February 25, 2019

Vista Work Order No. 1900272

Ms. Maya Murshak
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Murshak,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on February 12, 2019 under your Project Name 'NBFF PFAS'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1900272
Case Narrative

Sample Condition on Receipt:

Five groundwater samples and three water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The client was notified of the COC discrepancy.

Analytical Notes:

PFAS Isotope Dilution Method

Samples "SFMW-04s" and "DUP-01" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of PFAS using the PFAS Isotope Dilution Method (Modified EPA Method 537).

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1900272-01	SFMW-04i	08-Feb-19 11:43	12-Feb-19 09:56	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
1900272-02	SFMW-04s	08-Feb-19 14:04	12-Feb-19 09:56	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
1900272-03	MW-03s	08-Feb-19 15:27	12-Feb-19 09:56	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
1900272-04	MW-03i	08-Feb-19 16:41	12-Feb-19 09:56	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
1900272-05	DUP-01	08-Feb-19 00:00	12-Feb-19 09:56	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
1900272-06	EB-01	08-Feb-19 16:41	12-Feb-19 09:56	HDPE Bottle, 250 mL
1900272-07	FB-01	08-Feb-19 16:41	12-Feb-19 09:56	HDPE Bottle, 250 mL
1900272-08	TB-01	08-Feb-19 00:00	12-Feb-19 09:56	HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Matrix: Aqueous
Project: NBFF PFAS

Laboratory Data

Lab Sample: B9B0084-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFPeA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFBS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-4:2 FTS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFHxA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFPeS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFHpA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFHxS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Br-PFHxS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Total PFHxS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-6:2 FTS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFOA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Br-PFOA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Total PFOA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFHpS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFNA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFOSA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFOS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Br-PFOS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Total PFOS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFDA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-8:2FTS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFNS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-MeFOSAA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Br-MeFOSAA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Total MeFOSAA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-EtFOSAA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Br-EtFOSAA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
Total EtFOSAA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFUnA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFDS	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFDoA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFTrDA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
L-PFTeDA	ND	1.37	2.00	4.00		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	101	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C3-PFPeA	IS	99.4	60 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C3-PFBS	IS	99.4	60 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Matrix: Aqueous
Project: NBFF PFAS

Laboratory Data

Lab Sample: B9B0084-BLK1
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	100	40 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-PFHxA	IS	97.3	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C4-PFHpA	IS	96.2	60 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
18O2-PFHxS	IS	96.8	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-6:2 FTS	IS	90.2	40 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-PFOA	IS	88.1	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C5-PFNA	IS	75.6	50 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C8-PFOSA	IS	53.8	20 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C8-PFOS	IS	81.2	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-PFDA	IS	72.7	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-8:2 FTS	IS	78.3	40 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
d3-MeFOSAA	IS	69.6	50 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
d5-EtFOSAA	IS	74.6	50 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-PFUnA	IS	70.7	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-PFDoA	IS	71.3	30 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1
13C2-PFTeDA	IS	61.9	20 - 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:19	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Matrix: Aqueous

Laboratory Data

Lab Sample: B9B0084-BS1
Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	39.3	40.0	98.4	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFPeA	39.3	40.0	98.2	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFBS	40.1	40.0	100	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-4:2 FTS	41.4	40.0	103	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFHxA	41.5	40.0	104	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFPeS	40.0	40.0	100	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFHpA	39.0	40.0	97.4	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
Total PFHxS	38.9	40.0	97.1	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-6:2 FTS	37.3	40.0	93.3	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
Total PFOA	39.7	40.0	99.2	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFHpS	43.3	40.0	108	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFNA	39.2	40.0	98.0	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFOSA	41.2	40.0	103	70 - 130	Q	B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
Total PFOS	36.2	40.0	90.5	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFDA	41.1	40.0	103	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-8:2FTS	38.1	40.0	95.2	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFNS	37.5	40.0	93.8	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
Total MeFOSAA	41.6	40.0	104	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
Total EtFOSAA	39.3	40.0	98.3	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFUnA	41.0	40.0	102	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFDS	36.1	40.0	90.3	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFDoA	40.4	40.0	101	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFTrDA	39.5	40.0	98.8	60 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
L-PFTeDA	40.7	40.0	102	70 - 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	98.2	60- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C3-PFPeA	IS	97.3	60- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C3-PFBS	IS	95.1	60- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-4:2 FTS	IS	91.8	40- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-PFHxA	IS	93.7	70- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C4-PFHpA	IS	94.2	60- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
18O2-PFHxS	IS	92.3	60- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-6:2 FTS	IS	96.5	40- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-PFOA	IS	87.7	60- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C5-PFNA	IS	75.5	50- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Matrix: Aqueous

Laboratory Data

Lab Sample: B9B0084-BS1
Column: BEH C18

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C8-PFOSA	IS	57.3	20- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C8-PFOS	IS	83.3	60- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-PFDA	IS	70.3	60- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-8:2 FTS	IS	80.5	40- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
d3-MeFOSAA	IS	69.1	50- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
d5-EtFOSAA	IS	71.4	50- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-PFUnA	IS	72.9	60- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-PFDoA	IS	66.4	30- 130		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1
13C2-PFTeDA	IS	58.3	20- 150		B9B0084	15-Feb-19	0.250 L	19-Feb-19 19:08	1

Sample ID: SFMW-04i

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 11:43

Laboratory Data

Lab Sample: 1900272-01
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFPeA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFBS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-4:2 FTS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFHxA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFPeS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFHpA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFHxS	3.72	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Br-PFHxS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Total PFHxS	3.72	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-6:2 FTS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFOA	1.39	1.25	1.82	3.64	J	B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Br-PFOA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Total PFOA	1.85	1.25	1.82	3.64	J	B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFHpS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFNA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFOSA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFOS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Br-PFOS	5.63	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Total PFOS	6.11	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFDA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-8:2FTS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFNS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-MeFOSAA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Br-MeFOSAA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Total MeFOSAA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-EtFOSAA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Br-EtFOSAA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
Total EtFOSAA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFUnA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFDS	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFDoA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFTrDA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
L-PFTeDA	ND	1.25	1.82	3.64		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.7	60 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C3-PFPeA	IS	89.1	60 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C3-PFBS	IS	88.6	60 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1

Sample ID: SFMW-04i

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 11:43

Laboratory Data

Lab Sample: 1900272-01
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	81.2	40 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-PFHxA	IS	92.4	70 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C4-PFHpA	IS	104	60 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
18O2-PFHxS	IS	94.6	60 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-6:2 FTS	IS	93.2	40 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-PFOA	IS	91.4	60 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C5-PFNA	IS	86.7	50 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C8-PFOSA	IS	66.4	20 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C8-PFOS	IS	94.1	60 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-PFDA	IS	79.3	60 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-8:2 FTS	IS	86.8	40 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
d3-MeFOSAA	IS	71.7	50 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
d5-EtFOSAA	IS	79.9	50 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-PFUnA	IS	79.7	60 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-PFDoA	IS	73.2	30 - 130		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1
13C2-PFTeDA	IS	79.6	20 - 150		B9B0084	15-Feb-19	0.275 L	19-Feb-19 19:29	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: SFMW-04s

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 14:04

Laboratory Data

Lab Sample: 1900272-02
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFPeA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFBS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-4:2 FTS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFHxA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFPeS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFHpA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFHxS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Br-PFHxS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Total PFHxS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-6:2 FTS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFOA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Br-PFOA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Total PFOA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFHpS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFNA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFOSA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFOS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Br-PFOS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Total PFOS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFDA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-8:2FTS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFNS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-MeFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Br-MeFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Total MeFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-EtFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Br-EtFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
Total EtFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFUnA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFDS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFDoA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFTrDA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
L-PFTeDA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.0	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C3-PFPeA	IS	95.5	60 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C3-PFBS	IS	87.8	60 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1

Sample ID: SFMW-04s

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 14:04

Laboratory Data

Lab Sample: 1900272-02
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	87.5	40 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-PFHxA	IS	94.0	70 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C4-PFHpA	IS	112	60 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
18O2-PFHxS	IS	95.3	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-6:2 FTS	IS	103	40 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-PFOA	IS	94.2	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C5-PFNA	IS	88.9	50 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C8-PFOSA	IS	67.7	20 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C8-PFOS	IS	90.8	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-PFDA	IS	77.2	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-8:2 FTS	IS	87.3	40 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
d3-MeFOSAA	IS	53.4	50 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
d5-EtFOSAA	IS	54.3	50 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-PFUnA	IS	71.6	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-PFDoA	IS	53.5	30 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1
13C2-PFTeDA	IS	48.9	20 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 19:40	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: MW-03s

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 15:27

Laboratory Data

Lab Sample: 1900272-03
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFPeA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFBS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-4:2 FTS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFHxA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFPeS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFHpA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFHxS	2.15	1.36	1.98	3.96	J	B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Br-PFHxS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Total PFHxS	2.15	1.36	1.98	3.96	J	B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-6:2 FTS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFOA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Br-PFOA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Total PFOA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFHpS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFNA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFOSA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFOS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Br-PFOS	8.96	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Total PFOS	10.1	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFDA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-8:2FTS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFNS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-MeFOSAA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Br-MeFOSAA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Total MeFOSAA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-EtFOSAA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Br-EtFOSAA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
Total EtFOSAA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFUnA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFDS	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFDoA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFTrDA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
L-PFTeDA	ND	1.36	1.98	3.96		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.2	60 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C3-PFPeA	IS	98.7	60 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C3-PFBS	IS	102	60 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1

Sample ID: MW-03s

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 15:27

Laboratory Data

Lab Sample: 1900272-03
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	104	40 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-PFHxA	IS	97.3	70 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C4-PFHpA	IS	102	60 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
18O2-PFHxS	IS	98.7	60 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-6:2 FTS	IS	98.0	40 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-PFOA	IS	93.6	60 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C5-PFNA	IS	86.7	50 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C8-PFOSA	IS	67.3	20 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C8-PFOS	IS	98.4	60 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-PFDA	IS	84.0	60 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-8:2 FTS	IS	87.0	40 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
d3-MeFOSAA	IS	79.7	50 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
d5-EtFOSAA	IS	83.5	50 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-PFUnA	IS	80.6	60 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-PFDoA	IS	76.2	30 - 130		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1
13C2-PFTeDA	IS	73.1	20 - 150		B9B0084	15-Feb-19	0.252 L	19-Feb-19 19:50	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: MW-03i

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 16:41

Laboratory Data

Lab Sample: 1900272-04
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	1.44	1.39	2.02	4.05	J	B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFPeA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFBS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-4:2 FTS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFHxA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFPeS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFHpA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFHxS	8.14	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Br-PFHxS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Total PFHxS	9.00	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-6:2 FTS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFOA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Br-PFOA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Total PFOA	1.63	1.39	2.02	4.05	J	B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFHpS	2.15	1.39	2.02	4.05	J	B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFNA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFOSA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFOS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Br-PFOS	13.6	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Total PFOS	14.4	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFDA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-8:2FTS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFNS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-MeFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Br-MeFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Total MeFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-EtFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Br-EtFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
Total EtFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFUnA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFDS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFDoA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFTrDA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
L-PFTeDA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	98.5	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C3-PFPeA	IS	98.6	60 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C3-PFBS	IS	97.1	60 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1

Sample ID: MW-03i

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 16:41

Laboratory Data

Lab Sample: 1900272-04
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	95.5	40 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-PFHxA	IS	98.0	70 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C4-PFHpA	IS	97.2	60 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
18O2-PFHxS	IS	91.8	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-6:2 FTS	IS	98.0	40 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-PFOA	IS	97.1	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C5-PFNA	IS	89.9	50 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C8-PFOSA	IS	66.0	20 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C8-PFOS	IS	96.3	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-PFDA	IS	76.7	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-8:2 FTS	IS	85.7	40 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
d3-MeFOSAA	IS	77.7	50 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
d5-EtFOSAA	IS	79.0	50 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-PFUnA	IS	78.0	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-PFDoA	IS	71.2	30 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1
13C2-PFTeDA	IS	74.4	20 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:01	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: DUP-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 00:00

Laboratory Data

Lab Sample: 1900272-05
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFPeA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFBS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-4:2 FTS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFHxA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFPeS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFHpA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFHxS	3.04	1.41	2.06	4.11	J	B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Br-PFHxS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Total PFHxS	3.04	1.41	2.06	4.11	J	B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-6:2 FTS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFOA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Br-PFOA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Total PFOA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFHpS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFNA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFOSA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFOS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Br-PFOS	4.57	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Total PFOS	4.57	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFDA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-8:2FTS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFNS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-MeFOSAA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Br-MeFOSAA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Total MeFOSAA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-EtFOSAA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Br-EtFOSAA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
Total EtFOSAA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFUnA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFDS	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFDoA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFTrDA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
L-PFTeDA	ND	1.41	2.06	4.11		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.9	60 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C3-PFPeA	IS	90.1	60 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C3-PFBS	IS	87.1	60 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1

Sample ID: DUP-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Groundwater
Date Collected: 08-Feb-19 00:00

Laboratory Data

Lab Sample: 1900272-05
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	84.1	40 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-PFHxA	IS	92.5	70 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C4-PFHpA	IS	104	60 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
18O2-PFHxS	IS	93.2	60 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-6:2 FTS	IS	94.2	40 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-PFOA	IS	88.4	60 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C5-PFNA	IS	87.7	50 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C8-PFOSA	IS	63.6	20 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C8-PFOS	IS	92.0	60 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-PFDA	IS	82.9	60 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-8:2 FTS	IS	89.5	40 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
d3-MeFOSAA	IS	77.8	50 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
d5-EtFOSAA	IS	83.4	50 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-PFUnA	IS	75.2	60 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-PFDoA	IS	66.7	30 - 130		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1
13C2-PFTeDA	IS	71.8	20 - 150		B9B0084	15-Feb-19	0.243 L	19-Feb-19 20:12	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: EB-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Water
Date Collected: 08-Feb-19 16:41

Laboratory Data

Lab Sample: 1900272-06
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFPeA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFBS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-4:2 FTS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFHxA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFPeS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFHpA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFHxS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Br-PFHxS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Total PFHxS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-6:2 FTS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFOA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Br-PFOA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Total PFOA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFHpS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFNA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFOSA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFOS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Br-PFOS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Total PFOS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFDA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-8:2FTS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFNS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-MeFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Br-MeFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Total MeFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-EtFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Br-EtFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
Total EtFOSAA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFUnA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFDS	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFDoA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFTrDA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
L-PFTeDA	ND	1.39	2.02	4.05		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.4	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C3-PFPeA	IS	100	60 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C3-PFBS	IS	99.9	60 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1

Sample ID: EB-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Water
Date Collected: 08-Feb-19 16:41

Laboratory Data

Lab Sample: 1900272-06
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	97.7	40 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-PFHxA	IS	93.6	70 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C4-PFHpA	IS	96.1	60 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
18O2-PFHxS	IS	99.7	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-6:2 FTS	IS	94.9	40 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-PFOA	IS	96.5	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C5-PFNA	IS	85.8	50 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C8-PFOSA	IS	68.4	20 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C8-PFOS	IS	97.8	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-PFDA	IS	77.2	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-8:2 FTS	IS	87.5	40 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
d3-MeFOSAA	IS	70.3	50 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
d5-EtFOSAA	IS	79.1	50 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-PFUnA	IS	74.0	60 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-PFDoA	IS	67.6	30 - 130		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1
13C2-PFTeDA	IS	80.8	20 - 150		B9B0084	15-Feb-19	0.247 L	19-Feb-19 20:22	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: FB-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Water
Date Collected: 08-Feb-19 16:41

Laboratory Data

Lab Sample: 1900272-07
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFPeA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFBS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-4:2 FTS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFHxA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFPeS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFHpA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFHxS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Br-PFHxS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Total PFHxS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-6:2 FTS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFOA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Br-PFOA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Total PFOA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFHpS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFNA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFOSA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFOS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Br-PFOS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Total PFOS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFDA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-8:2FTS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFNS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-MeFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Br-MeFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Total MeFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-EtFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Br-EtFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
Total EtFOSAA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFUnA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFDS	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFDoA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFTrDA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
L-PFTeDA	ND	1.38	2.01	4.02		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.4	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C3-PFPeA	IS	94.0	60 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C3-PFBS	IS	103	60 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1

Sample ID: FB-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Water
Date Collected: 08-Feb-19 16:41

Laboratory Data

Lab Sample: 1900272-07
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	96.6	40 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-PFHxA	IS	92.7	70 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C4-PFHpA	IS	93.7	60 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
18O2-PFHxS	IS	94.1	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-6:2 FTS	IS	94.9	40 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-PFOA	IS	91.8	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C5-PFNA	IS	83.8	50 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C8-PFOSA	IS	57.1	20 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C8-PFOS	IS	92.4	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-PFDA	IS	76.4	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-8:2 FTS	IS	86.7	40 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
d3-MeFOSAA	IS	78.3	50 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
d5-EtFOSAA	IS	79.6	50 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-PFUnA	IS	78.1	60 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-PFDoA	IS	73.0	30 - 130		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1
13C2-PFTeDA	IS	81.7	20 - 150		B9B0084	15-Feb-19	0.249 L	19-Feb-19 20:33	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

Sample ID: TB-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Water
Date Collected: 08-Feb-19 00:00

Laboratory Data

Lab Sample: 1900272-08
Date Received: 12-Feb-19 09:56
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFPeA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFBS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-4:2 FTS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFHxA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFPeS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFHpA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFHxS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Br-PFHxS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Total PFHxS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-6:2 FTS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFOA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Br-PFOA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Total PFOA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFHpS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFNA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFOSA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFOS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Br-PFOS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Total PFOS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFDA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-8:2FTS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFNS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-MeFOSAA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Br-MeFOSAA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Total MeFOSAA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-EtFOSAA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Br-EtFOSAA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
Total EtFOSAA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFUnA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFDS	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFDoA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFTrDA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
L-PFTeDA	ND	1.34	1.95	3.90		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	98.4	60 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C3-PFPeA	IS	96.5	60 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C3-PFBS	IS	99.5	60 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1

Sample ID: TB-01

PFAS Isotope Dilution Method

Client Data

Name: Merit Laboratories, Inc.
Project: NBFF PFAS
Location: NBFF
Matrix: Water
Date Collected: 08-Feb-19 00:00

Laboratory Data

Lab Sample: 1900272-08
Date Received: 12-Feb-19 09:56
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	94.2	40 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-PFHxA	IS	94.0	70 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C4-PFHpA	IS	93.5	60 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
18O2-PFHxS	IS	95.9	60 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-6:2 FTS	IS	92.2	40 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-PFOA	IS	96.5	60 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C5-PFNA	IS	80.0	50 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C8-PFOSA	IS	62.8	20 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C8-PFOS	IS	91.6	60 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-PFDA	IS	76.2	60 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-8:2 FTS	IS	85.9	40 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
d3-MeFOSAA	IS	77.0	50 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
d5-EtFOSAA	IS	82.6	50 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-PFUnA	IS	73.8	60 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-PFDoA	IS	66.0	30 - 130		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1
13C2-PFTeDA	IS	77.9	20 - 150		B9B0084	15-Feb-19	0.256 L	19-Feb-19 20:43	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limits of Detection
LOQ	Limits of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	Ion ratio outside of 70-130% of Standard Ratio.
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	015
Texas Commission on Environmental Quality	T104704189-19-10
Virginia Department of General Services	9618
Washington Department of Ecology	C584-19
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	**Method**
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	**Method**
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Rev. No.: 0
Rev. Date: 06/27/2017

ID: LR - 537COC

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1900272 Temp: 0.7 °C
Storage ID: WR-8 Storage Secured: Yes ☑ No ☐

Project ID: NBFFPFAS PO#: Sampler: Charles Graff / Mellisa Powers-Taylor (name)

TAT (check one): Standard: ☒ 21 days Rush (surcharge may apply) ☐ 14 days ☐ 7 days Specify:

Invoice to: Name: Merit Labs for MDEQ Company: Address: City: State: Ph#: Fax#:

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Mellisa Powers Taylor	2/11/19	9:00	UPS	2/11/19	9:00
UPS	02/12/19	0956	Bettina Benedict / Bettina Benedicto	02/12/19	0956

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

Method of Shipment:

ATTN:

Tracking No.:

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Mod. EPA Method 537: PFOA/ PFOS	UCMR3 PFAS List6	537 List: 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only): PFOA/ PFOS	UCMR3 PFAS List6	PFAS List: 14	Comments
SFMW-04i	2/8/19	11:43	NBFF	2		GW				X					
SFMW-04s	2/8/19	14:04	NBFF	2		GW				X					
MW-03s	2/8/19	15:27	NBFF	2		GW				X					
MW-03i	2/8/19	16:41	NBFF	2		GW				X					
MPT ~~MW-03d~~	~~2/8/19~~			~~2~~		~~GW~~				~~X~~					
DUP-01	2/8/19	—	NBFF	2		GW				X					
EB-01	2/8/19	16:41	NBFF	1		W				X					
FB-01	2/8/19	16:41	NBFF	1		W				X					
TB-01	2/8/19	—	NBFF	1		W				X					

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:
Name: Mi Dept of Environmental Quality
Company: Mellisa Powers-Taylor
Address: 525 W Allegan St
City: Lansing State: Mi Zip: 48933
Phone: 517-388-0795 Fax:
Email: PowersTaylorM@michigan.gov

Container Types: P= HDPE, PJ= HDPE Jar O = Other:

Bottle Preservation Type: T = Thiosulfate, TZ = Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

Page: 1 of 1

Vista Analytical Laboratory

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1900272 TAT std

Samples Arrival:	Date/Time 02/12/19 0956	Initials: UBDS	Location: WR-2 Shelf/Rack: NA
Logged In:	Date/Time 02/12/19 1250	Initials: MNS	Location: WR-2 Shelf/Rack: 2-3, F-3

Delivered By:	FedEx	UPS	On Trac	GSO	DHL	Hand Delivered	Other
Preservation:	Ice		Blue Ice		Dry Ice		None

Temp °C: 0.8 (uncorrected)	Probe used: Y / N	Thermometer ID: IR-4
Temp °C: 0.7 (corrected)		

		YES	NO	NA
Adequate Sample Volume Received? * no backup		* ✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill —	Trk # 12 5490W4 221010 0811	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?			✓	✓

If Chlorinated or Drinking Water Samples, Acceptable Preservation?						✓
Preservation Documented:	$Na_2S_2O_3$ Trizma None Other				Yes	No	NA
Shipping Container	Vista	Client	Retain	Return	Dispose	

Comments: * EB-01
* FB-01
* TB-01

sample label	COC ID
SFMW-04I	SFMW-04i
DUP-01 (a bottle)	DUP-01
DUP-02 (B bottle)	

Does not affect sample integrity.

Chain of Custody Anomaly/Sample Acceptance Form

Vista Analytical Laboratory

Client:	Merit Laboratories, Inc.	Workorder Number:	1900272
Contact:	Maya Murshak	Date Received:	12-Feb-19 09:56
Email:	mayamurshak@meritlabs.com	Documented by/date:	MSparks/02-25-19
Phone:	(517) 827-2744		

Please review the following information and complete the Client Authorization section. To comply with NELAC regulations, we must receive authorization before proceeding with sample analysis.

Thank you,

Martha Maier
mmaier@vista-analytical.com
916-673-1520

The following information or item is needed to proceed with analysis:

- [ ] Complete Chain-of-Custody
- [ ] Test Method Requested
- [ ] Analyte List Requested
- [X] **Other: see comments**
- [ ] Preservative
- [ ] Sample Identification
- [ ] Sample Collection Date and/or Time
- [ ] Collector's Name
- [ ] Sample Type
- [ ] Sample Location

The following anomalies were noted. Authorization is needed to proceed with analysis.

- [ ] Temperature outside < 6°C Range — Samples Affected: _____

Temperature _____°C Ice Present? Yes No Melted

- [ ] Sample ID Discrepancy
- [ ] Sample Holding Time Missed
- [ ] Custody Seals Broken
- [ ] Insufficient Sample Size
- [ ] Sample Container(s) Broken
- [ ] Incorrect Container Type

Comments:

Analyte list requested on COC differs from project.

Client Authorization

Proceed with Analysis: (YES) NO Signature and Date [signature] 02/25/19

Client Comments/Instructions Client notified via email 02/12/19.

EXTRACTION INFORMATION

Process Sheet

Workorder: 1900272

Prep Expiration: 2019-Feb-21

Client: Merit Laboratories, Inc.

Workorder Due: 05-Mar-19 00:00

TAT: 21

Method: **537M Linear All/Branched/Total PFHxS/PFOA/PFOS**

Matrix: **Aqueous**

Prep Batch: B9B0084

Prep Data Entered: 02/19/19 MD

Date and Initials

Version: MI (24 Analytes) L/B/T

Initial Sequence: S9B0038

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1900272-01	"A"	☑	☑	SFMW-04i		WR-2 A-3	HDPE Bottle, 250 mL
1900272-02		☑	☑	SFMW-04s		WR-2 A-3	HDPE Bottle, 250 mL
1900272-03		☑	☑	MW-03s		WR-2 A-3	HDPE Bottle, 250 mL
1900272-04		☑	☑	MW-03i		WR-2 A-3	HDPE Bottle, 250 mL
1900272-05		☑	☑	DUP-01		WR-2 A-3	HDPE Bottle, 250 mL
1900272-06		☑	☑	EB-01		WR-2 A-3	HDPE Bottle, 250 mL
1900272-07		☑	☑	FB-01		WR-2 A-3	HDPE Bottle, 250 mL
1900272-08		☑	☑	TB-01		WR-2 A-3	HDPE Bottle, 250 mL

2 ng/L requirement. (JW) 02/12/19

WO Comments: **L/B/T PFOA, PFOS, PFHxS, all others linear only.**

Pre-Prep Check Out: 02/13/19 MD

Pre-Prep Check In: 02/13/19 MD

Prep Check Out: 02/15/19 HR

Prep Check In: N/A

Prep Reconciled Initals/Date: 02/13/19 MD

Spike Reconciled Initals/Date: HR 02/15/19

VialBoxID: S. Typhi

Matrix: Aqueous

Method: 537M Linear All/Branched/Total PFHxS/PFOA/PFOS

PREPARATION BENCH SHEET

B9B0084

Chemist: HR

Prep Date: 02/15/19

Prep Time: 07:31

Prepared using: ☐ Sonication Shaker ☑ SPE Extraction ☑ Centrifuge ID: C3

Date/Initals: 02/13/19 MD BalanceID: HRMS-9

Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	ENVI-Carb	RS CHEM/WIT DATE
☑	B9B0084-BLK1	5	2	0	1	N/A	N/A	(0.250)	HR HR 02/15/19	HR 02/15/19	N/A	HR QE 02/15/19
☑	B9B0084-BS1	5	2	0	1	↓	↓	(0.250)	↓	↓	↓	↓
☐	1900272-01	6	2	0	9	301.43	26.57	0.27486	↓	↓	↓	↓
☑	1900272-02 (A)(3)	6	2	0	8	275.17	26.61	0.24856	↓	↓	↓	↓
☐	1900272-03	6	2	0	7	278.99	26.72	0.25227	↓	↓	↓	↓
☐	1900272-04	6	2	0	6	273.71	27.05	0.24666	↓	↓	↓	↓
☑	1900272-05	6	2	0	8	270.39	27.26	0.24313	↓	↓	↓	↓
☐	1900272-06	5	2	0	2	274.43	27.74	0.24669	↓	↓	↓	↓
☐	1900272-07	5	2	0	2	276.35	27.75	0.24860	↓	↓	↓	↓
☐	1900272-08	5	2	0	2	282.70	26.52	0.25618	↓	↓	↓	↓

IS: 19A0901, 10uL, (V8)

IS SUP: N/A

NS: 19A0904, 10uL, (V3)

NS SUP: N/A

RS: 19A0902, 10uL, (V8)

SPE Chem: Strata-X-AW, 33um, 200mg/6mL

SPE Lot#: S18-006831

ENVI-Carb Lot#: N/A

Ele SOLV: MeOH/0.5%NH4OH in MeOH

Final Volume(s) 1 mL

Notes: (A) Intense Foaming when Shaken 02/13/19 MD
(3) HR 02/15/19

Comments: Assume 1 g = 1 mL
Cen = Centrifuged

1 = Sample centrifuged twice
2 = Sample deeply colored after centrifuge
3 = Cartridge sorbent discolored after SPE
4 = Sample clogged cartridge, additional cartridge(s) used
5 = Sample recombined at final volume
6 = Sample took longer to SPE, required stronger vacuum
7 = Required Nitrogen line to finish SPE
8 = Required Nitrogen line to finish elution
9 = Sample arrived with low volume
10 = Trizma added to QC (5g/L)

Batch: B9B0084

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1900272-01	**0.27486**	N/A	N/A	**1000**	**15-Feb-19 07:31**	**HNR**			Groundwater	537M Linear All/Branched/
1900272-02	**0.24856**			**1000**	**15-Feb-19 07:31**	**HNR**			Groundwater	537M Linear All/Branched/
1900272-03	**0.25227**			**1000**	**15-Feb-19 07:31**	**HNR**			Groundwater	537M Linear All/Branched/
1900272-04	**0.24666**			**1000**	**15-Feb-19 07:31**	**HNR**			Groundwater	537M Linear All/Branched/
1900272-05	**0.24313**			**1000**	**15-Feb-19 07:31**	**HNR**			Groundwater	537M Linear All/Branched/
1900272-06	**0.24669**			**1000**	**15-Feb-19 07:31**	**HNR**			Water	537M Linear All/Branched/
1900272-07	**0.2486**			**1000**	**15-Feb-19 07:31**	**HNR**			Water	537M Linear All/Branched/
1900272-08	**0.25618**			**1000**	**15-Feb-19 07:31**	**HNR**			Water	537M Linear All/Branched/
B9B0084-BLK1	**0.25**			**1000**	**15-Feb-19 07:31**	**HNR**				QC
B9B0084-BS1	**0.25**			**1000**	**15-Feb-19 07:31**	**HNR**	**19A0904**	**10**		QC

All bolded data on report verified against written benchsheet by (initial/date) 02/19/19 MD

Sample Data – PFAS Isotope Dilution Method

Vista Analytical Laboratory L24 LBT

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		9.16e3	0.250		1.26						
2	2	PFPeA	263.1 > 218.9		1.29e4	0.250		2.26						
3	3	PFBS	299.0 > 79.7		1.79e3	0.250		2.57						
4	4	4:2 FTS	327.2>307.2		2.09e3	0.250		2.98						
5	5	PFHxA	313 > 269		8.51e3	0.250		3.07						
6	36	13C3-PFBA	216.1 > 171.8	9.16e3	1.24e4	0.250	0.735	1.27	1.26	9.23	50.2286	100.5		
7	37	13C3-PFPeA	266. > 221.8	1.29e4	2.27e4	0.250	0.571	2.26	2.26	7.09	49.6887	99.4		
8	38	13C3-PFBS	302. > 98.8	1.79e3	3.34e3	0.250	0.539	2.56	2.57	6.70	49.6920	99.4		
9	39	13C2-4:2 FTS	328.9>81.0	2.09e3	3.34e3	0.250	0.625	2.98	2.98	7.82	50.0609	100.1		
10	40	13C2-PFHxA	315 > 270	8.51e3	2.27e4	0.250	0.962	3.07	3.07	4.68	19.4629	97.3		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.23e4	0.250		3.69						
13	6	PFPeS	349.1>80.1		1.79e3	0.250		3.28						
14	8	L-PFHxS	398.9 > 79.6	8.57e0	1.62e3	0.250		3.84	3.85	0.0661	0.2813		1.65	NO
15	9	Br-PFHxS	398.9 > 79.6		1.62e3	0.250		3.74						
16	68	Total PFHxS	398.9 > 79.6	8.57e0	1.62e3	0.250		3.87		0.0661	0.2813			
17	41	13C4-PFHpA	367.2 > 321.8	1.23e4	2.27e4	0.250	0.562	3.68	3.69	6.76	48.0834	96.2		
18	38	13C3-PFBS	302. > 98.8	1.79e3	3.34e3	0.250	0.539	2.56	2.57	6.70	49.6920	99.4		
19	42	18O2-PFHxS	403.0 > 102.6	1.62e3	3.34e3	0.250	0.502	3.84	3.84	6.08	48.4005	96.8		
20	42	18O2-PFHxS	403.0 > 102.6	1.62e3	3.34e3	0.250	0.502	3.84	3.84	6.08	48.4005	96.8		
21	42	18O2-PFHxS	403.0 > 102.6	1.62e3	3.34e3	0.250	0.502	3.84	3.84	6.08	48.4005	96.8		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.34e3	0.250		4.15						
24	13	PFHpS	449 > 80.0		3.34e3	0.250		4.32						
25	11	L-PFOA	412.8 > 368.9	9.23e1	2.17e4	0.250		4.20	4.21	0.0531	0.1384		8.53	NO
26	12	Br-PFOA	412.8 > 368.9		2.17e4	0.250		4.10						
27	69	Total PFOA	412.8 > 368.9	9.23e1	2.17e4	0.250		4.21		0.0531	0.1384			
28	43	13C2-6:2 FTS	428.9>80.9	2.34e3	3.85e3	0.250	0.673	4.15	4.15	7.59	45.1155	90.2		
29	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
30	44	13C2-PFOA	414.9 > 369.7	2.17e4	3.01e4	0.250	0.819	4.21	4.21	9.02	44.0277	88.1		
31	44	13C2-PFOA	414.9 > 369.7	2.17e4	3.01e4	0.250	0.819	4.21	4.21	9.02	44.0277	88.1		
32	44	13C2-PFOA	414.9 > 369.7	2.17e4	3.01e4	0.250	0.819	4.21	4.21	9.02	44.0277	88.1		
33	-1													
34	14	PFNA	463.0 > 418.8	2.44e1	1.74e4	0.250		4.64	4.65	0.0175	0.2028		37.6	YES
35	15	PFOSA	497.7 > 77.9		1.55e3	0.250		4.71						
36	16	L-PFOS	498.9 > 79.9		3.34e3	0.250		4.72						

KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9		3.34e3	0.250		4.62						
38	70	Total PFOS	498.9 > 79.9	0.00e0	3.34e3	0.250		4.74		0.000				
39	45	13C5-PFNA	468.2 > 422.9	1.74e4	2.33e4	0.250	0.991	4.64	4.65	9.36	37.8028	75.6		
40	46	13C8-PFOSA	506.1 > 77.7	1.55e3	3.53e4	0.250	0.082	4.71	4.71	0.550	26.9196	53.8		
41	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
42	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
43	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
44	-1													
45	18	PFDA	513 > 468.8	3.83e1	1.73e4	0.250		5.02	5.03	0.0277			33.5	YES
46	19	8:2 FTS	527 > 506.9		2.17e3	0.250		4.99						
47	20	PFNS	549.1 > 80.1		3.34e3	0.250		5.08						
48	26	PFDS	598.8 > 79.9		3.34e3	0.250		5.39						
49	25	PFUdA	563.0 > 518.9	8.52e1	2.35e4	0.250		5.34	5.35	0.0454	0.1537		7.62	NO
50	48	13C2-PFDA	515.1 > 469.9	1.73e4	3.10e4	0.250	0.768	5.02	5.02	6.98	36.3539	72.7		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.17e3	3.85e3	0.250	0.720	4.99	4.99	7.05	39.1624	78.3		
52	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
53	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
54	51	13C2-PFUdA	565 > 519.8	2.35e4	3.53e4	0.250	0.941	5.34	5.35	8.31	35.3443	70.7		
55	-1													
56	21	L-MeFOSAA	570 > 419		2.71e3	0.250		5.17						
57	22	Br-MeFOSAA	570. > 419		2.71e3	0.250		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	2.71e3	0.250		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.59e4	0.250		5.87						
60	30	PFTeDA	713.0 > 669.0		1.52e4	0.250		6.09						
61	50	d3-N-MeFOSAA	573.3 > 419	2.71e3	3.53e4	0.250	0.110	5.17	5.17	0.958	34.7815	69.6		
62	50	d3-N-MeFOSAA	573.3 > 419	2.71e3	3.53e4	0.250	0.110	5.17	5.17	0.958	34.7815	69.6		
63	50	d3-N-MeFOSAA	573.3 > 419	2.71e3	3.53e4	0.250	0.110	5.17	5.17	0.958	34.7815	69.6		
64	53	13C2-PFDoA	614.7 > 569.7	2.59e4	3.10e4	0.250	1.175	5.62	5.63	10.5	35.6456	71.3		
65	55	13C2-PFTeDA	715.1 > 669.7	1.52e4	3.53e4	0.250	0.696	6.09	6.09	5.38	30.9319	61.9		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		3.81e3	0.250		5.33						
68	24	Br-ETFOSAA	584.1 > 419		3.81e3	0.250		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	3.81e3	0.250		5.49		0.000				
70	27	PFDoA	612.9 > 569.0		2.59e4	0.250		5.63						
71	73	TCDA	498.3>106.9			0.250		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	3.81e3	3.53e4	0.250	0.145	5.33	5.33	1.35	37.2820	74.6		

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	3.81e3	3.53e4	0.250	0.145	5.33	5.33	1.35	37.2820	74.6		
74	52	d5-N-EtFOSAA	589.3 > 419	3.81e3	3.53e4	0.250	0.145	5.33	5.33	1.35	37.2820	74.6		
75	53	13C2-PFDoA	614.7 > 569.7	2.59e4	3.10e4	0.250	1.175	5.62	5.63	10.5	35.6456	71.3		
76	47	13C8-PFOS	507.0 > 79.9	3.34e3	3.85e3	0.250	1.068	4.73	4.74	10.8	40.5885	81.2		
77	-1													
78	60	13C4-PFBA	217. > 172	1.24e4	1.24e4	0.250	1.000	1.26	1.26	12.5	50.0000	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.27e4	2.27e4	0.250	1.000	3.07	3.07	12.5	50.0000	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.34e3	3.34e3	0.250	1.000	3.84	3.84	12.5	50.0000	100.0		
81	63	13C8-PFOA	420.9 > 376	3.01e4	3.01e4	0.250	1.000	4.21	4.21	12.5	50.0000	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.33e4	2.33e4	0.250	1.000	4.64	4.65	12.5	50.0000	100.0		
83	65	13C4-PFOS	503 > 79.9	3.85e3	3.85e3	0.250	1.000	4.73	4.74	12.5	50.0000	100.0		
84	66	13C6-PFDA	519.1 > 473.7	3.10e4	3.10e4	0.250	1.000	5.01	5.02	12.5	50.0000	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.53e4	3.53e4	0.250	1.000	5.34	5.35	12.5	50.0000	100.0		

KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

MM 2/24/2019

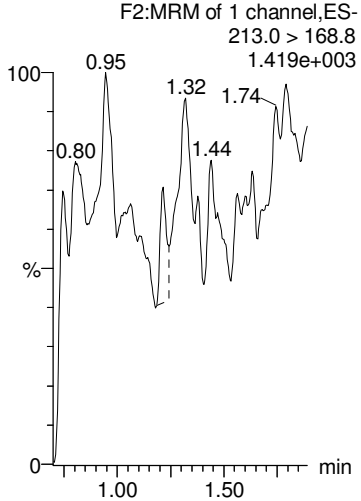
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

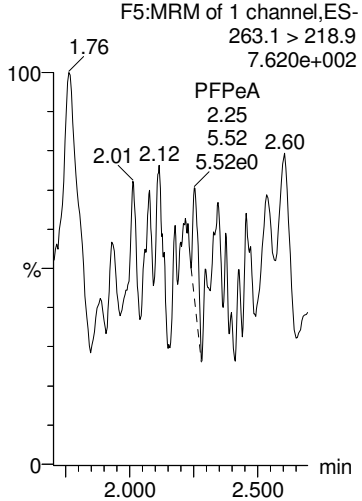
Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

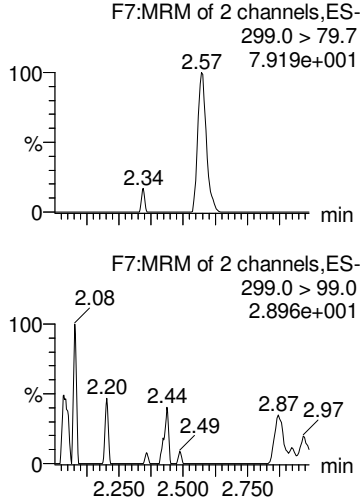
PFBA



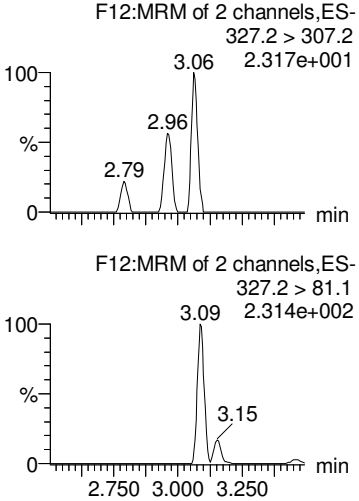
PFPeA



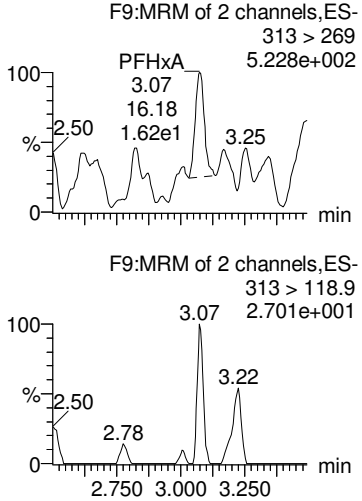
PFBS



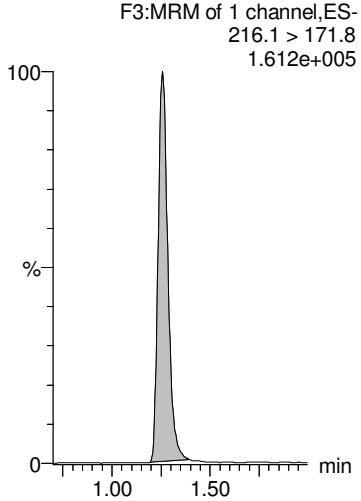
4:2 FTS



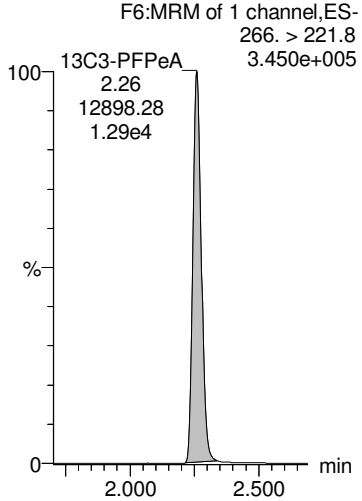
PFHxA



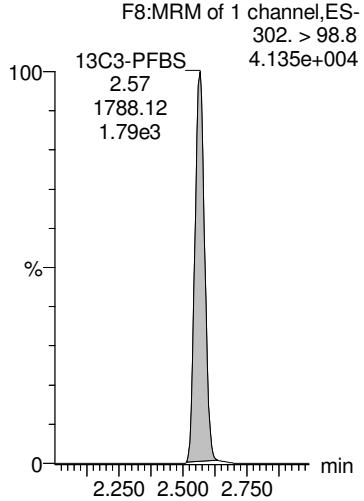
13C3-PFBA



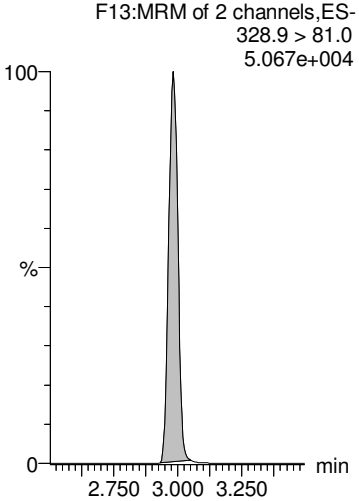
13C3-PFPeA



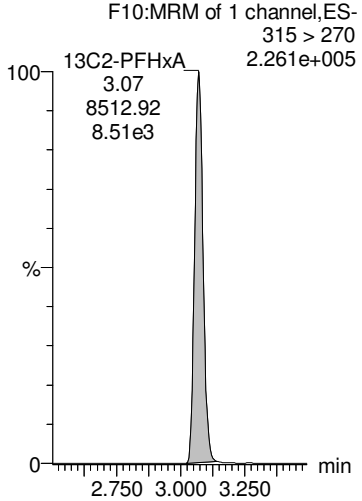
13C3-PFBS



13C2-4:2 FTS



13C2-PFHxA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

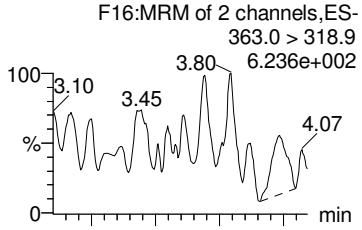
MM 2/24/2019

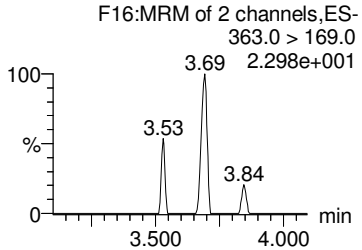
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

PFHpA





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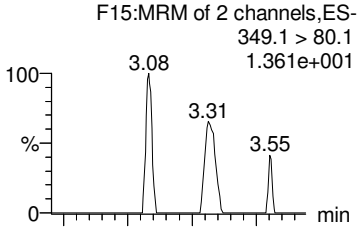
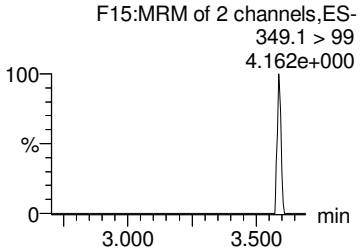
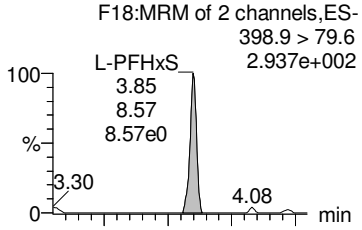
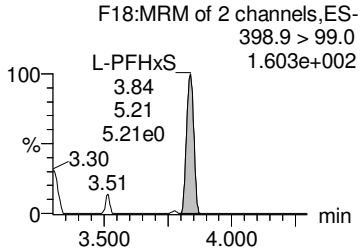


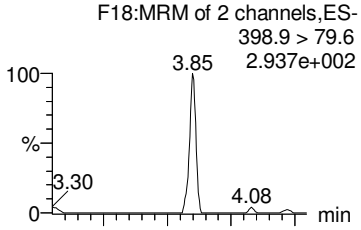


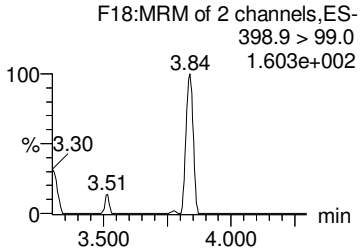
L-PFHxS



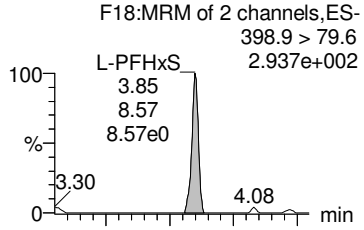


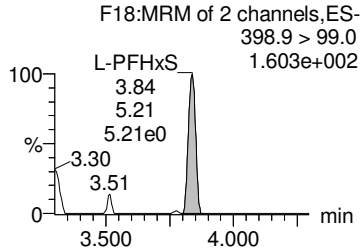
Br-PFHxS



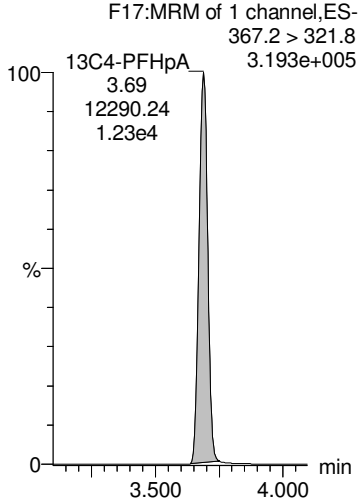


Total PFHxS

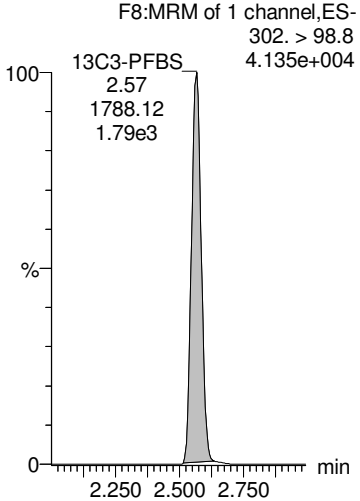




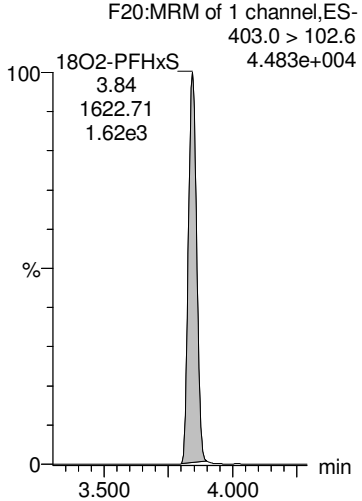
13C4-PFHpA



13C3-PFBS



18O2-PFHxS



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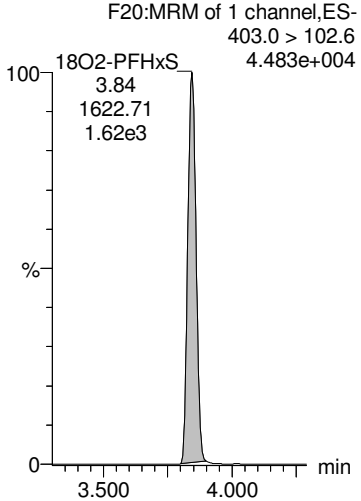

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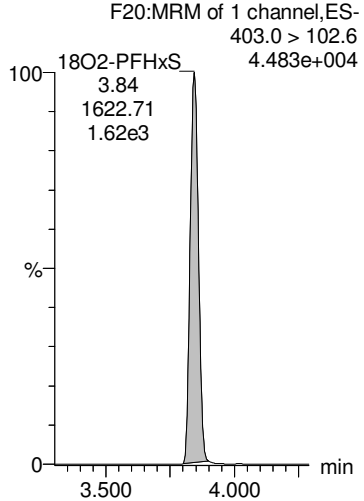


KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

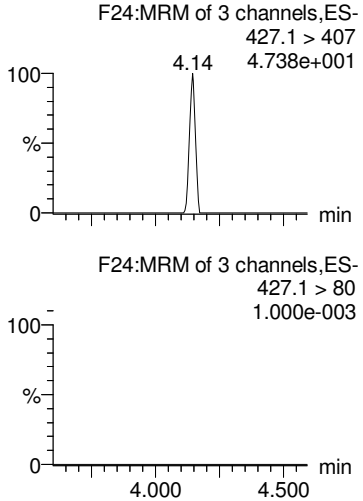
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

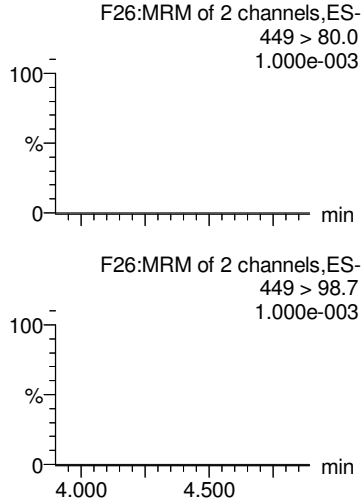
Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

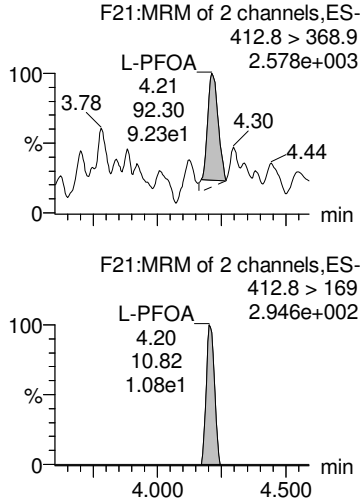
6:2 FTS



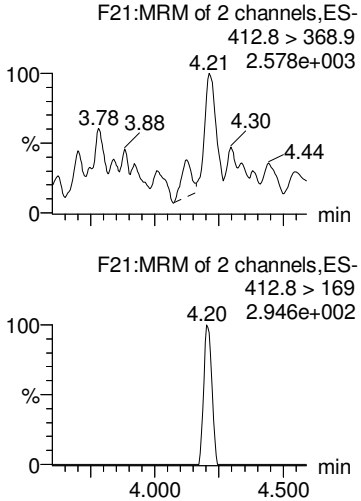
PFHpS



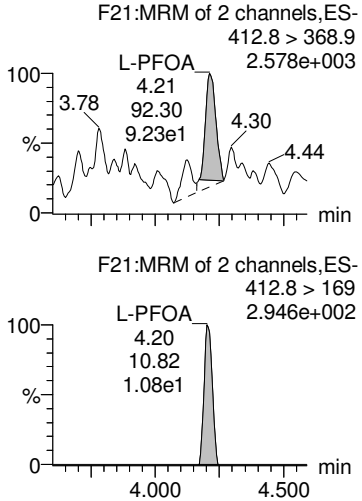
L-PFOA



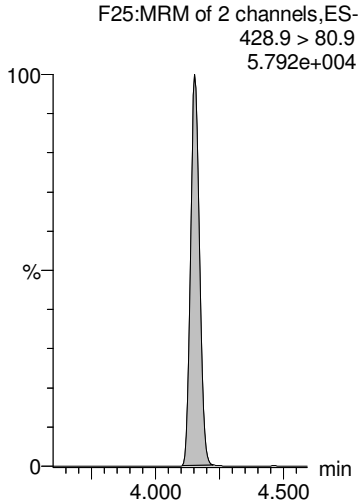
Br-PFOA



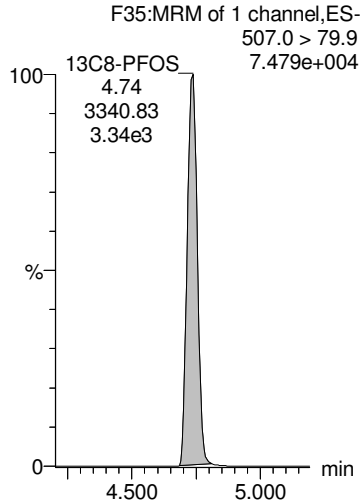
Total PFOA



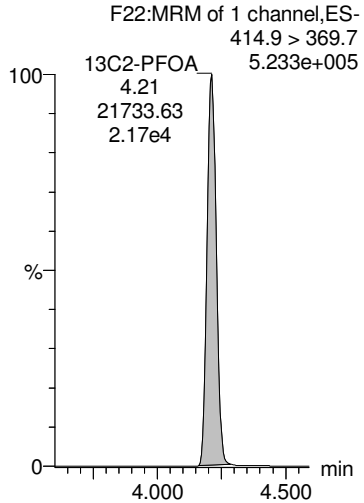
13C2-6:2 FTS



13C8-PFOS



13C2-PFOA



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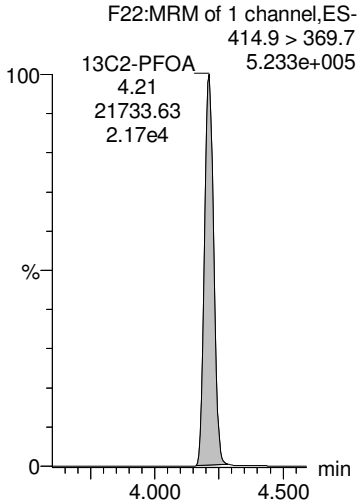

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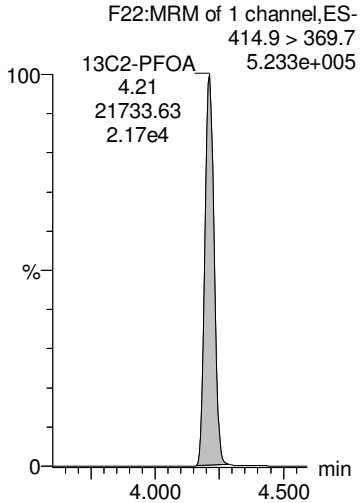


KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

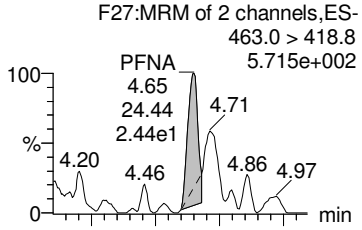
MM 2/24/2019

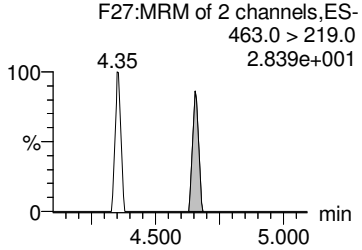
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

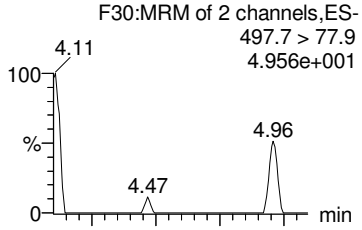
Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

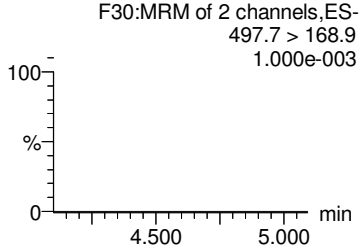
PFNA



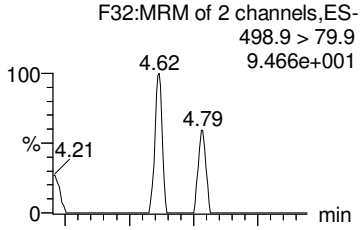


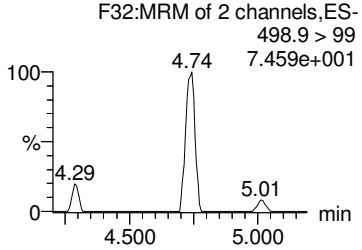
PFOSA



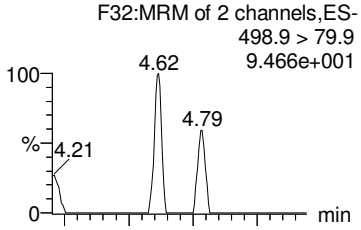


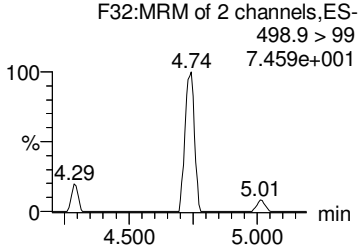
L-PFOS



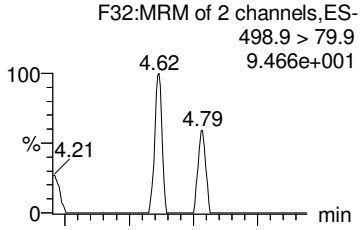


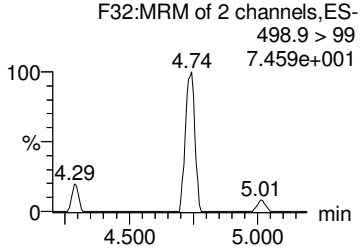
Br-PFOS



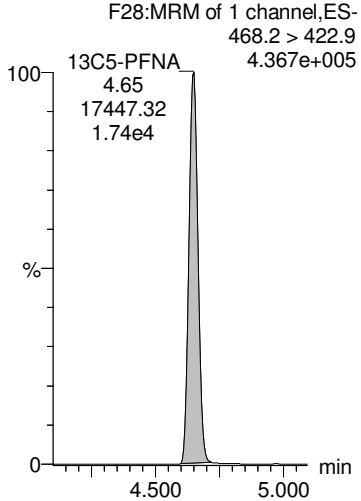


Total PFOS

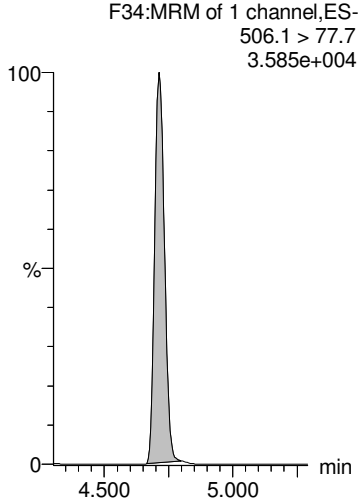




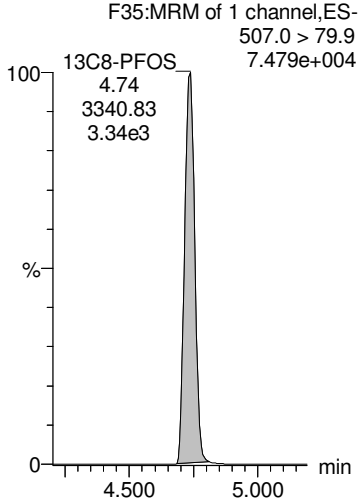
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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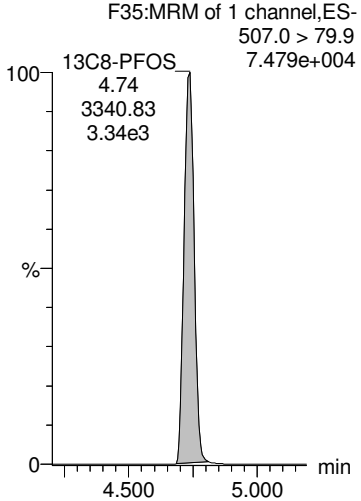
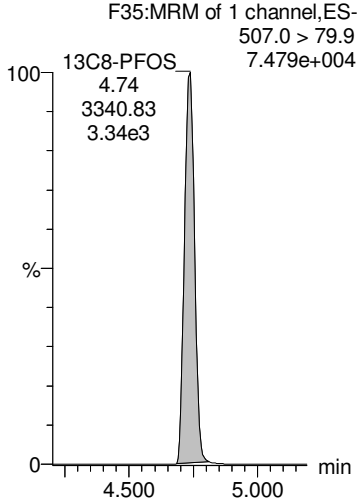


13C8-PFOS



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

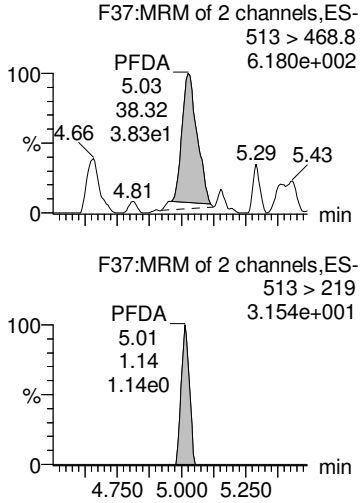
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

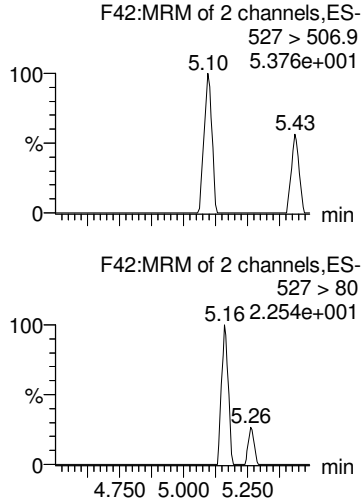
Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

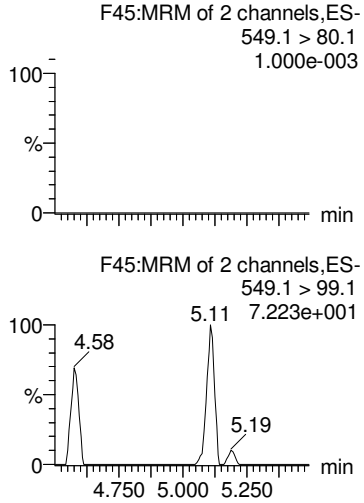
PFDA



8:2 FTS



PFNS



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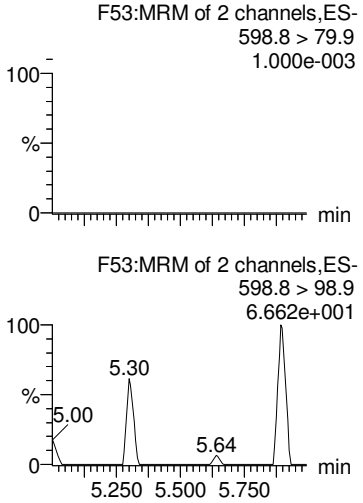
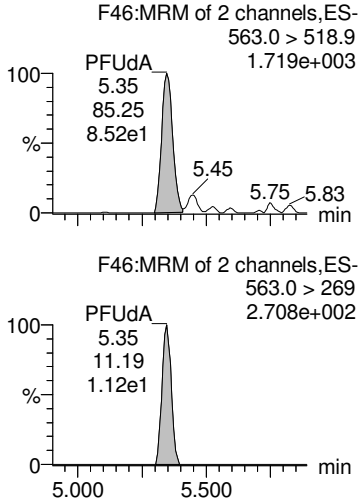
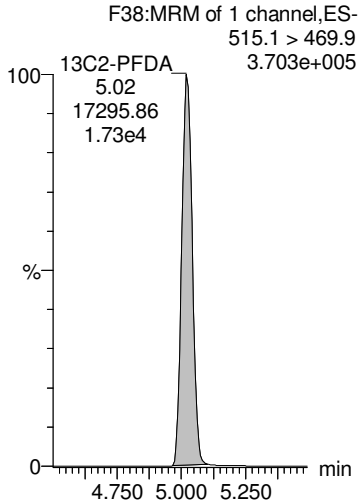


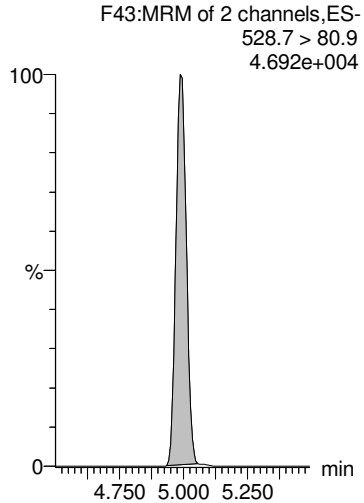
PFUdA



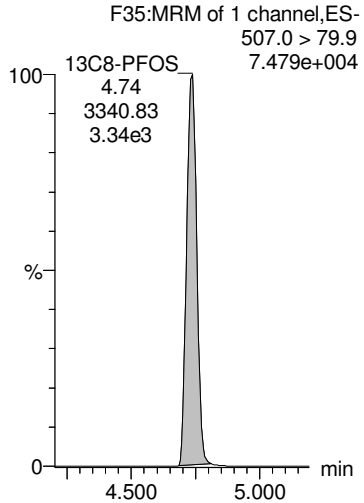
13C2-PFDA



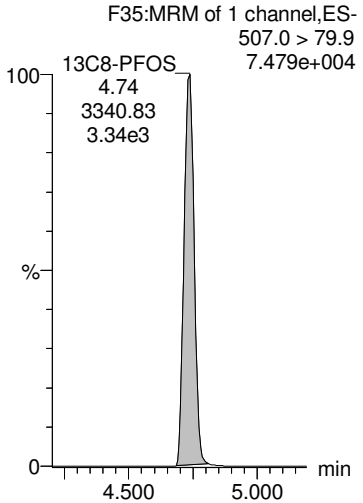
13C2-8:2 FTS



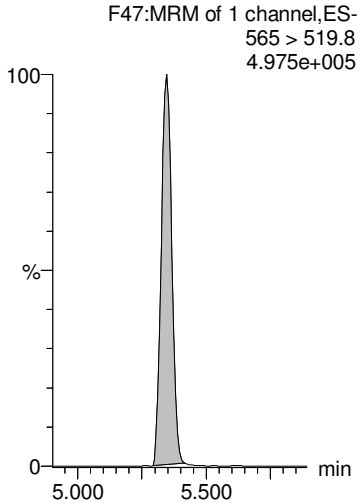
13C8-PFOS



13C8-PFOS



13C2-PFUdA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

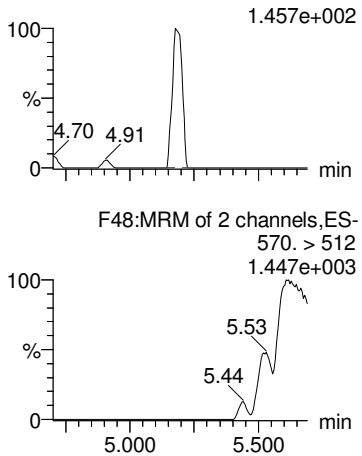
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

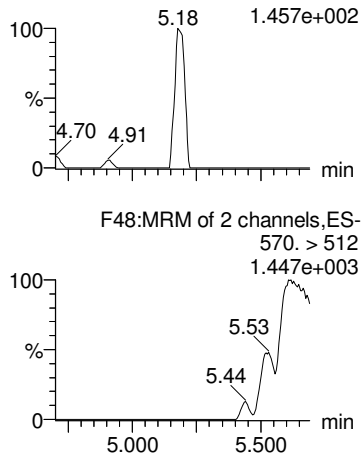
Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

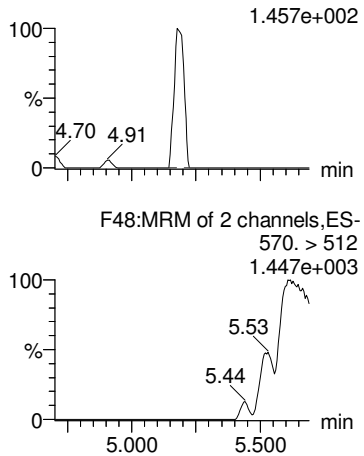
L-MeFOSAA



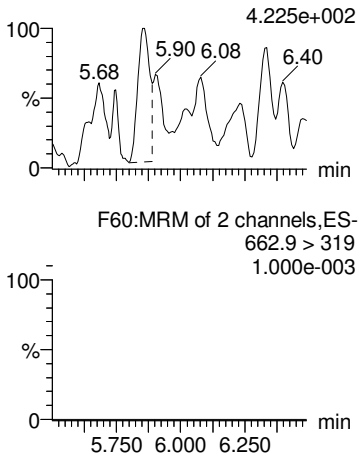
Br-MeFOSAA



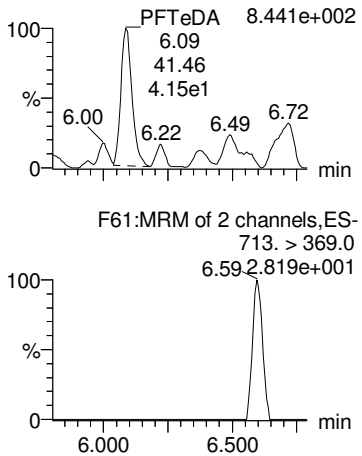
Total N-MeFOSAA



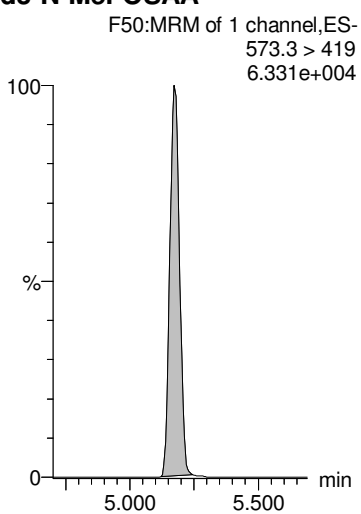
PFTrDA



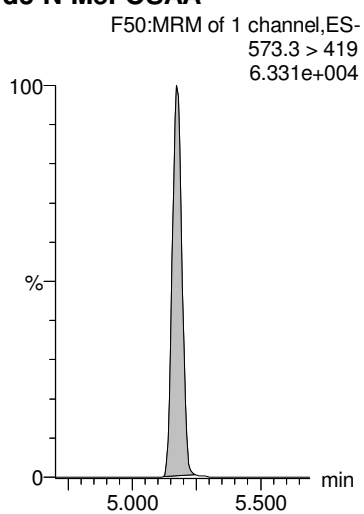
PFTeDA



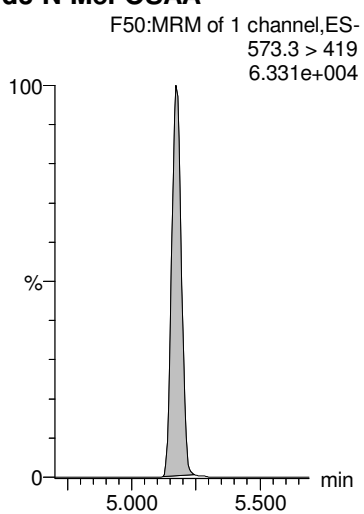
d3-N-MeFOSAA



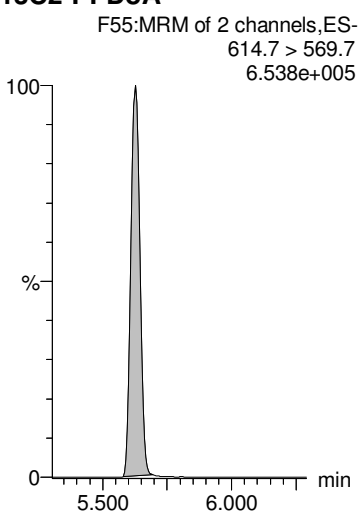
d3-N-MeFOSAA



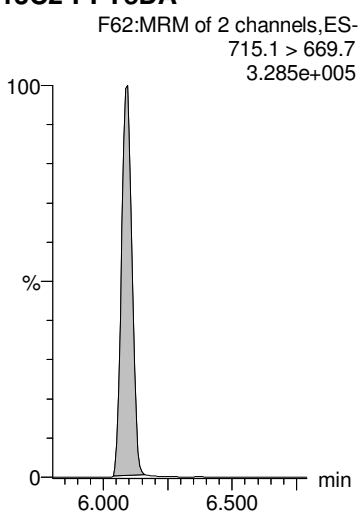
d3-N-MeFOSAA



13C2-PFDoA



13C2-PFTeDA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

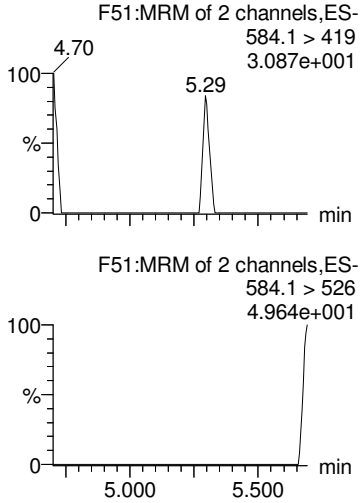
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

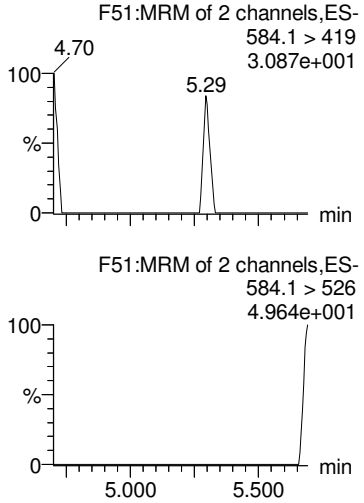
Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

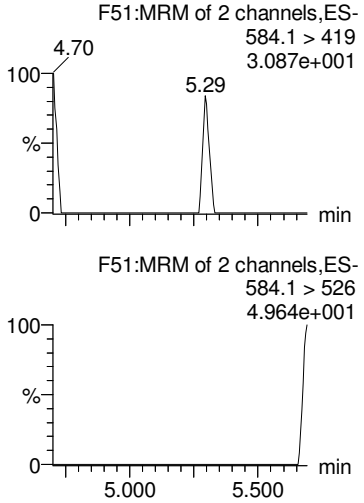
L-EtFOSAA



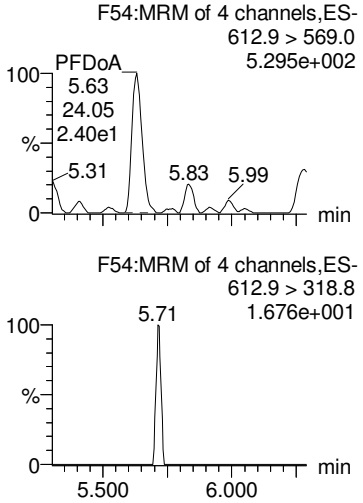
Br-ETFOSAA



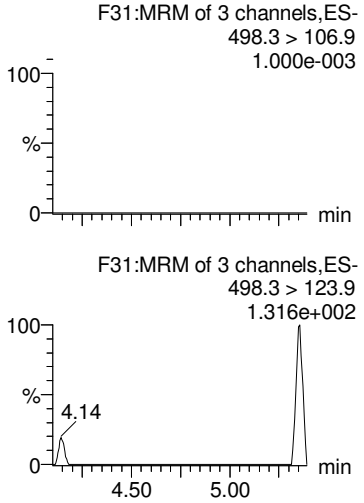
Total N-EtFOSAA



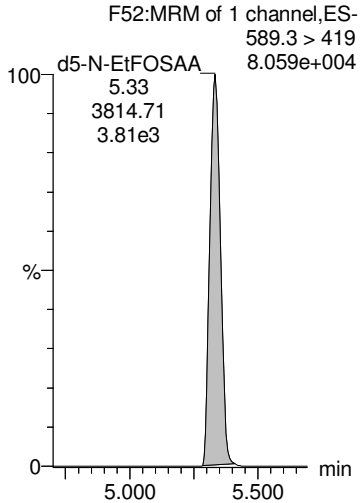
PFDoA



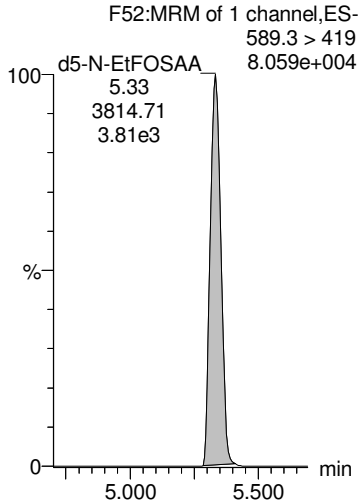
TCDA



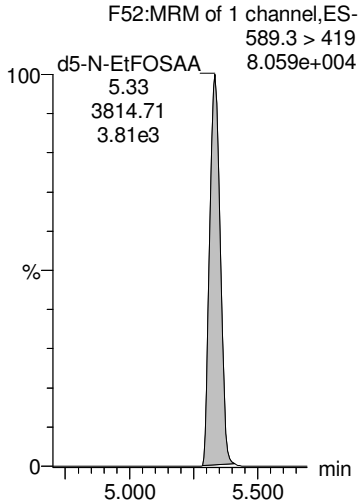
d5-N-EtFOSAA



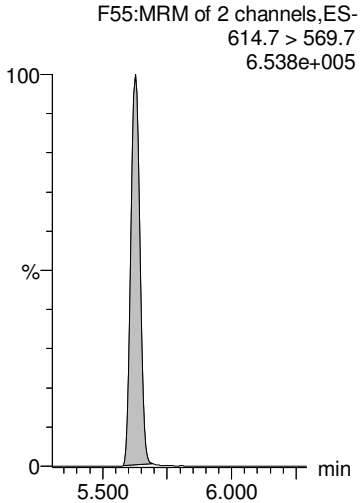
d5-N-EtFOSAA



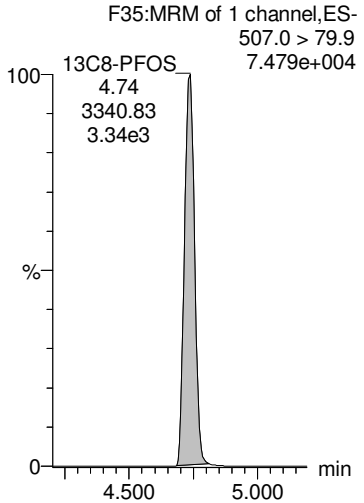
d5-N-EtFOSAA



13C2-PFDoA



13C8-PFOS



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Vista Analytical Laboratory L24 LBT

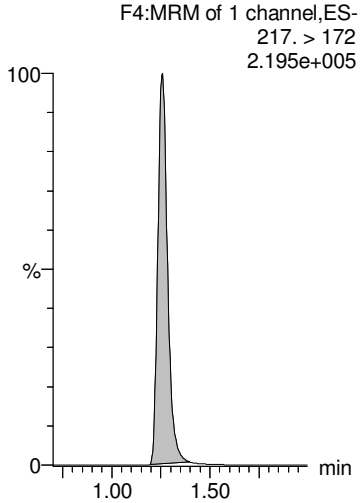
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-16.qld

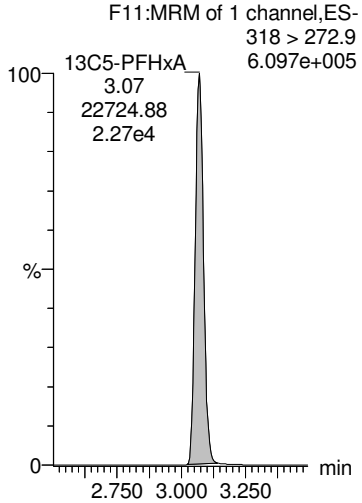
Last Altered: Thursday, February 21, 2019 15:13:04 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:13:14 Pacific Standard Time

Name: 190219M2_16, Date: 19-Feb-2019, Time: 19:19:14, ID: B9B0084-BLK1 Method Blank 0.25, Description: Method Blank

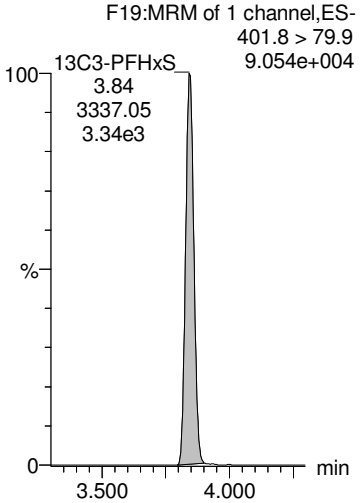
13C4-PFBA



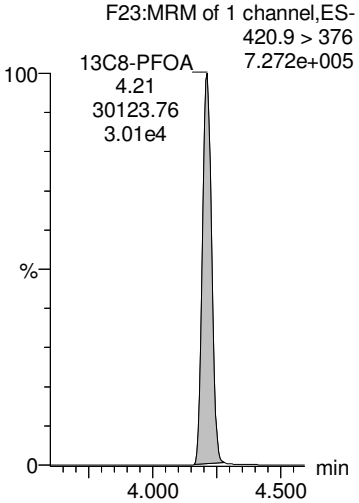
13C5-PFHxA



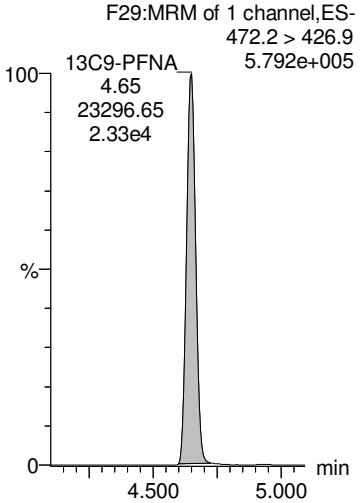
13C3-PFHxS



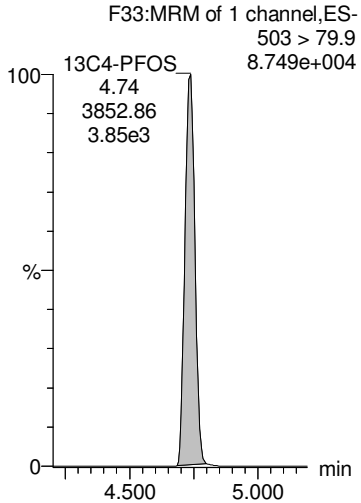
13C8-PFOA



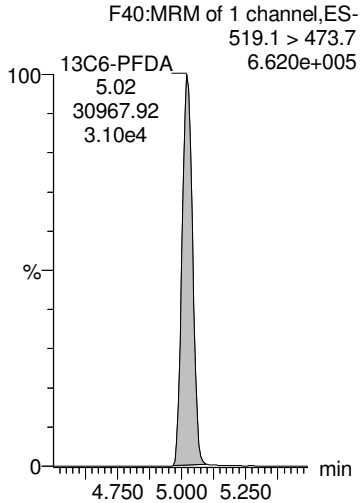
13C9-PFNA



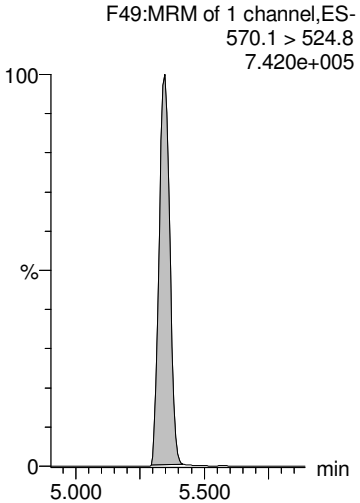
13C4-PFOS



13C6-PFDA



13C7-PFUdA



KBF 2/21/2019

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

	#	Name	Trace	Area	IS Area	wt/vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8	9.59e3	1.01e4	0.250		1.26	1.26	11.8	39.3447	98.4		
2	2	PFPeA	263.1 > 218.9	1.01e4	1.41e4	0.250		2.26	2.26	8.95	39.2794	98.2		
3	3	PFBS	299.0 > 79.7	3.02e3	1.90e3	0.250		2.57	2.57	19.9	40.0675	100.2	2.76	NO
4	4	4:2 FTS	327.2>307.2	2.92e3	2.12e3	0.250		2.98	2.98	17.2	41.3725	103.4	1.72	NO
5	5	PFHxA	313 > 269	1.83e4	9.15e3	0.250		3.07	3.07	10.0	41.5297	103.8	15.7	NO
6	36	13C3-PFBA	216.1 > 171.8	1.01e4	1.40e4	0.250	0.735	1.27	1.26	9.02	49.1077	98.2		
7	37	13C3-PFPeA	266. > 221.8	1.41e4	2.54e4	0.250	0.571	2.26	2.26	6.95	48.6457	97.3		
8	38	13C3-PFBS	302. > 98.8	1.90e3	3.70e3	0.250	0.539	2.56	2.57	6.41	47.5295	95.1		
9	39	13C2-4:2 FTS	328.9>81.0	2.12e3	3.70e3	0.250	0.625	2.98	2.98	7.17	45.9167	91.8		
10	40	13C2-PFHxA	315 > 270	9.15e3	2.54e4	0.250	0.962	3.07	3.07	4.51	18.7329	93.7		
11	-1													
12	6	PFPeS	349.1>80.1	2.61e3	1.90e3	0.250		3.28	3.28	17.2	40.0433	100.1	1.64	NO
13	7	PFHpA	363.0 > 318.9	1.33e4	1.34e4	0.250		3.68	3.68	12.3	38.9677	97.4	12.0	NO
14	8	L-PFHxS	398.9 > 79.6	2.41e3	1.72e3	0.250		3.84	3.84	17.6	38.8544	97.1	1.73	NO
15	68	Total PFHxS	398.9 > 79.6	2.41e3	1.72e3	0.250		3.87		17.6	38.8544			
16	10	6:2 FTS	427.1 > 407	3.56e3	2.55e3	0.250		4.15	4.15	17.5	37.3041	93.3	2.75	NO
17	38	13C3-PFBS	302. > 98.8	1.90e3	3.70e3	0.250	0.539	2.56	2.57	6.41	47.5295	95.1		
18	41	13C4-PFHpA	367.2 > 321.8	1.34e4	2.54e4	0.250	0.562	3.68	3.68	6.62	47.1017	94.2		
19	42	18O2-PFHxS	403.0 > 102.6	1.72e3	3.70e3	0.250	0.502	3.84	3.84	5.80	46.1502	92.3		
20	42	18O2-PFHxS	403.0 > 102.6	1.72e3	3.70e3	0.250	0.502	3.84	3.84	5.80	46.1502	92.3		
21	43	13C2-6:2 FTS	428.9>80.9	2.55e3	3.93e3	0.250	0.673	4.15	4.15	8.11	48.2283	96.5		
22	-1													
23	11	L-PFOA	412.8 > 368.9	2.46e4	2.36e4	0.250		4.20	4.21	13.1	39.6710	99.2	3.46	NO
24	69	Total PFOA	412.8 > 368.9	2.46e4	2.36e4	0.250		4.21		13.1	39.6710			
25	13	PFHpS	449 > 80.0	2.76e3	3.50e3	0.250		4.32	4.32	9.84	43.2965	108.2	1.84	NO
26	16	L-PFOS	498.9 > 79.9	2.77e3	3.50e3	0.250		4.72	4.73	9.90	36.1811	90.5	1.85	NO
27	70	Total PFOS	498.9 > 79.9	2.77e3	3.50e3	0.250		4.74		9.90	36.1811			
28	44	13C2-PFOA	414.9 > 369.7	2.36e4	3.28e4	0.250	0.819	4.21	4.21	8.98	43.8418	87.7		
29	44	13C2-PFOA	414.9 > 369.7	2.36e4	3.28e4	0.250	0.819	4.21	4.21	8.98	43.8418	87.7		
30	47	13C8-PFOS	507.0 > 79.9	3.50e3	3.93e3	0.250	1.068	4.73	4.73	11.1	41.6684	83.3		
31	47	13C8-PFOS	507.0 > 79.9	3.50e3	3.93e3	0.250	1.068	4.73	4.73	11.1	41.6684	83.3		
32	47	13C8-PFOS	507.0 > 79.9	3.50e3	3.93e3	0.250	1.068	4.73	4.73	11.1	41.6684	83.3		
33	-1													
34	14	PFNA	463.0 > 418.8	1.90e4	1.90e4	0.250		4.64	4.64	12.5	39.2084	98.0	4.41	NO
35	15	PFOSA	497.7 > 77.9	1.41e3	1.72e3	0.250		4.71	4.71	10.2	41.2414	103.1	42.4	YES
36	18	PFDA	513 > 468.8	2.05e4	1.82e4	0.250		5.02	5.02	14.1	41.1251	102.8	5.73	NO

