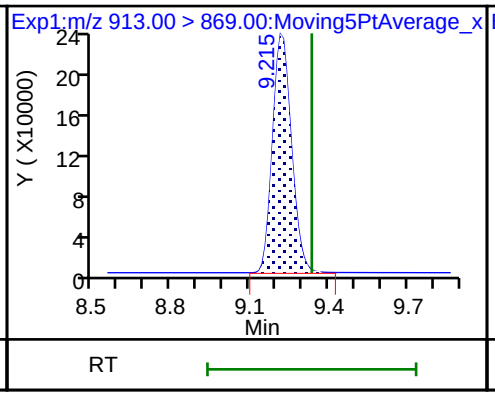
79 N-EtFOSA-M



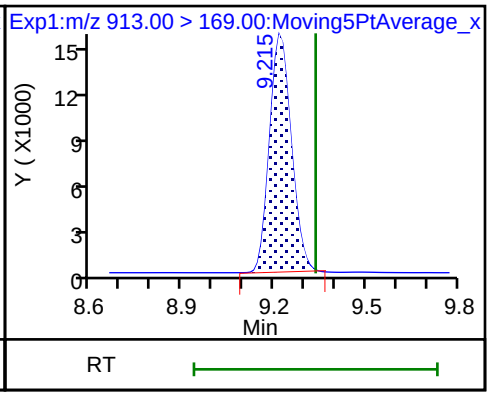
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-606716/3-A

Matrix: Water
Lab File ID: 25FEB17W-08.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:34

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	8.92		4.0	1.1
2706-90-3	Perfluoropentanoic acid	5.05		2.0	0.60
307-24-4	Perfluorohexanoic acid	4.95		2.0	0.50
375-85-9	Perfluoroheptanoic acid	4.90		2.0	0.80
335-67-1	Perfluorooctanoic acid	4.62		2.0	0.90
375-95-1	Perfluorononanoic acid	5.28		2.0	0.50
335-76-2	Perfluorodecanoic acid	4.77		2.0	0.50
2058-94-8	Perfluoroundecanoic acid	4.61		2.0	0.50
307-55-1	Perfluorododecanoic acid	4.39		2.0	0.50
72629-94-8	Perfluorotridecanoic acid	4.13		2.0	0.50
376-06-7	Perfluorotetradecanoic acid	4.57		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid	4.17		2.0	0.50
2706-91-4	Perfluoropentanesulfonic acid	4.65		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid	5.13		2.0	0.80
375-92-8	Perfluoroheptanesulfonic acid	3.90		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid	4.00		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid	4.36		2.0	0.50
335-77-3	Perfluorodecanesulfonic acid	4.45		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	3.80		2.0	0.60
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.18		4.0	1.0
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	8.67		4.0	1.0
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	8.52		4.0	1.0
754-91-6	Perfluorooctanesulfonamide	4.55		2.0	0.50
31506-32-8	NMeFOSA	4.84		2.0	0.50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	4.65		2.0	0.50
2355-31-9	NMeFOSAA	4.38		2.0	0.50
2991-50-6	NEtFOSAA	4.13		2.0	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-606716/3-A

Matrix: Water
Lab File ID: 25FEB17W-08.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:34

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	23.2		10	2.5
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	23.9		10	2.5
13252-13-6	HFPO-DA	3.76		2.0	0.75
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.40		2.0	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid	4.40		2.0	0.50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	4.55		2.0	0.50
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	4.19		2.0	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	4.55		2.0	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	4.56		2.0	0.50
113507-82-7	PFEESA	3.96		2.0	0.50
356-02-5	3:3 FTCA	7.95		4.0	1.0
914637-49-3	5:3 FTCA	18.9		10	2.8
812-70-4	7:3 FTCA	15.8		10	2.5

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-606716/3-A

Matrix: Water
Lab File ID: 25FEB17W-08.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 125(mL)
Date Analyzed: 02/17/2025 17:34

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	89.3		5-130
STL01893	13C5 PFPeA	107		40-130
STL02577	13C5 PFHxA	108		40-130
STL01892	13C4 PFHpA	111		40-130
STL01052	13C8 PFOA	79.6		40-130
STL02578	13C9 PFNA	79.9		40-130
STL02579	13C6 PFDA	84.6		40-130
STL02580	13C7 PFUnA	90.2		30-130
STL02116	13C2 PFTeDA	86.6		10-130
STL02337	13C3 PFBS	94.6		40-135
STL02581	13C3 PFHxS	83.6		40-130
STL01054	13C8 PFOS	92.2		40-130
STL01056	13C8 FOSA	74.6		40-130
STL02118	d3-NMeFOSAA	92.1		40-170
STL02117	d5-NEtFOSAA	91.6		25-135
STL02395	M2-4:2 FTS	81.6		40-200
STL02279	M2-6:2 FTS	80.6		40-200
STL02280	M2-8:2 FTS	79.7		40-300
STL02255	13C3 HFPO-DA	108		40-130
STL02277	d7-N-MeFOSE-M	79.3		10-130
STL02278	d9-N-EtFOSE-M	77.7		10-130
STL02704	d5-NEtPFOSA	51.9		10-130
STL02705	d3-NMePFOSA	51.0		10-130
STL00998	13C2 PFDoA	84.4		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-08.d
Lims ID: LLCS 410-606716/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 17-Feb-2025 17:34:12 ALS Bottle#: 13 Worklist Smp#: 81
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LLCS 410-606716/3-A
Misc. Info.: Plate: 2 Rack: 1 410-0138392-081
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 17-Feb-2025 18:30:39 Calib Date: 12-Feb-2025 14:20:31
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20250212-138001.b\25FEB12-CAL-12.d

Column 1 : Det: EXP1
Process Host: CTX1638

First Level Reviewer: JU9U Date: 17-Feb-2025 18:22:29
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										M
163.00 > 119.00	1.956	2.102	-0.146	0.996	209190	0.5680		114	465	M
D 1 13C3PFPrA										
166.00 > 121.00	1.964	2.118	-0.154	0.469	760148	1.60		79.8	16153	
5 PFBA										
212.80 > 168.90	4.176	4.216	-0.040	0.998	140022	0.2231		112	1548	
D 3 13C4-PFBA										
216.80 > 171.90	4.184	4.224	-0.040	1.000	1423406	1.79		89.3	73640	
* 4 13C3PFBA										
216.00 > 172.00	4.184	4.224	-0.040		1491626	2.00			51501	
6 PFMPA										
229.00 > 84.90	4.509	4.540	-0.031	0.933	73135	0.1099		110	4882	
7 3:3 FTCA										
241.00 > 177.00	4.521	4.551	-0.030	0.935	7105	0.1988	Target=1.15	99.4	475	
241.00 > 117.00	4.532	4.551	-0.019	0.938	6710		1.06(0.58-1.73)		456	
D 8 13C5 PFPeA										
268.30 > 223.00	4.834	4.866	-0.032	0.915	768156	2.13		107	50771	
9 PFPA										
263.00 > 219.00	4.834	4.866	-0.032	1.000	72821	0.1263		126	2883	
10 PFMBA										
279.00 > 85.10	4.988	5.020	-0.032	1.032	69249	0.1137		114	4473	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.103	5.139	-0.036	0.804	351022	3.83		81.6	16187	
12 4:2FTS										
327.10 > 307.00	5.103	5.139	-0.036	1.000	22763	0.2046	Target=1.45	110	1366	
327.10 > 80.90	5.103	5.139	-0.036	1.000	16335		1.39(0.73-2.18)		596	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.246	5.283	-0.037	0.993	47768	0.1047	Target=1.37	105	2778	
295.00 > 84.90	5.246	5.283	-0.037	0.993	36520		1.31(0.68-2.05)		2165	
D 15 13C5 PFHxA										
318.00 > 273.00	5.284	5.318	-0.034	1.000	1123624	2.15		108	66467	
* 16 13C2 PFHxA										
315.10 > 270.00	5.284	5.318	-0.034		2955184	5.00			174657	
17 PFHxA										
313.00 > 269.00	5.296	5.318	-0.022	1.002	64741	0.1238	Target=10.68	124	2818	
313.00 > 118.90	5.284	5.318	-0.034	1.000	6518		9.93(5.34-16.02)		374	
20 5:3 FTCA										
341.00 > 237.10	5.373	5.400	-0.027	1.017	44956	0.4723	Target=0.98	94.5	2477	
341.00 > 217.00	5.373	5.400	-0.027	1.017	47446		0.95(0.49-1.47)		2637	
25 FBSA										
297.90 > 78.00	5.387	5.442	-0.055	0.995	60013	0.0960		96.0	3247	
19 PFBS										
298.70 > 79.90	5.415	5.456	-0.041	1.000	61918	0.1043	Target=2.96	117	3325	
298.70 > 98.80	5.415	5.456	-0.041	1.000	22124		2.80(1.48-4.44)		1179	
D 18 13C3 PFBS										
302.10 > 79.90	5.415	5.456	-0.041	0.853	1124809	1.76		94.6	61063	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.472	5.514	-0.042	1.035	1392685	2.16		108	75653	
22 HFPO-DA										
284.90 > 168.90	5.472	5.514	-0.042	1.000	65432	0.0941	Target=2.37	125	1756	
284.90 > 184.90	5.472	5.514	-0.042	1.000	25732		2.54(1.19-3.56)		1023	
24 PFEESA										
314.80 > 134.90	5.654	5.709	-0.055	1.070	151975	0.0989	Target=11.81	111	8239	
314.80 > 82.90	5.654	5.709	-0.055	1.070	11003		13.81(5.90-17.71)		598	
28 PFHpA										
363.10 > 319.00	5.724	5.760	-0.036	1.000	68745	0.1224	Target=2.56	122	2353	
363.10 > 169.00	5.724	5.760	-0.036	1.000	23044		2.98(1.28-3.85)		1316	
D 26 13C4 PFHpA										
367.10 > 322.00	5.724	5.760	-0.036	1.083	1178146	2.22		111	67254	
30 ADONA										
376.90 > 250.90	5.872	5.916	-0.044	1.073	146176	0.1101	Target=1.81	116	3446	
376.90 > 84.80	5.872	5.916	-0.044	1.073	84727		1.73(0.90-2.71)		5358	
29 PFPeS										
349.10 > 79.90	5.906	5.960	-0.054	0.931	57240	0.1164	Target=3.25	124	2763	
349.10 > 98.90	5.906	5.960	-0.054	0.931	17808		3.21(1.63-4.88)		1148	
32 6:2FTS										
427.10 > 407.00	5.917	5.960	-0.043	1.000	26888	0.2167	Target=1.57	114	1699	
427.10 > 80.90	5.917	5.960	-0.043	1.000	16591		1.62(0.78-2.35)		1086	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.917	5.971	-0.054	0.932	368422	3.83		80.6	24070	
33 BTS										
280.00 > 147.00	6.046	6.110	-0.064	0.953	107985	0.1017		104	6769	
D 34 13C8 PFOA										
421.10 > 376.00	6.123	6.183	-0.060	0.998	1569489	1.59		79.6	72182	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.135	6.183	-0.048	1.002	81060	0.1156	Target=2.35	116	1597	
413.00 > 169.00	6.135	6.183	-0.048	1.002	33911		2.39(1.18-3.53)		5460	
* 35 13C4 PFOA										
417.10 > 372.00	6.135	6.183	-0.048		4617890	5.00			649804	
39 7:3 FTCA										
441.00 > 316.90	6.208	6.243	-0.035	1.175	43899	0.3952	Target=0.90	79.0	2647	
441.00 > 336.90	6.208	6.243	-0.035	1.175	56933		0.77(0.45-1.35)		3377	
D 38 13C3 PFHxS										
402.10 > 79.90	6.346	6.407	-0.061	1.000	945983	1.59		83.6	54682	
* 37 18O2 PFHxS										
403.00 > 83.90	6.346	6.407	-0.061		1100524	1.89			63795	
40 PFHxS										
398.70 > 79.90	6.346	6.407	-0.061	1.000	52833	0.1282	Target=3.23	141	5142	
398.70 > 98.90	6.359	6.407	-0.048	1.002	14357		3.68(1.62-4.85)		2830	
D 41 13C9 PFNA										
472.10 > 427.00	6.533	6.595	-0.062	1.000	1358696	1.60		79.9	58841	
43 PFNA										M
463.00 > 419.00	6.546	6.595	-0.049	1.002	73685	0.1319	Target=2.70	132	2088	M
463.00 > 219.00	6.546	6.595	-0.049	1.002	23892		3.08(1.35-4.05)		4020	
* 42 13C5 PFNA										
468.00 > 423.00	6.533	6.595	-0.062		1661549	2.00			95472	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.718	6.774	-0.056	1.059	316841	3.82		79.7	19613	
46 8:2FTS										
527.10 > 507.00	6.729	6.786	-0.057	1.002	19570	0.2129	Target=1.51	111	1257	
527.10 > 80.80	6.729	6.786	-0.057	1.002	11219		1.74(0.75-2.26)		667	
44 PFECHS										
461.00 > 381.00	6.741	6.809	-0.068	1.062	18760	0.1159	Target=0.29	125	1127	
461.00 > 99.00	6.741	6.809	-0.068	1.062	67407		0.28(0.15-0.44)		4183	
48 FHxSA										
397.90 > 78.00	6.775	6.820	-0.045	1.068	62391	0.1031		103	3558	
47 PFHpS										
449.00 > 79.90	6.786	6.845	-0.059	0.941	54894	0.0974	Target=3.66	102	3299	
449.00 > 98.80	6.786	6.845	-0.059	0.941	16167		3.40(1.83-5.49)		944	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.896	6.947	-0.051	0.956	900235	4.60		92.1	51269	
50 NMeFOSAA										
570.10 > 419.00	6.896	6.947	-0.051	1.000	19776	0.1094	Target=1.83	109	4228	
570.10 > 483.00	6.896	6.947	-0.051	1.000	9613		2.06(0.91-2.74)		1954	
D 51 13C6 PFDA										
519.10 > 474.10	6.947	7.014	-0.067	1.000	1467066	1.69		84.6	60262	
53 PFDA										
512.90 > 469.00	6.961	7.014	-0.053	1.002	75306	0.1191	Target=5.26	119	3048	
512.90 > 219.00	6.961	7.014	-0.053	1.002	15026		5.01(2.63-7.89)		798	
* 52 13C2 PFDA										
515.10 > 470.10	6.947	7.014	-0.067		1644780	2.00			67552	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.071	7.137	-0.066	0.980	735115	4.58		91.6	39521	
55 NEtFOSAA										
584.20 > 419.10	7.085	7.150	-0.065	1.002	12154	0.1033	Target=1.37	103	2120	
584.20 > 526.00	7.085	7.150	-0.065	1.002	10075		1.21(0.69-2.06)		2055	
D 56 13C8 PFOS										
507.10 > 79.90	7.214	7.285	-0.071	1.000	1013156	1.76		92.2	35548	
* 57 13C4 PFOS										
502.80 > 79.90	7.214	7.285	-0.071		1073275	1.91			62712	
58 PFOS										
498.90 > 79.90	7.214	7.285	-0.071	1.000	67463	0.1001	Target=4.45	108	6450	
498.90 > 98.80	7.214	7.285	-0.071	1.000	19763		3.41(2.23-6.68)		4216	
D 59 13C7 PFUnA										
570.00 > 525.10	7.377	7.438	-0.061	1.062	1459288	1.80		90.2	70764	
60 PFUnA										
563.10 > 519.00	7.377	7.448	-0.071	1.000	67593	0.1152	Target=6.24	115	4409	
563.10 > 269.10	7.367	7.448	-0.082	0.999	8414		8.03(3.12-9.36)		554	
61 9ClFOS										
530.80 > 351.00	7.536	7.618	-0.082	1.377	96647	0.1137	Target=3.02	122	6789	
532.80 > 353.00	7.536	7.618	-0.082	1.377	31178		3.10(1.51-4.54)		2144	
62 PFNS										
548.80 > 79.90	7.637	7.714	-0.077	1.059	50279	0.1090	Target=3.66	113	3506	
548.80 > 98.80	7.637	7.714	-0.077	1.059	12261		4.10(1.83-5.49)		865	
D 82 PFDoA										
615.10 > 570.00	7.785	7.862	-0.077	1.121	1149018	1.69		84.4	77567	
63 PFDoA										
613.10 > 569.00	7.785	7.862	-0.077	1.000	59084	0.1098	Target=6.35	110	3962	
613.10 > 319.00	7.785	7.862	-0.077	1.000	10246		5.77(3.17-9.52)		700	
D 64 13C8 FOSA										
506.10 > 77.80	8.002	8.022	-0.020	1.109	1022049	1.49		74.6	48898	
65 PFOSA										
498.10 > 77.90	8.002	8.033	-0.031	1.000	52492	0.1139	Target=40.87	114	8639	
498.10 > 478.00	8.013	8.033	-0.020	1.001	1159		45.29(20.44-61.31)		229	
66 PFDS										
599.00 > 79.90	8.033	8.110	-0.077	1.114	54786	0.1112	Target=3.79	115	3584	
599.00 > 98.80	8.023	8.110	-0.087	1.112	13129		4.17(1.90-5.69)		873	
67 PFTrDA										
663.00 > 619.00	8.170	8.252	-0.082	0.960	58607	0.1033	Target=5.85	103	3327	
663.00 > 168.90	8.170	8.252	-0.082	0.960	9300		6.30(2.93-8.78)		523	
68 11ClFOS										
630.90 > 450.90	8.306	8.392	-0.086	1.518	91348	0.1140	Target=3.00	121	4884	
632.90 > 452.90	8.306	8.392	-0.086	1.518	25952		3.52(1.50-4.50)		1415	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.508	8.581	-0.073	1.225	833513	1.73		86.6	43566	
70 PFTeDA										
713.10 > 168.90	8.508	8.581	-0.073	1.000	8348	0.1143	Target=1.17	114	429	
713.10 > 219.00	8.508	8.581	-0.073	1.000	7619		1.10(0.58-1.75)		409	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.672	8.745	-0.073	1.202	51604	0.0949	Target=4.47	97.9	2730	
699.10 > 98.80	8.672	8.745	-0.073	1.202	13059		3.95(2.23-6.70)		687	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.789	8.789	0.0	1.218	422172	3.96		79.3	7569	
72 N-MeFOSE-M										
616.10 > 58.90	8.804	8.803	0.001	1.002	90011	0.5789		116	534	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.876	8.876	0.0	1.230	183323	1.02		51.0	10236	
75 NMeFOSA										
511.90 > 219.00	8.876	8.889	-0.013	1.000	11531	0.1210	Target=0.74	121	77.2	
511.90 > 169.00	8.876	8.889	-0.013	1.000	17480		0.66(0.37-1.12)		87.8	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.957	8.957	0.0	1.242	538246	3.88		77.7	13785	
77 N-EtFOSE-M										
630.00 > 58.90	8.983	8.983	0.0	1.003	117343	0.5974		119	513	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.022	9.034	-0.012	1.251	210271	1.04		51.9	12878	
79 N-EtFOSA-M										
526.00 > 219.00	9.035	9.047	-0.012	1.001	13130	0.1164	Target=0.80	116	112	
526.00 > 169.00	9.035	9.047	-0.012	1.001	17886		0.73(0.40-1.20)		124	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.215	9.336	-0.121	1.083	121153	0.1141	Target=14.94	114	6076	
913.00 > 169.00	9.215	9.336	-0.121	1.083	8108		14.94(7.47-22.41)		543	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00222 Amount Added: 50.00 Units: uL