KBF 2/21/2019

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

	#	Name	Trace	Area	IS Area	wt/vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	19	8:2 FTS	527 > 506.9	3.29e3	2.28e3	0.250		4.99	4.99	18.0	38.0925	95.2	2.34	NO
38	20	PFNS	549.1 > 80.1	2.00e3	3.50e3	0.250		5.08	5.08	7.14	37.5329	93.8	1.73	NO
39	45	13C5-PFNA	468.2 > 422.9	1.90e4	2.54e4	0.250	0.991	4.64	4.64	9.35	37.7486	75.5		
40	46	13C8-PFOSA	506.1 > 77.7	1.72e3	3.68e4	0.250	0.082	4.71	4.71	0.585	28.6486	57.3		
41	48	13C2-PFDA	515.1 > 469.9	1.82e4	3.37e4	0.250	0.768	5.02	5.02	6.75	35.1721	70.3		
42	49	13C2-8:2 FTS	528.7 > 80.9	2.28e3	3.93e3	0.250	0.720	4.99	4.99	7.25	40.2399	80.5		
43	47	13C8-PFOS	507.0 > 79.9	3.50e3	3.93e3	0.250	1.068	4.73	4.73	11.1	41.6684	83.3		
44	-1													
45	21	L-MeFOSAA	570 > 419	5.95e3	2.80e3	0.250		5.17	5.17	26.6	41.5898	104.0	2.46	NO
46	71	Total N-MeFOSAA	570. > 419	5.95e3	2.80e3	0.250		5.33		26.6	41.5898			
47	23	L-EtFOSAA	584.1 > 419	5.12e3	3.80e3	0.250		5.33	5.33	16.8	39.3011	98.3	1.46	NO
48	72	Total N-EtFOSAA	584.1 > 419	5.12e3	3.80e3	0.250		5.49		16.8	39.3011			
49	25	PFUdA	563.0 > 518.9	1.86e4	2.52e4	0.250		5.34	5.34	9.23	40.9871	102.5	10.1	NO
50	50	d3-N-MeFOSAA	573.3 > 419	2.80e3	3.68e4	0.250	0.110	5.17	5.17	0.951	34.5344	69.1		
51	50	d3-N-MeFOSAA	573.3 > 419	2.80e3	3.68e4	0.250	0.110	5.17	5.17	0.951	34.5344	69.1		
52	52	d5-N-EtFOSAA	589.3 > 419	3.80e3	3.68e4	0.250	0.145	5.33	5.33	1.29	35.6909	71.4		
53	52	d5-N-EtFOSAA	589.3 > 419	3.80e3	3.68e4	0.250	0.145	5.33	5.33	1.29	35.6909	71.4		
54	51	13C2-PFUdA	565 > 519.8	2.52e4	3.68e4	0.250	0.941	5.34	5.34	8.57	36.4510	72.9		
55	-1													
56	26	PFDS	598.8 > 79.9	2.54e3	3.50e3	0.250		5.39	5.39	9.09	36.1090	90.3	1.67	NO
57	27	PFDoA	612.9 > 569.0	2.06e4	2.63e4	0.250		5.63	5.63	9.78	40.3586	100.9	8.15	NO
58	29	PFTrDA	662.9 > 618.9	2.19e4	2.63e4	0.250		5.87	5.87	10.4	39.5382	98.8	22.4	NO
59	30	PFTeDA	713.0 > 669.0	1.72e4	1.49e4	0.250		6.09	6.09	14.4	40.6577	101.6	13.8	NO
60	73	TCDA	498.3>106.9			0.250		5.45						
61	47	13C8-PFOS	507.0 > 79.9	3.50e3	3.93e3	0.250	1.068	4.73	4.73	11.1	41.6684	83.3		
62	53	13C2-PFDoA	614.7 > 569.7	2.63e4	3.37e4	0.250	1.175	5.62	5.63	9.76	33.2082	66.4		
63	53	13C2-PFDoA	614.7 > 569.7	2.63e4	3.37e4	0.250	1.175	5.62	5.63	9.76	33.2082	66.4		
64	55	13C2-PFTeDA	715.1 > 669.7	1.49e4	3.68e4	0.250	0.696	6.09	6.09	5.07	29.1491	58.3		
65	47	13C8-PFOS	507.0 > 79.9	3.50e3	3.93e3	0.250	1.068	4.73	4.73	11.1	41.6684	83.3		
66	-1													
67	61	13C5-PFHxA	318 > 272.9	2.54e4	2.54e4	0.250	1.000	3.07	3.07	12.5	50.0000	100.0		
68	60	13C4-PFBA	217. > 172	1.40e4	1.40e4	0.250	1.000	1.26	1.26	12.5	50.0000	100.0		
69	62	13C3-PFHxS	401.8 > 79.9	3.70e3	3.70e3	0.250	1.000	3.84	3.84	12.5	50.0000	100.0		
70	63	13C8-PFOA	420.9 > 376	3.28e4	3.28e4	0.250	1.000	4.21	4.21	12.5	50.0000	100.0		
71	64	13C9-PFNA	472.2 > 426.9	2.54e4	2.54e4	0.250	1.000	4.64	4.64	12.5	50.0000	100.0		
72	65	13C4-PFOS	503 > 79.9	3.93e3	3.93e3	0.250	1.000	4.73	4.73	12.5	50.0000	100.0		

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MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

	#	Name	Trace	Area	IS Area	wt/vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	66	13C6-PFDA	519.1 > 473.7	3.37e4	3.37e4	0.250	1.000	5.01	5.02	12.5	50.0000	100.0		
74	67	13C7-PFUdA	570.1 > 524.8	3.68e4	3.68e4	0.250	1.000	5.34	5.34	12.5	50.0000	100.0		

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Vista Analytical Laboratory L24

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

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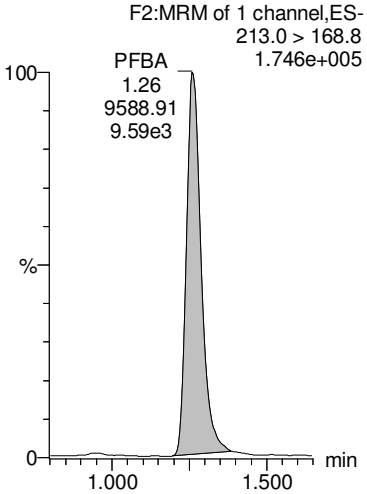
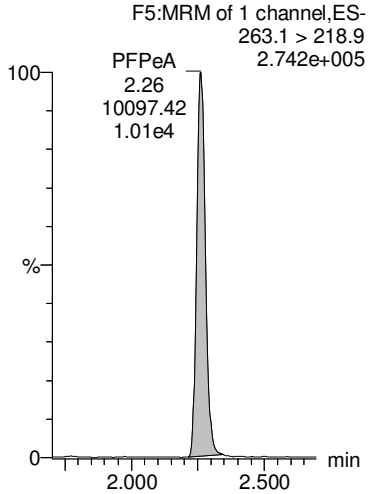
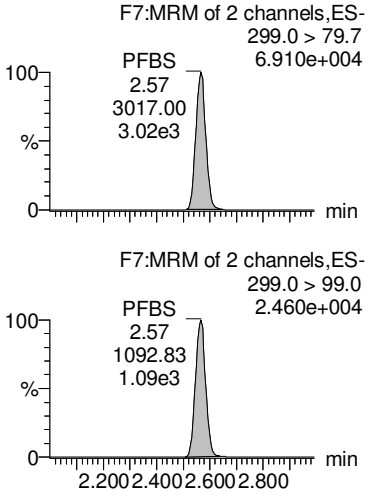


PFPeA



PFBS



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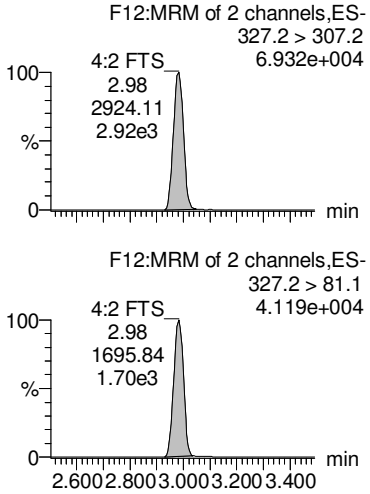
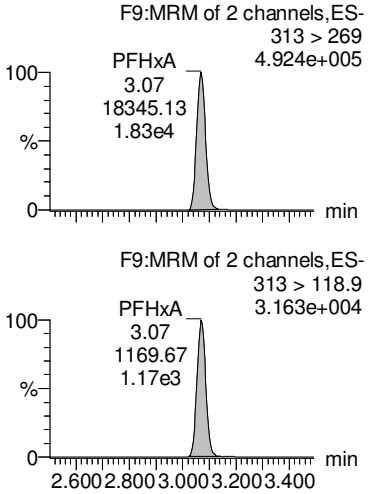
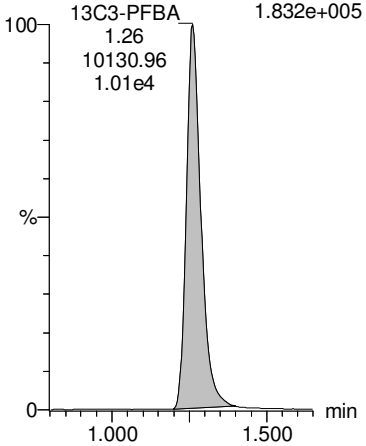


PFHxA



13C3-PFBA



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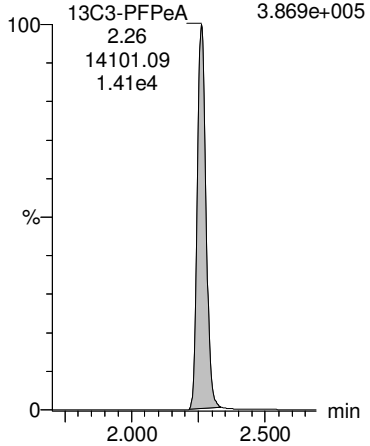

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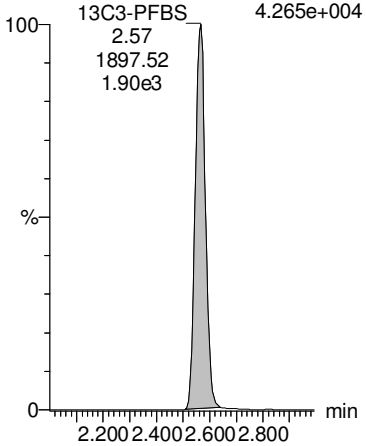
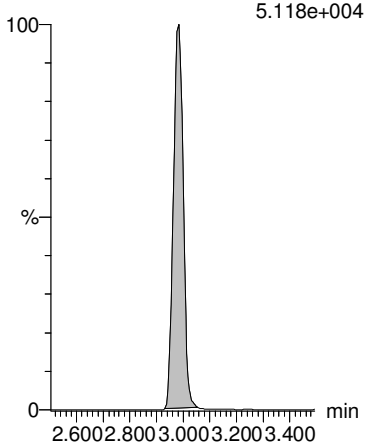


13C2-4:2 FTS



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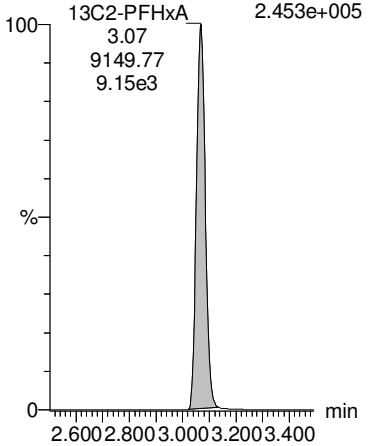

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MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
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Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

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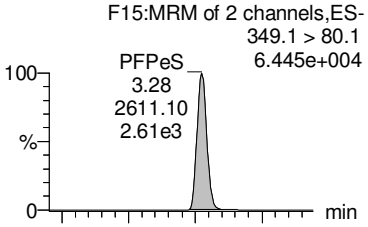

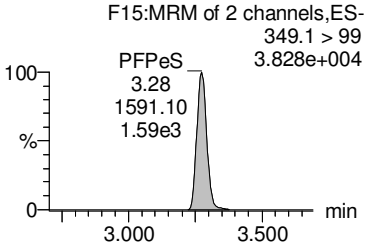

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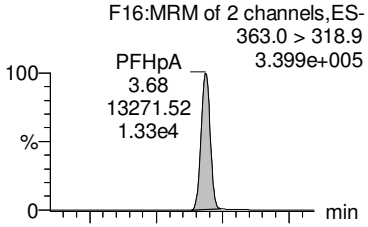
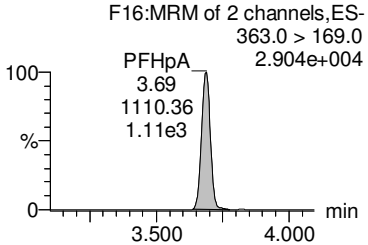
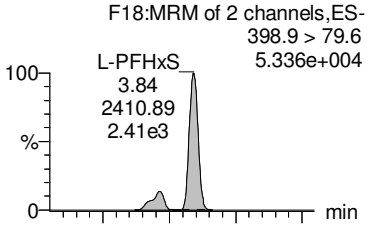
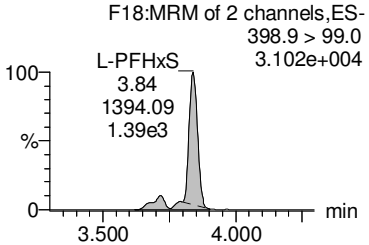


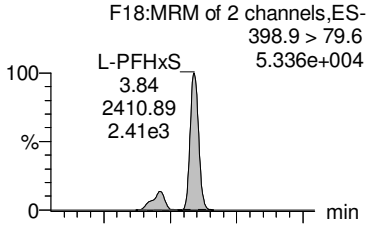


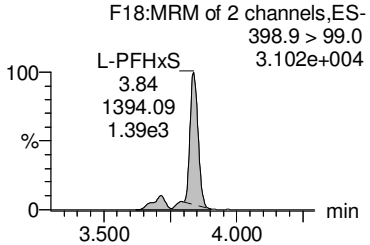
L-PFHxS



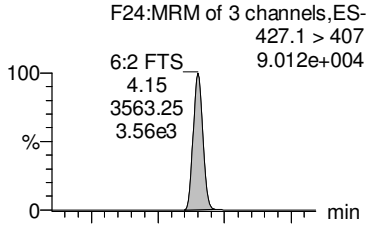


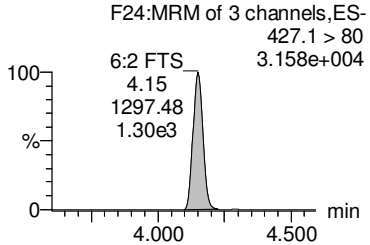
Total PFHxS



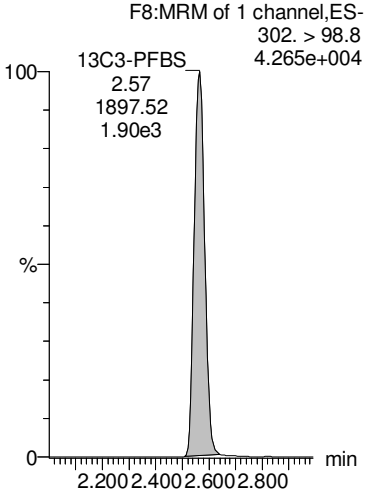


6:2 FTS





13C3-PFBS



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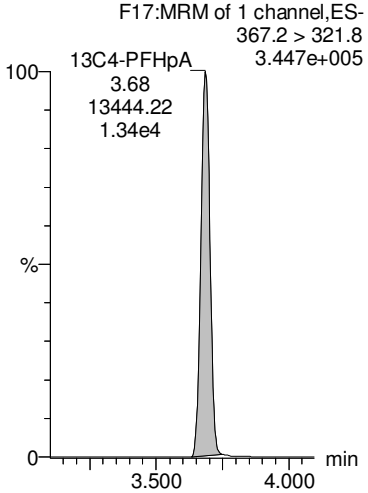
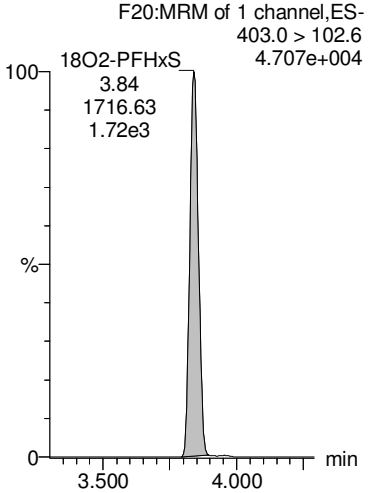


18O2-PFHxS



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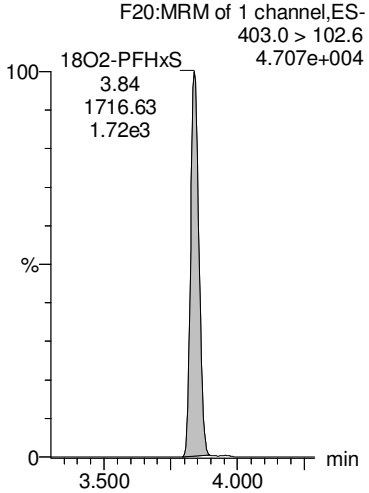
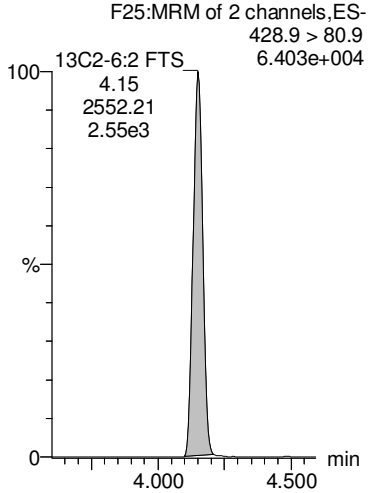


13C2-6:2 FTS



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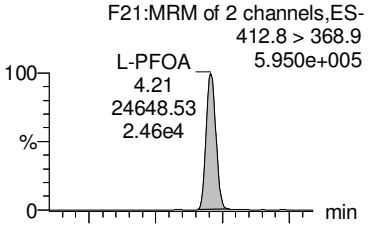
MM 2/24/2019

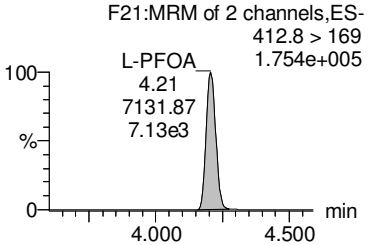
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

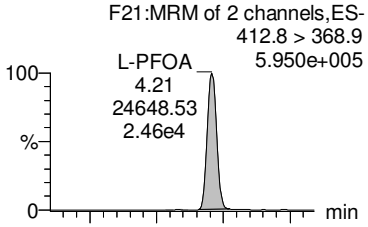
Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

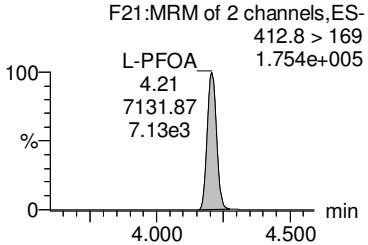
L-PFOA





Total PFOA





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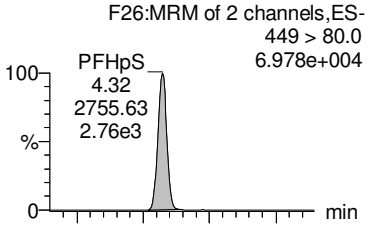
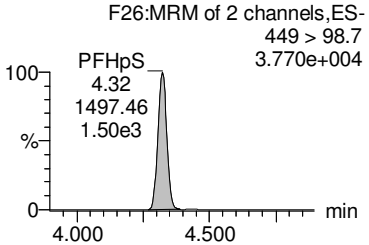
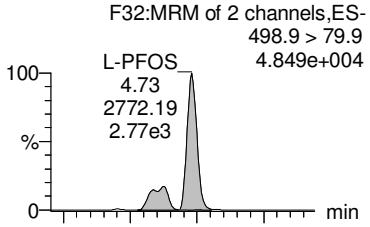
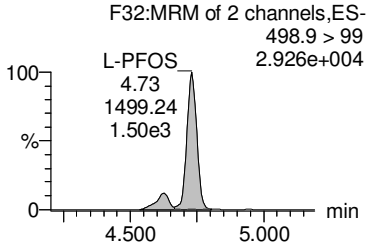




L-PFOS





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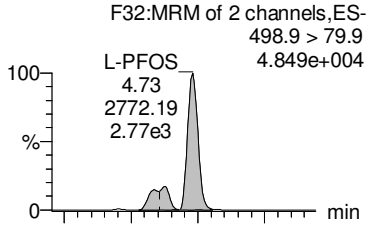

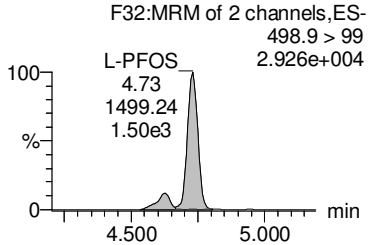

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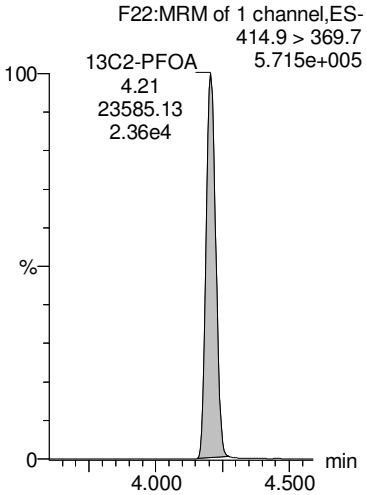

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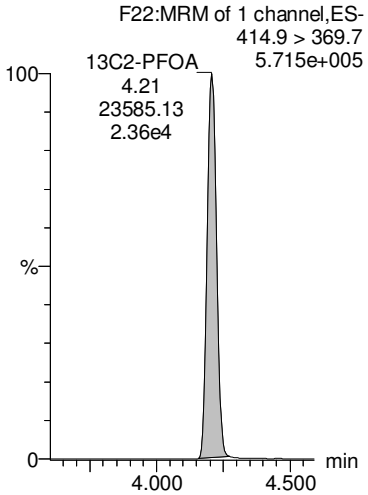

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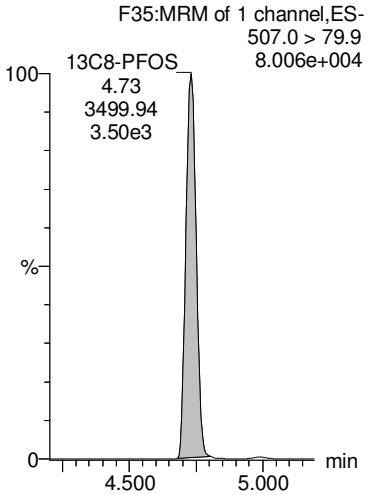

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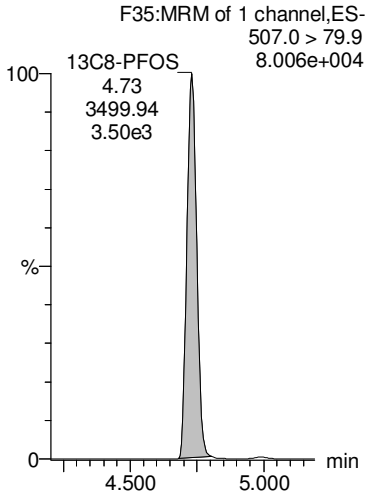

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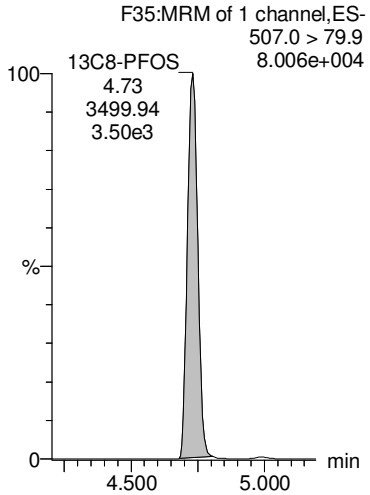

KBF 2/21/2019

MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
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Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

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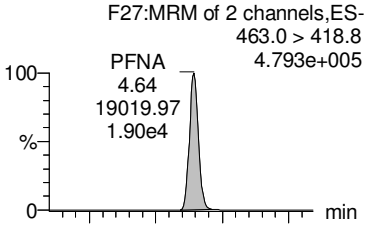
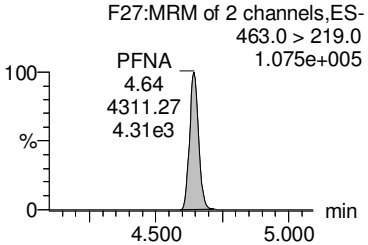
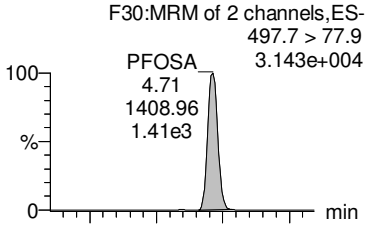
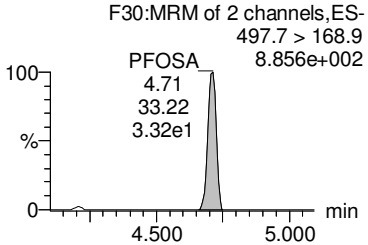


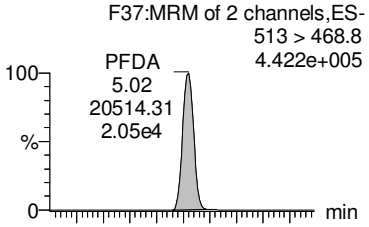


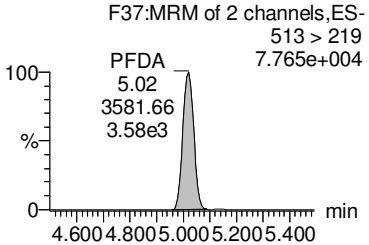
PFOSA



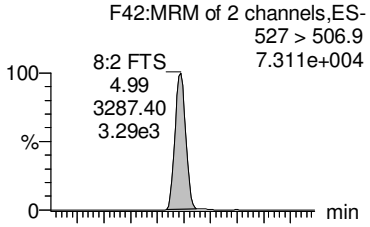


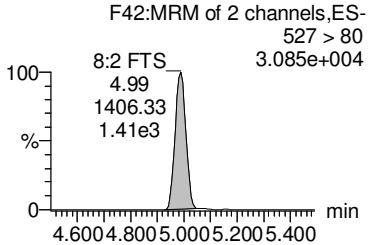
PFDA



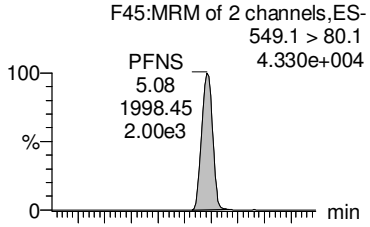


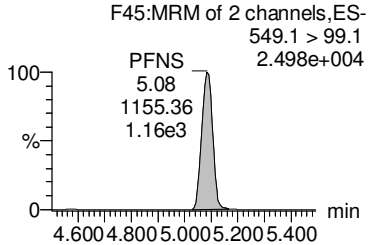
8:2 FTS



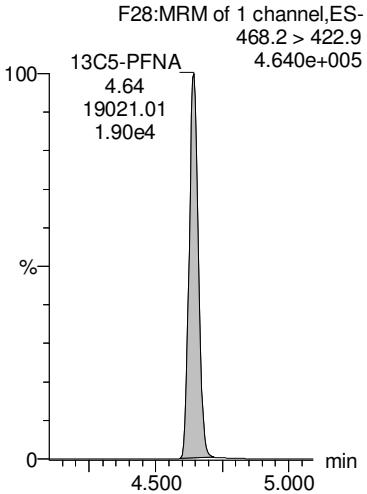


PFNS

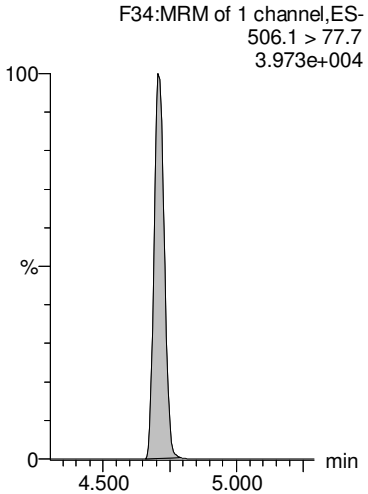




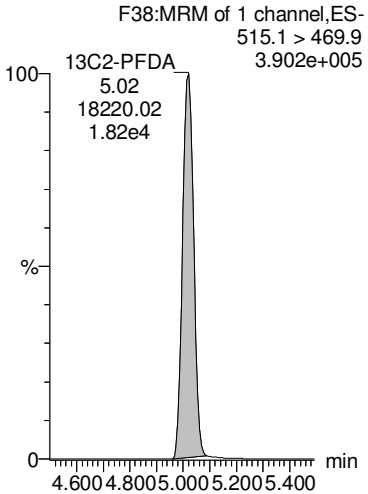
13C5-PFNA



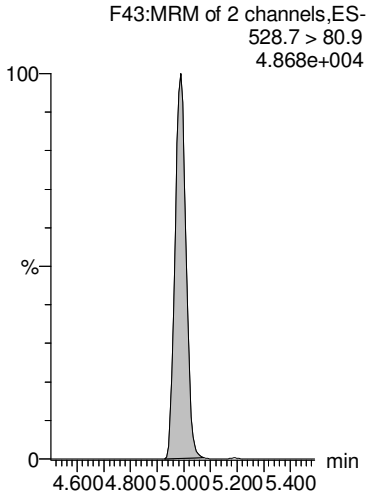
13C8-PFOSA



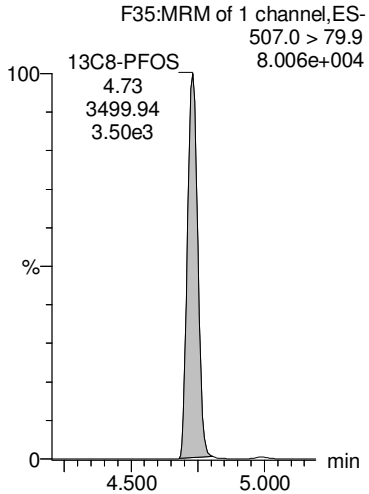
13C2-PFDA



13C2-8:2 FTS



13C8-PFOS



KBF 2/21/2019

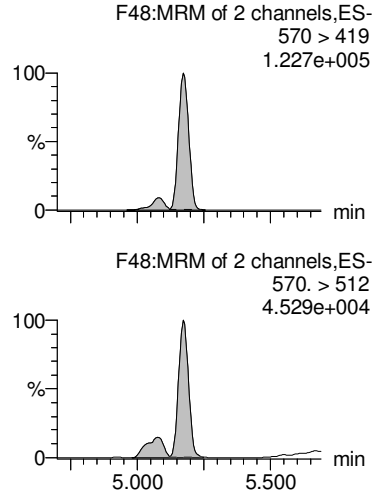
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

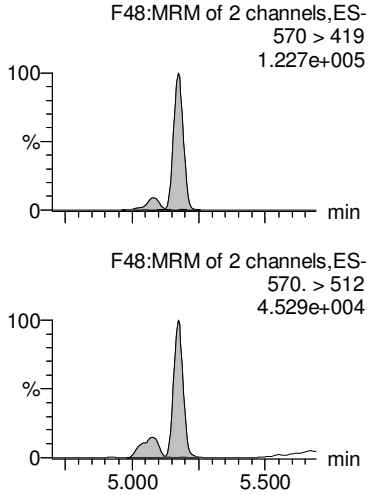
Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

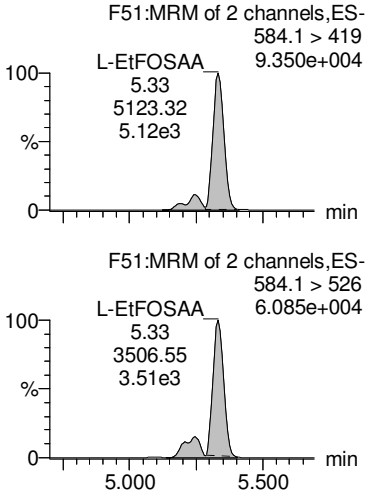
L-MeFOSAA



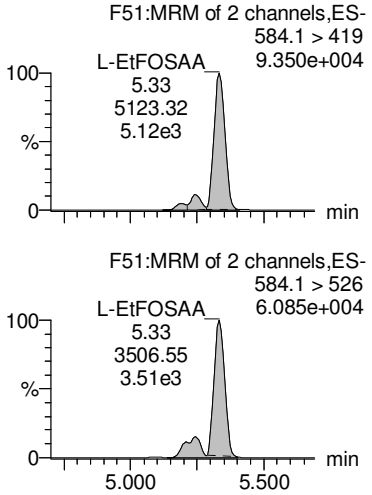
Total N-MeFOSAA



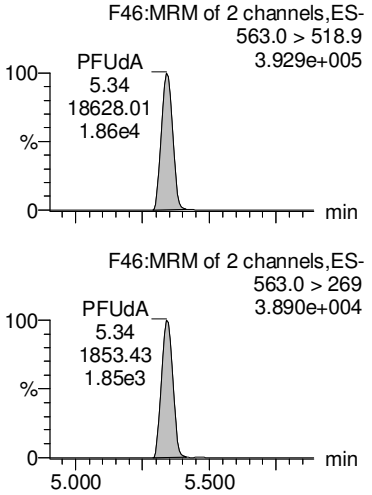
L-EtFOSAA



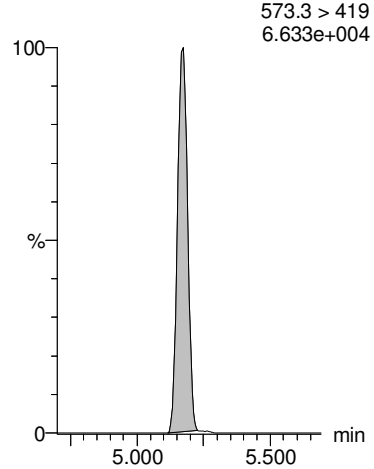
Total N-EtFOSAA



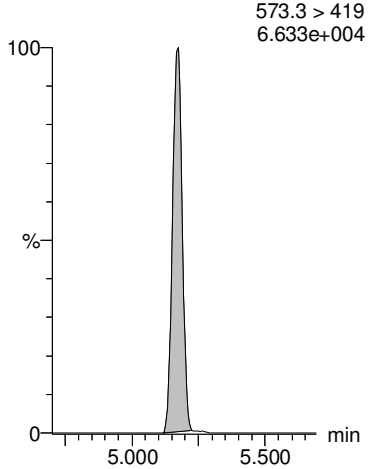
PFUdA



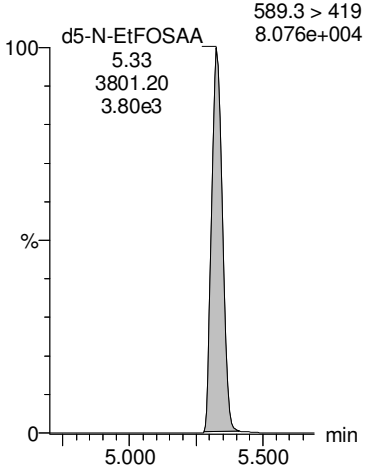
d3-N-MeFOSAA



d3-N-MeFOSAA



d5-N-EtFOSAA



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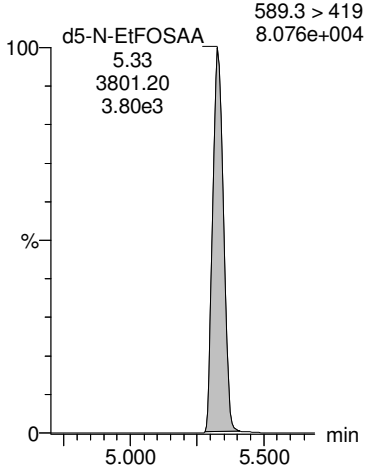
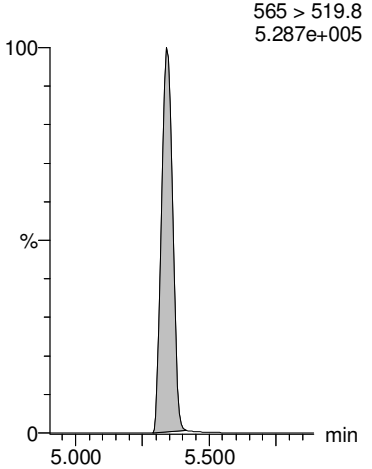


13C2-PFUdA



KBF 2/21/2019

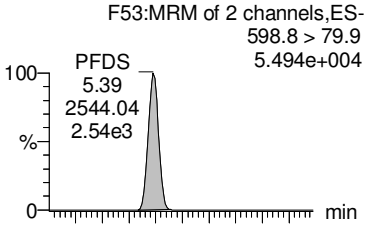
MM 2/24/2019

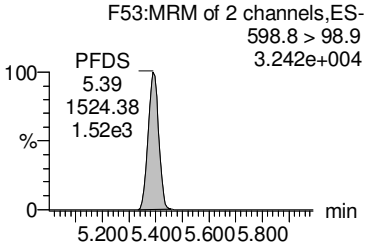
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

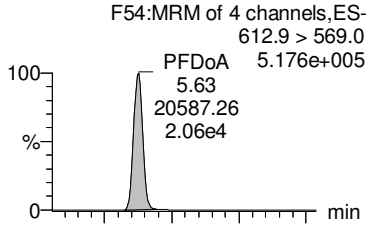
Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

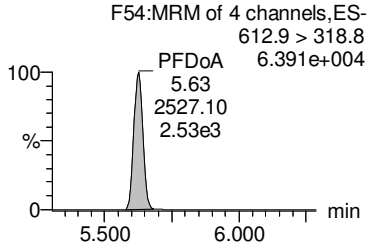
PFDS



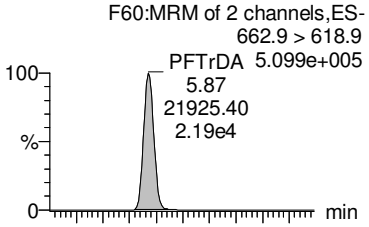


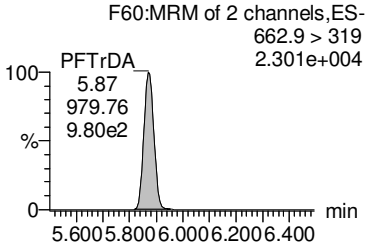
PFDoA



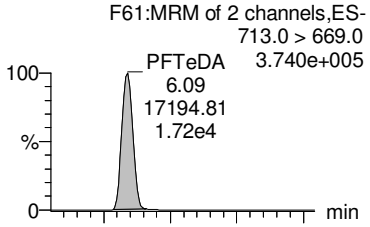


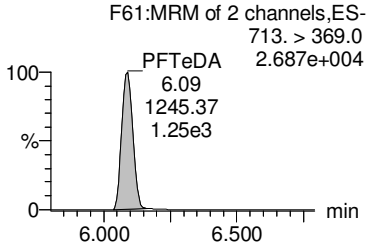
PFTrDA



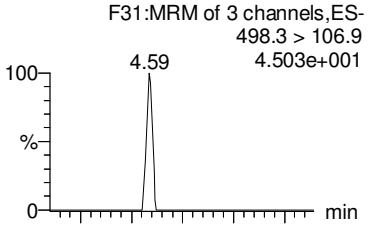


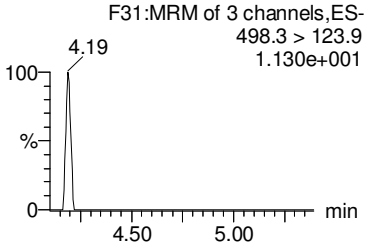
PFTeDA



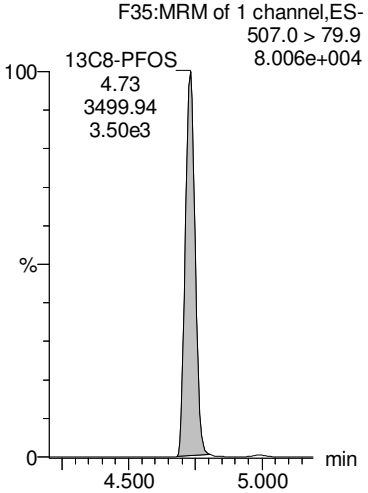


TCDA

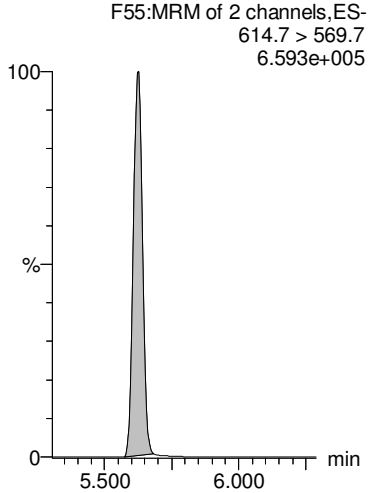




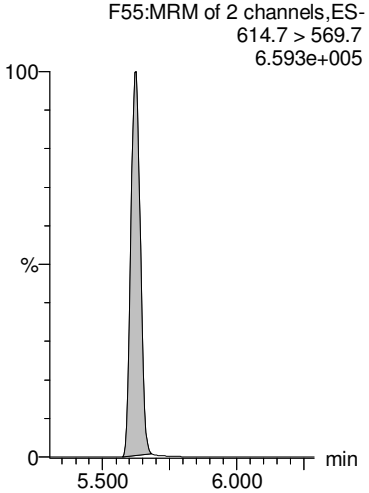
13C8-PFOS



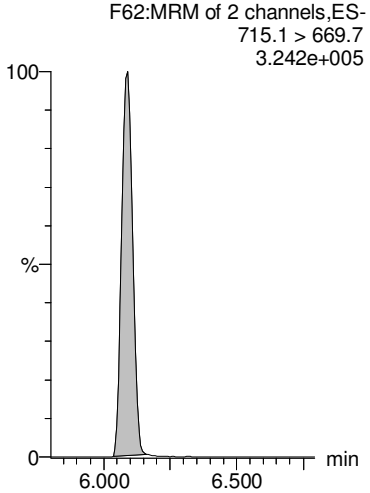
13C2-PFDoA



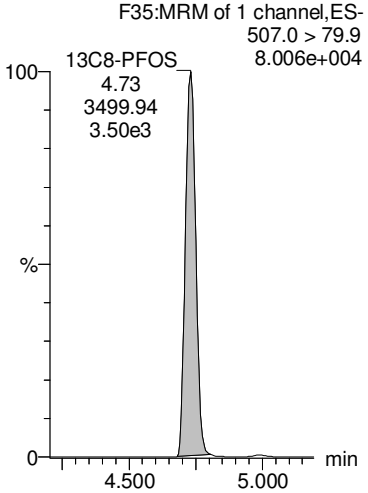
13C2-PFDoA



13C2-PFTeDA



13C8-PFOS



KBF 2/21/2019

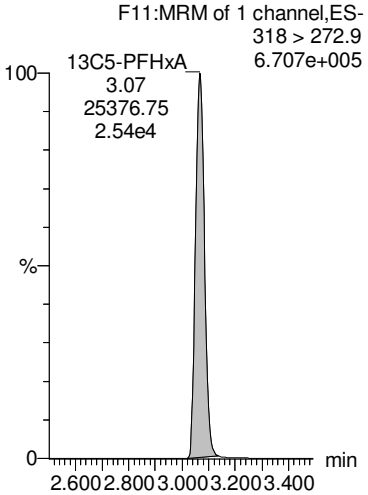
MM 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-15.qld

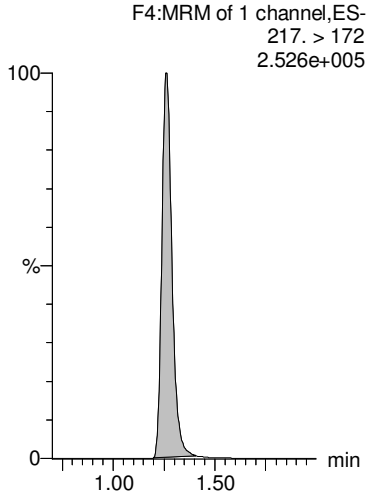
Last Altered: Thursday, February 21, 2019 15:08:43 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:09:19 Pacific Standard Time

Name: 190219M2_15, Date: 19-Feb-2019, Time: 19:08:36, ID: B9B0084-BS1 OPR 0.25, Description: OPR

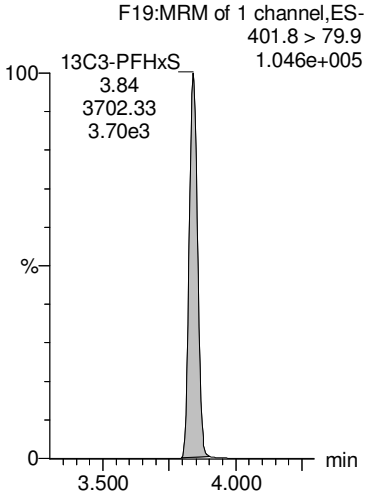
13C5-PFHxA



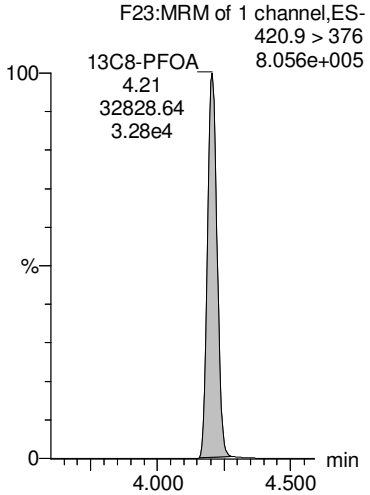
13C4-PFBA



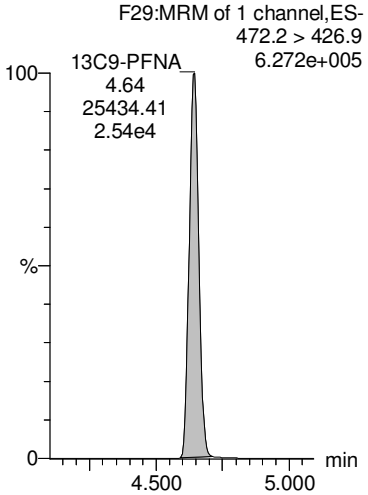
13C3-PFHxS



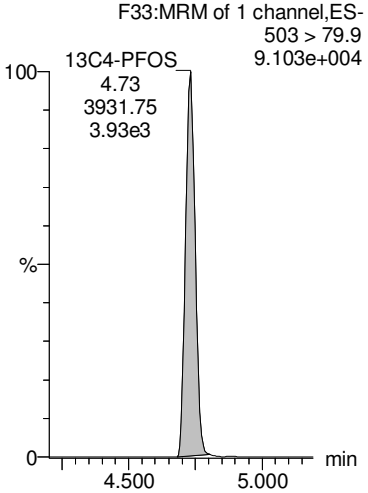
13C8-PFOA



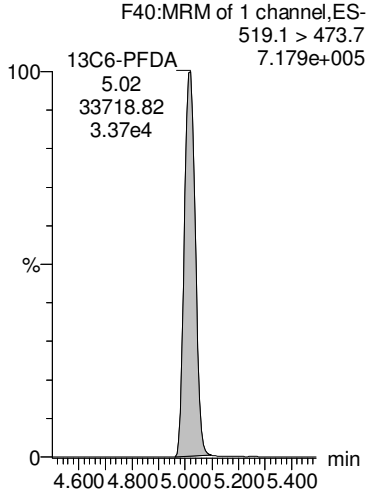
13C9-PFNA



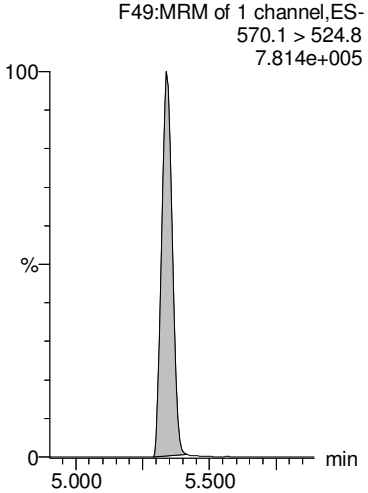
13C4-PFOS



13C6-PFDA



13C7-PFUdA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		7.32e3	0.275		1.25						
2	2	PFPeA	263.1 > 218.9		1.07e4	0.275		2.23						
3	3	PFBS	299.0 > 79.7		1.65e3	0.275		2.54						
4	4	4:2 FTS	327.2>307.2		1.75e3	0.275		2.97						
5	5	PFHxA	313 > 269		7.49e3	0.275		3.06						
6	36	13C3-PFBA	216.1 > 171.8	7.32e3	1.06e4	0.275	0.735	1.27	1.25	8.61	42.6033	93.7		
7	37	13C3-PFPeA	266. > 221.8	1.07e4	2.11e4	0.275	0.571	2.26	2.23	6.36	40.5376	89.1		
8	38	13C3-PFBS	302. > 98.8	1.65e3	3.45e3	0.275	0.539	2.56	2.54	5.97	40.3019	88.6		
9	39	13C2-4:2 FTS	328.9>81.0	1.75e3	3.45e3	0.275	0.625	2.98	2.97	6.34	36.9241	81.2		
10	40	13C2-PFHxA	315 > 270	7.49e3	2.11e4	0.275	0.962	3.07	3.06	4.45	16.8085	92.4		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.23e4	0.275		3.68						
13	6	PFPeS	349.1>80.1		1.65e3	0.275		3.25						
14	8	L-PFHxS	398.9 > 79.6	2.35e2	1.64e3	0.275		3.84	3.83	1.79	3.7230		1.90	NO
15	9	Br-PFHxS	398.9 > 79.6		1.64e3	0.275		3.74						
16	68	Total PFHxS	398.9 > 79.6	2.35e2	1.64e3	0.275		3.87		1.79	3.7230			
17	41	13C4-PFHpA	367.2 > 321.8	1.23e4	2.11e4	0.275	0.562	3.68	3.68	7.28	47.0850	103.5		
18	38	13C3-PFBS	302. > 98.8	1.65e3	3.45e3	0.275	0.539	2.56	2.54	5.97	40.3019	88.6		
19	42	18O2-PFHxS	403.0 > 102.6	1.64e3	3.45e3	0.275	0.502	3.84	3.83	5.94	43.0184	94.6		
20	42	18O2-PFHxS	403.0 > 102.6	1.64e3	3.45e3	0.275	0.502	3.84	3.83	5.94	43.0184	94.6		
21	42	18O2-PFHxS	403.0 > 102.6	1.64e3	3.45e3	0.275	0.502	3.84	3.83	5.94	43.0184	94.6		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.49e3	0.275		4.15						
24	13	PFHpS	449 > 80.0		4.00e3	0.275		4.32						
25	11	L-PFOA	412.8 > 368.9	9.43e2	2.31e4	0.275		4.20	4.21	0.511	1.3917		4.14	NO
26	12	Br-PFOA	412.8 > 368.9	3.18e2	2.31e4	0.275		4.10	4.07	0.172	0.4550		4.55	NO
27	69	Total PFOA	412.8 > 368.9	1.26e3	2.31e4	0.275		4.21		0.683	1.8466			
28	43	13C2-6:2 FTS	428.9>80.9	2.49e3	3.98e3	0.275	0.673	4.15	4.15	7.84	42.3699	93.2		
29	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
30	44	13C2-PFOA	414.9 > 369.7	2.31e4	3.08e4	0.275	0.819	4.21	4.21	9.36	41.5613	91.4		
31	44	13C2-PFOA	414.9 > 369.7	2.31e4	3.08e4	0.275	0.819	4.21	4.21	9.36	41.5613	91.4		
32	44	13C2-PFOA	414.9 > 369.7	2.31e4	3.08e4	0.275	0.819	4.21	4.21	9.36	41.5613	91.4		
33	-1													
34	14	PFNA	463.0 > 418.8		2.15e4	0.275		4.64						
35	15	PFOSA	497.7 > 77.9		1.94e3	0.275		4.71						
36	16	L-PFOS	498.9 > 79.9	3.47e1	4.00e3	0.275		4.72	4.73	0.109	0.4775		1.24	NO

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9	5.32e2	4.00e3	0.275		4.62	4.59	1.66	5.6303		0.812	NO
38	70	Total PFOS	498.9 > 79.9	5.67e2	4.00e3	0.275		4.74		1.77	6.1078			
39	45	13C5-PFNA	468.2 > 422.9	2.15e4	2.51e4	0.275	0.991	4.64	4.64	10.7	39.4204	86.7		
40	46	13C8-PFOSA	506.1 > 77.7	1.94e3	3.58e4	0.275	0.082	4.71	4.71	0.678	30.1932	66.4		
41	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
42	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
43	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
44	-1													
45	18	PFDA	513 > 468.8		1.94e4	0.275		5.02						
46	19	8:2 FTS	527 > 506.9		2.49e3	0.275		4.99						
47	20	PFNS	549.1 > 80.1		4.00e3	0.275		5.08						
48	26	PFDS	598.8 > 79.9		4.00e3	0.275		5.39						
49	25	PFUdA	563.0 > 518.9	1.13e2	2.69e4	0.275		5.34	5.34	0.0528	0.1699		95.3	YES
50	48	13C2-PFDA	515.1 > 469.9	1.94e4	3.18e4	0.275	0.768	5.02	5.02	7.62	36.0707	79.3		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.49e3	3.98e3	0.275	0.720	4.99	4.99	7.81	39.4630	86.8		
52	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
53	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
54	51	13C2-PFUdA	565 > 519.8	2.69e4	3.58e4	0.275	0.941	5.34	5.34	9.38	36.2648	79.7		
55	-1													
56	21	L-MeFOSAA	570 > 419	1.01e0	2.83e3	0.275		5.17	5.17	0.00445	0.0467		0.380	YES
57	22	Br-MeFOSAA	570. > 419		2.83e3	0.275		5.07						
58	71	Total N-MeFOSAA	570. > 419	1.01e0	2.83e3	0.275		5.33		0.00445	0.0467			
59	29	PFTrDA	662.9 > 618.9		2.74e4	0.275		5.87						
60	30	PFTeDA	713.0 > 669.0		1.98e4	0.275		6.09						
61	50	d3-N-MeFOSAA	573.3 > 419	2.83e3	3.58e4	0.275	0.110	5.17	5.17	0.988	32.6159	71.7		
62	50	d3-N-MeFOSAA	573.3 > 419	2.83e3	3.58e4	0.275	0.110	5.17	5.17	0.988	32.6159	71.7		
63	50	d3-N-MeFOSAA	573.3 > 419	2.83e3	3.58e4	0.275	0.110	5.17	5.17	0.988	32.6159	71.7		
64	53	13C2-PFDoA	614.7 > 569.7	2.74e4	3.18e4	0.275	1.175	5.62	5.62	10.8	33.3006	73.2		
65	55	13C2-PFTeDA	715.1 > 669.7	1.98e4	3.58e4	0.275	0.696	6.09	6.09	6.93	36.1911	79.6		
66	-1													
67	23	L-EtFOSAA	584.1 > 419	3.47e-1	4.14e3	0.275		5.33	5.33	0.00105	0.2042		0.293	YES
68	24	Br-ETFOSAA	584.1 > 419		4.14e3	0.275		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	3.47e-1	4.14e3	0.275		5.49		0.00105	0.2042			
70	27	PFDoA	612.9 > 569.0	2.90e1	2.74e4	0.275		5.63	5.63	0.0132	0.1914		26.0	YES
71	73	TCDA	498.3>106.9			0.275		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	4.14e3	3.58e4	0.275	0.145	5.33	5.33	1.45	36.3473	79.9		

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Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	4.14e3	3.58e4	0.275	0.145	5.33	5.33	1.45	36.3473	79.9		
74	52	d5-N-EtFOSAA	589.3 > 419	4.14e3	3.58e4	0.275	0.145	5.33	5.33	1.45	36.3473	79.9		
75	53	13C2-PFDoA	614.7 > 569.7	2.74e4	3.18e4	0.275	1.175	5.62	5.62	10.8	33.3006	73.2		
76	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.98e3	0.275	1.068	4.73	4.73	12.6	42.7931	94.1		
77	-1													
78	60	13C4-PFBA	217. > 172	1.06e4	1.06e4	0.275	1.000	1.26	1.25	12.5	45.4777	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.11e4	2.11e4	0.275	1.000	3.07	3.05	12.5	45.4777	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.45e3	3.45e3	0.275	1.000	3.84	3.83	12.5	45.4777	100.0		
81	63	13C8-PFOA	420.9 > 376	3.08e4	3.08e4	0.275	1.000	4.21	4.20	12.5	45.4777	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.51e4	2.51e4	0.275	1.000	4.64	4.64	12.5	45.4777	100.0		
83	65	13C4-PFOS	503 > 79.9	3.98e3	3.98e3	0.275	1.000	4.73	4.73	12.5	45.4777	100.0		
84	66	13C6-PFDA	519.1 > 473.7	3.18e4	3.18e4	0.275	1.000	5.01	5.02	12.5	45.4777	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.58e4	3.58e4	0.275	1.000	5.34	5.34	12.5	45.4777	100.0		

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
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Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

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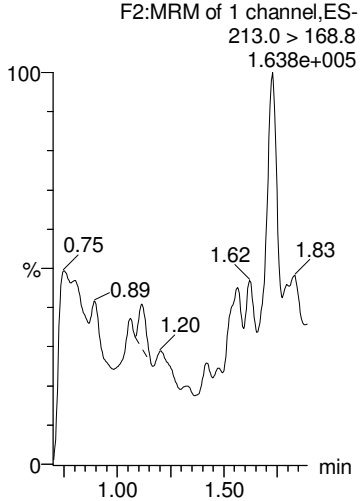

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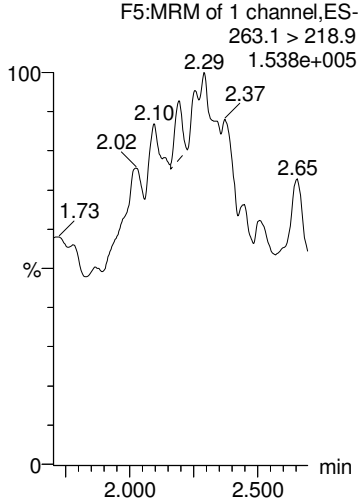

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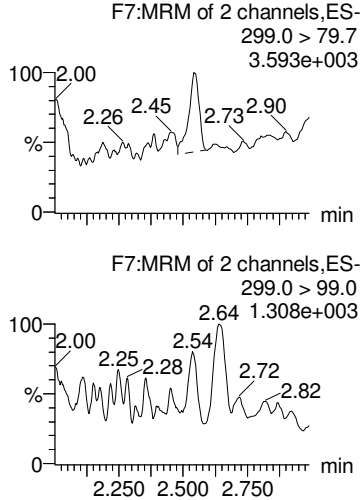

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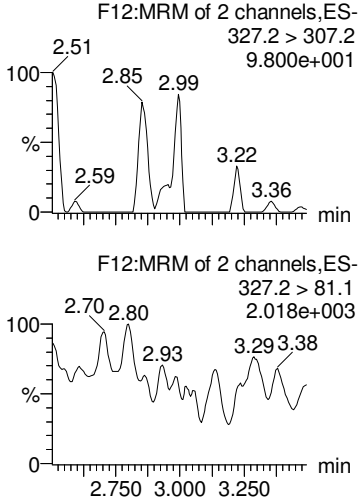

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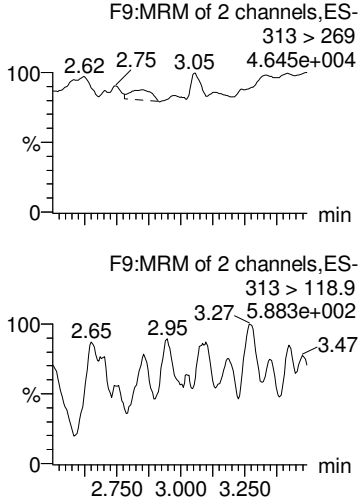

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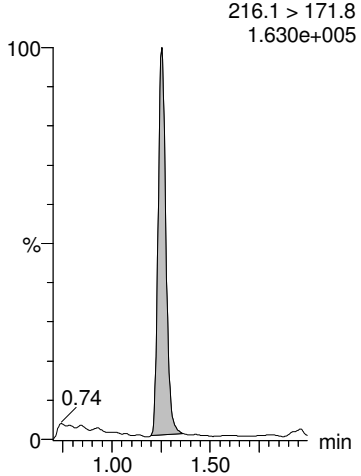

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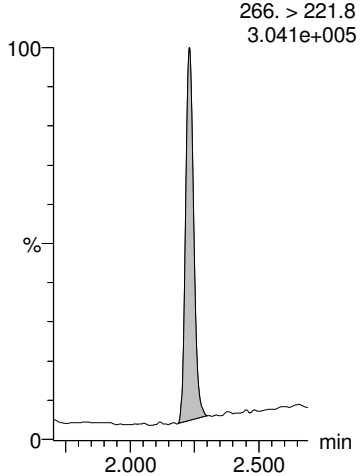

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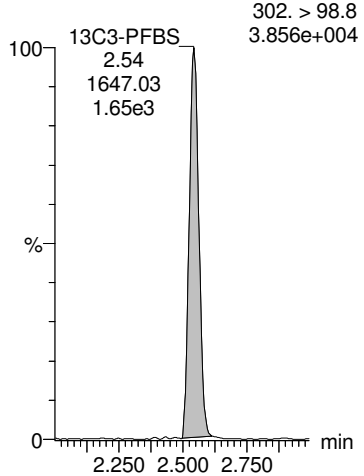

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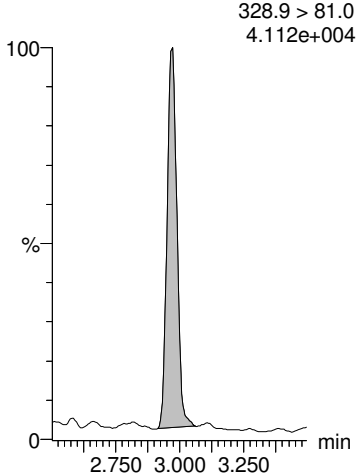

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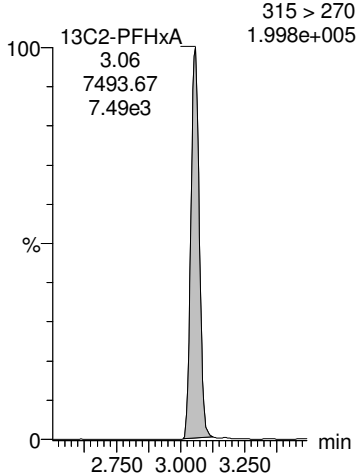

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

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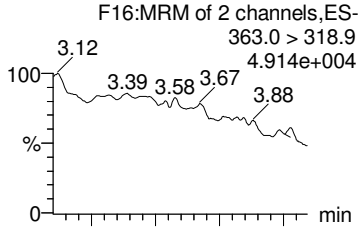

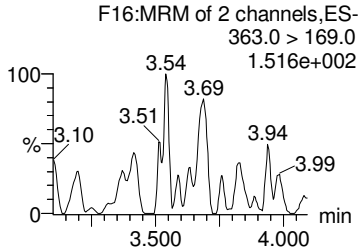

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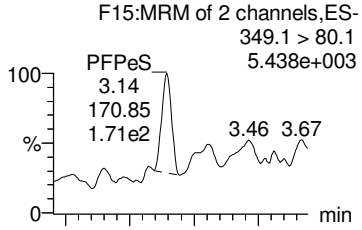
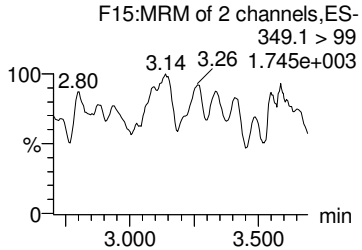
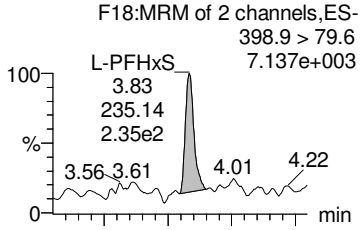
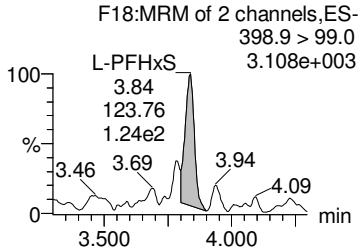




L-PFHxS





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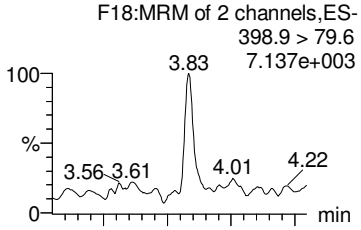

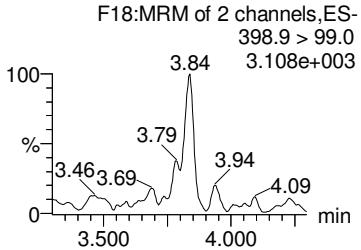

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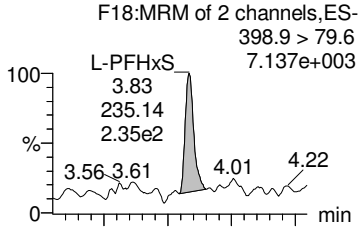

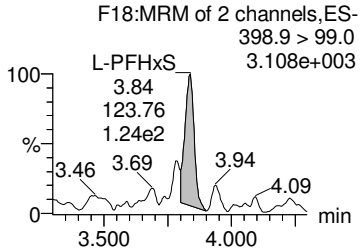

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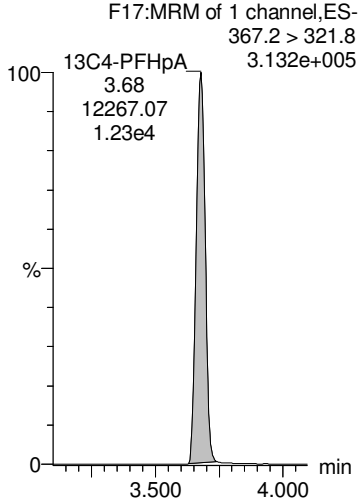

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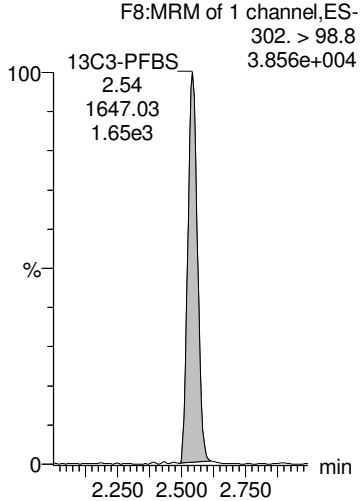

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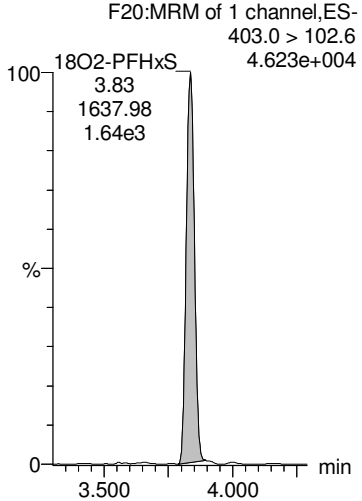

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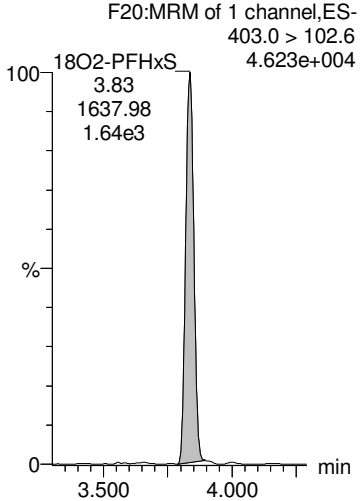

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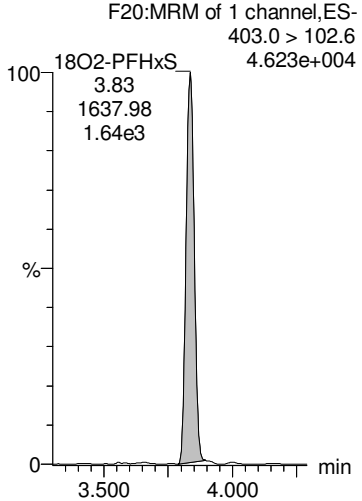

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
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Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

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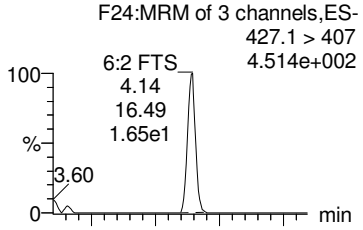

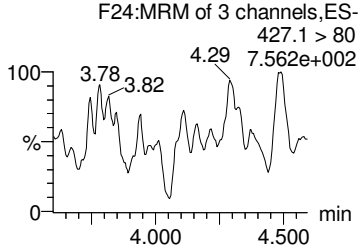

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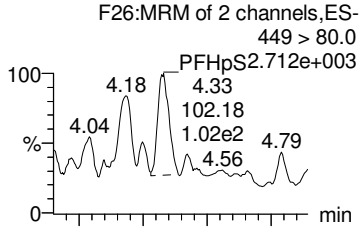
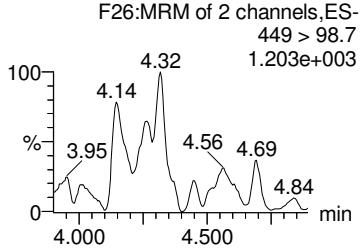
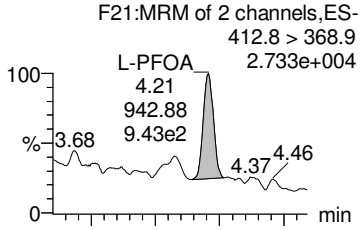
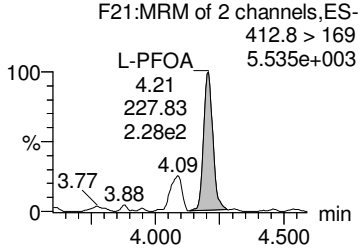


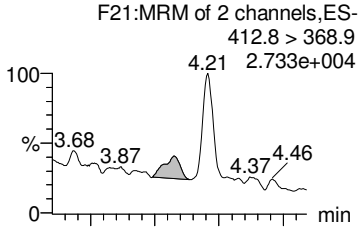


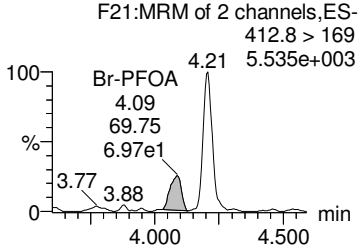
L-PFOA



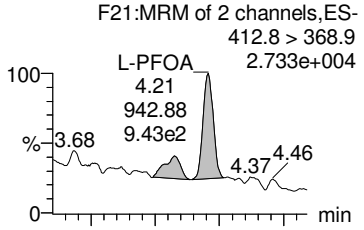


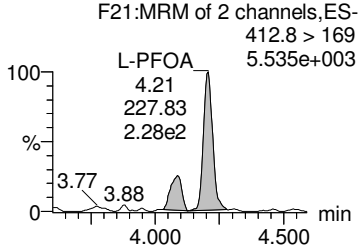
Br-PFOA



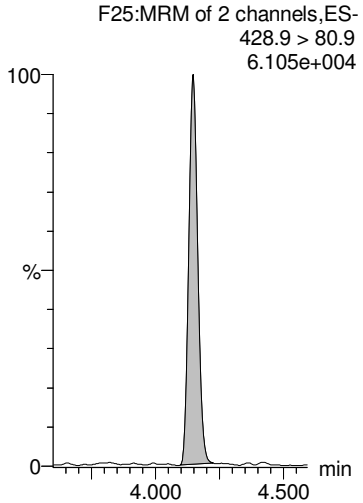


Total PFOA

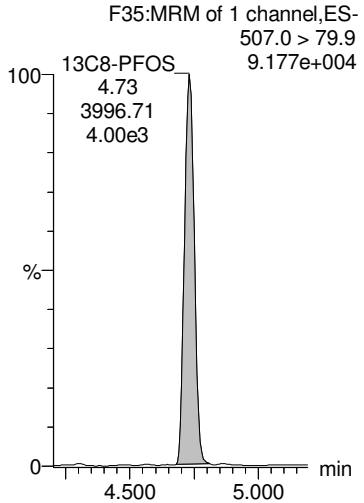




13C2-6:2 FTS



13C8-PFOS



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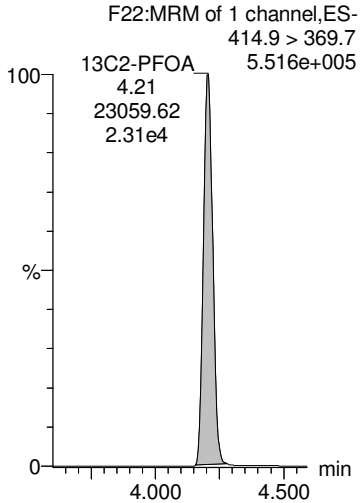

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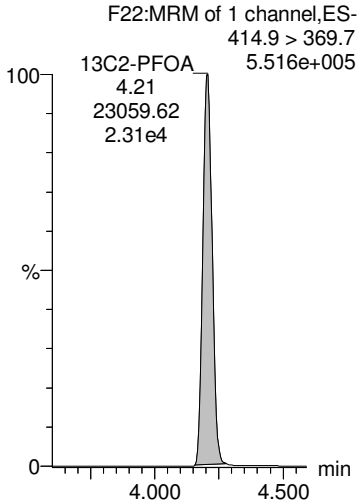

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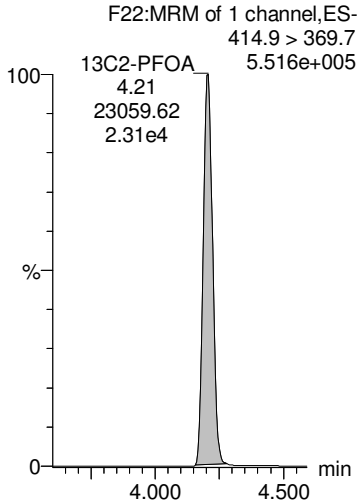

KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

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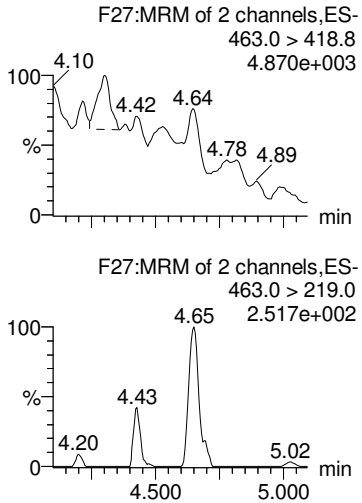

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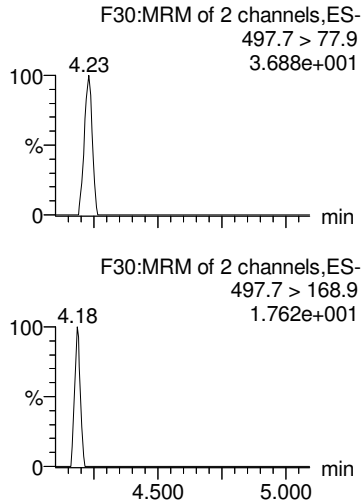
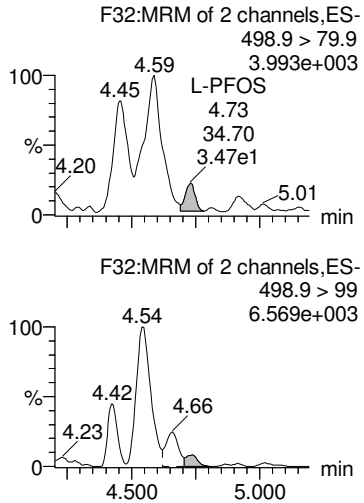
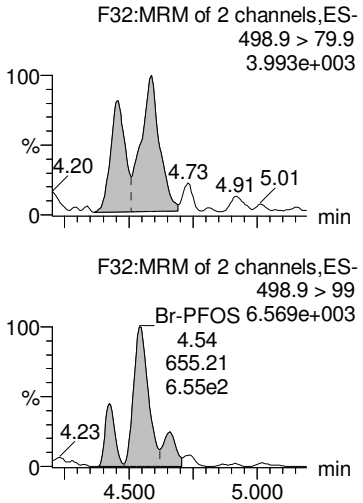


L-PFOS



Br-PFOS



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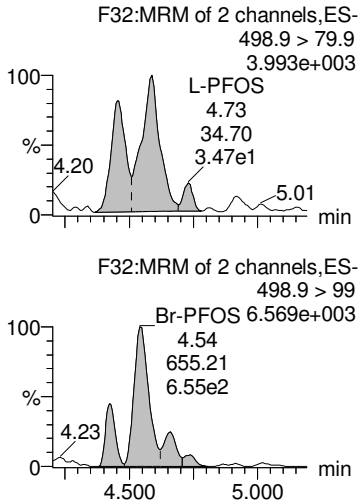
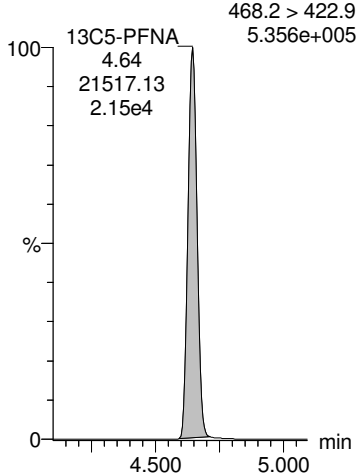
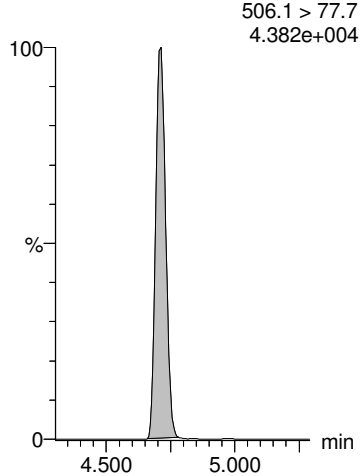


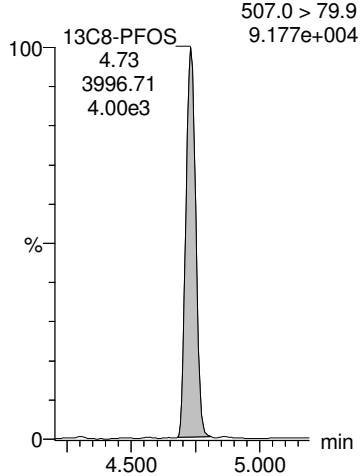
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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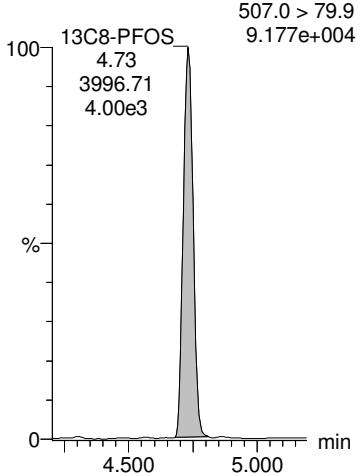

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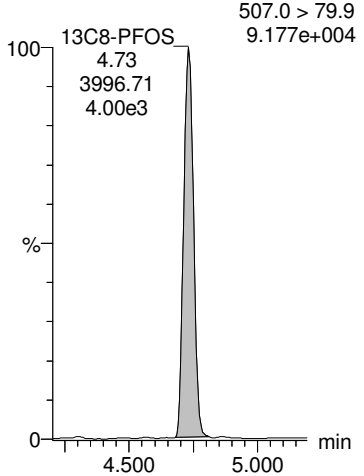

KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

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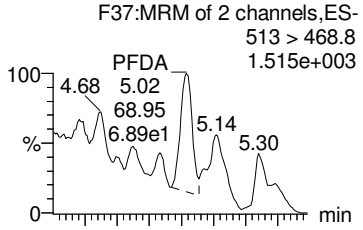
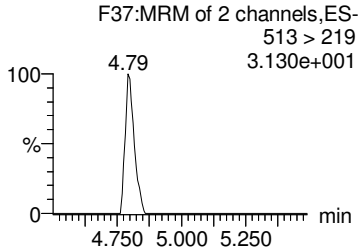
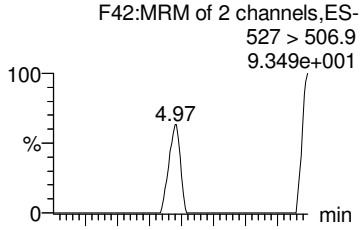
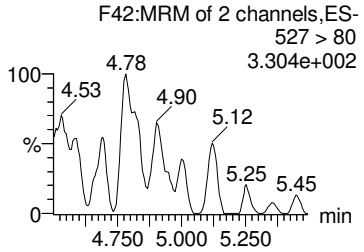


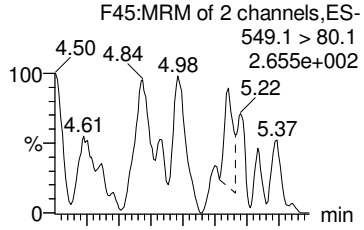


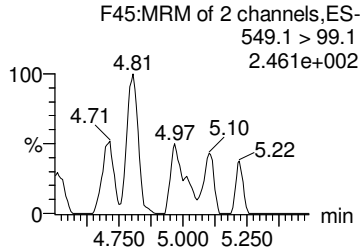
8:2 FTS



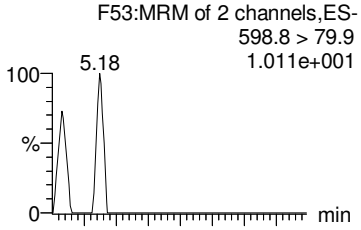


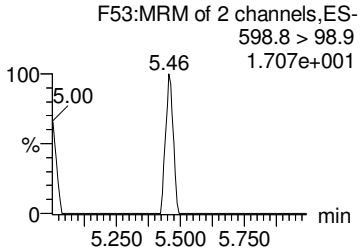
PFNS





PFDS





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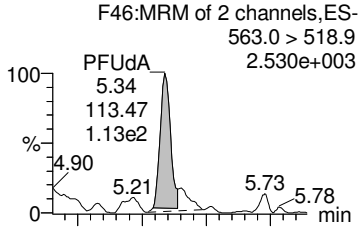
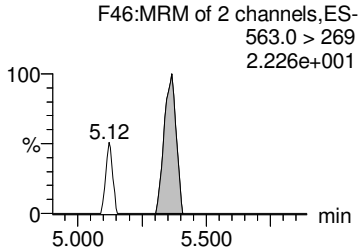
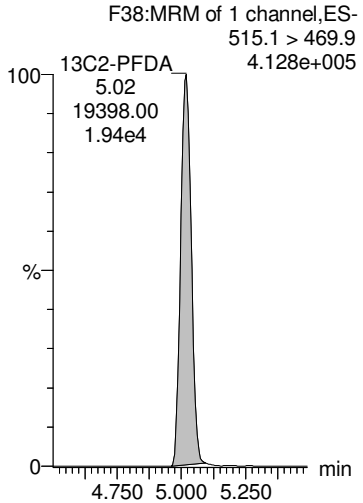
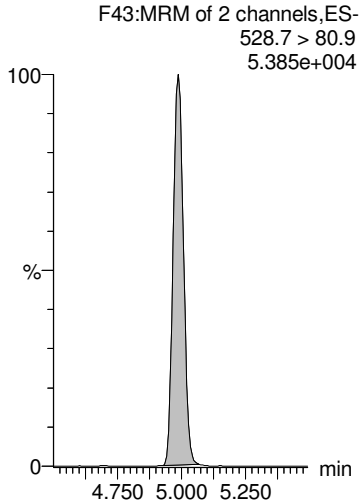




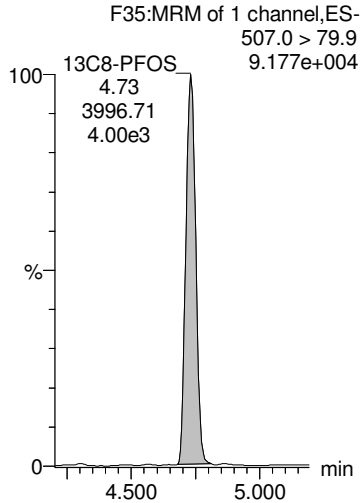
13C2-PFDA



13C2-8:2 FTS



13C8-PFOS



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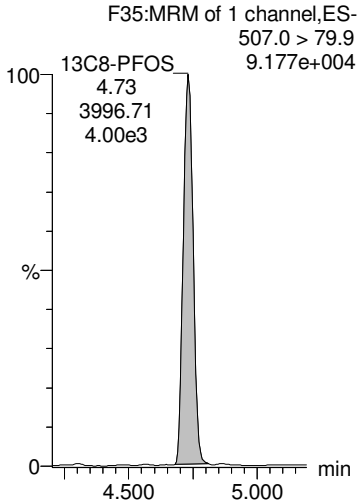

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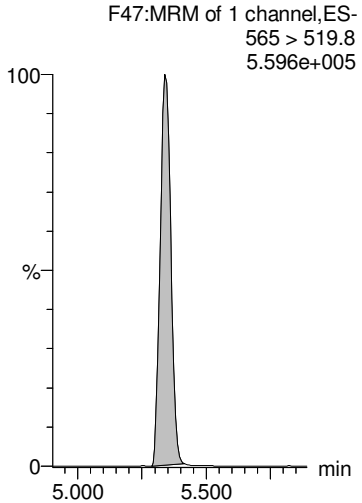


KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

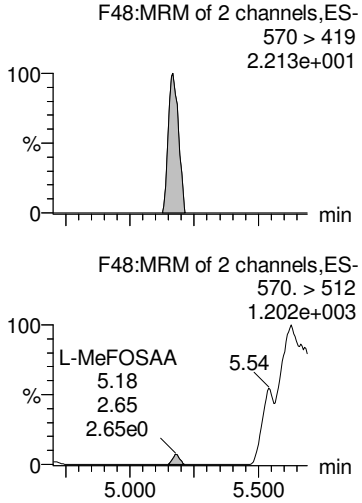
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

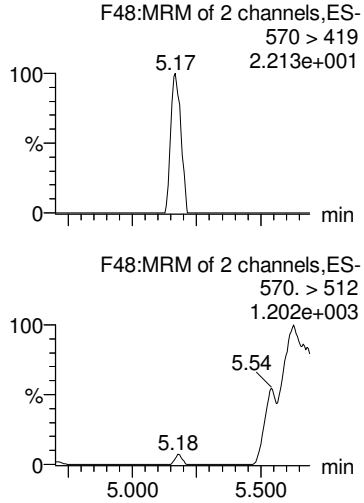
Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

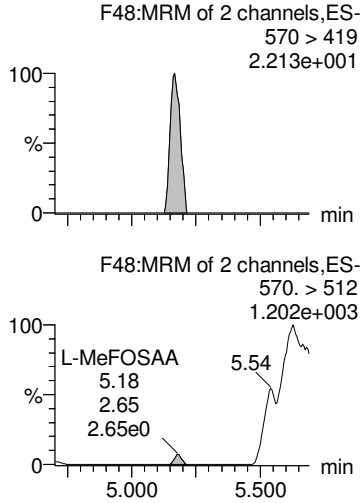
L-MeFOSAA



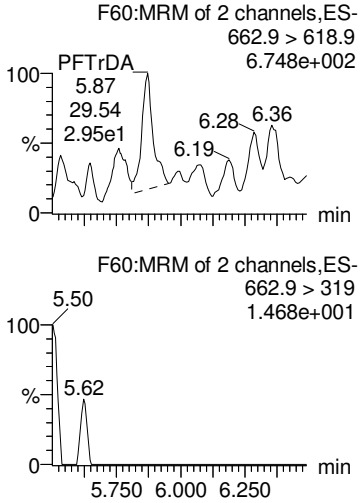
Br-MeFOSAA



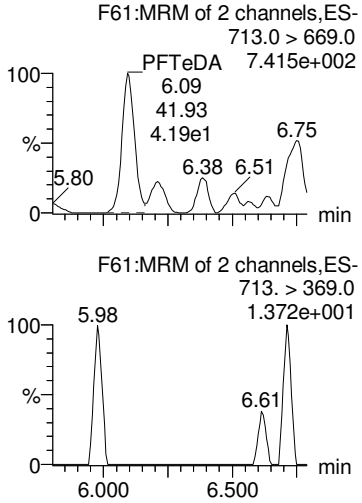
Total N-MeFOSAA



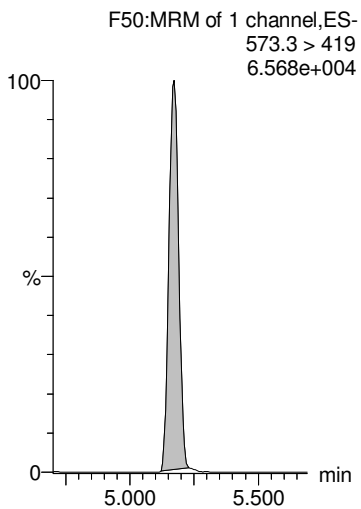
PFTrDA



PFTeDA



d3-N-MeFOSAA



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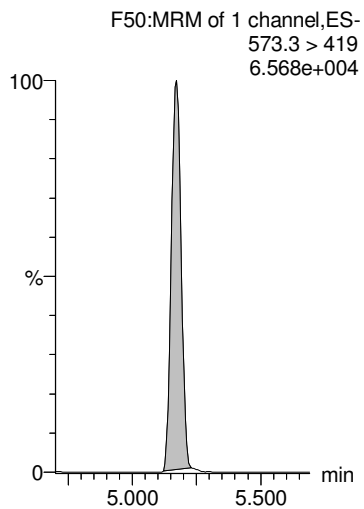

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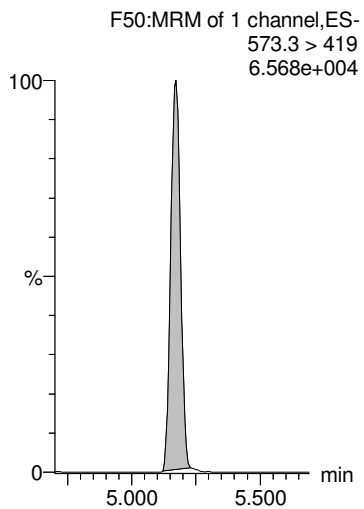
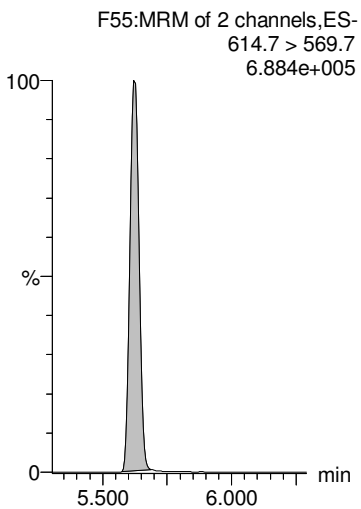
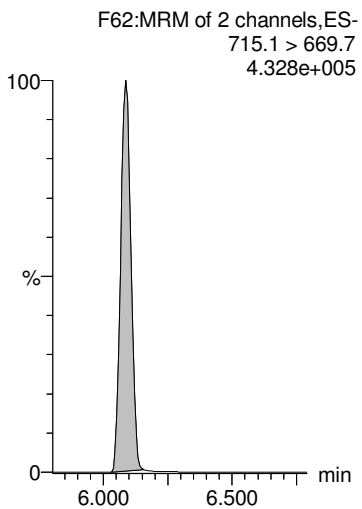


13C2-PFDoA



13C2-PFTeDA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

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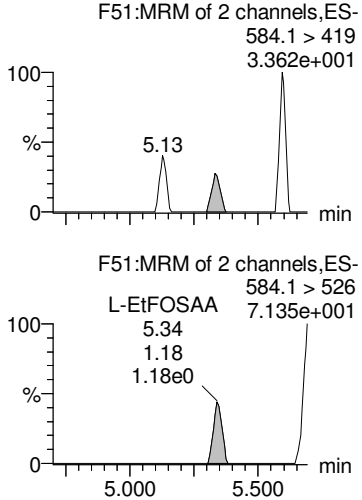
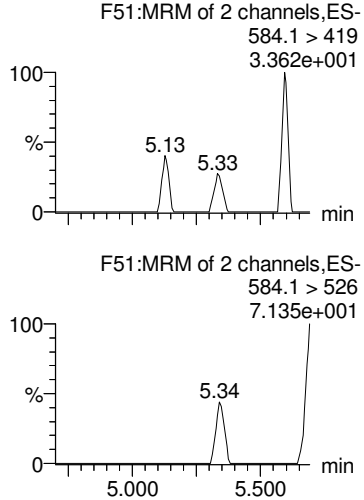


Br-ETFOSAA



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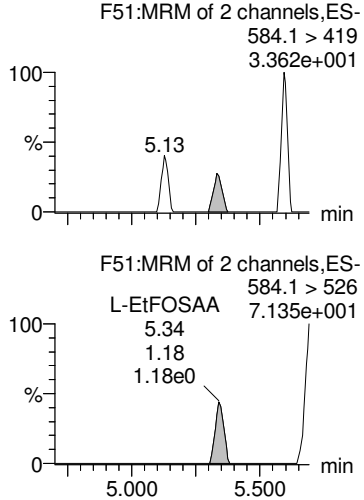

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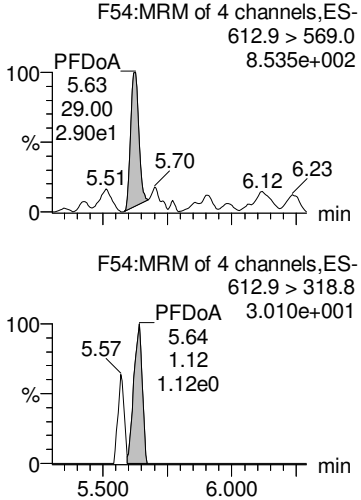
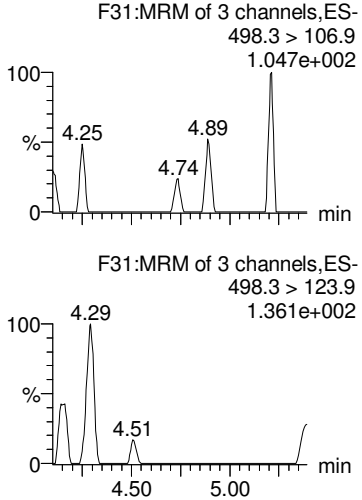
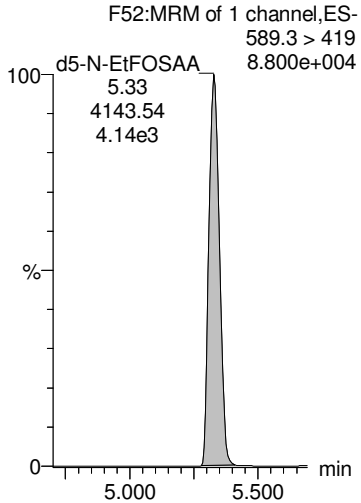


TCDA



d5-N-EtFOSAA



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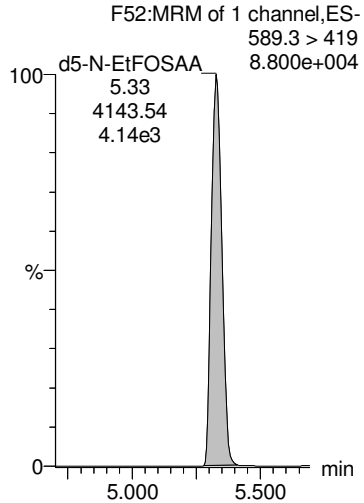

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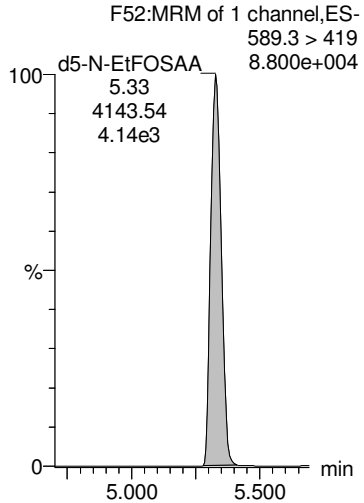
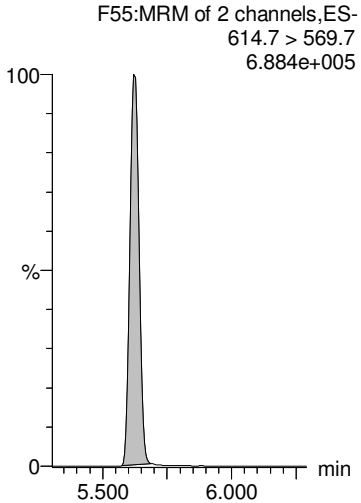
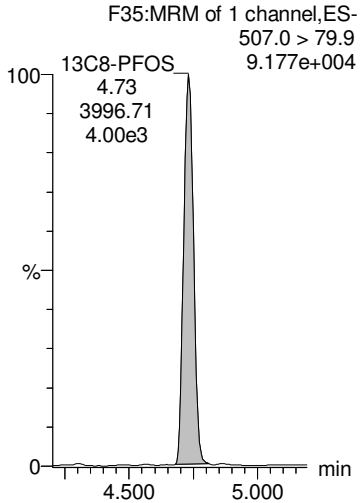


13C2-PFDoA



13C8-PFOS



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Vista Analytical Laboratory L24 LBT

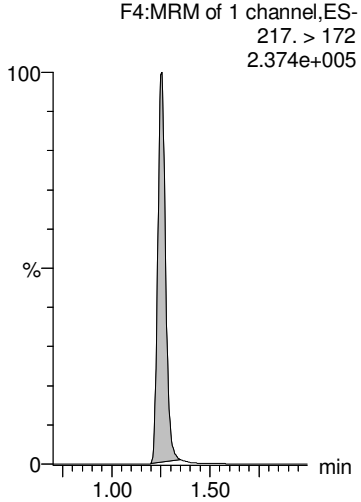
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-17.qld

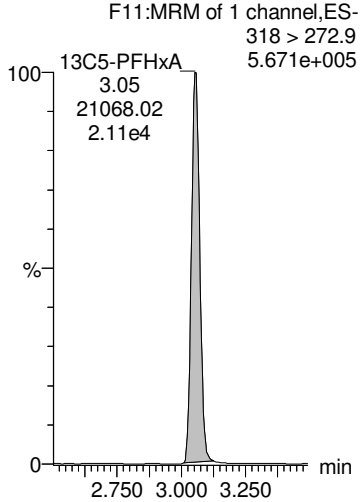
Last Altered: Thursday, February 21, 2019 15:17:17 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:17:31 Pacific Standard Time

Name: 190219M2_17, Date: 19-Feb-2019, Time: 19:29:47, ID: 1900272-01 SFMW-04i 0.27486, Description: SFMW-04i

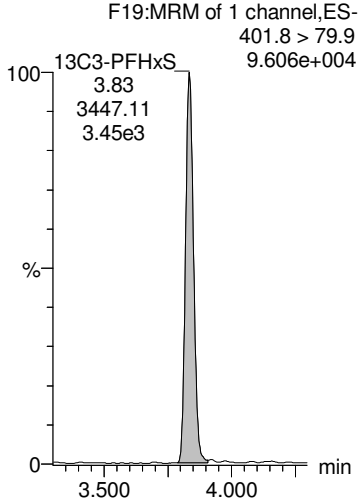
13C4-PFBA



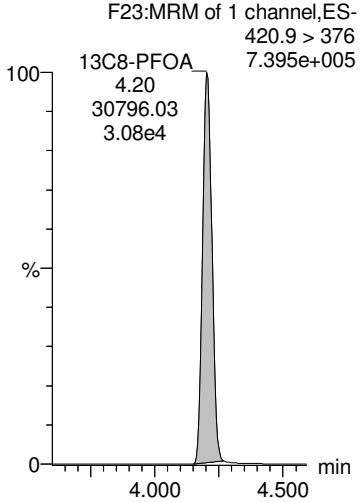
13C5-PFHxA



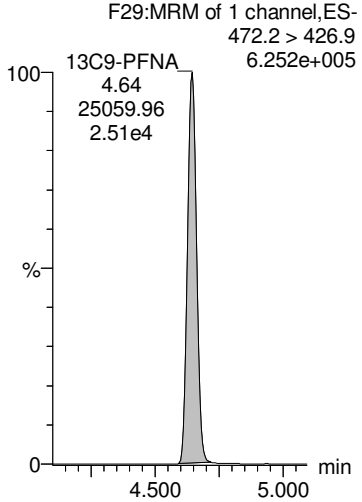
13C3-PFHxS



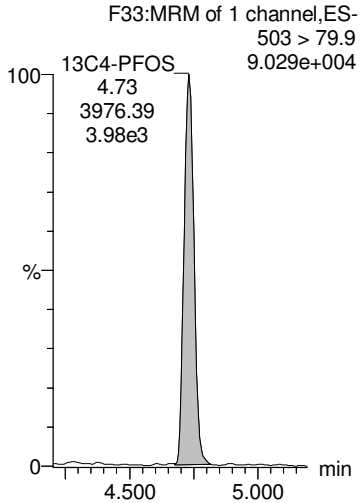
13C8-PFOA



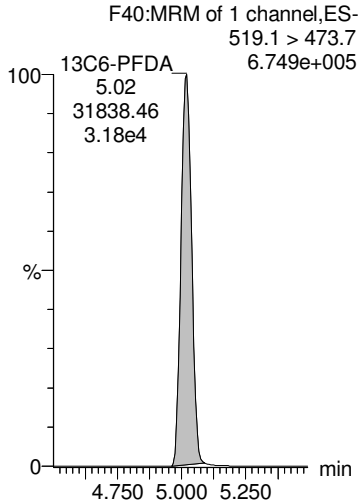
13C9-PFNA



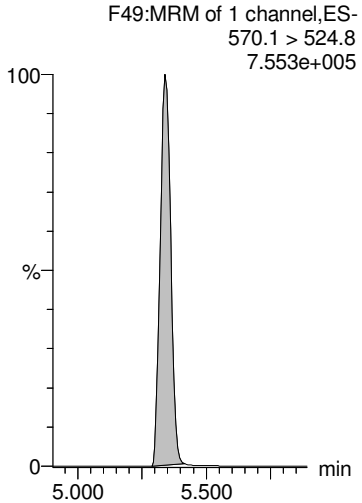
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		7.62e3	0.249		1.25						
2	2	PFPeA	263.1 > 218.9		1.08e4	0.249		2.22						
3	3	PFBS	299.0 > 79.7		1.74e3	0.249		2.53						
4	4	4:2 FTS	327.2>307.2		2.01e3	0.249		2.95						
5	5	PFHxA	313 > 269		7.15e3	0.249		3.04						
6	36	13C3-PFBA	216.1 > 171.8	7.62e3	1.11e4	0.249	0.735	1.27	1.25	8.55	46.7897	93.0		
7	37	13C3-PFPeA	266. > 221.8	1.08e4	1.98e4	0.249	0.571	2.26	2.22	6.82	48.0090	95.5		
8	38	13C3-PFBS	302. > 98.8	1.74e3	3.68e3	0.249	0.539	2.56	2.53	5.92	44.1416	87.8		
9	39	13C2-4:2 FTS	328.9>81.0	2.01e3	3.68e3	0.249	0.625	2.98	2.95	6.84	44.0199	87.5		
10	40	13C2-PFHxA	315 > 270	7.15e3	1.98e4	0.249	0.962	3.07	3.04	4.52	18.8996	94.0		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.24e4	0.249		3.65						
13	6	PFPeS	349.1>80.1		1.74e3	0.249		3.24						
14	8	L-PFHxS	398.9 > 79.6		1.76e3	0.249		3.81						
15	9	Br-PFHxS	398.9 > 79.6		1.76e3	0.249		3.74						
16	68	Total PFHxS	398.9 > 79.6	0.00e0	1.76e3	0.249		3.87		0.000				
17	41	13C4-PFHpA	367.2 > 321.8	1.24e4	1.98e4	0.249	0.562	3.68	3.65	7.84	56.0586	111.5		
18	38	13C3-PFBS	302. > 98.8	1.74e3	3.68e3	0.249	0.539	2.56	2.53	5.92	44.1416	87.8		
19	42	18O2-PFHxS	403.0 > 102.6	1.76e3	3.68e3	0.249	0.502	3.84	3.81	5.98	47.9314	95.3		
20	42	18O2-PFHxS	403.0 > 102.6	1.76e3	3.68e3	0.249	0.502	3.84	3.81	5.98	47.9314	95.3		
21	42	18O2-PFHxS	403.0 > 102.6	1.76e3	3.68e3	0.249	0.502	3.84	3.81	5.98	47.9314	95.3		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.87e3	0.249		4.15						
24	13	PFHpS	449 > 80.0		4.00e3	0.249		4.32						
25	11	L-PFOA	412.8 > 368.9	7.35e2	2.40e4	0.249		4.20	4.19	0.382	1.1445		7.30	NO
26	12	Br-PFOA	412.8 > 368.9		2.40e4	0.249		4.10						
27	69	Total PFOA	412.8 > 368.9	7.35e2	2.40e4	0.249		4.21		0.382	1.1445			
28	43	13C2-6:2 FTS	428.9>80.9	2.87e3	4.12e3	0.249	0.673	4.15	4.13	8.69	51.9352	103.3		
29	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
30	44	13C2-PFOA	414.9 > 369.7	2.40e4	3.11e4	0.249	0.819	4.21	4.19	9.65	47.3898	94.2		
31	44	13C2-PFOA	414.9 > 369.7	2.40e4	3.11e4	0.249	0.819	4.21	4.19	9.65	47.3898	94.2		
32	44	13C2-PFOA	414.9 > 369.7	2.40e4	3.11e4	0.249	0.819	4.21	4.19	9.65	47.3898	94.2		
33	-1													
34	14	PFNA	463.0 > 418.8		2.13e4	0.249		4.64						
35	15	PFOSA	497.7 > 77.9		2.03e3	0.249		4.71						
36	16	L-PFOS	498.9 > 79.9		4.00e3	0.249		4.72						

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9		4.00e3	0.249		4.62						
38	70	Total PFOS	498.9 > 79.9	0.00e0	4.00e3	0.249		4.74		0.000				
39	45	13C5-PFNA	468.2 > 422.9	2.13e4	2.42e4	0.249	0.991	4.64	4.63	11.0	44.7138	88.9		
40	46	13C8-PFOSA	506.1 > 77.7	2.03e3	3.66e4	0.249	0.082	4.71	4.70	0.692	34.0691	67.7		
41	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
42	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
43	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
44	-1													
45	18	PFDA	513 > 468.8		2.03e4	0.249		5.02						
46	19	8:2 FTS	527 > 506.9		2.59e3	0.249		4.99						
47	20	PFNS	549.1 > 80.1		4.00e3	0.249		5.08						
48	26	PFDS	598.8 > 79.9		4.00e3	0.249		5.39						
49	25	PFUdA	563.0 > 518.9	9.61e1	2.47e4	0.249		5.34	5.34	0.0487	0.1697		25.1	YES
50	48	13C2-PFDA	515.1 > 469.9	2.03e4	3.43e4	0.249	0.768	5.02	5.01	7.41	38.8294	77.2		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.59e3	4.12e3	0.249	0.720	4.99	4.98	7.86	43.9251	87.3		
52	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
53	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
54	51	13C2-PFUdA	565 > 519.8	2.47e4	3.66e4	0.249	0.941	5.34	5.34	8.42	36.0108	71.6		
55	-1													
56	21	L-MeFOSAA	570 > 419		2.16e3	0.249		5.17						
57	22	Br-MeFOSAA	570. > 419		2.16e3	0.249		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	2.16e3	0.249		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.15e4	0.249		5.87						
60	30	PFTeDA	713.0 > 669.0	3.52e1	1.25e4	0.249		6.09	6.09	0.0353	0.0721		6.94	NO
61	50	d3-N-MeFOSAA	573.3 > 419	2.16e3	3.66e4	0.249	0.110	5.17	5.17	0.736	26.8725	53.4		
62	50	d3-N-MeFOSAA	573.3 > 419	2.16e3	3.66e4	0.249	0.110	5.17	5.17	0.736	26.8725	53.4		
63	50	d3-N-MeFOSAA	573.3 > 419	2.16e3	3.66e4	0.249	0.110	5.17	5.17	0.736	26.8725	53.4		
64	53	13C2-PFDoA	614.7 > 569.7	2.15e4	3.43e4	0.249	1.175	5.62	5.62	7.85	26.8894	53.5		
65	55	13C2-PFTeDA	715.1 > 669.7	1.25e4	3.66e4	0.249	0.696	6.09	6.09	4.26	24.6081	48.9		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		2.88e3	0.249		5.33						
68	24	Br-ETFOSAA	584.1 > 419		2.88e3	0.249		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	2.88e3	0.249		5.49		0.000				
70	27	PFDoA	612.9 > 569.0	2.35e1	2.15e4	0.249		5.63	5.64	0.0136	0.2133		10.6	NO
71	73	TCDA	498.3>106.9			0.249		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	2.88e3	3.66e4	0.249	0.145	5.33	5.33	0.982	27.2970	54.3		

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Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	2.88e3	3.66e4	0.249	0.145	5.33	5.33	0.982	27.2970	54.3		
74	52	d5-N-EtFOSAA	589.3 > 419	2.88e3	3.66e4	0.249	0.145	5.33	5.33	0.982	27.2970	54.3		
75	53	13C2-PFDoA	614.7 > 569.7	2.15e4	3.43e4	0.249	1.175	5.62	5.62	7.85	26.8894	53.5		
76	47	13C8-PFOS	507.0 > 79.9	4.00e3	4.12e3	0.249	1.068	4.73	4.73	12.1	45.6452	90.8		
77	-1													
78	60	13C4-PFBA	217. > 172	1.11e4	1.11e4	0.249	1.000	1.26	1.25	12.5	50.2897	100.0		
79	61	13C5-PFHxA	318 > 272.9	1.98e4	1.98e4	0.249	1.000	3.07	3.04	12.5	50.2897	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.68e3	3.68e3	0.249	1.000	3.84	3.81	12.5	50.2897	100.0		
81	63	13C8-PFOA	420.9 > 376	3.11e4	3.11e4	0.249	1.000	4.21	4.19	12.5	50.2897	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.42e4	2.42e4	0.249	1.000	4.64	4.63	12.5	50.2897	100.0		
83	65	13C4-PFOS	503 > 79.9	4.12e3	4.12e3	0.249	1.000	4.73	4.72	12.5	50.2897	100.0		
84	66	13C6-PFDA	519.1 > 473.7	3.43e4	3.43e4	0.249	1.000	5.01	5.01	12.5	50.2897	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.66e4	3.66e4	0.249	1.000	5.34	5.34	12.5	50.2897	100.0		

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Review: AMR 2/24/2019

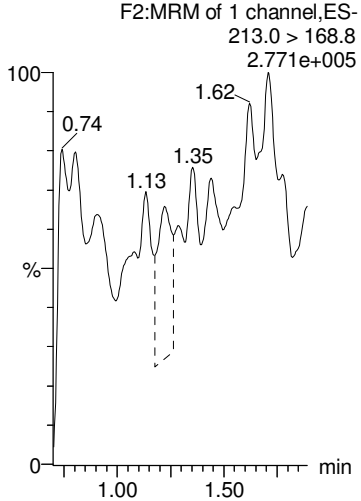
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

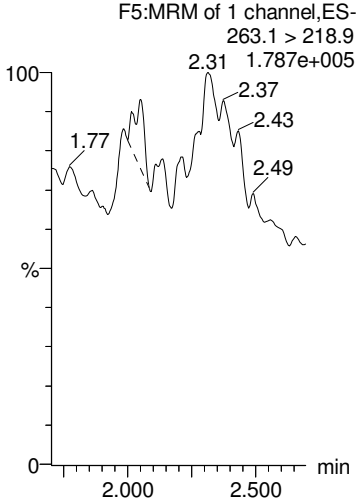
Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

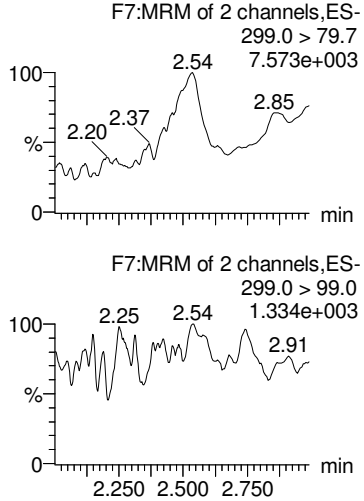
PFBA



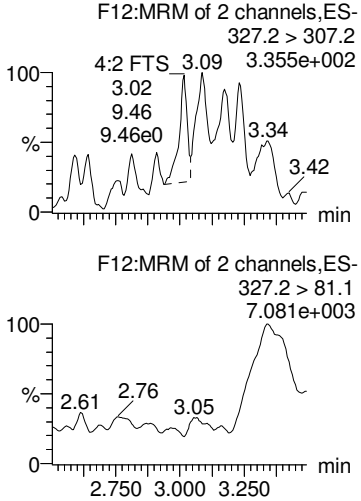
PFPeA



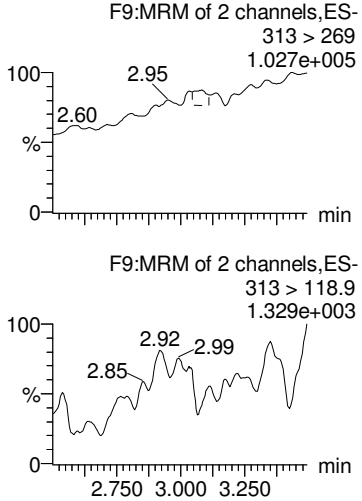
PFBS



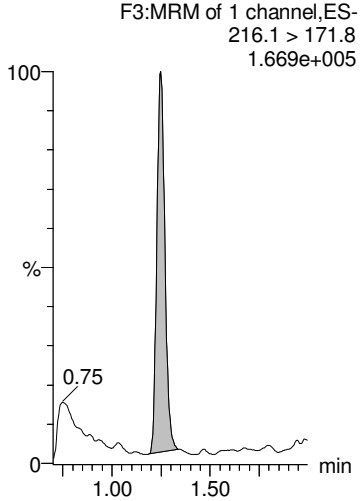
4:2 FTS



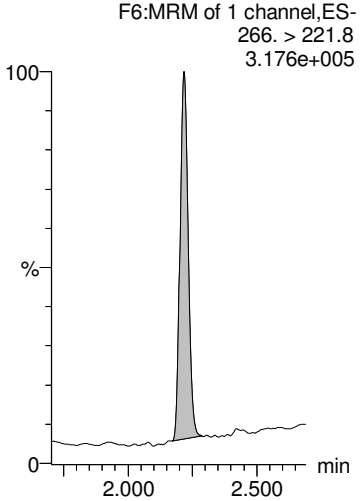
PFHxA



13C3-PFBA



13C3-PFPeA



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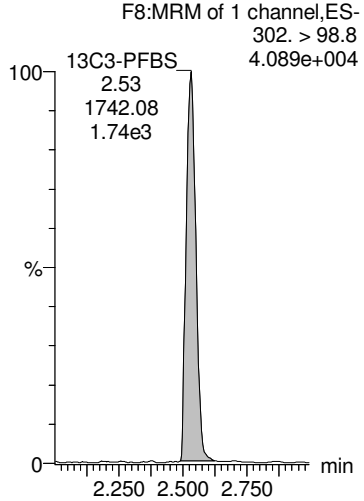
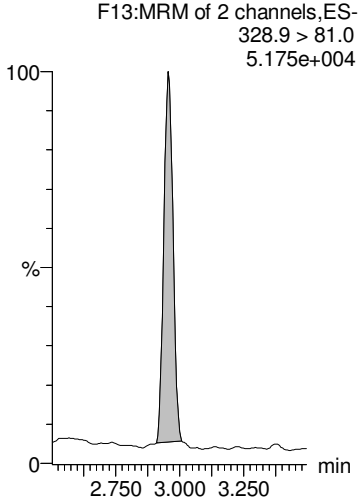
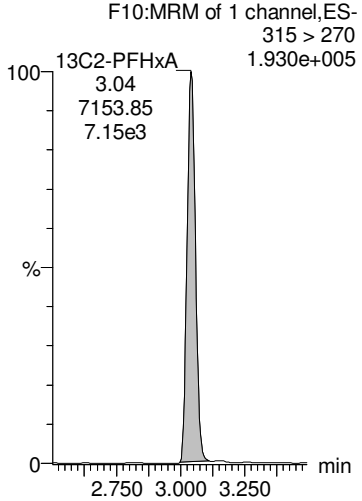


13C2-4:2 FTS



13C2-PFHxA



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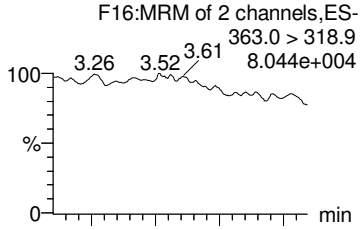
Review: AMR 2/24/2019

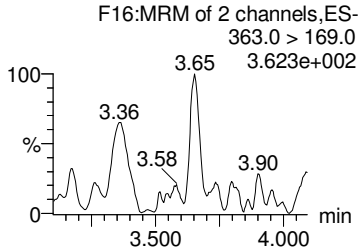
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

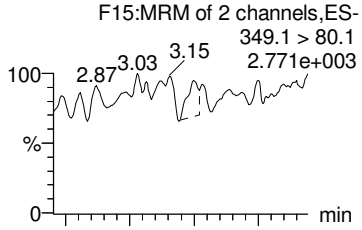
Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

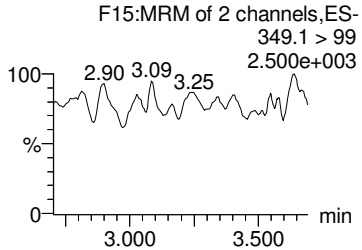
PFHpA



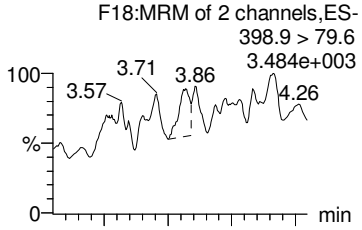


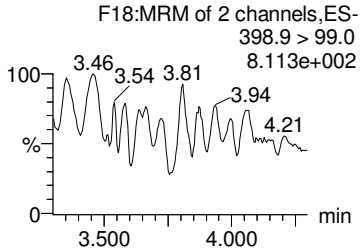
PFPeS



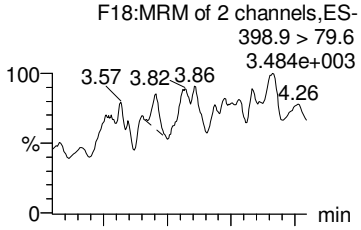


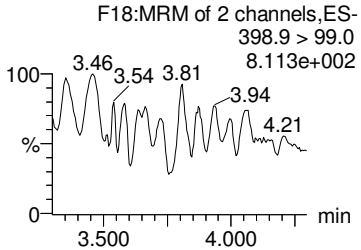
L-PFHxS



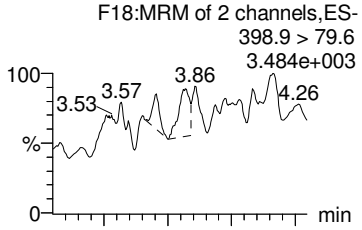


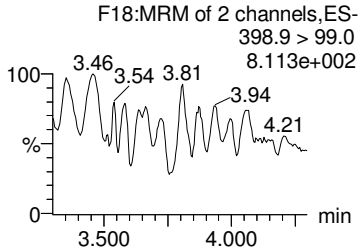
Br-PFHxS



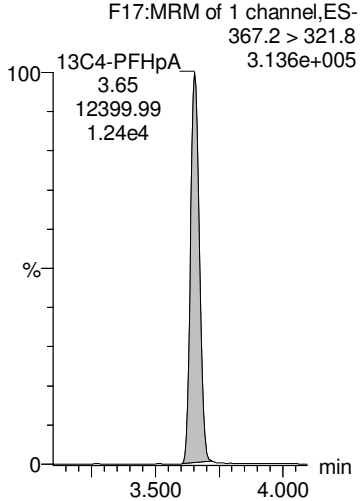


Total PFHxS

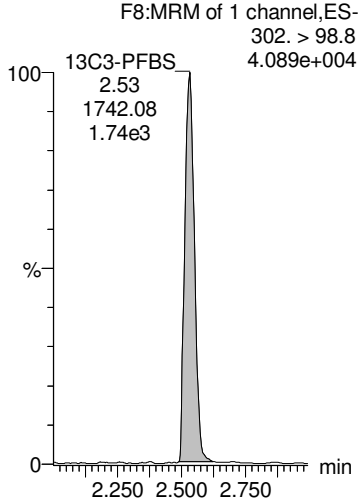




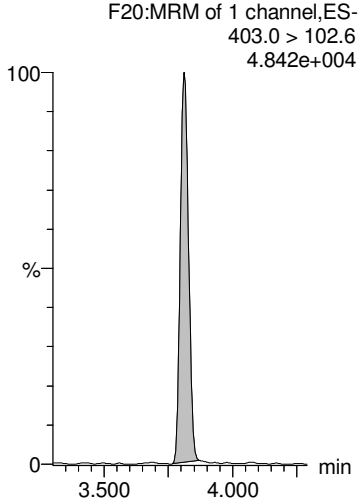
13C4-PFHpA



13C3-PFBS



18O2-PFHxS



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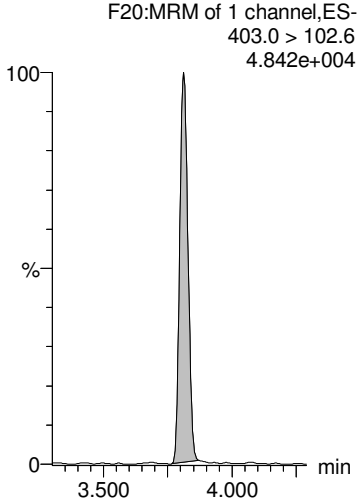

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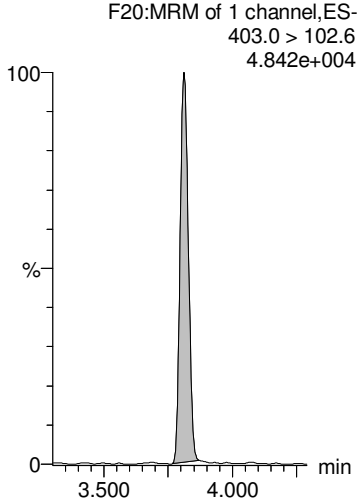


KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

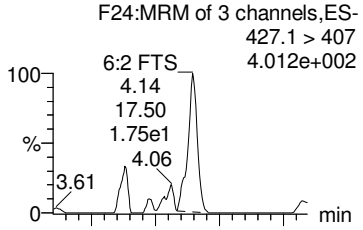
Review: AMR 2/24/2019

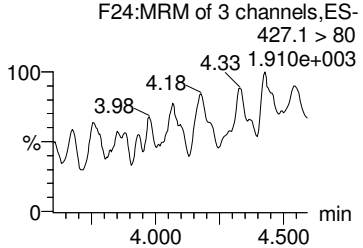
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

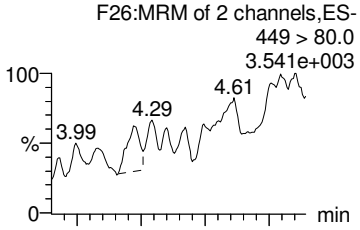
Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

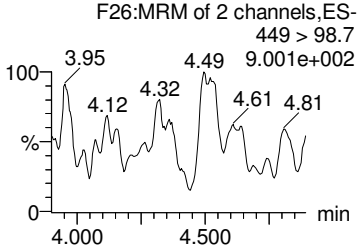
6:2 FTS



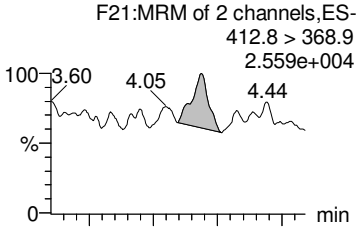


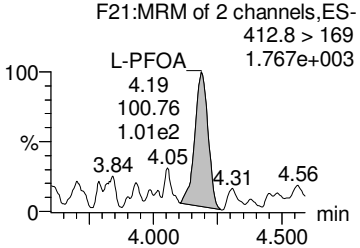
PFHpS



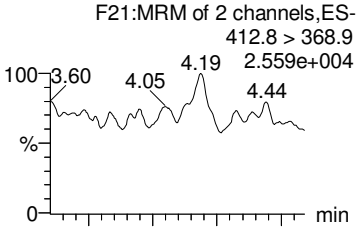


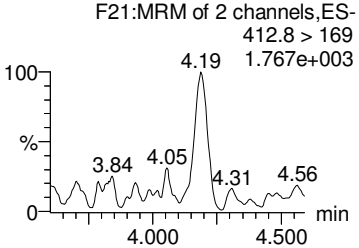
L-PFOA





Br-PFOA





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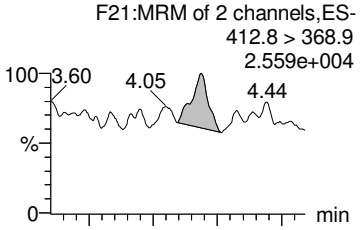
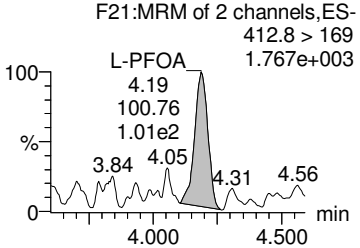
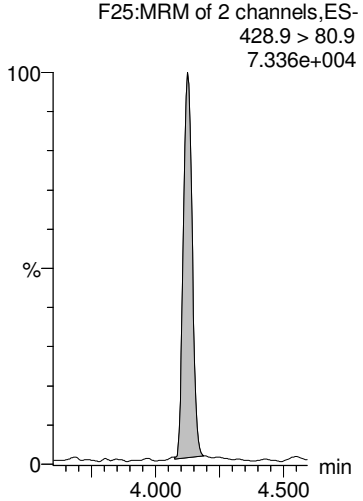
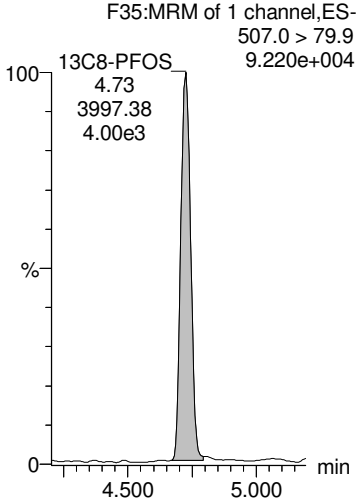




13C2-6:2 FTS



13C8-PFOS



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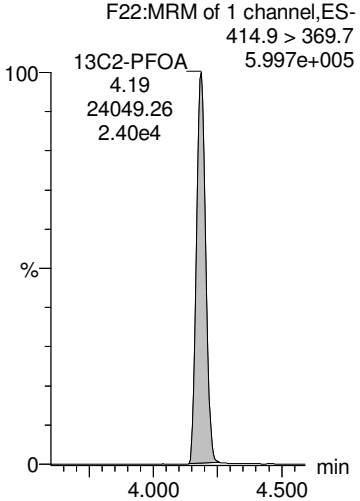

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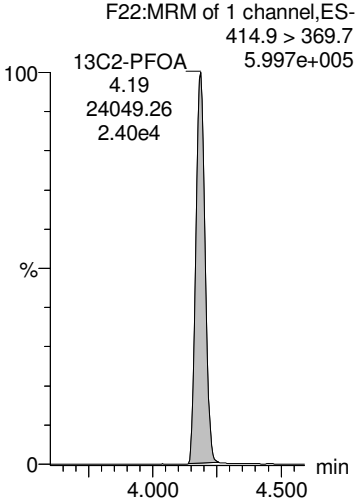

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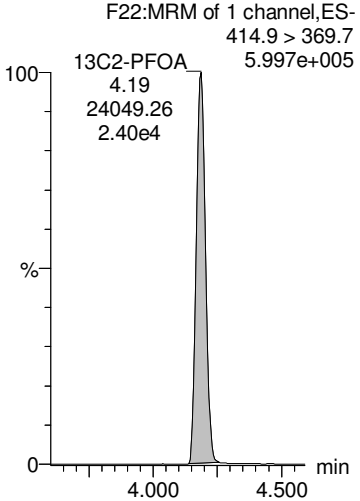

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

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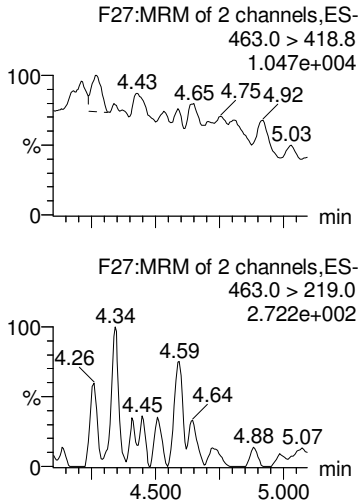
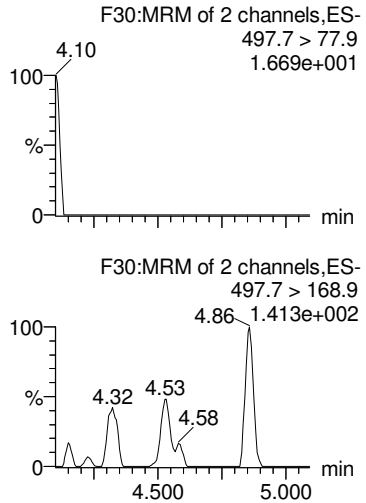
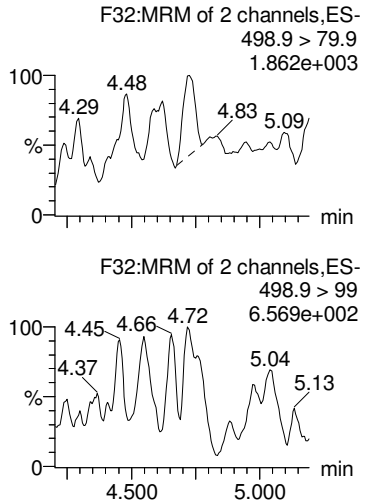


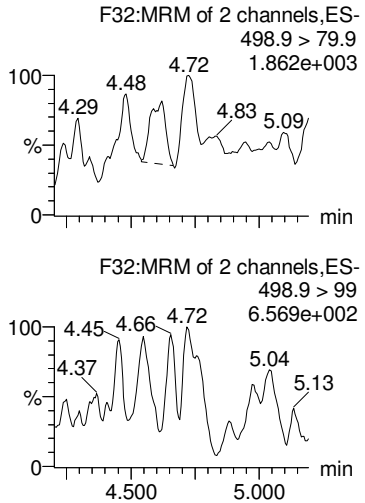
PFOSA



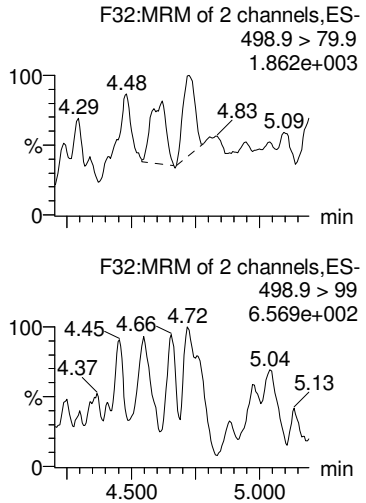
L-PFOS



Br-PFOS



Total PFOS



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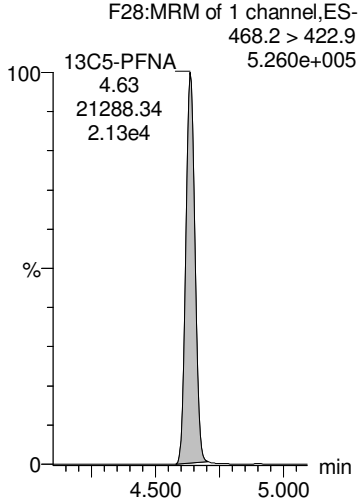
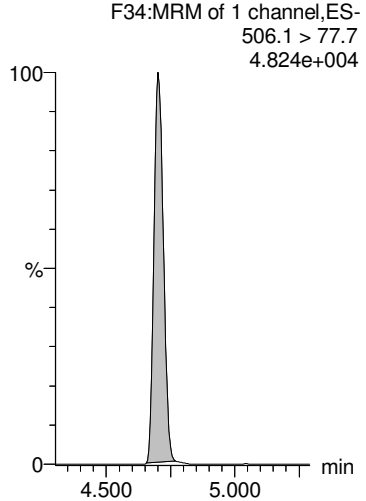
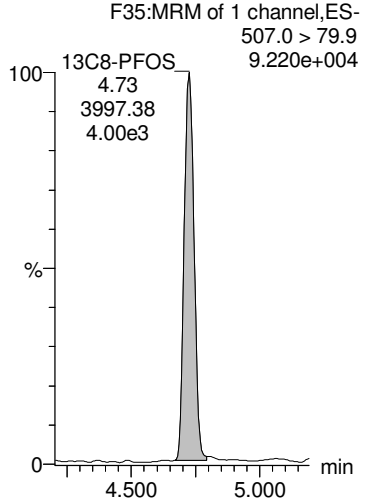


13C8-PFOSA



13C8-PFOS



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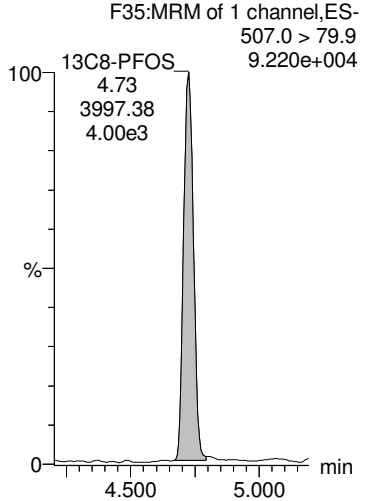

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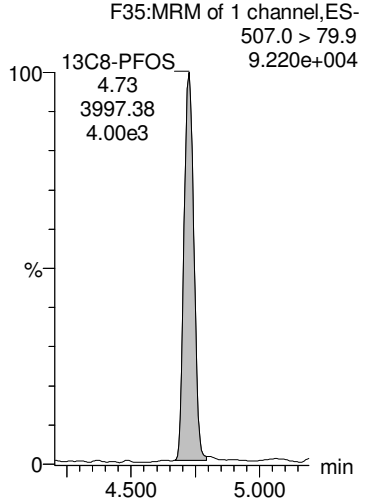

KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

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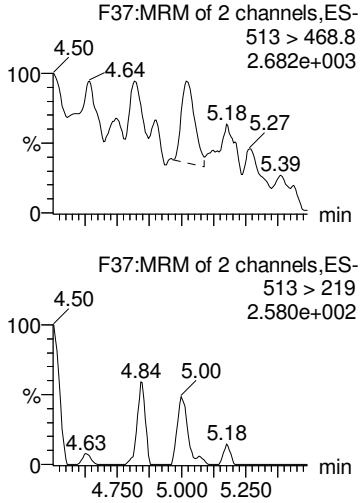
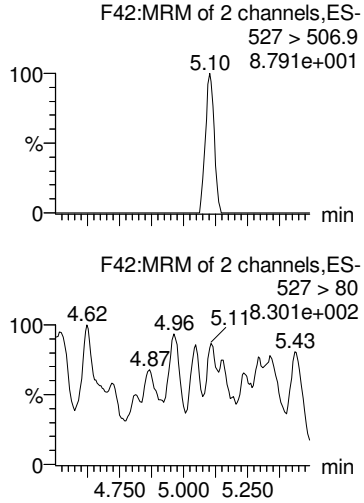
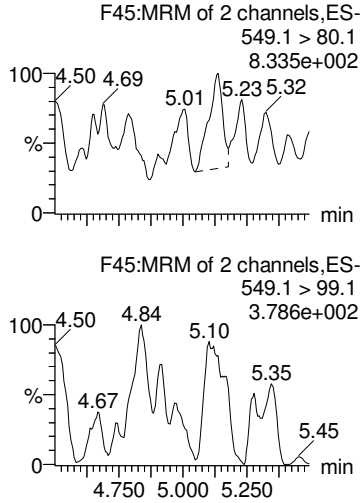


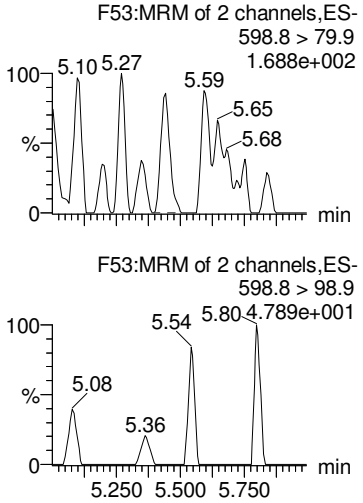
8:2 FTS



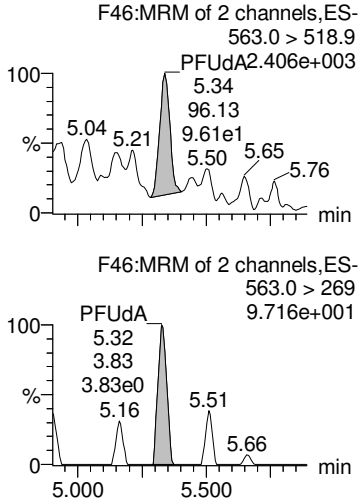
PFNS



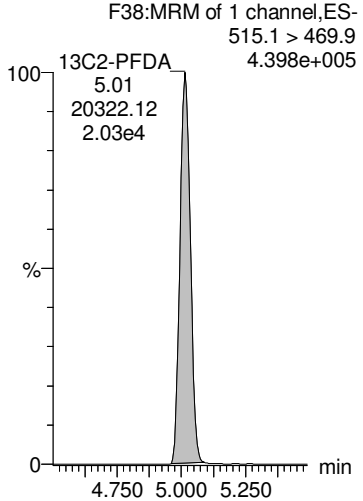
PFDS



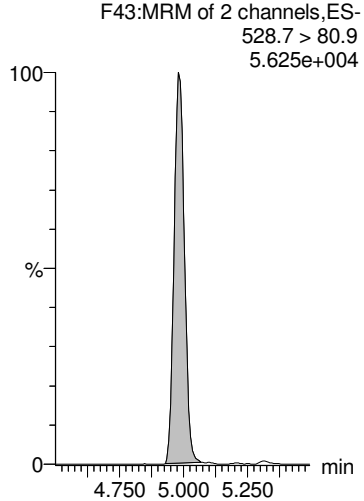
PFUdA



13C2-PFDA



13C2-8:2 FTS



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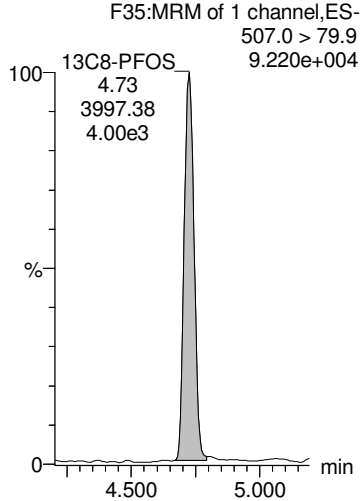

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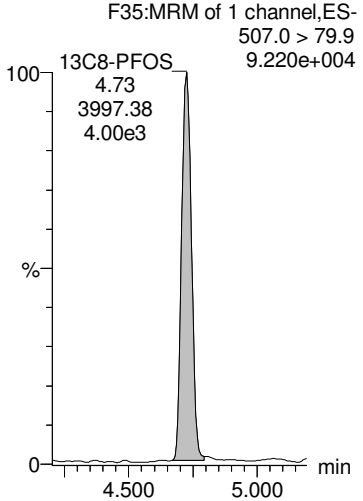
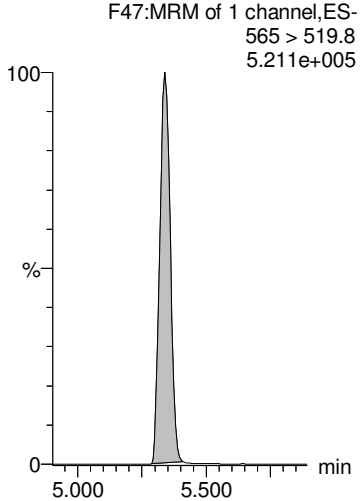


13C2-PFUdA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

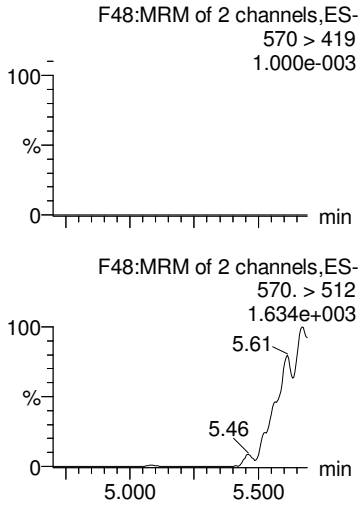
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

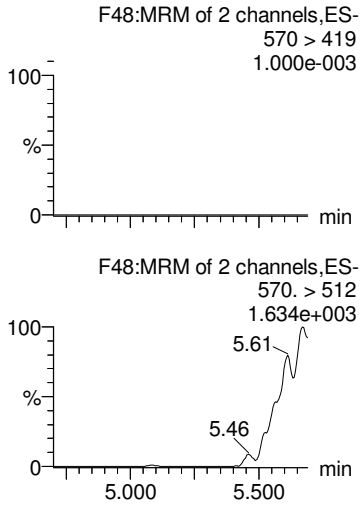
Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

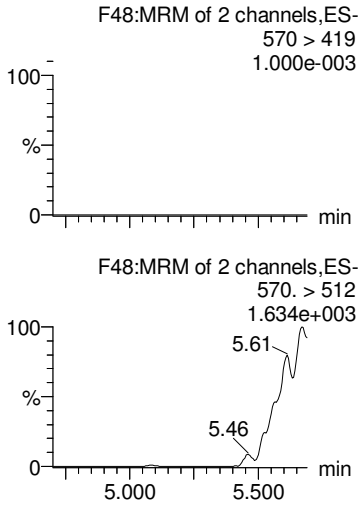
L-MeFOSAA



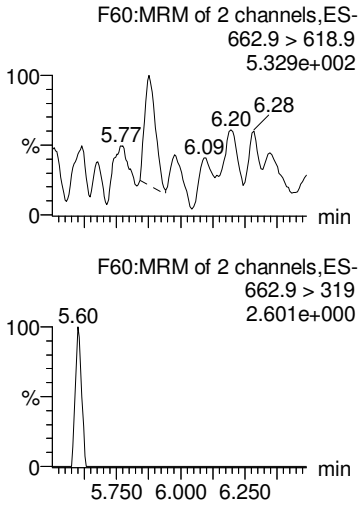
Br-MeFOSAA



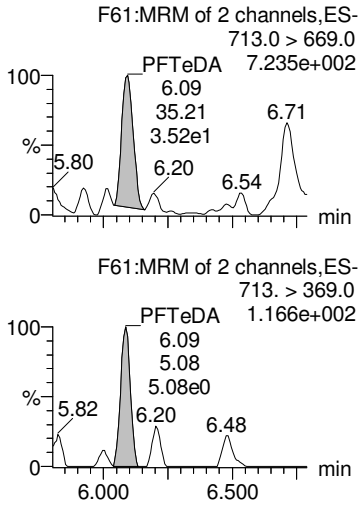
Total N-MeFOSAA



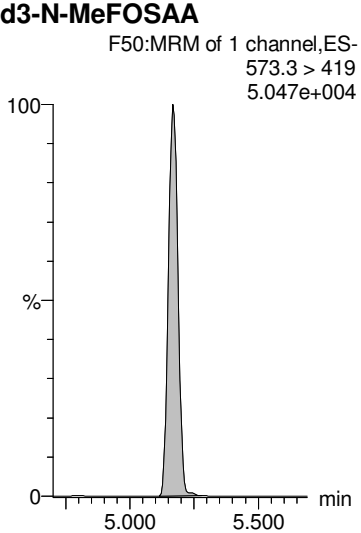
PFTrDA



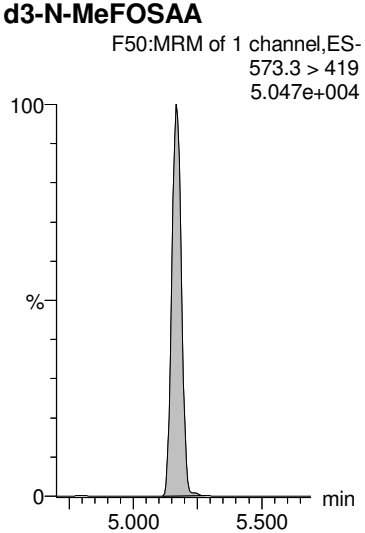
PFTeDA



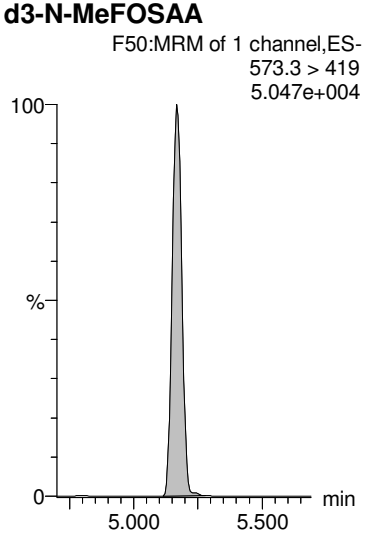
d3-N-MeFOSAA



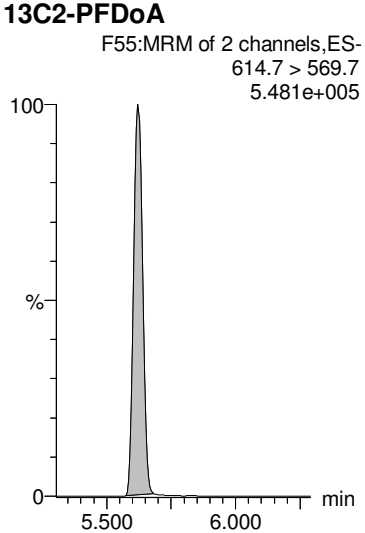
d3-N-MeFOSAA



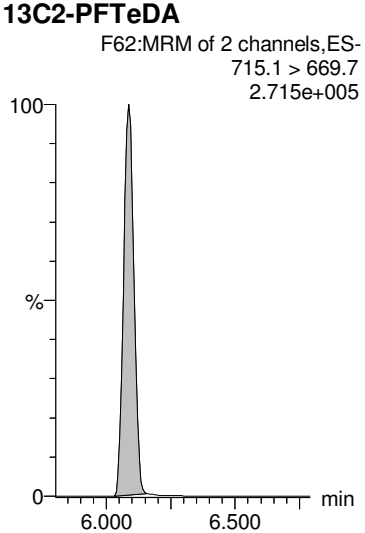
d3-N-MeFOSAA



13C2-PFDoA



13C2-PFTeDA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

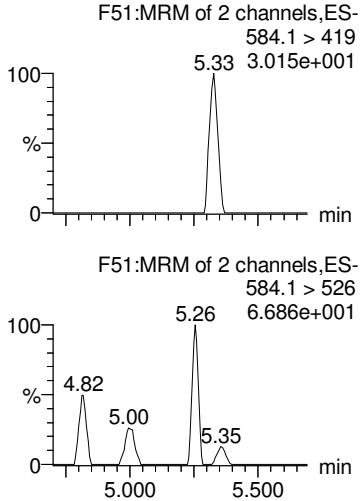
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

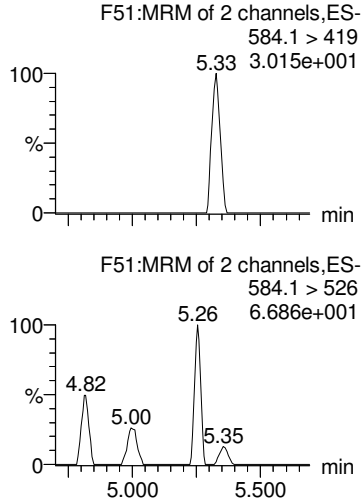
Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

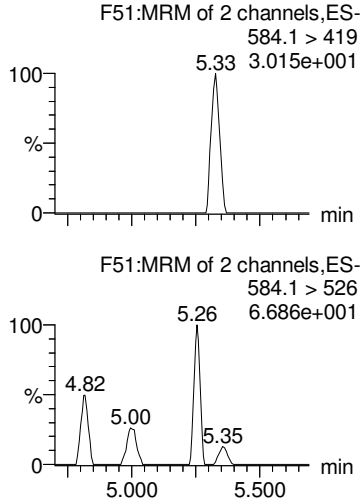
L-EtFOSAA



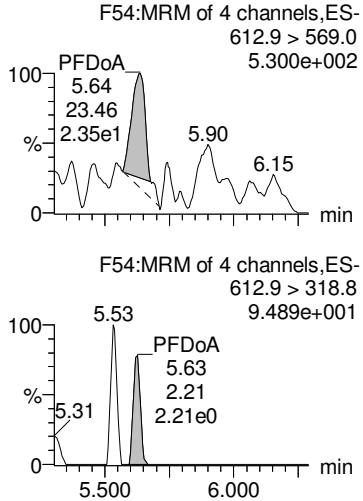
Br-ETFOSAA



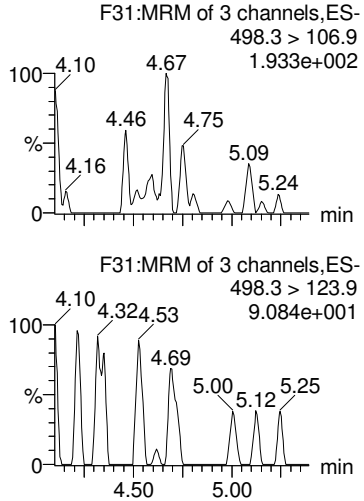
Total N-EtFOSAA



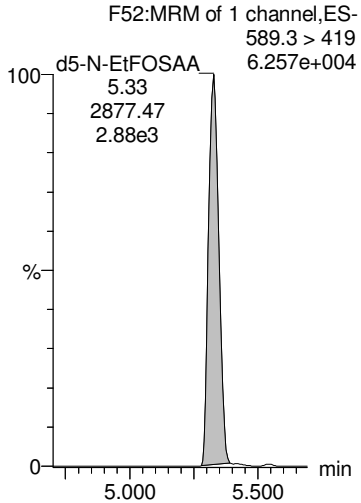
PFDoA



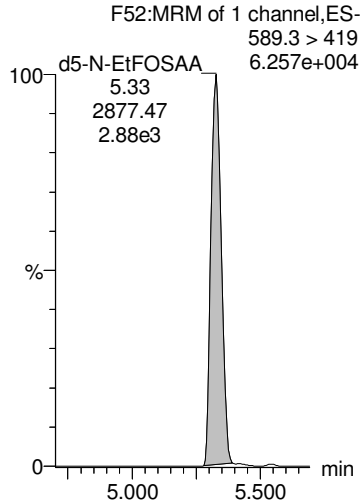
TCDA



d5-N-EtFOSAA



d5-N-EtFOSAA



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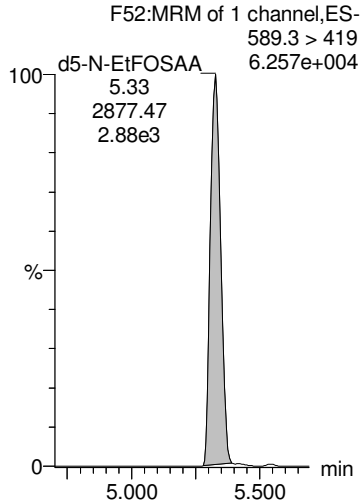
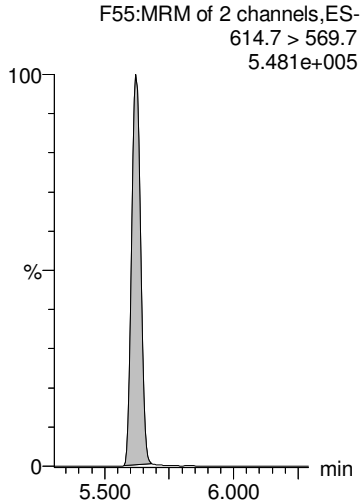
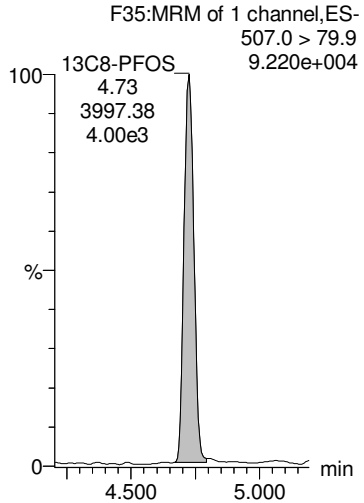


13C2-PFDoA



13C8-PFOS



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

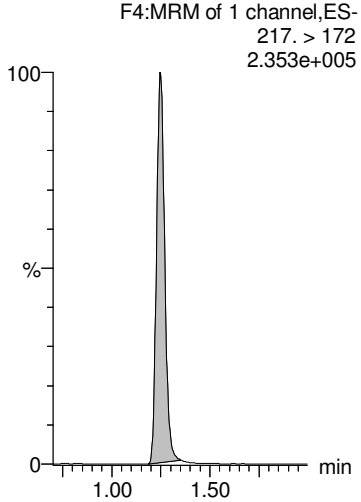
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-18.qld

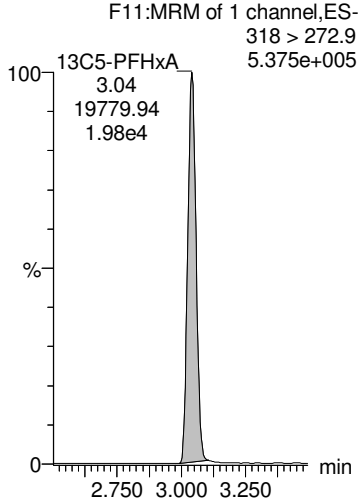
Last Altered: Thursday, February 21, 2019 15:20:35 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:21:03 Pacific Standard Time

Name: 190219M2_18, Date: 19-Feb-2019, Time: 19:40:25, ID: 1900272-02 SFMW-04s 0.24856, Description: SFMW-04s

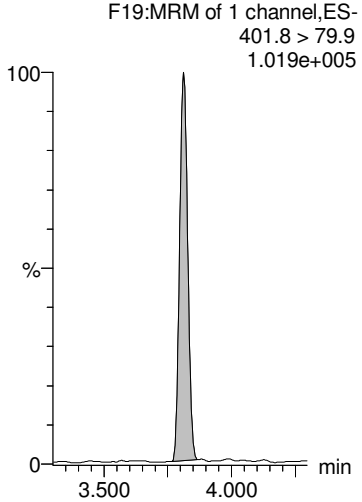
13C4-PFBA



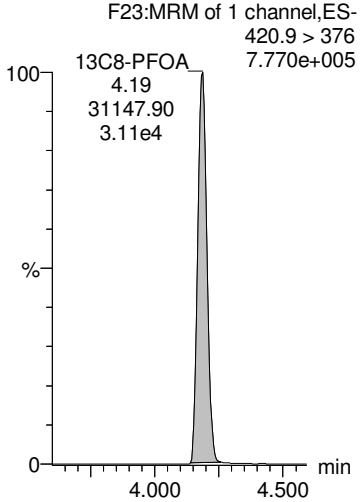
13C5-PFHxA



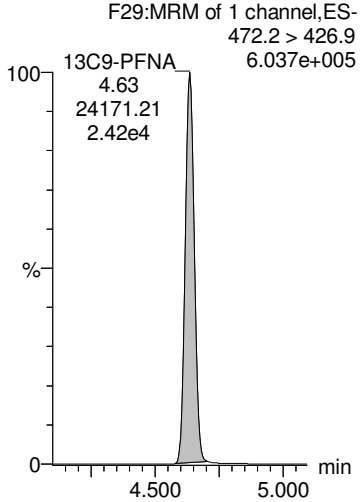
13C3-PFHxS



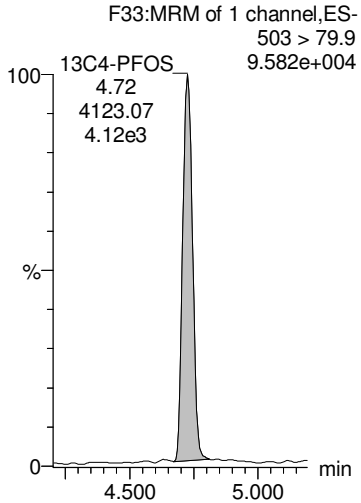
13C8-PFOA



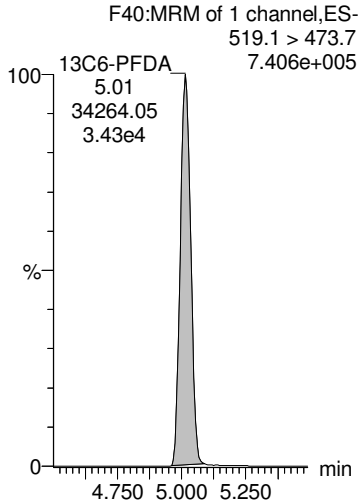
13C9-PFNA



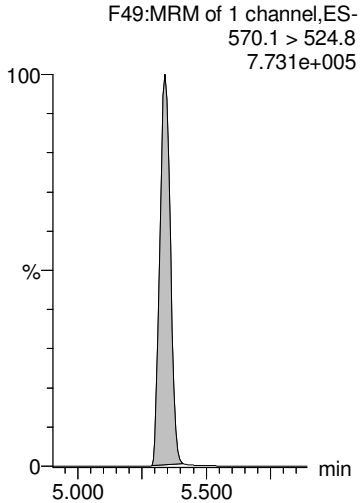
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8	1.67e2	9.73e3	0.252		1.26	1.26	0.215	1.0356			
2	2	PFPeA	263.1 > 218.9	1.30e2	1.37e4	0.252		2.26	2.26	0.119	0.5998			
3	3	PFBS	299.0 > 79.7	4.66e1	1.86e3	0.252		2.56	2.57	0.314	0.6027		2.39	NO
4	4	4:2 FTS	327.2>307.2		2.21e3	0.252		2.98						
5	5	PFHxA	313 > 269		9.10e3	0.252		3.07						
6	36	13C3-PFBA	216.1 > 171.8	9.73e3	1.36e4	0.252	0.735	1.27	1.26	8.92	48.1383	97.2		
7	37	13C3-PFPeA	266. > 221.8	1.37e4	2.43e4	0.252	0.571	2.26	2.26	7.05	48.9307	98.7		
8	38	13C3-PFBS	302. > 98.8	1.86e3	3.39e3	0.252	0.539	2.56	2.56	6.84	50.3014	101.5		
9	39	13C2-4:2 FTS	328.9>81.0	2.21e3	3.39e3	0.252	0.625	2.98	2.98	8.15	51.6933	104.3		
10	40	13C2-PFHxA	315 > 270	9.10e3	2.43e4	0.252	0.962	3.07	3.07	4.68	19.2818	97.3		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.40e4	0.252		3.69						
13	6	PFPeS	349.1>80.1		1.86e3	0.252		3.27						
14	8	L-PFHxS	398.9 > 79.6	1.24e2	1.68e3	0.252		3.84	3.84	0.923	2.1524		1.64	NO
15	9	Br-PFHxS	398.9 > 79.6		1.68e3	0.252		3.74						
16	68	Total PFHxS	398.9 > 79.6	1.24e2	1.68e3	0.252		3.87		0.923	2.1524			
17	41	13C4-PFHpA	367.2 > 321.8	1.40e4	2.43e4	0.252	0.562	3.68	3.69	7.18	50.6352	102.2		
18	38	13C3-PFBS	302. > 98.8	1.86e3	3.39e3	0.252	0.539	2.56	2.56	6.84	50.3014	101.5		
19	42	18O2-PFHxS	403.0 > 102.6	1.68e3	3.39e3	0.252	0.502	3.84	3.84	6.19	48.8833	98.7		
20	42	18O2-PFHxS	403.0 > 102.6	1.68e3	3.39e3	0.252	0.502	3.84	3.84	6.19	48.8833	98.7		
21	42	18O2-PFHxS	403.0 > 102.6	1.68e3	3.39e3	0.252	0.502	3.84	3.84	6.19	48.8833	98.7		
22	-1													
23	10	6:2 FTS	427.1 > 407	5.76e1	2.51e3	0.252		4.15	4.15	0.287	0.7960		1.84	NO
24	13	PFHpS	449 > 80.0	3.22e1	4.00e3	0.252		4.32	4.34	0.100	0.4719		1.79	NO
25	11	L-PFOA	412.8 > 368.9	4.87e2	2.43e4	0.252		4.20	4.21	0.250	0.7312		5.93	NO
26	12	Br-PFOA	412.8 > 368.9	2.78e2	2.43e4	0.252		4.10	4.05	0.143	0.4087		7.20	YES
27	69	Total PFOA	412.8 > 368.9	7.65e2	2.43e4	0.252		4.21		0.394	1.1399			
28	43	13C2-6:2 FTS	428.9>80.9	2.51e3	3.81e3	0.252	0.673	4.15	4.15	8.24	48.5347	98.0		
29	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
30	44	13C2-PFOA	414.9 > 369.7	2.43e4	3.17e4	0.252	0.819	4.21	4.21	9.59	46.3992	93.6		
31	44	13C2-PFOA	414.9 > 369.7	2.43e4	3.17e4	0.252	0.819	4.21	4.21	9.59	46.3992	93.6		
32	44	13C2-PFOA	414.9 > 369.7	2.43e4	3.17e4	0.252	0.819	4.21	4.21	9.59	46.3992	93.6		
33	-1													
34	14	PFNA	463.0 > 418.8		2.17e4	0.252		4.64						
35	15	PFOSA	497.7 > 77.9		1.98e3	0.252		4.71						
36	16	L-PFOS	498.9 > 79.9	8.95e1	4.00e3	0.252		4.72	4.73	0.280	1.1377		1.47	NO

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Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9	7.84e2	4.00e3	0.252		4.62	4.59	2.45	8.9572		0.476	NO
38	70	Total PFOS	498.9 > 79.9	8.73e2	4.00e3	0.252		4.74		2.73	10.0949			
39	45	13C5-PFNA	468.2 > 422.9	2.17e4	2.52e4	0.252	0.991	4.64	4.64	10.7	42.9508	86.7		
40	46	13C8-PFOSA	506.1 > 77.7	1.98e3	3.60e4	0.252	0.082	4.71	4.71	0.688	33.3683	67.3		
41	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
42	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
43	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
44	-1													
45	18	PFDA	513 > 468.8		2.04e4	0.252		5.02						
46	19	8:2 FTS	527 > 506.9		2.39e3	0.252		4.99						
47	20	PFNS	549.1 > 80.1		4.00e3	0.252		5.08						
48	26	PFDS	598.8 > 79.9		4.00e3	0.252		5.39						
49	25	PFUdA	563.0 > 518.9		2.73e4	0.252		5.34						
50	48	13C2-PFDA	515.1 > 469.9	2.04e4	3.17e4	0.252	0.768	5.02	5.02	8.06	41.5994	84.0		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.39e3	3.81e3	0.252	0.720	4.99	4.99	7.83	43.1029	87.0		
52	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
53	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
54	51	13C2-PFUdA	565 > 519.8	2.73e4	3.60e4	0.252	0.941	5.34	5.35	9.48	39.9582	80.6		
55	-1													
56	21	L-MeFOSAA	570 > 419		3.16e3	0.252		5.17						
57	22	Br-MeFOSAA	570. > 419		3.16e3	0.252		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	3.16e3	0.252		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.84e4	0.252		5.87						
60	30	PFTeDA	713.0 > 669.0	3.81e1	1.83e4	0.252		6.09	6.09	0.0260	0.0452		50.3	YES
61	50	d3-N-MeFOSAA	573.3 > 419	3.16e3	3.60e4	0.252	0.110	5.17	5.17	1.10	39.5151	79.7		
62	50	d3-N-MeFOSAA	573.3 > 419	3.16e3	3.60e4	0.252	0.110	5.17	5.17	1.10	39.5151	79.7		
63	50	d3-N-MeFOSAA	573.3 > 419	3.16e3	3.60e4	0.252	0.110	5.17	5.17	1.10	39.5151	79.7		
64	53	13C2-PFDoA	614.7 > 569.7	2.84e4	3.17e4	0.252	1.175	5.62	5.63	11.2	37.7656	76.2		
65	55	13C2-PFTeDA	715.1 > 669.7	1.83e4	3.60e4	0.252	0.696	6.09	6.09	6.36	36.1968	73.1		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		4.35e3	0.252		5.33						
68	24	Br-ETFOSAA	584.1 > 419		4.35e3	0.252		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	4.35e3	0.252		5.49		0.000				
70	27	PFDoA	612.9 > 569.0	2.25e1	2.84e4	0.252		5.63	5.63	0.00991	0.1951		39.2	YES
71	73	TCDA	498.3>106.9			0.252		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	4.35e3	3.60e4	0.252	0.145	5.33	5.33	1.51	41.3779	83.5		

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Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	4.35e3	3.60e4	0.252	0.145	5.33	5.33	1.51	41.3779	83.5		
74	52	d5-N-EtFOSAA	589.3 > 419	4.35e3	3.60e4	0.252	0.145	5.33	5.33	1.51	41.3779	83.5		
75	53	13C2-PFDoA	614.7 > 569.7	2.84e4	3.17e4	0.252	1.175	5.62	5.63	11.2	37.7656	76.2		
76	47	13C8-PFOS	507.0 > 79.9	4.00e3	3.81e3	0.252	1.068	4.73	4.73	13.1	48.7496	98.4		
77	-1													
78	60	13C4-PFBA	217. > 172	1.36e4	1.36e4	0.252	1.000	1.26	1.26	12.5	49.5501	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.43e4	2.43e4	0.252	1.000	3.07	3.07	12.5	49.5501	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.39e3	3.39e3	0.252	1.000	3.84	3.84	12.5	49.5501	100.0		
81	63	13C8-PFOA	420.9 > 376	3.17e4	3.17e4	0.252	1.000	4.21	4.21	12.5	49.5501	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.52e4	2.52e4	0.252	1.000	4.64	4.64	12.5	49.5501	100.0		
83	65	13C4-PFOS	503 > 79.9	3.81e3	3.81e3	0.252	1.000	4.73	4.73	12.5	49.5501	100.0		
84	66	13C6-PFDA	519.1 > 473.7	3.17e4	3.17e4	0.252	1.000	5.01	5.02	12.5	49.5501	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.60e4	3.60e4	0.252	1.000	5.34	5.35	12.5	49.5501	100.0		

KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
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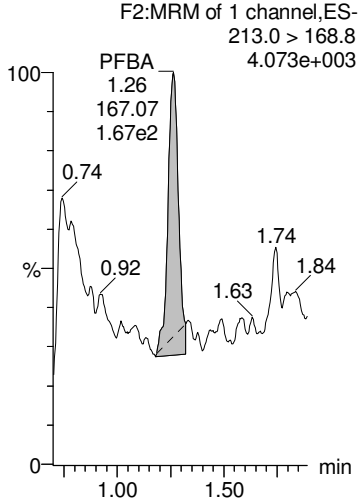
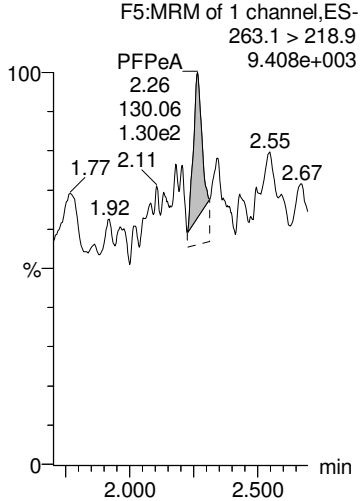
Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

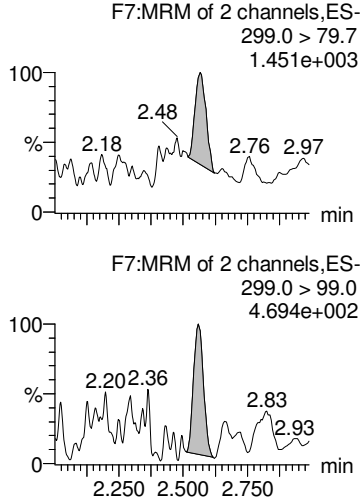
PFBA



PFPeA



PFBS



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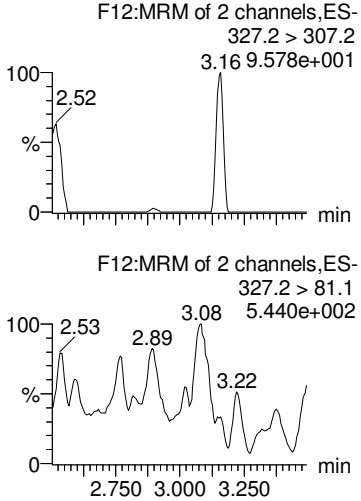
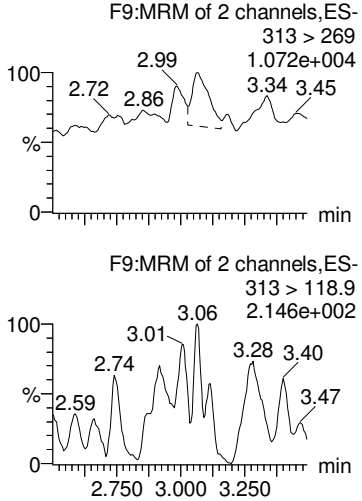
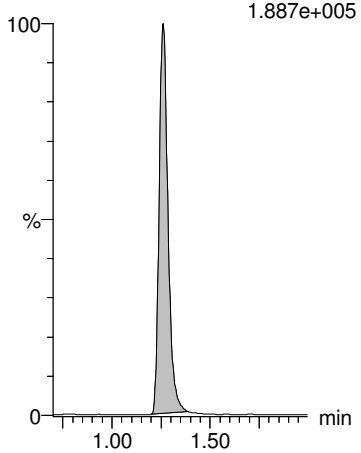


PFHxA



13C3-PFBA



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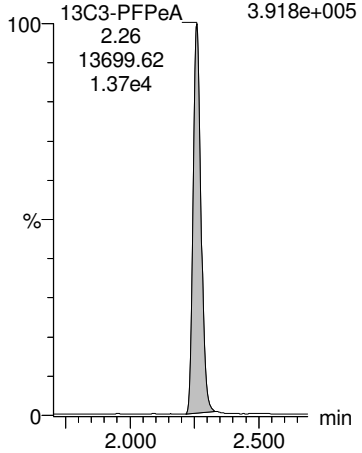

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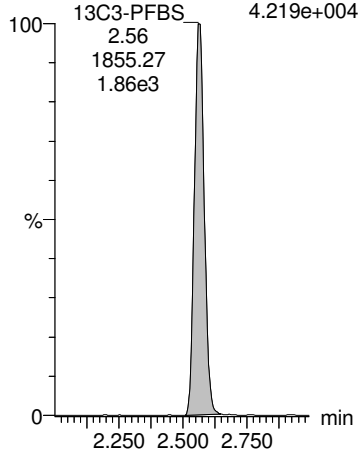
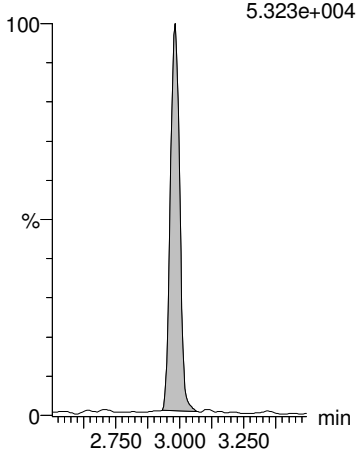


13C2-4:2 FTS



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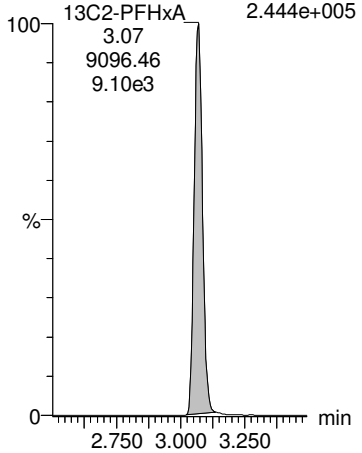

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

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Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

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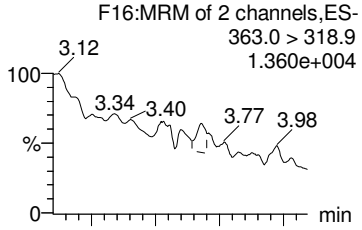

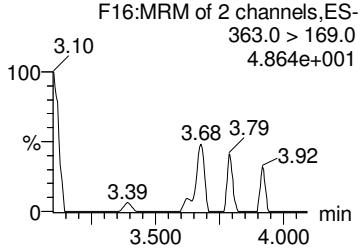

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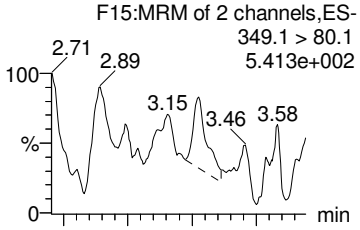
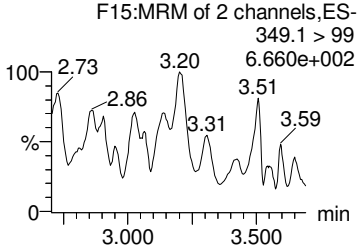
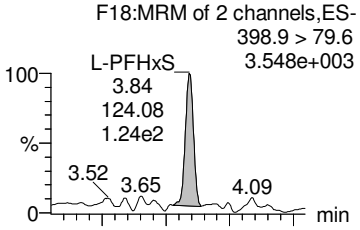
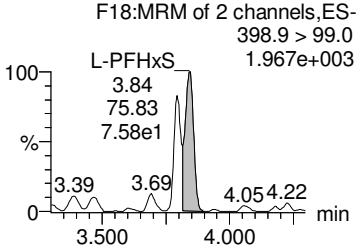


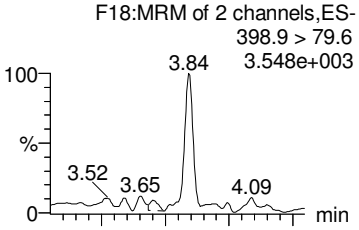


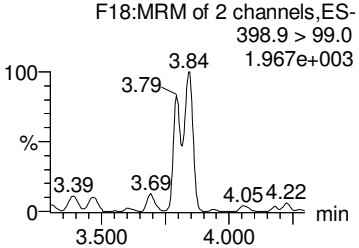
L-PFHxS





Br-PFHxS





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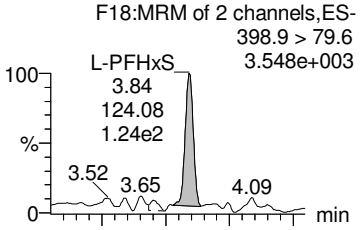

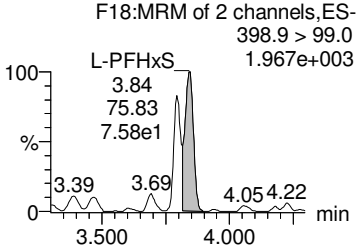

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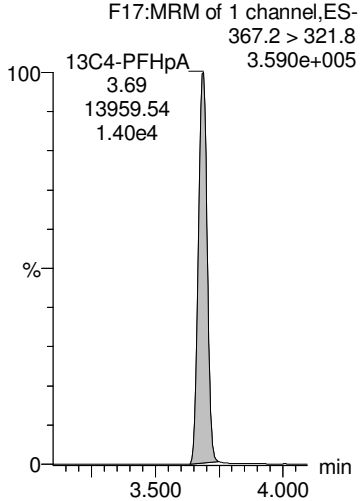
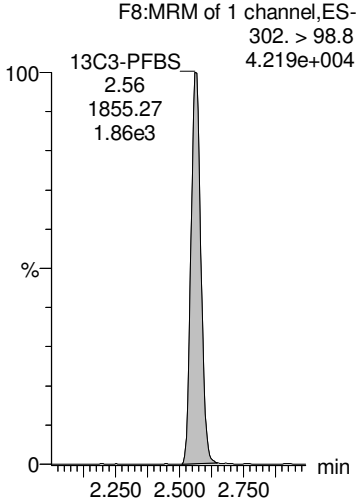


13C3-PFBS



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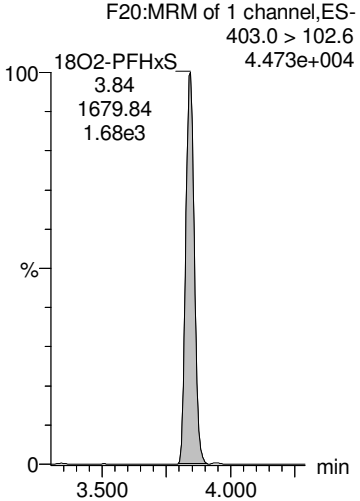

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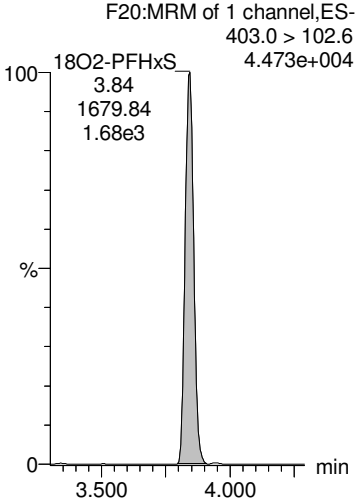

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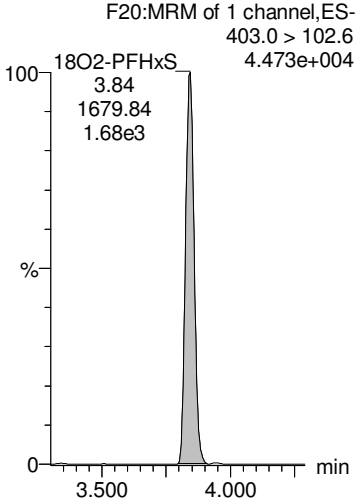

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

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Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

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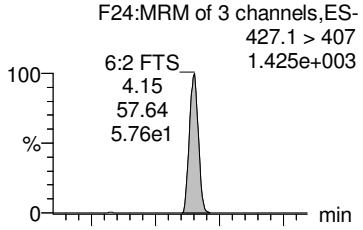
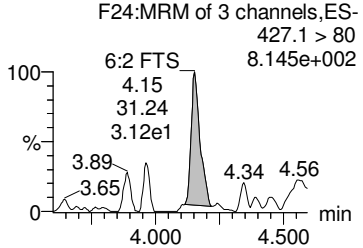
6:2 FTS





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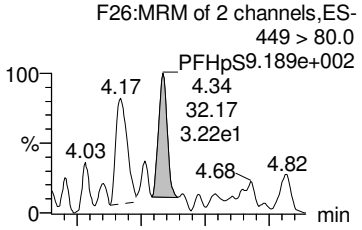
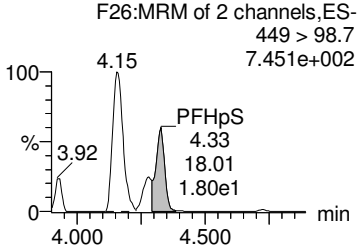
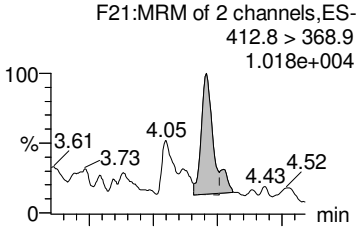
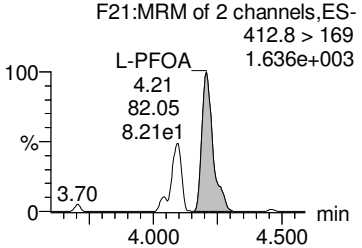


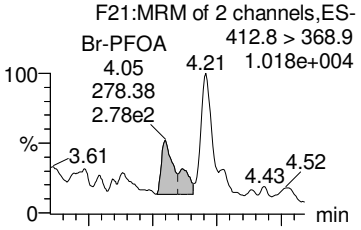


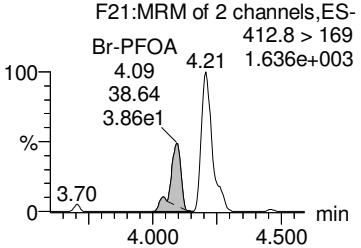
L-PFOA





Br-PFOA





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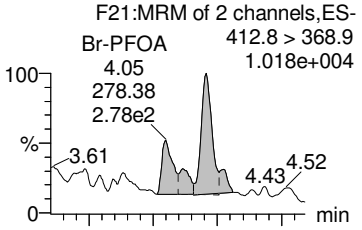
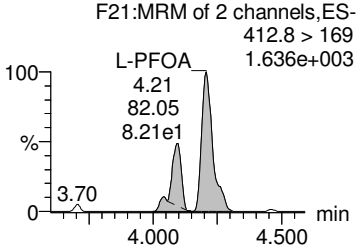
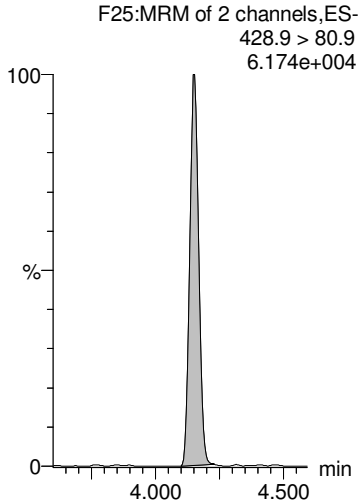
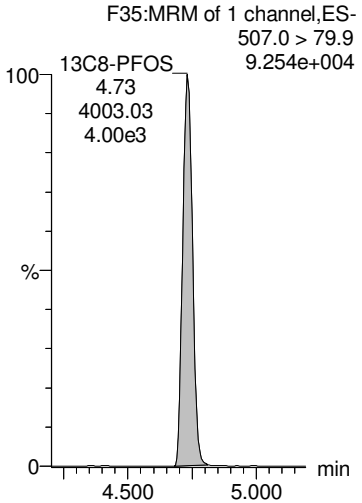




13C2-6:2 FTS



13C8-PFOS



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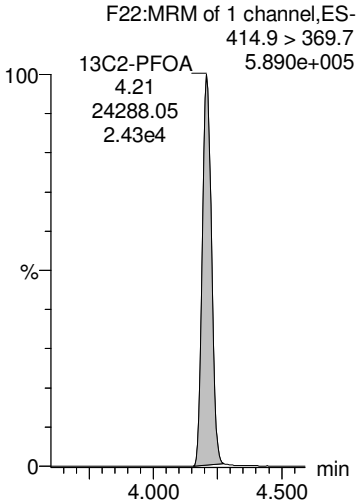

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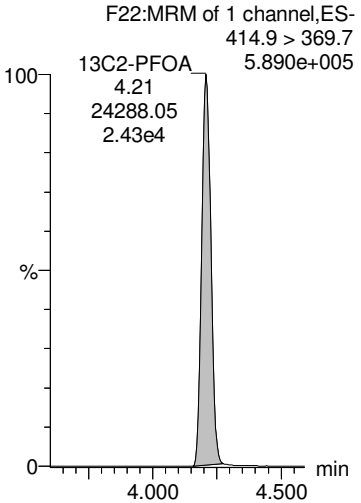

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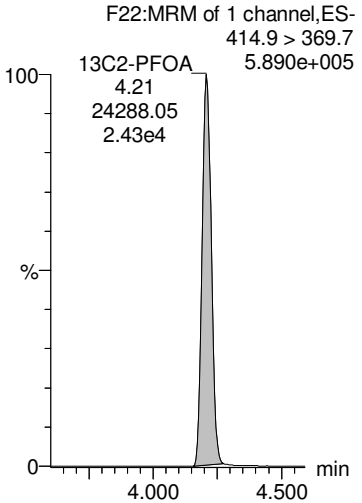

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

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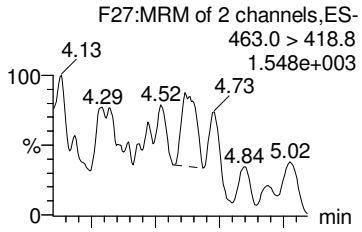

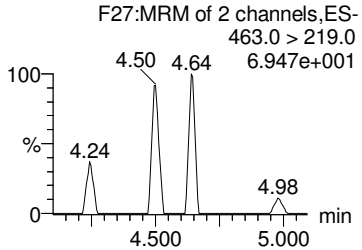

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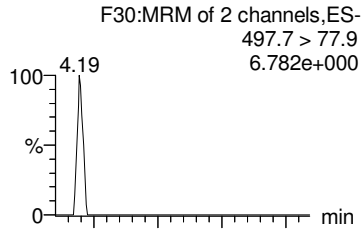
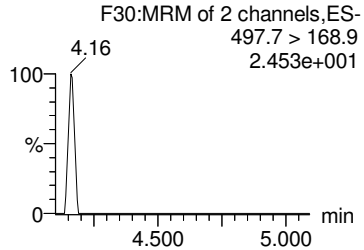
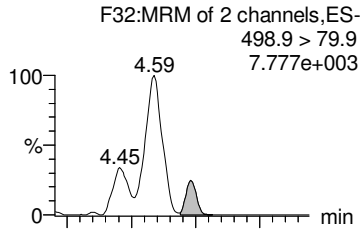
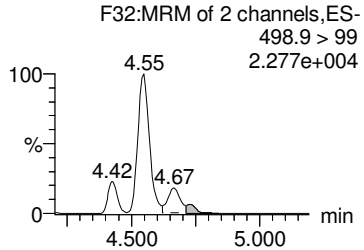


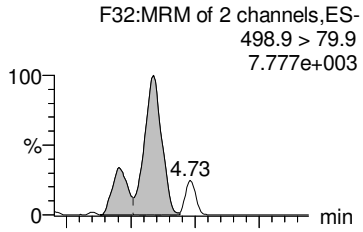


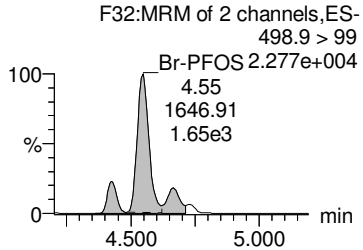
L-PFOS





Br-PFOS





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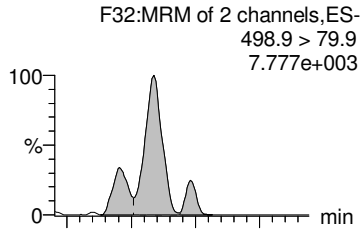

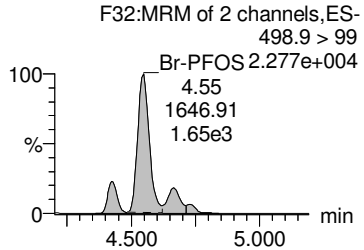

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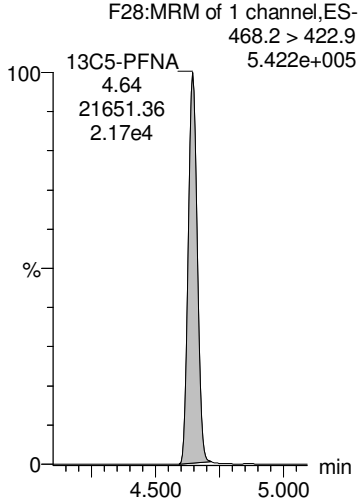

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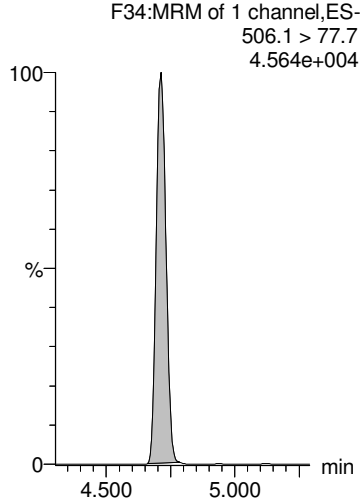
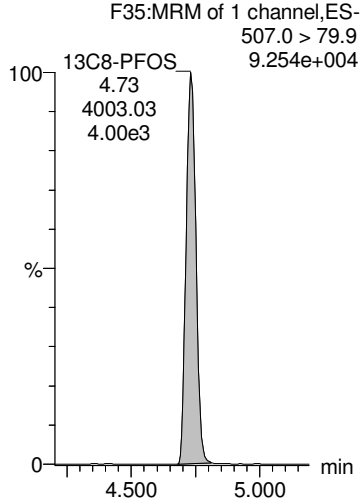
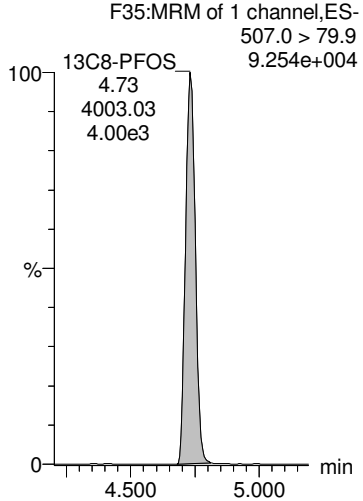


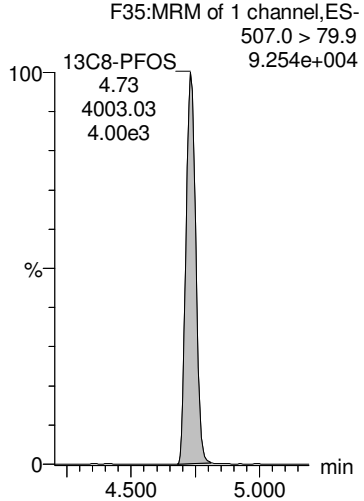
13C8-PFOS



13C8-PFOS



13C8-PFOS



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

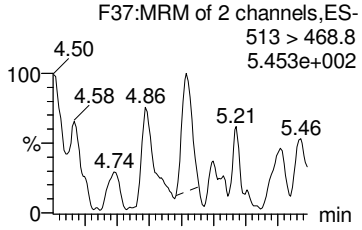
Review: AMR 2/24/2019

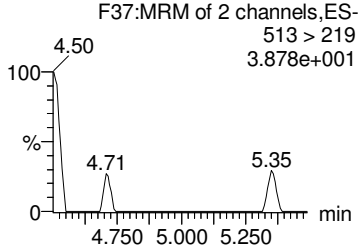
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

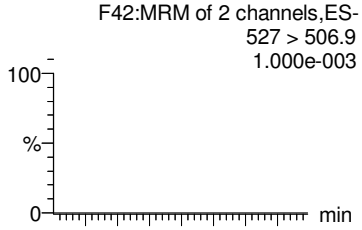
Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

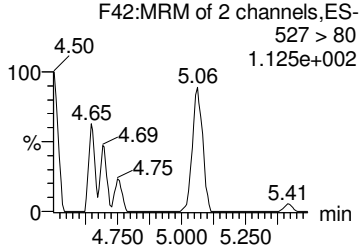
PFDA



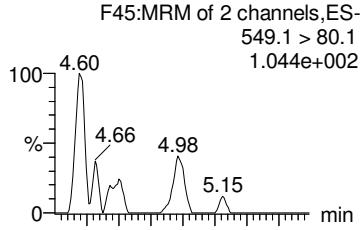


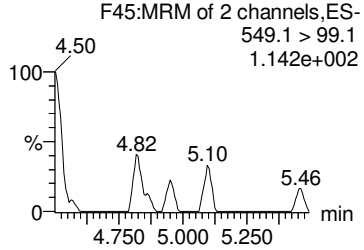
8:2 FTS



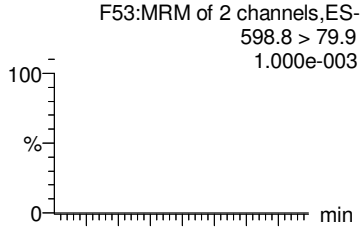


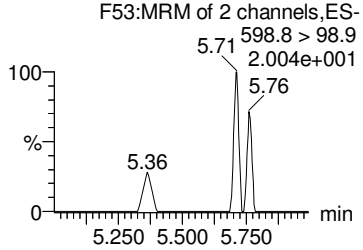
PFNS



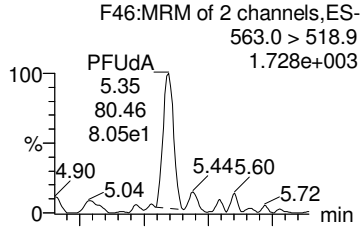


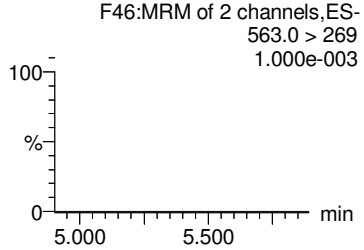
PFDS



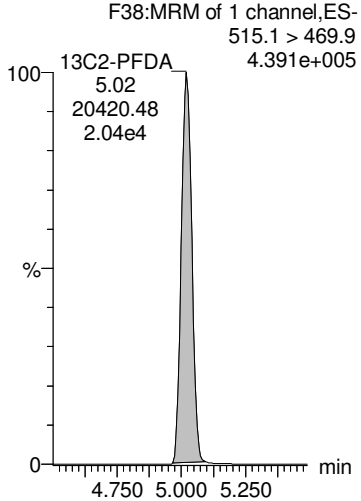


PFUdA

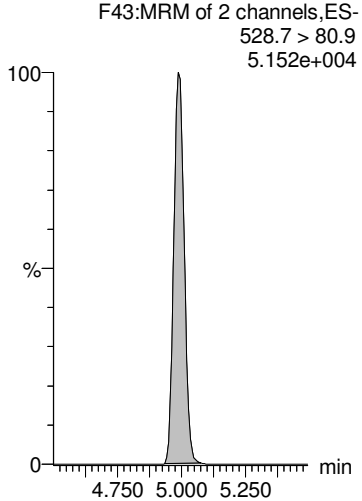




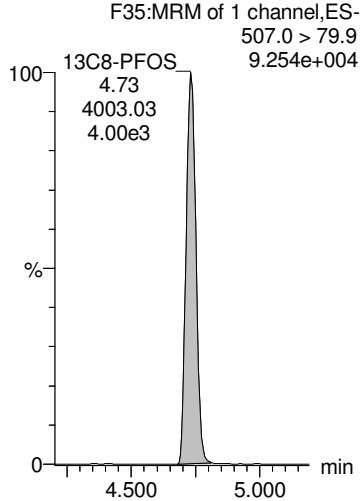
13C2-PFDA



13C2-8:2 FTS



13C8-PFOS



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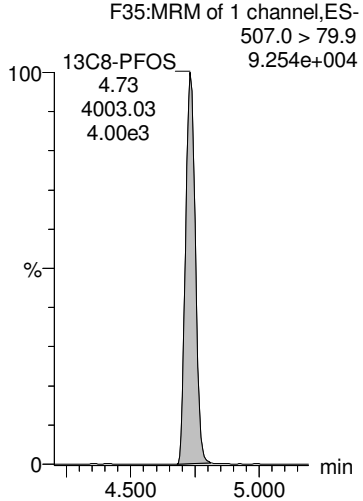
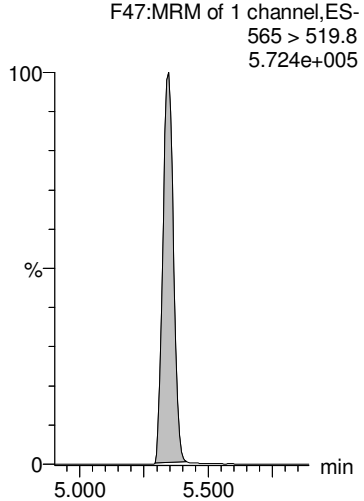


13C2-PFUdA



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Vista Analytical Laboratory L24 LBT

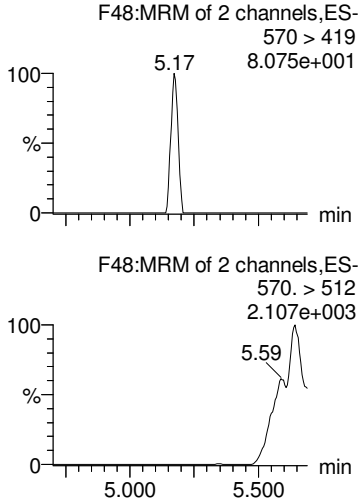
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

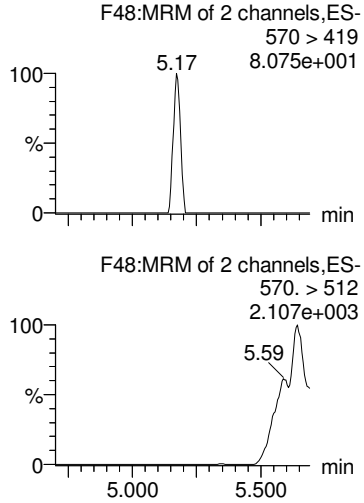
Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

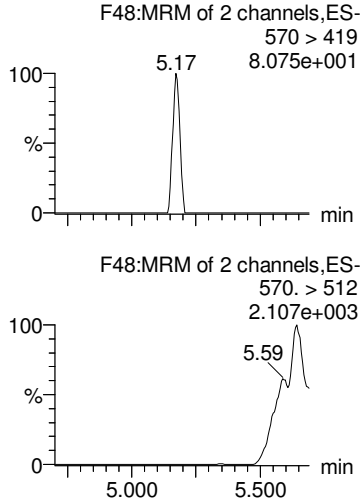
L-MeFOSAA



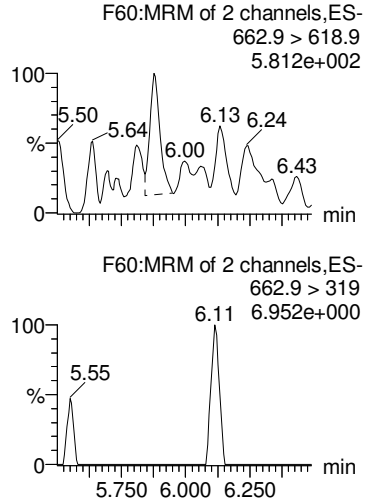
Br-MeFOSAA



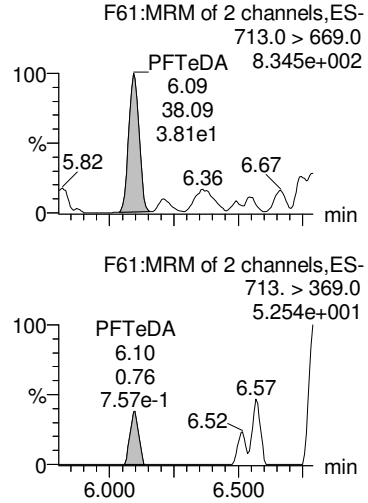
Total N-MeFOSAA



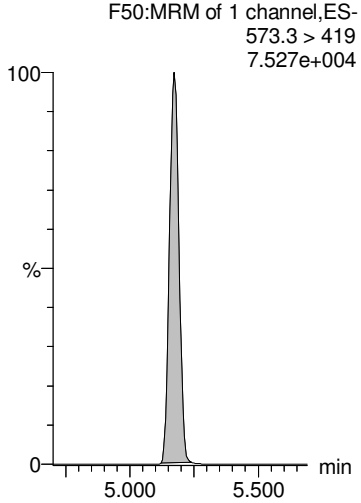
PFTrDA



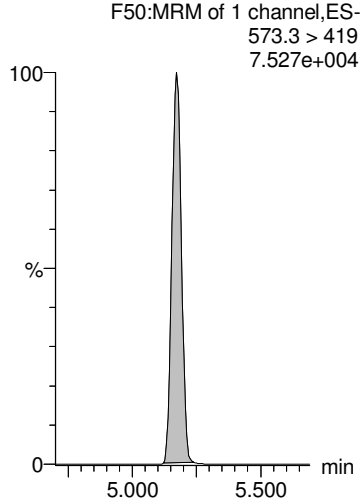
PFTeDA



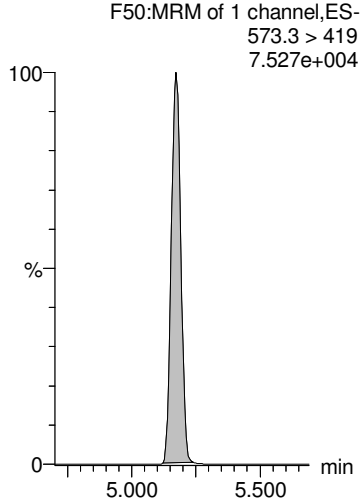
d3-N-MeFOSAA



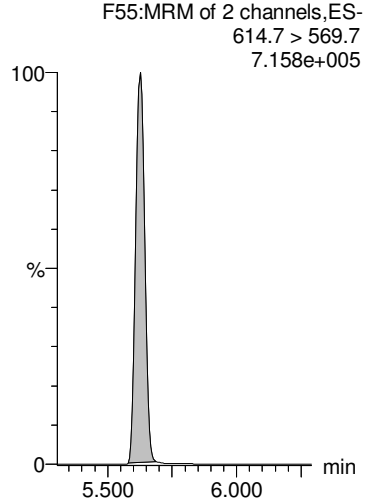
d3-N-MeFOSAA



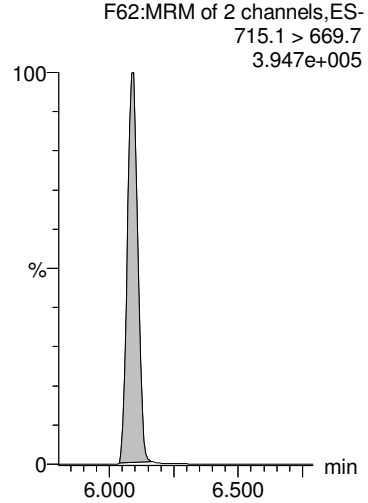
d3-N-MeFOSAA



13C2-PFDoA



13C2-PFTeDA



KBF 2/21/2019

Vista Analytical Laboratory L24 LBT

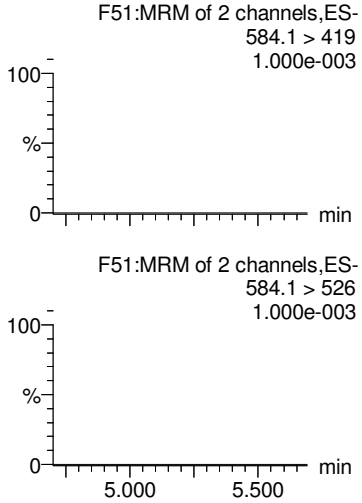
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

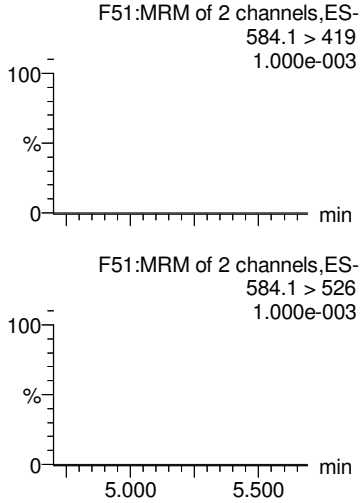
Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

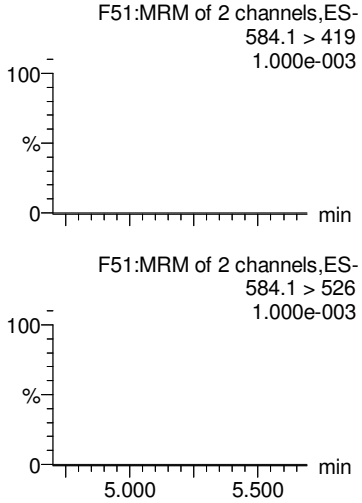
L-EtFOSAA



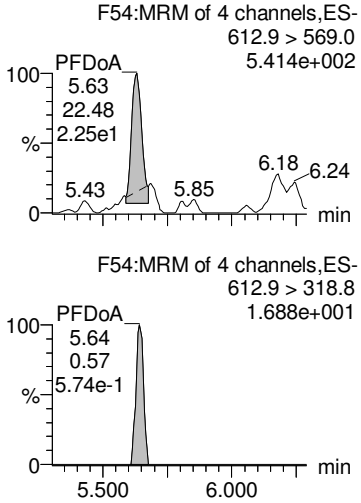
Br-ETFOSAA



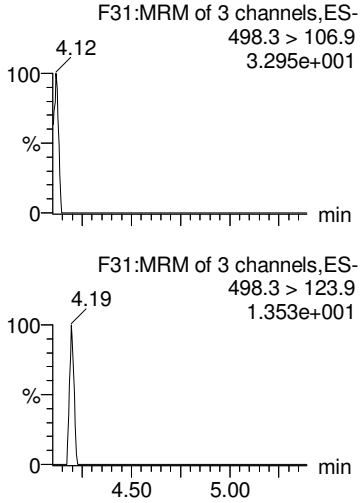
Total N-EtFOSAA



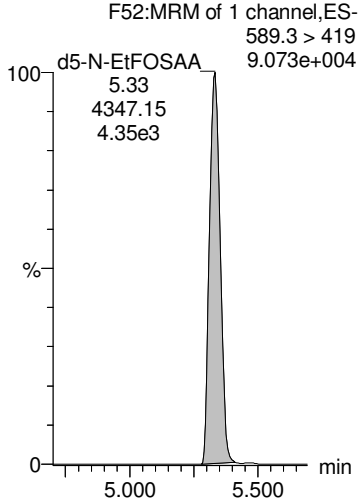
PFDoA



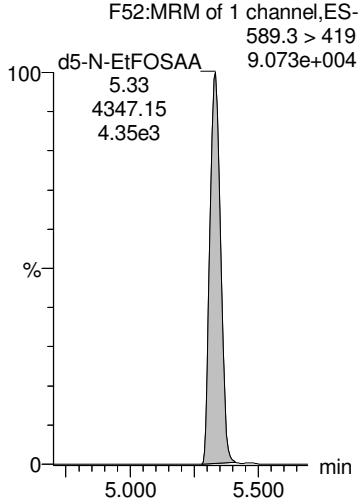
TCDA



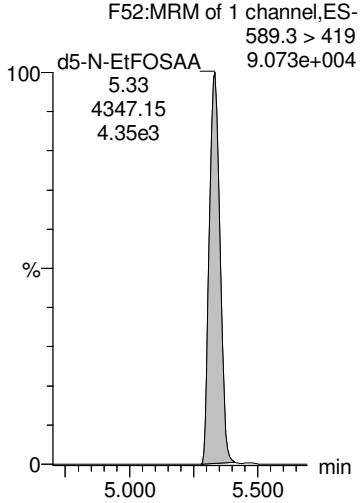
d5-N-EtFOSAA



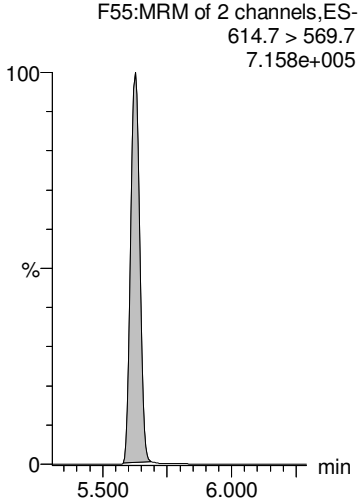
d5-N-EtFOSAA



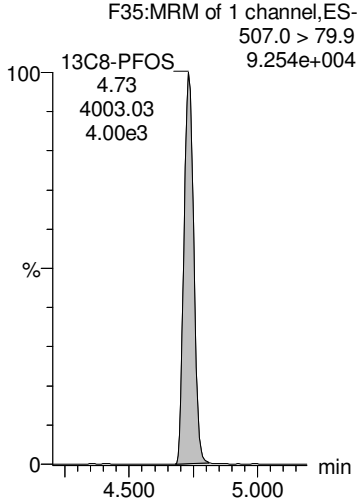
d5-N-EtFOSAA



13C2-PFDoA



13C8-PFOS



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Vista Analytical Laboratory L24 LBT

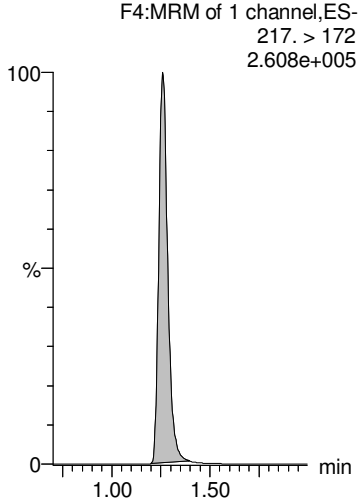
Review: AMR 2/24/2019

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-19.qld

Last Altered: Thursday, February 21, 2019 15:36:18 Pacific Standard Time
Printed: Thursday, February 21, 2019 15:36:33 Pacific Standard Time

Name: 190219M2_19, Date: 19-Feb-2019, Time: 19:50:57, ID: 1900272-03 MW-03s 0.25227, Description: MW-03s

13C4-PFBA



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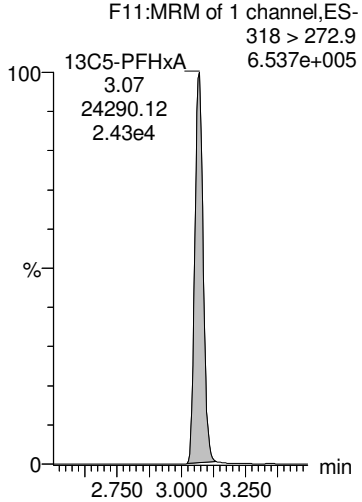
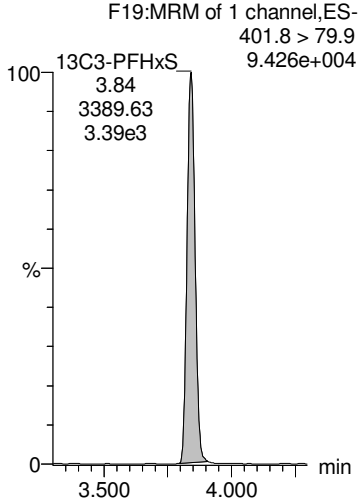
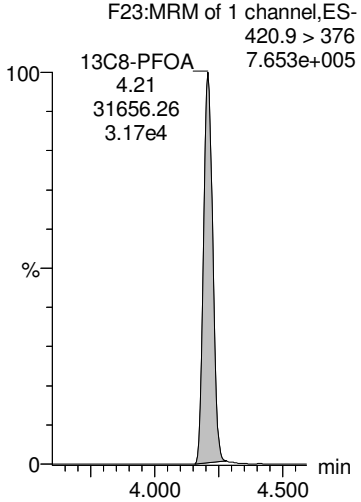


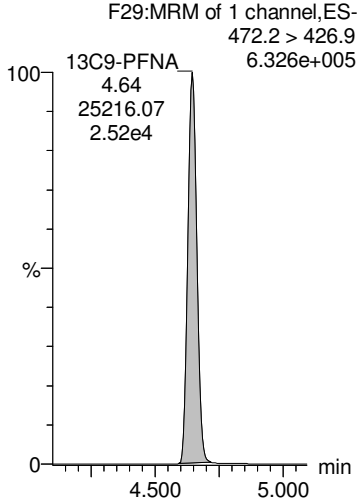
13C3-PFHxS



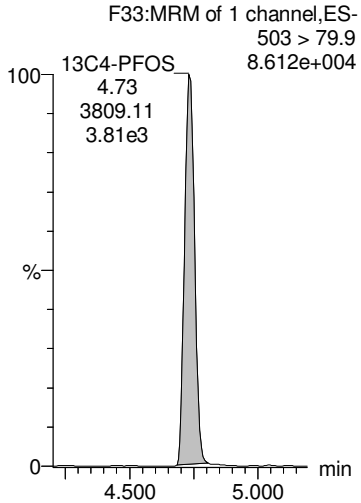
13C8-PFOA



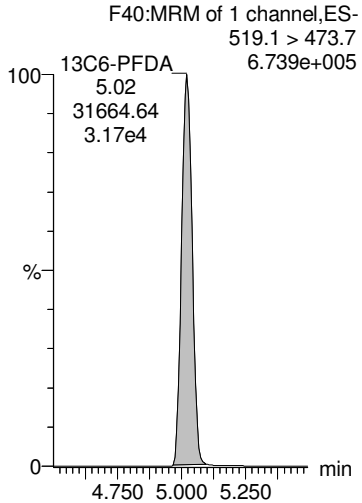
13C9-PFNA



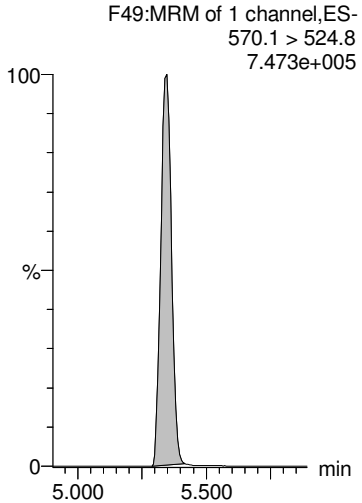
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

Last Altered: Thursday, February 21, 2019 17:13:36 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:14:43 Pacific Standard Time

Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8	2.33e2	8.84e3	0.247		1.26	1.26	0.329	1.4401			
2	2	PFPeA	263.1 > 218.9		1.27e4	0.247		2.26						
3	3	PFBS	299.0 > 79.7	5.18e1	1.73e3	0.247		2.57	2.57	0.375	0.7405		4.49	YES
4	4	4:2 FTS	327.2>307.2		1.97e3	0.247		2.98						
5	5	PFHxA	313 > 269	2.47e2	8.54e3	0.247		3.07	3.07	0.144	0.6345		21.3	NO
6	36	13C3-PFBA	216.1 > 171.8	8.84e3	1.22e4	0.247	0.735	1.27	1.27	9.05	49.9142	98.5		
7	37	13C3-PFPeA	266. > 221.8	1.27e4	2.26e4	0.247	0.571	2.26	2.26	7.04	49.9584	98.6		
8	38	13C3-PFBS	302. > 98.8	1.73e3	3.30e3	0.247	0.539	2.56	2.57	6.54	49.1862	97.1		
9	39	13C2-4:2 FTS	328.9>81.0	1.97e3	3.30e3	0.247	0.625	2.98	2.98	7.46	48.4109	95.5		
10	40	13C2-PFHxA	315 > 270	8.54e3	2.26e4	0.247	0.962	3.07	3.07	4.72	19.8673	98.0		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.24e4	0.247		3.69						
13	6	PFPeS	349.1>80.1	5.97e1	1.73e3	0.247		3.28	3.28	0.432	1.1203		1.74	NO
14	8	L-PFHxS	398.9 > 79.6	4.36e2	1.52e3	0.247		3.84	3.85	3.58	8.1390		1.67	NO
15	9	Br-PFHxS	398.9 > 79.6	3.94e1	1.52e3	0.247		3.74	3.72	0.323	0.8600		0.399	NO
16	68	Total PFHxS	398.9 > 79.6	4.75e2	1.52e3	0.247		3.87		3.90	8.9990			
17	41	13C4-PFHpA	367.2 > 321.8	1.24e4	2.26e4	0.247	0.562	3.68	3.69	6.83	49.2427	97.2		
18	38	13C3-PFBS	302. > 98.8	1.73e3	3.30e3	0.247	0.539	2.56	2.57	6.54	49.1862	97.1		
19	42	18O2-PFHxS	403.0 > 102.6	1.52e3	3.30e3	0.247	0.502	3.84	3.84	5.76	46.5156	91.8		
20	42	18O2-PFHxS	403.0 > 102.6	1.52e3	3.30e3	0.247	0.502	3.84	3.84	5.76	46.5156	91.8		
21	42	18O2-PFHxS	403.0 > 102.6	1.52e3	3.30e3	0.247	0.502	3.84	3.84	5.76	46.5156	91.8		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.30e3	0.247		4.15						
24	13	PFHpS	449 > 80.0	1.36e2	3.59e3	0.247		4.32	4.33	0.475	2.1501		1.78	NO
25	11	L-PFOA	412.8 > 368.9	5.46e2	2.20e4	0.247		4.20	4.21	0.310	0.9321		3.21	NO
26	12	Br-PFOA	412.8 > 368.9	4.12e2	2.20e4	0.247		4.10	4.05	0.234	0.6985		5.21	NO
27	69	Total PFOA	412.8 > 368.9	9.58e2	2.20e4	0.247		4.21		0.545	1.6306			
28	43	13C2-6:2 FTS	428.9>80.9	2.30e3	3.49e3	0.247	0.673	4.15	4.15	8.24	49.6634	98.0		
29	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
30	44	13C2-PFOA	414.9 > 369.7	2.20e4	2.76e4	0.247	0.819	4.21	4.21	9.95	49.2296	97.1		
31	44	13C2-PFOA	414.9 > 369.7	2.20e4	2.76e4	0.247	0.819	4.21	4.21	9.95	49.2296	97.1		
32	44	13C2-PFOA	414.9 > 369.7	2.20e4	2.76e4	0.247	0.819	4.21	4.21	9.95	49.2296	97.1		
33	-1													
34	14	PFNA	463.0 > 418.8		1.94e4	0.247		4.64						
35	15	PFOSA	497.7 > 77.9		1.75e3	0.247		4.71						
36	16	L-PFOS	498.9 > 79.9	5.41e1	3.59e3	0.247		4.72	4.74	0.189	0.8274		1.09	NO

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

Last Altered: Thursday, February 21, 2019 17:13:36 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:14:43 Pacific Standard Time

Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9	1.04e3	3.59e3	0.247		4.59	4.45	3.64	13.5564		0.625	NO
38	70	Total PFOS	498.9 > 79.9	1.10e3	3.59e3	0.247		4.74		3.83	14.3838			
39	45	13C5-PFNA	468.2 > 422.9	1.94e4	2.18e4	0.247	0.991	4.64	4.64	11.1	45.5619	89.9		
40	46	13C8-PFOSA	506.1 > 77.7	1.75e3	3.26e4	0.247	0.082	4.71	4.71	0.674	33.4398	66.0		
41	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
42	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
43	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
44	-1													
45	18	PFDA	513 > 468.8		1.76e4	0.247		5.02						
46	19	8:2 FTS	527 > 506.9		2.15e3	0.247		4.99						
47	20	PFNS	549.1 > 80.1		3.59e3	0.247		5.08						
48	26	PFDS	598.8 > 79.9		3.59e3	0.247		5.39						
49	25	PFUdA	563.0 > 518.9		2.39e4	0.247		5.34						
50	48	13C2-PFDA	515.1 > 469.9	1.76e4	2.98e4	0.247	0.768	5.02	5.02	7.36	38.8587	76.7		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.15e3	3.49e3	0.247	0.720	4.99	4.99	7.71	43.4161	85.7		
52	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
53	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
54	51	13C2-PFUdA	565 > 519.8	2.39e4	3.26e4	0.247	0.941	5.34	5.35	9.17	39.5099	78.0		
55	-1													
56	21	L-MeFOSAA	570 > 419		2.79e3	0.247		5.17						
57	22	Br-MeFOSAA	570. > 419		2.79e3	0.247		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	2.79e3	0.247		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.49e4	0.247		5.87						
60	30	PFTeDA	713.0 > 669.0		1.69e4	0.247		6.09						
61	50	d3-N-MeFOSAA	573.3 > 419	2.79e3	3.26e4	0.247	0.110	5.17	5.17	1.07	39.3609	77.7		
62	50	d3-N-MeFOSAA	573.3 > 419	2.79e3	3.26e4	0.247	0.110	5.17	5.17	1.07	39.3609	77.7		
63	50	d3-N-MeFOSAA	573.3 > 419	2.79e3	3.26e4	0.247	0.110	5.17	5.17	1.07	39.3609	77.7		
64	53	13C2-PFDoA	614.7 > 569.7	2.49e4	2.98e4	0.247	1.175	5.62	5.63	10.5	36.0870	71.2		
65	55	13C2-PFTeDA	715.1 > 669.7	1.69e4	3.26e4	0.247	0.696	6.09	6.09	6.48	37.7050	74.4		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		3.72e3	0.247		5.33						
68	24	Br-ETFOSAA	584.1 > 419		3.72e3	0.247		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	3.72e3	0.247		5.49		0.000				
70	27	PFDoA	612.9 > 569.0	1.37e1	2.49e4	0.247		5.63	5.63	0.00686	0.1869		16.5	YES
71	73	TCDA	498.3>106.9			0.247		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	3.72e3	3.26e4	0.247	0.145	5.33	5.33	1.43	40.0358	79.0		

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

Last Altered: Thursday, February 21, 2019 17:13:36 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:14:43 Pacific Standard Time

Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	3.72e3	3.26e4	0.247	0.145	5.33	5.33	1.43	40.0358	79.0		
74	52	d5-N-EtFOSAA	589.3 > 419	3.72e3	3.26e4	0.247	0.145	5.33	5.33	1.43	40.0358	79.0		
75	53	13C2-PFDoA	614.7 > 569.7	2.49e4	2.98e4	0.247	1.175	5.62	5.63	10.5	36.0870	71.2		
76	47	13C8-PFOS	507.0 > 79.9	3.59e3	3.49e3	0.247	1.068	4.73	4.73	12.9	48.8243	96.3		
77	-1													
78	60	13C4-PFBA	217. > 172	1.22e4	1.22e4	0.247	1.000	1.26	1.27	12.5	50.6770	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.26e4	2.26e4	0.247	1.000	3.07	3.07	12.5	50.6770	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.30e3	3.30e3	0.247	1.000	3.84	3.84	12.5	50.6770	100.0		
81	63	13C8-PFOA	420.9 > 376	2.76e4	2.76e4	0.247	1.000	4.21	4.21	12.5	50.6770	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.18e4	2.18e4	0.247	1.000	4.64	4.64	12.5	50.6770	100.0		
83	65	13C4-PFOS	503 > 79.9	3.49e3	3.49e3	0.247	1.000	4.73	4.74	12.5	50.6770	100.0		
84	66	13C6-PFDA	519.1 > 473.7	2.98e4	2.98e4	0.247	1.000	5.01	5.02	12.5	50.6770	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.26e4	3.26e4	0.247	1.000	5.34	5.35	12.5	50.6770	100.0		

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

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Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

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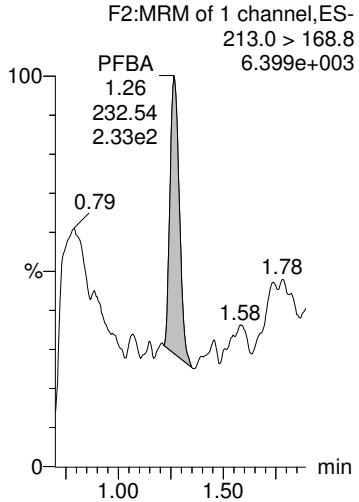

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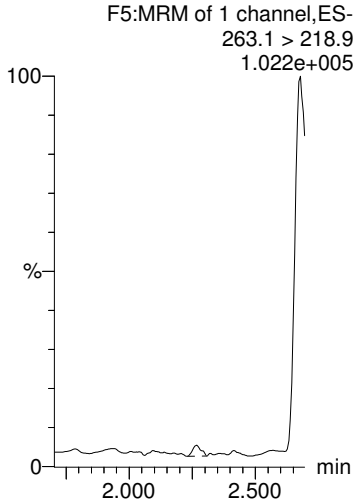

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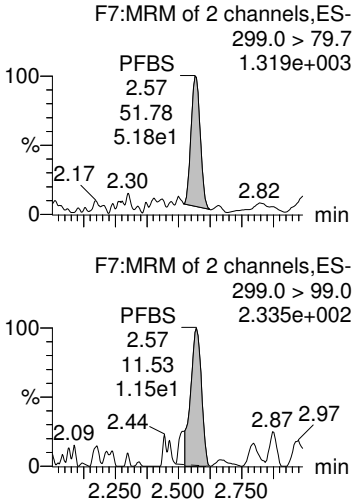

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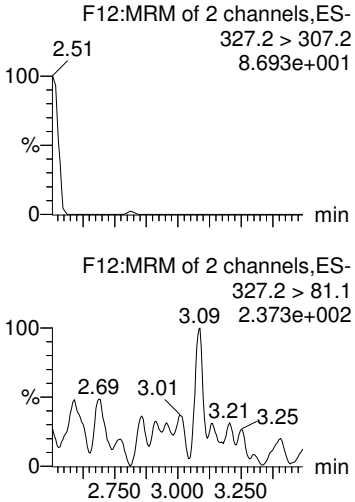

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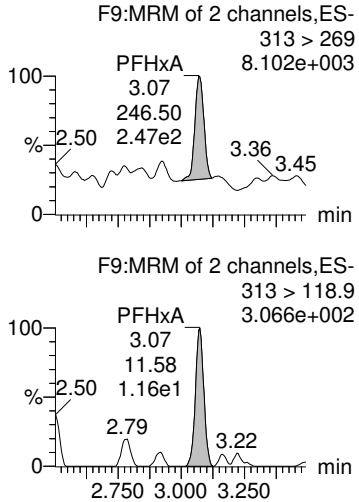

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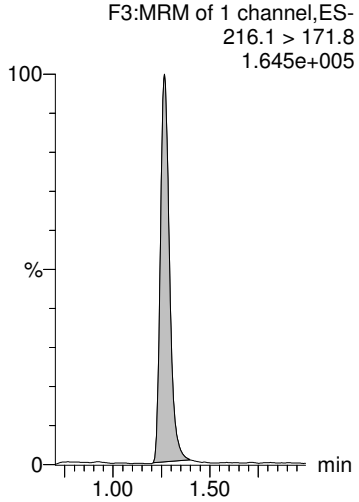

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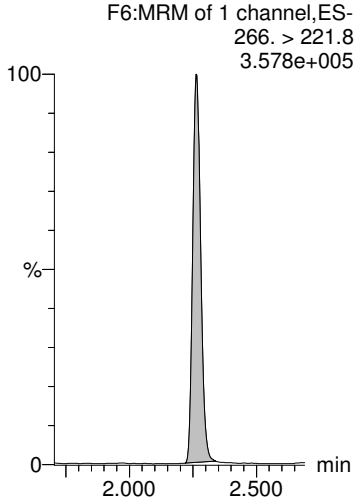

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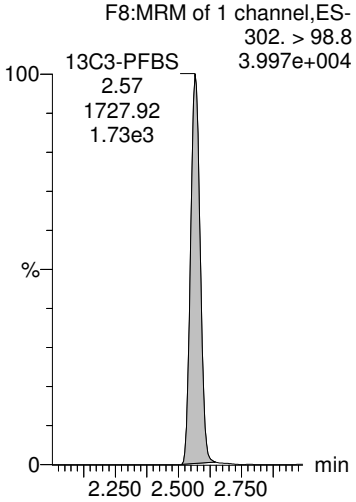

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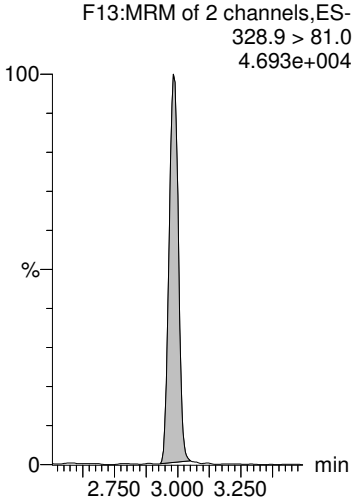

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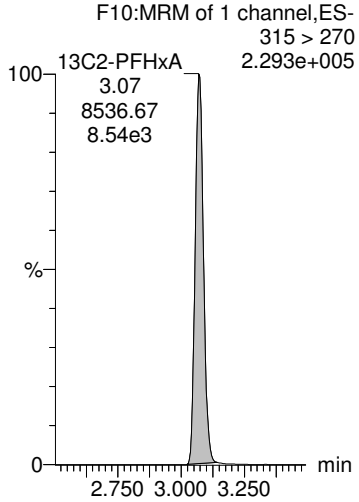

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

Last Altered: Thursday, February 21, 2019 17:13:36 Pacific Standard Time
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Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

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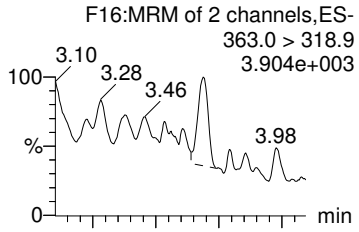

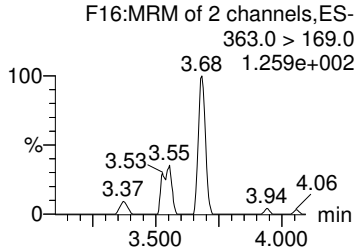

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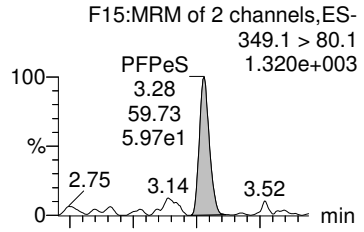
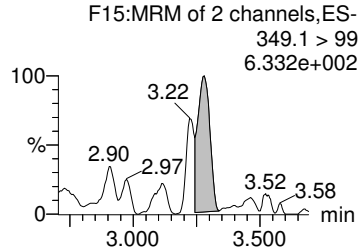
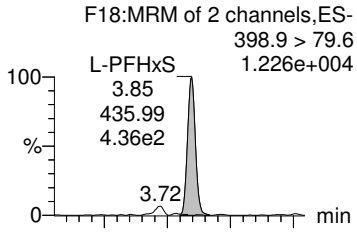
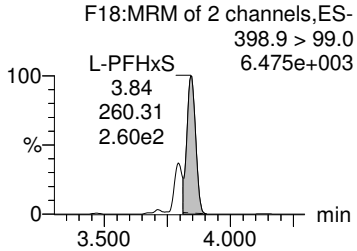




L-PFHxS





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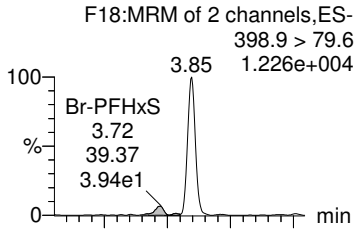

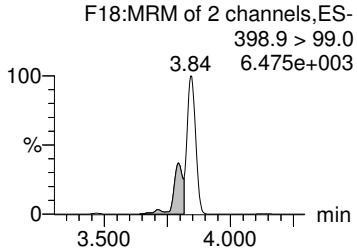

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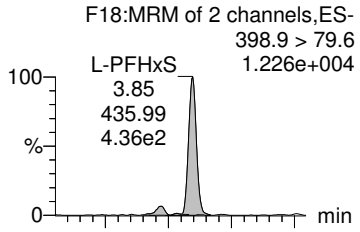

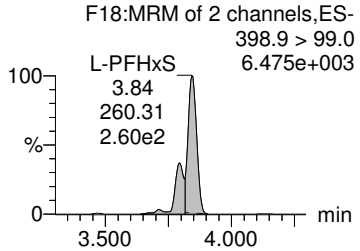

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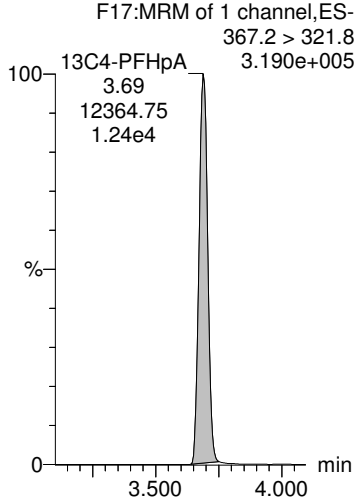

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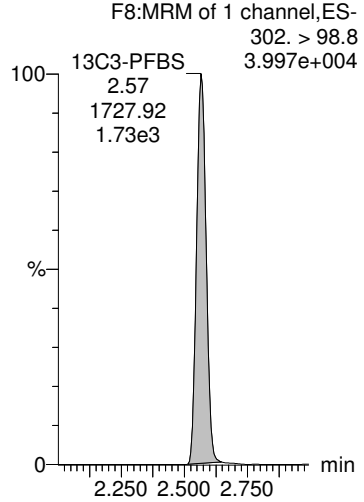

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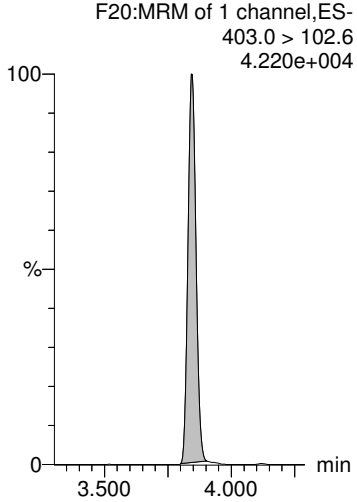

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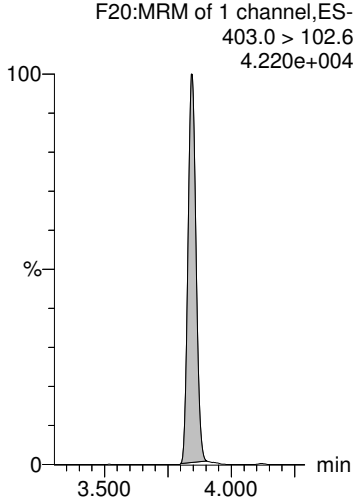

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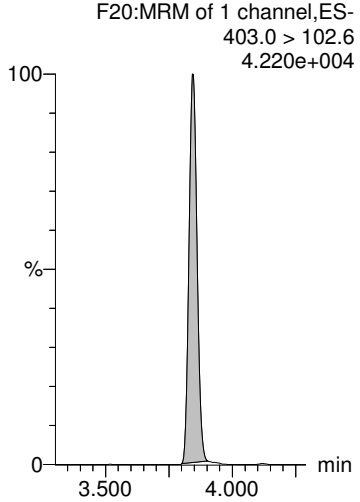

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

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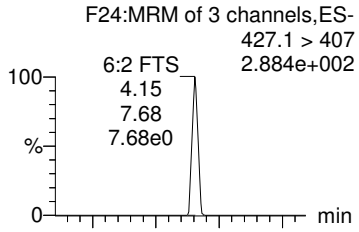
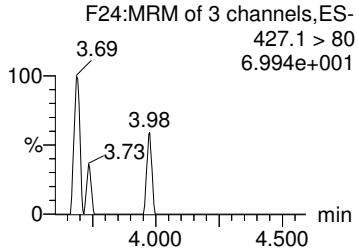
Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

6:2 FTS





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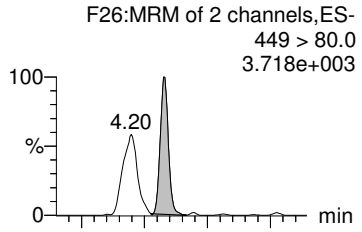
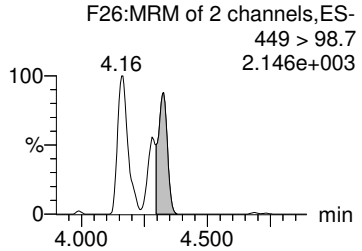
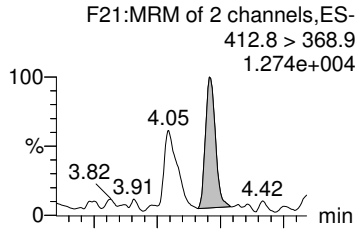
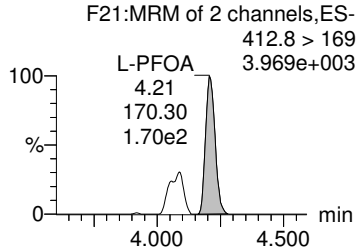


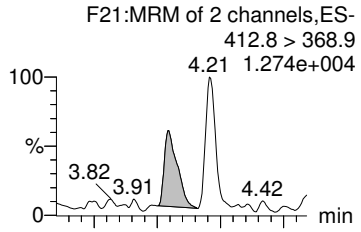


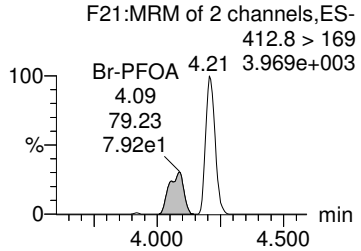
L-PFOA





Br-PFOA





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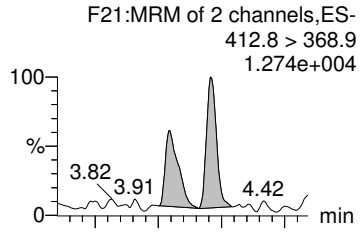
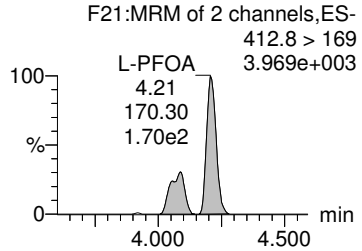
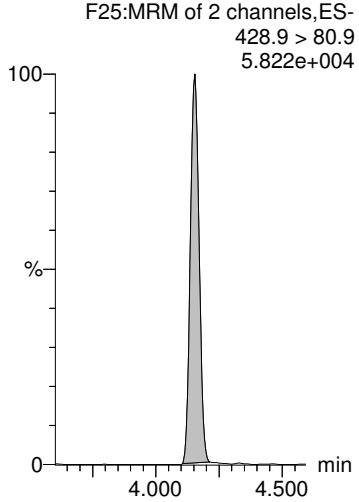
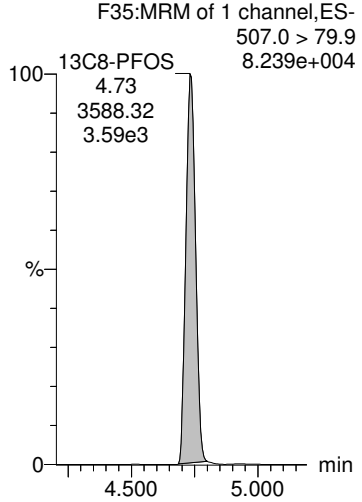




13C2-6:2 FTS



13C8-PFOS



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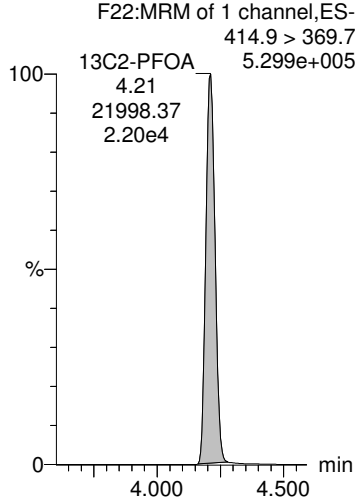

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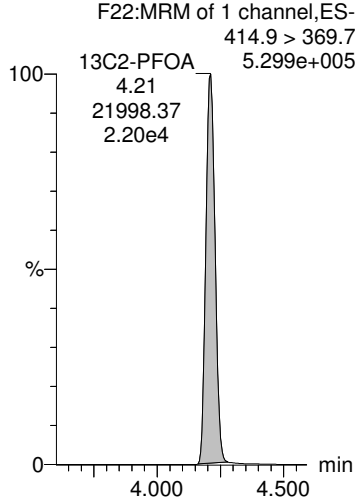

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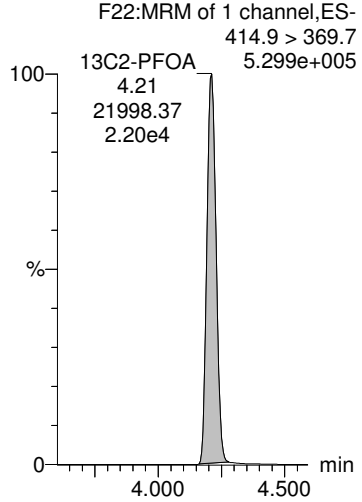

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

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Printed: Thursday, February 21, 2019 17:14:43 Pacific Standard Time

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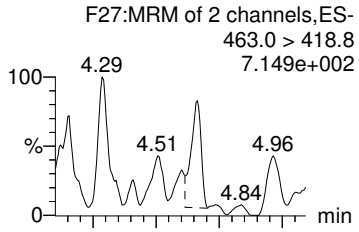

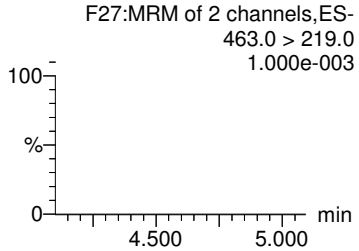

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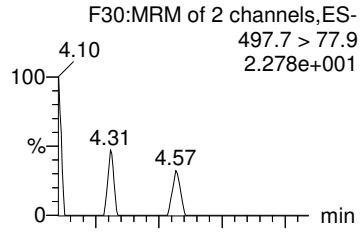

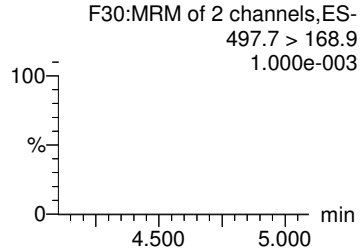

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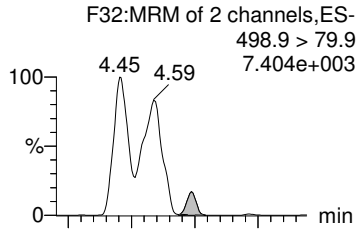
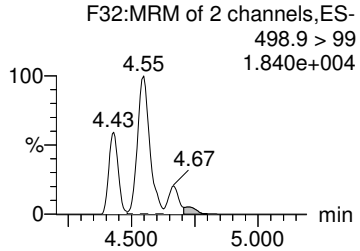
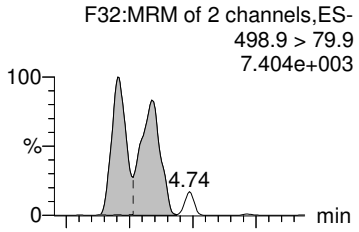
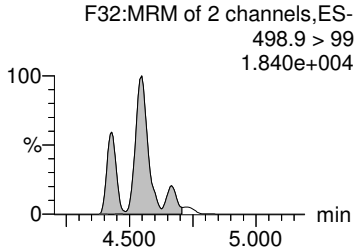




Br-PFOS





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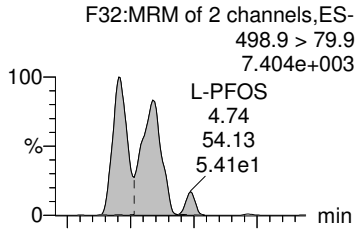

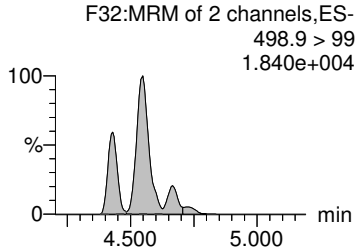

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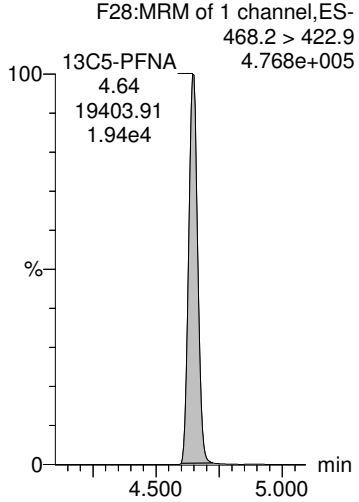

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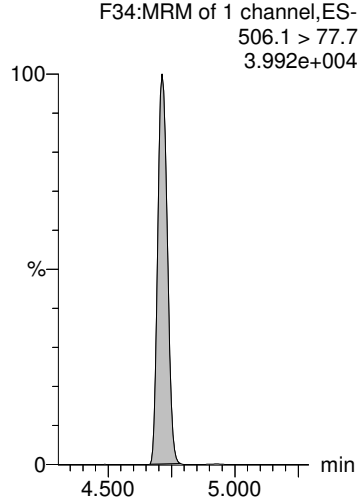

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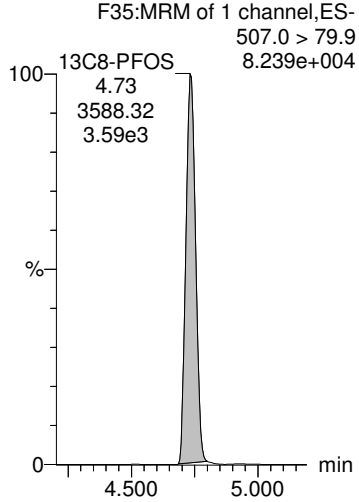

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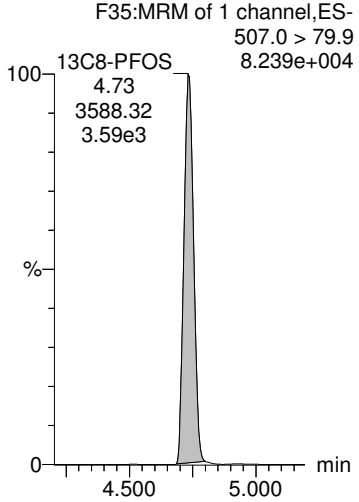

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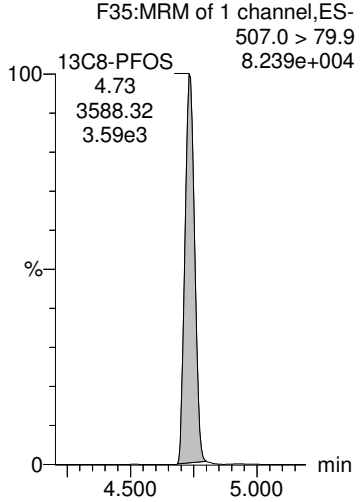

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

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Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

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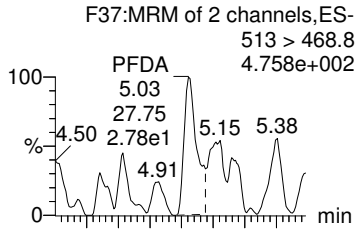

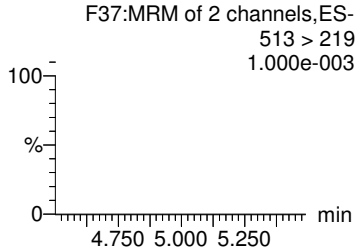

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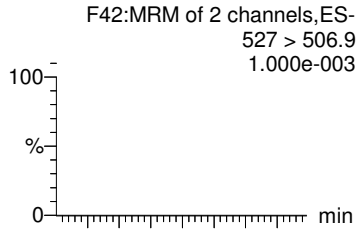

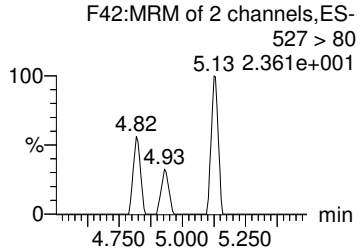

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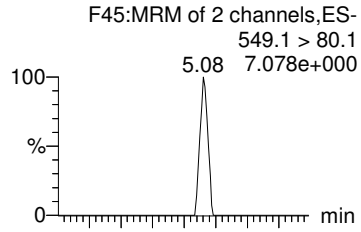

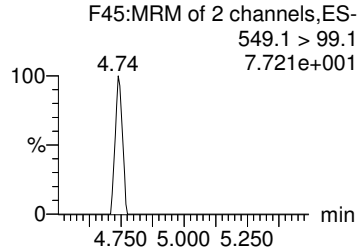

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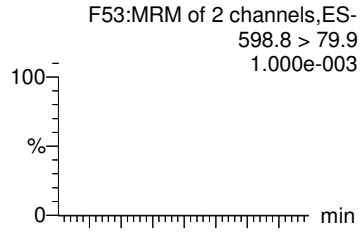

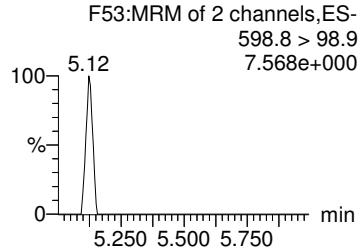

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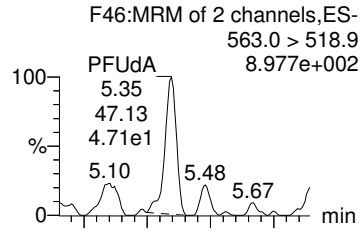

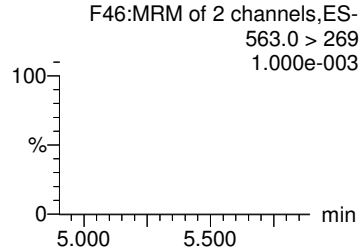

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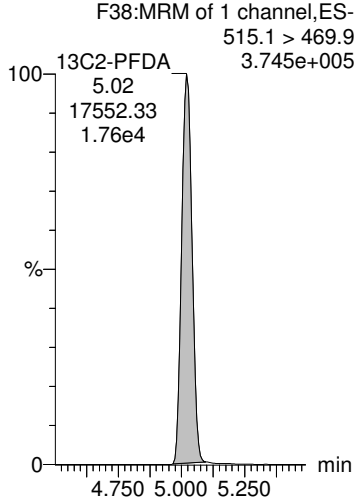
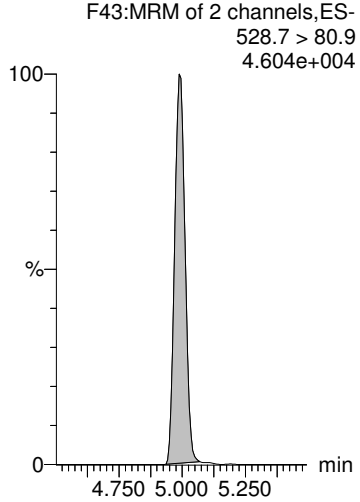


13C2-8:2 FTS



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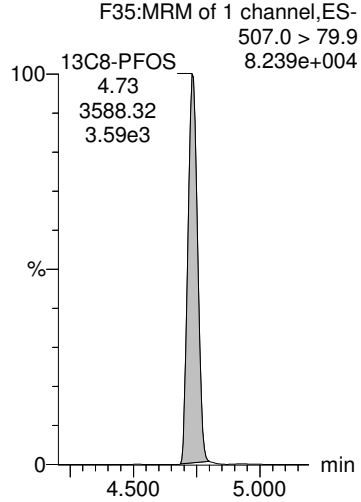

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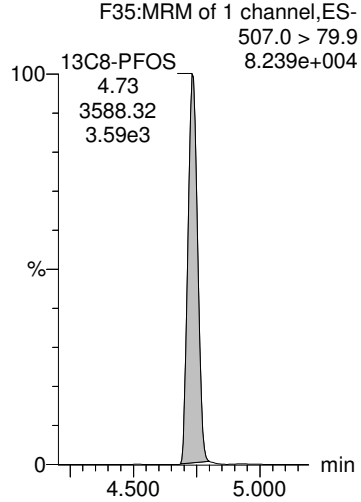

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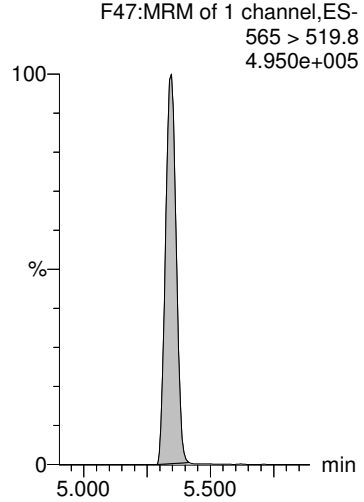

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

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Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

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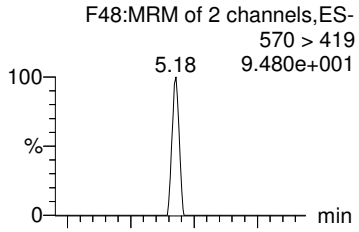
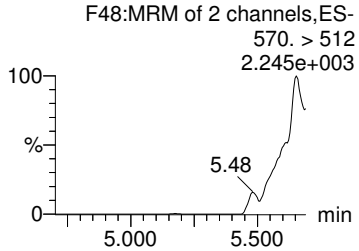
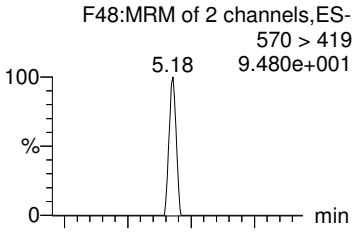
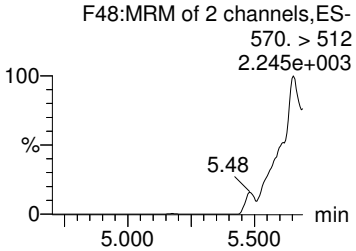