Report Date: 17-Feb-2025 18:30:58 Chrom Revision: 2.3 14-Feb-2025 22:17:30

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-08.d

Injection Date: 17-Feb-2025 17:34:12 Instrument ID: 30576

Lims ID: LLCS 410-606716/3-A

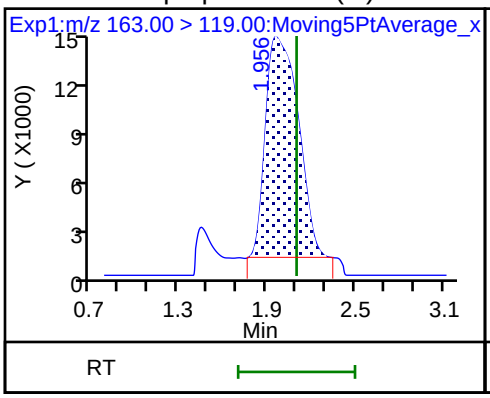
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 13 Worklist Smp#: 81

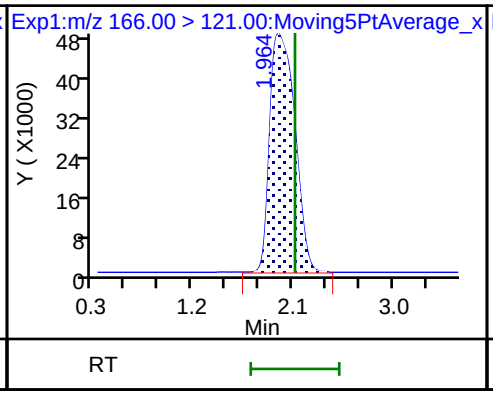
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

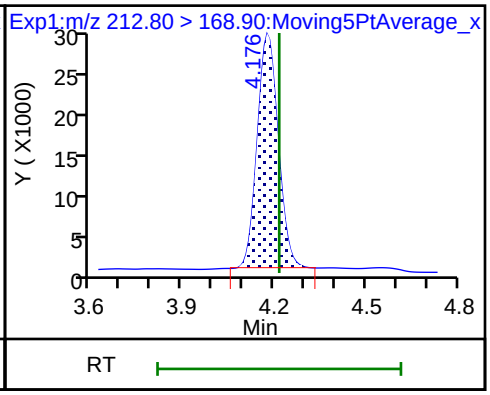
2 Perfluoropropionic acid (M)