Br-MeFOSAA





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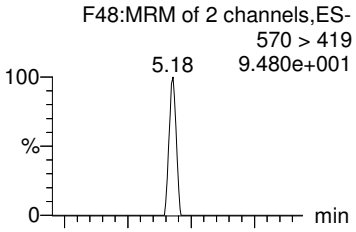

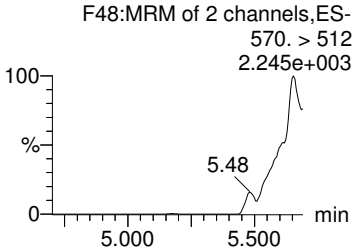

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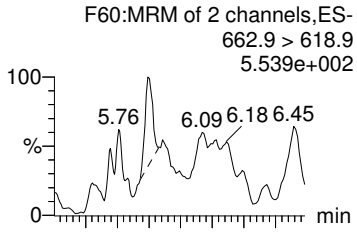

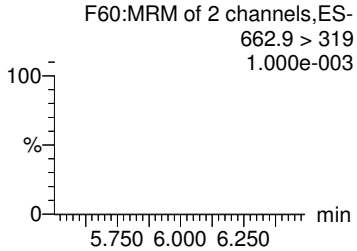

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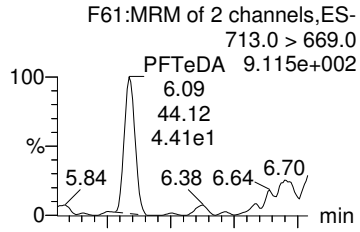

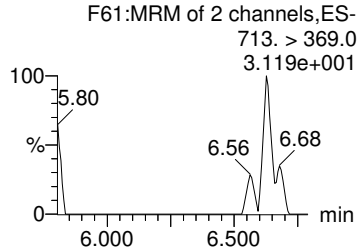

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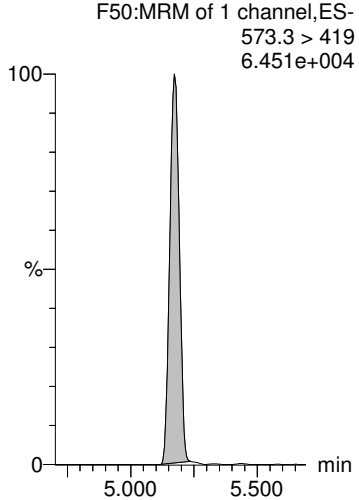

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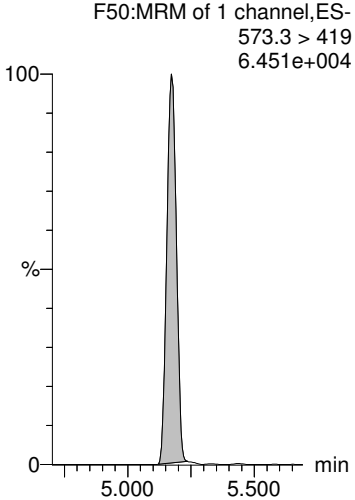

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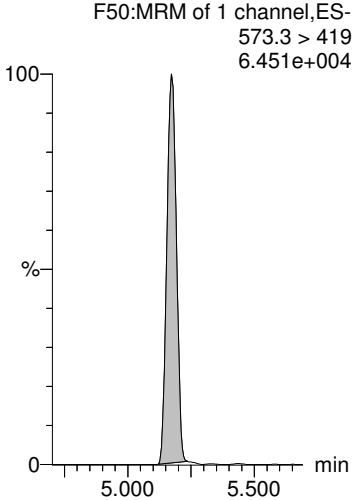

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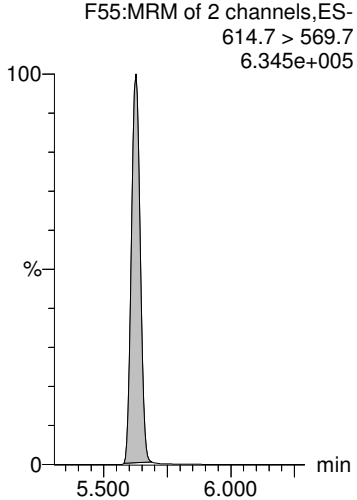

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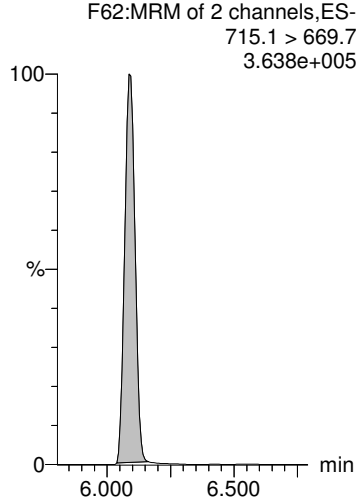

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Vista Analytical Laboratory L24 LBT

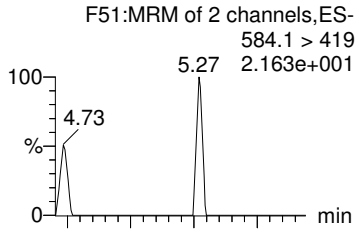
Review: AMR 2/24/2019

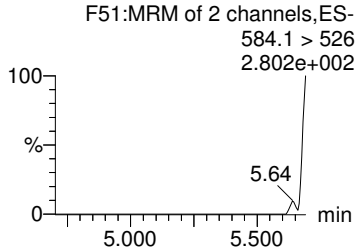
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

Last Altered: Thursday, February 21, 2019 17:13:36 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:14:43 Pacific Standard Time

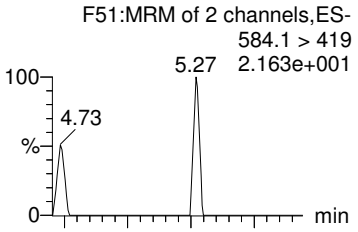
Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

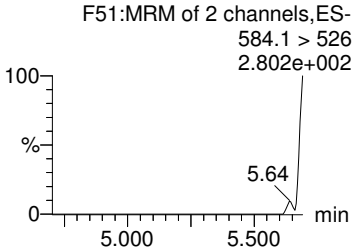
L-EtFOSAA



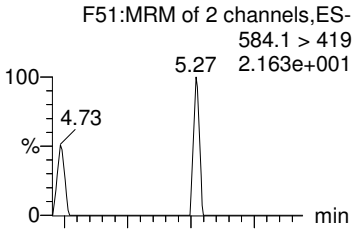


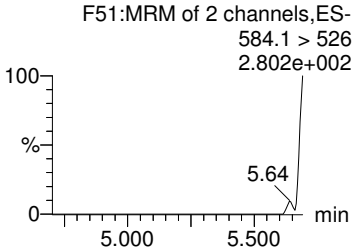
Br-ETFOSAA



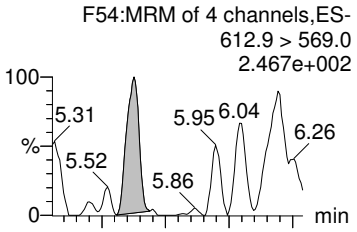


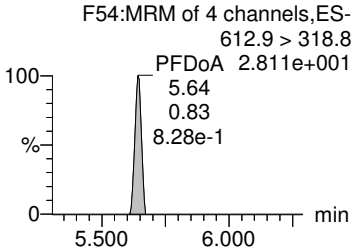
Total N-EtFOSAA



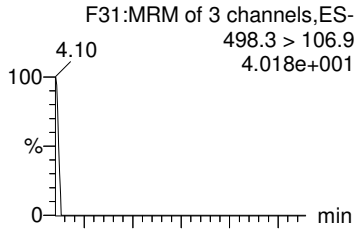


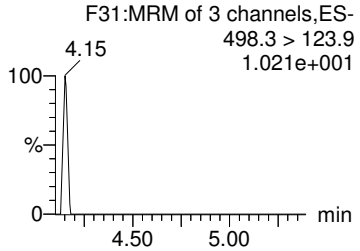
PFDoA



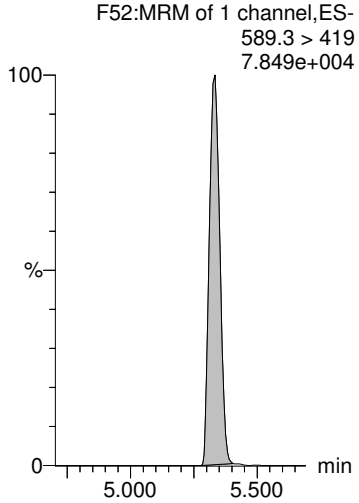


TCDA





d5-N-EtFOSAA



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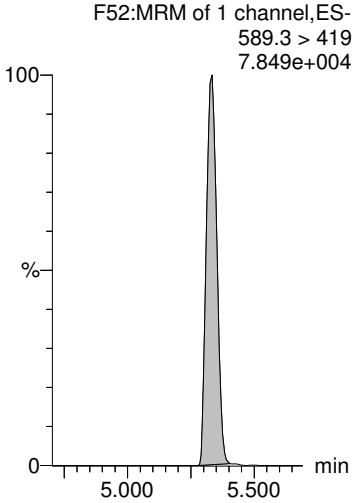

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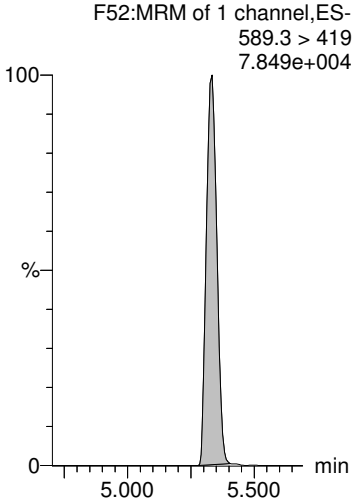
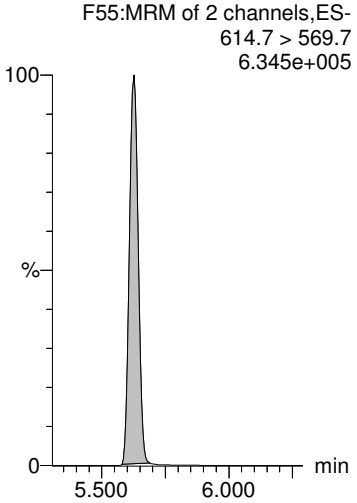
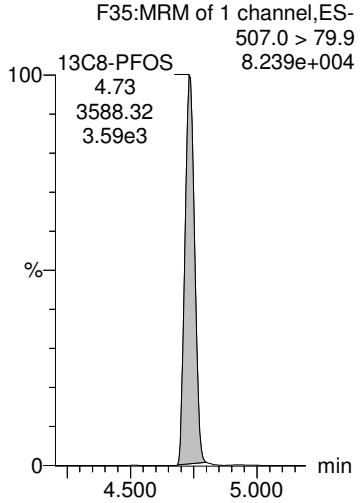


13C2-PFDoA



13C8-PFOS



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

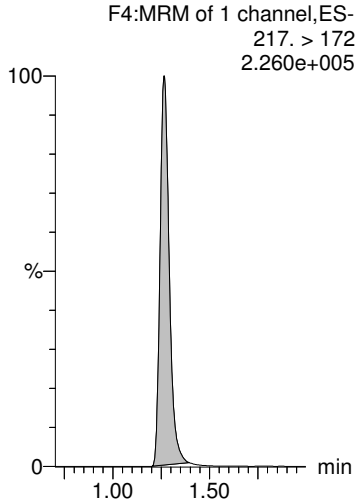
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-20.qld

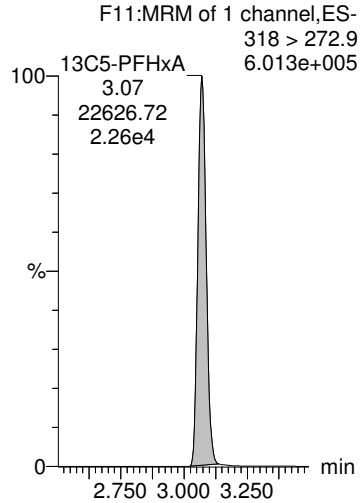
Last Altered: Thursday, February 21, 2019 17:13:36 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:14:43 Pacific Standard Time

Name: 190219M2_20, Date: 19-Feb-2019, Time: 20:01:35, ID: 1900272-04 MW-03i 0.24666, Description: MW-03i

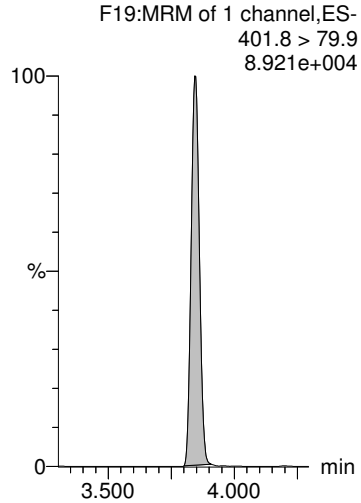
13C4-PFBA



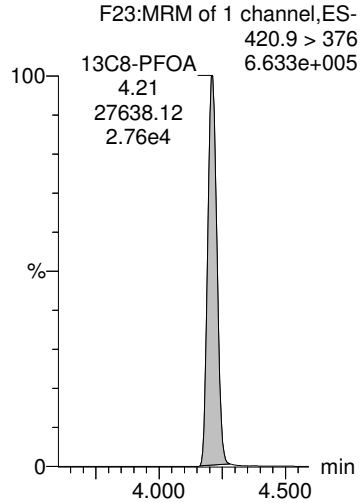
13C5-PFHxA



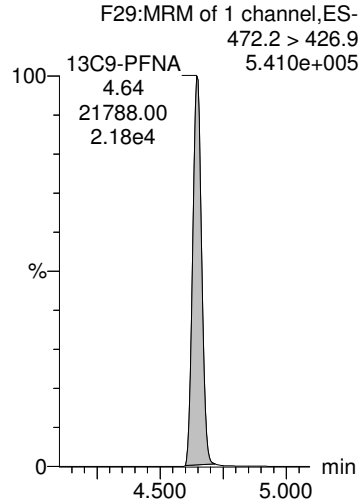
13C3-PFHxS



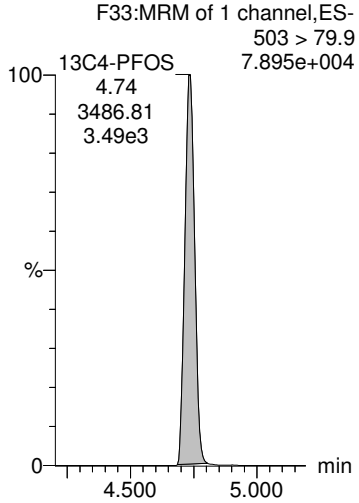
13C8-PFOA



13C9-PFNA



13C4-PFOS



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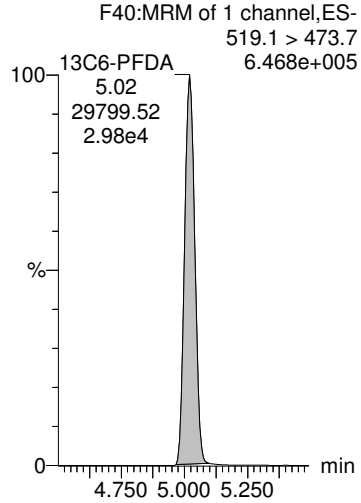
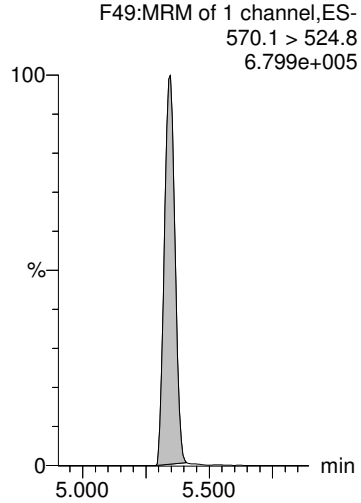


13C7-PFUdA



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		7.20e3	0.243		1.25						
2	2	PFPeA	263.1 > 218.9		1.06e4	0.243		2.24						
3	3	PFBS	299.0 > 79.7		1.57e3	0.243		2.55						
4	4	4:2 FTS	327.2>307.2		1.75e3	0.243		2.97						
5	5	PFHxA	313 > 269		7.36e3	0.243		3.06						
6	36	13C3-PFBA	216.1 > 171.8	7.20e3	1.05e4	0.243	0.735	1.27	1.25	8.53	47.7600	92.9		
7	37	13C3-PFPeA	266. > 221.8	1.06e4	2.07e4	0.243	0.571	2.26	2.24	6.43	46.2985	90.1		
8	38	13C3-PFBS	302. > 98.8	1.57e3	3.34e3	0.243	0.539	2.56	2.55	5.87	44.8039	87.1		
9	39	13C2-4:2 FTS	328.9>81.0	1.75e3	3.34e3	0.243	0.625	2.98	2.97	6.57	43.2450	84.1		
10	40	13C2-PFHxA	315 > 270	7.36e3	2.07e4	0.243	0.962	3.07	3.06	4.45	19.0243	92.5		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.20e4	0.243		3.68						
13	6	PFPeS	349.1>80.1		1.57e3	0.243		3.26						
14	8	L-PFHxS	398.9 > 79.6	1.60e2	1.56e3	0.243		3.84	3.84	1.28	3.0430		1.68	NO
15	9	Br-PFHxS	398.9 > 79.6		1.56e3	0.243		3.74						
16	68	Total PFHxS	398.9 > 79.6	1.60e2	1.56e3	0.243		3.87		1.28	3.0430			
17	41	13C4-PFHpA	367.2 > 321.8	1.20e4	2.07e4	0.243	0.562	3.68	3.68	7.28	53.2522	103.6		
18	38	13C3-PFBS	302. > 98.8	1.57e3	3.34e3	0.243	0.539	2.56	2.55	5.87	44.8039	87.1		
19	42	18O2-PFHxS	403.0 > 102.6	1.56e3	3.34e3	0.243	0.502	3.84	3.84	5.86	47.9421	93.2		
20	42	18O2-PFHxS	403.0 > 102.6	1.56e3	3.34e3	0.243	0.502	3.84	3.84	5.86	47.9421	93.2		
21	42	18O2-PFHxS	403.0 > 102.6	1.56e3	3.34e3	0.243	0.502	3.84	3.84	5.86	47.9421	93.2		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.36e3	0.243		4.15						
24	13	PFHpS	449 > 80.0		3.66e3	0.243		4.32						
25	11	L-PFOA	412.8 > 368.9	7.24e2	2.19e4	0.243		4.20	4.21	0.413	1.2671		2.99	NO
26	12	Br-PFOA	412.8 > 368.9		2.19e4	0.243		4.10						
27	69	Total PFOA	412.8 > 368.9	7.24e2	2.19e4	0.243		4.21		0.413	1.2671			
28	43	13C2-6:2 FTS	428.9>80.9	2.36e3	3.72e3	0.243	0.673	4.15	4.15	7.93	48.4534	94.2		
29	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
30	44	13C2-PFOA	414.9 > 369.7	2.19e4	3.03e4	0.243	0.819	4.21	4.21	9.05	45.4361	88.4		
31	44	13C2-PFOA	414.9 > 369.7	2.19e4	3.03e4	0.243	0.819	4.21	4.21	9.05	45.4361	88.4		
32	44	13C2-PFOA	414.9 > 369.7	2.19e4	3.03e4	0.243	0.819	4.21	4.21	9.05	45.4361	88.4		
33	-1													
34	14	PFNA	463.0 > 418.8		2.04e4	0.243		4.64						
35	15	PFOSA	497.7 > 77.9		1.84e3	0.243		4.71						
36	16	L-PFOS	498.9 > 79.9		3.66e3	0.243		5.15						

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9	3.47e2	3.66e3	0.243		4.62	4.45	1.19	4.5744		0.766	NO
38	70	Total PFOS	498.9 > 79.9	3.47e2	3.66e3	0.243		4.74		1.19	4.5744			
39	45	13C5-PFNA	468.2 > 422.9	2.04e4	2.35e4	0.243	0.991	4.64	4.64	10.9	45.0781	87.7		
40	46	13C8-PFOSA	506.1 > 77.7	1.84e3	3.54e4	0.243	0.082	4.71	4.71	0.649	32.6825	63.6		
41	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
42	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
43	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
44	-1													
45	18	PFDA	513 > 468.8		2.02e4	0.243		5.02						
46	19	8:2 FTS	527 > 506.9		2.40e3	0.243		4.99						
47	20	PFNS	549.1 > 80.1		3.66e3	0.243		5.08						
48	26	PFDS	598.8 > 79.9		3.66e3	0.243		5.39						
49	25	PFUdA	563.0 > 518.9	9.46e1	2.50e4	0.243		5.34	5.35	0.0472	0.1666		6.31	NO
50	48	13C2-PFDA	515.1 > 469.9	2.02e4	3.18e4	0.243	0.768	5.02	5.02	7.96	42.6063	82.9		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.40e3	3.72e3	0.243	0.720	4.99	4.99	8.05	45.9935	89.5		
52	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
53	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
54	51	13C2-PFUdA	565 > 519.8	2.50e4	3.54e4	0.243	0.941	5.34	5.34	8.85	38.6873	75.2		
55	-1													
56	21	L-MeFOSAA	570 > 419		3.03e3	0.243		5.17						
57	22	Br-MeFOSAA	570. > 419		3.03e3	0.243		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	3.03e3	0.243		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.49e4	0.243		5.87						
60	30	PFTeDA	713.0 > 669.0		1.77e4	0.243		6.09						
61	50	d3-N-MeFOSAA	573.3 > 419	3.03e3	3.54e4	0.243	0.110	5.17	5.17	1.07	39.9828	77.8		
62	50	d3-N-MeFOSAA	573.3 > 419	3.03e3	3.54e4	0.243	0.110	5.17	5.17	1.07	39.9828	77.8		
63	50	d3-N-MeFOSAA	573.3 > 419	3.03e3	3.54e4	0.243	0.110	5.17	5.17	1.07	39.9828	77.8		
64	53	13C2-PFDoA	614.7 > 569.7	2.49e4	3.18e4	0.243	1.175	5.62	5.63	9.80	34.3072	66.7		
65	55	13C2-PFTeDA	715.1 > 669.7	1.77e4	3.54e4	0.243	0.696	6.09	6.09	6.25	36.9345	71.8		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		4.27e3	0.243		5.33						
68	24	Br-ETFOSAA	584.1 > 419		4.27e3	0.243		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	4.27e3	0.243		5.49		0.000				
70	27	PFDoA	612.9 > 569.0	1.27e1	2.49e4	0.243		5.63	5.63	0.00639	0.1876		8.12	NO
71	73	TCDA	498.3>106.9			0.243		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	4.27e3	3.54e4	0.243	0.145	5.33	5.33	1.51	42.8586	83.4		

GM 2/24/2019

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	4.27e3	3.54e4	0.243	0.145	5.33	5.33	1.51	42.8586	83.4		
74	52	d5-N-EtFOSAA	589.3 > 419	4.27e3	3.54e4	0.243	0.145	5.33	5.33	1.51	42.8586	83.4		
75	53	13C2-PFDoA	614.7 > 569.7	2.49e4	3.18e4	0.243	1.175	5.62	5.63	9.80	34.3072	66.7		
76	47	13C8-PFOS	507.0 > 79.9	3.66e3	3.72e3	0.243	1.068	4.73	4.73	12.3	47.3062	92.0		
77	-1													
78	60	13C4-PFBA	217. > 172	1.05e4	1.05e4	0.243	1.000	1.26	1.25	12.5	51.4128	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.07e4	2.07e4	0.243	1.000	3.07	3.06	12.5	51.4128	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.34e3	3.34e3	0.243	1.000	3.84	3.84	12.5	51.4128	100.0		
81	63	13C8-PFOA	420.9 > 376	3.03e4	3.03e4	0.243	1.000	4.21	4.21	12.5	51.4128	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.35e4	2.35e4	0.243	1.000	4.64	4.64	12.5	51.4128	100.0		
83	65	13C4-PFOS	503 > 79.9	3.72e3	3.72e3	0.243	1.000	4.73	4.73	12.5	51.4128	100.0		
84	66	13C6-PFDA	519.1 > 473.7	3.18e4	3.18e4	0.243	1.000	5.01	5.02	12.5	51.4128	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.54e4	3.54e4	0.243	1.000	5.34	5.34	12.5	51.4128	100.0		

 GM 2/24/2019

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

Method: Z:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
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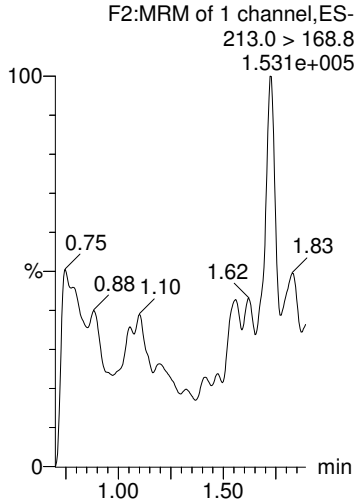
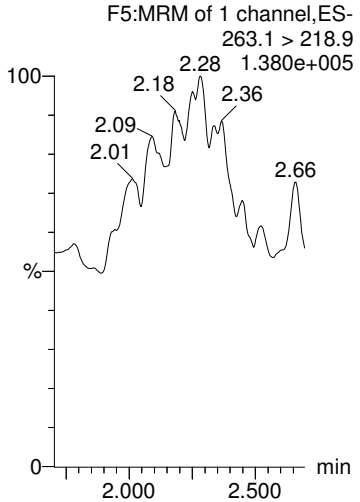
Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

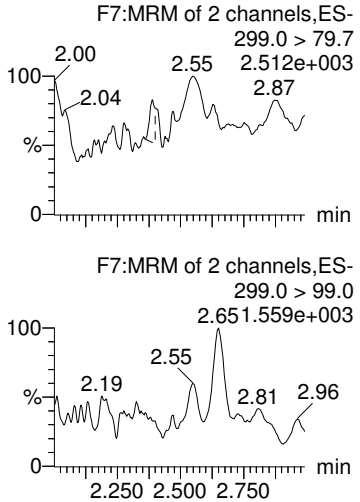
PFBA



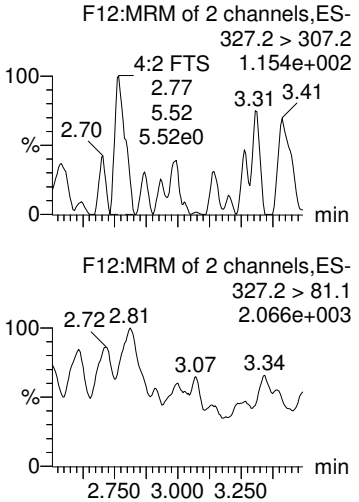
PFPeA



PFBS



4:2 FTS



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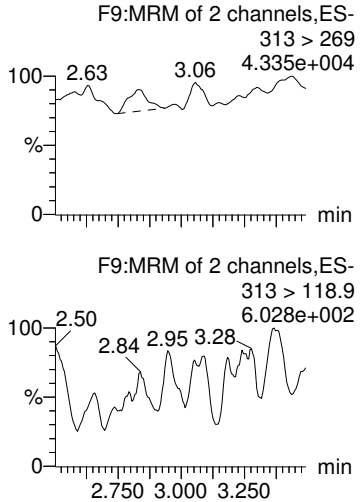
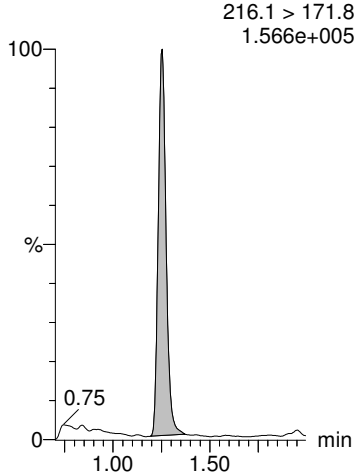


13C3-PFBA



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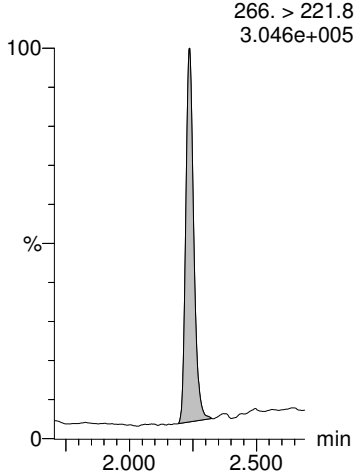

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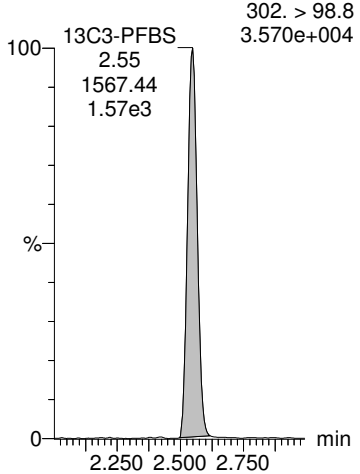
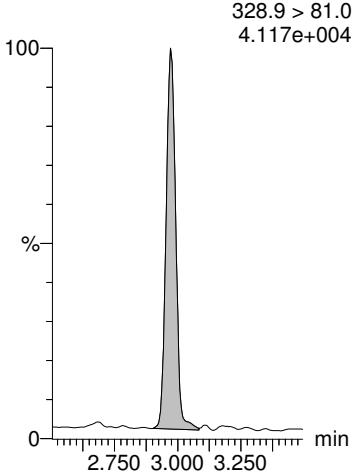


13C2-4:2 FTS



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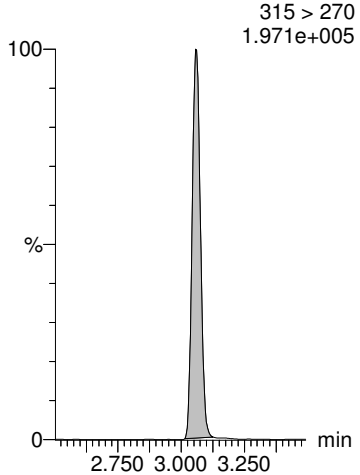

 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

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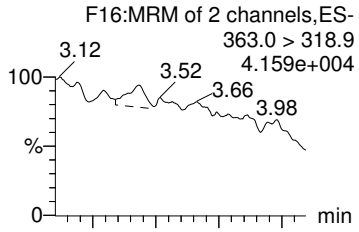

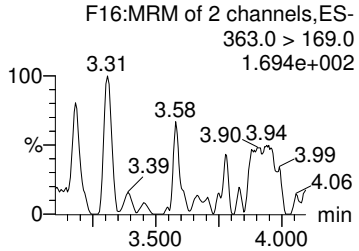

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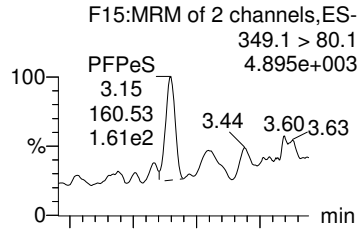
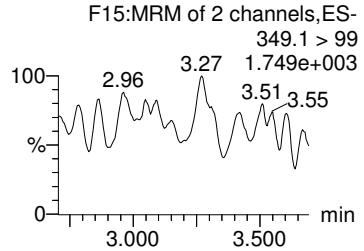
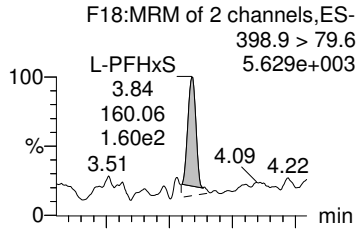
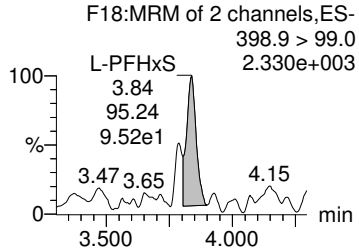


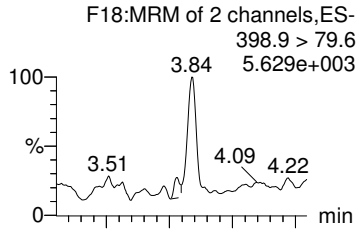


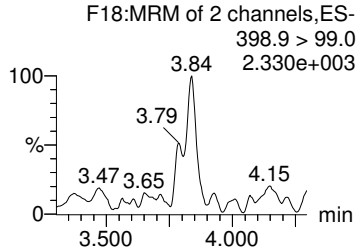
L-PFHxS



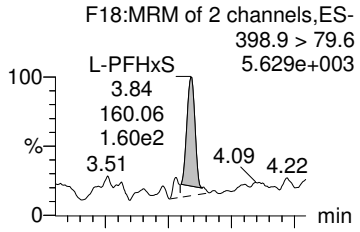


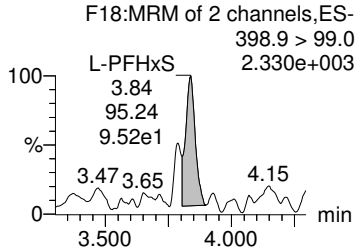
Br-PFHxS





Total PFHxS





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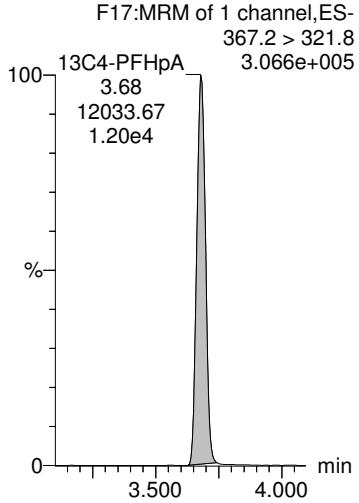
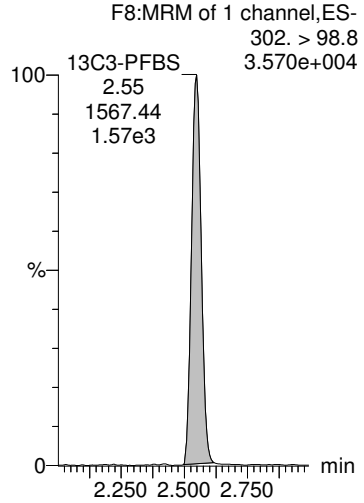


13C3-PFBS



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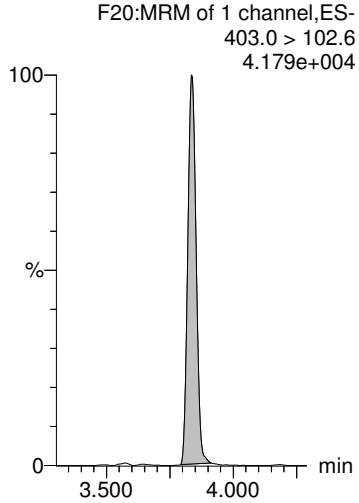

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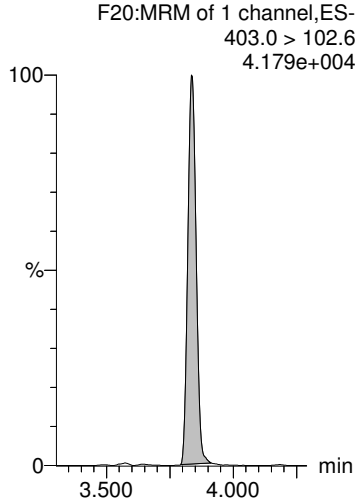

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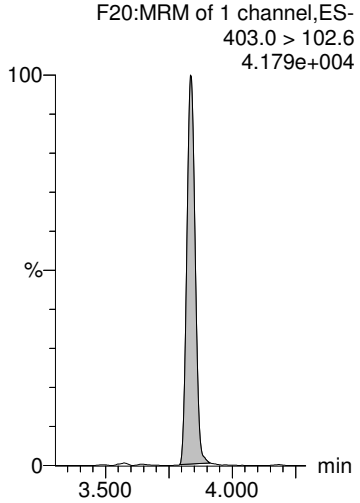

 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

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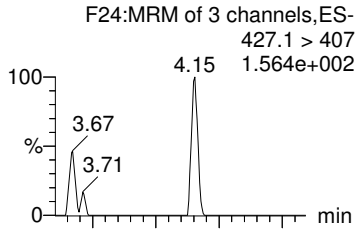
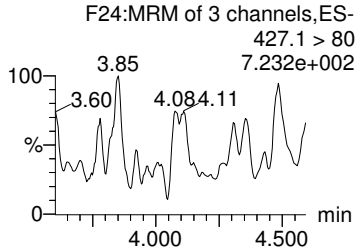
Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

6:2 FTS





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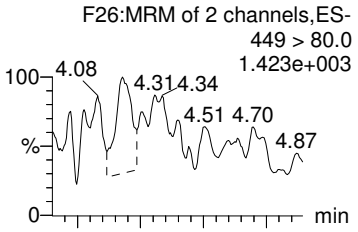
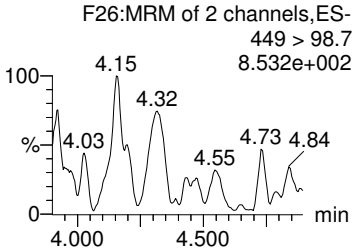
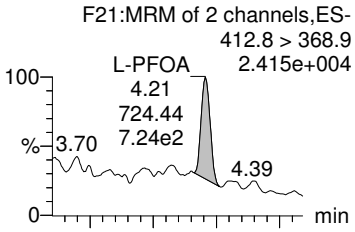
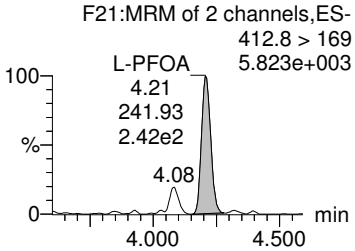




L-PFOA





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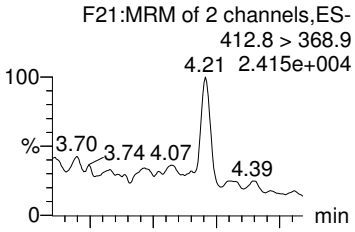

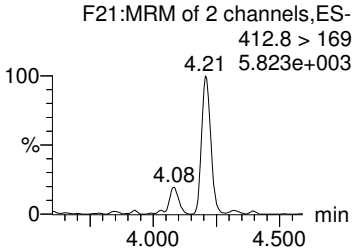

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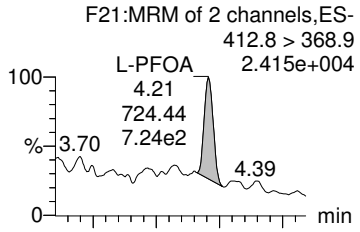
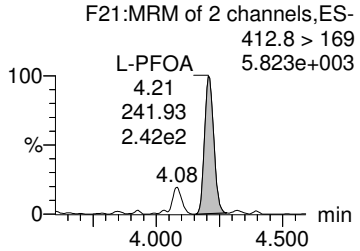
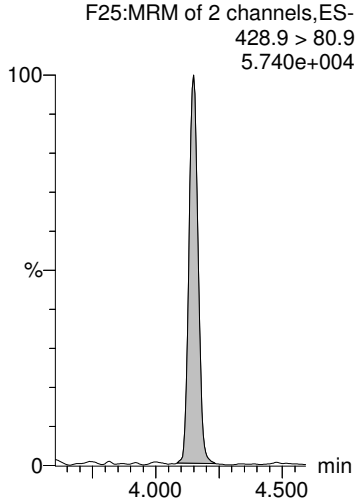
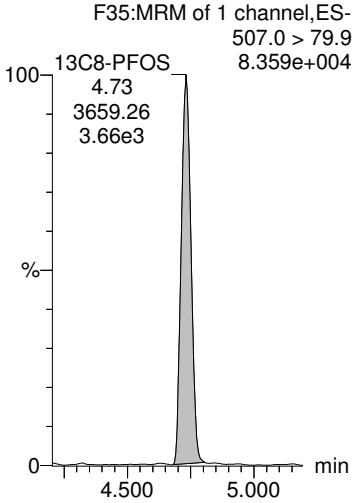




13C2-6:2 FTS



13C8-PFOS



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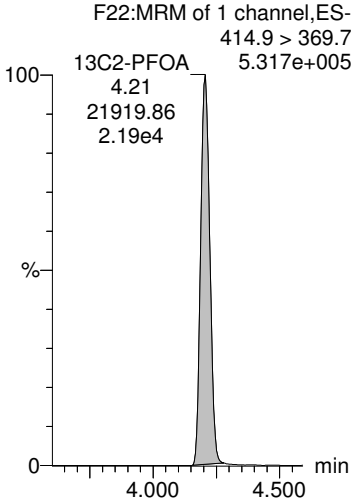

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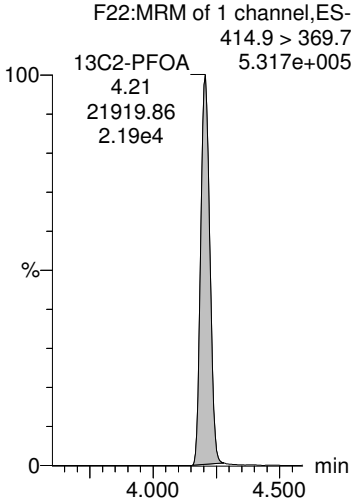

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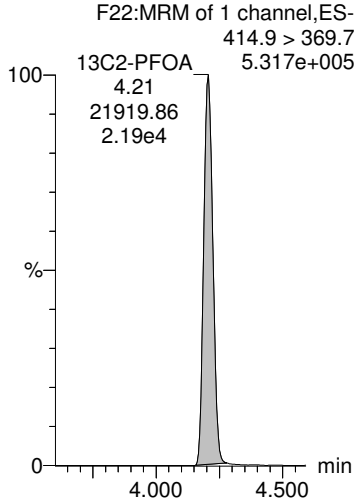

 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

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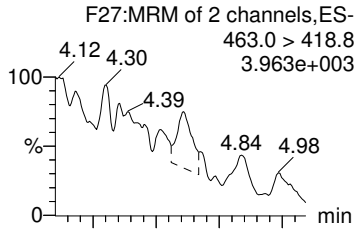

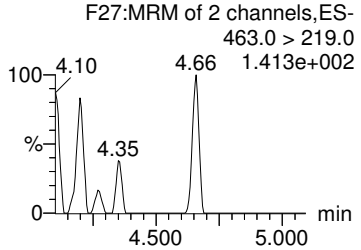

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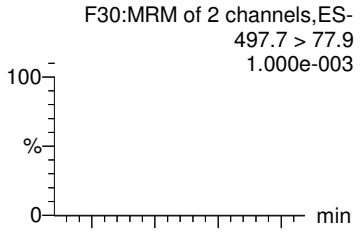
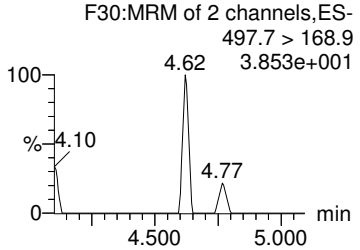
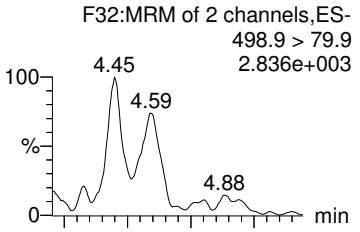
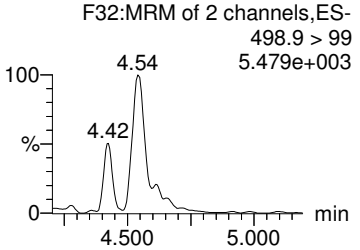


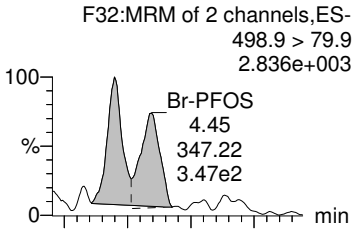


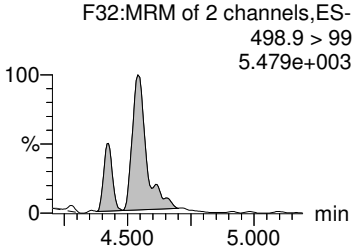
L-PFOS



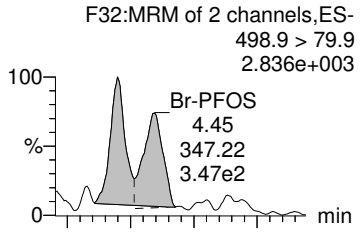


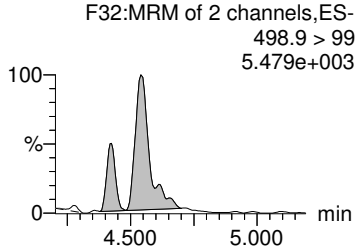
Br-PFOS





Total PFOS





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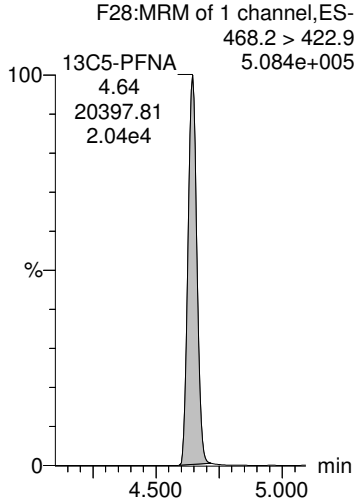
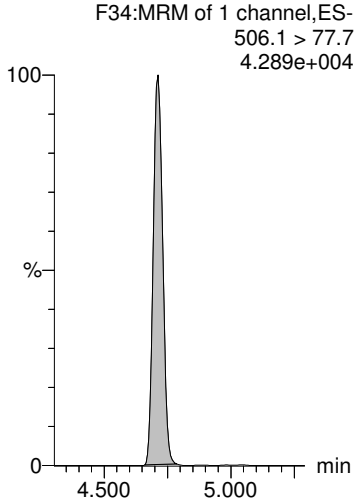
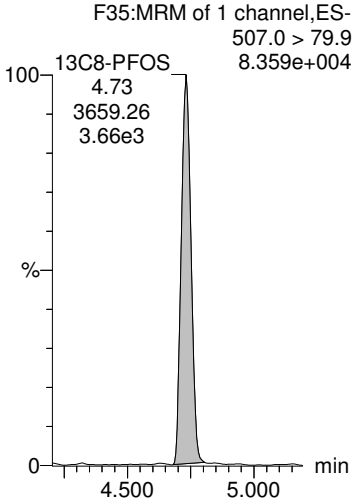


13C8-PFOSA



13C8-PFOS



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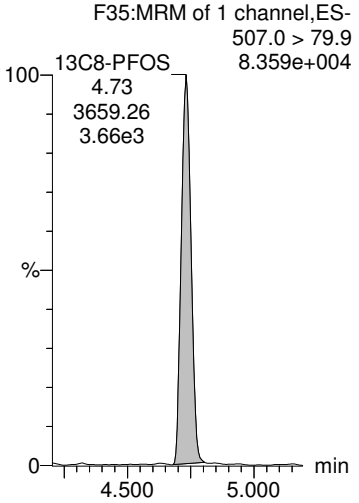

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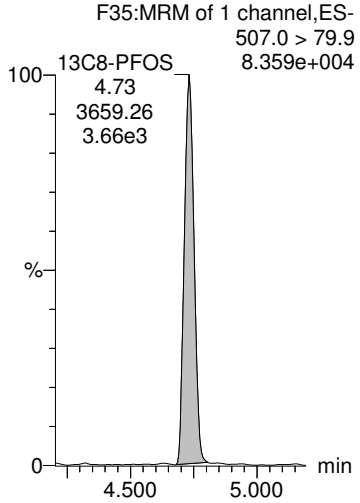

 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

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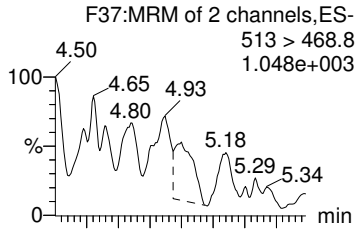
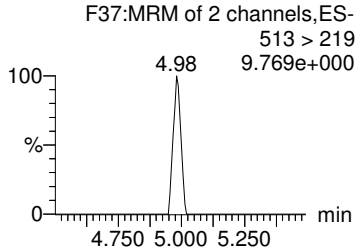
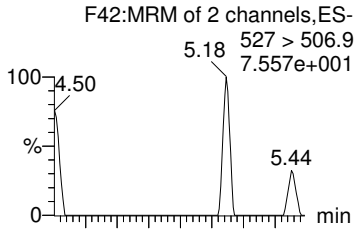
Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

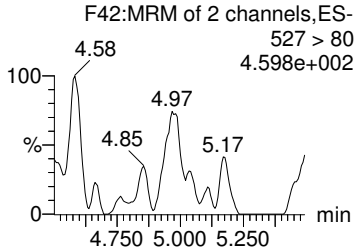
PFDA



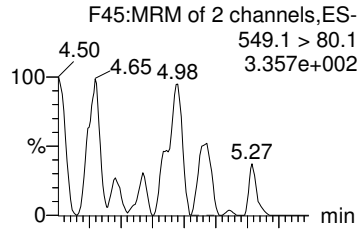


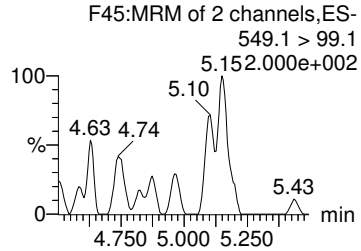
8:2 FTS





PFNS





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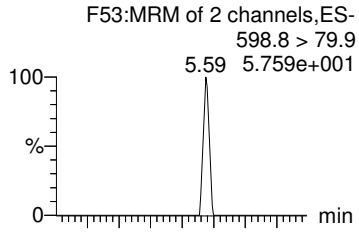
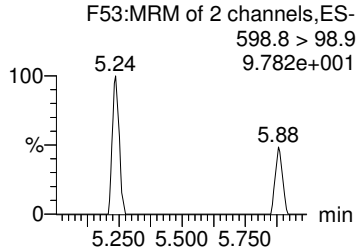
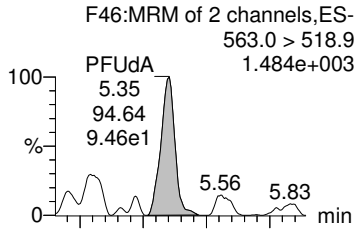
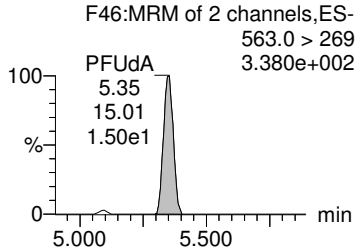


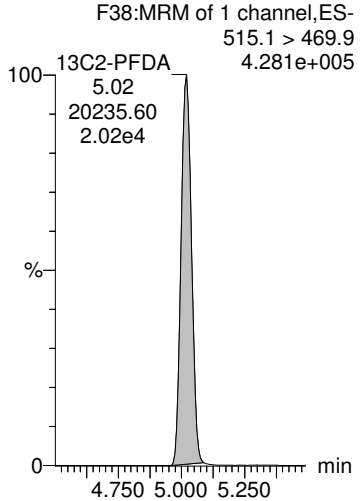


PFUdA

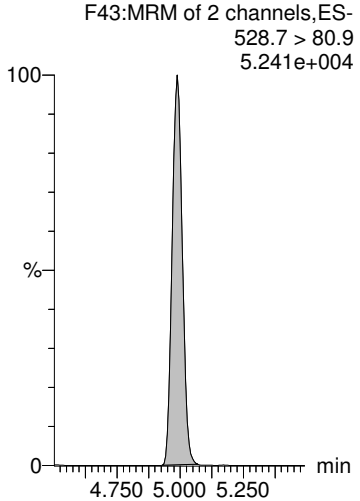




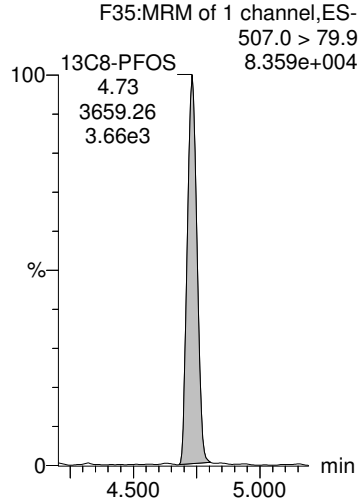
13C2-PFDA



13C2-8:2 FTS



13C8-PFOS



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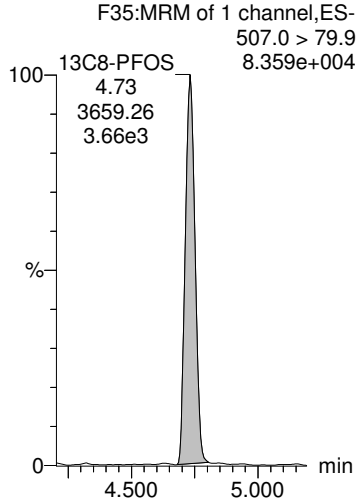
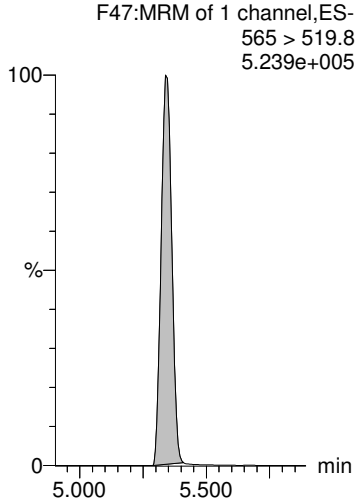


13C2-PFUdA



 GM 2/24/2019

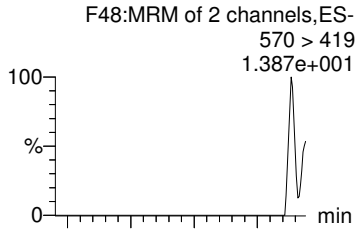
Review: AMR 2/24/2019

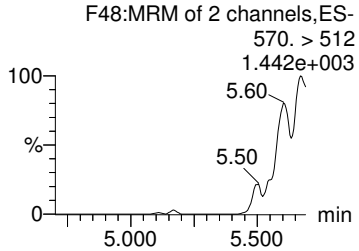
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

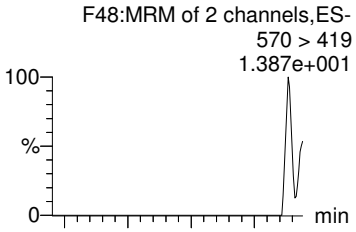
Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

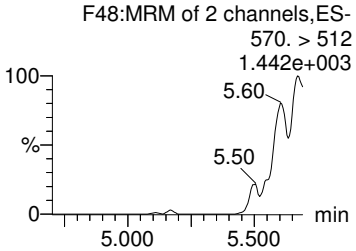
L-MeFOSAA





Br-MeFOSAA





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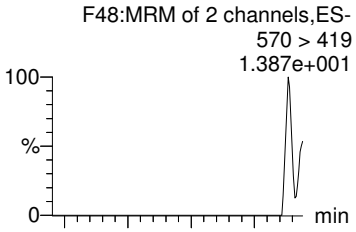
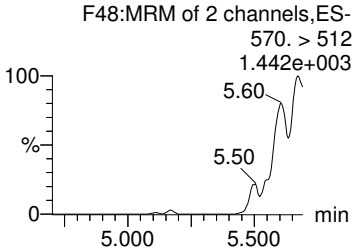
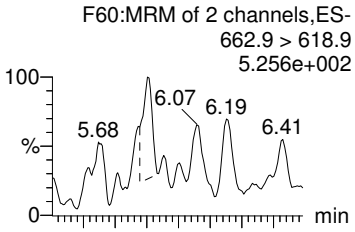
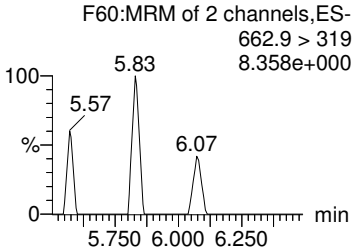


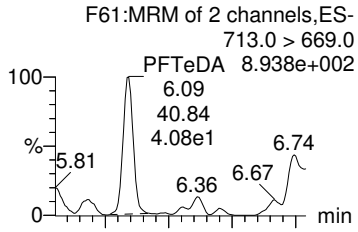


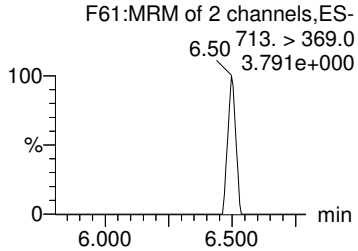
PFTrDA



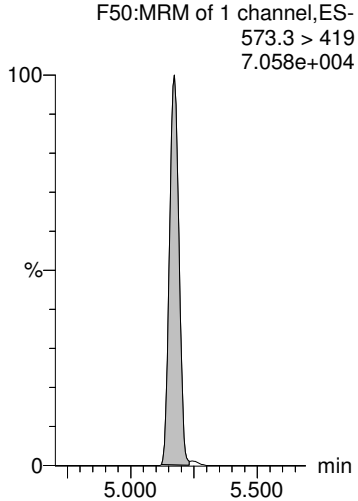


PFTeDA





d3-N-MeFOSAA



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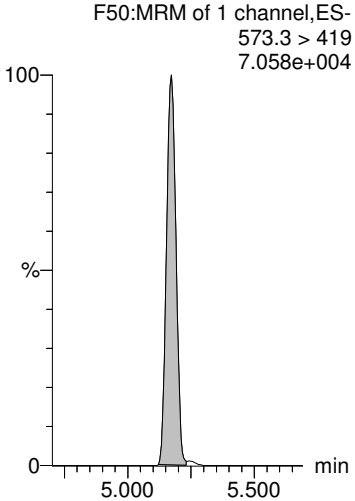

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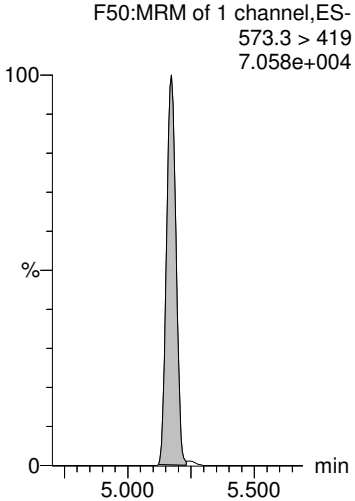
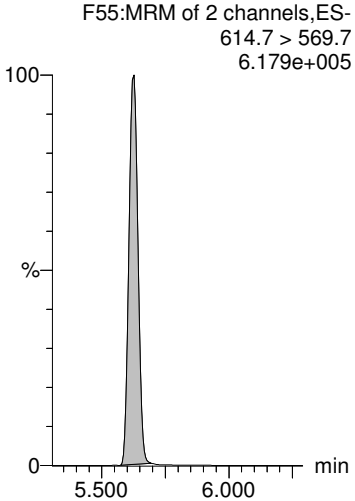
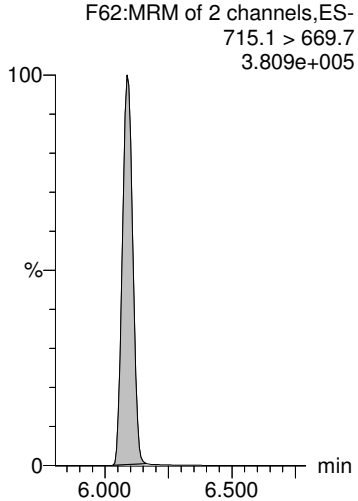


13C2-PFDoA



13C2-PFTeDA



 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

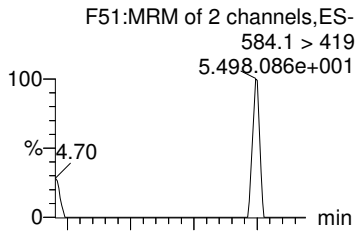
Review: AMR 2/24/2019

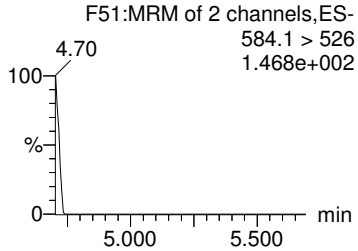
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

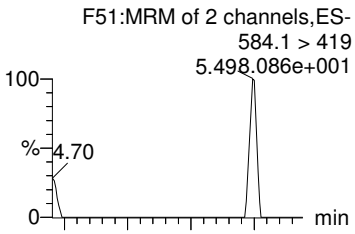
Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

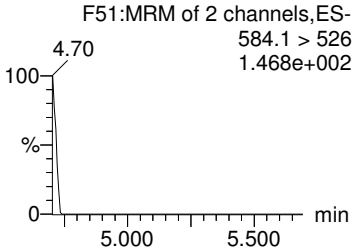
L-EtFOSAA



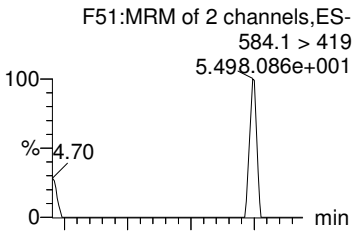


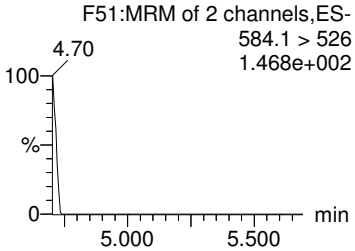
Br-ETFOSAA



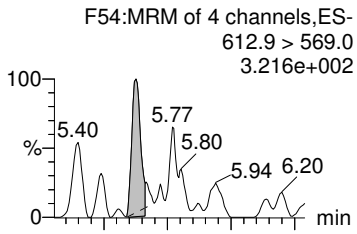


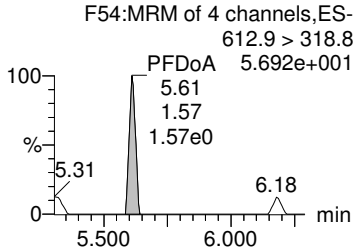
Total N-EtFOSAA



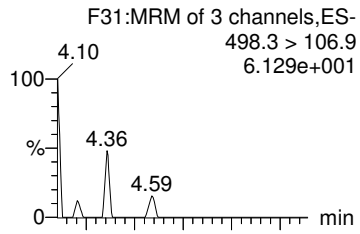


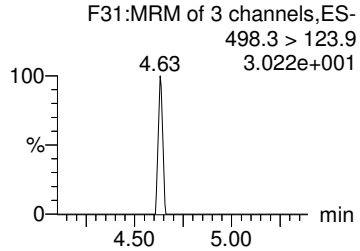
PFDoA



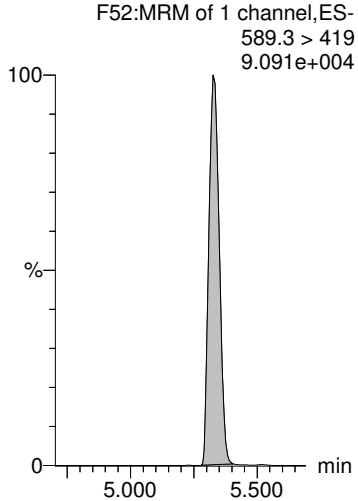


TCDA

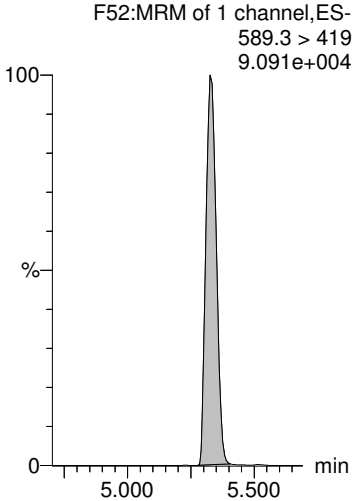




d5-N-EtFOSAA



d5-N-EtFOSAA



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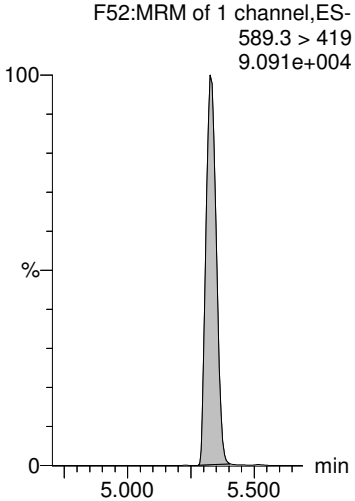
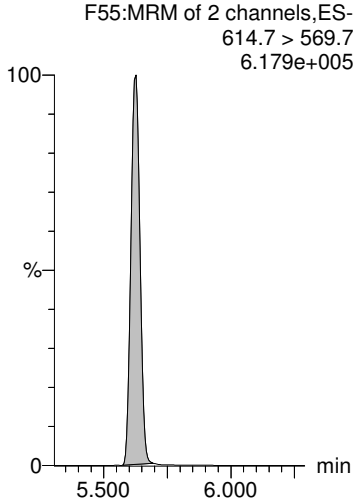
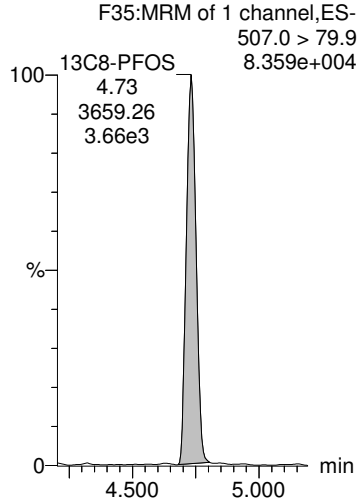


13C2-PFDoA



13C8-PFOS



 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

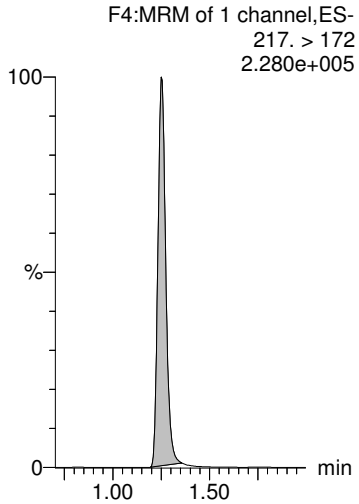
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-21.qld

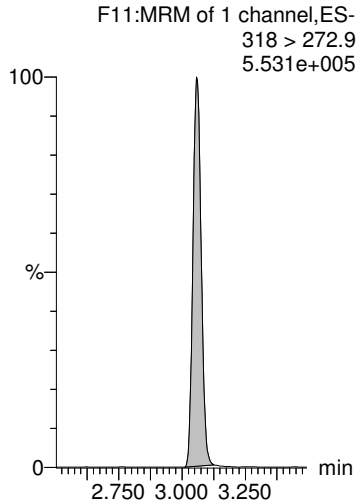
Last Altered: Sunday, February 24, 2019 15:45:52 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:46:12 Pacific Standard Time

Name: 190219M2_21, Date: 19-Feb-2019, Time: 20:12:09, ID: 1900272-05 DUP-01 0.24313, Description: DUP-01

13C4-PFBA



13C5-PFHxA



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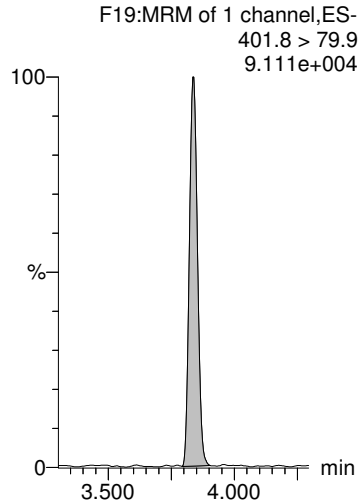
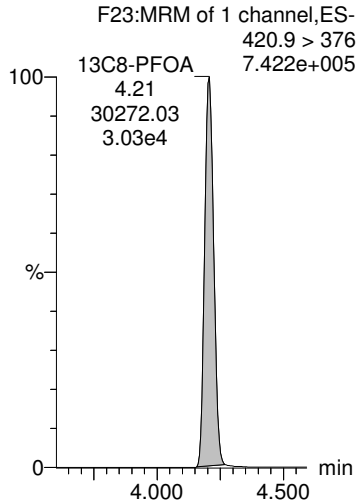


13C8-PFOA



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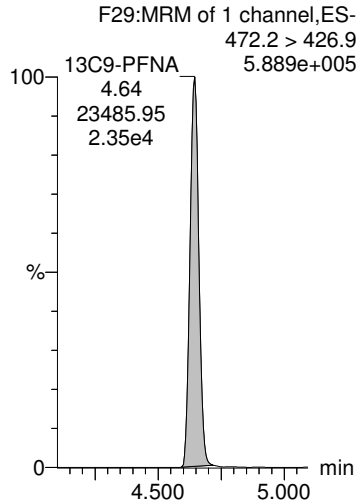

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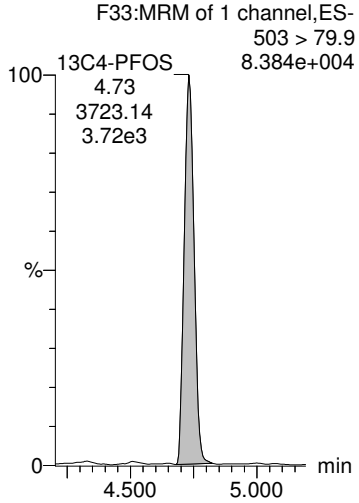

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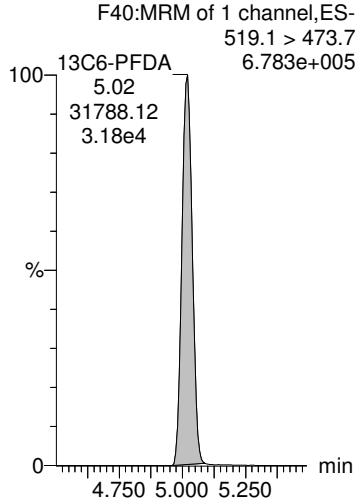
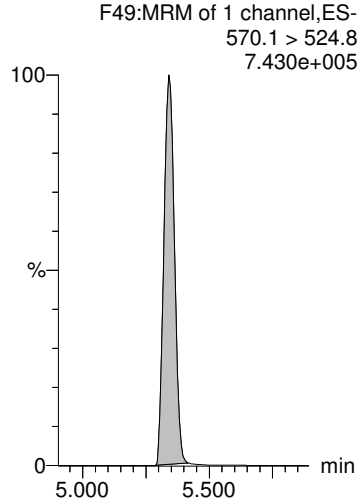


13C7-PFUdA



 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:30:05 Pacific Standard Time

Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		9.72e3	0.247		1.26						
2	2	PFPeA	263.1 > 218.9		1.37e4	0.247		2.26						
3	3	PFBS	299.0 > 79.7		1.70e3	0.247		2.57						
4	4	4:2 FTS	327.2>307.2		1.93e3	0.247		2.98						
5	5	PFHxA	313 > 269		8.61e3	0.247		3.07						
6	36	13C3-PFBA	216.1 > 171.8	9.72e3	1.36e4	0.247	0.735	1.27	1.26	8.95	49.3613	97.4		
7	37	13C3-PFPeA	266. > 221.8	1.37e4	2.39e4	0.247	0.571	2.26	2.26	7.16	50.8033	100.3		
8	38	13C3-PFBS	302. > 98.8	1.70e3	3.16e3	0.247	0.539	2.56	2.57	6.73	50.6008	99.9		
9	39	13C2-4:2 FTS	328.9>81.0	1.93e3	3.16e3	0.247	0.625	2.98	2.98	7.63	49.5241	97.7		
10	40	13C2-PFHxA	315 > 270	8.61e3	2.39e4	0.247	0.962	3.07	3.07	4.50	18.9613	93.6		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.29e4	0.247		3.68						
13	6	PFPeS	349.1>80.1		1.70e3	0.247		3.28						
14	8	L-PFHxS	398.9 > 79.6	1.07e1	1.58e3	0.247		3.84	3.84	0.0848	0.3271		3.49	YES
15	9	Br-PFHxS	398.9 > 79.6		1.58e3	0.247		3.74						
16	68	Total PFHxS	398.9 > 79.6	1.07e1	1.58e3	0.247		3.87		0.0848	0.3271			
17	41	13C4-PFHpA	367.2 > 321.8	1.29e4	2.39e4	0.247	0.562	3.68	3.68	6.76	48.7090	96.1		
18	38	13C3-PFBS	302. > 98.8	1.70e3	3.16e3	0.247	0.539	2.56	2.57	6.73	50.6008	99.9		
19	42	18O2-PFHxS	403.0 > 102.6	1.58e3	3.16e3	0.247	0.502	3.84	3.84	6.26	50.5074	99.7		
20	42	18O2-PFHxS	403.0 > 102.6	1.58e3	3.16e3	0.247	0.502	3.84	3.84	6.26	50.5074	99.7		
21	42	18O2-PFHxS	403.0 > 102.6	1.58e3	3.16e3	0.247	0.502	3.84	3.84	6.26	50.5074	99.7		
22	-1													
23	10	6:2 FTS	427.1 > 407	4.43e0	2.26e3	0.247		4.15	4.14	0.0245	0.2501		3.38	NO
24	13	PFHpS	449 > 80.0		3.69e3	0.247		4.32						
25	11	L-PFOA	412.8 > 368.9		2.33e4	0.247		4.20						
26	12	Br-PFOA	412.8 > 368.9		2.33e4	0.247		4.10						
27	69	Total PFOA	412.8 > 368.9	0.00e0	2.33e4	0.247		4.21		0.000				
28	43	13C2-6:2 FTS	428.9>80.9	2.26e3	3.54e3	0.247	0.673	4.15	4.15	7.99	48.0984	94.9		
29	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
30	44	13C2-PFOA	414.9 > 369.7	2.33e4	2.95e4	0.247	0.819	4.21	4.21	9.88	48.8930	96.5		
31	44	13C2-PFOA	414.9 > 369.7	2.33e4	2.95e4	0.247	0.819	4.21	4.21	9.88	48.8930	96.5		
32	44	13C2-PFOA	414.9 > 369.7	2.33e4	2.95e4	0.247	0.819	4.21	4.21	9.88	48.8930	96.5		
33	-1													
34	14	PFNA	463.0 > 418.8	1.87e1	1.96e4	0.247		4.64	4.64	0.0120	0.1880		7.68	YES
35	15	PFOSA	497.7 > 77.9		1.86e3	0.247		4.71						
36	16	L-PFOS	498.9 > 79.9		3.69e3	0.247		4.72						

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

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Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9		3.69e3	0.247		4.62						
38	70	Total PFOS	498.9 > 79.9	0.00e0	3.69e3	0.247		4.74		0.000				
39	45	13C5-PFNA	468.2 > 422.9	1.96e4	2.30e4	0.247	0.991	4.64	4.64	10.6	43.4894	85.8		
40	46	13C8-PFOSA	506.1 > 77.7	1.86e3	3.32e4	0.247	0.082	4.71	4.71	0.699	34.6811	68.4		
41	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
42	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
43	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
44	-1													
45	18	PFDA	513 > 468.8	3.52e1	1.78e4	0.247		5.02	5.01	0.0247			9.90	YES
46	19	8:2 FTS	527 > 506.9		2.23e3	0.247		4.99						
47	20	PFNS	549.1 > 80.1		3.69e3	0.247		5.08						
48	26	PFDS	598.8 > 79.9		3.69e3	0.247		5.39						
49	25	PFUdA	563.0 > 518.9		2.31e4	0.247		5.34						
50	48	13C2-PFDA	515.1 > 469.9	1.78e4	3.00e4	0.247	0.768	5.02	5.01	7.42	39.1412	77.2		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.23e3	3.54e3	0.247	0.720	4.99	4.99	7.87	44.3194	87.5		
52	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
53	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
54	51	13C2-PFUdA	565 > 519.8	2.31e4	3.32e4	0.247	0.941	5.34	5.34	8.70	37.5100	74.0		
55	-1													
56	21	L-MeFOSAA	570 > 419		2.57e3	0.247		5.17						
57	22	Br-MeFOSAA	570. > 419		2.57e3	0.247		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	2.57e3	0.247		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.38e4	0.247		5.87						
60	30	PFTeDA	713.0 > 669.0		1.87e4	0.247		6.09						
61	50	d3-N-MeFOSAA	573.3 > 419	2.57e3	3.32e4	0.247	0.110	5.17	5.17	0.968	35.6117	70.3		
62	50	d3-N-MeFOSAA	573.3 > 419	2.57e3	3.32e4	0.247	0.110	5.17	5.17	0.968	35.6117	70.3		
63	50	d3-N-MeFOSAA	573.3 > 419	2.57e3	3.32e4	0.247	0.110	5.17	5.17	0.968	35.6117	70.3		
64	53	13C2-PFDoA	614.7 > 569.7	2.38e4	3.00e4	0.247	1.175	5.62	5.62	9.92	34.2301	67.6		
65	55	13C2-PFTeDA	715.1 > 669.7	1.87e4	3.32e4	0.247	0.696	6.09	6.09	7.03	40.9548	80.8		
66	-1													
67	23	L-EtFOSAA	584.1 > 419	3.25e0	3.81e3	0.247		5.33	5.34	0.0107	0.2501		0.182	YES
68	24	Br-ETFOSAA	584.1 > 419		3.81e3	0.247		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	3.25e0	3.81e3	0.247		5.49		0.0107	0.2501			
70	27	PFDoA	612.9 > 569.0	2.03e1	2.38e4	0.247		5.63	5.63	0.0107	0.2027		24.8	YES
71	73	TCDA	498.3>106.9			0.247		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	3.81e3	3.32e4	0.247	0.145	5.33	5.33	1.43	40.0897	79.1		

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

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Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	3.81e3	3.32e4	0.247	0.145	5.33	5.33	1.43	40.0897	79.1		
74	52	d5-N-EtFOSAA	589.3 > 419	3.81e3	3.32e4	0.247	0.145	5.33	5.33	1.43	40.0897	79.1		
75	53	13C2-PFDoA	614.7 > 569.7	2.38e4	3.00e4	0.247	1.175	5.62	5.62	9.92	34.2301	67.6		
76	47	13C8-PFOS	507.0 > 79.9	3.69e3	3.54e3	0.247	1.068	4.73	4.73	13.1	49.5651	97.8		
77	-1													
78	60	13C4-PFBA	217. > 172	1.36e4	1.36e4	0.247	1.000	1.26	1.26	12.5	50.6709	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.39e4	2.39e4	0.247	1.000	3.07	3.07	12.5	50.6709	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.16e3	3.16e3	0.247	1.000	3.84	3.84	12.5	50.6709	100.0		
81	63	13C8-PFOA	420.9 > 376	2.95e4	2.95e4	0.247	1.000	4.21	4.21	12.5	50.6709	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.30e4	2.30e4	0.247	1.000	4.64	4.64	12.5	50.6709	100.0		
83	65	13C4-PFOS	503 > 79.9	3.54e3	3.54e3	0.247	1.000	4.73	4.73	12.5	50.6709	100.0		
84	66	13C6-PFDA	519.1 > 473.7	3.00e4	3.00e4	0.247	1.000	5.01	5.01	12.5	50.6709	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.32e4	3.32e4	0.247	1.000	5.34	5.34	12.5	50.6709	100.0		

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

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Calibration: Z:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

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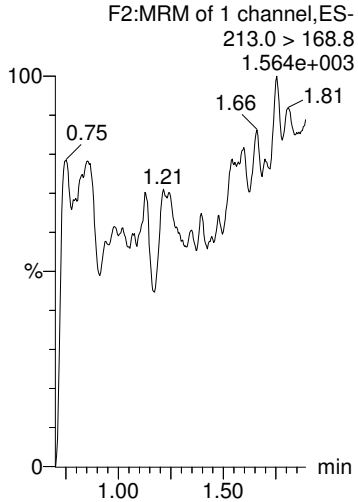

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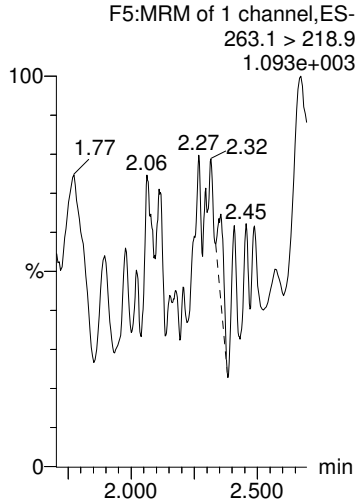

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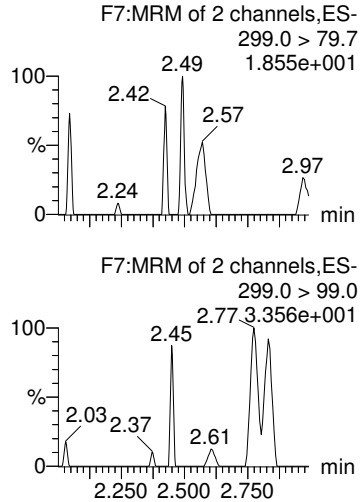
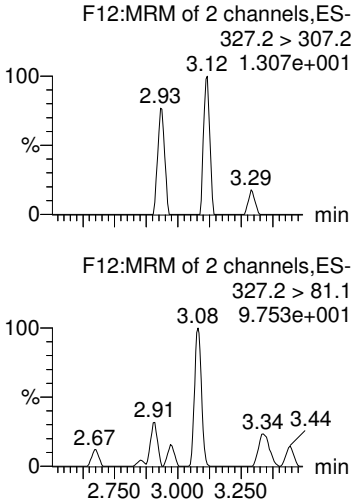


4:2 FTS



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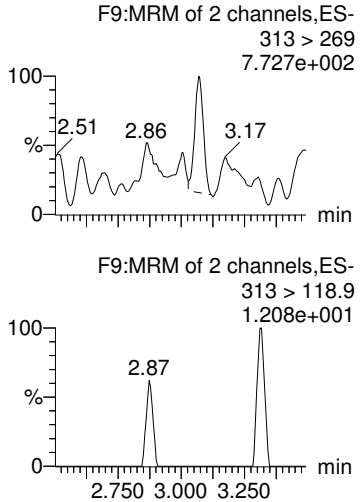

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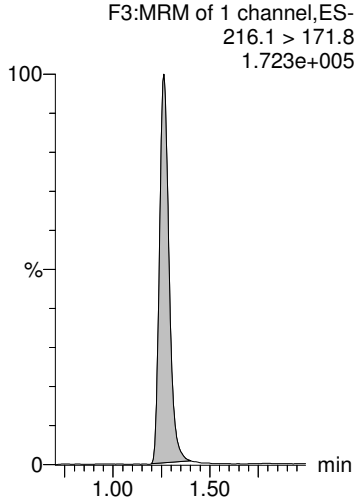

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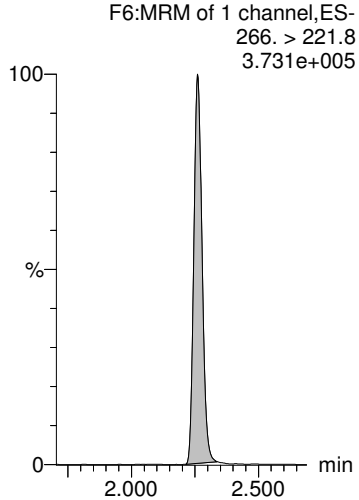

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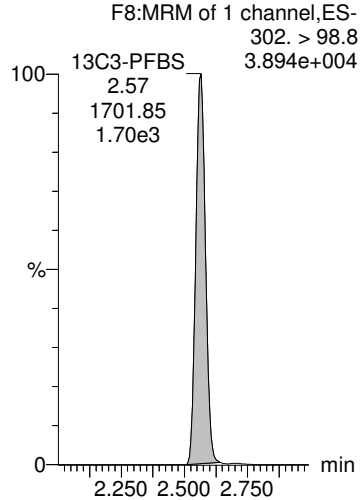

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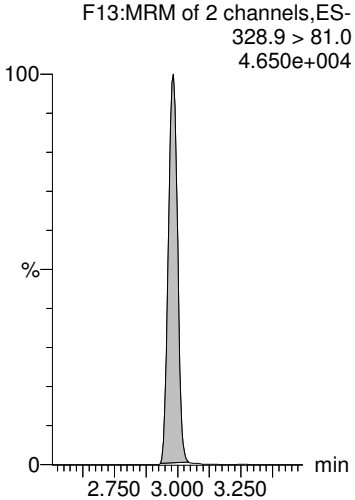

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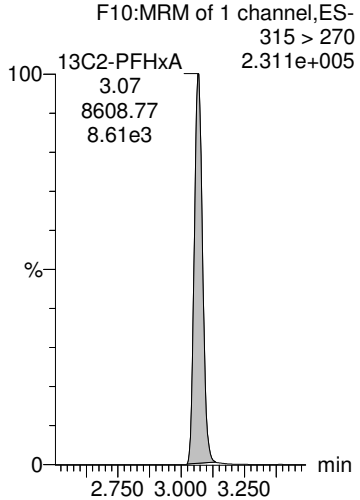

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

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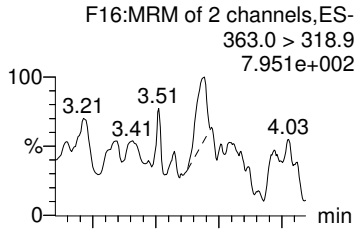
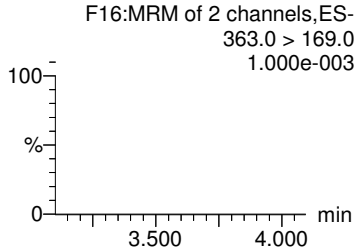
Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

PFHpA





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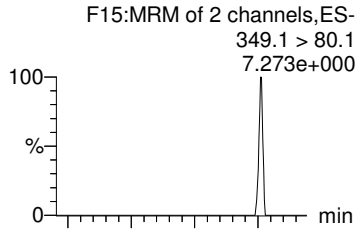
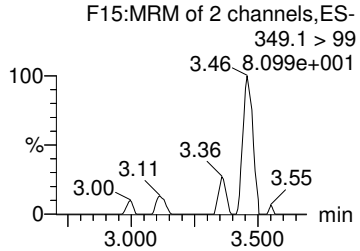
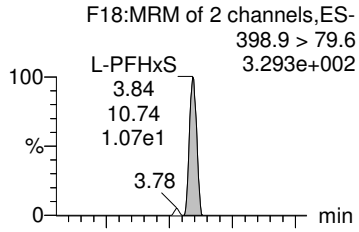
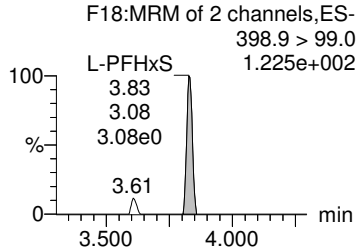


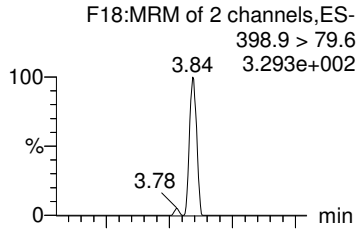


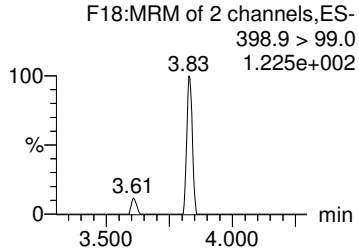
L-PFHxS





Br-PFHxS





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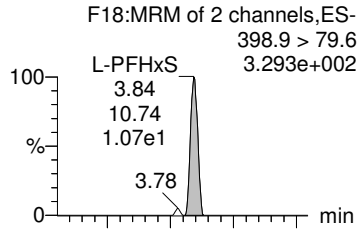

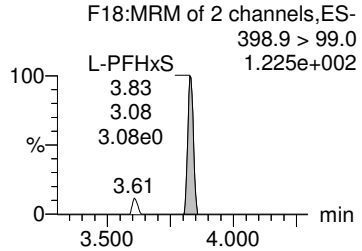

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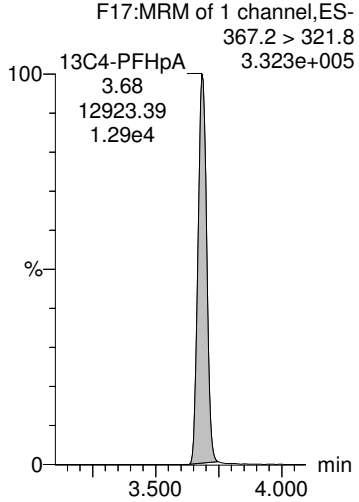
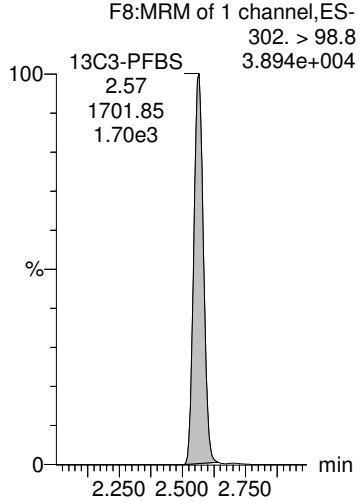


13C3-PFBS



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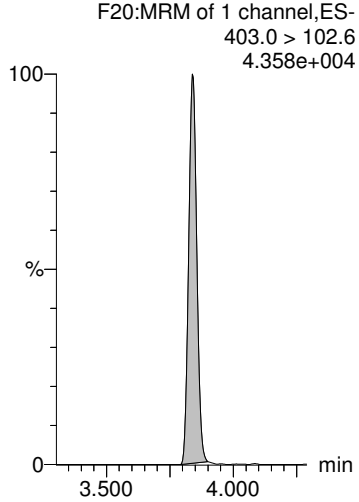

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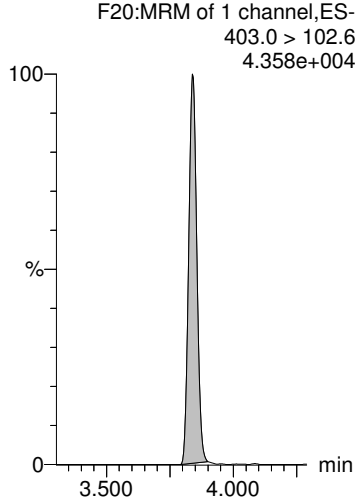

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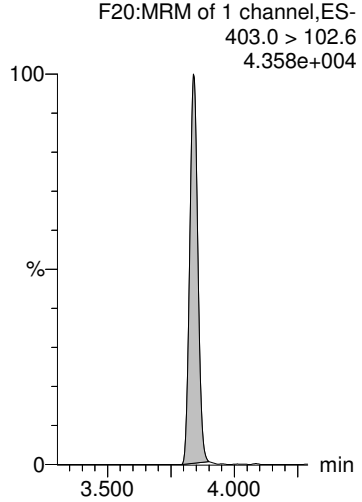

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Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
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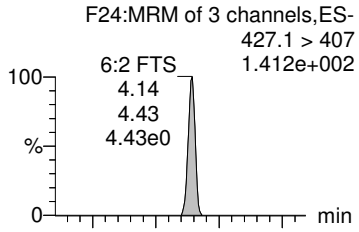
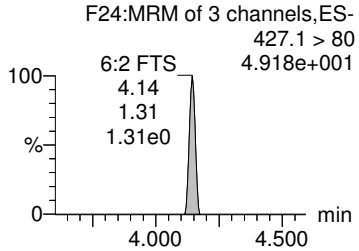
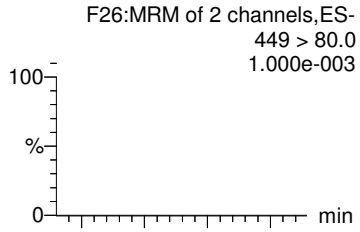
Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

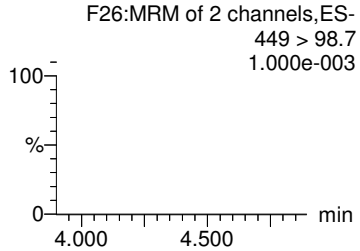
6:2 FTS





PFHpS





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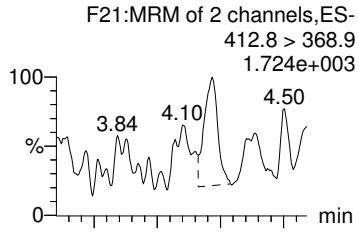
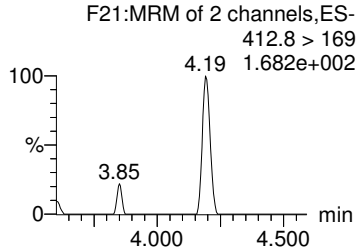
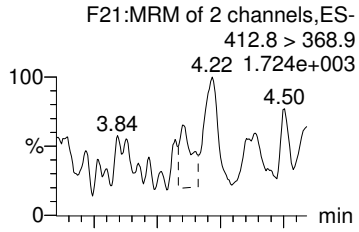
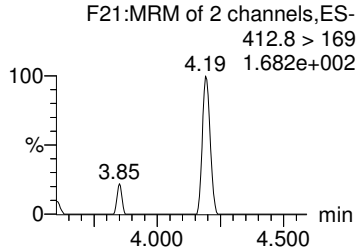




Br-PFOA





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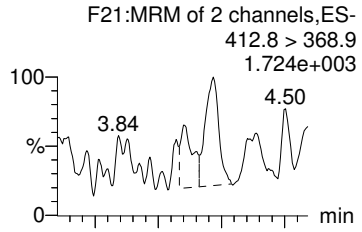
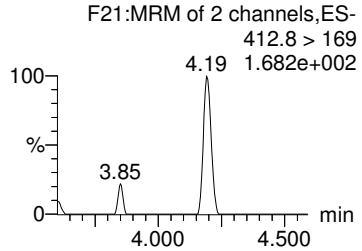
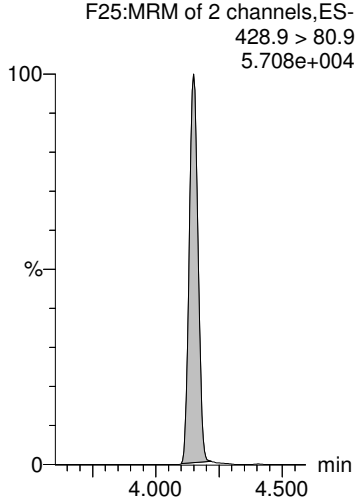
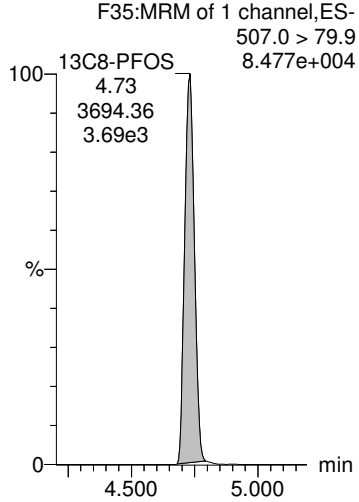




13C2-6:2 FTS



13C8-PFOS



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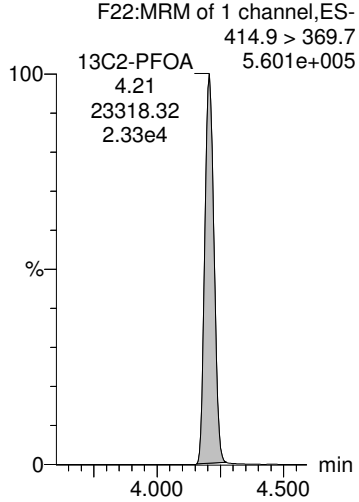

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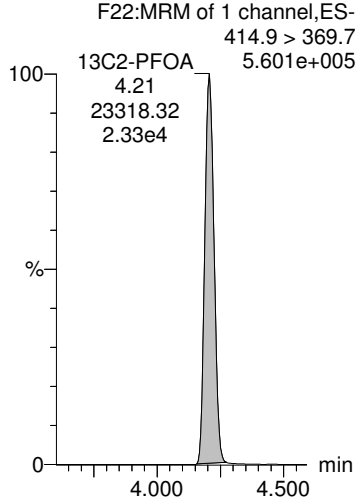

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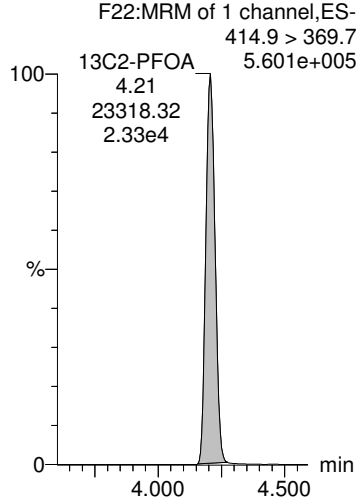

 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:30:05 Pacific Standard Time

Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

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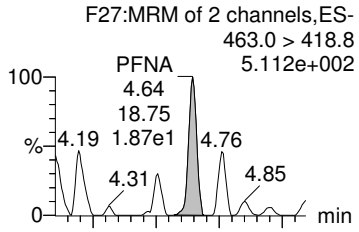

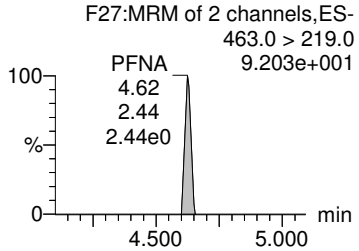

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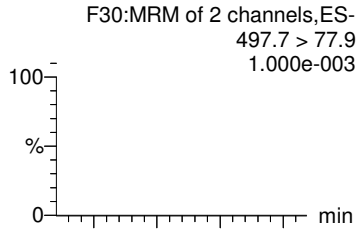

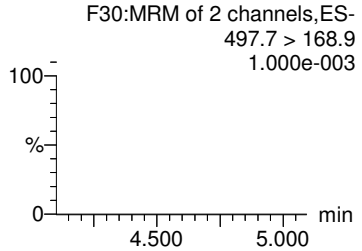

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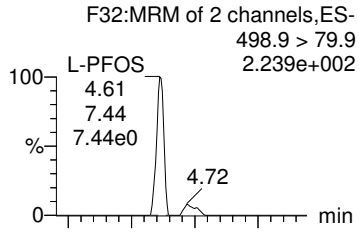

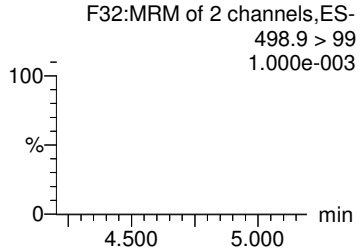

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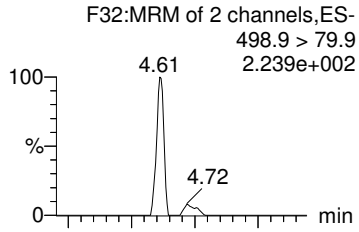

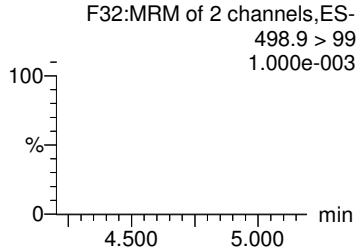

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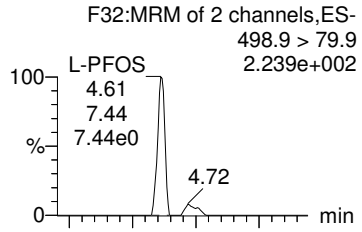

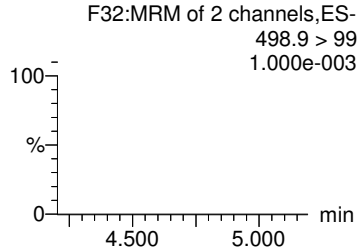

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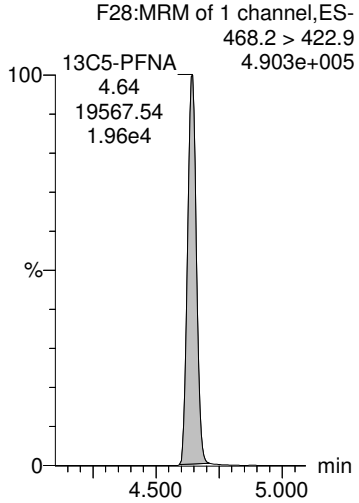

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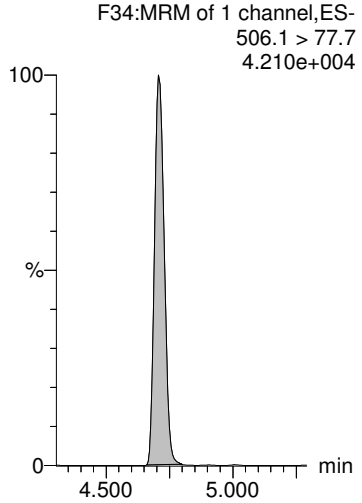

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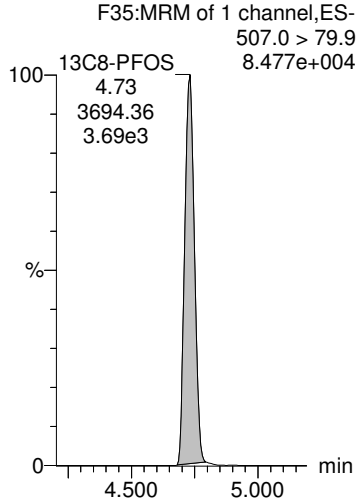

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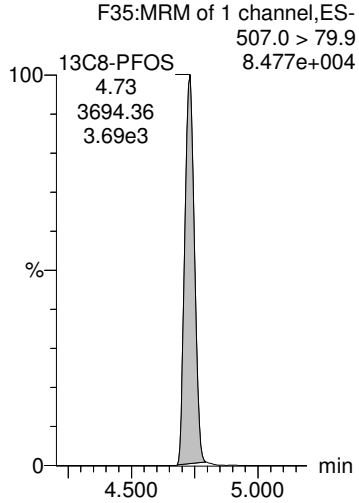

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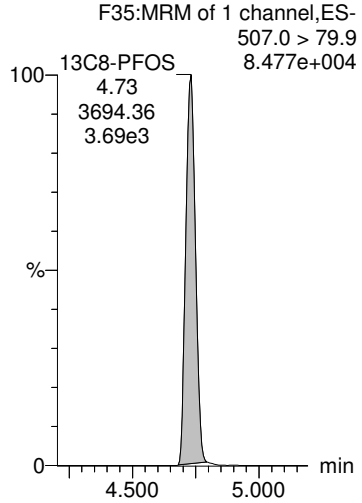


 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

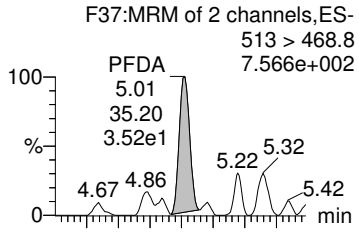
Review: AMR 2/24/2019

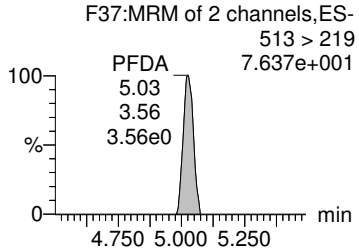
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:30:05 Pacific Standard Time

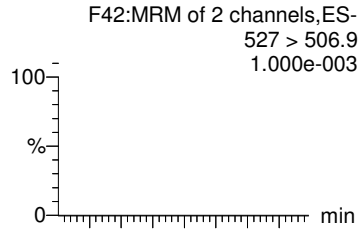
Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

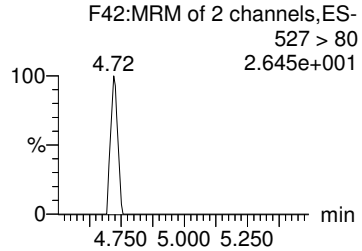
PFDA





8:2 FTS





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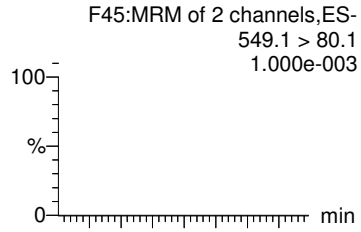

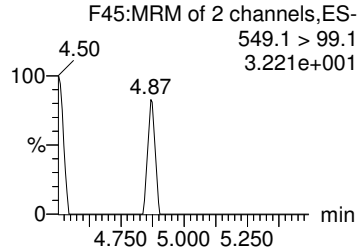

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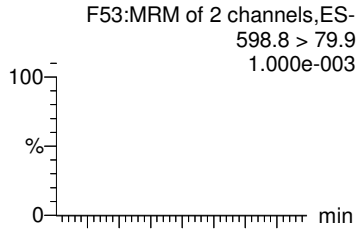

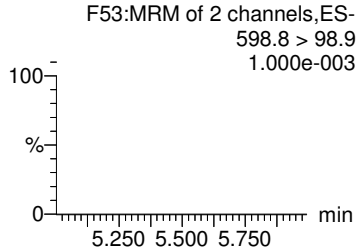

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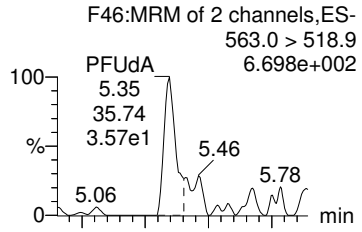

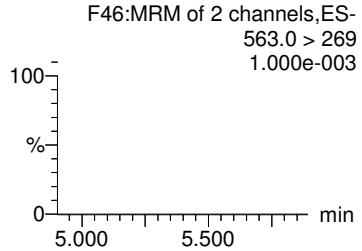

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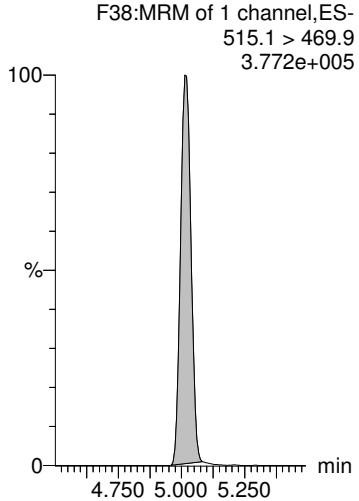
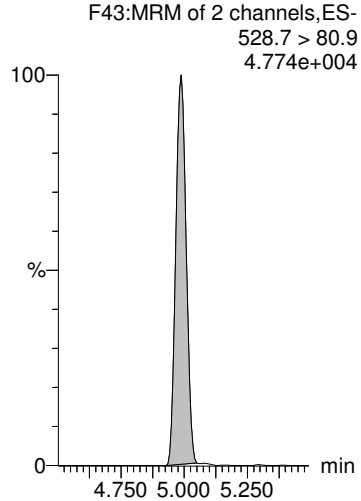


13C2-8:2 FTS



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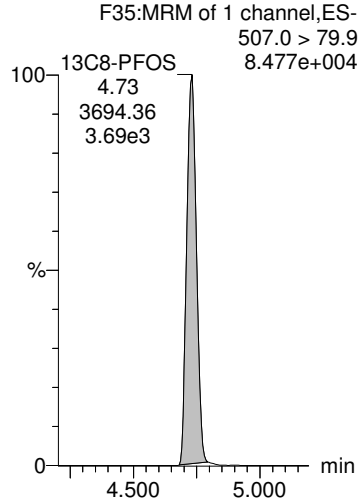

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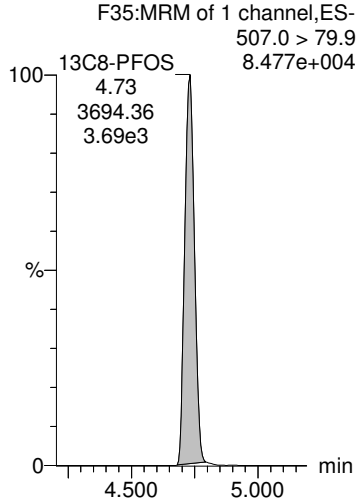

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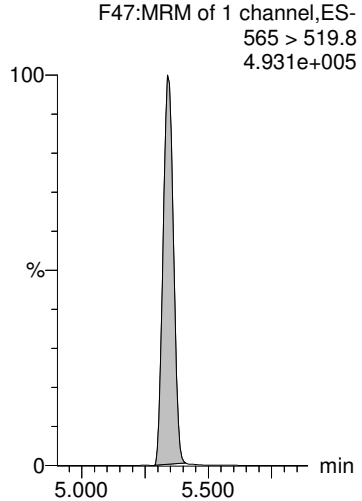

 GM 2/24/2019

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
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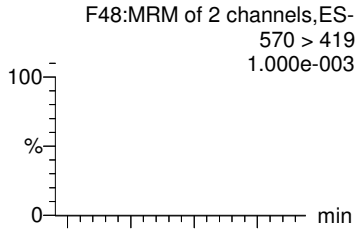
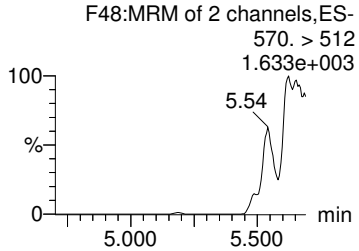
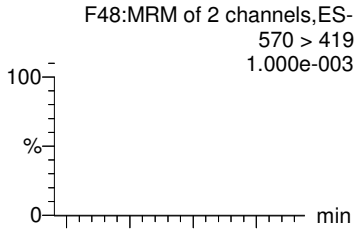
Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

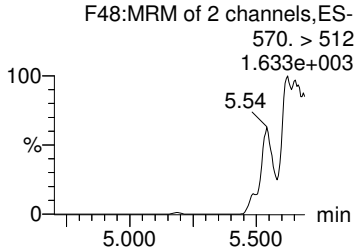
L-MeFOSAA





Br-MeFOSAA





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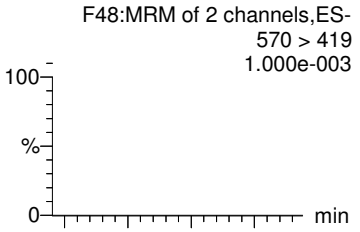

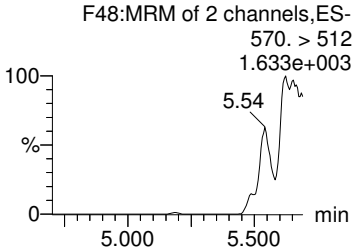

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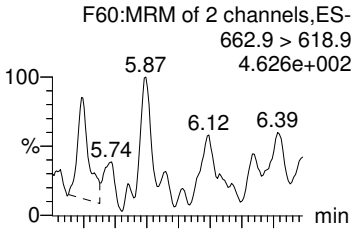

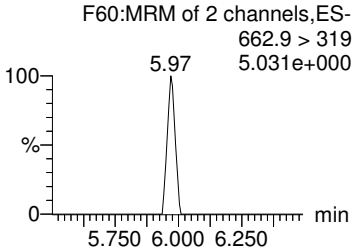

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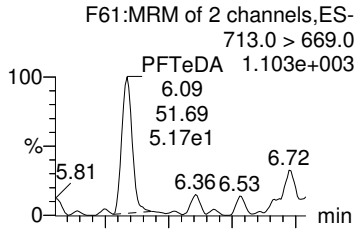

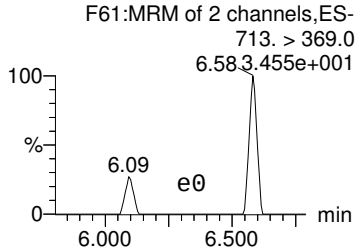

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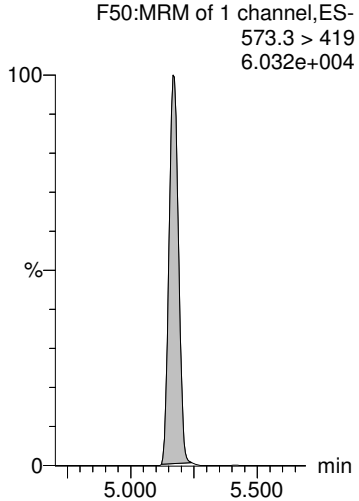

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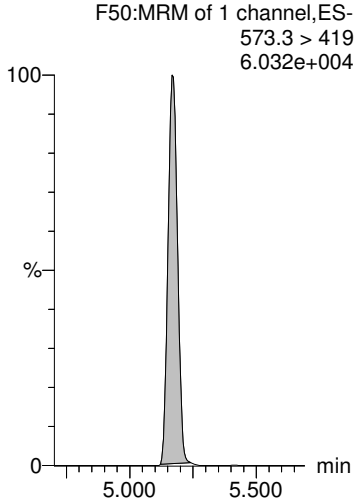
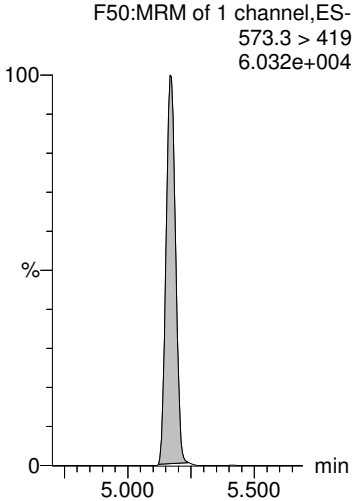
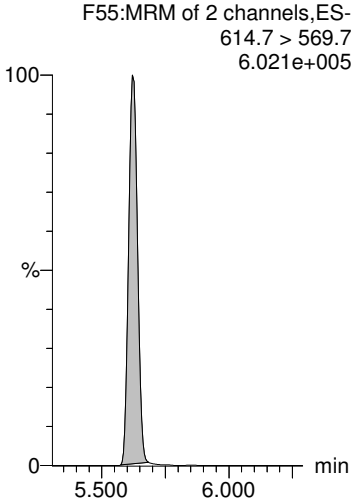


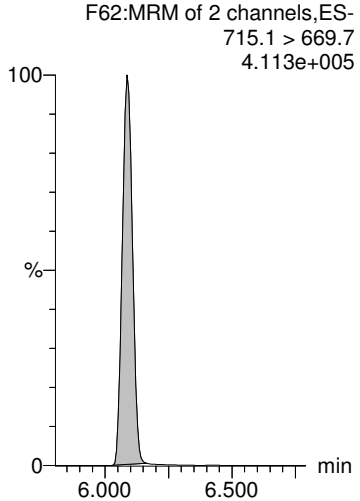
d3-N-MeFOSAA



13C2-PFDoA



13C2-PFTeDA



 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

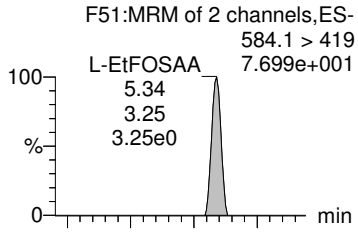
Review: AMR 2/24/2019

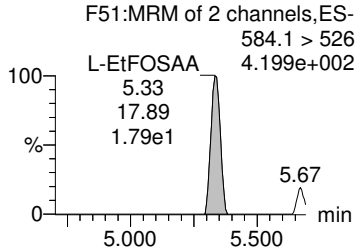
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:30:05 Pacific Standard Time

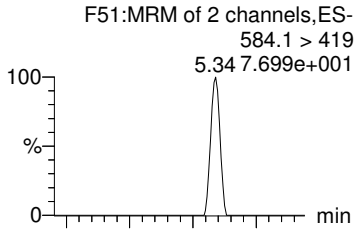
Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

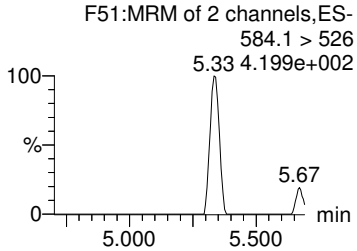
L-EtFOSAA



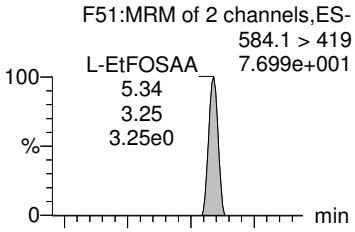


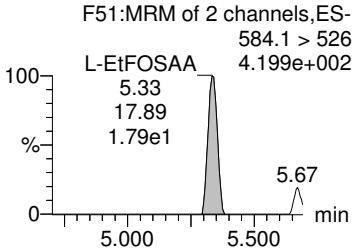
Br-ETFOSAA



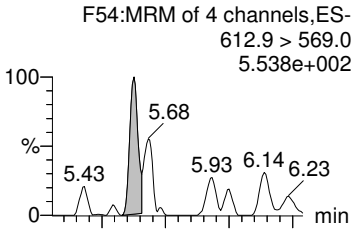


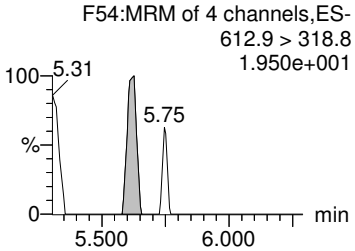
Total N-EtFOSAA



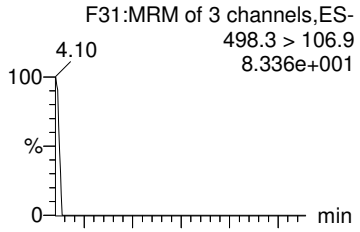


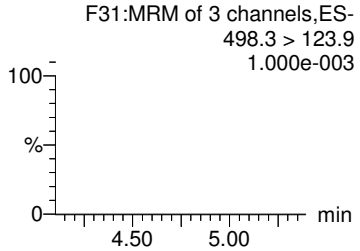
PFDoA



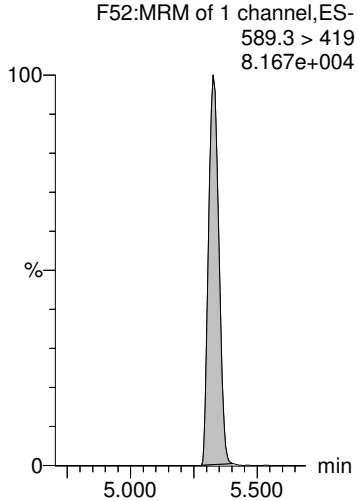


TCDA





d5-N-EtFOSAA



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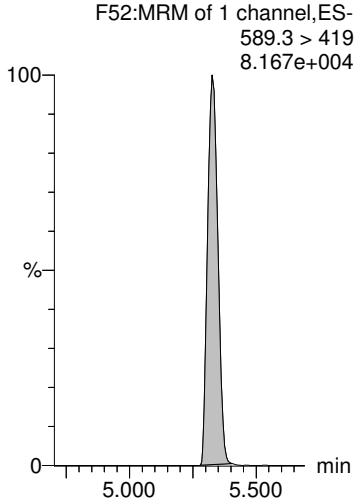
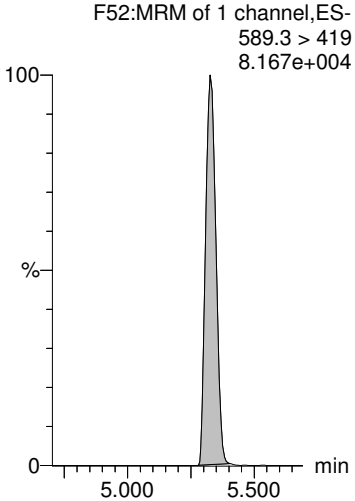
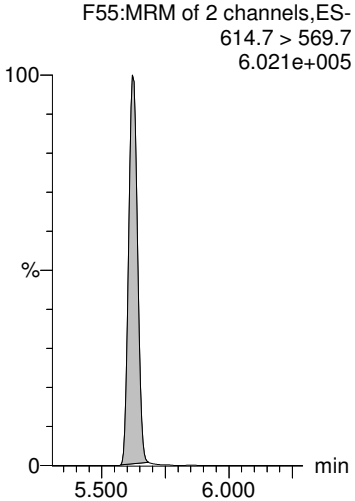


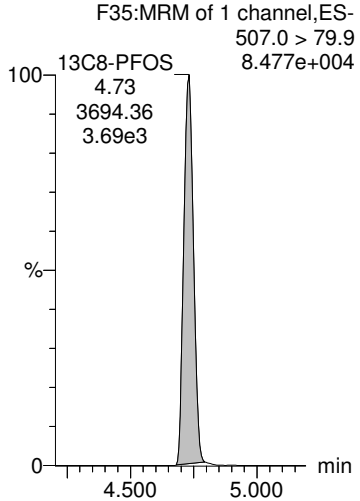
d5-N-EtFOSAA



13C2-PFDoA



13C8-PFOS



 GM 2/24/2019

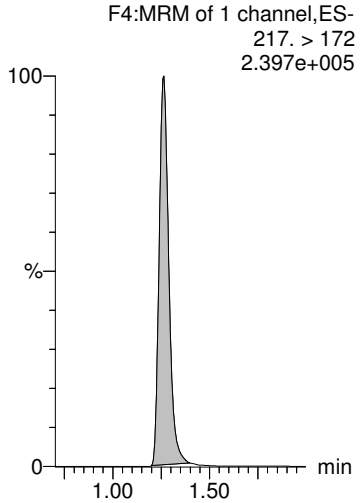
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-22.qld

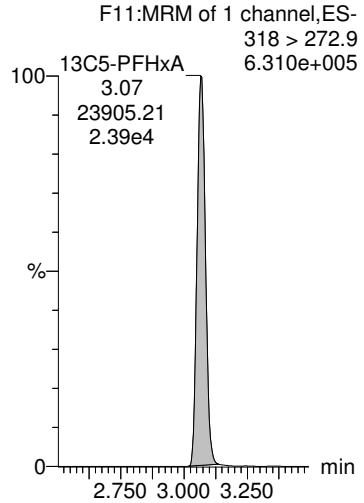
Last Altered: Sunday, February 24, 2019 15:29:24 Pacific Standard Time
Printed: Sunday, February 24, 2019 15:30:05 Pacific Standard Time

Name: 190219M2_22, Date: 19-Feb-2019, Time: 20:22:47, ID: 1900272-06 EB-01 0.24669, Description: EB-01

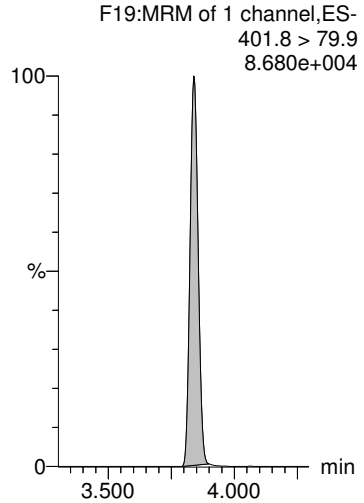
13C4-PFBA



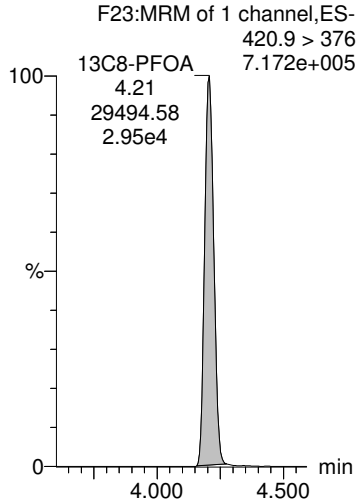
13C5-PFHxA



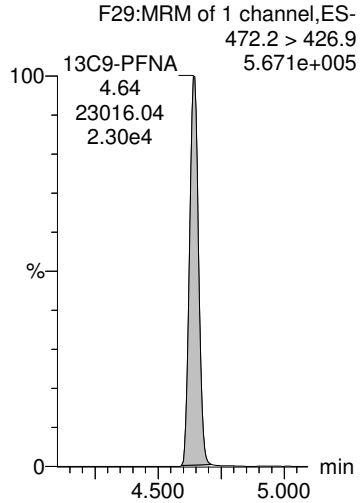
13C3-PFHxS



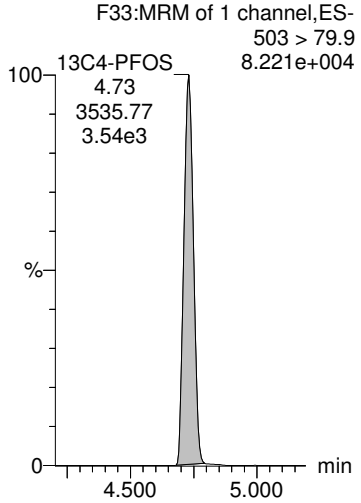
13C8-PFOA



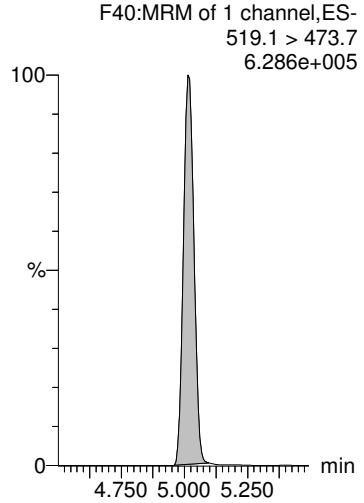
13C9-PFNA



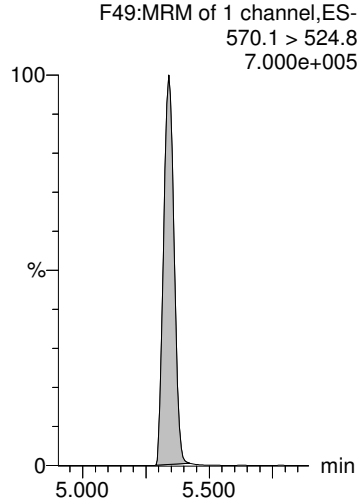
13C4-PFOS



13C6-PFDA



13C7-PFUdA



 GM 2/24/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		8.91e3	0.249		1.26						
2	2	PFPeA	263.1 > 218.9		1.25e4	0.249		2.26						
3	3	PFBS	299.0 > 79.7	1.68e0	1.72e3	0.249		2.56	2.58	0.0122			2.01	NO
4	4	4:2 FTS	327.2>307.2		1.87e3	0.249		2.98						
5	5	PFHxA	313 > 269	2.48e1	8.28e3	0.249		3.07	3.08	0.0150	0.0915		9.37	NO
6	36	13C3-PFBA	216.1 > 171.8	8.91e3	1.26e4	0.249	0.735	1.27	1.26	8.86	48.4909	96.4		
7	37	13C3-PFPeA	266. > 221.8	1.25e4	2.32e4	0.249	0.571	2.26	2.26	6.71	47.2741	94.0		
8	38	13C3-PFBS	302. > 98.8	1.72e3	3.10e3	0.249	0.539	2.56	2.56	6.92	51.6172	102.7		
9	39	13C2-4:2 FTS	328.9>81.0	1.87e3	3.10e3	0.249	0.625	2.98	2.98	7.54	48.5570	96.6		
10	40	13C2-PFHxA	315 > 270	8.28e3	2.32e4	0.249	0.962	3.07	3.07	4.46	18.6471	92.7		
11	-1													
12	7	PFHpA	363.0 > 318.9		1.22e4	0.249		3.69						
13	6	PFPeS	349.1>80.1		1.72e3	0.249		3.27						
14	8	L-PFHxS	398.9 > 79.6	1.22e1	1.47e3	0.249		3.84	3.85	0.104	0.3666		19.1	YES
15	9	Br-PFHxS	398.9 > 79.6		1.47e3	0.249		3.74						
16	68	Total PFHxS	398.9 > 79.6	1.22e1	1.47e3	0.249		3.87		0.104	0.3666			
17	41	13C4-PFHpA	367.2 > 321.8	1.22e4	2.32e4	0.249	0.562	3.68	3.69	6.58	47.0983	93.7		
18	38	13C3-PFBS	302. > 98.8	1.72e3	3.10e3	0.249	0.539	2.56	2.56	6.92	51.6172	102.7		
19	42	18O2-PFHxS	403.0 > 102.6	1.47e3	3.10e3	0.249	0.502	3.84	3.84	5.91	47.2937	94.1		
20	42	18O2-PFHxS	403.0 > 102.6	1.47e3	3.10e3	0.249	0.502	3.84	3.84	5.91	47.2937	94.1		
21	42	18O2-PFHxS	403.0 > 102.6	1.47e3	3.10e3	0.249	0.502	3.84	3.84	5.91	47.2937	94.1		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.21e3	0.249		4.15						
24	13	PFHpS	449 > 80.0		3.42e3	0.249		4.32						
25	11	L-PFOA	412.8 > 368.9		2.14e4	0.249		4.20						
26	12	Br-PFOA	412.8 > 368.9		2.14e4	0.249		4.10						
27	69	Total PFOA	412.8 > 368.9	0.00e0	2.14e4	0.249		4.21		0.000				
28	43	13C2-6:2 FTS	428.9>80.9	2.21e3	3.46e3	0.249	0.673	4.15	4.15	7.98	47.7062	94.9		
29	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
30	44	13C2-PFOA	414.9 > 369.7	2.14e4	2.85e4	0.249	0.819	4.21	4.21	9.40	46.1455	91.8		
31	44	13C2-PFOA	414.9 > 369.7	2.14e4	2.85e4	0.249	0.819	4.21	4.21	9.40	46.1455	91.8		
32	44	13C2-PFOA	414.9 > 369.7	2.14e4	2.85e4	0.249	0.819	4.21	4.21	9.40	46.1455	91.8		
33	-1													
34	14	PFNA	463.0 > 418.8	1.74e1	1.78e4	0.249		4.64	4.64	0.0122	0.1871		24.8	YES
35	15	PFOSA	497.7 > 77.9		1.43e3	0.249		4.71						
36	16	L-PFOS	498.9 > 79.9		3.42e3	0.249		4.72						

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9		3.42e3	0.249		4.62						
38	70	Total PFOS	498.9 > 79.9	0.00e0	3.42e3	0.249		4.74		0.000				
39	45	13C5-PFNA	468.2 > 422.9	1.78e4	2.15e4	0.249	0.991	4.64	4.64	10.4	42.1590	83.8		
40	46	13C8-PFOSA	506.1 > 77.7	1.43e3	3.06e4	0.249	0.082	4.71	4.71	0.583	28.7315	57.1		
41	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
42	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
43	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
44	-1													
45	18	PFDA	513 > 468.8	4.93e1	1.70e4	0.249		5.02	5.02	0.0362	0.0085		33.3	YES
46	19	8:2 FTS	527 > 506.9		2.16e3	0.249		4.99						
47	20	PFNS	549.1 > 80.1		3.42e3	0.249		5.08						
48	26	PFDS	598.8 > 79.9		3.42e3	0.249		5.39						
49	25	PFUdA	563.0 > 518.9	8.63e1	2.25e4	0.249		5.34	5.35	0.0479	0.1659		26.5	YES
50	48	13C2-PFDA	515.1 > 469.9	1.70e4	2.90e4	0.249	0.768	5.02	5.02	7.34	38.4400	76.4		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.16e3	3.46e3	0.249	0.720	4.99	4.99	7.80	43.5842	86.7		
52	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
53	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
54	51	13C2-PFUdA	565 > 519.8	2.25e4	3.06e4	0.249	0.941	5.34	5.34	9.19	39.2948	78.1		
55	-1													
56	21	L-MeFOSAA	570 > 419		2.64e3	0.249		5.17						
57	22	Br-MeFOSAA	570. > 419		2.64e3	0.249		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	2.64e3	0.249		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.49e4	0.249		5.87						
60	30	PFTeDA	713.0 > 669.0		1.74e4	0.249		6.09						
61	50	d3-N-MeFOSAA	573.3 > 419	2.64e3	3.06e4	0.249	0.110	5.17	5.17	1.08	39.3474	78.3		
62	50	d3-N-MeFOSAA	573.3 > 419	2.64e3	3.06e4	0.249	0.110	5.17	5.17	1.08	39.3474	78.3		
63	50	d3-N-MeFOSAA	573.3 > 419	2.64e3	3.06e4	0.249	0.110	5.17	5.17	1.08	39.3474	78.3		
64	53	13C2-PFDoA	614.7 > 569.7	2.49e4	2.90e4	0.249	1.175	5.62	5.63	10.7	36.7248	73.0		
65	55	13C2-PFTeDA	715.1 > 669.7	1.74e4	3.06e4	0.249	0.696	6.09	6.09	7.11	41.0919	81.7		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		3.53e3	0.249		5.33						
68	24	Br-ETFOSAA	584.1 > 419		3.53e3	0.249		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	3.53e3	0.249		5.49		0.000				
70	27	PFDoA	612.9 > 569.0		2.49e4	0.249		5.63						
71	73	TCDA	498.3>106.9			0.249		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	3.53e3	3.06e4	0.249	0.145	5.33	5.33	1.44	40.0326	79.6		

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	3.53e3	3.06e4	0.249	0.145	5.33	5.33	1.44	40.0326	79.6		
74	52	d5-N-EtFOSAA	589.3 > 419	3.53e3	3.06e4	0.249	0.145	5.33	5.33	1.44	40.0326	79.6		
75	53	13C2-PFDoA	614.7 > 569.7	2.49e4	2.90e4	0.249	1.175	5.62	5.63	10.7	36.7248	73.0		
76	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.46e3	0.249	1.068	4.73	4.73	12.3	46.4817	92.4		
77	-1													
78	60	13C4-PFBA	217. > 172	1.26e4	1.26e4	0.249	1.000	1.26	1.26	12.5	50.2816	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.32e4	2.32e4	0.249	1.000	3.07	3.07	12.5	50.2816	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.10e3	3.10e3	0.249	1.000	3.84	3.84	12.5	50.2816	100.0		
81	63	13C8-PFOA	420.9 > 376	2.85e4	2.85e4	0.249	1.000	4.21	4.21	12.5	50.2816	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.15e4	2.15e4	0.249	1.000	4.64	4.64	12.5	50.2816	100.0		
83	65	13C4-PFOS	503 > 79.9	3.46e3	3.46e3	0.249	1.000	4.73	4.73	12.5	50.2816	100.0		
84	66	13C6-PFDA	519.1 > 473.7	2.90e4	2.90e4	0.249	1.000	5.01	5.02	12.5	50.2816	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.06e4	3.06e4	0.249	1.000	5.34	5.34	12.5	50.2816	100.0		

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

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Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

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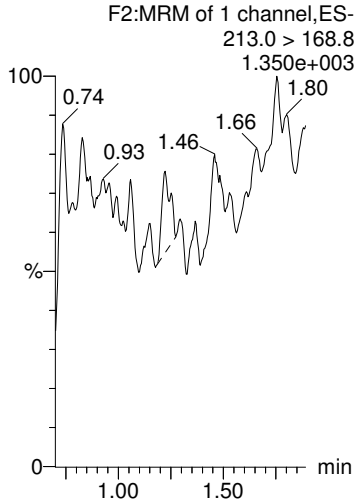
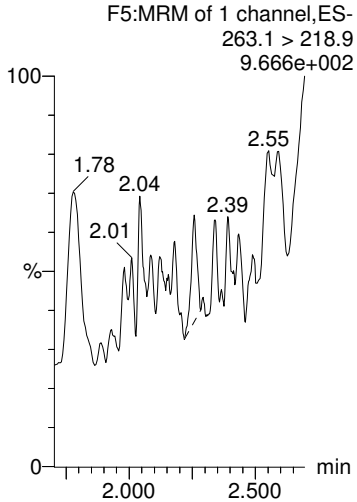


PFPeA



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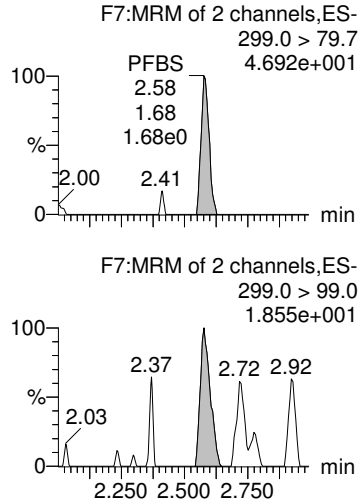

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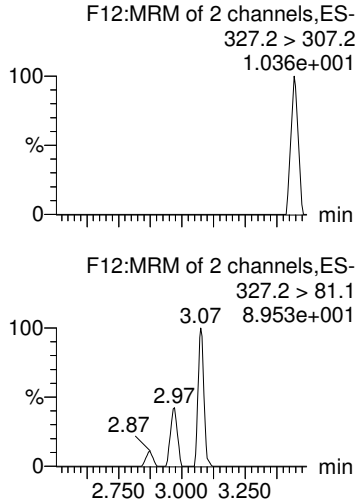

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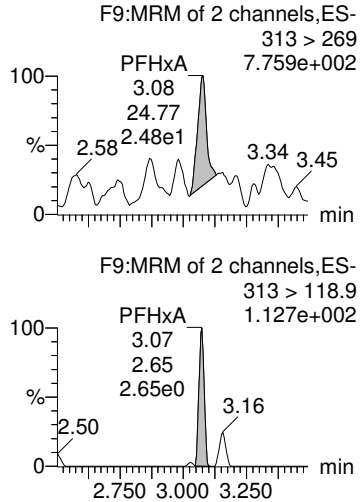

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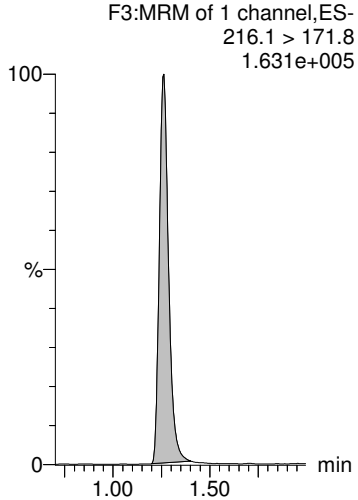

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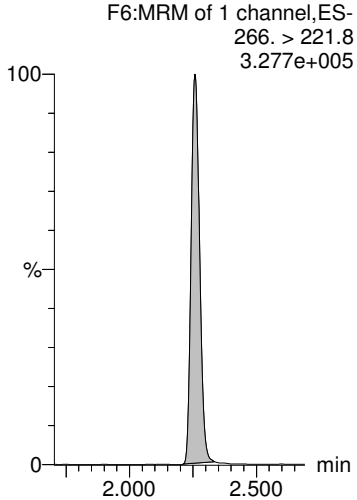

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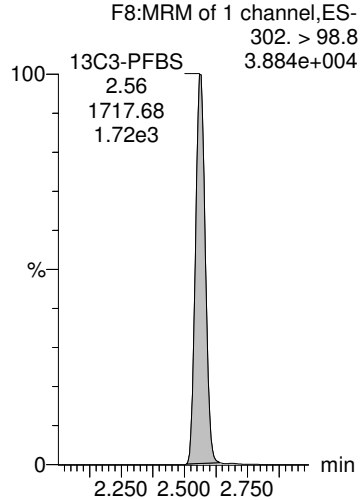

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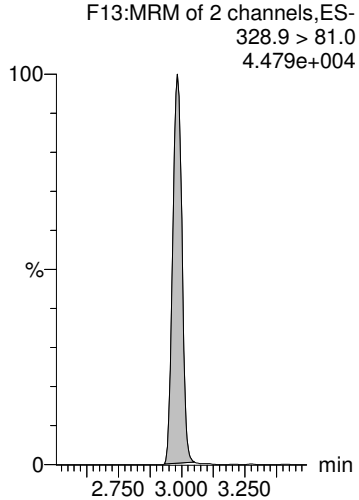

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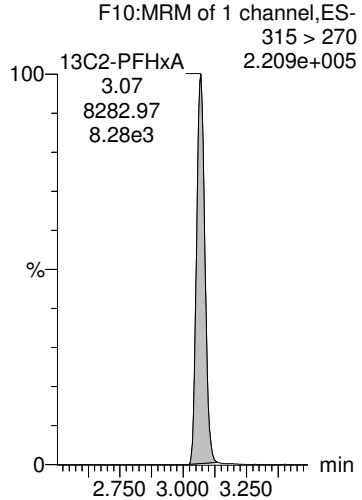

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

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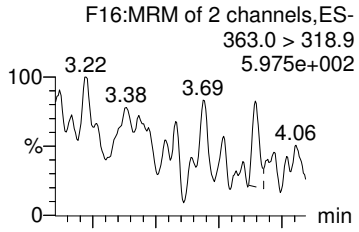

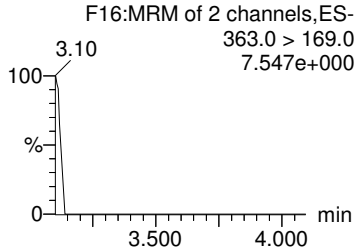

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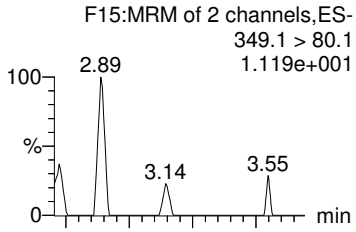

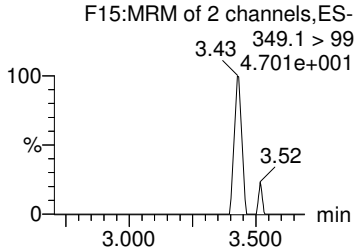

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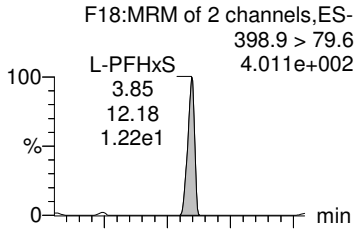
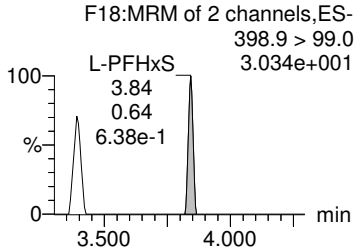
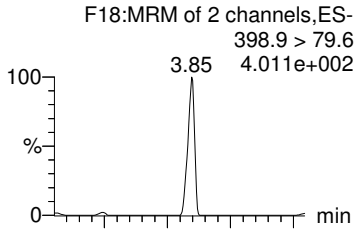
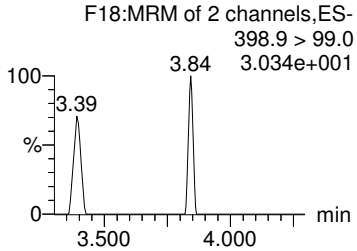




Br-PFHxS





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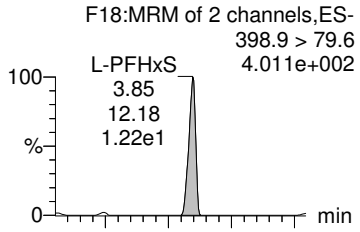

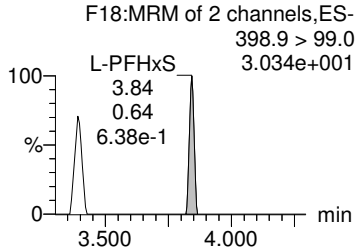

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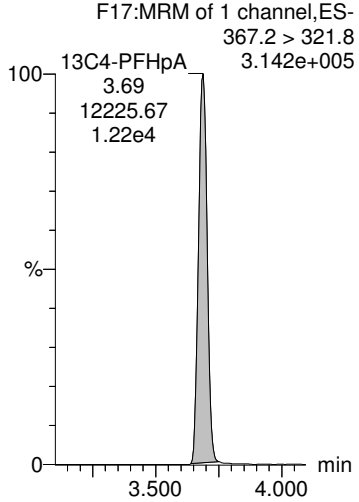

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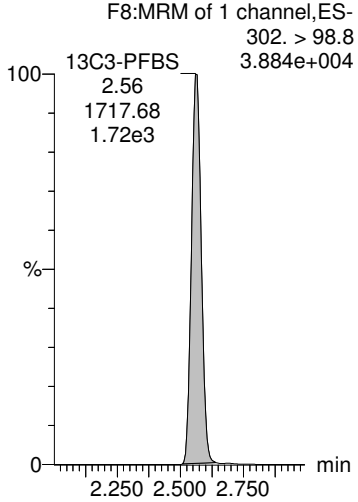

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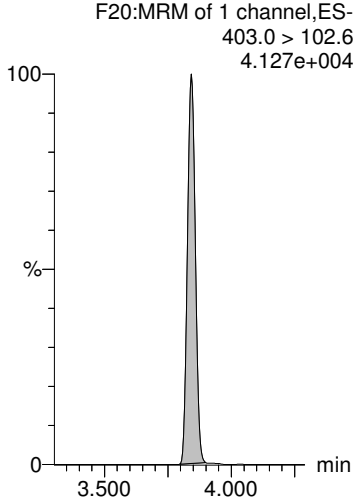

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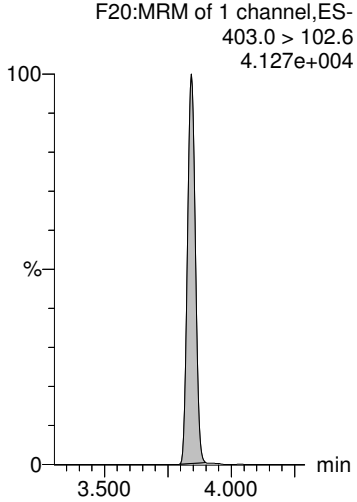

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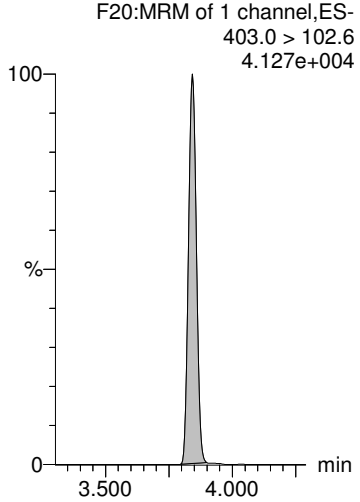

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

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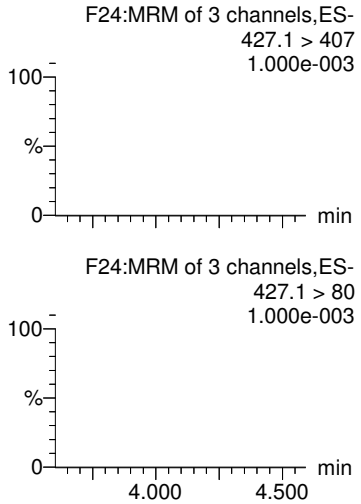
6:2 FTS



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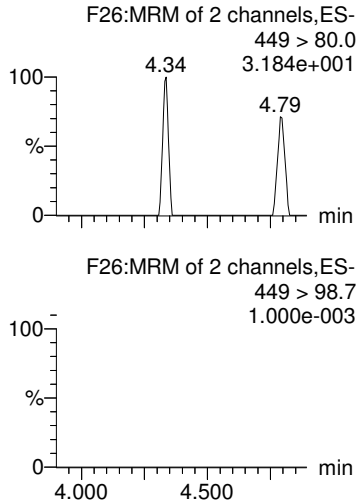
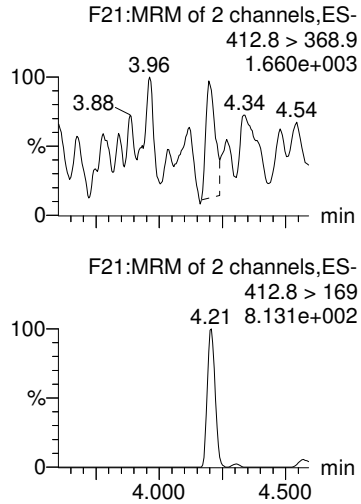
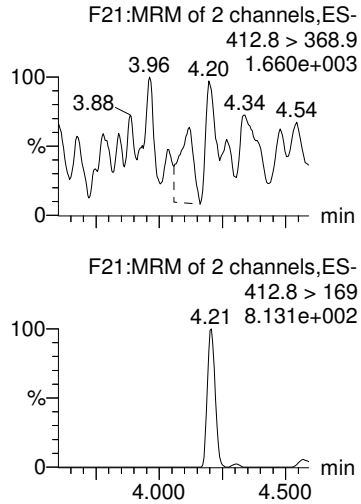


L-PFOA



Br-PFOA



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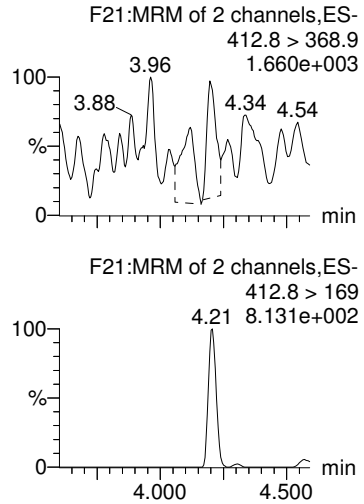

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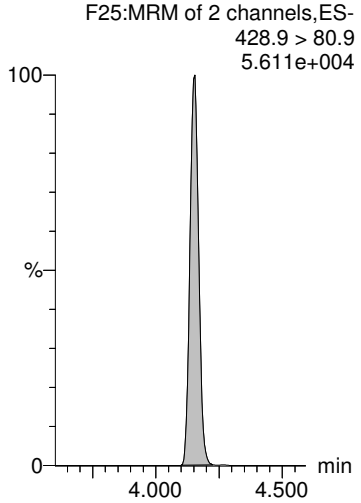

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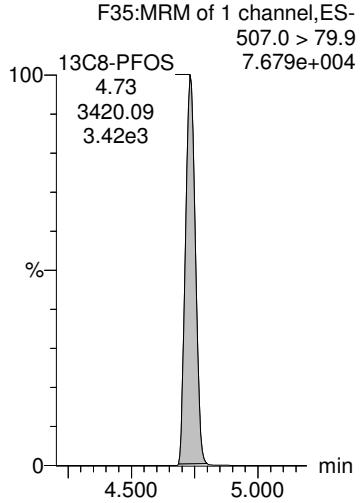

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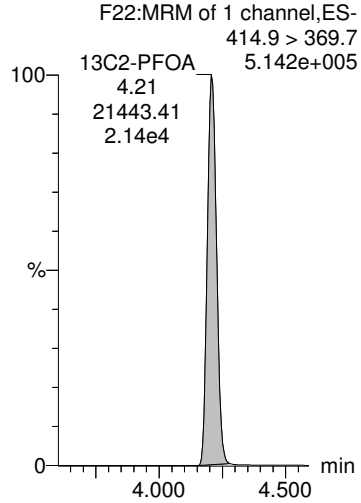

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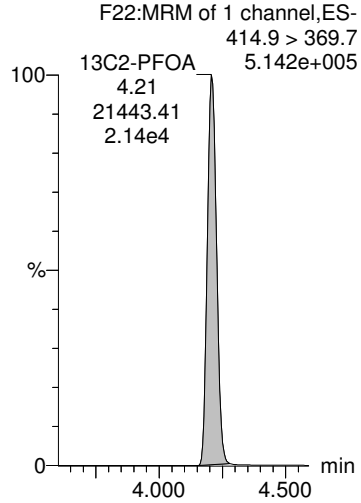

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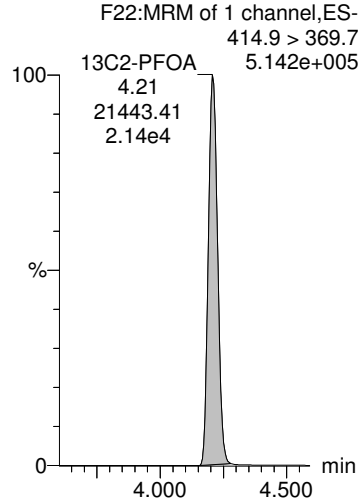

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

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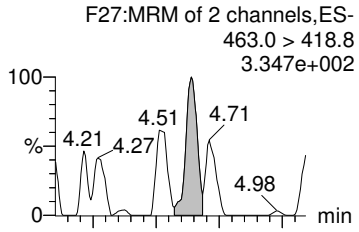

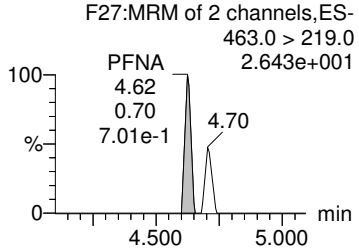

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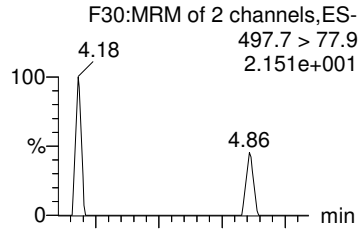
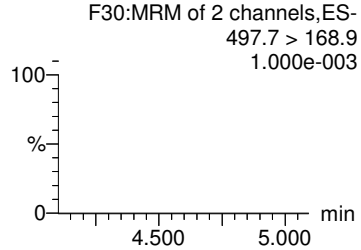
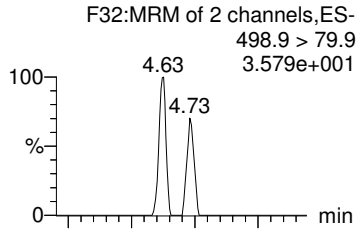
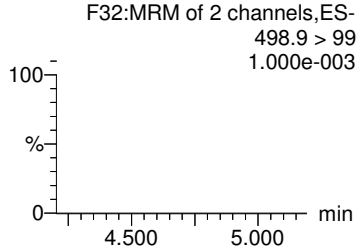


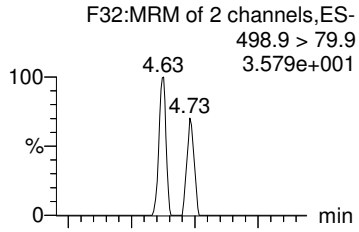


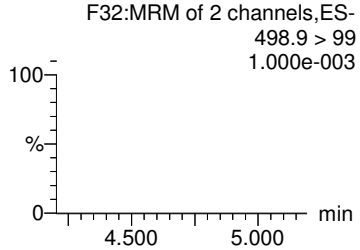
L-PFOS





Br-PFOS





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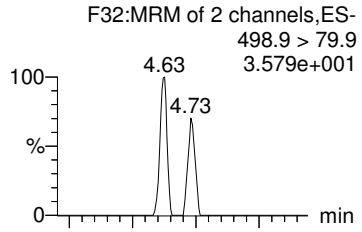

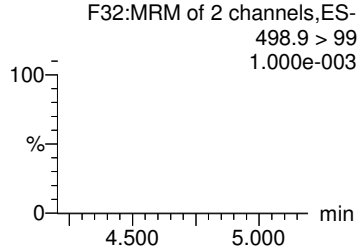

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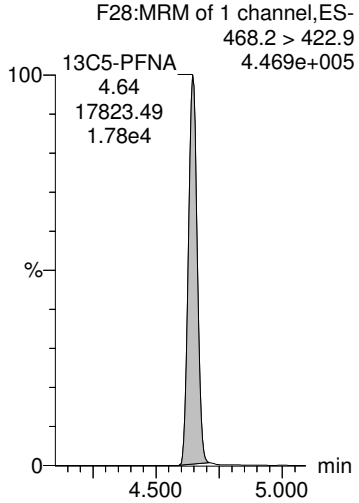

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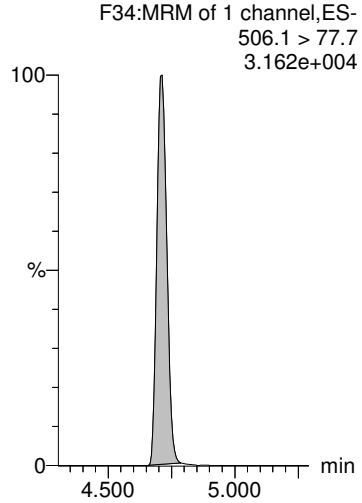

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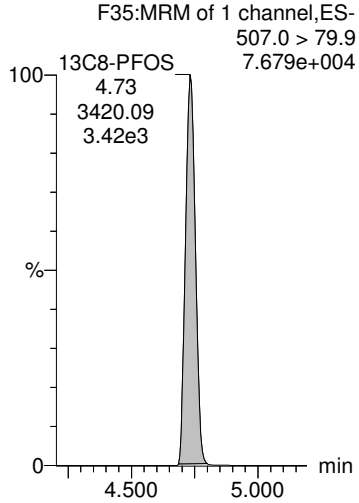

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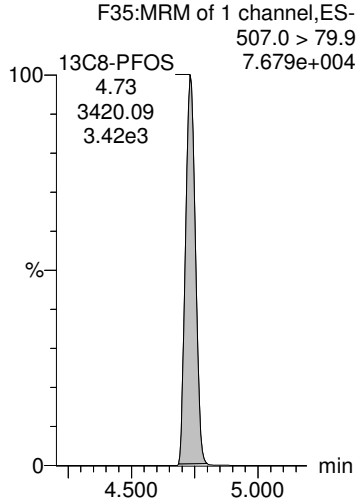

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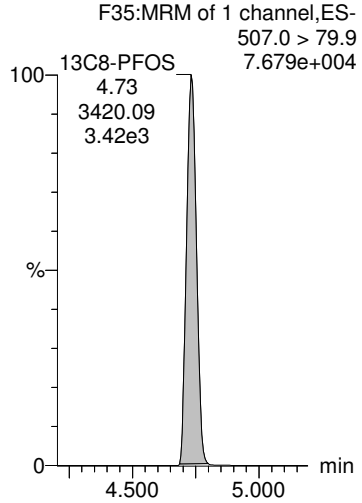

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

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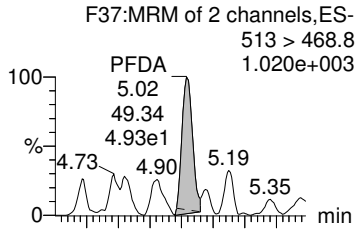
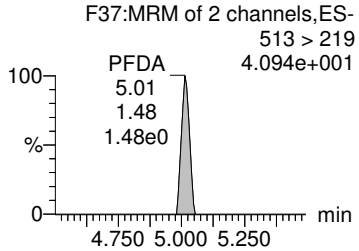
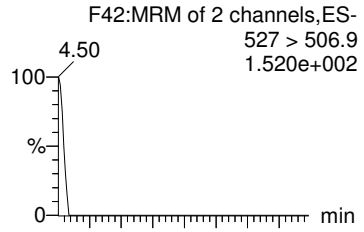
Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

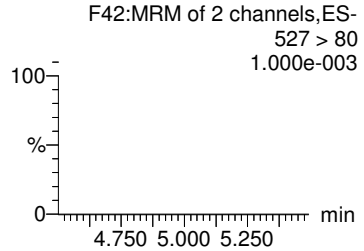
PFDA



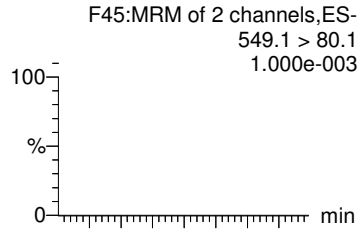


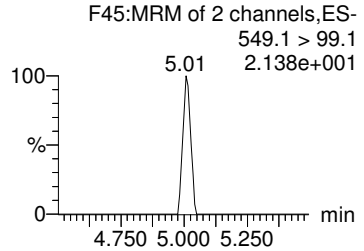
8:2 FTS



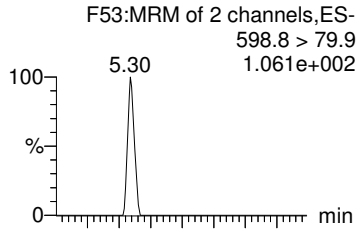


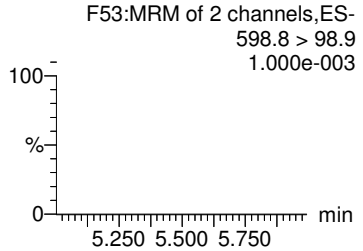
PFNS



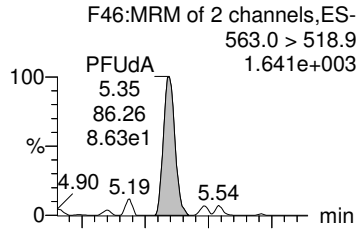


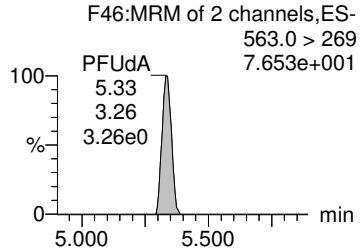
PFDS



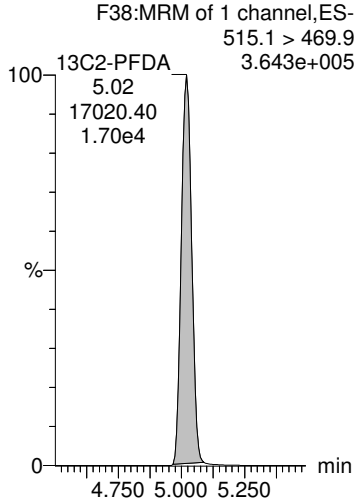


PFUdA

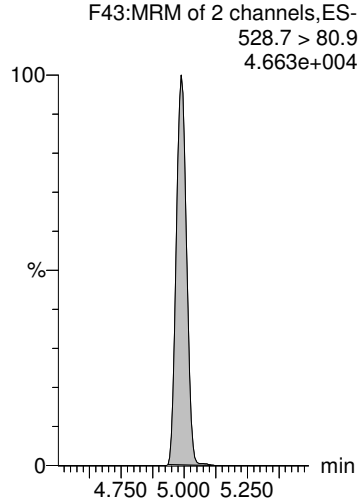




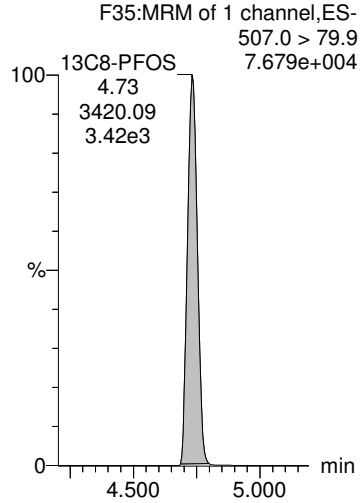
13C2-PFDA



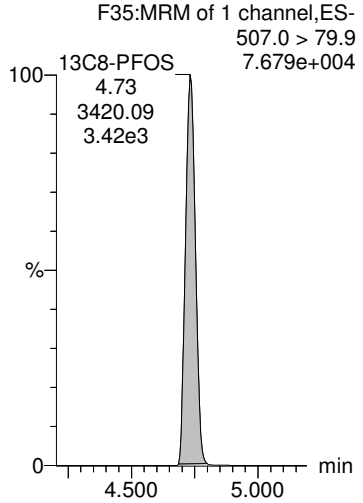
13C2-8:2 FTS



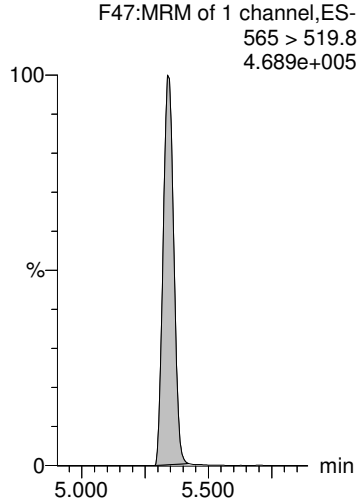
13C8-PFOS



13C8-PFOS



13C2-PFUdA



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

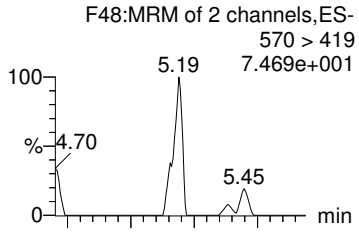
Review: AMR 2/24/2019

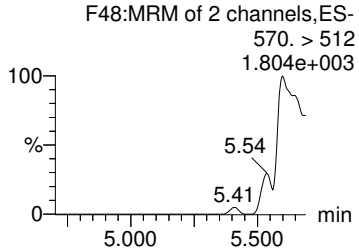
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

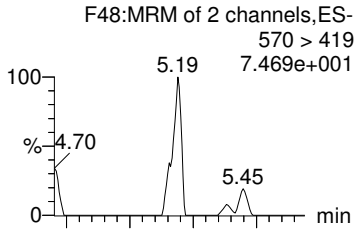
Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

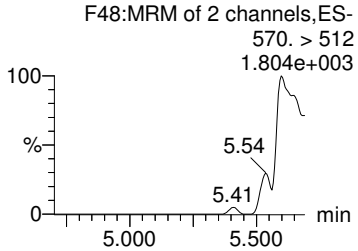
L-MeFOSAA





Br-MeFOSAA





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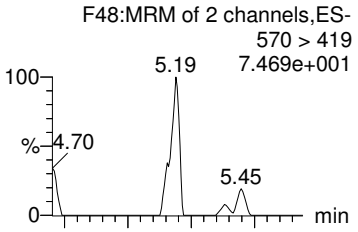
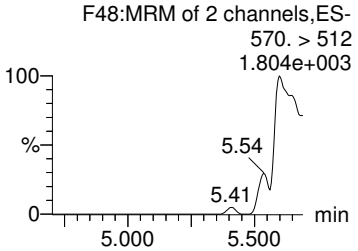
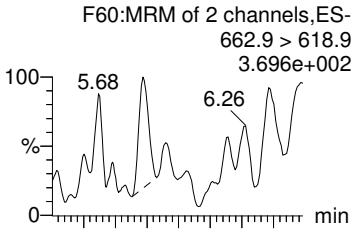
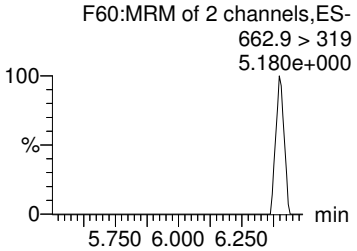


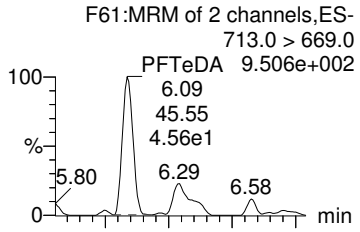


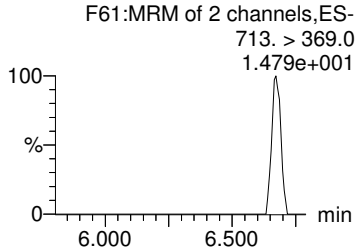
PFTrDA



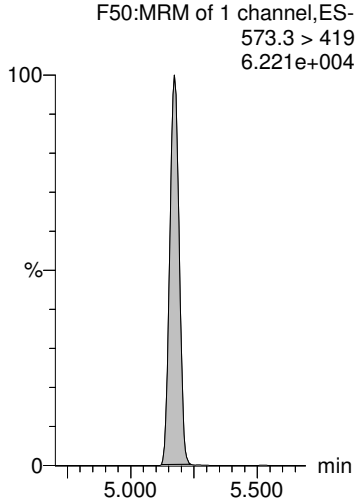


PFTeDA

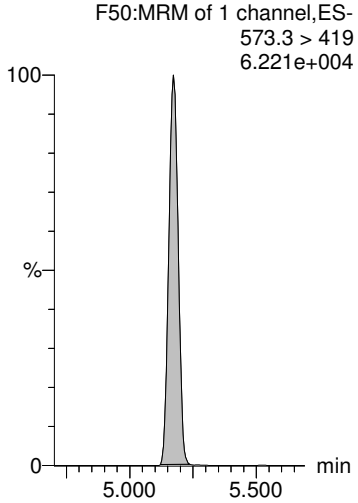




d3-N-MeFOSAA



d3-N-MeFOSAA



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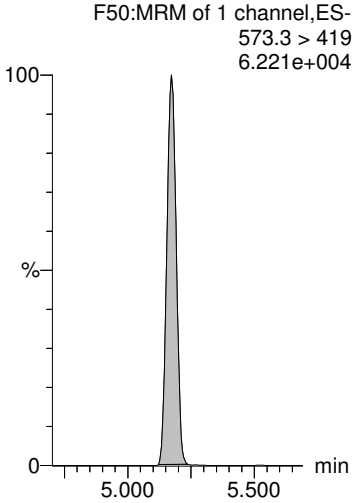
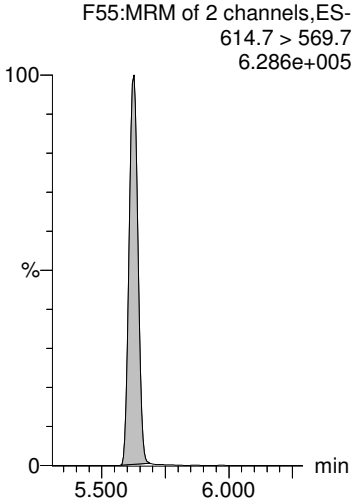
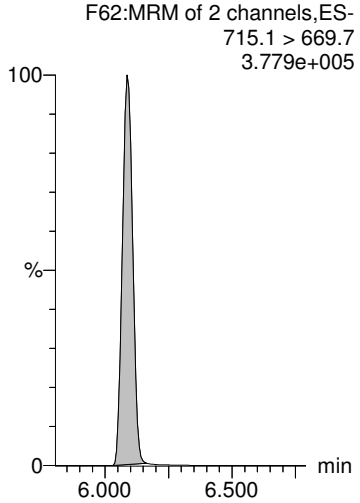


13C2-PFDoA



13C2-PFTeDA



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

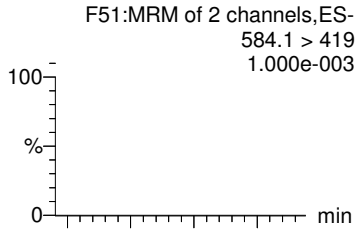
Review: AMR 2/24/2019

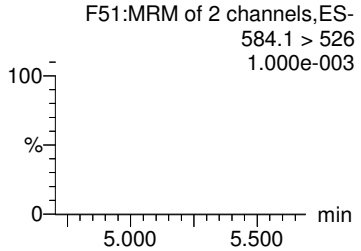
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

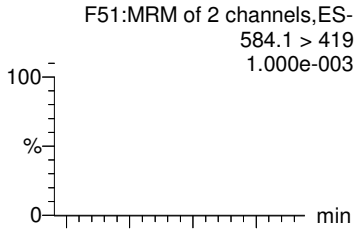
Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