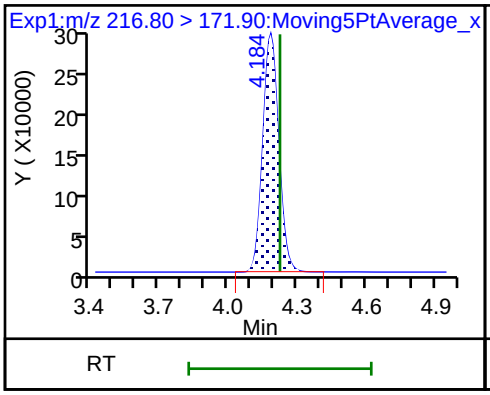
D 1 13C3PFPrA



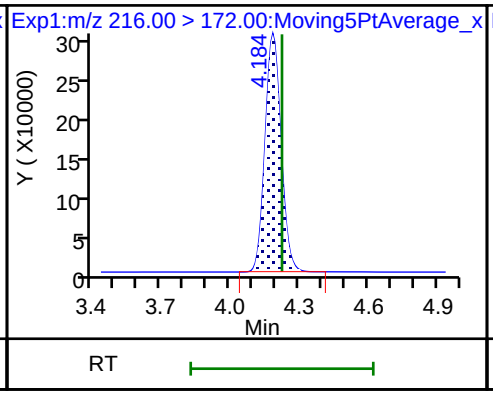
5 PFBA



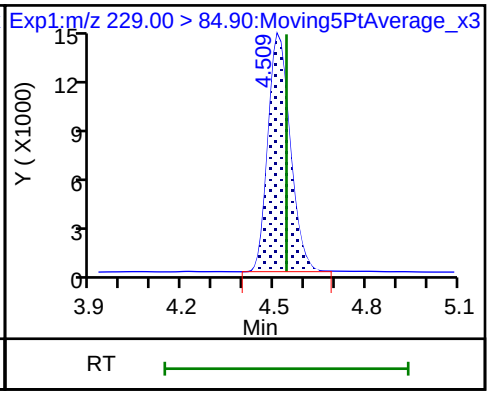
D 3 13C4-PFBA



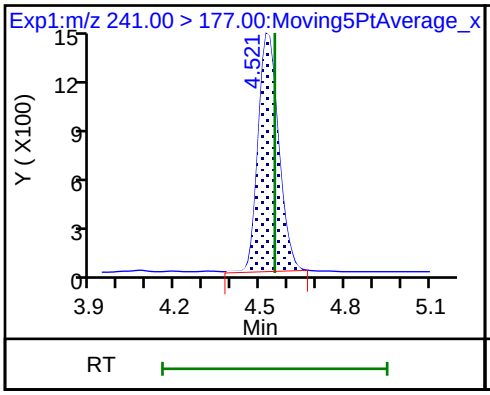
* 4 13C3PFBA



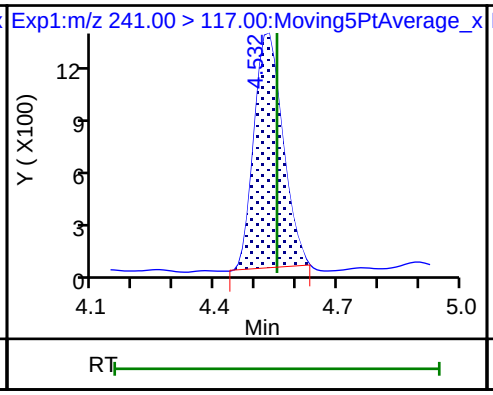
6 PFMPA



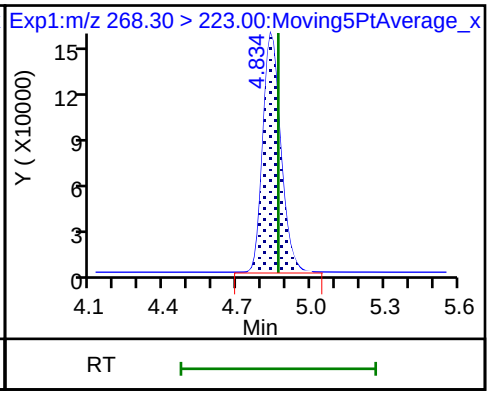
7 3:3 FTCA



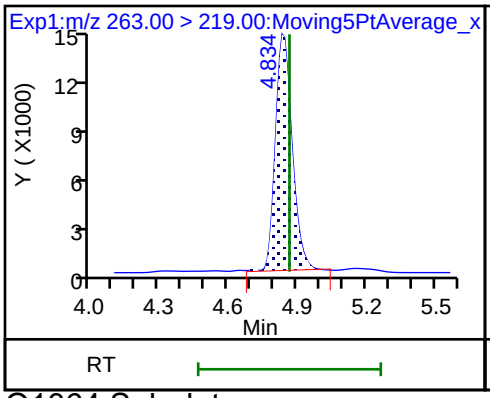
7 3:3 FTCA



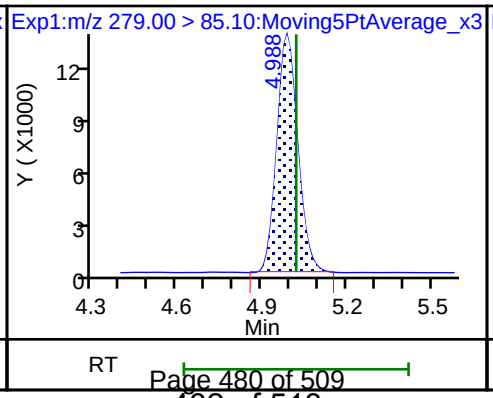
D 8 13C5 PFPeA



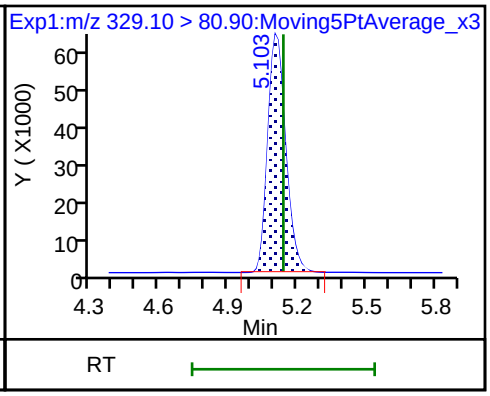
9 PFPA



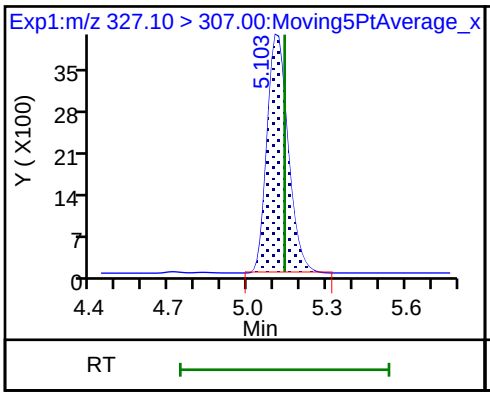
10 PFMBA



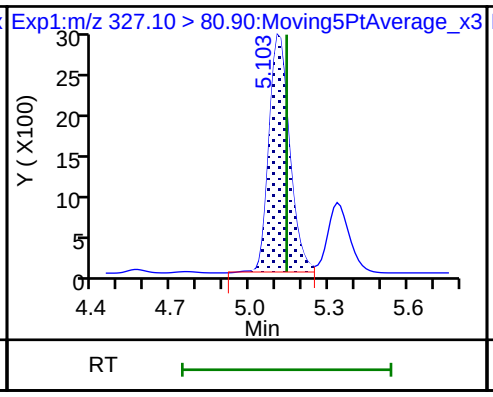
D 11 13C2-4:2FTS



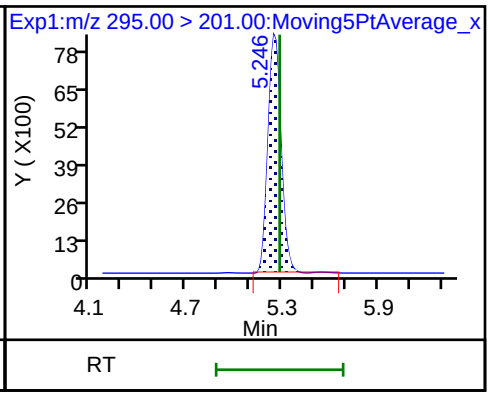
12 4:2FTS



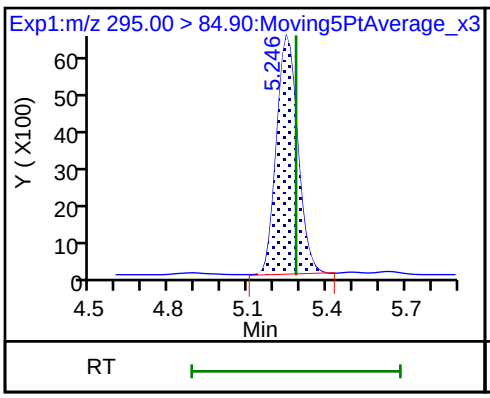
12 4:2FTS



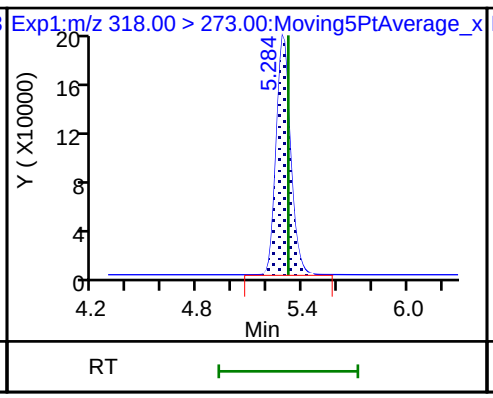
14 NFDHA



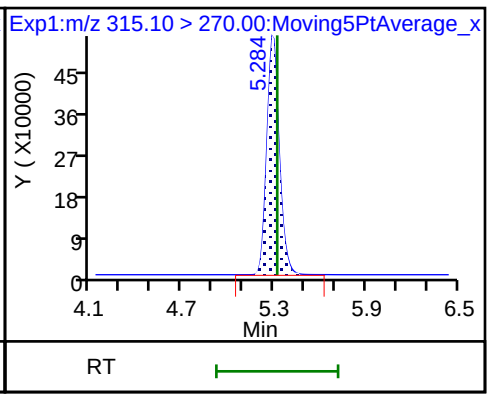
14 NFDHA



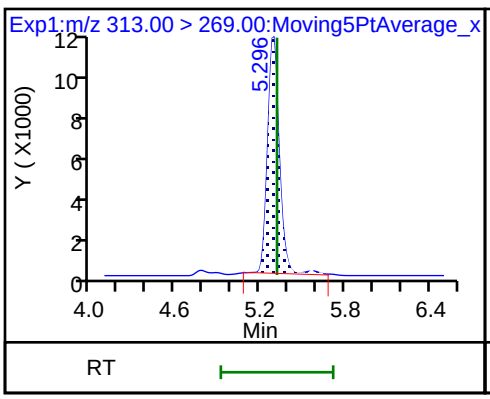
D 15 13C5 PFHxA



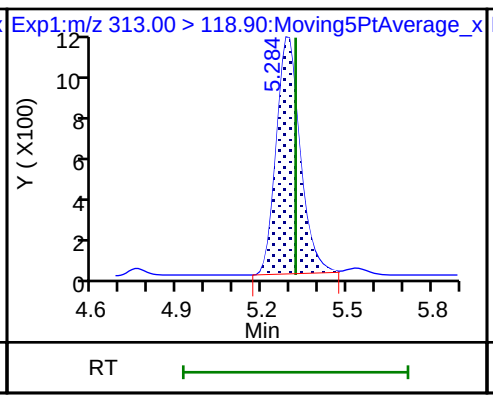
* 16 13C2 PFHxA



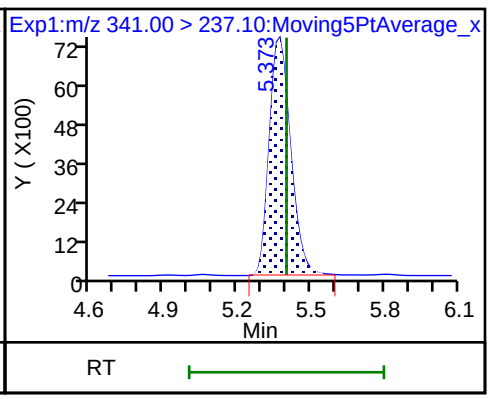
17 PFHxA



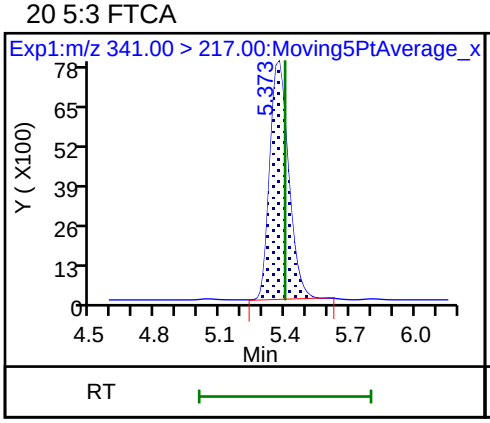
17 PFHxA



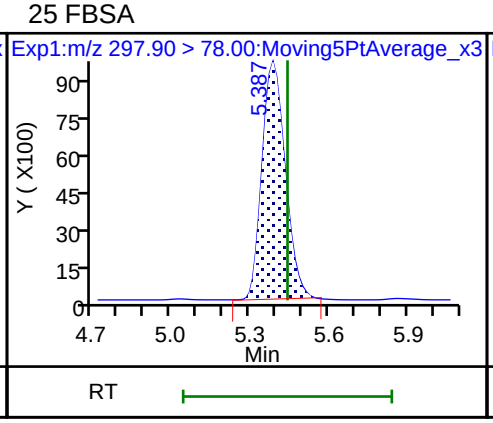
20 5:3 FTCA



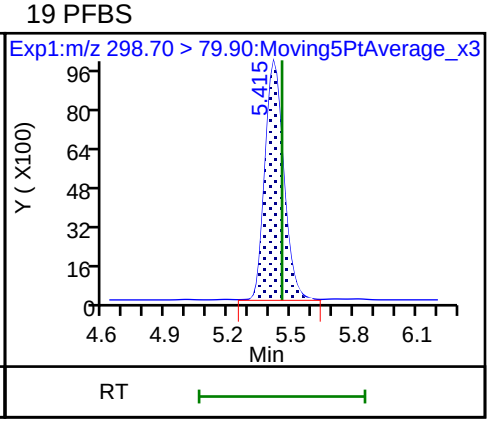
20 5:3 FTCA



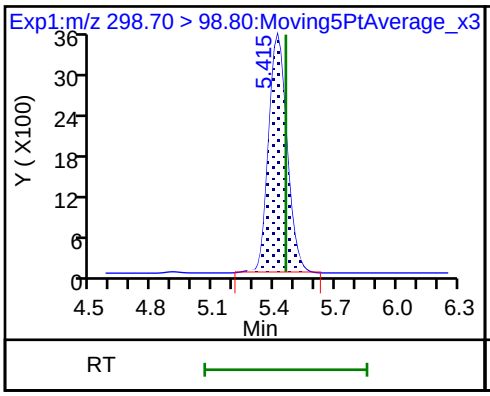
25 FBSA



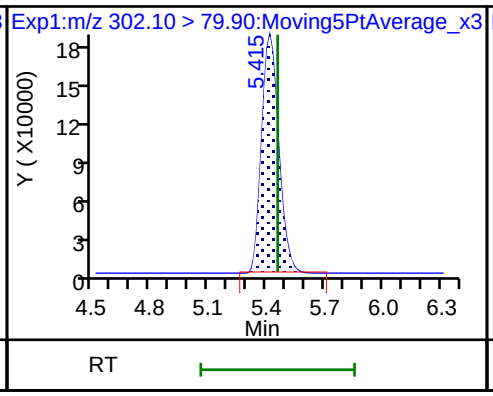
19 PFBS



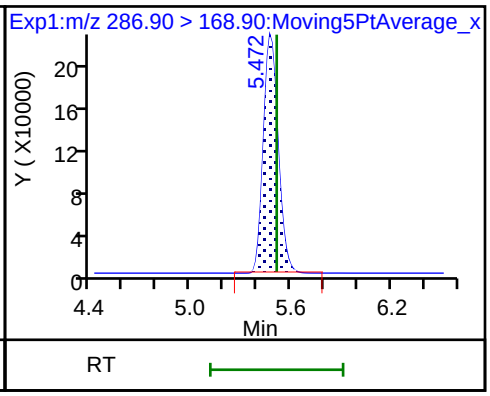
19 PFBS



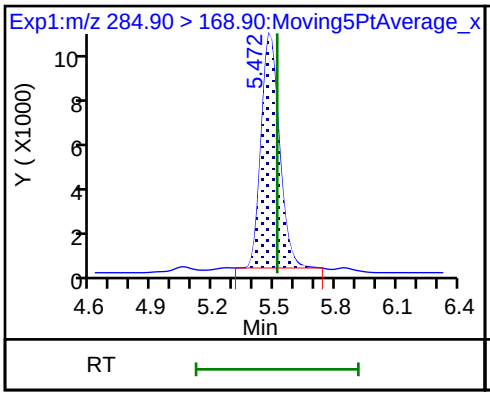
D 18 13C3 PFBS



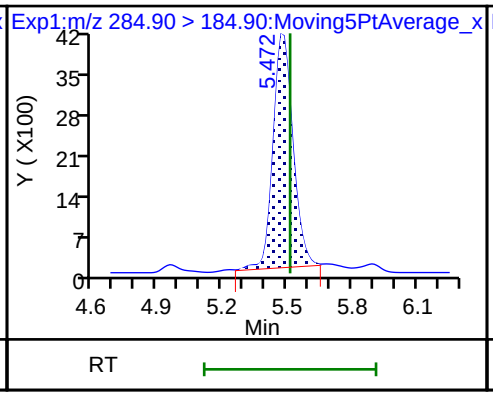
D 21 13C3 HFPO-DA



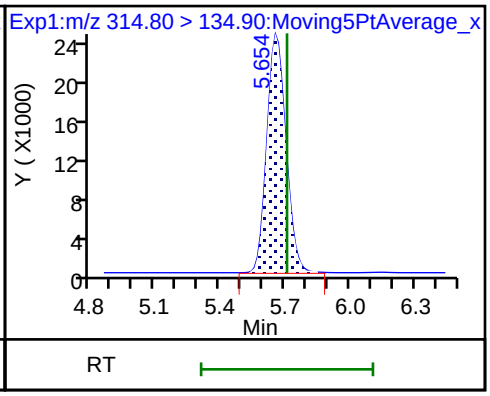