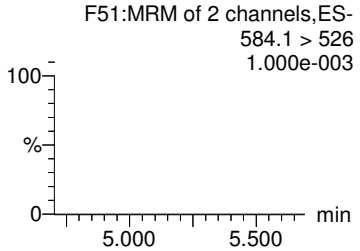
L-EtFOSAA



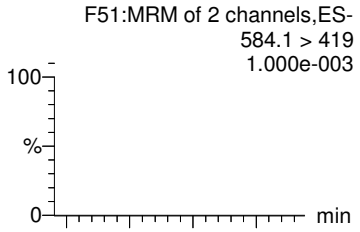


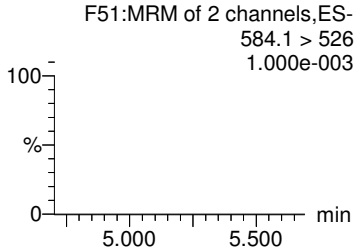
Br-ETFOSAA



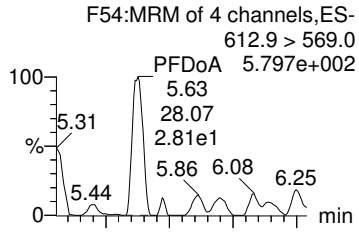


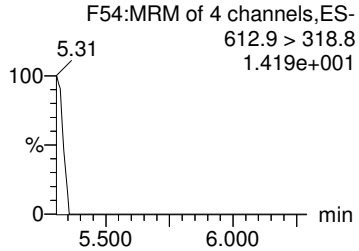
Total N-EtFOSAA



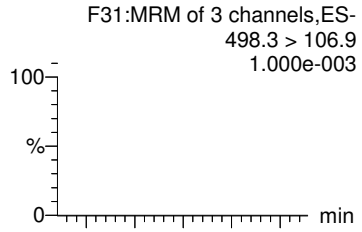


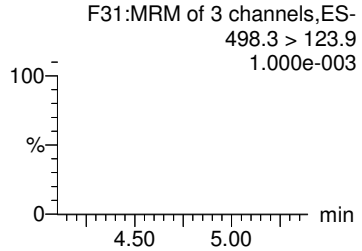
PFDoA



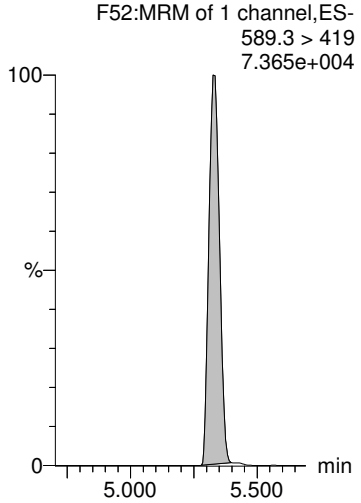


TCDA

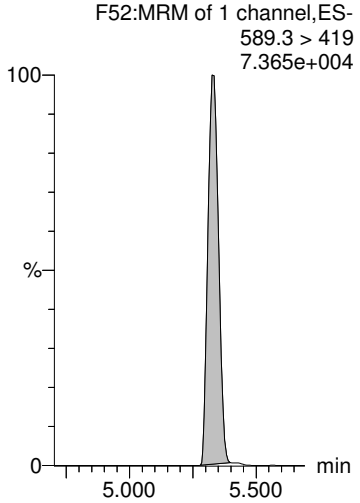




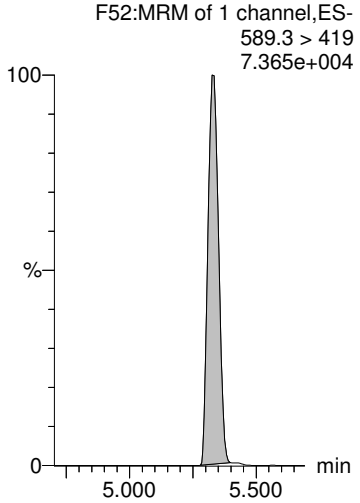
d5-N-EtFOSAA



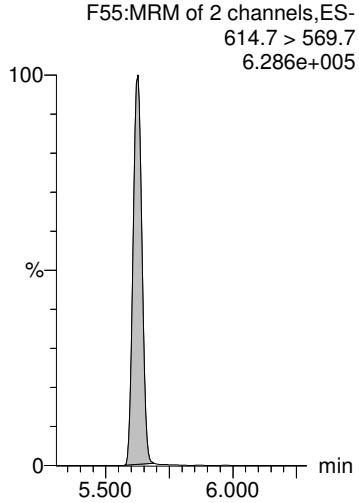
d5-N-EtFOSAA



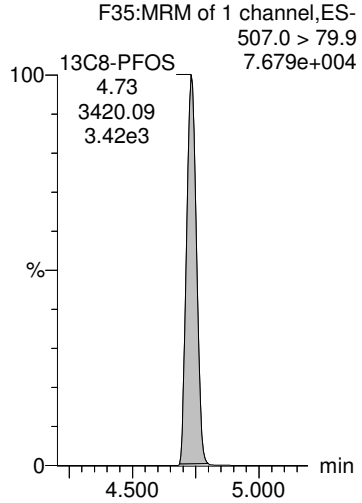
d5-N-EtFOSAA



13C2-PFDoA



13C8-PFOS



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

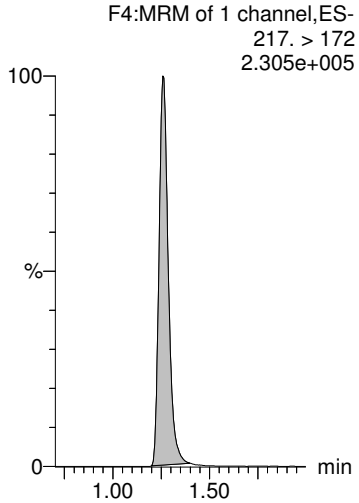
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-23.qld

Last Altered: Thursday, February 21, 2019 17:27:47 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:28:07 Pacific Standard Time

Name: 190219M2_23, Date: 19-Feb-2019, Time: 20:33:19, ID: 1900272-07 FB-01 0.2486, Description: FB-01

13C4-PFBA



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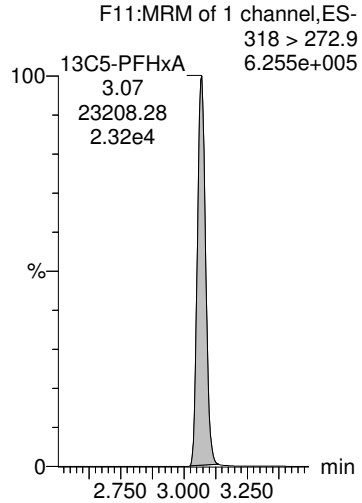
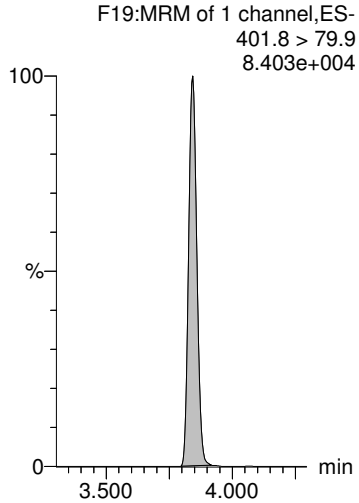
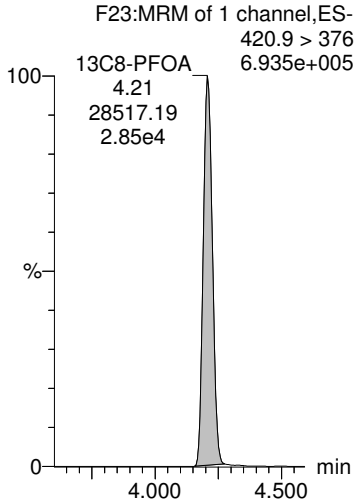


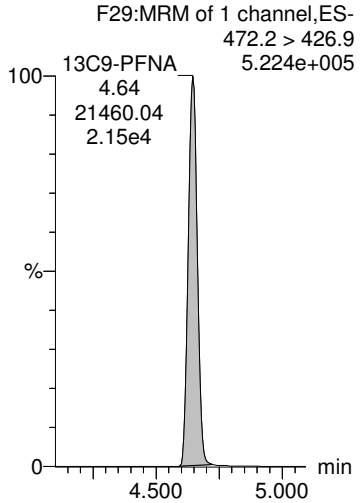
13C3-PFHxS



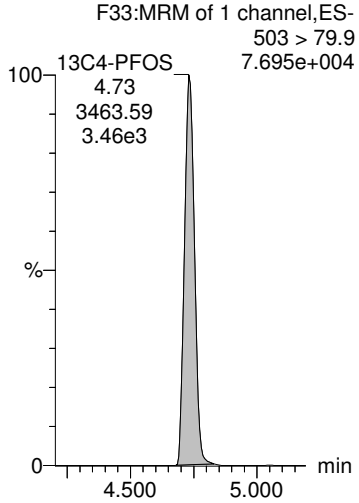
13C8-PFOA



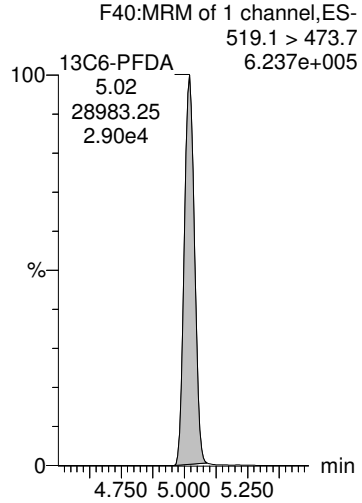
13C9-PFNA



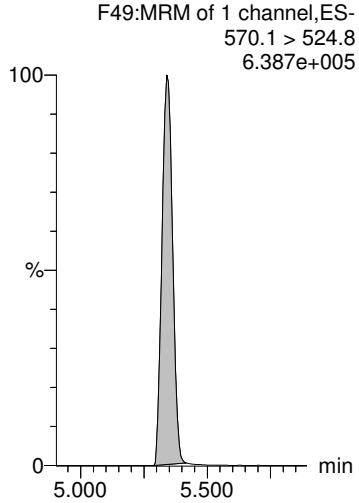
13C4-PFOS



13C6-PFDA



13C7-PFUdA



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8		9.12e3	0.256		1.26						
2	2	PFPeA	263.1 > 218.9		1.27e4	0.256		2.26						
3	3	PFBS	299.0 > 79.7		1.65e3	0.256		2.57						
4	4	4:2 FTS	327.2>307.2		1.81e3	0.256		2.98						
5	5	PFHxA	313 > 269	2.29e1	8.32e3	0.256		3.07	3.07	0.0138	0.0839		6.78	YES
6	36	13C3-PFBA	216.1 > 171.8	9.12e3	1.26e4	0.256	0.735	1.27	1.26	9.04	47.9994	98.4		
7	37	13C3-PFPeA	266. > 221.8	1.27e4	2.30e4	0.256	0.571	2.26	2.26	6.89	47.0644	96.5		
8	38	13C3-PFBS	302. > 98.8	1.65e3	3.08e3	0.256	0.539	2.56	2.57	6.71	48.5635	99.5		
9	39	13C2-4:2 FTS	328.9>81.0	1.81e3	3.08e3	0.256	0.625	2.98	2.98	7.36	45.9713	94.2		
10	40	13C2-PFHxA	315 > 270	8.32e3	2.30e4	0.256	0.962	3.07	3.07	4.52	18.3480	94.0		
11	-1													
12	7	PFHpA	363.0 > 318.9	1.85e1	1.21e4	0.256		3.69	3.69	0.0191	0.1043		37.9	YES
13	6	PFPeS	349.1>80.1		1.65e3	0.256		3.28						
14	8	L-PFHxS	398.9 > 79.6		1.48e3	0.256		3.84						
15	9	Br-PFHxS	398.9 > 79.6		1.48e3	0.256		3.74						
16	68	Total PFHxS	398.9 > 79.6	0.00e0	1.48e3	0.256		3.87		0.000				
17	41	13C4-PFHpA	367.2 > 321.8	1.21e4	2.30e4	0.256	0.562	3.68	3.69	6.58	45.6401	93.5		
18	38	13C3-PFBS	302. > 98.8	1.65e3	3.08e3	0.256	0.539	2.56	2.57	6.71	48.5635	99.5		
19	42	18O2-PFHxS	403.0 > 102.6	1.48e3	3.08e3	0.256	0.502	3.84	3.84	6.02	46.7849	95.9		
20	42	18O2-PFHxS	403.0 > 102.6	1.48e3	3.08e3	0.256	0.502	3.84	3.84	6.02	46.7849	95.9		
21	42	18O2-PFHxS	403.0 > 102.6	1.48e3	3.08e3	0.256	0.502	3.84	3.84	6.02	46.7849	95.9		
22	-1													
23	10	6:2 FTS	427.1 > 407		2.17e3	0.256		4.15						
24	13	PFHpS	449 > 80.0		3.42e3	0.256		4.32						
25	11	L-PFOA	412.8 > 368.9		2.24e4	0.256		4.20						
26	12	Br-PFOA	412.8 > 368.9		2.24e4	0.256		4.10						
27	69	Total PFOA	412.8 > 368.9	0.00e0	2.24e4	0.256		4.21		0.000				
28	43	13C2-6:2 FTS	428.9>80.9	2.17e3	3.49e3	0.256	0.673	4.15	4.15	7.75	44.9679	92.2		
29	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
30	44	13C2-PFOA	414.9 > 369.7	2.24e4	2.84e4	0.256	0.819	4.21	4.21	9.88	47.0746	96.5		
31	44	13C2-PFOA	414.9 > 369.7	2.24e4	2.84e4	0.256	0.819	4.21	4.21	9.88	47.0746	96.5		
32	44	13C2-PFOA	414.9 > 369.7	2.24e4	2.84e4	0.256	0.819	4.21	4.21	9.88	47.0746	96.5		
33	-1													
34	14	PFNA	463.0 > 418.8	5.09e0	1.72e4	0.256		4.64	4.64	0.00369	0.1558		10.3	YES
35	15	PFOSA	497.7 > 77.9		1.60e3	0.256		4.71						
36	16	L-PFOS	498.9 > 79.9		3.42e3	0.256		5.10						

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Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
37	17	Br-PFOS	498.9 > 79.9	3.79e0	3.42e3	0.256		4.62	4.64	0.0139	0.1759		1.94	NO
38	70	Total PFOS	498.9 > 79.9	3.79e0	3.42e3	0.256		4.74		0.0139	0.1759			
39	45	13C5-PFNA	468.2 > 422.9	1.72e4	2.18e4	0.256	0.991	4.64	4.64	9.90	39.0159	80.0		
40	46	13C8-PFOSA	506.1 > 77.7	1.60e3	3.12e4	0.256	0.082	4.71	4.71	0.641	30.6482	62.8		
41	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
42	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
43	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
44	-1													
45	18	PFDA	513 > 468.8	4.06e1	1.67e4	0.256		5.02	5.03	0.0305			18.1	YES
46	19	8:2 FTS	527 > 506.9		2.16e3	0.256		4.99						
47	20	PFNS	549.1 > 80.1		3.42e3	0.256		5.08						
48	26	PFDS	598.8 > 79.9		3.42e3	0.256		5.39						
49	25	PFUdA	563.0 > 518.9		2.16e4	0.256		5.34						
50	48	13C2-PFDA	515.1 > 469.9	1.67e4	2.85e4	0.256	0.768	5.02	5.02	7.32	37.1928	76.2		
51	49	13C2-8:2 FTS	528.7 > 80.9	2.16e3	3.49e3	0.256	0.720	4.99	4.99	7.73	41.9045	85.9		
52	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
53	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
54	51	13C2-PFUdA	565 > 519.8	2.16e4	3.12e4	0.256	0.941	5.34	5.34	8.68	36.0043	73.8		
55	-1													
56	21	L-MeFOSAA	570 > 419		2.64e3	0.256		5.17						
57	22	Br-MeFOSAA	570. > 419		2.64e3	0.256		5.07						
58	71	Total N-MeFOSAA	570. > 419	0.00e0	2.64e3	0.256		5.33		0.000				
59	29	PFTrDA	662.9 > 618.9		2.21e4	0.256		5.87						
60	30	PFTeDA	713.0 > 669.0	4.94e1	1.69e4	0.256		6.09	6.09	0.0366	0.0735		89.7	YES
61	50	d3-N-MeFOSAA	573.3 > 419	2.64e3	3.12e4	0.256	0.110	5.17	5.17	1.06	37.5774	77.0		
62	50	d3-N-MeFOSAA	573.3 > 419	2.64e3	3.12e4	0.256	0.110	5.17	5.17	1.06	37.5774	77.0		
63	50	d3-N-MeFOSAA	573.3 > 419	2.64e3	3.12e4	0.256	0.110	5.17	5.17	1.06	37.5774	77.0		
64	53	13C2-PFDoA	614.7 > 569.7	2.21e4	2.85e4	0.256	1.175	5.62	5.62	9.70	32.2243	66.0		
65	55	13C2-PFTeDA	715.1 > 669.7	1.69e4	3.12e4	0.256	0.696	6.09	6.09	6.78	37.9985	77.9		
66	-1													
67	23	L-EtFOSAA	584.1 > 419		3.73e3	0.256		5.33						
68	24	Br-ETFOSAA	584.1 > 419		3.73e3	0.256		5.23						
69	72	Total N-EtFOSAA	584.1 > 419	0.00e0	3.73e3	0.256		5.49		0.000				
70	27	PFDoA	612.9 > 569.0		2.21e4	0.256		5.63						
71	73	TCDA	498.3>106.9			0.256		5.45						
72	52	d5-N-EtFOSAA	589.3 > 419	3.73e3	3.12e4	0.256	0.145	5.33	5.33	1.50	40.3210	82.6		

GM 2/21/2019

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

	#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	Pred.RT	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
73	52	d5-N-EtFOSAA	589.3 > 419	3.73e3	3.12e4	0.256	0.145	5.33	5.33	1.50	40.3210	82.6		
74	52	d5-N-EtFOSAA	589.3 > 419	3.73e3	3.12e4	0.256	0.145	5.33	5.33	1.50	40.3210	82.6		
75	53	13C2-PFDoA	614.7 > 569.7	2.21e4	2.85e4	0.256	1.175	5.62	5.62	9.70	32.2243	66.0		
76	47	13C8-PFOS	507.0 > 79.9	3.42e3	3.49e3	0.256	1.068	4.73	4.73	12.2	44.6734	91.6		
77	-1													
78	60	13C4-PFBA	217. > 172	1.26e4	1.26e4	0.256	1.000	1.26	1.26	12.5	48.7938	100.0		
79	61	13C5-PFHxA	318 > 272.9	2.30e4	2.30e4	0.256	1.000	3.07	3.07	12.5	48.7938	100.0		
80	62	13C3-PFHxS	401.8 > 79.9	3.08e3	3.08e3	0.256	1.000	3.84	3.84	12.5	48.7938	100.0		
81	63	13C8-PFOA	420.9 > 376	2.84e4	2.84e4	0.256	1.000	4.21	4.21	12.5	48.7938	100.0		
82	64	13C9-PFNA	472.2 > 426.9	2.18e4	2.18e4	0.256	1.000	4.64	4.64	12.5	48.7938	100.0		
83	65	13C4-PFOS	503 > 79.9	3.49e3	3.49e3	0.256	1.000	4.73	4.73	12.5	48.7938	100.0		
84	66	13C6-PFDA	519.1 > 473.7	2.85e4	2.85e4	0.256	1.000	5.01	5.02	12.5	48.7938	100.0		
85	67	13C7-PFUdA	570.1 > 524.8	3.12e4	3.12e4	0.256	1.000	5.34	5.34	12.5	48.7938	100.0		

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Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

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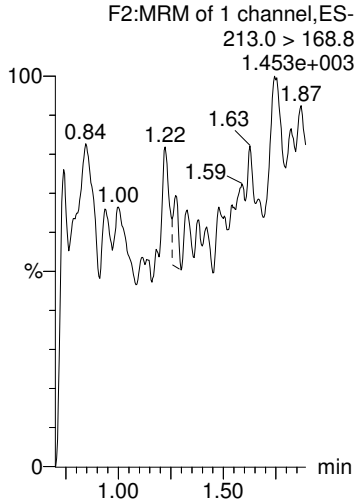
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

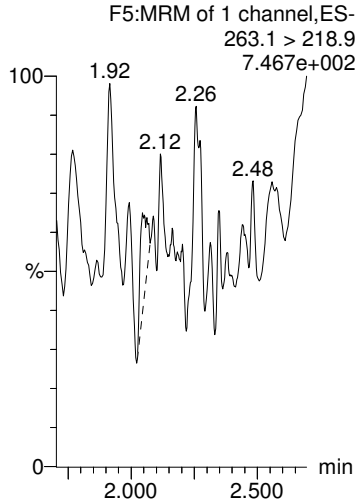
Method: Z:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: Z:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

PFBA



PFPeA



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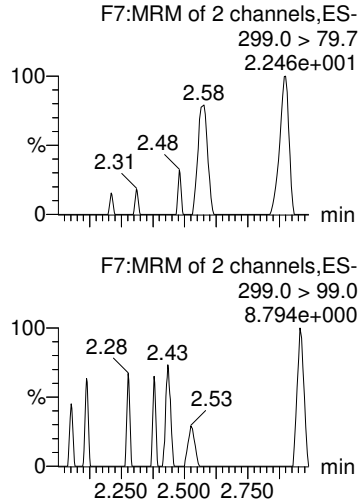
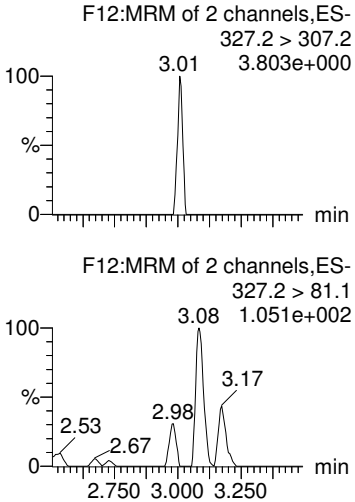
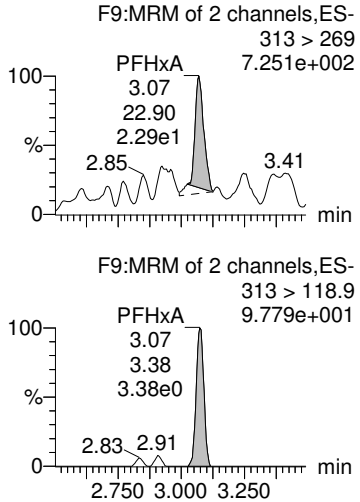


4:2 FTS



PFHxA



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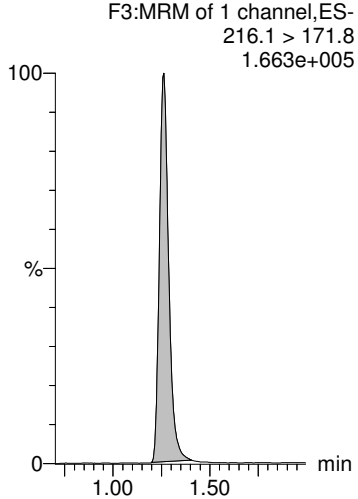

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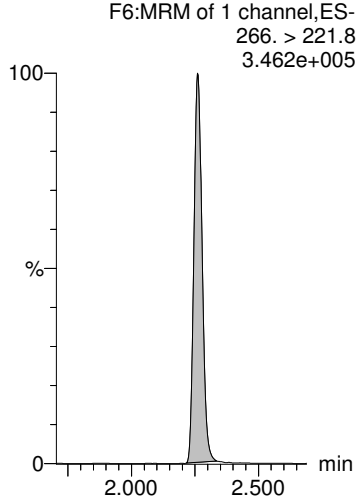

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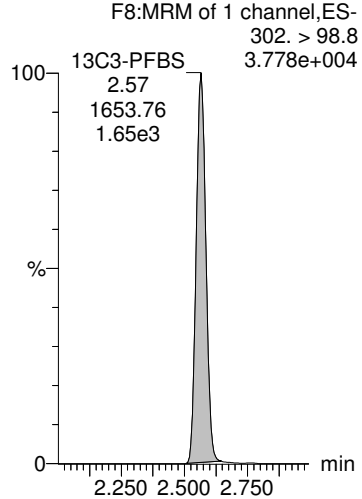
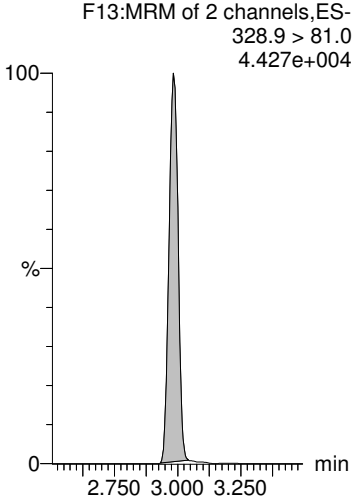


13C2-4:2 FTS



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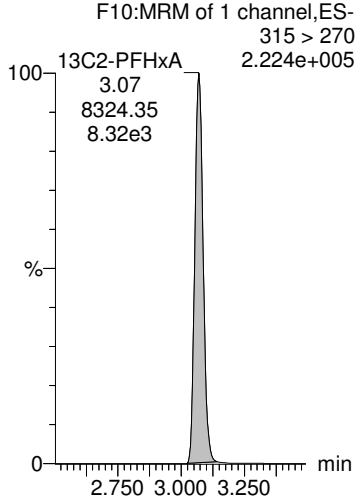

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Vista Analytical Laboratory L24 LBT

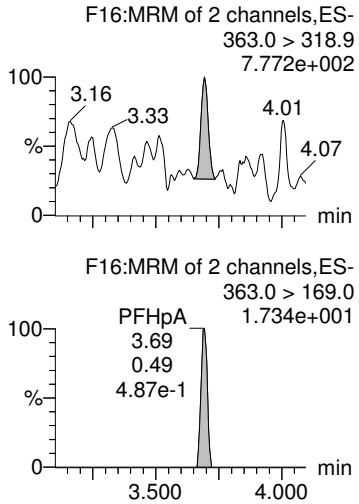
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

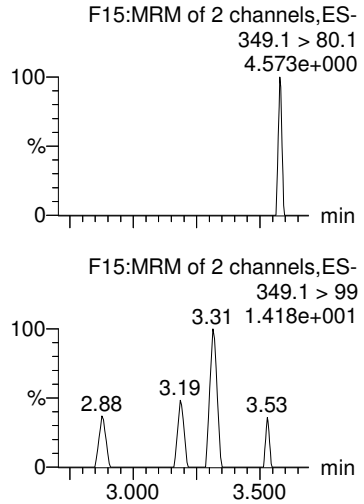
Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

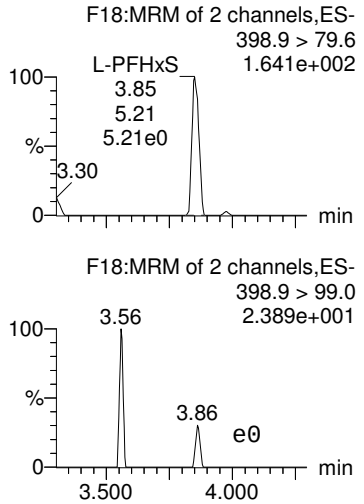
PFHpA



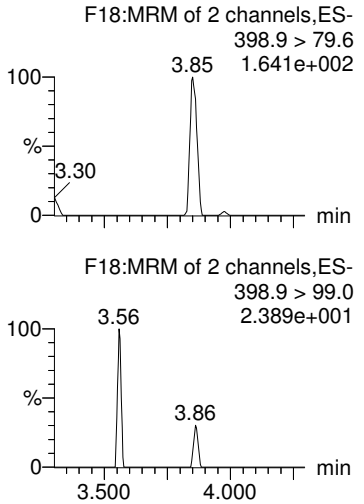
PFPeS



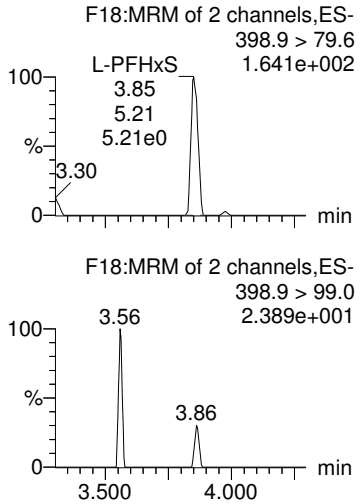
L-PFHxS



Br-PFHxS



Total PFHxS



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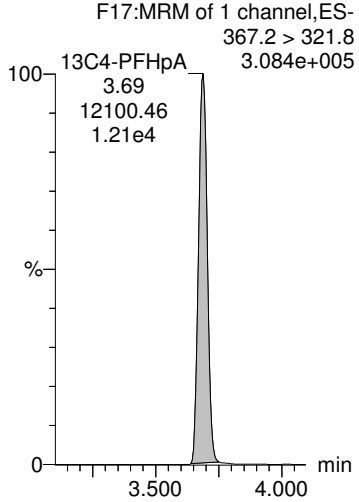
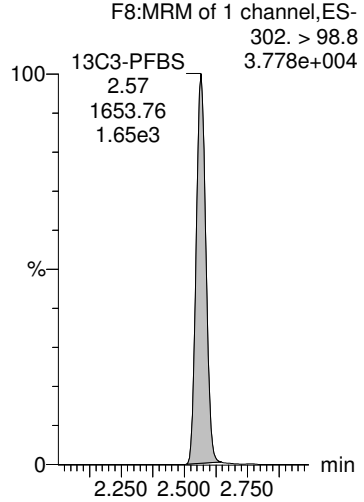


13C3-PFBS



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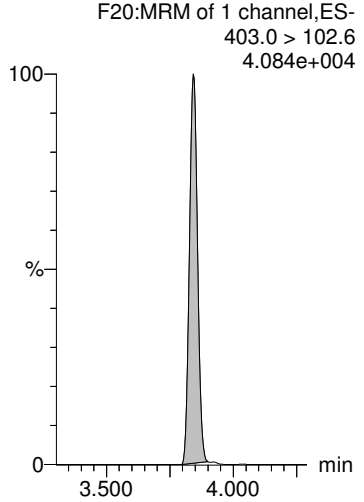

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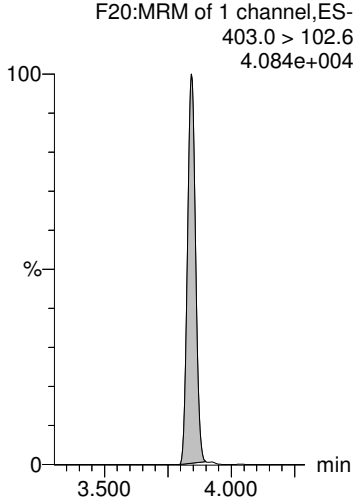
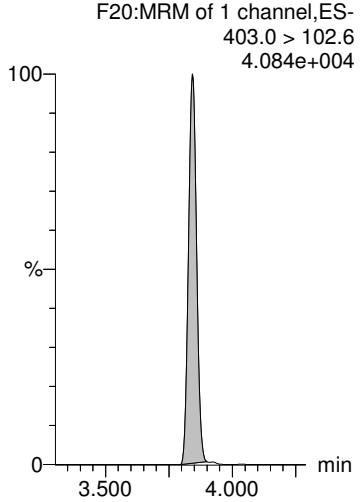


18O2-PFHxS



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Vista Analytical Laboratory L24 LBT

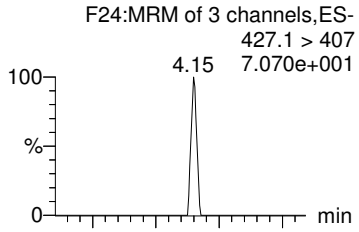
Review: AMR 2/24/2019

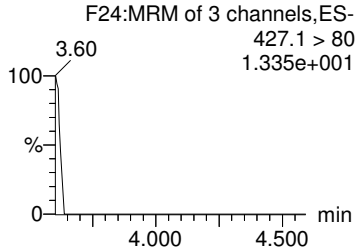
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

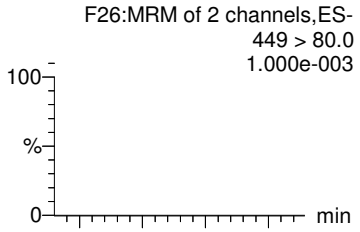
Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

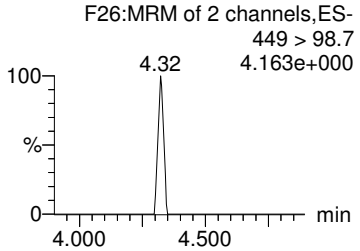
6:2 FTS



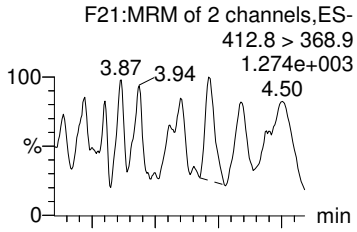


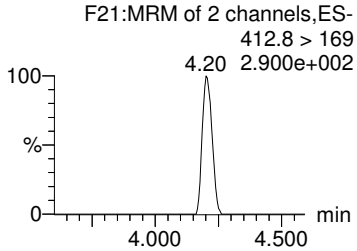
PFHpS



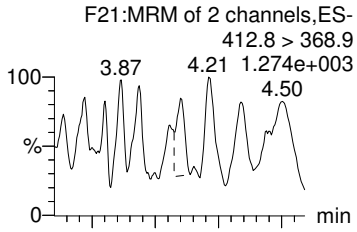


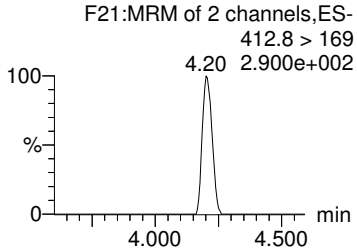
L-PFOA





Br-PFOA





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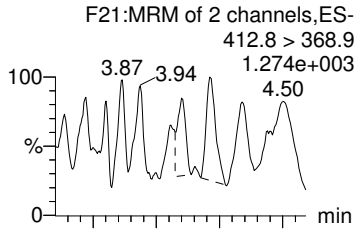
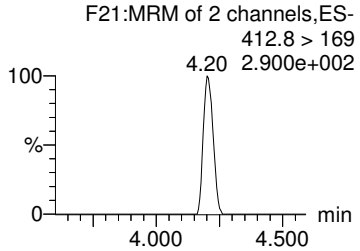
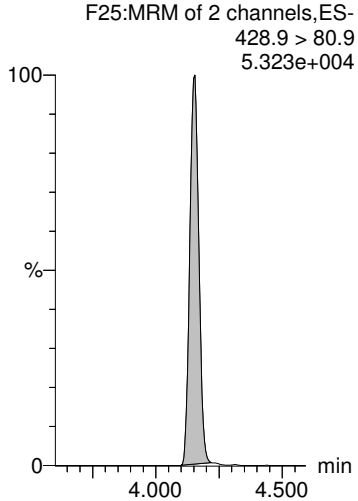
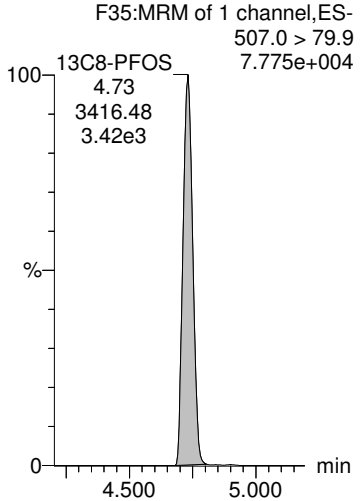




13C2-6:2 FTS



13C8-PFOS



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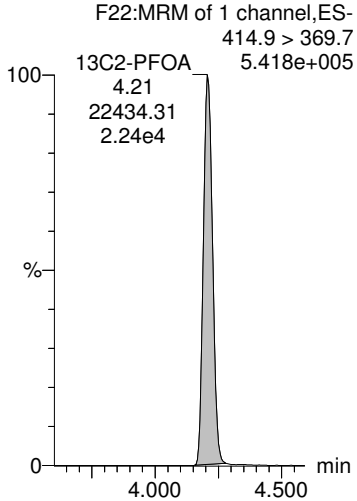

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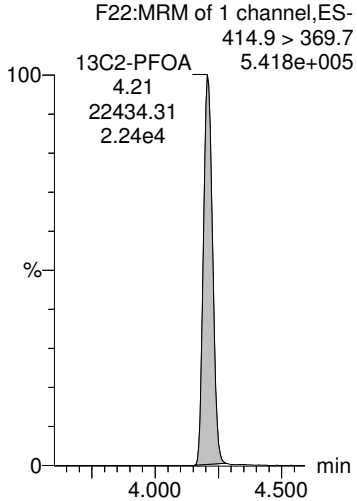

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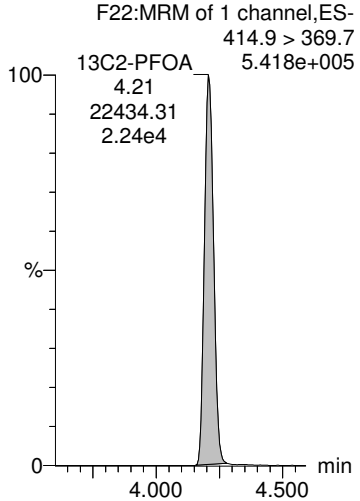

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

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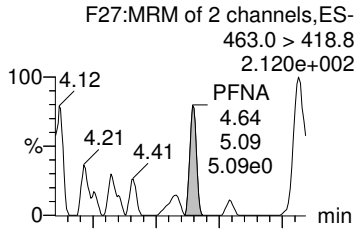

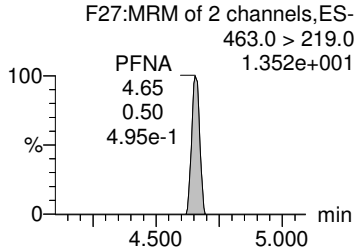

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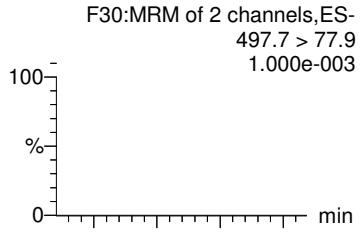

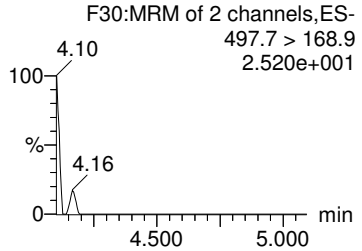

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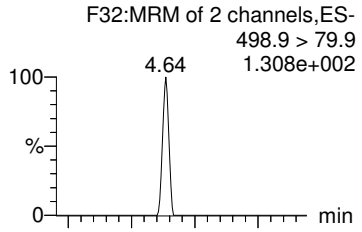

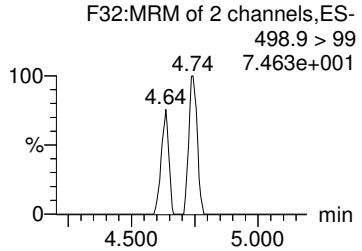

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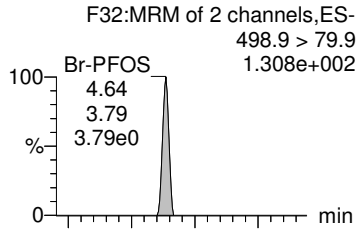

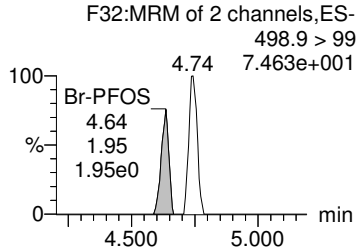

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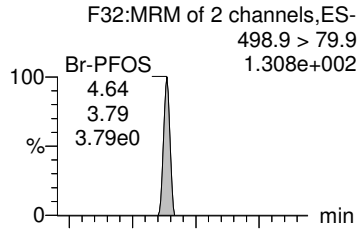

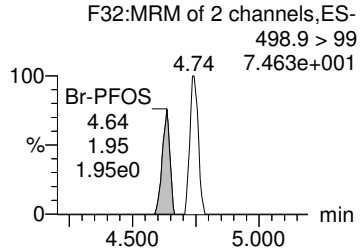

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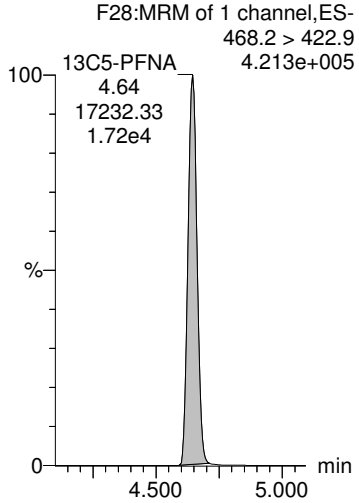

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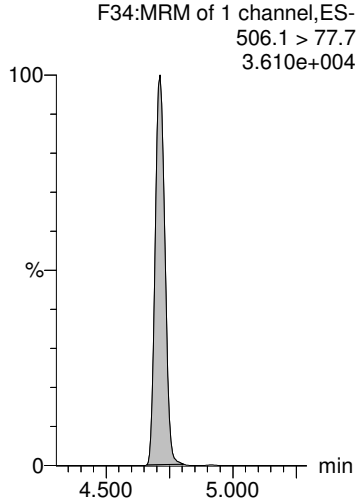

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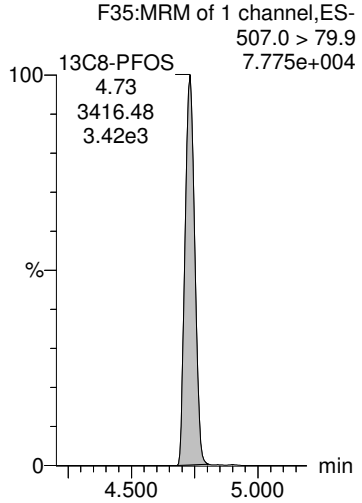

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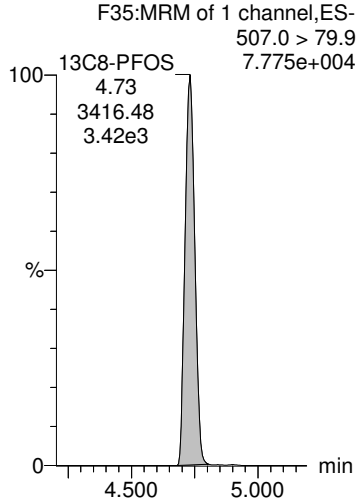

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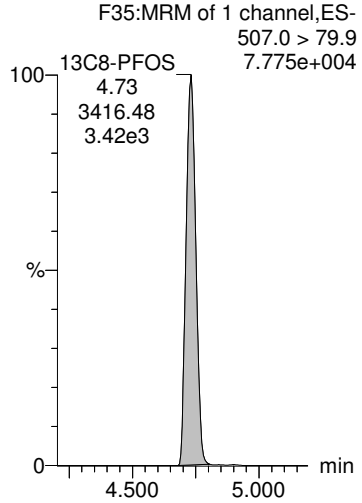


 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

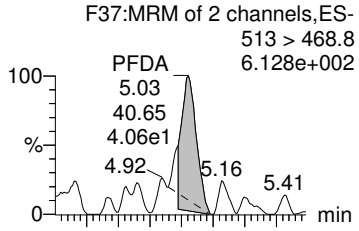
Review: AMR 2/24/2019

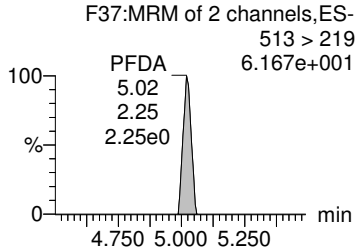
Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

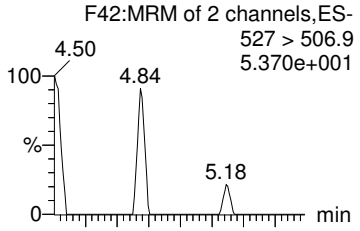
Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

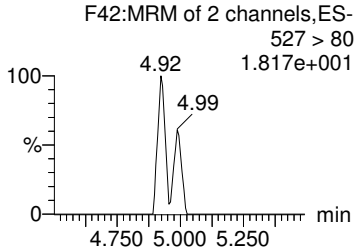
PFDA





8:2 FTS





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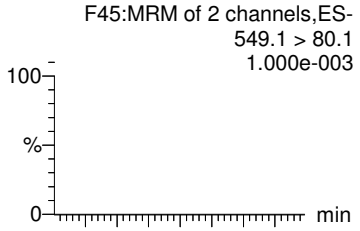

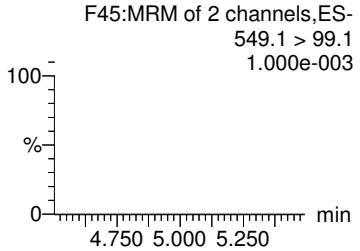

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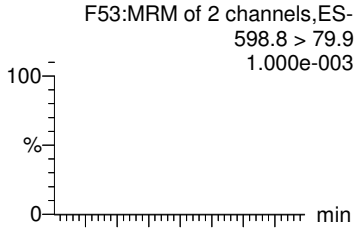

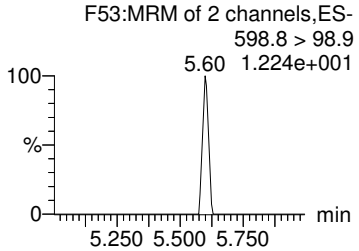

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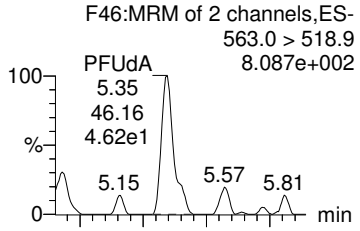

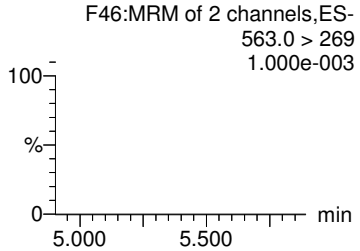

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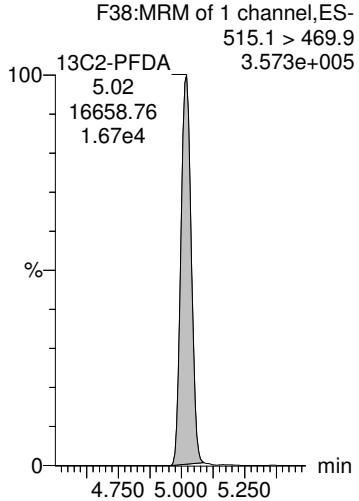
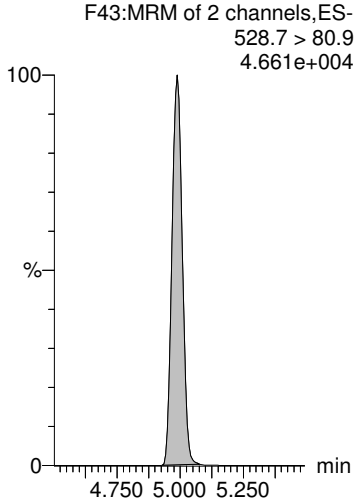


13C2-8:2 FTS



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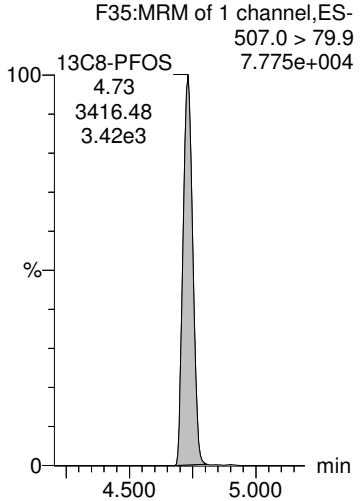

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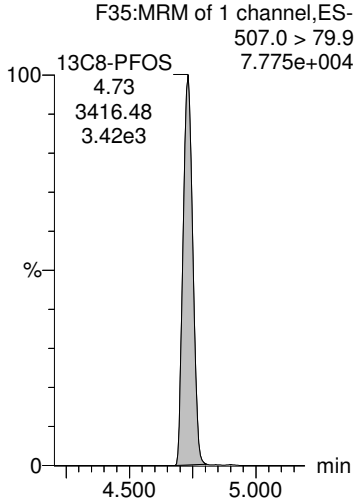

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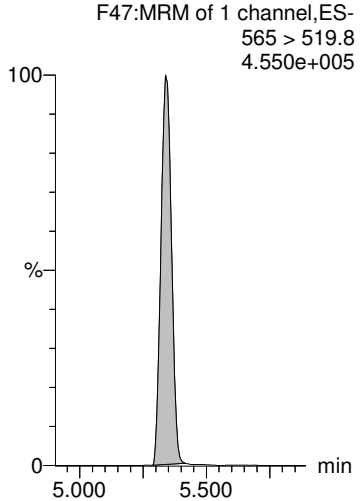

 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

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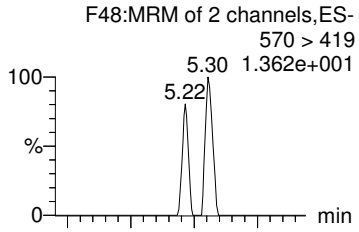
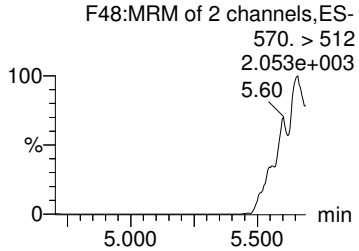
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

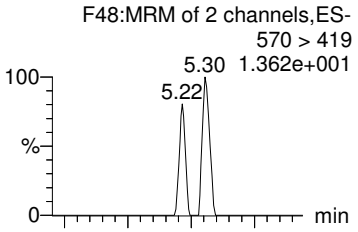
Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

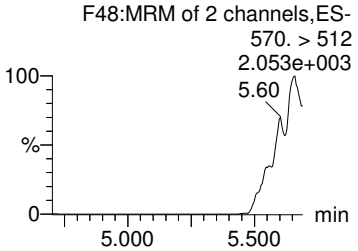
L-MeFOSAA





Br-MeFOSAA





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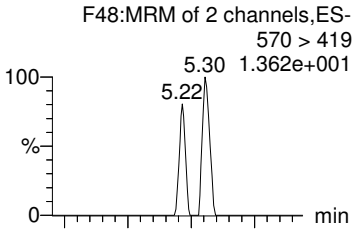

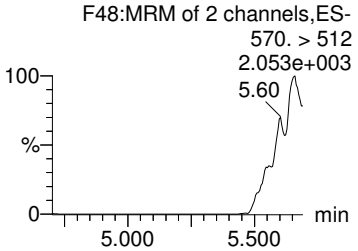

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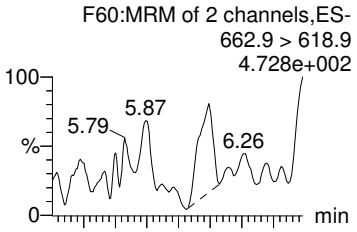

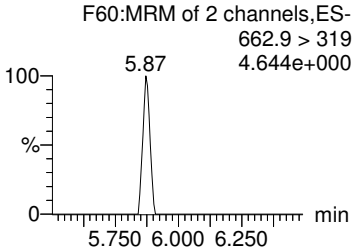

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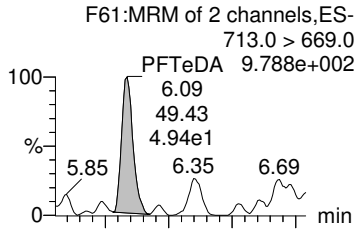
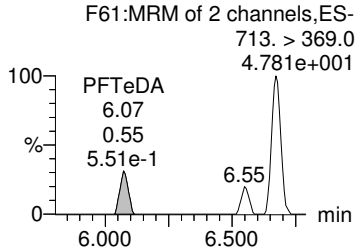
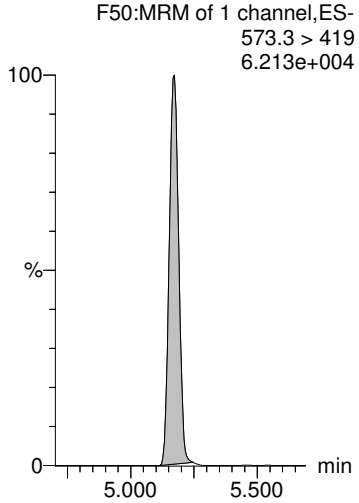




d3-N-MeFOSAA



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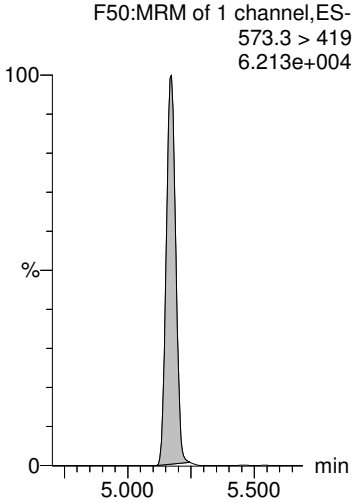

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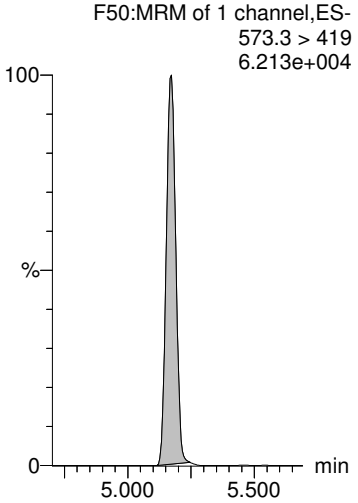

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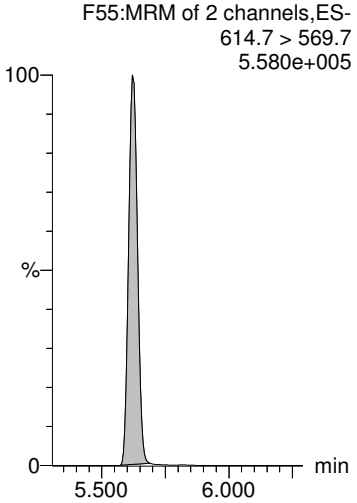

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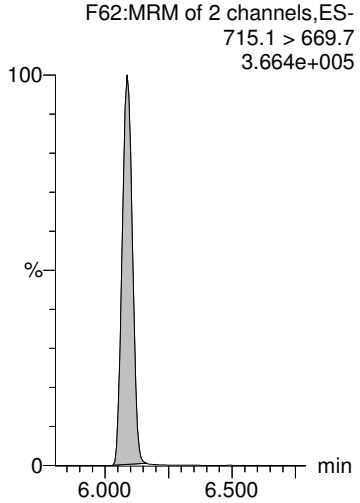


 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

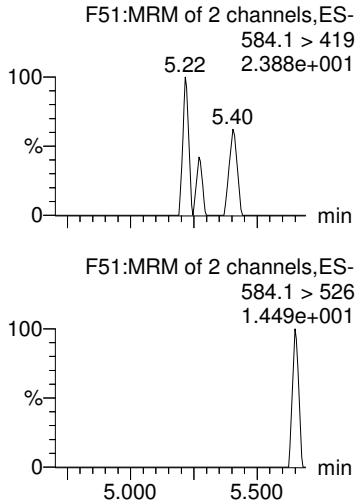
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

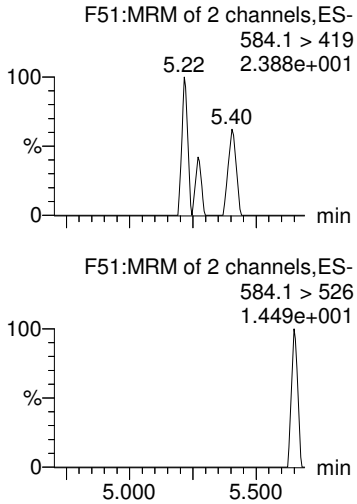
Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

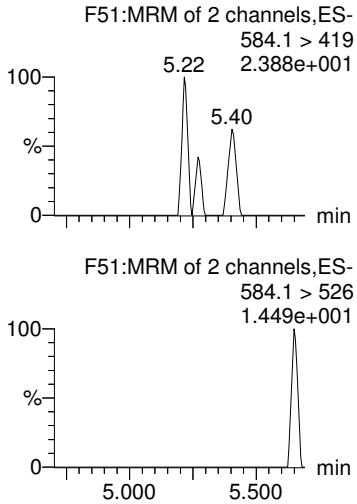
L-EtFOSAA



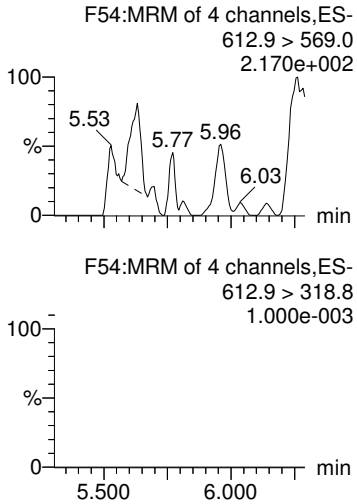
Br-ETFOSAA



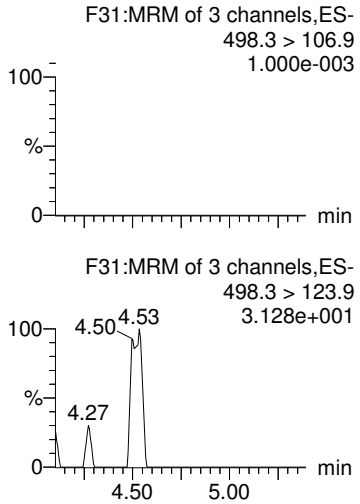
Total N-EtFOSAA



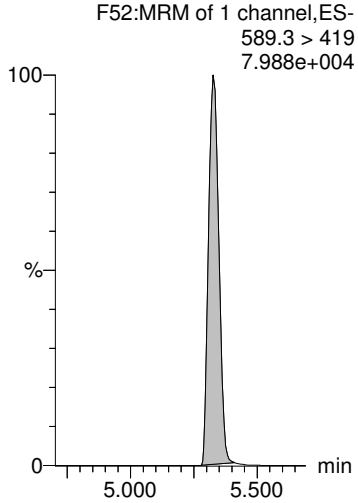
PFDoA



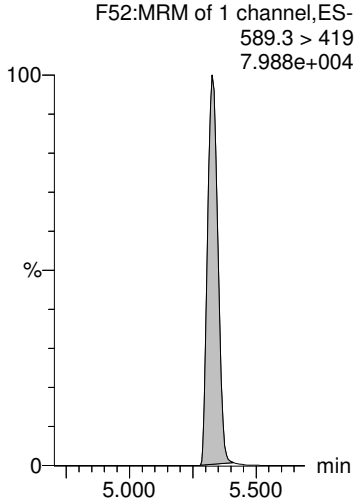
TCDA



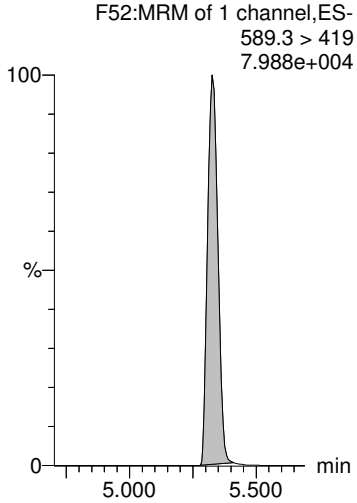
d5-N-EtFOSAA



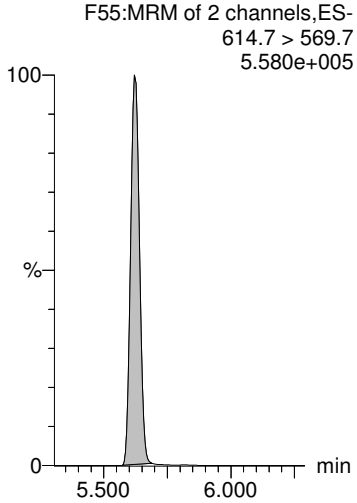
d5-N-EtFOSAA



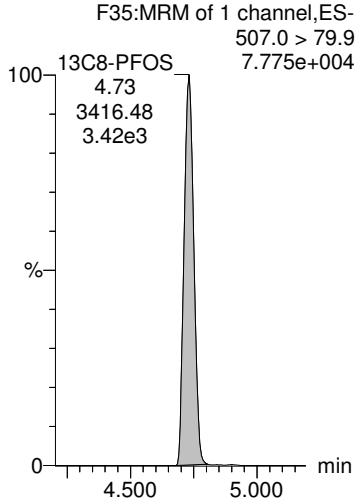
d5-N-EtFOSAA



13C2-PFDoA



13C8-PFOS



 GM 2/21/2019

Vista Analytical Laboratory L24 LBT

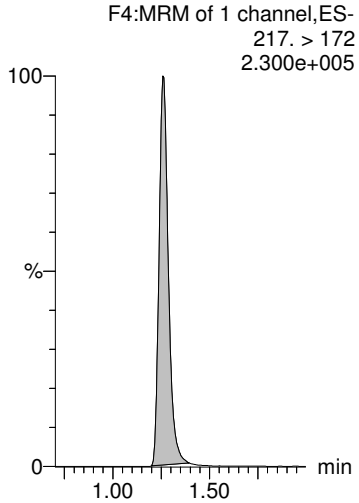
Review: AMR 2/24/2019

Dataset: Z:\Projects\PFAS.PRO\Results\190219M2\190219M2-24.qld

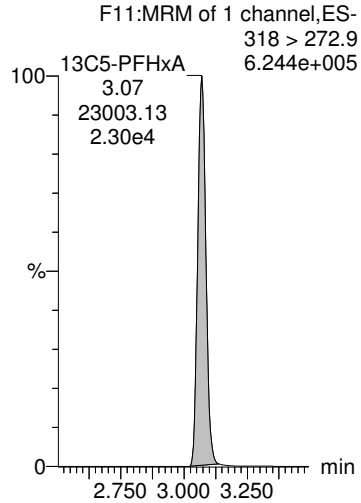
Last Altered: Thursday, February 21, 2019 17:31:03 Pacific Standard Time
Printed: Thursday, February 21, 2019 17:31:18 Pacific Standard Time

Name: 190219M2_24, Date: 19-Feb-2019, Time: 20:43:58, ID: 1900272-08 TB-01 0.25618, Description: TB-01

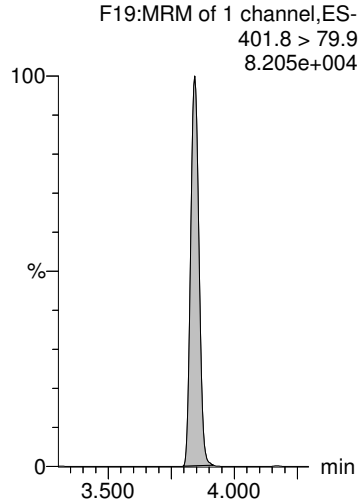
13C4-PFBA



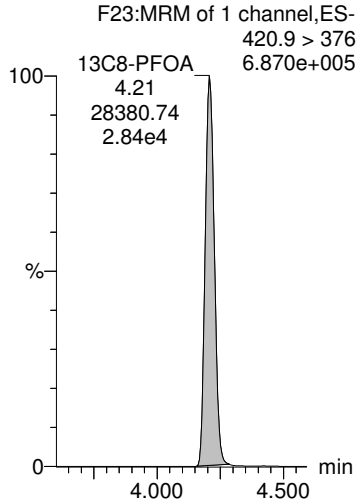
13C5-PFHxA



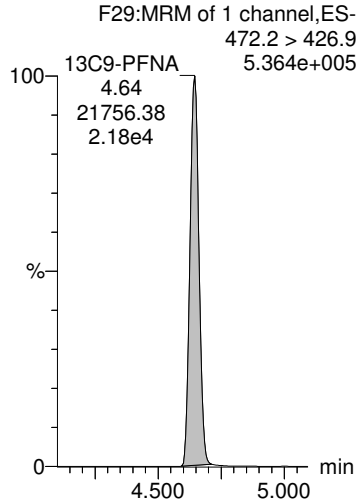
13C3-PFHxS



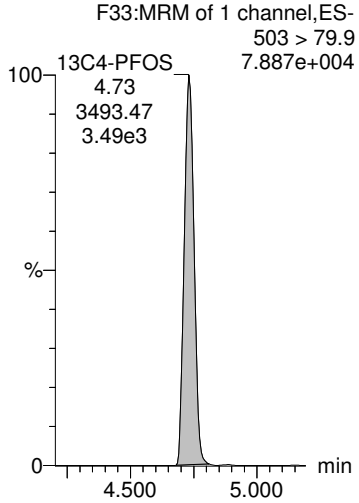
13C8-PFOA



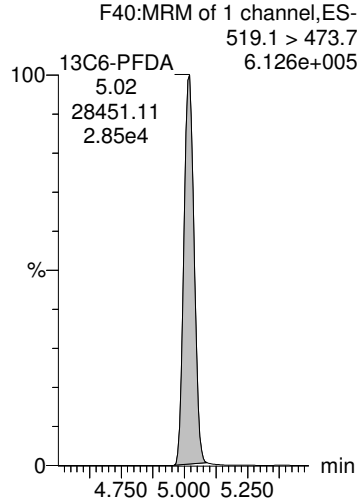
13C9-PFNA



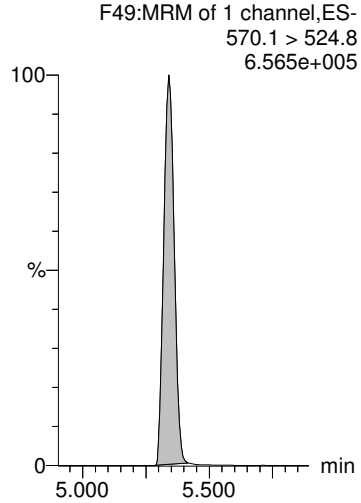
13C4-PFOS



13C6-PFDA



13C7-PFUdA



 GM 2/21/2019

CONTINUING CALIBRATION

LC Calibration Standards Review Checklist Q4

		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	N/A
Calibration ID: ST190219MZ-11	L (M) H	☑	☑	☑	☑	☑	☑	☐
Calibration ID: -12	L (M) H	☑	☑	☑	☑	☑	☑	☐
Calibration ID: -13	L (M) H	☑	☑	☑	☑	☑	☑	☑
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐ N/A CaH 2/20/19	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☑

Full Mass Cal. Date: 1/26/19

Run Log Present: ☑

# of Samples per Sequence Checked: ☑

Instrument Blank Saved ☑

IIS Area Saved ☑

Reviewed By: OM 2/20/19
Initials/Date

Comments:

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Jam 2/20/19

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

	#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8	7573.749	7923.504	1.00	1.27	11.948	9.9	99.3	NO		
2	2	PFPeA	263.1 > 218.9	10125.188	13782.957	1.00	2.26	9.183	10.1	100.7	NO		
3	3	PFBS	299.0 > 79.7	2836.958	1697.383	1.00	2.57	20.892	10.5	105.3	NO	2.817	NO
4	4	4:2 FTS	327.2>307.2	2749.694	1924.466	1.00	2.98	17.860	10.7	107.4	NO	1.816	NO
5	5	PFHxA	313 > 269	18033.393	8969.305	1.00	3.07	10.053	10.4	104.1	NO	15.304	NO
6	6	PFPeS	349.1>80.1	2384.896	1697.383	1.00	3.28	17.563	10.2	102.2	NO	1.598	NO
7	36	13C3-PFBA	216.1 > 171.8	7923.504	10450.431	1.00	1.27	9.477	12.9	103.2	NO		
8	37	13C3-PFPeA	266. > 221.8	13782.957	23277.363	1.00	2.27	7.401	13.0	103.7	NO		
9	38	13C3-PFBS	302. > 98.8	1697.383	3256.568	1.00	2.57	6.515	12.1	96.7	NO		
10	39	13C2-4:2 FTS	328.9>81.0	1924.466	3256.568	1.00	2.98	7.387	11.8	94.6	NO		
11	40	13C2-PFHxA	315 > 270	8969.305	23277.363	1.00	3.07	4.817	5.0	100.1	NO		
12	38	13C3-PFBS	302. > 98.8	1697.383	3256.568	1.00	2.57	6.515	12.1	96.7	NO		
13	-1												
14	10	6:2 FTS	427.1 > 407	3459.268	2246.360	1.00	4.15	19.249	10.3	102.8	NO	2.810	NO
15	7	PFHpA	363.0 > 318.9	13626.856	13133.147	1.00	3.69	12.970	10.2	102.4	NO	13.558	NO
16	8	L-PFHxS	398.9 > 79.6	2394.385	1584.860	1.00	3.84	18.885	10.4	104.5	NO	1.847	NO
17	11	L-PFOA	412.8 > 368.9	27172.313	24140.908	1.00	4.21	14.070	10.7	106.8	NO	3.634	NO
18	13	PFHpS	449 > 80.0	2736.593	3699.331	1.00	4.32	9.247	10.2	101.7	NO	1.737	NO
19	14	PFNA	463.0 > 418.8	21957.498	21486.502	1.00	4.64	12.774	10.0	100.2	NO	4.479	NO
20	43	13C2-6:2 FTS	428.9>80.9	2246.360	3524.015	1.00	4.15	7.968	11.8	94.7	NO		
21	41	13C4-PFHpA	367.2 > 321.8	13133.147	23277.363	1.00	3.68	7.053	12.5	100.3	NO		
22	42	18O2-PFHxS	403.0 > 102.6	1584.860	3256.568	1.00	3.84	6.083	12.1	96.9	NO		
23	44	13C2-PFOA	414.9 > 369.7	24140.908	27896.318	1.00	4.21	10.817	13.2	105.6	NO		
24	47	13C8-PFOS	507.0 > 79.9	3699.331	3524.015	1.00	4.73	13.122	12.3	98.3	NO		
25	45	13C5-PFNA	468.2 > 422.9	21486.502	22315.004	1.00	4.64	12.036	12.2	97.2	NO		
26	-1												
27	15	PFOSA	497.7 > 77.9	2008.797	2646.091	1.00	4.71	9.489	9.6	95.7	NO	45.945	YES
28	16	L-PFOS	498.9 > 79.9	3144.994	3699.331	1.00	4.73	10.627	9.7	97.1	NO	1.867	NO
29	18	PFDA	513 > 468.8	24536.666	22442.908	1.00	5.02	13.666	10.0	99.8	NO	5.856	NO
30	19	8:2 FTS	527 > 506.9	3437.862	2418.422	1.00	4.99	17.769	9.4	93.9	NO	2.203	NO
31	20	PFNS	549.1 > 80.1	2206.385	3699.331	1.00	5.08	7.455	9.8	98.0	NO	1.576	NO
32	21	L-MeFOSAA	570 > 419	7722.498	3719.050	1.00	5.17	25.956	10.2	101.6	NO	2.582	NO
33	46	13C8-PFOSA	506.1 > 77.7	2646.091	32329.488	1.00	4.71	1.023	12.5	100.2	NO		
34	47	13C8-PFOS	507.0 > 79.9	3699.331	3524.015	1.00	4.73	13.122	12.3	98.3	NO		
35	48	13C2-PFDA	515.1 > 469.9	22442.908	28121.088	1.00	5.02	9.976	13.0	103.9	NO		
36	49	13C2-8:2 FTS	528.7 > 80.9	2418.422	3524.015	1.00	4.99	8.578	11.9	95.3	NO		

CGH 2/20/19

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

	#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
37	47	13C8-PFOS	507.0 > 79.9	3699.331	3524.015	1.00	4.73	13.122	12.3	98.3	NO		
38	50	d3-N-MeFOSAA	573.3 > 419	3719.050	32329.488	1.00	5.17	1.438	13.0	104.4	NO		
39	-1												
40	23	L-EtFOSAA	584.1 > 419	6471.476	4910.780	1.00	5.33	16.473	9.6	96.1	NO	1.400	NO
41	27	PFDoA	612.9 > 569.0	25077.736	30790.232	1.00	5.63	10.181	10.5	105.1	NO	8.099	NO
42	26	PFDS	598.8 > 79.9	2974.861	3699.331	1.00	5.39	10.052	10.0	99.9	NO	1.649	NO
43	25	PFUdA	563.0 > 518.9	22310.432	29859.023	1.00	5.34	9.340	10.4	103.7	NO	10.622	NO
44	28	N-MeFOSA	512.1 > 168.9	4845.683	13375.062	1.00	5.79	54.344	53.5	107.0	NO	1.441	NO
45	29	PFTrDA	662.9 > 618.9	27086.807	30790.232	1.00	5.87	10.997	10.4	104.4	NO	23.081	NO
46	52	d5-N-EtFOSAA	589.3 > 419	4910.780	32329.488	1.00	5.33	1.899	13.1	104.9	NO		
47	53	13C2-PFDoA	614.7 > 569.7	30790.232	28121.088	1.00	5.62	13.686	11.6	93.2	NO		
48	47	13C8-PFOS	507.0 > 79.9	3699.331	3524.015	1.00	4.73	13.122	12.3	98.3	NO		
49	51	13C2-PFUdA	565 > 519.8	29859.023	32329.488	1.00	5.34	11.545	12.3	98.2	NO		
50	54	d3-N-MeFOSA	515.2 > 168.9	13375.062	32329.488	1.00	5.81	5.171	141.0	94.0	NO		
51	53	13C2-PFDoA	614.7 > 569.7	30790.232	28121.088	1.00	5.62	13.686	11.6	93.2	NO		
52	-1												
53	30	PFTeDA	713.0 > 669.0	25150.158	21280.779	1.00	6.09	14.773	10.4	104.3	NO	13.094	NO
54	31	N-EtFOSA	526.1 > 168.9	5458.023	18659.434	1.00	6.21	43.876	51.2	102.4	NO	1.533	NO
55	32	PFHxDA	813.1 > 768.6	16762.873	12815.934	1.00	6.43	6.540	9.4	93.7	NO	25.676	NO
56	33	PFODA	913.1 > 868.8	19544.938	12815.934	1.00	6.68	7.625	10.0	99.7	NO		
57	34	N-MeFOSE	616.1 > 58.9	3236.329	9786.241	1.00	6.39	49.605	50.6	101.2	NO		
58	35	N-EtFOSE	630.1 > 58.9	3848.672	9702.640	1.00	6.54	59.499	50.0	100.0	NO		
59	55	13C2-PFTeDA	715.1 > 669.7	21280.779	32329.488	1.00	6.09	8.228	11.8	94.5	NO		
60	56	d5-N-ETFOSA	531.1 > 168.9	18659.434	32329.488	1.00	6.22	7.215	142.8	95.2	NO		
61	57	13C2-PFHxDA	815 > 769.7	12815.934	32329.488	1.00	6.43	4.955	4.9	97.2	NO		
62	57	13C2-PFHxDA	815 > 769.7	12815.934	32329.488	1.00	6.43	4.955	4.9	97.2	NO		
63	58	d7-N-MeFOSE	623.1 > 58.9	9786.241	32329.488	1.00	6.38	3.784	141.3	94.2	NO		
64	59	d9-N-EtFOSE	639.2 > 58.8	9702.640	32329.488	1.00	6.53	3.751	146.0	97.4	NO		
65	-1												
66	60	13C4-PFBA	217. > 172	10450.431	10450.431	1.00	1.27	12.500	12.5	100.0	NO		
67	61	13C5-PFHxA	318 > 272.9	23277.363	23277.363	1.00	3.07	12.500	12.5	100.0	NO		
68	62	13C3-PFHxS	401.8 > 79.9	3256.568	3256.568	1.00	3.84	12.500	12.5	100.0	NO		
69	63	13C8-PFOA	420.9 > 376	27896.318	27896.318	1.00	4.21	12.500	12.5	100.0	NO		
70	64	13C9-PFNA	472.2 > 426.9	22315.004	22315.004	1.00	4.64	12.500	12.5	100.0	NO		
71	65	13C4-PFOS	503 > 79.9	3524.015	3524.015	1.00	4.73	12.500	12.5	100.0	NO		
72	66	13C6-PFDA	519.1 > 473.7	28121.088	28121.088	1.00	5.02	12.500	12.5	100.0	NO		

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

	#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
73	67	13C7-PFUdA	570.1 > 524.8	32329.488	32329.488	1.00	5.34	12.500	12.5	100.0	NO		

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, February 20, 2019 10:10:06 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:10:10 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Compound name: PFBA

	#	Name	ID	Acq.Date	Acq.Time
1	1	190219M2_1	IPA	19-Feb-19	16:39:36
2	2	190219M2_2	ST190219M2-1 PFC CS-2 19B1301	19-Feb-19	16:50:09
3	3	190219M2_3	ST190219M2-2 PFC CS-1 19B1302	19-Feb-19	17:00:42
4	4	190219M2_4	ST190219M2-3 PFC CS0 19B1303	19-Feb-19	17:11:21
5	5	190219M2_5	ST190219M2-4 PFC CS1 19B1304	19-Feb-19	17:21:53
6	6	190219M2_6	ST190219M2-5 PFC CS2 19B1305	19-Feb-19	17:32:31
7	7	190219M2_7	ST190219M2-6 PFC CS3 19B1306	19-Feb-19	17:43:04
8	8	190219M2_8	ST190219M2-7 PFC CS4 19B1307	19-Feb-19	17:53:43
9	9	190219M2_9	ST190219M2-8 PFC CS5 19B1308	19-Feb-19	18:04:16
10	10	190219M2_10	ST190219M2-9 PFC CS6 19B1309	19-Feb-19	18:14:54
11	11	190219M2_11	ST190219M2-10 PFC CS7 19B1310	19-Feb-19	18:26:12
12	12	190219M2_12	IPA	19-Feb-19	18:36:47
13	13	190219M2_13	ICV190219M2-1 PFC ICV 19B1311	19-Feb-19	18:47:25
14	14	190219M2_14	IPA	19-Feb-19	18:57:58
15	15	190219M2_15	B9B0084-BS1 OPR 0.25	19-Feb-19	19:08:36
16	16	190219M2_16	B9B0084-BLK1 Method Blank 0.25	19-Feb-19	19:19:14
17	17	190219M2_17	1900272-01 SFMW-04i 0.27486	19-Feb-19	19:29:47
18	18	190219M2_18	1900272-02 SFMW-04s 0.24856	19-Feb-19	19:40:25
19	19	190219M2_19	1900272-03 MW-03s 0.25227	19-Feb-19	19:50:57
20	20	190219M2_20	1900272-04 MW-03i 0.24666	19-Feb-19	20:01:35
21	21	190219M2_21	1900272-05 DUP-01 0.24313	19-Feb-19	20:12:09
22	22	190219M2_22	1900272-06 EB-01 0.24669	19-Feb-19	20:22:47
23	23	190219M2_23	1900272-07 FB-01 0.2486	19-Feb-19	20:33:19
24	24	190219M2_24	1900272-08 TB-01 0.25618	19-Feb-19	20:43:58
25	25	190219M2_25	B9B0077-BS1 OPR 0.25	19-Feb-19	20:54:30
26	26	190219M2_26	B9B0077-BLK1 Method Blank 0.25	19-Feb-19	21:05:09
27	27	190219M2_27	1900267-01 GW1902070825KER 0.25554	19-Feb-19	21:15:41
28	28	190219M2_28	1900267-02 GW1902070905KER 0.25556	19-Feb-19	21:26:19
29	29	190219M2_29	1900267-03 GW1902070945KER 0.24366	19-Feb-19	21:36:58
30	30	190219M2_30	1900267-04 GW1902071025KER 0.2615	19-Feb-19	21:47:30
31	31	190219M2_31	IPA	19-Feb-19	21:58:09
32	32	190219M2_32	ST190219M2-11 PFC CS3 19B1306	19-Feb-19	22:08:47

Dataset: Untitled

Last Altered: Wednesday, February 20, 2019 10:10:06 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:10:10 Pacific Standard Time

Compound name: PFBA

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33	33	190219M2_33	1900267-05 GW1902071105KER 0.25297	19-Feb-19	22:19:19
34	34	190219M2_34	1900267-06 GW1902071205KER 0.26503	19-Feb-19	22:29:58
35	35	190219M2_35	1900267-07 GW1902071240KER 0.24854	19-Feb-19	22:40:31
36	36	190219M2_36	1900267-08 GW1902071315KER 0.25014	19-Feb-19	22:51:09
37	37	190219M2_37	1900267-09 GW1902070840GSC 0.24874	19-Feb-19	23:01:41
38	38	190219M2_38	1900267-10 GW1902070915GSC 0.25113	19-Feb-19	23:12:20
39	39	190219M2_39	1900267-11 GW1902070955GSC-FD 0.25619	19-Feb-19	23:22:52
40	40	190219M2_40	1900267-12 GW1902070950GSC 0.25426	19-Feb-19	23:33:31
41	41	190219M2_41	1900267-13 GW1902071040GSC 0.24495	19-Feb-19	23:44:09
42	42	190219M2_42	1900267-14 GW1902071215GSC 0.25579	19-Feb-19	23:54:42
43	43	190219M2_43	IPA	20-Feb-19	00:05:21
44	44	190219M2_44	ST190219M2-12 PFC CS3 19B1306	20-Feb-19	00:15:54
45	45	190219M2_45	1900267-15 GW1902071255GSC 0.25953	20-Feb-19	00:26:24
46	46	190219M2_46	B9B0085-BS1 OPR 0.25	20-Feb-19	00:37:02
47	47	190219M2_47	B9B0085-BLK1 Method Blank 0.25	20-Feb-19	00:47:36
48	48	190219M2_48	1900251-01 Leachate 1 0.24772	20-Feb-19	00:58:14
49	49	190219M2_49	IPA	20-Feb-19	01:08:47
50	50	190219M2_50	IPA	20-Feb-19	01:19:25
51	51	190219M2_51	IPA	20-Feb-19	01:29:58
52	52	190219M2_52	ST190219M2-13 PFC CS3 19B1306	20-Feb-19	01:40:37
53	53	190219M2_53	B9B0095-BLK1 Method Blank 0.125	20-Feb-19	01:51:10
54	54	190219M2_54	B9B0095-BS1 OPR 0.125	20-Feb-19	02:01:48
55	55	190219M2_55	B9B0095-BS2 OPR 0.125	20-Feb-19	02:12:21
56	56	190219M2_56	B9B0095-BS3 OPR 0.125	20-Feb-19	02:22:59
57	57	190219M2_57	B9B0095-BS4 OPR 0.125	20-Feb-19	02:33:32
58	58	190219M2_58	XAD QC	20-Feb-19	02:44:10

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
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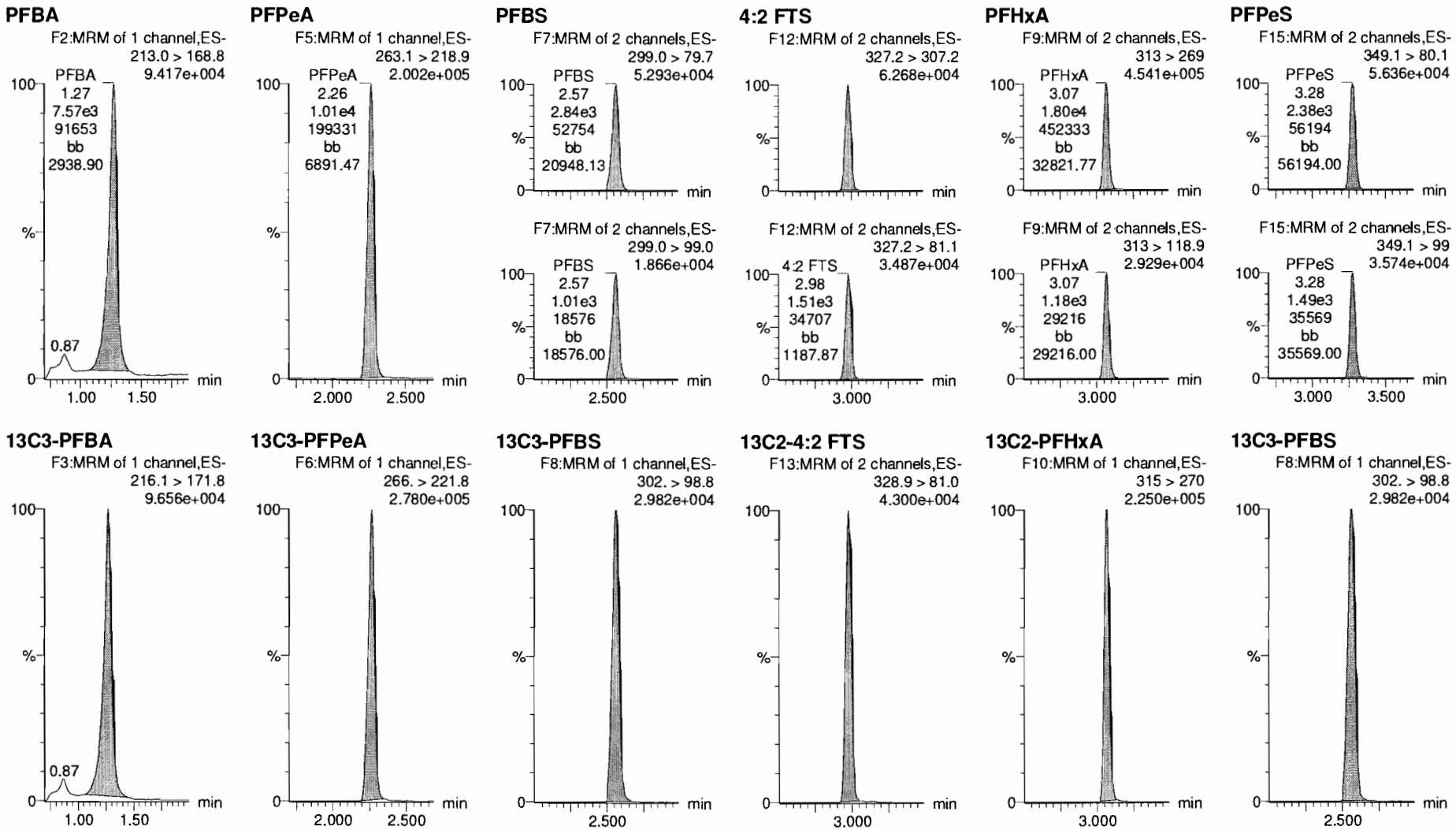
Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

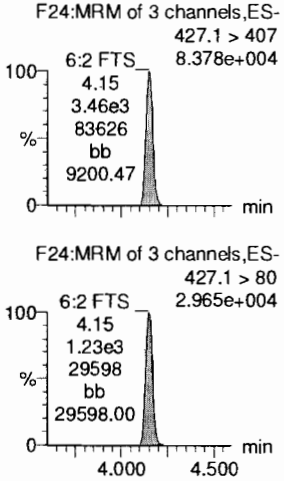


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

6:2 FTS



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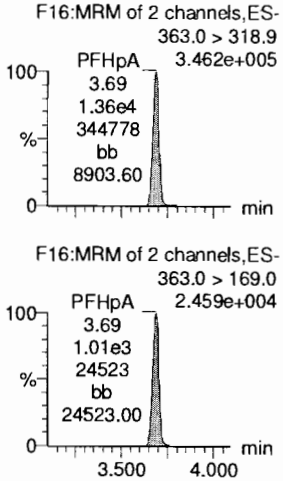

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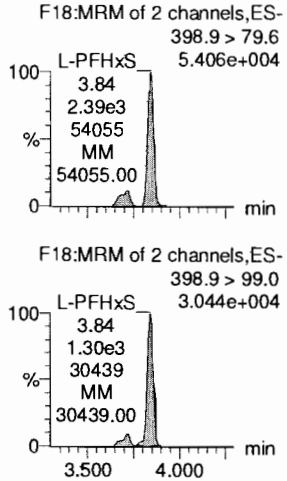

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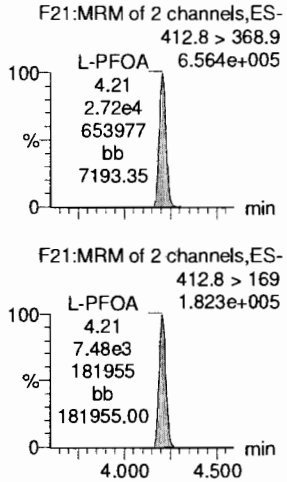