22 HFPO-DA



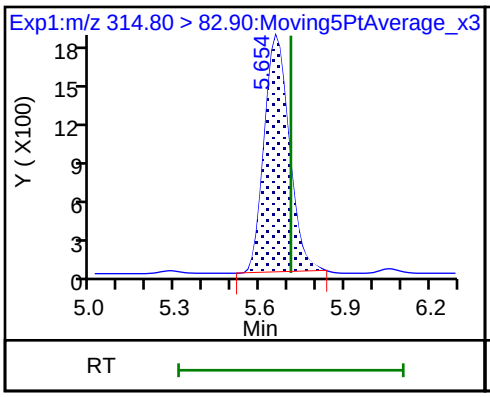
22 HFPO-DA



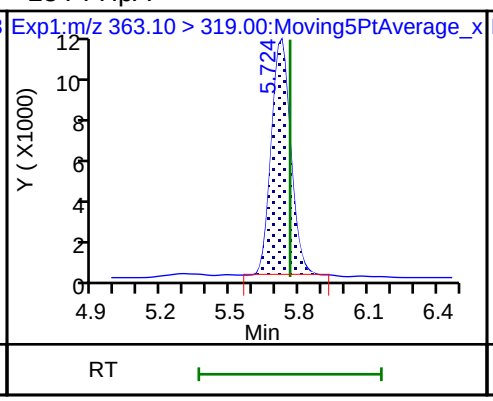
24 PFEESA



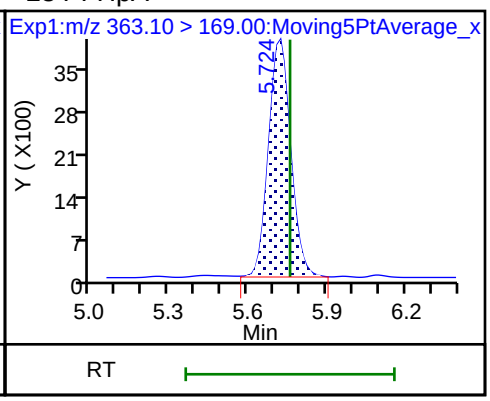
24 PFEESA



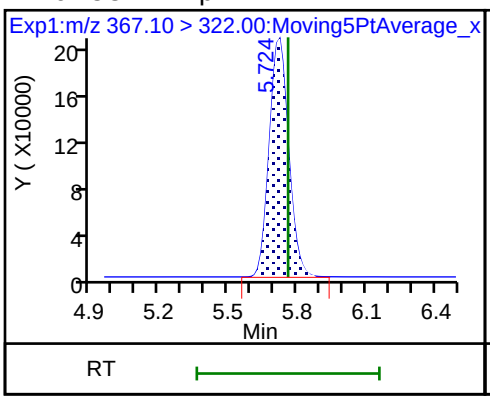
28 PFHpA



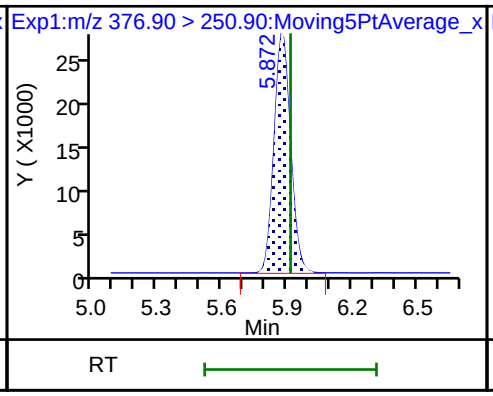
28 PFHpA



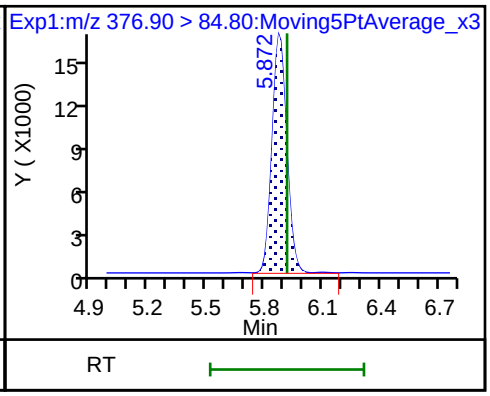
D 26 13C4 PFHpA



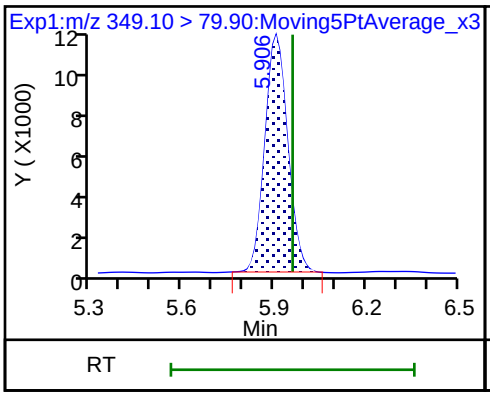
30 ADONA



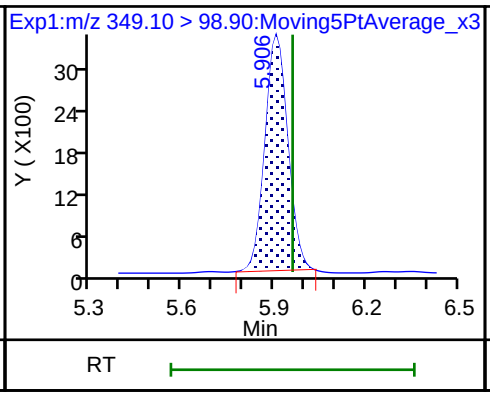
30 ADONA



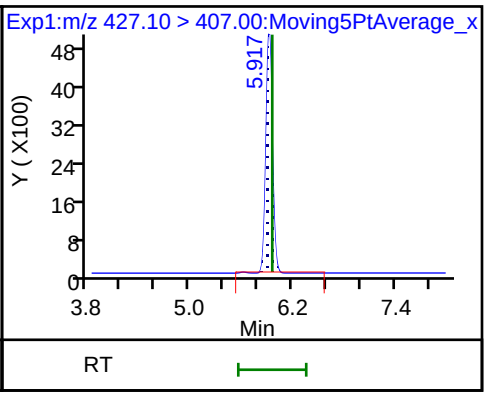
29 PFPeS



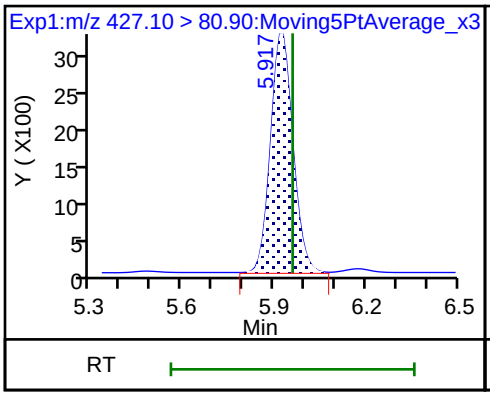
29 PFPeS



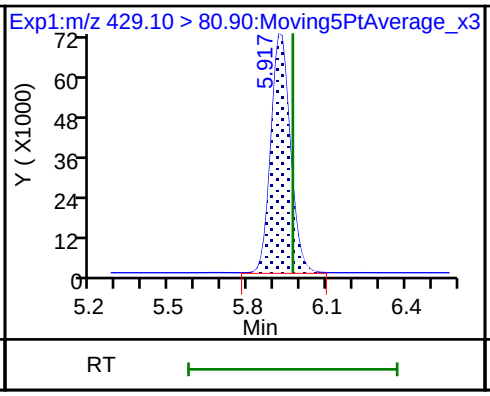
32 6:2FTS



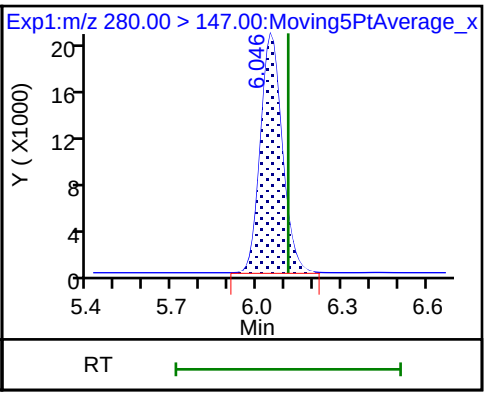
32 6:2FTS



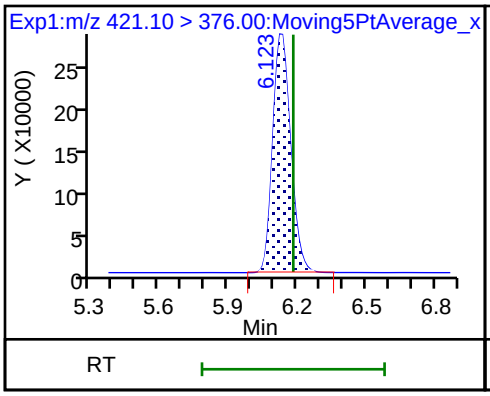
D 31 13C2-6:2FTS



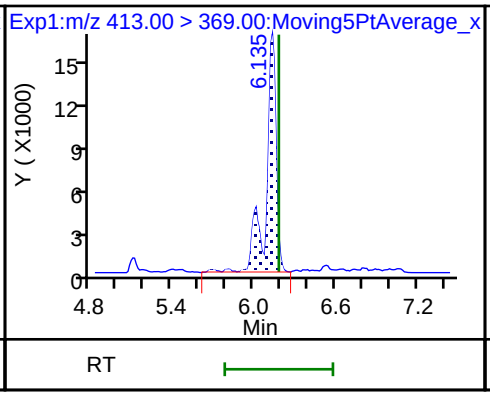
33 BTS



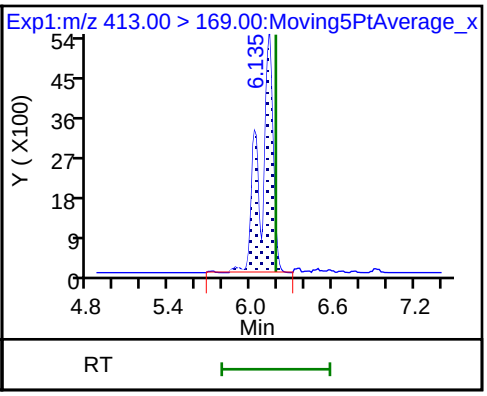
D 34 13C8 PFOA



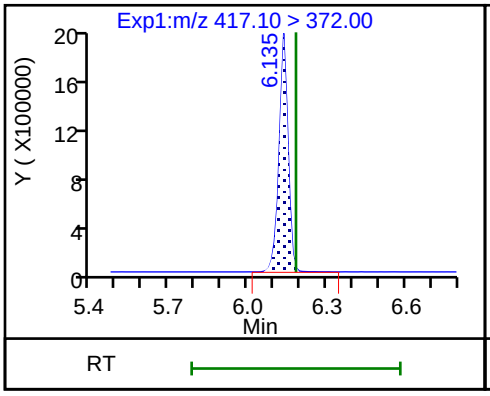
36 PFOA



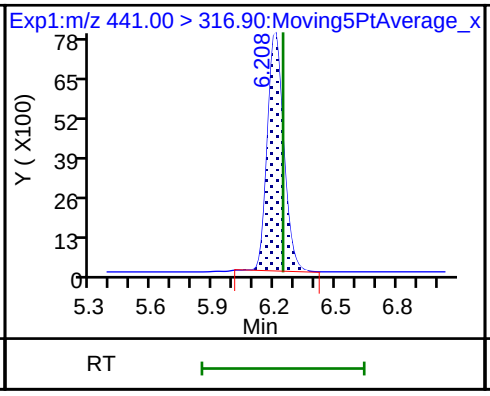
36 PFOA



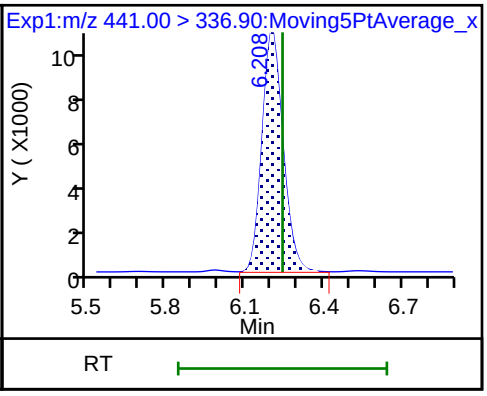
* 35 13C4 PFOA



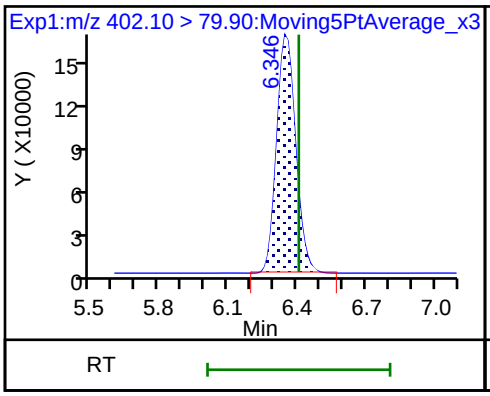
39 7:3 FTCA



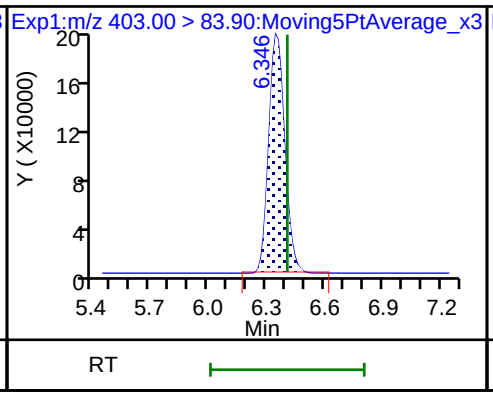
39 7:3 FTCA



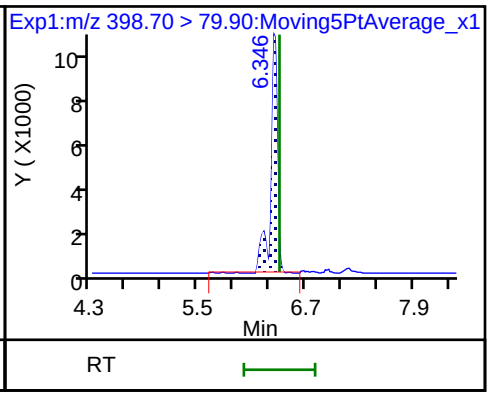
D 38 13C3 PFHxS



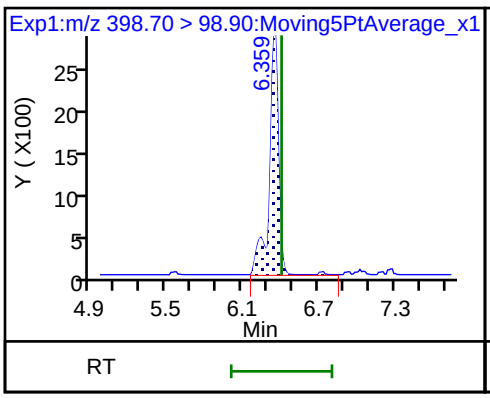
* 37 18O2 PFHxS



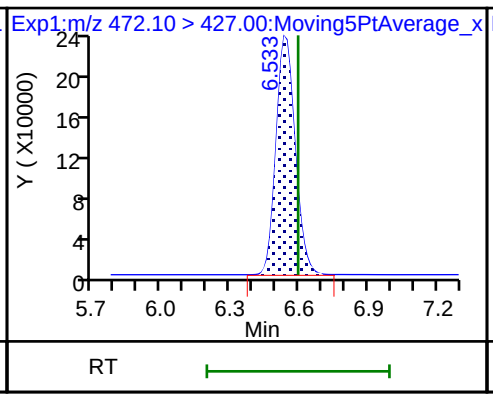
40 PFHxS



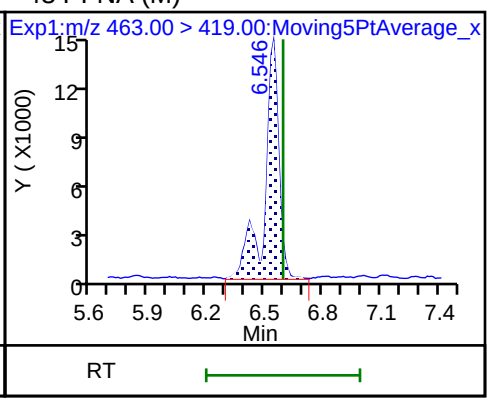
40 PFHxS



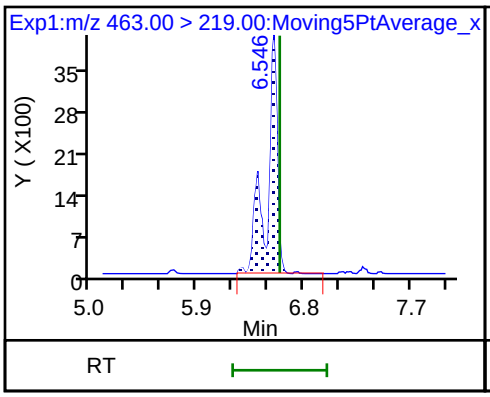
D 41 13C9 PFNA



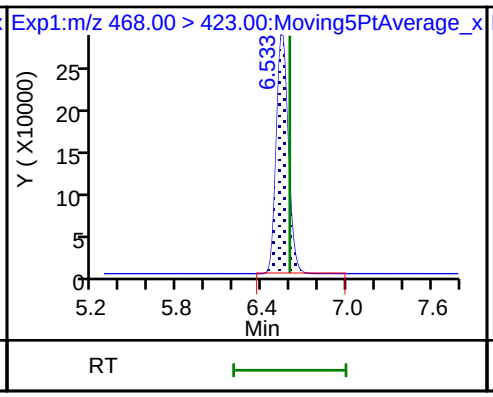
43 PFNA (M)



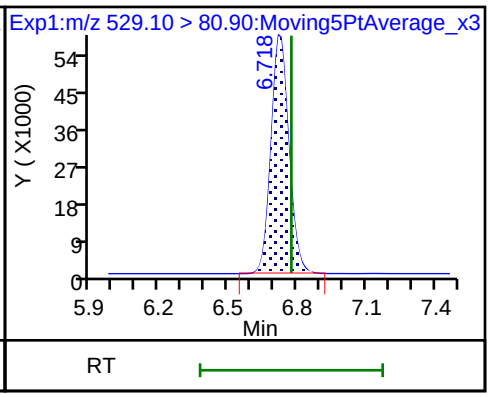
43 PFNA



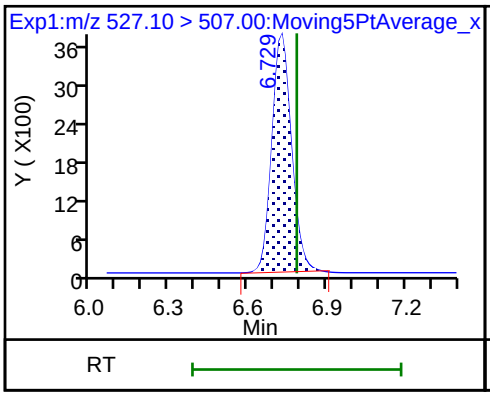
* 42 13C5 PFNA



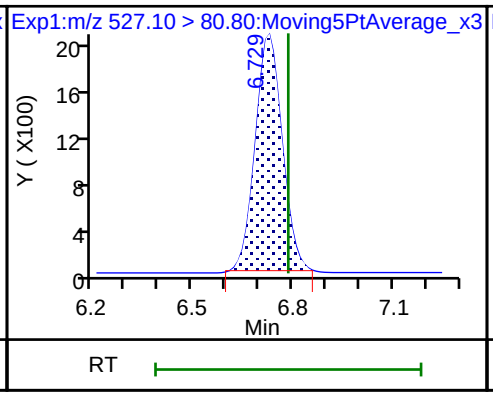
D 45 13C2-8:2FTS



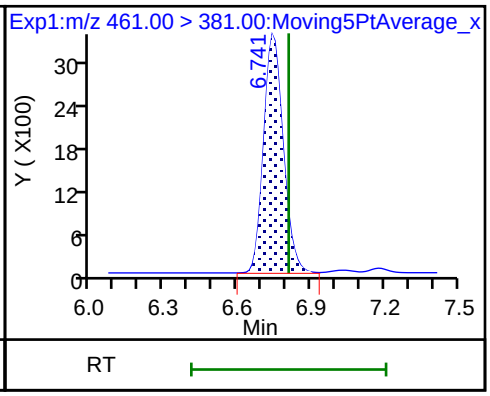
46 8:2FTS



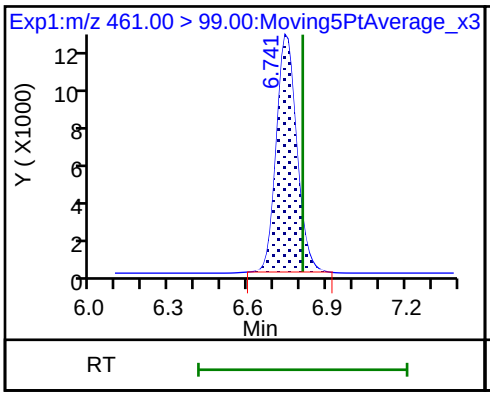
46 8:2FTS



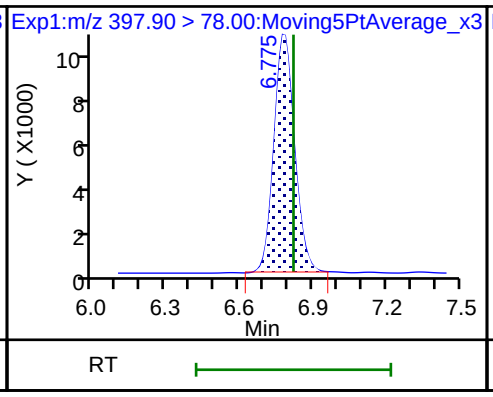
44 PFECHS



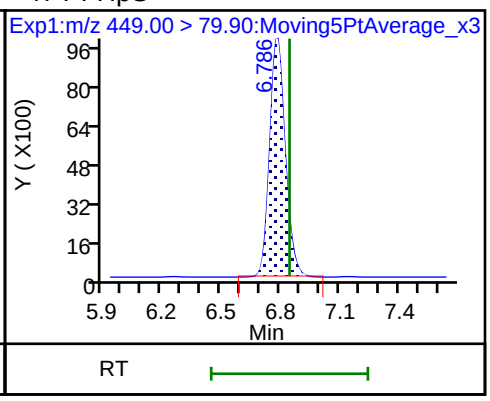
44 PFECHS



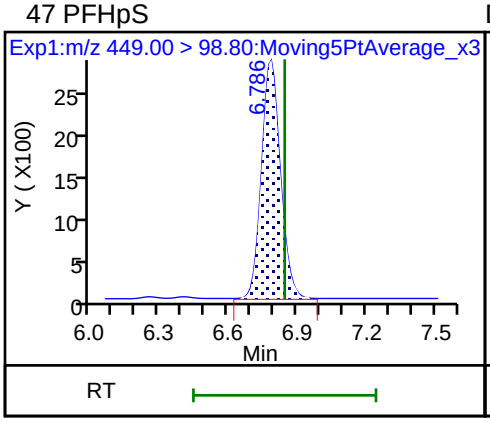
48 FHxSA



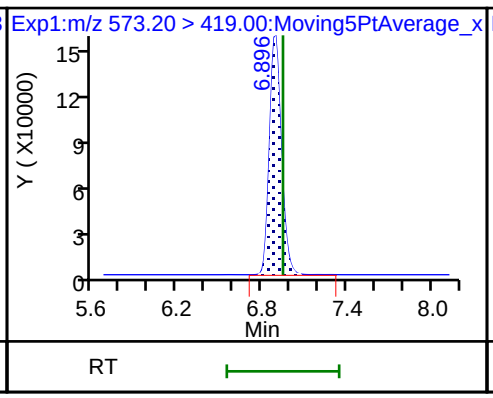
47 PFHpS



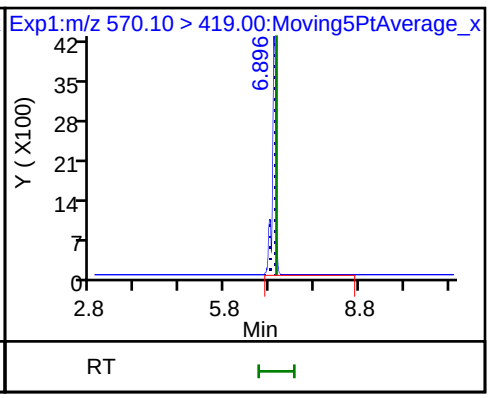
47 PFHpS



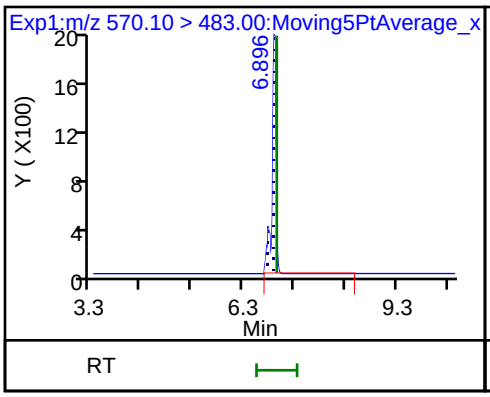
D 49 d3-NMeFOSAA



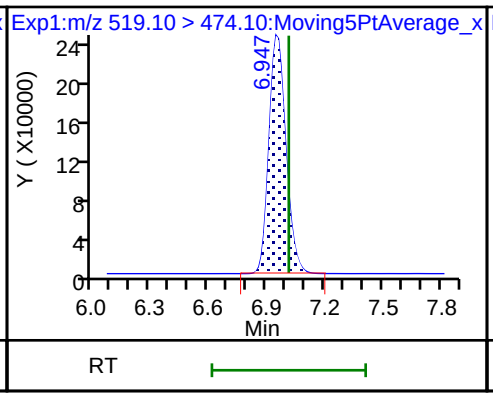
50 NMeFOSAA



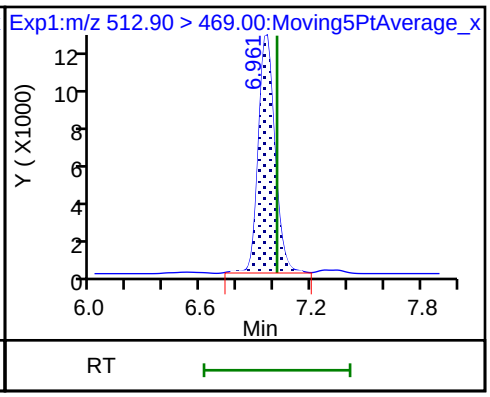
50 NMeFOSAA



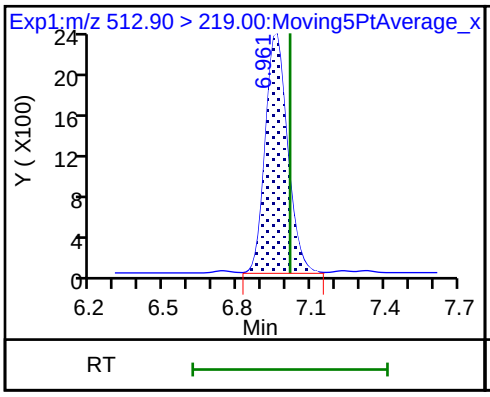
D 51 13C6 PFDA



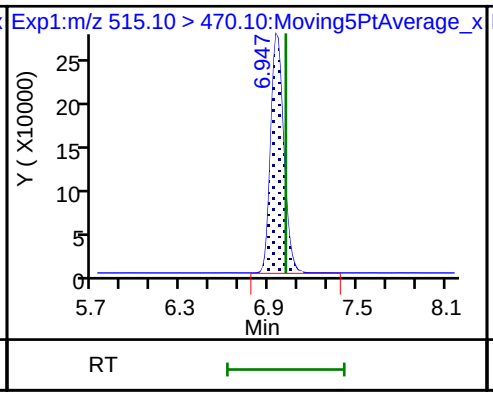
53 PFDA



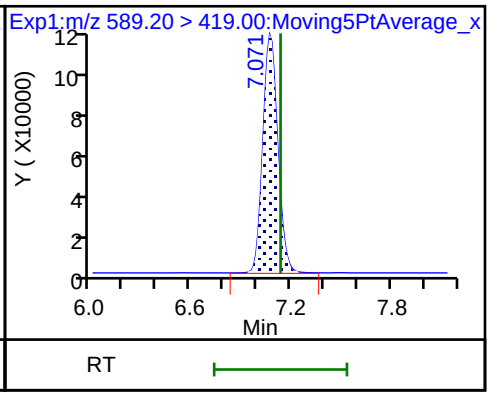
53 PFDA



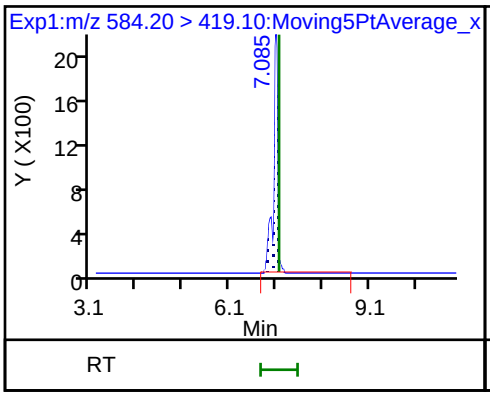
* 52 13C2 PFDA



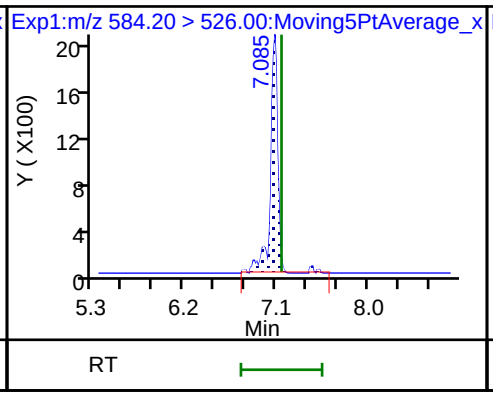
D 54 d5-NEtFOSAA



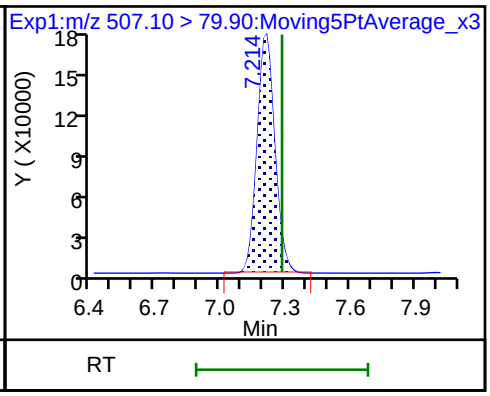
55 NEtFOSAA



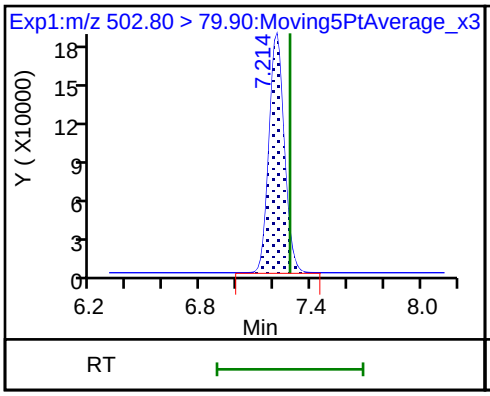
55 NEtFOSAA



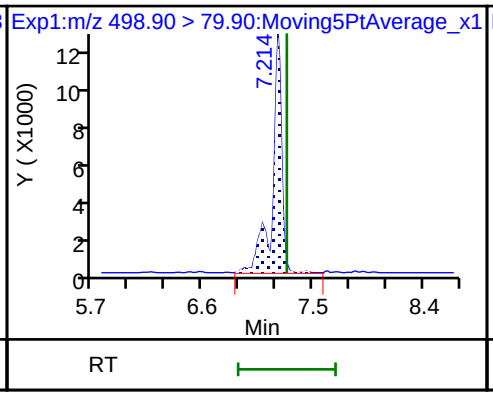
D 56 13C8 PFOS



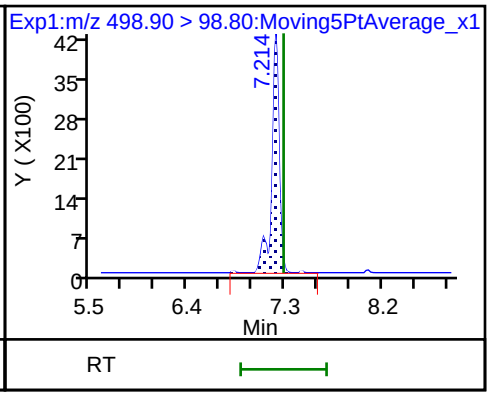
* 57 13C4 PFOS



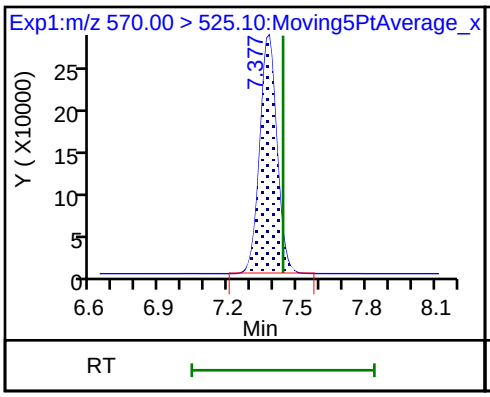
58 PFOS



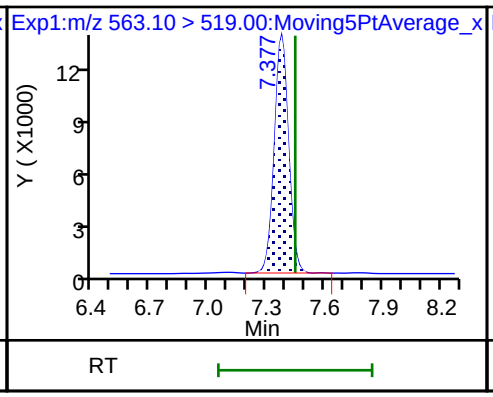
58 PFOS



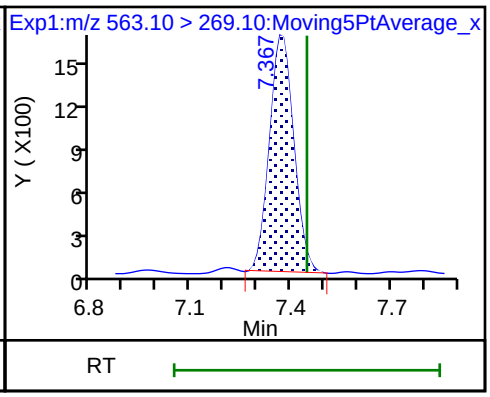
D 59 13C7 PFUnA



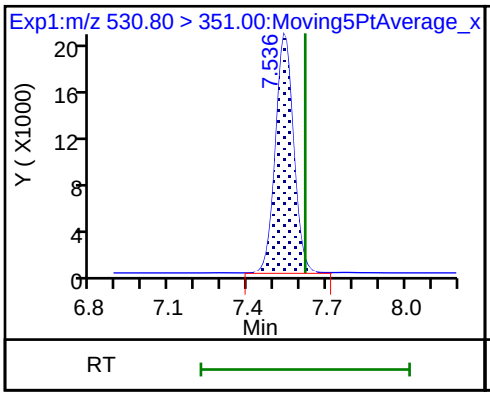
60 PFUnA



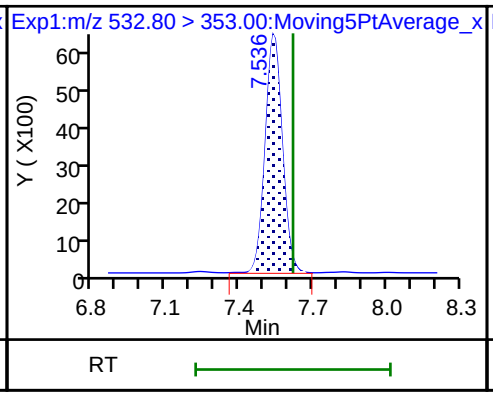
60 PFUnA



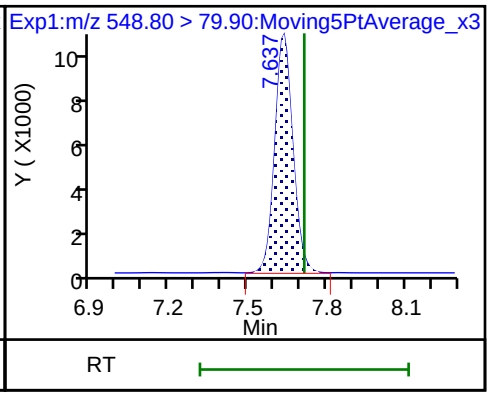
61 9ClFOS



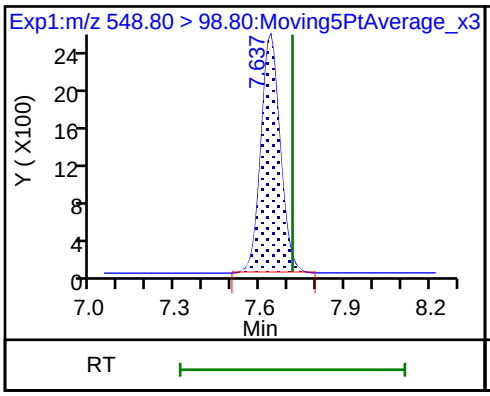
61 9ClFOS



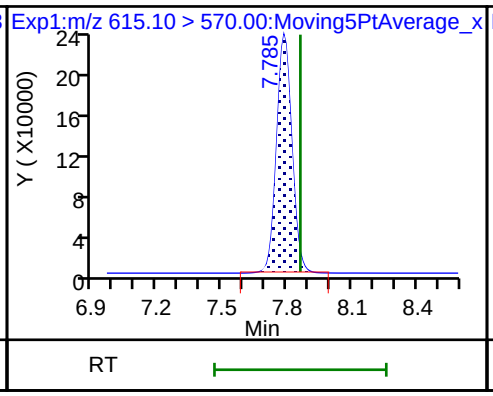
62 PFNS



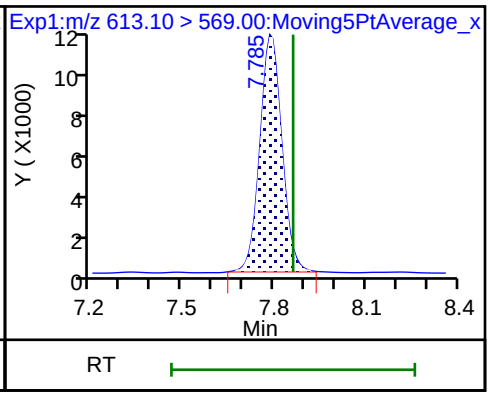
62 PFNS



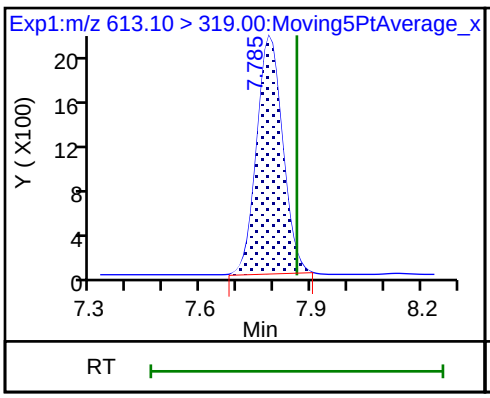
D 82 PFDoA



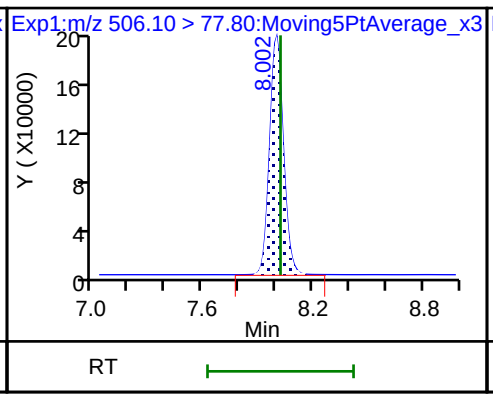
63 PFDoA



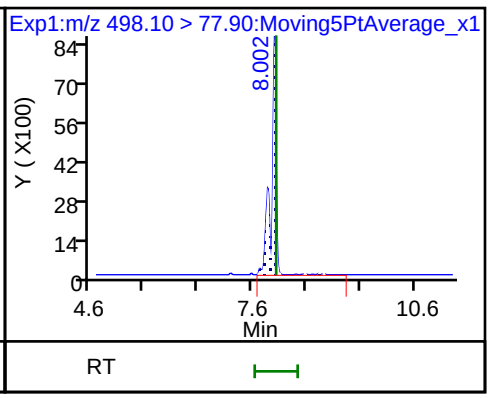
63 PFDoA



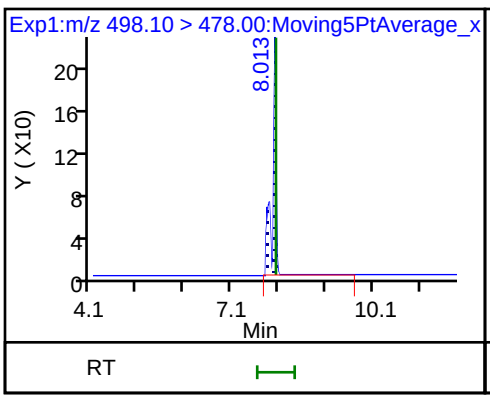
D 64 13C8 FOSA



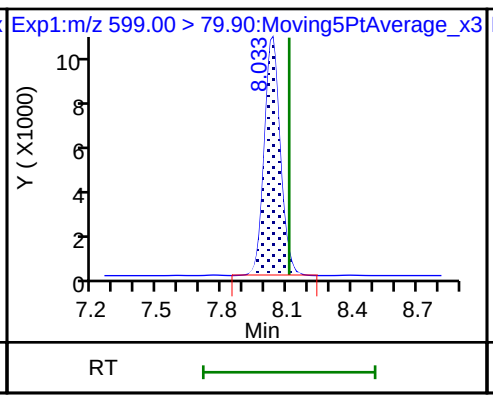
65 PFOSA



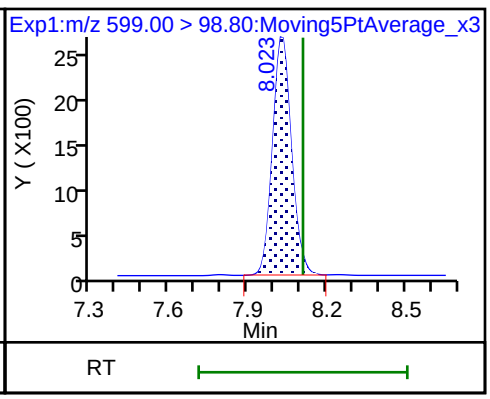
65 PFOSA



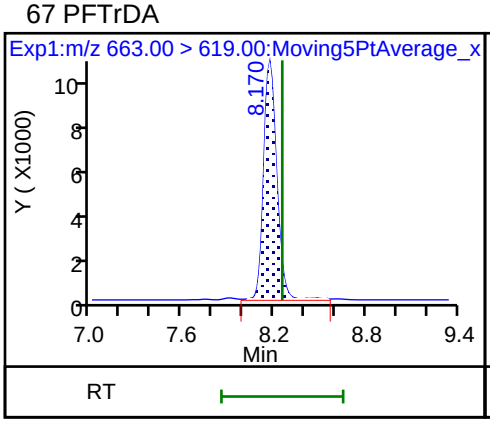
66 PFDS



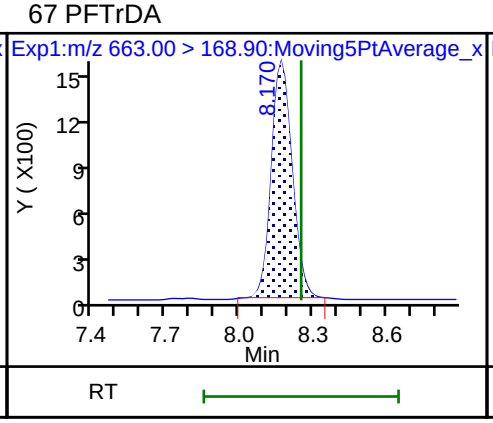
66 PFDS



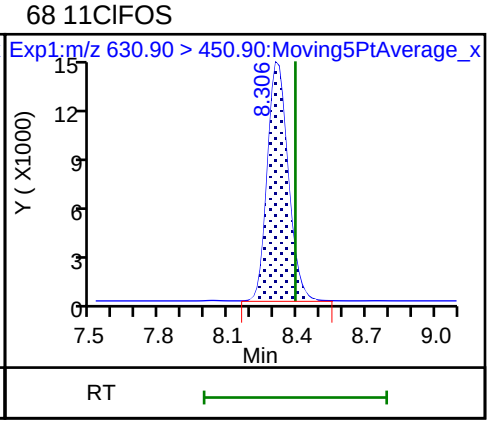
67 PFTrDA



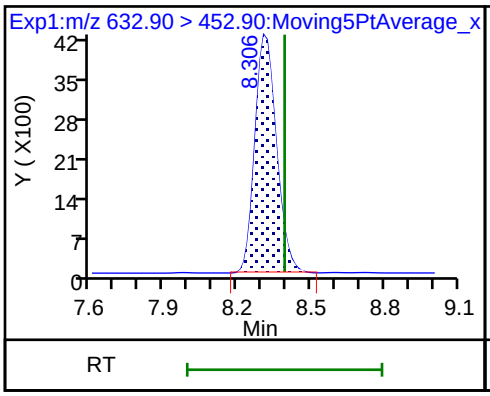
67 PFTrDA



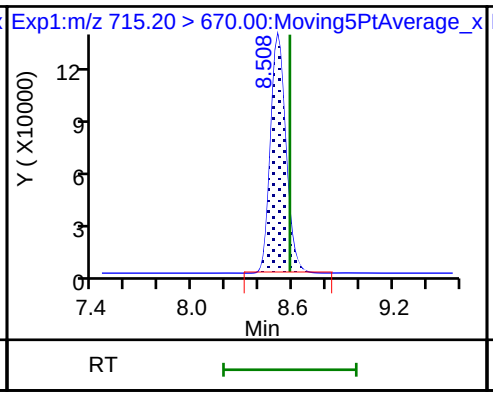
68 11ClFOS



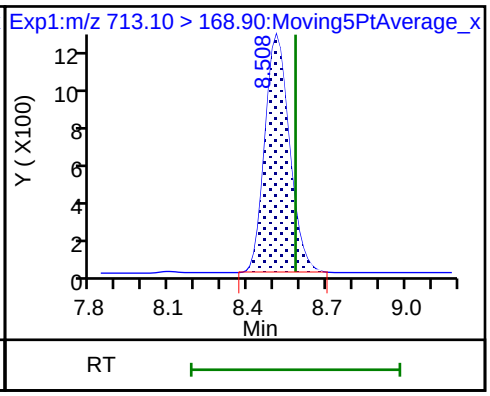
68 11ClFOS



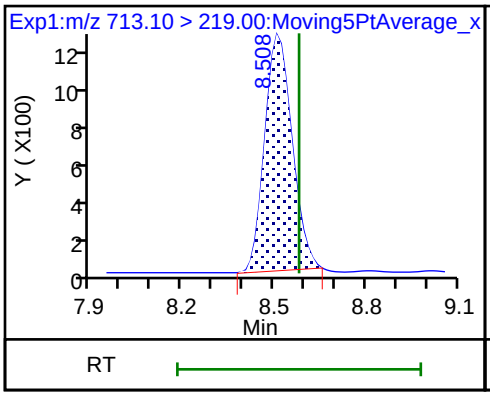
D 69 13C2 PFTeDA



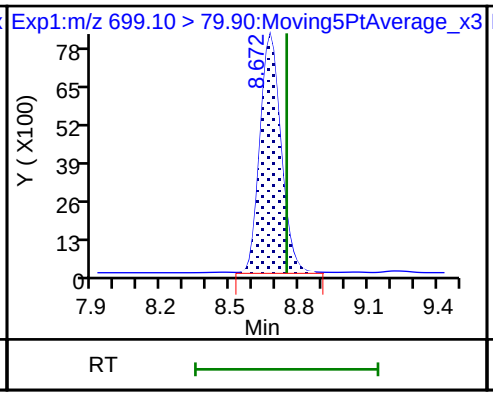
70 PFTeDA



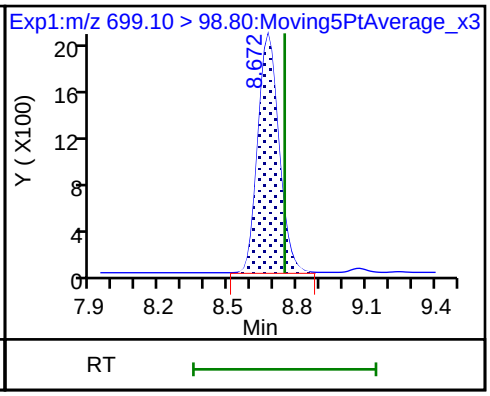
70 PFTeDA



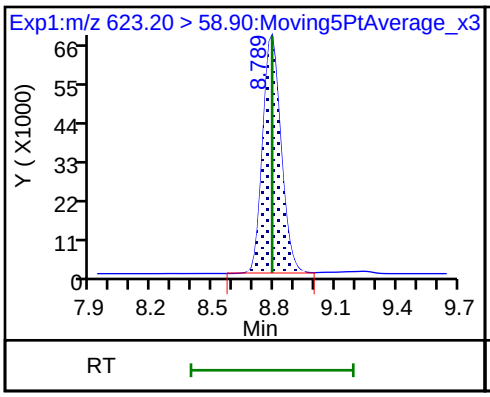
73 PFDoS



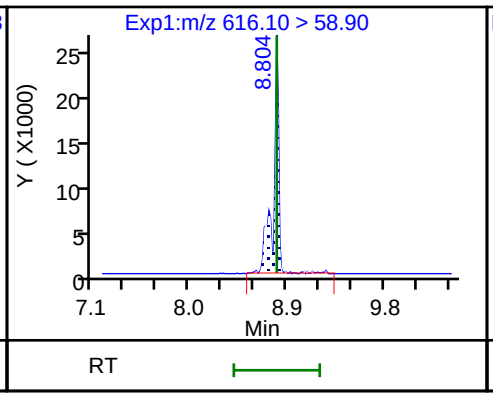
73 PFDoS



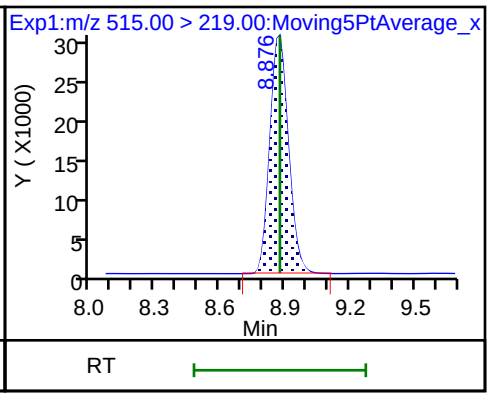
D 71 d7-N-Me-FOSE



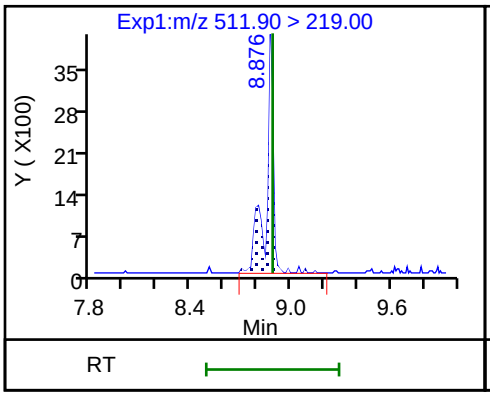
72 N-MeFOSE-M



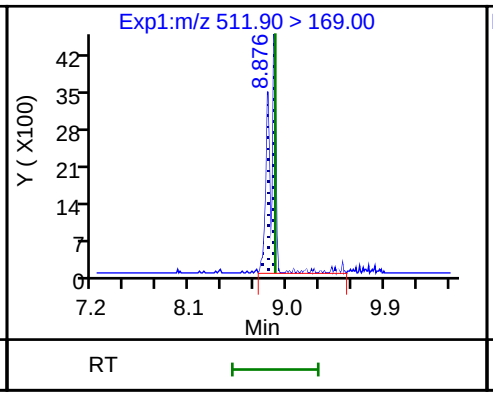
D 74 d3-NMePFOSA



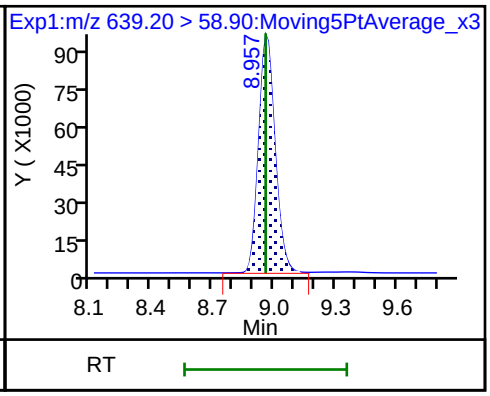
75 NMeFOSA



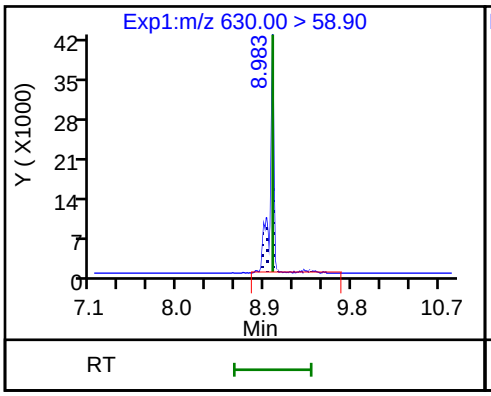
75 NMeFOSA



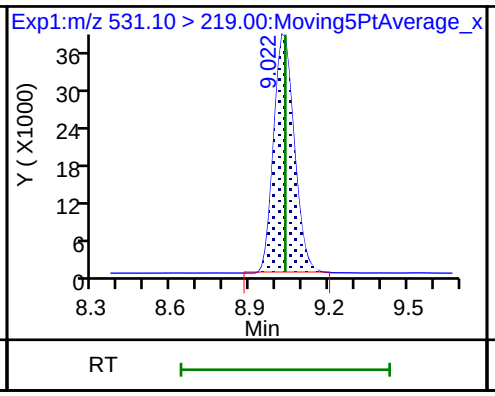
D 76 d9-N-EtFOSE



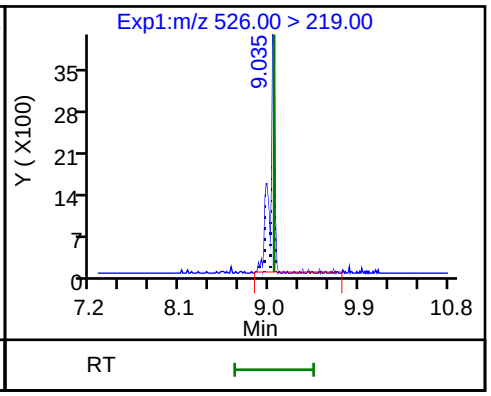
77 N-EtFOSE-M



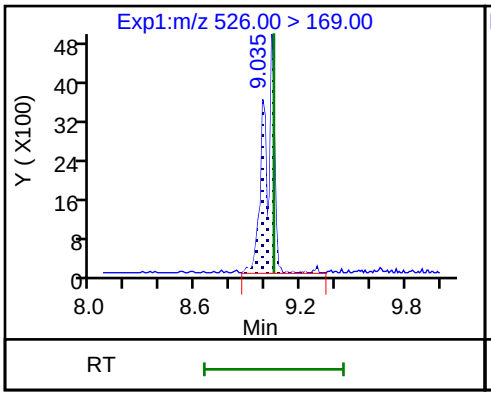
D 78 d5-NEtPFOSA



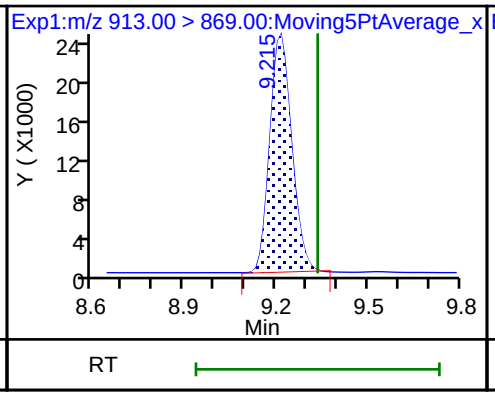
79 N-EtFOSA-M



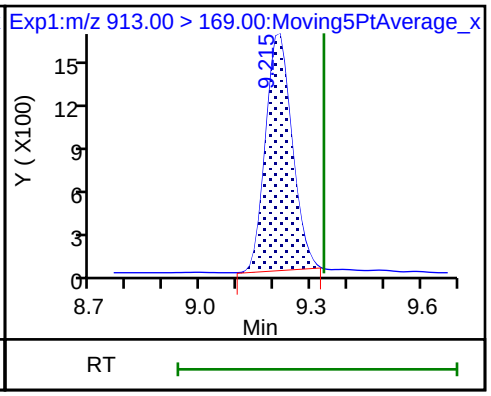
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

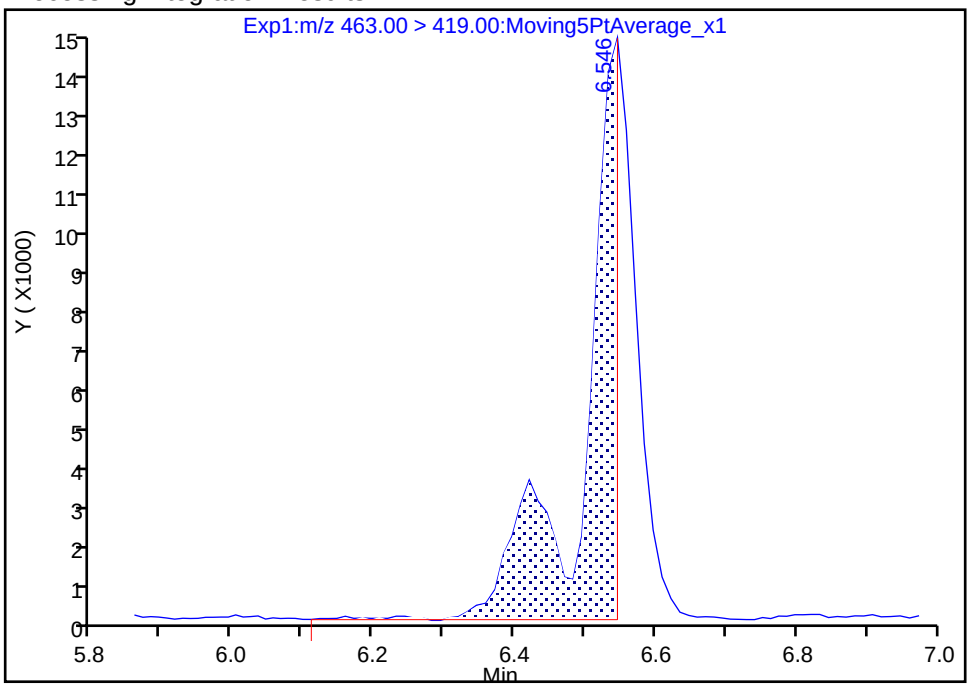
Data File:	\\chromfs\Lancaster\ChromData\30576\20250217-138392.b\25FEB17W-08.d				
Injection Date:	17-Feb-2025 17:34:12	Instrument ID:	30576		
Lims ID:	LLCS 410-606716/3-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	13	Worklist Smp#:	81
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

43 PFNA, CAS: 375-95-1

Signal: 1

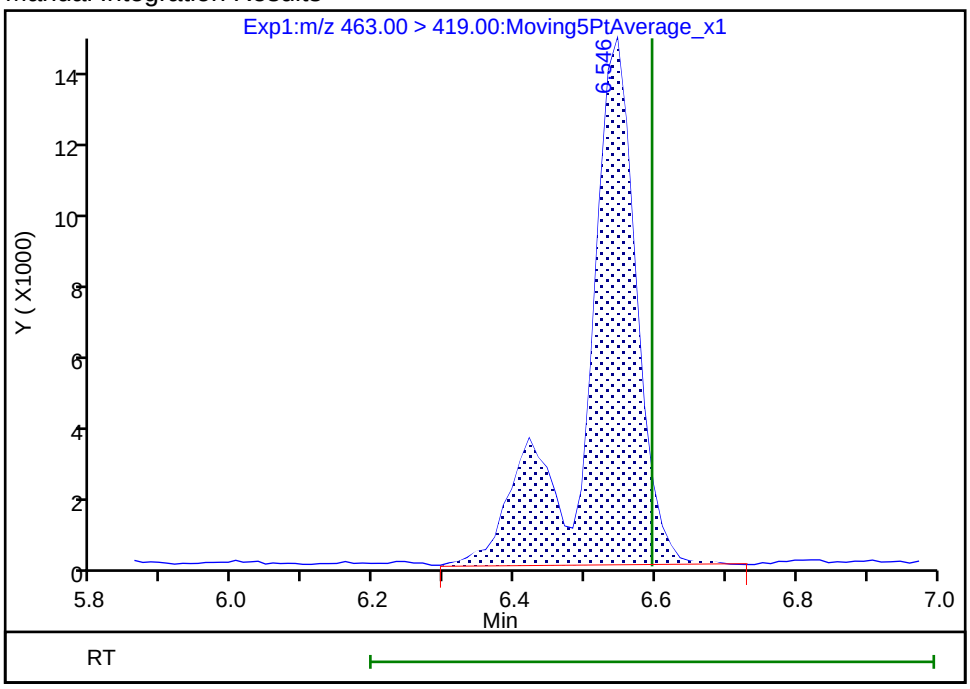
Processing Integration Results

RT: 6.55
Area: 45992
Amount: 0.082342
Amount Units: ng/ml



Manual Integration Results

RT: 6.55
Area: 73685
Amount: 0.131922
Amount Units: ng/ml



Reviewer: JU9U, 17-Feb-2025 18:22:03 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225MS MS
Lab Sample ID: 410-207884-3 MS

Matrix: Water
Lab File ID: 25FEB17W-12.d

Analysis Method: 1633
Date Collected: 02/12/2025 11:45

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 142.2(mL)
Date Analyzed: 02/17/2025 18:28

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	85.6		3.5	0.97
2706-90-3	Perfluoropentanoic acid	50.2		1.8	0.53
307-24-4	Perfluorohexanoic acid	45.6		1.8	0.44
375-85-9	Perfluoroheptanoic acid	45.9		1.8	0.70
335-67-1	Perfluorooctanoic acid	54.9		1.8	0.79
375-95-1	Perfluorononanoic acid	47.3		1.8	0.44
335-76-2	Perfluorodecanoic acid	40.5		1.8	0.44
2058-94-8	Perfluoroundecanoic acid	36.9		1.8	0.44
307-55-1	Perfluorododecanoic acid	39.5		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	35.8		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	39.8		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	38.5		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid	36.8		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	40.9		1.8	0.70
375-92-8	Perfluoroheptanesulfonic acid	34.6		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	49.3		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	36.1		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	37.6		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	35.8		1.8	0.53
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	79.3		3.5	0.88
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	76.1		3.5	0.88
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	74.3		3.5	0.88
754-91-6	Perfluorooctanesulfonamide	37.3		1.8	0.44
31506-32-8	NMeFOSA	37.5		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	39.8		1.8	0.44
2355-31-9	NMeFOSAA	35.4		1.8	0.44
2991-50-6	NEtFOSAA	38.5		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225MS MS Lab Sample ID: 410-207884-3 MS

Matrix: Water Lab File ID: 25FEB17W-12.d

Analysis Method: 1633 Date Collected: 02/12/2025 11:45

Extraction Method: 1633 Date Extracted: 02/17/2025 10:23

Sample wt/vol: 142.2(mL) Date Analyzed: 02/17/2025 18:28

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840 Units: ng/L

Preparation Batch No.: 606716 Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	184		8.8	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	179		8.8	2.2
13252-13-6	HFPO-DA	32.3		1.8	0.66
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	32.0		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid	39.5		1.8	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	38.1		1.8	0.44
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	37.4		1.8	0.44
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	39.4		1.8	0.44
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	39.9		1.8	0.44
113507-82-7	PFEESA	31.9		1.8	0.44
356-02-5	3:3 FTCA	73.6		3.5	0.88
914637-49-3	5:3 FTCA	169		8.8	2.5
812-70-4	7:3 FTCA	152		8.8	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225MS MS
Lab Sample ID: 410-207884-3 MS

Matrix: Water
Lab File ID: 25FEB17W-12.d

Analysis Method: 1633
Date Collected: 02/12/2025 11:45

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 142.2(mL)
Date Analyzed: 02/17/2025 18:28

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	81.9		5-130
STL01893	13C5 PFPeA	100	cn	40-130
STL02577	13C5 PFHxA	105	cn	40-130
STL01892	13C4 PFHpA	99.6	cn	40-130
STL01052	13C8 PFOA	76.2		40-130
STL02578	13C9 PFNA	73.5		40-130
STL02579	13C6 PFDA	75.7		40-130
STL02580	13C7 PFUnA	82.9	cn	30-130
STL02116	13C2 PFTeDA	77.4	cn	10-130
STL02337	13C3 PFBS	80.9		40-135
STL02581	13C3 PFHxS	77.0		40-130
STL01054	13C8 PFOS	85.4		40-130
STL01056	13C8 FOSA	75.8		40-130
STL02118	d3-NMeFOSAA	79.4		40-170
STL02117	d5-NEtFOSAA	80.7		25-135
STL02395	M2-4:2 FTS	70.4		40-200
STL02279	M2-6:2 FTS	66.1		40-200
STL02280	M2-8:2 FTS	66.1		40-300
STL02255	13C3 HFPO-DA	96.1	cn	40-130
STL02277	d7-N-MeFOSE-M	79.1		10-130
STL02278	d9-N-EtFOSE-M	79.0		10-130
STL02704	d5-NEtPFOSA	50.9		10-130
STL02705	d3-NMePFOSA	53.7		10-130
STL00998	13C2 PFDoA	76.0		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225MSD MSD
Lab Sample ID: 410-207884-3 MSD

Matrix: Water
Lab File ID: 25FEB17W-13.d

Analysis Method: 1633
Date Collected: 02/12/2025 11:45

Extraction Method: 1633
Date Extracted: 02/17/2025 10:23

Sample wt/vol: 142.1(mL)
Date Analyzed: 02/17/2025 18:42

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840
Units: ng/L

Preparation Batch No.: 606716
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	80.0		3.5	0.97
2706-90-3	Perfluoropentanoic acid	50.5		1.8	0.53
307-24-4	Perfluorohexanoic acid	46.3		1.8	0.44
375-85-9	Perfluoroheptanoic acid	47.4		1.8	0.70
335-67-1	Perfluorooctanoic acid	53.4		1.8	0.79
375-95-1	Perfluorononanoic acid	49.0		1.8	0.44
335-76-2	Perfluorodecanoic acid	37.9		1.8	0.44
2058-94-8	Perfluoroundecanoic acid	35.8		1.8	0.44
307-55-1	Perfluorododecanoic acid	39.0		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	37.7		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	39.7		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	38.6		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid	36.1		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	42.7		1.8	0.70
375-92-8	Perfluoroheptanesulfonic acid	33.2		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	42.4		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	33.1		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	32.2		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	32.3		1.8	0.53
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	77.0		3.5	0.88
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	75.0		3.5	0.88
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	76.2		3.5	0.88
754-91-6	Perfluorooctanesulfonamide	36.5		1.8	0.44
31506-32-8	NMeFOSA	37.4		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	35.4		1.8	0.44
2355-31-9	NMeFOSAA	37.0		1.8	0.44
2991-50-6	NEtFOSAA	37.8		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225MSD MSD Lab Sample ID: 410-207884-3 MSD

Matrix: Water Lab File ID: 25FEB17W-13.d

Analysis Method: 1633 Date Collected: 02/12/2025 11:45

Extraction Method: 1633 Date Extracted: 02/17/2025 10:23

Sample wt/vol: 142.1(mL) Date Analyzed: 02/17/2025 18:42

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840 Units: ng/L

Preparation Batch No.: 606716 Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	182		8.8	2.2
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	169		8.8	2.2
13252-13-6	HFPO-DA	29.8		1.8	0.66
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	31.2		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid	36.3		1.8	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	36.5		1.8	0.44
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	36.4		1.8	0.44
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	38.9		1.8	0.44
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	38.0		1.8	0.44
113507-82-7	PFEESA	33.3		1.8	0.44
356-02-5	3:3 FTCA	68.8		3.5	0.88
914637-49-3	5:3 FTCA	162		8.8	2.5
812-70-4	7:3 FTCA	151		8.8	2.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Client Sample ID: MW-33D-021225MSD MSD Lab Sample ID: 410-207884-3 MSD

Matrix: Water Lab File ID: 25FEB17W-13.d

Analysis Method: 1633 Date Collected: 02/12/2025 11:45

Extraction Method: 1633 Date Extracted: 02/17/2025 10:23

Sample wt/vol: 142.1(mL) Date Analyzed: 02/17/2025 18:42

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 606840 Units: ng/L

Preparation Batch No.: 606716 Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	81.8		5-130
STL01893	13C5 PFPeA	111	cn	40-130
STL02577	13C5 PFHxA	110	cn	40-130
STL01892	13C4 PFHpA	107	cn	40-130
STL01052	13C8 PFOA	77.1		40-130
STL02578	13C9 PFNA	72.0		40-130
STL02579	13C6 PFDA	78.2		40-130
STL02580	13C7 PFUnA	87.0	cn	30-130
STL02116	13C2 PFTeDA	80.8	cn	10-130
STL02337	13C3 PFBS	80.5		40-135
STL02581	13C3 PFHxS	76.8		40-130
STL01054	13C8 PFOS	92.5		40-130
STL01056	13C8 FOSA	76.1		40-130
STL02118	d3-NMeFOSAA	77.1		40-170
STL02117	d5-NEtFOSAA	83.3		25-135
STL02395	M2-4:2 FTS	67.8		40-200
STL02279	M2-6:2 FTS	64.4		40-200
STL02280	M2-8:2 FTS	65.6		40-300
STL02255	13C3 HFPO-DA	107	cn	40-130
STL02277	d7-N-MeFOSE-M	81.7		10-130
STL02278	d9-N-EtFOSE-M	84.1		10-130
STL02704	d5-NEtPFOSA	71.2		10-130
STL02705	d3-NMePFOSA	68.3		10-130
STL00998	13C2 PFDoA	75.6		10-130

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Start Date: 02/12/2025 12:45

Analysis Batch Number: 605295 End Date: 02/12/2025 15:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-605295/1		02/12/2025 12:45	1	25FEB12-CAL-05.d	Gemini C18 50mm 3(mm)
IC 410-605295/2		02/12/2025 12:59	1	25FEB12-CAL-06.d	Gemini C18 50mm 3(mm)
IC 410-605295/3		02/12/2025 13:12	1	25FEB12-CAL-07.d	Gemini C18 50mm 3(mm)
IC 410-605295/4		02/12/2025 13:26	1	25FEB12-CAL-08.d	Gemini C18 50mm 3(mm)
ICISAV 410-605295/5		02/12/2025 13:39	1	25FEB12-CAL-09.d	Gemini C18 50mm 3(mm)
IC 410-605295/6		02/12/2025 13:53	1	25FEB12-CAL-10.d	Gemini C18 50mm 3(mm)
IC 410-605295/7		02/12/2025 14:06	1	25FEB12-CAL-11.d	Gemini C18 50mm 3(mm)
IC 410-605295/8		02/12/2025 14:20	1	25FEB12-CAL-12.d	Gemini C18 50mm 3(mm)
ICB 410-605295/9		02/12/2025 14:34	1	25FEB12-CAL-13.d	Gemini C18 50mm 3(mm)
ICV 410-605295/10		02/12/2025 14:47	1	25FEB12-CAL-14.d	Gemini C18 50mm 3(mm)
WDM 410-605295/11		02/12/2025 15:01	1	25FEB12-CAL-15.d	Gemini C18 50mm 3(mm)

1633

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Start Date: 02/17/2025 15:58

Analysis Batch Number: 606840 End Date: 02/18/2025 12:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVO 410-606840/1		02/17/2025 15:58	1	25FEB17W-01.d	Gemini C18 50mm 3(mm)
CCV 410-606840/2		02/17/2025 16:12	1	25FEB17W-02.d	Gemini C18 50mm 3(mm)
CCB 410-606840/3		02/17/2025 16:26	1	25FEB17W-03.d	Gemini C18 50mm 3(mm)
WDM 410-606840/4		02/17/2025 16:39	1	25FEB17W-04.d	Gemini C18 50mm 3(mm)
MB 410-606716/1-A		02/17/2025 17:06	1	25FEB17W-06.d	Gemini C18 50mm 3(mm)
LCS 410-606716/2-A		02/17/2025 17:20	1	25FEB17W-07.d	Gemini C18 50mm 3(mm)
LLCS 410-606716/3-A		02/17/2025 17:34	1	25FEB17W-08.d	Gemini C18 50mm 3(mm)
410-207884-1	MW-30D-021125	02/17/2025 17:47	1	25FEB17W-09.d	Gemini C18 50mm 3(mm)
410-207884-2	EB-01-021125	02/17/2025 18:01	1	25FEB17W-10.d	Gemini C18 50mm 3(mm)
410-207884-3	MW-33D-021225	02/17/2025 18:15	1	25FEB17W-11.d	Gemini C18 50mm 3(mm)
410-207884-3 MS	MW-33D-021225MS MS	02/17/2025 18:28	1	25FEB17W-12.d	Gemini C18 50mm 3(mm)
410-207884-3 MSD	MW-33D-021225MSD MSD	02/17/2025 18:42	1	25FEB17W-13.d	Gemini C18 50mm 3(mm)
410-207884-4	VFCC-2-021225	02/17/2025 18:55	1	25FEB17W-14.d	Gemini C18 50mm 3(mm)
410-207884-5	VFCC-3-021225	02/17/2025 19:09	1	25FEB17W-15.d	Gemini C18 50mm 3(mm)
410-207884-6	MW-33S-021225	02/17/2025 19:22	1	25FEB17W-16.d	Gemini C18 50mm 3(mm)
410-207884-7	MW-33S-FD-021225	02/17/2025 19:36	1	25FEB17W-17.d	Gemini C18 50mm 3(mm)
410-207884-8	EB-02-021225	02/17/2025 19:50	1	25FEB17W-18.d	Gemini C18 50mm 3(mm)
CCV 410-606840/109		02/17/2025 20:03	1	25FEB17W-19.d	Gemini C18 50mm 3(mm)
CCB 410-606840/110		02/17/2025 20:17	1	25FEB17W-20.d	Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 20:31	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 20:44	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 20:58	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 21:11	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 21:25	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/17/2025 21:39	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/17/2025 21:52	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/17/2025 22:06	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 22:19	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 22:33	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 22:47	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 23:00	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/17/2025 23:14	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/17/2025 23:27	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/17/2025 23:41	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/17/2025 23:55	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 00:08	1		Gemini C18 50mm 3(mm)
CCV 410-606840/111		02/18/2025 00:22	1		Gemini C18 50mm 3(mm)
CCB 410-606840/112		02/18/2025 00:35	1		Gemini C18 50mm 3(mm)
ZZZZZ		02/18/2025 00:49	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 01:03	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 01:16	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 01:30	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 01:43	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 01:57	1		Gemini C18 50mm 3(mm)

1633

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-207884-1

SDG No.:

Instrument ID: 30576 Start Date: 02/17/2025 15:58

Analysis Batch Number: 606840 End Date: 02/18/2025 12:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (QC)		02/18/2025 02:11	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 02:24	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 02:38	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 02:51	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 03:05	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 03:19	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 03:32	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 03:46	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 03:59	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 04:13	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 04:27	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 04:40	1		Gemini C18 50mm 3(mm)
CCV 410-606840/131		02/18/2025 04:54	1		Gemini C18 50mm 3(mm)
CCB 410-606840/132		02/18/2025 05:07	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 05:21	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 05:35	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 05:48	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 06:02	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 06:15	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 06:29	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 06:43	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 06:56	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 07:10	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 07:23	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 07:37	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 07:51	1		Gemini C18 50mm 3(mm)
CCV 410-606840/150		02/18/2025 09:12	1		Gemini C18 50mm 3(mm)
CCB 410-606840/151		02/18/2025 09:26	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 09:39	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 09:53	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 10:07	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/18/2025 10:20	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 10:34	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 10:47	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 11:01	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 11:15	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 11:28	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 11:42	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/18/2025 11:55	1		Gemini C18 50mm 3(mm)
CCV 410-606840/163		02/18/2025 12:23	1		Gemini C18 50mm 3(mm)
CCB 410-606840/164		02/18/2025 12:36	1		Gemini C18 50mm 3(mm)

1633

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-207884-1

SDG No.:

Batch Number: 605295 Batch Start Date: 02/12/25 12:45 Batch Analyst: Brubaker, Kelly

Batch Method: 1633 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL1 00030	1633_125_CAL2 00017	1633_125_CAL3 00017	1633_125_CAL4 00027	1633_125_CAL5 00017	1633_125_CAL6 00016
IC 410-605295/1		1633			1 mL					
IC 410-605295/2		1633				1 mL				
IC 410-605295/3		1633					1 mL			
IC 410-605295/4		1633						1 mL		
ICISAV 410-605295/5		1633							1 mL	
IC 410-605295/6		1633								1 mL
IC 410-605295/7		1633								
IC 410-605295/8		1633								
ICB 410-605295/9		1633								
ICV 410-605295/10		1633								
WDM 410-605295/11		1633								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL7 00016	1633_125_CAL8 00015	1633_125_ICV 00013	1633_125_IS_V 00209	1633_125_SS 00071	1633_125_WDM 00008
IC 410-605295/1		1633								
IC 410-605295/2		1633								
IC 410-605295/3		1633								
IC 410-605295/4		1633								
ICISAV 410-605295/5		1633								
IC 410-605295/6		1633								
IC 410-605295/7		1633			1 mL					
IC 410-605295/8		1633				1 mL				
ICB 410-605295/9		1633						50 uL	5 uL	
ICV 410-605295/10		1633					1 mL			
WDM 410-605295/11		1633								1 mL

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-207884-1

SDG No.:

Batch Number: 605295 Batch Start Date: 02/12/25 12:45 Batch Analyst: Brubaker, Kelly

Batch Method: 1633 Batch End Date:

Batch Notes	
Mobil Phase ID	10112002122533A/24L1261013

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-207884-1

SDG No.:

Batch Number: 606716 Batch Start Date: 02/17/25 10:23 Batch Analyst: Smith, Carolyn

Batch Method: 1633 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	AdjustedpH
MB 410-606716/1		1633, 1633			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU
LCS 410-606716/2		1633, 1633			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU
LLCS 410-606716/3		1633, 1633			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU
410-207884-A-1	MW-30D-021125	1633, 1633	Water	T	165.59 g	24.12 g	141.5 mL	5 mL	7.0 SU	6.5 SU
410-207884-A-2	EB-01-021125	1633, 1633	Water	T	146.57 g	14.25 g	132.3 mL	5 mL	7.0 SU	6.0 SU
410-207884-A-3	MW-33D-021225	1633, 1633	Water	T	165.81 g	24.38 g	141.4 mL	5 mL	7.0 SU	6.5 SU
410-207884-A-3 MS	MW-33D-021225MS	1633, 1633	Water	T	166.53 g	24.33 g	142.2 mL	5 mL	7.0 SU	6.5 SU
410-207884-A-3 MSD	MW-33D-021225MSD	1633, 1633	Water	T	166.63 g	24.50 g	142.1 mL	5 mL	7.0 SU	6.0 SU
410-207884-A-4	VFCC-2-021225	1633, 1633	Water	T	164.38 g	24.28 g	140.1 mL	5 mL	7.0 SU	6.5 SU
410-207884-A-5	VFCC-3-021225	1633, 1633	Water	T	164.17 g	24.50 g	139.7 mL	5 mL	7.0 SU	6.5 SU
410-207884-A-6	MW-33S-021225	1633, 1633	Water	T	165.27 g	24.26 g	141 mL	5 mL	7.0 SU	6.0 SU
410-207884-A-7	MW-33S-FD-021225	1633, 1633	Water	T	165.75 g	24.24 g	141.5 mL	5 mL	7.0 SU	6.5 SU
410-207884-A-8	EB-02-021225	1633, 1633	Water	T	150.10 g	14.24 g	135.9 mL	5 mL	7.0 SU	6.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	5%FormicAmt	CalcMsg	1633_125_MS_L 00057	1633_125_MS_M 00057	1633_125_SS 00076	AnalysisComment
MB 410-606716/1		1633, 1633			1 drops	OK			25 uL	Vacuum was applied
LCS 410-606716/2		1633, 1633			1 drops	OK		50 uL	25 uL	Vacuum was applied
LLCS 410-606716/3		1633, 1633			1 drops	OK	40 uL		25 uL	Vacuum was applied
410-207884-A-1	MW-30D-021125	1633, 1633	Water	T	8 drops	OK			25 uL	Particulate. Vacuum was applied. Round 125mL bottle
410-207884-A-2	EB-01-021125	1633, 1633	Water	T	1 drops	OK			25 uL	Vacuum was applied. Round 1L bottle
410-207884-A-3	MW-33D-021225	1633, 1633	Water	T	10 drops	OK			25 uL	Vacuum was applied. Round 125mL bottle

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-207884-1

SDG No.:

Batch Number: 606716 Batch Start Date: 02/17/25 10:23 Batch Analyst: Smith, Carolyn

Batch Method: 1633 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	5%FormicAmt	CalcMsg	1633_125_MS_L 00057	1633_125_MS_M 00057	1633_125_SS 00076	AnalysisComment
410-207884-A-3 MS	MW-33D-021225MS	1633, 1633	Water	T	8 drops	OK		50 uL	25 uL	Vacuum was applied. Round 125mL bottle
410-207884-A-3 MSD	MW-33D-021225MSD	1633, 1633	Water	T	10 drops	OK		50 uL	25 uL	Vacuum was applied. Round 125mL bottle
410-207884-A-4	VFCC-2-021225	1633, 1633	Water	T	8 drops	OK			25 uL	Vacuum was applied. Round 125mL bottle
410-207884-A-5	VFCC-3-021225	1633, 1633	Water	T	8 drops	OK			25 uL	Vacuum was applied. Round 125mL bottle
410-207884-A-6	MW-33S-021225	1633, 1633	Water	T	8 drops	OK			25 uL	Vacuum was applied. Round 125mL bottle
410-207884-A-7	MW-33S-FD-021225	1633, 1633	Water	T	8 drops	OK			25 uL	Vacuum was applied. Round 125mL bottle
410-207884-A-8	EB-02-021225	1633, 1633	Water	T	1 drops	OK			25 uL	Vacuum was applied. Round 125mL bottle

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-207884-1

SDG No.:

Batch Number: 606716 Batch Start Date: 02/17/25 10:23 Batch Analyst: Smith, Carolyn

Batch Method: 1633 Batch End Date:

Batch Notes	
95:5 Methanol Milli-Q Water ID	10794801272533A
pH Indicator ID	20BDH29241
Manifold ID	15, 1633 #7
SPE Cartridge Type	WAX 200mg
SPE Cartridge Lot ID	S24-006187
Balance ID	C447116246
Pipette/Syringe/Dispenser ID	P10-5/ PFAS 16,17
Pipette Tip Lot ID	2408310101
Transfer Pipette Lot #	24320312
Methanol ID	242617
Solvent Name	1% NH4OH:MeOH
Solvent Lot #	10303802112533A
Rinse Solvent Name	30:70 MeOH:MQ
Rinse Solvent Lot	10774101212533A
5% Formic Acid Reagent ID	10794802042533A
SPE Cartridge Conditioner #1 ID	10774102172533A
SPE Cartridge Conditioner #2 ID	10774101142533A
Analyst ID - Reagent Drop	CMS 107741
Analyst ID - Reagent Drop Witness	CTS 81064
Analyst ID - IS Reagent Drop	CMS 107741
Centrifuge Tube ID	20220411-058
QC Bottle Lot ID	0417801J
Carbon ID	G01671
Pipette ID	P1000-7
Vial Lot Number	8000055613
Caps	00355513
Tube Check	PC 44221
Batch Comment	Vialed 2/17/25 2:39 pm. Extracts stored in A266 cooler

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-207884-1

SDG No.:

Batch Number: 606716 Batch Start Date: 02/17/25 10:23 Batch Analyst: Smith, Carolyn

Batch Method: 1633 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1363/64
QUOTE NO. Bottle ID: BJ411032
COC Number 2041699-01

CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: TechLaw Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY Chantilly STATE: VA ZIP: 20151
ATTENTION: Jordan Hedvat
PHONE: 908-789-8900 FAX: —

CLIENT PROJECT INFORMATION
PROJECT NAME: REAC Commodore
PROJECT NO.: F00066 LOCATION: Audubon, PA
PROJECT MANAGER: J. Dziekan
e-mail: Jonathan.Dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX: —

CLIENT BILLING INFORMATION
BILL TO: See Contract PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: See Contract DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT REAC

ANALYSIS
02460 D
1633 (48-HR)

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-30D-021125	GW		/	2/11/25	1430	3	2	1								
2.	EB-01-021125	Blank		/	2/11/25	1300	3	2	1								
3.	TB-01-021125	Blank	-	-	2/11/25	1415	2	2									
4.	MW-33D-021225	GW		/	2/12/25	1145	3	2	1								
5.	MW-33D-MS-021225	GW		/	2/12/25	1145	3	2	1								
6.	MW-33D-MSD-021225	GW		/	2/12/25	1145	3	2	1								
7.	VFCC-2-021225	GW		/	2/12/25	1340	3	2	1								
8.	VFCC-3-021225	GW		/	2/12/25	1320	3	2	1								
9.	MW-33S-021225	GW		/	2/12/25	1435	3	2	1								
10.	MW-33S-FD-021225	GW		/	2/12/25	1435	3	2	1								

PRESERVATIVES: ← Specify Preservatives — A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	2/12/25-1600	1. FedEX
2.	2/12/25-	2.
3.	2-13-25 9:59	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: 1633 Analysis has 48-HR Hold
FR Gun #1

Page 1 of 2
CLIENT: ☐ Hand Delivered ☑ Other FedEX
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

Copyright © 2023
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1363/64
QUOTE NO. Bottle ID: B2411032
COC Number 2041699-01

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Tech Law Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY Chantilly STATE: VA ZIP: 20151
ATTENTION: Jordan Hedvat
PHONE: 908-789-8900 FAX: —

CLIENT PROJECT INFORMATION

PROJECT NAME: REAC Commodore
PROJECT NO.: F00666 LOCATION: Aviation, PA
PROJECT MANAGER: J. Dziekan
e-mail: Jonathan.Dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX: —

CLIENT BILLING INFORMATION

BILL TO: See Contract PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: See Contract DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other _____
☑ EDD FORMAT REAC

ANALYSIS

1 8260 D
2 1633
3.
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	EB-02-021225	Blank		/	2/12/25	1506	1		1								
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	2/12/25 1600	1. FedEX
2.	2/12/25	2.
3.	2-13-25 9:59	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: IR Gun # 1

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
WWW.CHEMTECH.NET

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION	CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION
COMPANY : EUROFINS Lancaster Laboratories	ORDER ID : Q1364		BILL TO: CHEMTECH PO# : q1364
ADDRESS : 2425 New Holland Pike	PROJECT ID:REAC Commodore		ADDRESS : 284, Sheffield Street
CITY:Lancaster State :PA ZIP :17601	PROJECT MANAGER YAZMEEN		CITY: Mountainside State : NJ ZIP : 07092
E-mail :	E-mail : YAZMEEN@CHEMTECH.NET		ATTENTION :YAZMEE
PHONE :717-693-5814	PHONE : (908) 789 8900	FAX: (908) 789 8922	PHONE : (908) 789 8900 FAX : (908) 789 8922

EDD : Equis Region2(M **Report :** Level 2 **Comment :**

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
						DATE	TIME		
01	MW-30D-021125	Water	PFAS	Cool 4 deg C	1633	02/11/2025	14:30:00	1	10
02	EB-01-021125	Water	PFAS	Cool 4 deg C	1633	02/11/2025	18:00:00	1	10
03	MW-33D-021225	Water	PFAS	Cool 4 deg C	1633	02/12/2025	11:45:00	1	10
04	MW-33D-021225MS	Water	PFAS	Cool 4 deg C	1633	02/12/2025	11:45:00	1	10
05	MW-33D-021225MSD	Water	PFAS	Cool 4 deg C	1633	02/12/2025	11:45:00	1	10
06	VFCC-2-021225	Water	PFAS	Cool 4 deg C	1633	02/12/2025	13:40:00	1	10
07	VFCC-3-021225	Water	PFAS	Cool 4 deg C	1633	02/12/2025	13:20:00	1	10
08	MW-33S-021225	Water	PFAS	Cool 4 deg C	1633	02/12/2025	14:35:00	1	10
09	MW-33S-FD-021225	Water	PFAS	Cool 4 deg C	1633	02/12/2025	14:35:00	1	10

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY

RELINQUIESHED BY SAMPLER: 1.	DATETIME:	RECEIVED BY: 1.	Conditions of bottles or Coolers at receipt: ☐ Compliant ☐ Non Compliant	Cooler Temp _____ Ice or Cooler? _____
RELINQUIESHED BY: 2.	DATETIME:	RECEIVED BY: 2.		
RELINQUIESHED BY: 3.	DATETIME:	RECEIVED BY: 3.	☐ OVERNIGHT ☐ OVERNIGHT	Shipment Complete: ☐ YES ☐ NO

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
WWW.CHEMTECH.NET

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION	CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION
COMPANY : EUROFINS Lancaster Laboratories	ORDER ID : Q1364		BILL TO: CHEMTECH PO# : q1364
ADDRESS : 2425 New Holland Pike	PROJECT ID:REAC Commodore		ADDRESS : 284, Sheffield Street
CITY:Lancaster State :PA ZIP :17601	PROJECT MANAGER YAZMEEN		CITY: Mountainside State : NJ ZIP : 07092
E-mail :	E-mail : YAZMEEN@CHEMTECH.NET		ATTENTION :YAZMEE
PHONE :717-693-5814	PHONE : (908) 789 8900	FAX: (908) 789 8922	PHONE : (908) 789 8900 FAX : (908) 789 8922

EDD : Equis Region2(M **Report :** Level 2 **Comment :**

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
						DATE	TIME		
10	EB-02-021225	Water	PFAS	Cool 4 deg C	1633	02/12/2025	15:06:00	1	10

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY

RELINQUIESHED BY SAMPLER: 1.	DATETIME:	RECEIVED BY: 1.	Conditions of bottles or Coolers at receipt: ☐ Compliant ☐ Non Compliant	Cooler Temp _____ Ice or Cooler? _____
RELINQUIESHED BY: 2.	DATETIME:	RECEIVED BY: 2.		
RELINQUIESHED BY: 3.	DATETIME:	RECEIVED BY: 3.	☐ OVERNIGHT ☐ OVERNIGHT	Shipment Complete: ☐ YES ☐ NO

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc. Job Number: 410-207884-1

Login Number: 207884 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	