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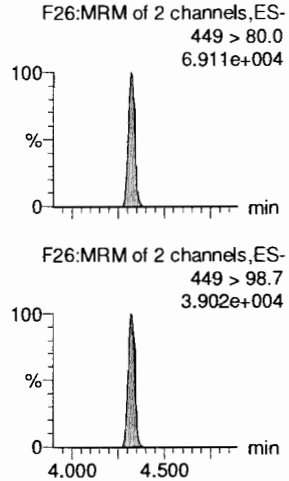

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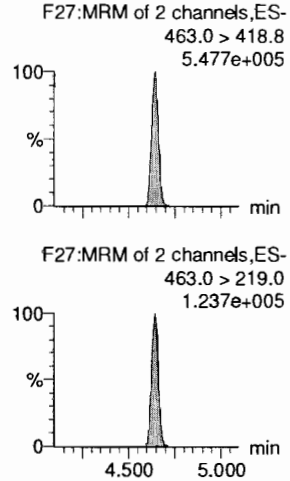
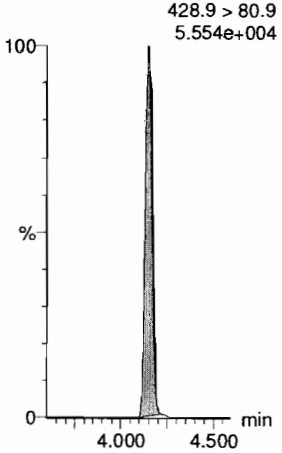
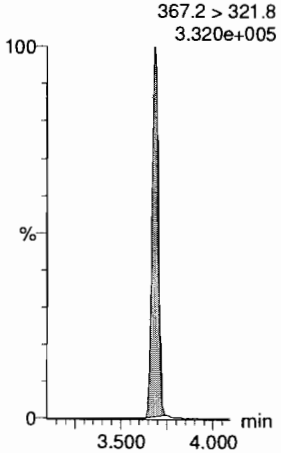


13C2-6:2 FTS



13C4-PFHpA



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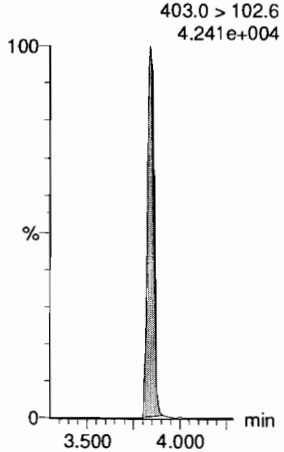

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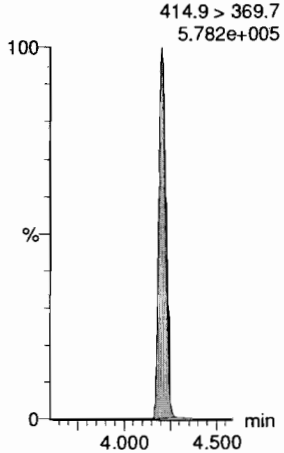
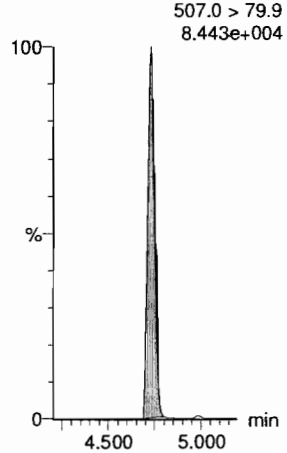


13C8-PFOS



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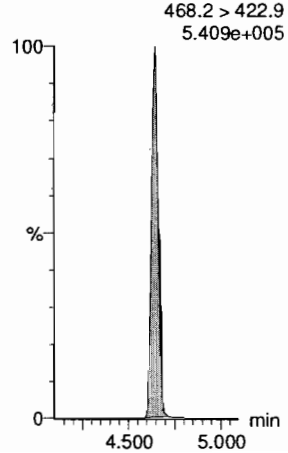
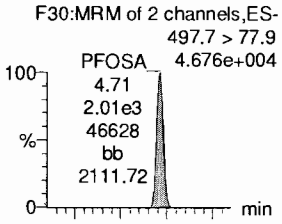


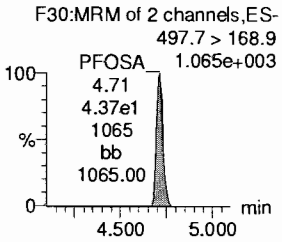
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

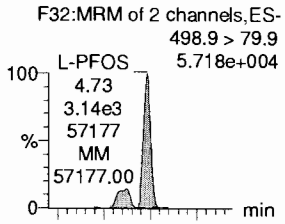
Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

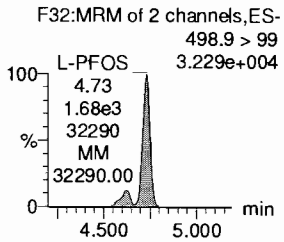
PFOSA





L-PFOS





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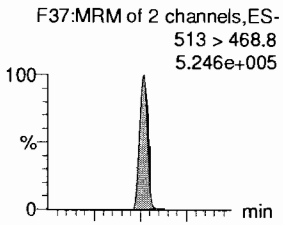
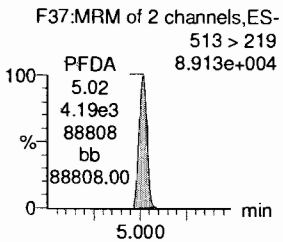
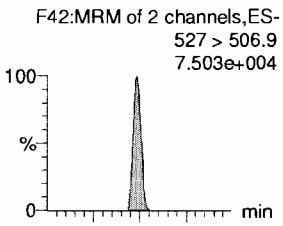
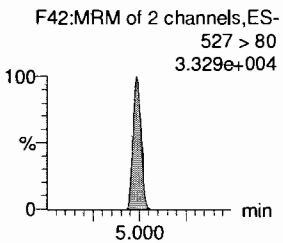


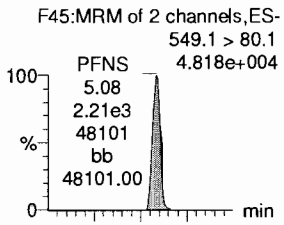


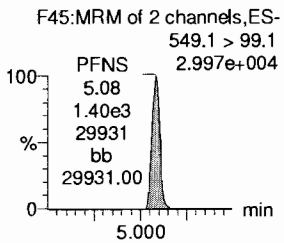
8:2 FTS





PFNS





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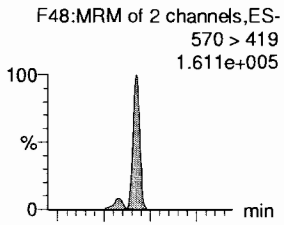

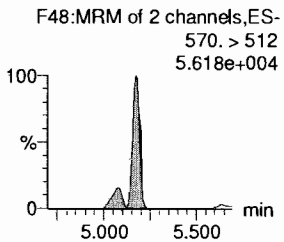

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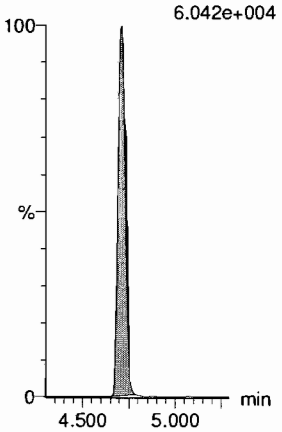
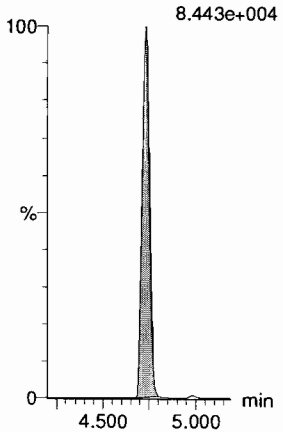


13C8-PFOS



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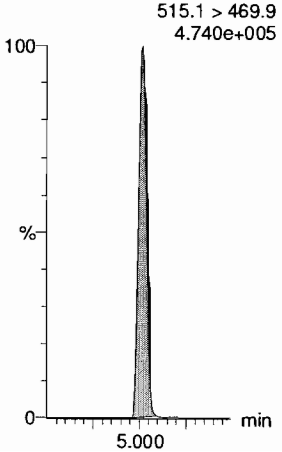

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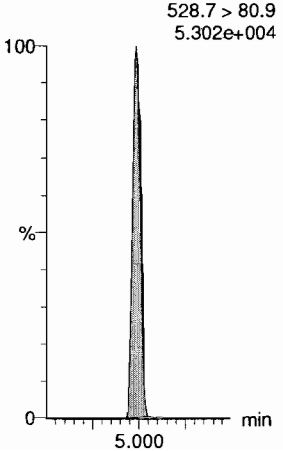

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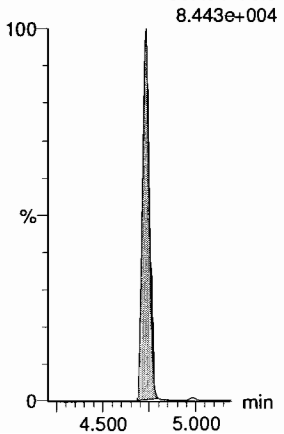

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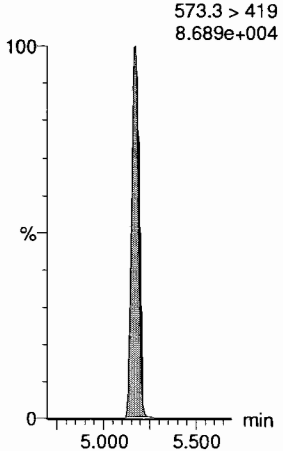

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Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

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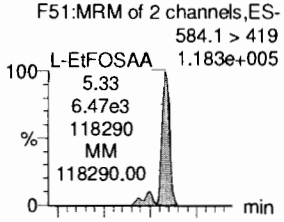

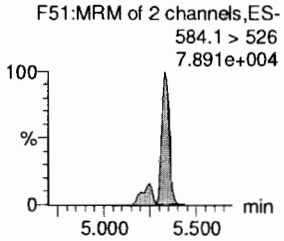

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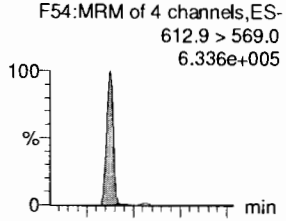

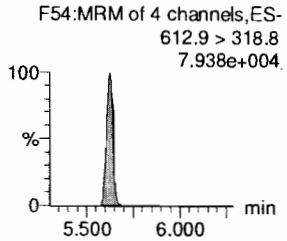

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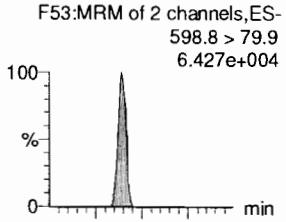

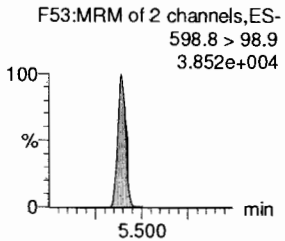

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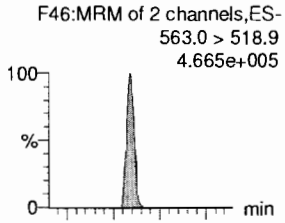

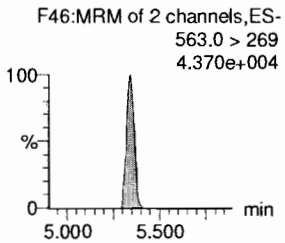

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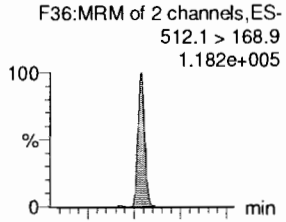

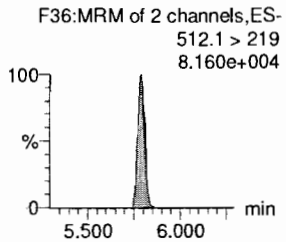

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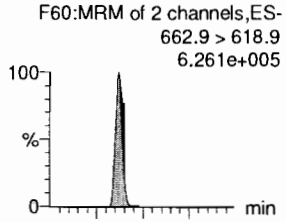
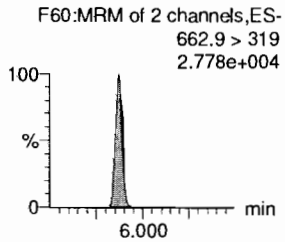
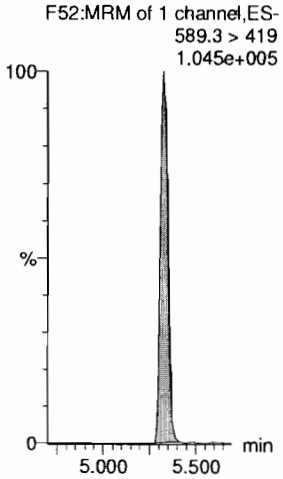
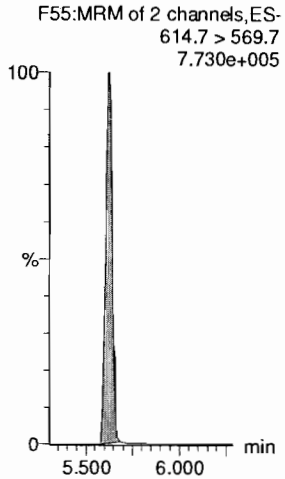




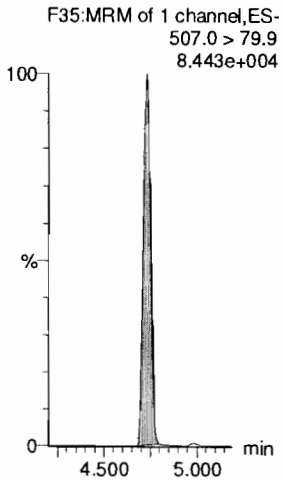
d5-N-EtFOSAA



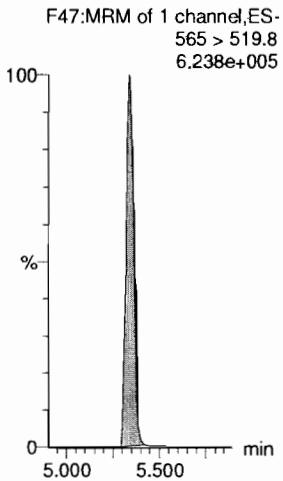
13C2-PFDoA



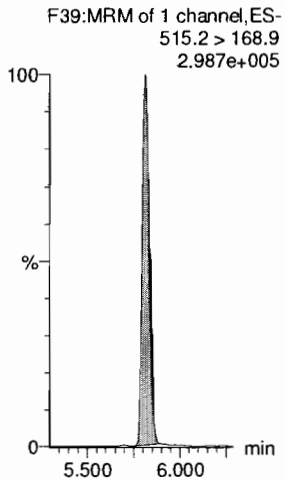
13C8-PFOS



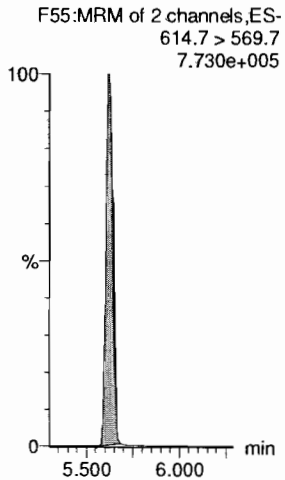
13C2-PFUdA



d3-N-MeFOSA



13C2-PFDoA



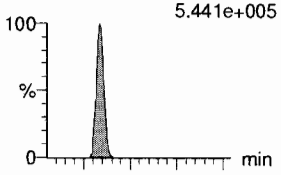
Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

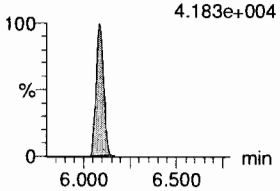
Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

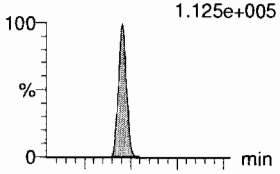
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
5.441e+005



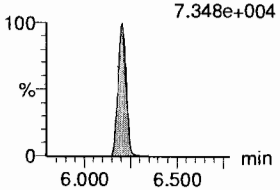
F61:MRM of 2 channels,ES-
713. > 369.0
4.183e+004



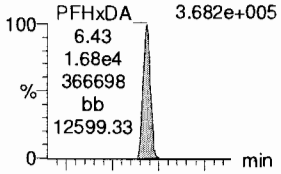
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
1.125e+005



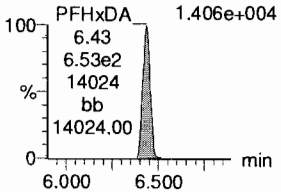
F41:MRM of 2 channels,ES-
526.1 > 219
7.348e+004



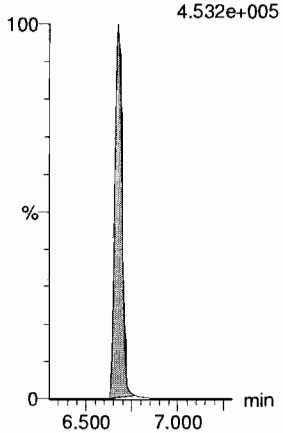
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
3.682e+005



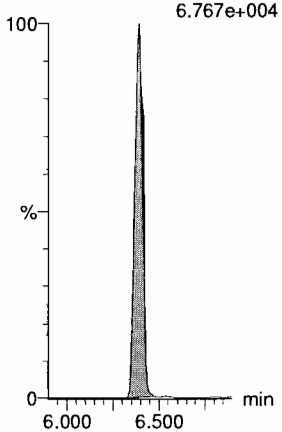
F63:MRM of 2 channels,ES-
813.1 > 219
1.406e+004



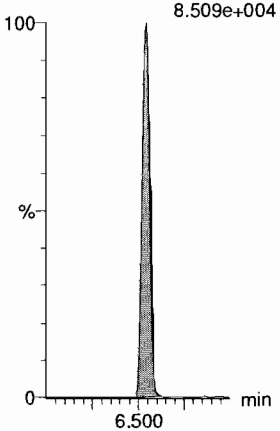
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
4.532e+005



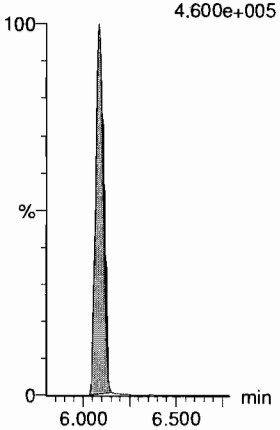
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
6.767e+004



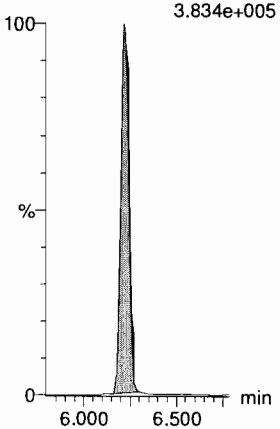
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
8.509e+004



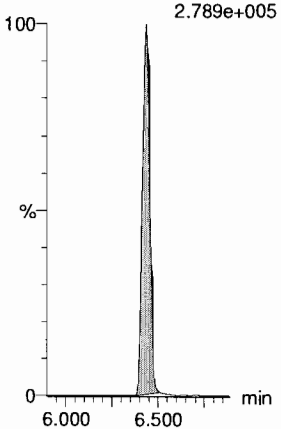
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
4.600e+005



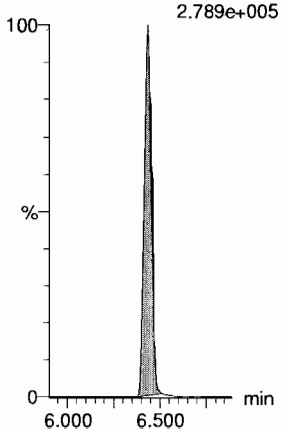
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.834e+005



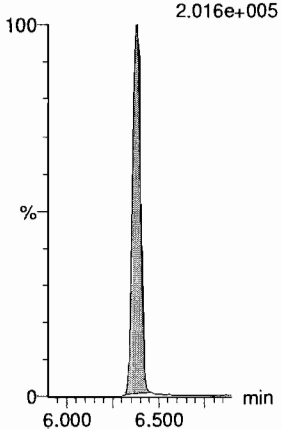
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.789e+005



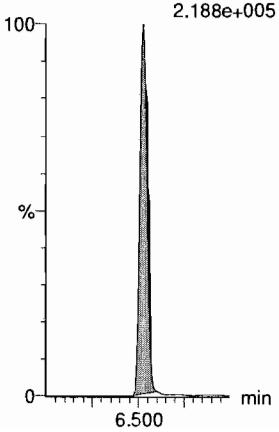
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.789e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
2.016e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
2.188e+005

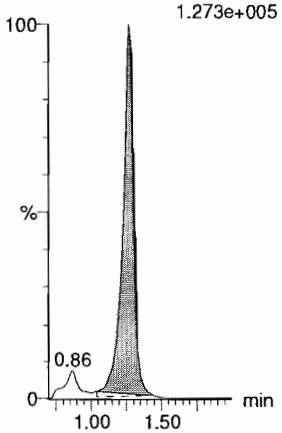


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-32.qld

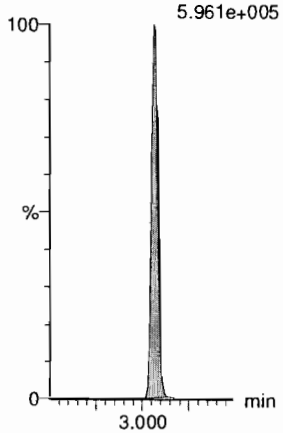
Last Altered: Wednesday, February 20, 2019 10:04:32 Pacific Standard Time
Printed: Wednesday, February 20, 2019 10:05:18 Pacific Standard Time

Name: 190219M2_32, Date: 19-Feb-2019, Time: 22:08:47, ID: ST190219M2-11 PFC CS3 19B1306, Description: PFC CS3 19B1306

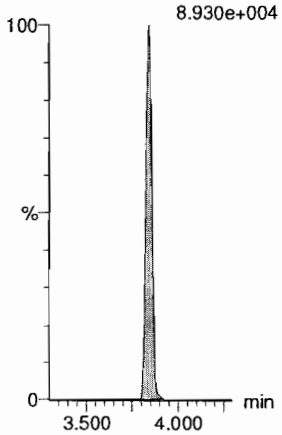
13C4-PFBA



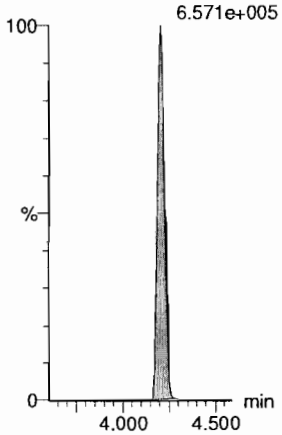
13C5-PFHxA



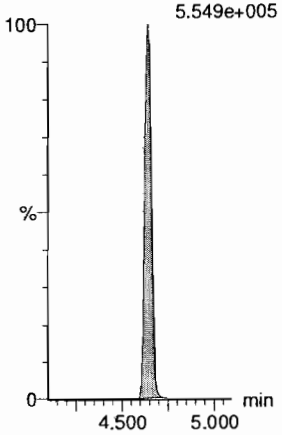
13C3-PFHxS



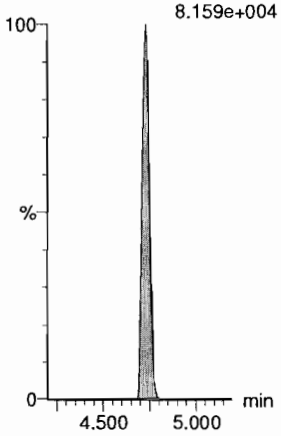
13C8-PFOA



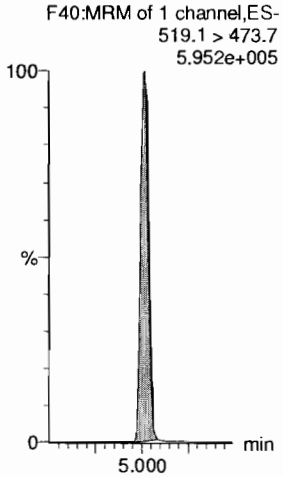
13C9-PFNA



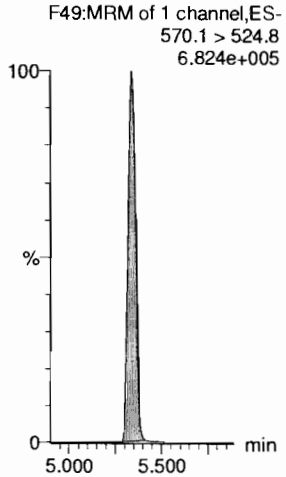
13C4-PFOS



13C6-PFDA



13C7-PFUdA



INITIAL CALIBRATION

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

No points dropped

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:26:42 Pacific Standard Time

JM 2/20/19

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Compound name: PFBA
Correlation coefficient: r = 0.999904, r^2 = 0.999808
Calibration curve: 1.21322 * x + -0.102256
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	1.26	149.132	8020.434	0.232	0.3	10.3	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	1.25	291.999	7477.228	0.488	0.5	-2.7	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	1.26	590.998	7264.031	1.017	0.9	-7.7	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	1.26	1377.370	7384.805	2.331	2.0	0.3	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	1.26	3439.536	7685.704	5.594	4.7	-6.1	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	1.26	7668.713	7796.209	12.296	10.2	2.2	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	1.26	36752.676	7462.721	61.560	50.8	1.7	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	1.26	75235.453	7602.358	123.704	102.0	2.0	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	1.27	183488.203	7485.384	306.411	252.6	1.1	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	1.29	369865.438	7705.638	599.992	494.6	-1.1	NO	1.000	NO	bb

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.999983
Calibration curve: -1.07701e-005 * x^2 + 0.91361 * x + -0.0195578
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	2.26	247.426	13754.154	0.225	0.3	7.0	NO	1.000	NO	MM
2	2	190219M2_3	Standard	0.500	2.25	438.220	12653.266	0.433	0.5	-0.9	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	2.26	845.754	12040.819	0.878	1.0	-1.8	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	2.26	1774.084	12588.298	1.762	1.9	-2.5	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	2.26	4346.320	12360.699	4.395	4.8	-3.3	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	2.26	9525.946	12933.955	9.206	10.1	1.0	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	2.26	45808.500	12430.826	46.063	50.5	0.9	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	2.26	92278.977	12694.034	90.868	99.6	-0.4	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	2.26	217547.453	11940.226	227.746	250.0	0.0	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	2.27	416539.688	11465.957	454.105	500.0	0.0	NO	1.000	NO	bb

CAH 2/20/19

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:26:42 Pacific Standard Time

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999712
Calibration curve: 0.000155062 * x^2 + 1.9813 * x + 0.0126994
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	2.55	77.449	1753.066	0.552	0.3	8.9	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	2.55	128.463	1615.393	0.994	0.5	-0.9	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	2.56	237.762	1546.240	1.922	1.0	-3.6	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	2.55	539.481	1719.807	3.921	2.0	-1.4	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	2.56	1239.643	1599.203	9.690	4.9	-2.4	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	2.56	2700.189	1673.378	20.170	10.2	1.7	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	2.56	12814.927	1626.601	98.479	49.5	-1.0	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	2.56	25001.910	1616.783	193.300	96.8	-3.2	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	2.56	58131.906	1405.421	517.033	255.8	2.3	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	2.57	104310.070	1272.325	1024.798	497.8	-0.4	NO	1.000	NO	bb

Compound name: 4:2 FTS
Coefficient of Determination: R^2 = 0.999814
Calibration curve: -0.000145355 * x^2 + 1.6692 * x + -0.0458371
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	2.98	59.765	2110.143	0.354	0.2	-4.2	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	2.97	114.400	1883.538	0.759	0.5	-3.5	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	2.98	243.570	1847.328	1.648	1.0	1.5	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	2.98	507.573	1929.415	3.288	2.0	-0.1	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	2.98	1204.649	1876.756	8.023	4.8	-3.3	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	2.98	2799.502	1916.998	18.254	11.0	9.7	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	2.98	12183.392	1800.744	84.572	50.9	1.8	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	2.98	23713.314	1829.023	162.063	98.0	-2.0	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	2.98	53632.426	1642.275	408.217	250.0	0.0	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	2.97	95480.117	1494.335	798.684	500.3	0.1	NO	1.000	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:26:42 Pacific Standard Time

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.999947
Calibration curve: -0.000133811 * x^2 + 0.967634 * x + -0.00705593
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	3.06	432.530	9235.790	0.234	0.2	-0.3	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	3.06	834.716	8481.008	0.492	0.5	3.2	NO	1.000	NO	bd
3	3	190219M2_4	Standard	1.000	3.06	1542.426	8271.603	0.932	1.0	-2.9	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	3.06	3365.429	8630.447	1.950	2.0	1.1	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	3.06	7870.114	8550.917	4.602	4.8	-4.7	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	3.06	16817.799	8582.753	9.797	10.1	1.5	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	3.06	80991.000	8487.010	47.715	49.7	-0.7	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	3.06	159600.688	8436.032	94.595	99.1	-0.9	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	3.06	374446.688	7946.858	235.594	252.3	0.9	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	3.06	680826.625	7572.721	449.526	499.0	-0.2	NO	1.000	NO	bb

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.999843
Calibration curve: 2.47661e-005 * x^2 + 1.72235 * x + -0.0438406
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	3.26	59.805	1753.066	0.426	0.3	9.2	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	3.27	99.776	1615.393	0.772	0.5	-5.3	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	3.27	210.909	1546.240	1.705	1.0	1.5	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	3.27	444.581	1719.807	3.231	1.9	-4.9	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	3.27	1092.492	1599.203	8.539	5.0	-0.3	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	3.27	2342.478	1673.378	17.498	10.2	1.8	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	3.27	11041.726	1626.601	84.853	49.3	-1.5	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	3.27	21862.908	1616.783	169.031	98.0	-2.0	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	3.27	49424.363	1405.421	439.587	254.3	1.7	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	3.27	87981.609	1272.325	864.378	498.3	-0.3	NO	1.000	NO	bb

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Compound name: PFHpA
Correlation coefficient: r = 0.999658, r^2 = 0.999317
Calibration curve: 1.26816 * x + -0.0148205
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	3.68	363.571	13467.679	0.337	0.3	11.1	NO	0.999	NO	bb
2	2	190219M2_3	Standard	0.500	3.68	615.885	12858.300	0.599	0.5	-3.2	NO	0.999	NO	bb
3	3	190219M2_4	Standard	1.000	3.68	1165.379	12079.992	1.206	1.0	-3.7	NO	0.999	NO	bb
4	4	190219M2_5	Standard	2.000	3.68	2598.276	13069.106	2.485	2.0	-1.4	NO	0.999	NO	bb
5	5	190219M2_6	Standard	5.000	3.68	6028.152	12598.277	5.981	4.7	-5.4	NO	0.999	NO	bb
6	6	190219M2_7	Standard	10.000	3.68	13435.146	13052.938	12.866	10.2	1.6	NO	0.999	NO	bb
7	7	190219M2_8	Standard	50.000	3.68	62723.402	12309.674	63.693	50.2	0.5	NO	0.999	NO	bb
8	8	190219M2_9	Standard	100.000	3.68	122353.445	12266.911	124.678	98.3	-1.7	NO	0.999	NO	bb
9	9	190219M2_10	Standard	250.000	3.68	293816.156	11129.488	329.997	260.2	4.1	NO	0.999	NO	bb
10	10	190219M2_11	Standard	500.000	3.68	517360.250	10378.324	623.126	491.4	-1.7	NO	0.999	NO	bb

Compound name: L-PFHxS
Correlation coefficient: r = 0.999855, r^2 = 0.999710
Calibration curve: 1.81363 * x + -0.0614848
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	3.84	56.278	1532.116	0.459	0.3	14.8	NO	1.000	NO	MM
2	2	190219M2_3	Standard	0.500	3.83	90.810	1452.658	0.781	0.5	-7.0	NO	1.000	NO	MM
3	3	190219M2_4	Standard	1.000	3.84	165.477	1429.590	1.447	0.8	-16.8	NO	1.000	NO	MM
4	4	190219M2_5	Standard	2.000	3.84	387.918	1559.935	3.108	1.7	-12.6	NO	1.000	NO	MM
5	5	190219M2_6	Standard	5.000	3.84	1121.885	1446.830	9.693	5.4	7.6	NO	1.000	NO	MM
6	6	190219M2_7	Standard	10.000	3.84	2243.851	1540.813	18.203	10.1	0.7	NO	1.000	NO	MM
7	7	190219M2_8	Standard	50.000	3.84	10975.145	1509.025	90.913	50.2	0.3	NO	1.000	NO	MM
8	8	190219M2_9	Standard	100.000	3.84	21999.654	1505.099	182.709	100.8	0.8	NO	1.000	NO	MM
9	9	190219M2_10	Standard	250.000	3.84	51576.313	1453.524	443.545	244.6	-2.2	NO	1.000	NO	MM
10	10	190219M2_11	Standard	500.000	3.84	94178.008	1286.872	914.796	504.4	0.9	NO	1.000	NO	MM

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Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.999882
Calibration curve: -0.00058997 * x^2 + 1.88665 * x + -0.0918609
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.14	67.096	2283.540	0.367	0.2	-2.6	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	4.14	119.989	2093.163	0.717	0.4	-14.3	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	4.15	281.309	2045.220	1.719	1.0	-4.0	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	4.14	672.612	2206.609	3.810	2.1	3.5	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	4.15	1558.061	2133.387	9.129	4.9	-2.1	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	4.15	3291.160	2179.425	18.876	10.1	0.9	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	4.15	15176.282	2094.606	90.568	48.8	-2.4	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	4.15	30027.230	2018.631	185.938	101.8	1.8	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	4.15	69049.930	1990.192	433.689	249.4	-0.3	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	4.15	121071.227	1901.699	795.810	500.1	0.0	NO	1.000	NO	bb

Compound name: L-PFOA
Correlation coefficient: r = 0.999539, r^2 = 0.999078
Calibration curve: 1.31643 * x + 0.00755267
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.20	722.037	24030.457	0.376	0.3	11.8	NO	0.999	NO	db
2	2	190219M2_3	Standard	0.500	4.20	1314.731	22939.324	0.716	0.5	7.7	NO	0.999	NO	bb
3	3	190219M2_4	Standard	1.000	4.20	2140.792	21979.750	1.217	0.9	-8.1	NO	0.999	NO	bb
4	4	190219M2_5	Standard	2.000	4.20	4695.563	23343.287	2.514	1.9	-4.8	NO	0.999	NO	bb
5	5	190219M2_6	Standard	5.000	4.21	11561.900	22903.086	6.310	4.8	-4.2	NO	0.999	NO	bb
6	6	190219M2_7	Standard	10.000	4.21	24896.596	23899.805	13.021	9.9	-1.1	NO	0.999	NO	bb
7	7	190219M2_8	Standard	50.000	4.21	115014.008	22355.043	64.311	48.8	-2.3	NO	0.999	NO	bb
8	8	190219M2_9	Standard	100.000	4.21	235809.016	22093.109	133.418	101.3	1.3	NO	0.999	NO	bb
9	9	190219M2_10	Standard	250.000	4.21	555516.625	20180.434	344.094	261.4	4.6	NO	0.999	NO	bb
10	10	190219M2_11	Standard	500.000	4.20	1004212.125	19504.443	643.579	488.9	-2.2	NO	0.999	NO	bb

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Compound name: PFHpS
Coefficient of Determination: R^2 = 0.999794
Calibration curve: -1.65212e-005 * x^2 + 0.910146 * x + -0.0078847
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.32	62.268	3312.597	0.235	0.3	6.7	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	4.32	127.635	3519.427	0.453	0.5	1.3	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	4.32	227.611	3120.159	0.912	1.0	1.1	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	4.32	497.430	3521.426	1.766	1.9	-2.6	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	4.32	1090.409	3514.497	3.878	4.3	-14.6	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	4.32	2687.184	3436.796	9.774	10.7	7.5	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	4.32	12633.806	3426.939	46.083	50.7	1.4	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	4.32	24746.035	3438.093	89.970	99.0	-1.0	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	4.32	58206.957	3208.393	226.776	250.3	0.1	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	4.32	101688.164	2819.033	450.900	500.0	-0.0	NO	1.000	NO	bb

Compound name: PFNA
Coefficient of Determination: R^2 = 0.999870
Calibration curve: -9.88525e-005 * x^2 + 1.28097 * x + -0.0474186
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.64	542.638	21088.193	0.322	0.3	15.2	NO	1.000	NO	db
2	2	190219M2_3	Standard	0.500	4.64	968.108	20805.367	0.582	0.5	-1.8	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	4.64	1927.015	20119.934	1.197	1.0	-2.8	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	4.64	4063.694	21015.273	2.417	1.9	-3.8	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	4.64	9588.037	20633.699	5.808	4.6	-8.5	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	4.64	21583.605	20591.146	13.102	10.3	2.7	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	4.64	102288.266	20236.846	63.182	49.5	-0.9	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	4.64	200298.609	19932.787	125.609	98.8	-1.2	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	4.64	462095.906	18166.471	317.959	253.2	1.3	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	4.64	853052.875	17363.801	614.103	498.6	-0.3	NO	1.000	NO	bb

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Compound name: PFOSA
Coefficient of Determination: R^2 = 0.999907
Calibration curve: 2.08895e-005 * x^2 + 0.997392 * x + -0.0532758
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.71	30.652	2440.508	0.157	0.2	-15.7	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	4.71	95.619	2437.028	0.490	0.5	9.0	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	4.71	198.975	2315.916	1.074	1.1	13.0	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	4.71	343.423	2510.511	1.710	1.8	-11.6	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	4.71	988.576	2500.345	4.942	5.0	0.2	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	4.71	2078.166	2489.488	10.435	10.5	5.1	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	4.71	9630.881	2405.587	50.044	50.2	0.4	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	4.71	19274.416	2414.573	99.782	99.9	-0.1	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	4.71	47173.887	2362.133	249.636	249.0	-0.4	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	4.71	86628.133	2147.056	504.343	500.5	0.1	NO	1.000	NO	bb

Compound name: L-PFOS
Correlation coefficient: r = 0.999273, r^2 = 0.998547
Calibration curve: 1.09853 * x + -0.0356469
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.72	71.738	3312.597	0.271	0.3	11.5	NO	0.999	NO	MM
2	2	190219M2_3	Standard	0.500	4.73	135.087	3519.427	0.480	0.5	-6.2	NO	0.999	NO	MM
3	3	190219M2_4	Standard	1.000	4.72	273.619	3120.159	1.096	1.0	3.0	NO	0.999	NO	MM
4	4	190219M2_5	Standard	2.000	4.73	600.035	3521.426	2.130	2.0	-1.4	NO	0.999	NO	MM
5	5	190219M2_6	Standard	5.000	4.73	1346.914	3514.497	4.791	4.4	-12.1	NO	0.999	NO	MM
6	6	190219M2_7	Standard	10.000	4.73	3064.704	3436.796	11.147	10.2	1.8	NO	0.999	NO	MM
7	7	190219M2_8	Standard	50.000	4.73	14247.883	3426.939	51.970	47.3	-5.3	NO	0.999	NO	MM
8	8	190219M2_9	Standard	100.000	4.73	29098.559	3438.093	105.795	96.3	-3.7	NO	0.999	NO	MM
9	9	190219M2_10	Standard	250.000	4.73	67659.922	3208.393	263.605	240.0	-4.0	NO	0.999	NO	MM
10	10	190219M2_11	Standard	500.000	4.73	128013.508	2819.033	567.630	516.8	3.4	NO	0.999	NO	MM

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Compound name: PFDA
Coefficient of Determination: R^2 = 0.999837
Calibration curve: -0.000171782 * x^2 + 1.36742 * x + 0.0333375
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.01	594.782	21970.746	0.338	0.2	-10.8	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	5.01	1327.474	21050.510	0.788	0.6	10.4	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	5.01	2102.125	19227.809	1.367	1.0	-2.5	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	5.01	4780.996	22128.697	2.701	2.0	-2.4	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	5.01	11292.598	19933.990	7.081	5.2	3.1	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	5.02	23994.836	22013.189	13.625	10.0	-0.5	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	5.02	111179.586	19655.838	70.704	52.0	4.0	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	5.02	225877.484	21011.467	134.378	99.5	-0.5	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	5.01	492985.563	18835.627	327.163	246.9	-1.2	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	5.01	937895.063	18242.537	642.657	501.6	0.3	NO	1.000	NO	bb

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.998729
Calibration curve: -0.00105947 * x^2 + 1.91181 * x + -0.0807107
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	4.98	87.713	2426.380	0.452	0.3	11.4	NO	0.999	NO	bb
2	2	190219M2_3	Standard	0.500	4.98	140.241	2369.474	0.740	0.4	-14.1	NO	0.999	NO	bb
3	3	190219M2_4	Standard	1.000	4.98	359.257	2224.548	2.019	1.1	9.9	NO	0.999	NO	bb
4	4	190219M2_5	Standard	2.000	4.98	639.849	2331.585	3.430	1.8	-8.1	NO	0.999	NO	bb
5	5	190219M2_6	Standard	5.000	4.99	1651.648	2362.713	8.738	4.6	-7.5	NO	0.999	NO	bb
6	6	190219M2_7	Standard	10.000	4.99	3572.524	2245.467	19.887	10.5	5.1	NO	0.999	NO	bb
7	7	190219M2_8	Standard	50.000	4.99	16507.078	2195.041	94.002	50.6	1.3	NO	0.999	NO	bb
8	8	190219M2_9	Standard	100.000	4.99	31056.934	2038.123	190.475	105.9	5.9	NO	0.999	NO	bb
9	9	190219M2_10	Standard	250.000	4.99	66638.070	2116.364	393.588	237.1	-5.2	NO	0.999	NO	bb
10	10	190219M2_11	Standard	500.000	4.98	116868.734	2093.307	697.871	508.2	1.6	NO	0.999	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

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Compound name: PFNS
Coefficient of Determination: R^2 = 0.999541
Calibration curve: 2.66918e-005 * x^2 + 0.766203 * x + -0.0543765
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.08	31.400	3312.597	0.118	0.2	-9.8	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	5.08	89.486	3519.427	0.318	0.5	-2.8	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	5.08	208.324	3120.159	0.835	1.2	16.0	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	5.08	381.916	3521.426	1.356	1.8	-8.0	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	5.08	1028.808	3514.497	3.659	4.8	-3.1	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	5.08	2167.938	3436.796	7.885	10.4	3.6	NO	1.000	NO	bd
7	7	190219M2_8	Standard	50.000	5.08	10993.545	3426.939	40.100	52.3	4.6	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	5.08	21497.488	3438.093	78.159	101.7	1.7	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	5.08	48150.836	3208.393	187.597	242.9	-2.9	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	5.08	88417.711	2819.033	392.057	502.9	0.6	NO	1.000	NO	bb

Compound name: L-MeFOSAA
Correlation coefficient: r = 0.998941, r^2 = 0.997883
Calibration curve: 2.55635 * x + -0.0283726
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.17	142.225	3299.325	0.539	0.2	-11.2	NO	0.998	NO	MM
2	2	190219M2_3	Standard	0.500	5.17	283.864	3308.612	1.072	0.4	-13.9	NO	0.998	NO	MM
3	3	190219M2_4	Standard	1.000	5.17	583.224	2977.464	2.448	1.0	-3.1	NO	0.998	NO	MM
4	4	190219M2_5	Standard	2.000	5.17	1366.848	3356.390	5.090	2.0	0.1	NO	0.998	NO	MM
5	5	190219M2_6	Standard	5.000	5.17	3371.899	3335.833	12.635	5.0	-0.9	NO	0.998	NO	MM
6	6	190219M2_7	Standard	10.000	5.17	7567.614	3265.710	28.966	11.3	13.4	NO	0.998	NO	MM
7	7	190219M2_8	Standard	50.000	5.17	37042.699	3148.095	147.084	57.5	15.1	NO	0.998	NO	MM
8	8	190219M2_9	Standard	100.000	5.17	71280.828	3321.323	268.270	105.0	5.0	NO	0.998	NO	MM
9	9	190219M2_10	Standard	250.000	5.17	164594.359	3332.808	617.326	241.5	-3.4	NO	0.998	NO	MM
10	10	190219M2_11	Standard	500.000	5.17	304768.281	3011.708	1264.931	494.8	-1.0	NO	0.998	NO	MM

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Compound name: L-EtFOSAA
Correlation coefficient: r = 0.999796, r^2 = 0.999591
Calibration curve: 1.72448 * x + -0.0957261
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.33	126.062	4834.425	0.326	0.2	-2.2	NO	1.000	NO	MM
2	2	190219M2_3	Standard	0.500	5.33	295.468	4670.424	0.791	0.5	2.8	NO	1.000	NO	MM
3	3	190219M2_4	Standard	1.000	5.33	616.581	4326.765	1.781	1.1	8.8	NO	1.000	NO	MM
4	4	190219M2_5	Standard	2.000	5.33	1223.129	4425.761	3.455	2.1	2.9	NO	1.000	NO	MM
5	5	190219M2_6	Standard	5.000	5.33	2751.240	4534.927	7.583	4.5	-10.9	NO	1.000	NO	MM
6	6	190219M2_7	Standard	10.000	5.33	6179.354	4757.903	16.234	9.5	-5.3	NO	1.000	NO	MM
7	7	190219M2_8	Standard	50.000	5.33	30151.826	4375.255	86.143	50.0	0.0	NO	1.000	NO	MM
8	8	190219M2_9	Standard	100.000	5.33	57616.852	4034.311	178.521	103.6	3.6	NO	1.000	NO	MM
9	9	190219M2_10	Standard	250.000	5.33	129434.406	3696.702	437.669	253.9	1.5	NO	1.000	NO	MM
10	10	190219M2_11	Standard	500.000	5.33	220079.469	3233.028	850.903	493.5	-1.3	NO	1.000	NO	MM

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Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Compound name: PFUdA
Coefficient of Determination: R^2 = 0.999864
Calibration curve: -8.93727e-005 * x^2 + 0.900888 * x + 0.0107343
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.34	538.227	29114.768	0.231	0.2	-2.2	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	5.34	995.252	28936.742	0.430	0.5	-6.9	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	5.34	1974.704	27477.852	0.898	1.0	-1.5	NO	1.000	NO	bd
4	4	190219M2_5	Standard	2.000	5.34	4355.102	28650.039	1.900	2.1	4.9	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	5.34	10197.313	29206.324	4.364	4.8	-3.3	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	5.34	23331.354	29647.043	9.837	10.9	9.2	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	5.34	102227.719	28223.229	45.276	50.5	1.0	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	5.34	196972.359	27855.852	88.389	99.1	-0.9	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	5.34	451023.375	25772.674	218.751	249.0	-0.4	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	5.34	778164.875	22691.619	428.663	500.7	0.1	NO	1.000	NO	bb

Compound name: PFDS
Coefficient of Determination: R^2 = 0.999726
Calibration curve: 4.11594e-005 * x^2 + 1.00001 * x + 0.0552739
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.38	85.651	3312.597	0.323	0.3	7.2	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	5.38	174.263	3519.427	0.619	0.6	12.7	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	5.39	222.885	3120.159	0.893	0.8	-16.2	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	5.39	552.314	3521.426	1.961	1.9	-4.7	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	5.39	1283.834	3514.497	4.566	4.5	-9.8	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	5.39	3018.777	3436.796	10.980	10.9	9.2	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	5.39	14027.457	3426.939	51.166	51.0	2.0	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	5.39	27856.219	3438.093	101.278	100.8	0.8	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	5.39	63921.469	3208.393	249.040	246.5	-1.4	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	5.39	115438.727	2819.033	511.872	501.5	0.3	NO	1.000	NO	bb

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Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999932
Calibration curve: -0.000362631 * x^2 + 0.976516 * x + -0.0381503
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.62	601.109	32316.182	0.233	0.3	10.9	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	5.62	1147.121	32263.084	0.444	0.5	-1.1	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	5.62	2232.510	29553.299	0.944	1.0	0.6	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	5.62	4680.233	31848.387	1.837	1.9	-3.9	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	5.62	11279.368	30704.514	4.592	4.7	-5.0	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	5.63	24581.705	32069.451	9.581	9.9	-1.1	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	5.62	118095.070	30953.012	47.691	49.8	-0.4	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	5.62	229385.813	30719.697	93.338	99.3	-0.7	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	5.62	548455.938	30660.477	223.601	252.7	1.1	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	5.62	954699.813	30087.961	396.629	498.5	-0.3	NO	1.000	NO	bb

Compound name: N-MeFOSA
Coefficient of Determination: R^2 = 0.999371
Calibration curve: -4.55364e-005 * x^2 + 1.01929 * x + -0.0722985
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	1.250	5.79	104.750	13411.104	1.172	1.2	-2.4	NO	0.999	NO	bb
2	2	190219M2_3	Standard	2.500	5.79	197.500	12908.637	2.295	2.3	-7.1	NO	0.999	NO	bb
3	3	190219M2_4	Standard	5.000	5.78	390.536	12256.705	4.779	4.8	-4.8	NO	0.999	NO	bb
4	4	190219M2_5	Standard	10.000	5.78	913.033	13131.018	10.430	10.3	3.1	NO	0.999	NO	bb
5	5	190219M2_6	Standard	25.000	5.78	2037.574	12989.446	23.530	23.2	-7.3	NO	0.999	NO	bb
6	6	190219M2_7	Standard	50.000	5.79	4761.218	12894.924	55.385	54.5	9.1	NO	0.999	NO	bb
7	7	190219M2_8	Standard	250.000	5.79	22392.953	12741.333	263.626	261.8	4.7	NO	0.999	NO	bb
8	8	190219M2_9	Standard	500.000	5.79	44321.953	13148.683	505.624	507.6	1.5	NO	0.999	NO	bb
9	9	190219M2_10	Standard	1250.000	5.79	100420.500	12931.725	1164.816	1208.0	-3.4	NO	0.999	NO	bb
10	10	190219M2_11	Standard	2500.000	5.78	192563.063	12669.425	2279.856	2520.6	0.8	NO	0.999	NO	bb

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Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.999849
Calibration curve: -0.000409418 * x^2 + 1.05751 * x + 0.000185678
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	5.86	734.530	32316.182	0.284	0.3	7.4	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	5.86	1262.024	32263.084	0.489	0.5	-7.5	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	5.87	2513.583	29553.299	1.063	1.0	0.6	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	5.87	5257.984	31848.387	2.064	2.0	-2.4	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	5.87	12853.861	30704.514	5.233	5.0	-0.8	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	5.87	27605.037	32069.451	10.760	10.2	2.1	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	5.87	127832.188	30953.012	51.623	49.8	-0.4	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	5.87	255382.844	30719.697	103.917	102.3	2.3	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	5.87	577297.250	30660.477	235.359	246.0	-1.6	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	5.87	1029445.625	30087.961	427.682	502.0	0.4	NO	1.000	NO	bb

Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999884
Calibration curve: -0.000193395 * x^2 + 1.41743 * x + 0.00987699
Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	6.09	676.635	22245.848	0.380	0.3	4.5	NO	1.000	NO	bb
2	2	190219M2_3	Standard	0.500	6.09	1265.565	20688.348	0.765	0.5	6.5	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	6.09	2161.112	20316.092	1.330	0.9	-6.9	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	6.08	4805.287	21445.543	2.801	2.0	-1.5	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	6.09	11381.194	20745.127	6.858	4.8	-3.3	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	6.09	24783.477	21444.215	14.446	10.2	2.0	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	6.09	117026.742	20932.867	69.882	49.6	-0.7	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	6.09	229028.656	20823.229	137.484	98.3	-1.7	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	6.08	525482.125	18928.705	347.014	253.6	1.4	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	6.09	931078.438	17673.531	658.526	498.5	-0.3	NO	1.000	NO	bb

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Compound name: N-EtFOSA
Coefficient of Determination: R^2 = 0.999903
Calibration curve: -1.62682e-005 * x^2 + 0.863415 * x + -0.286178
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	1.250	6.21	93.685	19074.172	0.737	1.2	-5.2	NO	1.000	NO	bb
2	2	190219M2_3	Standard	2.500	6.21	210.943	18819.236	1.681	2.3	-8.8	NO	1.000	NO	bb
3	3	190219M2_4	Standard	5.000	6.21	515.650	17031.180	4.542	5.6	11.8	NO	1.000	NO	bb
4	4	190219M2_5	Standard	10.000	6.20	1089.982	18872.906	8.663	10.4	3.7	NO	1.000	NO	bb
5	5	190219M2_6	Standard	25.000	6.21	2423.584	18288.492	19.878	23.4	-6.5	NO	1.000	NO	bb
6	6	190219M2_7	Standard	50.000	6.21	5672.556	18760.998	45.354	52.9	5.8	NO	1.000	NO	bb
7	7	190219M2_8	Standard	250.000	6.21	25543.139	18014.842	212.684	247.8	-0.9	NO	1.000	NO	bb
8	8	190219M2_9	Standard	500.000	6.21	50271.820	17595.693	428.558	501.4	0.3	NO	1.000	NO	bb
9	9	190219M2_10	Standard	1250.000	6.20	117923.891	16818.785	1051.716	1247.8	-0.2	NO	1.000	NO	bb
10	10	190219M2_11	Standard	2500.000	6.21	210940.063	15379.068	2057.407	2501.1	0.0	NO	1.000	NO	db

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999728
Calibration curve: -0.000272751 * x^2 + 0.694489 * x + 0.0545299
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	6.43	614.715	12298.857	0.250	0.3	12.5	NO	1.000	NO	bd
2	2	190219M2_3	Standard	0.500	6.43	1004.450	12471.154	0.403	0.5	0.3	NO	1.000	NO	bb
3	3	190219M2_4	Standard	1.000	6.43	1674.234	11428.013	0.733	1.0	-2.3	NO	1.000	NO	bb
4	4	190219M2_5	Standard	2.000	6.43	3427.824	12529.679	1.368	1.9	-5.4	NO	1.000	NO	bb
5	5	190219M2_6	Standard	5.000	6.43	7988.104	11839.072	3.374	4.8	-4.2	NO	1.000	NO	bb
6	6	190219M2_7	Standard	10.000	6.43	17593.643	12511.590	7.031	10.1	0.9	NO	1.000	NO	bb
7	7	190219M2_8	Standard	50.000	6.43	79853.961	11848.549	33.698	49.4	-1.2	NO	1.000	NO	bb
8	8	190219M2_9	Standard	100.000	6.43	161545.875	12379.997	65.245	97.6	-2.4	NO	1.000	NO	bb
9	9	190219M2_10	Standard	250.000	6.43	351660.156	10981.920	160.109	256.3	2.5	NO	1.000	NO	bb
10	10	190219M2_11	Standard	500.000	6.43	641587.813	11551.048	277.718	496.7	-0.7	NO	1.000	NO	bb

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Compound name: PFODA
Coefficient of Determination: R^2 = 0.999315
Calibration curve: -0.000282051 * x^2 + 0.769717 * x + -0.019598
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	0.250	6.68	463.912	12298.857	0.189	0.3	8.2	NO	0.999	NO	bb
2	2	190219M2_3	Standard	0.500	6.68	890.165	12471.154	0.357	0.5	-2.2	NO	0.999	NO	bb
3	3	190219M2_4	Standard	1.000	6.68	1655.888	11428.013	0.724	1.0	-3.3	NO	0.999	NO	bb
4	4	190219M2_5	Standard	2.000	6.67	3582.536	12529.679	1.430	1.9	-5.8	NO	0.999	NO	bb
5	5	190219M2_6	Standard	5.000	6.68	8668.577	11839.072	3.661	4.8	-4.2	NO	0.999	NO	bb
6	6	190219M2_7	Standard	10.000	6.68	18942.525	12511.590	7.570	9.9	-1.0	NO	0.999	NO	bb
7	7	190219M2_8	Standard	50.000	6.68	89282.016	11848.549	37.676	49.9	-0.2	NO	0.999	NO	bb
8	8	190219M2_9	Standard	100.000	6.68	175418.406	12379.997	70.848	95.4	-4.6	NO	0.999	NO	bb
9	9	190219M2_10	Standard	250.000	6.67	397273.313	10981.920	180.876	259.7	3.9	NO	0.999	NO	bb
10	10	190219M2_11	Standard	500.000	6.68	720665.375	11551.048	311.948	495.1	-1.0	NO	0.999	NO	bb

Compound name: N-MeFOSE
Coefficient of Determination: R^2 = 0.999754
Calibration curve: -7.73241e-006 * x^2 + 0.983924 * x + -0.166991
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	1.250	6.39	78.293	9649.915	1.217	1.4	12.5	NO	1.000	NO	MM
2	2	190219M2_3	Standard	2.500	6.39	145.026	9299.906	2.339	2.5	1.9	NO	1.000	NO	bb
3	3	190219M2_4	Standard	5.000	6.39	255.161	8841.993	4.329	4.6	-8.6	NO	1.000	NO	bb
4	4	190219M2_5	Standard	10.000	6.39	620.806	9601.051	9.699	10.0	0.3	NO	1.000	NO	bb
5	5	190219M2_6	Standard	25.000	6.39	1417.734	9359.249	22.722	23.3	-6.9	NO	1.000	NO	MM
6	6	190219M2_7	Standard	50.000	6.39	3195.301	9578.356	50.039	51.0	2.1	NO	1.000	NO	bb
7	7	190219M2_8	Standard	250.000	6.39	15517.376	9490.096	245.267	249.9	-0.0	NO	1.000	NO	bb
8	8	190219M2_9	Standard	500.000	6.39	30682.645	9664.909	476.197	486.0	-2.8	NO	1.000	NO	bb
9	9	190219M2_10	Standard	1250.000	6.39	76802.219	9280.253	1241.381	1274.6	2.0	NO	1.000	NO	bb
10	10	190219M2_11	Standard	2500.000	6.39	151309.063	9448.203	2402.188	2490.3	-0.4	NO	1.000	NO	bb

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Compound name: N-EtFOSE
Coefficient of Determination: R^2 = 0.999952
Calibration curve: 5.83647e-006 * x^2 + 1.19188 * x + -0.106376
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	1.250	6.54	72.094	9093.403	1.189	1.1	-13.0	NO	1.000	NO	bb
2	2	190219M2_3	Standard	2.500	6.54	183.345	8888.378	3.094	2.7	7.4	NO	1.000	NO	bb
3	3	190219M2_4	Standard	5.000	6.54	347.744	8385.465	6.220	5.3	6.2	NO	1.000	NO	bb
4	4	190219M2_5	Standard	10.000	6.54	730.382	9369.695	11.693	9.9	-1.0	NO	1.000	NO	bb
5	5	190219M2_6	Standard	25.000	6.54	1678.165	8472.229	29.712	25.0	0.1	NO	1.000	NO	bb
6	6	190219M2_7	Standard	50.000	6.54	3782.678	9345.021	60.717	51.0	2.0	NO	1.000	NO	bb
7	7	190219M2_8	Standard	250.000	6.54	17835.994	9149.327	292.415	245.1	-1.9	NO	1.000	NO	bb
8	8	190219M2_9	Standard	500.000	6.54	36974.910	9298.421	596.471	499.3	-0.1	NO	1.000	NO	bb
9	9	190219M2_10	Standard	1250.000	6.54	93381.688	9290.578	1507.684	1257.3	0.6	NO	1.000	NO	bb
10	10	190219M2_11	Standard	2500.000	6.54	181008.859	9013.231	3012.386	2497.0	-0.1	NO	1.000	NO	bb

Compound name: 13C3-PFBA
Response Factor: 0.734919
RRF SD: 0.0142832, Relative SD: 1.94351
Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	1.26	8020.434	10724.771	9.348	12.7	1.8	NO		NO	bb
2	2	190219M2_3	Standard	12.500	1.25	7477.228	10324.341	9.053	12.3	-1.5	NO		NO	bb
3	3	190219M2_4	Standard	12.500	1.26	7264.031	10197.150	8.904	12.1	-3.1	NO		NO	MM
4	4	190219M2_5	Standard	12.500	1.27	7384.805	10054.438	9.181	12.5	-0.1	NO		NO	bb
5	5	190219M2_6	Standard	12.500	1.26	7685.704	10329.088	9.301	12.7	1.2	NO		NO	bb
6	6	190219M2_7	Standard	12.500	1.27	7796.209	10696.433	9.111	12.4	-0.8	NO		NO	MM
7	7	190219M2_8	Standard	12.500	1.27	7462.721	10285.721	9.069	12.3	-1.3	NO		NO	MM
8	8	190219M2_9	Standard	12.500	1.26	7602.358	10480.709	9.067	12.3	-1.3	NO		NO	bb
9	9	190219M2_10	Standard	12.500	1.27	7485.384	10020.430	9.338	12.7	1.6	NO		NO	bb
10	10	190219M2_11	Standard	12.500	1.28	7705.638	10146.920	9.493	12.9	3.3	NO		NO	MM

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Compound name: 13C3-PFPeA
Response Factor: 0.57114
RRF SD: 0.0204392, Relative SD: 3.57867
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	2.26	13754.154	24005.770	7.162	12.5	0.3	NO		NO	bb
2	2	190219M2_3	Standard	12.500	2.25	12653.266	22440.939	7.048	12.3	-1.3	NO		NO	bb
3	3	190219M2_4	Standard	12.500	2.26	12040.819	21816.168	6.899	12.1	-3.4	NO		NO	bb
4	4	190219M2_5	Standard	12.500	2.26	12588.298	23092.979	6.814	11.9	-4.6	NO		NO	bb
5	5	190219M2_6	Standard	12.500	2.26	12360.699	22256.580	6.942	12.2	-2.8	NO		NO	bb
6	6	190219M2_7	Standard	12.500	2.26	12933.955	22689.014	7.126	12.5	-0.2	NO		NO	bb
7	7	190219M2_8	Standard	12.500	2.26	12430.826	22035.301	7.052	12.3	-1.2	NO		NO	bb
8	8	190219M2_9	Standard	12.500	2.26	12694.034	21555.537	7.361	12.9	3.1	NO		NO	bb
9	9	190219M2_10	Standard	12.500	2.26	11940.226	20413.309	7.312	12.8	2.4	NO		NO	bb
10	10	190219M2_11	Standard	12.500	2.27	11465.957	18668.736	7.677	13.4	7.5	NO		NO	bb

Compound name: 13C3-PFBS
Response Factor: 0.53916
RRF SD: 0.0253481, Relative SD: 4.7014
Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	2.55	1753.066	3008.190	7.285	13.5	8.1	NO		NO	bb
2	2	190219M2_3	Standard	12.500	2.55	1615.393	2998.429	6.734	12.5	-0.1	NO		NO	bb
3	3	190219M2_4	Standard	12.500	2.56	1546.240	2707.030	7.140	13.2	5.9	NO		NO	bb
4	4	190219M2_5	Standard	12.500	2.55	1719.807	3187.770	6.744	12.5	0.1	NO		NO	bb
5	5	190219M2_6	Standard	12.500	2.56	1599.203	2974.844	6.720	12.5	-0.3	NO		NO	bb
6	6	190219M2_7	Standard	12.500	2.56	1673.378	3146.785	6.647	12.3	-1.4	NO		NO	bb
7	7	190219M2_8	Standard	12.500	2.56	1626.601	2992.438	6.795	12.6	0.8	NO		NO	bb
8	8	190219M2_9	Standard	12.500	2.56	1616.783	2980.351	6.781	12.6	0.6	NO		NO	bb
9	9	190219M2_10	Standard	12.500	2.56	1405.421	2808.637	6.255	11.6	-7.2	NO		NO	bb
10	10	190219M2_11	Standard	12.500	2.57	1272.325	2526.454	6.295	11.7	-6.6	NO		NO	bb

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Compound name: 13C2-4:2 FTS
Response Factor: 0.624904
RRF SD: 0.038358, Relative SD: 6.13822
Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	2.97	2110.143	3008.190	8.768	14.0	12.3	NO		NO	bb
2	2	190219M2_3	Standard	12.500	2.97	1883.538	2998.429	7.852	12.6	0.5	NO		NO	bb
3	3	190219M2_4	Standard	12.500	2.98	1847.328	2707.030	8.530	13.7	9.2	NO		NO	bb
4	4	190219M2_5	Standard	12.500	2.98	1929.415	3187.770	7.566	12.1	-3.1	NO		NO	bb
5	5	190219M2_6	Standard	12.500	2.98	1876.756	2974.844	7.886	12.6	1.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	2.98	1916.998	3146.785	7.615	12.2	-2.5	NO		NO	bb
7	7	190219M2_8	Standard	12.500	2.98	1800.744	2992.438	7.522	12.0	-3.7	NO		NO	bb
8	8	190219M2_9	Standard	12.500	2.98	1829.023	2980.351	7.671	12.3	-1.8	NO		NO	bb
9	9	190219M2_10	Standard	12.500	2.98	1642.275	2808.637	7.309	11.7	-6.4	NO		NO	bb
10	10	190219M2_11	Standard	12.500	2.97	1494.335	2526.454	7.393	11.8	-5.3	NO		NO	bb

Compound name: 13C2-PFHxA
Response Factor: 0.962365
RRF SD: 0.0227011, Relative SD: 2.35888
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	5.000	3.06	9235.790	24005.770	4.809	5.0	-0.1	NO		NO	bb
2	2	190219M2_3	Standard	5.000	3.06	8481.008	22440.939	4.724	4.9	-1.8	NO		NO	bb
3	3	190219M2_4	Standard	5.000	3.06	8271.603	21816.168	4.739	4.9	-1.5	NO		NO	bb
4	4	190219M2_5	Standard	5.000	3.06	8630.447	23092.979	4.672	4.9	-2.9	NO		NO	bb
5	5	190219M2_6	Standard	5.000	3.06	8550.917	22256.580	4.802	5.0	-0.2	NO		NO	bb
6	6	190219M2_7	Standard	5.000	3.07	8582.753	22689.014	4.728	4.9	-1.7	NO		NO	bb
7	7	190219M2_8	Standard	5.000	3.07	8487.010	22035.301	4.814	5.0	0.1	NO		NO	bb
8	8	190219M2_9	Standard	5.000	3.07	8436.032	21555.537	4.892	5.1	1.7	NO		NO	bb
9	9	190219M2_10	Standard	5.000	3.07	7946.858	20413.309	4.866	5.1	1.1	NO		NO	bb
10	10	190219M2_11	Standard	5.000	3.06	7572.721	18668.736	5.070	5.3	5.4	NO		NO	bb

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Compound name: 13C4-PFHpA
Response Factor: 0.562384
RRF SD: 0.0092969, Relative SD: 1.65312
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	3.68	13467.679	24005.770	7.013	12.5	-0.2	NO		NO	bb
2	2	190219M2_3	Standard	12.500	3.68	12858.300	22440.939	7.162	12.7	1.9	NO		NO	bb
3	3	190219M2_4	Standard	12.500	3.68	12079.992	21816.168	6.921	12.3	-1.5	NO		NO	bb
4	4	190219M2_5	Standard	12.500	3.68	13069.106	23092.979	7.074	12.6	0.6	NO		NO	bb
5	5	190219M2_6	Standard	12.500	3.68	12598.277	22256.580	7.076	12.6	0.7	NO		NO	bb
6	6	190219M2_7	Standard	12.500	3.68	13052.938	22689.014	7.191	12.8	2.3	NO		NO	bb
7	7	190219M2_8	Standard	12.500	3.68	12309.674	22035.301	6.983	12.4	-0.7	NO		NO	bb
8	8	190219M2_9	Standard	12.500	3.68	12266.911	21555.537	7.114	12.6	1.2	NO		NO	bb
9	9	190219M2_10	Standard	12.500	3.68	11129.488	20413.309	6.815	12.1	-3.1	NO		NO	bb
10	10	190219M2_11	Standard	12.500	3.68	10378.324	18668.736	6.949	12.4	-1.1	NO		NO	bb

Compound name: 18O2-PFHxS
Response Factor: 0.502341
RRF SD: 0.0145584, Relative SD: 2.89812
Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	3.83	1532.116	3008.190	6.366	12.7	1.4	NO		NO	bb
2	2	190219M2_3	Standard	12.500	3.83	1452.658	2998.429	6.056	12.1	-3.6	NO		NO	bb
3	3	190219M2_4	Standard	12.500	3.83	1429.590	2707.030	6.601	13.1	5.1	NO		NO	bb
4	4	190219M2_5	Standard	12.500	3.84	1559.935	3187.770	6.117	12.2	-2.6	NO		NO	bb
5	5	190219M2_6	Standard	12.500	3.84	1446.830	2974.844	6.079	12.1	-3.2	NO		NO	bb
6	6	190219M2_7	Standard	12.500	3.84	1540.813	3146.785	6.121	12.2	-2.5	NO		NO	bb
7	7	190219M2_8	Standard	12.500	3.84	1509.025	2992.438	6.303	12.5	0.4	NO		NO	bd
8	8	190219M2_9	Standard	12.500	3.84	1505.099	2980.351	6.313	12.6	0.5	NO		NO	bb
9	9	190219M2_10	Standard	12.500	3.84	1453.524	2808.637	6.469	12.9	3.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	3.84	1286.872	2526.454	6.367	12.7	1.4	NO		NO	bb

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Compound name: 13C2-6:2 FTS
Response Factor: 0.672976
RRF SD: 0.0383944, Relative SD: 5.70518
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.14	2283.540	3143.070	9.082	13.5	8.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.14	2093.163	3323.760	7.872	11.7	-6.4	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.14	2045.220	2983.199	8.570	12.7	1.9	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.14	2206.609	3403.552	8.104	12.0	-3.7	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.15	2133.387	3148.733	8.469	12.6	0.7	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.15	2179.425	3193.652	8.530	12.7	1.4	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.15	2094.606	3180.851	8.231	12.2	-2.2	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.15	2018.631	3274.391	7.706	11.5	-8.4	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.15	1990.192	2985.123	8.334	12.4	-0.9	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.14	1901.699	2577.175	9.224	13.7	9.6	NO		NO	bb

Compound name: 13C2-PFOA
Response Factor: 0.819346
RRF SD: 0.0218642, Relative SD: 2.66849
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.20	24030.457	29609.895	10.145	12.4	-0.9	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.20	22939.324	28490.311	10.065	12.3	-1.7	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.20	21979.750	26936.678	10.200	12.4	-0.4	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.20	23343.287	28531.459	10.227	12.5	-0.1	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.20	22903.086	28591.820	10.013	12.2	-2.2	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.21	23899.805	27754.430	10.764	13.1	5.1	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.21	22355.043	28090.787	9.948	12.1	-2.9	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.21	22093.109	26385.229	10.467	12.8	2.2	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.21	20180.434	25196.887	10.011	12.2	-2.3	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.20	19504.443	23044.514	10.580	12.9	3.3	NO		NO	bb

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Compound name: 13C5-PFNA
Response Factor: 0.990561
RRF SD: 0.0255602, Relative SD: 2.58038
Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.64	21088.193	21637.500	12.183	12.3	-1.6	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.64	20805.367	20884.229	12.453	12.6	0.6	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.64	20119.934	19444.289	12.934	13.1	4.5	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.64	21015.273	21585.184	12.170	12.3	-1.7	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.64	20633.699	20312.475	12.698	12.8	2.5	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.64	20591.146	21426.107	12.013	12.1	-3.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.64	20236.846	21183.873	11.941	12.1	-3.6	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.64	19932.787	20093.445	12.400	12.5	0.1	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.64	18166.471	18397.063	12.343	12.5	-0.3	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.64	17363.801	17110.342	12.685	12.8	2.4	NO		NO	bb

Compound name: 13C8-PFOSA
Response Factor: 0.0816746
RRF SD: 0.00562236, Relative SD: 6.88385
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.71	2440.508	33073.340	0.922	11.3	-9.7	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.71	2437.028	30980.105	0.983	12.0	-3.7	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.71	2315.916	30370.830	0.953	11.7	-6.6	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.71	2510.511	31600.275	0.993	12.2	-2.7	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.71	2500.345	30179.211	1.036	12.7	1.4	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.71	2489.488	31508.045	0.988	12.1	-3.3	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.71	2405.587	28604.072	1.051	12.9	3.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.71	2414.573	29559.443	1.021	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.71	2362.133	26763.305	1.103	13.5	8.1	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.71	2147.056	23165.260	1.159	14.2	13.5	NO		NO	bb

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Compound name: 13C8-PFOS
Response Factor: 1.06816
RRF SD: 0.0244814, Relative SD: 2.29191
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.73	3312.597	3143.070	13.174	12.3	-1.3	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.73	3519.427	3323.760	13.236	12.4	-0.9	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.73	3120.159	2983.199	13.074	12.2	-2.1	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.73	3521.426	3403.552	12.933	12.1	-3.1	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.73	3514.497	3148.733	13.952	13.1	4.5	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.73	3436.796	3193.652	13.452	12.6	0.7	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.73	3426.939	3180.851	13.467	12.6	0.9	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.73	3438.093	3274.391	13.125	12.3	-1.7	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.73	3208.393	2985.123	13.435	12.6	0.6	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.73	2819.033	2577.175	13.673	12.8	2.4	NO		NO	bb

Compound name: 13C2-PFDA
Response Factor: 0.768155
RRF SD: 0.0419641, Relative SD: 5.46297
Response type: Internal Std (Ref 66), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.01	21970.746	29449.926	9.325	12.1	-2.9	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.01	21050.510	27850.688	9.448	12.3	-1.6	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.01	19227.809	26590.703	9.039	11.8	-5.9	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.01	22128.697	28129.428	9.833	12.8	2.4	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.01	19933.990	27622.736	9.021	11.7	-6.1	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.02	22013.189	27410.285	10.039	13.1	4.5	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.02	19655.838	27300.965	9.000	11.7	-6.3	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.02	21011.467	27196.086	9.657	12.6	0.6	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.01	18835.627	23165.965	10.163	13.2	5.8	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.01	18242.537	21729.855	10.494	13.7	9.3	NO		NO	bb

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Compound name: 13C2-8:2 FTS
Response Factor: 0.720282
RRF SD: 0.0525835, Relative SD: 7.3004
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.98	2426.380	3143.070	9.650	13.4	7.2	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.98	2369.474	3323.760	8.911	12.4	-1.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.99	2224.548	2983.199	9.321	12.9	3.5	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.98	2331.585	3403.552	8.563	11.9	-4.9	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.99	2362.713	3148.733	9.380	13.0	4.2	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.99	2245.467	3193.652	8.789	12.2	-2.4	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.99	2195.041	3180.851	8.626	12.0	-4.2	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.99	2038.123	3274.391	7.781	10.8	-13.6	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.99	2116.364	2985.123	8.862	12.3	-1.6	NO		NO	bd
10	10	190219M2_11	Standard	12.500	4.98	2093.307	2577.175	10.153	14.1	12.8	NO		NO	bb

Compound name: d3-N-MeFOSAA
Response Factor: 0.110194
RRF SD: 0.0101649, Relative SD: 9.22452
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.17	3299.325	33073.340	1.247	11.3	-9.5	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.17	3308.612	30980.105	1.335	12.1	-3.1	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.17	2977.464	30370.830	1.225	11.1	-11.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.17	3356.390	31600.275	1.328	12.0	-3.6	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.17	3335.833	30179.211	1.382	12.5	0.3	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.17	3265.710	31508.045	1.296	11.8	-5.9	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.17	3148.095	28604.072	1.376	12.5	-0.1	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.17	3321.323	29559.443	1.405	12.7	2.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.17	3332.808	26763.305	1.557	14.1	13.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.17	3011.708	23165.260	1.625	14.7	18.0	NO		NO	bb

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Compound name: 13C2-PFUdA
Response Factor: 0.940603
RRF SD: 0.0349609, Relative SD: 3.71686
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.34	29114.768	33073.340	11.004	11.7	-6.4	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.34	28936.742	30980.105	11.676	12.4	-0.7	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.34	27477.852	30370.830	11.309	12.0	-3.8	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.34	28650.039	31600.275	11.333	12.0	-3.6	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.34	29206.324	30179.211	12.097	12.9	2.9	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.34	29647.043	31508.045	11.762	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.34	28223.229	28604.072	12.334	13.1	4.9	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.34	27855.852	29559.443	11.780	12.5	0.2	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.34	25772.674	26763.305	12.037	12.8	2.4	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.34	22691.619	23165.260	12.244	13.0	4.1	NO		NO	bb

Compound name: d5-N-EtFOSAA
Response Factor: 0.144785
RRF SD: 0.00615956, Relative SD: 4.25428
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.33	4834.425	33073.340	1.827	12.6	1.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.33	4670.424	30980.105	1.884	13.0	4.1	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.33	4326.765	30370.830	1.781	12.3	-1.6	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.33	4425.761	31600.275	1.751	12.1	-3.3	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.33	4534.927	30179.211	1.878	13.0	3.8	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.33	4757.903	31508.045	1.888	13.0	4.3	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.33	4375.255	28604.072	1.912	13.2	5.6	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.33	4034.311	29559.443	1.706	11.8	-5.7	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.33	3696.702	26763.305	1.727	11.9	-4.6	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.32	3233.028	23165.260	1.745	12.0	-3.6	NO		NO	bb

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Compound name: 13C2-PFDoA
Response Factor: 1.17524
RRF SD: 0.0977518, Relative SD: 8.3176
Response type: Internal Std (Ref 66), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.62	32316.182	29449.926	13.717	11.7	-6.6	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.62	32263.084	27850.688	14.480	12.3	-1.4	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.62	29553.299	26590.703	13.893	11.8	-5.4	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.62	31848.387	28129.428	14.153	12.0	-3.7	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.62	30704.514	27622.736	13.895	11.8	-5.4	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.62	32069.451	27410.285	14.625	12.4	-0.4	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.62	30953.012	27300.965	14.172	12.1	-3.5	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.62	30719.697	27196.086	14.120	12.0	-3.9	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.62	30660.477	23165.965	16.544	14.1	12.6	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.62	30087.961	21729.855	17.308	14.7	17.8	NO		NO	bb

Compound name: d3-N-MeFOSA
Response Factor: 0.0366775
RRF SD: 0.00373155, Relative SD: 10.1739
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	150.000	5.81	13411.104	33073.340	5.069	138.2	-7.9	NO		NO	bb
2	2	190219M2_3	Standard	150.000	5.81	12908.637	30980.105	5.208	142.0	-5.3	NO		NO	bb
3	3	190219M2_4	Standard	150.000	5.81	12256.705	30370.830	5.045	137.5	-8.3	NO		NO	bb
4	4	190219M2_5	Standard	150.000	5.81	13131.018	31600.275	5.194	141.6	-5.6	NO		NO	bb
5	5	190219M2_6	Standard	150.000	5.81	12989.446	30179.211	5.380	146.7	-2.2	NO		NO	bb
6	6	190219M2_7	Standard	150.000	5.81	12894.924	31508.045	5.116	139.5	-7.0	NO		NO	bb
7	7	190219M2_8	Standard	150.000	5.81	12741.333	28604.072	5.568	151.8	1.2	NO		NO	bb
8	8	190219M2_9	Standard	150.000	5.81	13148.683	29559.443	5.560	151.6	1.1	NO		NO	bb
9	9	190219M2_10	Standard	150.000	5.81	12931.725	26763.305	6.040	164.7	9.8	NO		NO	bb
10	10	190219M2_11	Standard	150.000	5.81	12669.425	23165.260	6.836	186.4	24.3	NO		NO	bb

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Compound name: 13C2-PFTeDA
Response Factor: 0.696246
RRF SD: 0.0309969, Relative SD: 4.45201
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	6.09	22245.848	33073.340	8.408	12.1	-3.4	NO		NO	bb
2	2	190219M2_3	Standard	12.500	6.09	20688.348	30980.105	8.347	12.0	-4.1	NO		NO	bb
3	3	190219M2_4	Standard	12.500	6.09	20316.092	30370.830	8.362	12.0	-3.9	NO		NO	bb
4	4	190219M2_5	Standard	12.500	6.08	21445.543	31600.275	8.483	12.2	-2.5	NO		NO	bb
5	5	190219M2_6	Standard	12.500	6.09	20745.127	30179.211	8.592	12.3	-1.3	NO		NO	bb
6	6	190219M2_7	Standard	12.500	6.09	21444.215	31508.045	8.507	12.2	-2.2	NO		NO	bb
7	7	190219M2_8	Standard	12.500	6.09	20932.867	28604.072	9.148	13.1	5.1	NO		NO	bb
8	8	190219M2_9	Standard	12.500	6.09	20823.229	29559.443	8.806	12.6	1.2	NO		NO	bb
9	9	190219M2_10	Standard	12.500	6.08	18928.705	26763.305	8.841	12.7	1.6	NO		NO	bb
10	10	190219M2_11	Standard	12.500	6.09	17673.531	23165.260	9.537	13.7	9.6	NO		NO	bb

Compound name: d5-N-ETFOSA
Response Factor: 0.0505084
RRF SD: 0.0024261, Relative SD: 4.80336
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	150.000	6.22	19074.172	33073.340	7.209	142.7	-4.8	NO		NO	bb
2	2	190219M2_3	Standard	150.000	6.22	18819.236	30980.105	7.593	150.3	0.2	NO		NO	bb
3	3	190219M2_4	Standard	150.000	6.22	17031.180	30370.830	7.010	138.8	-7.5	NO		NO	bb
4	4	190219M2_5	Standard	150.000	6.22	18872.906	31600.275	7.465	147.8	-1.5	NO		NO	bb
5	5	190219M2_6	Standard	150.000	6.22	18288.492	30179.211	7.575	150.0	-0.0	NO		NO	bb
6	6	190219M2_7	Standard	150.000	6.22	18760.998	31508.045	7.443	147.4	-1.8	NO		NO	bb
7	7	190219M2_8	Standard	150.000	6.22	18014.842	28604.072	7.872	155.9	3.9	NO		NO	bb
8	8	190219M2_9	Standard	150.000	6.22	17595.693	29559.443	7.441	147.3	-1.8	NO		NO	bb
9	9	190219M2_10	Standard	150.000	6.22	16818.785	26763.305	7.855	155.5	3.7	NO		NO	bb
10	10	190219M2_11	Standard	150.000	6.22	15379.068	23165.260	8.299	164.3	9.5	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

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Compound name: 13C2-PFHxDA
Response Factor: 1.01965
RRF SD: 0.0882515, Relative SD: 8.65506
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	5.000	6.43	12298.857	33073.340	4.648	4.6	-8.8	NO		NO	bb
2	2	190219M2_3	Standard	5.000	6.43	12471.154	30980.105	5.032	4.9	-1.3	NO		NO	bb
3	3	190219M2_4	Standard	5.000	6.43	11428.013	30370.830	4.704	4.6	-7.7	NO		NO	bb
4	4	190219M2_5	Standard	5.000	6.43	12529.679	31600.275	4.956	4.9	-2.8	NO		NO	bb
5	5	190219M2_6	Standard	5.000	6.43	11839.072	30179.211	4.904	4.8	-3.8	NO		NO	bb
6	6	190219M2_7	Standard	5.000	6.43	12511.590	31508.045	4.964	4.9	-2.6	NO		NO	bb
7	7	190219M2_8	Standard	5.000	6.43	11848.549	28604.072	5.178	5.1	1.6	NO		NO	bb
8	8	190219M2_9	Standard	5.000	6.43	12379.997	29559.443	5.235	5.1	2.7	NO		NO	bb
9	9	190219M2_10	Standard	5.000	6.43	10981.920	26763.305	5.129	5.0	0.6	NO		NO	bb
10	10	190219M2_11	Standard	5.000	6.43	11551.048	23165.260	6.233	6.1	22.3	NO		NO	bb

Compound name: d7-N-MeFOSE
Response Factor: 0.0267867
RRF SD: 0.00294487, Relative SD: 10.9938
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	150.000	6.38	9649.915	33073.340	3.647	136.2	-9.2	NO		NO	bb
2	2	190219M2_3	Standard	150.000	6.38	9299.906	30980.105	3.752	140.1	-6.6	NO		NO	bb
3	3	190219M2_4	Standard	150.000	6.38	8841.993	30370.830	3.639	135.9	-9.4	NO		NO	bb
4	4	190219M2_5	Standard	150.000	6.38	9601.051	31600.275	3.798	141.8	-5.5	NO		NO	bb
5	5	190219M2_6	Standard	150.000	6.38	9359.249	30179.211	3.877	144.7	-3.5	NO		NO	bb
6	6	190219M2_7	Standard	150.000	6.38	9578.356	31508.045	3.800	141.9	-5.4	NO		NO	bb
7	7	190219M2_8	Standard	150.000	6.38	9490.096	28604.072	4.147	154.8	3.2	NO		NO	bb
8	8	190219M2_9	Standard	150.000	6.38	9664.909	29559.443	4.087	152.6	1.7	NO		NO	bb
9	9	190219M2_10	Standard	150.000	6.38	9280.253	26763.305	4.334	161.8	7.9	NO		NO	bb
10	10	190219M2_11	Standard	150.000	6.38	9448.203	23165.260	5.098	190.3	26.9	NO		NO	bb

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Compound name: d9-N-EtFOSE
Response Factor: 0.025687
RRF SD: 0.00302388, Relative SD: 11.7721
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	150.000	6.53	9093.403	33073.340	3.437	133.8	-10.8	NO		NO	bb
2	2	190219M2_3	Standard	150.000	6.53	8888.378	30980.105	3.586	139.6	-6.9	NO		NO	bb
3	3	190219M2_4	Standard	150.000	6.53	8385.465	30370.830	3.451	134.4	-10.4	NO		NO	bb
4	4	190219M2_5	Standard	150.000	6.53	9369.695	31600.275	3.706	144.3	-3.8	NO		NO	bb
5	5	190219M2_6	Standard	150.000	6.53	8472.229	30179.211	3.509	136.6	-8.9	NO		NO	bb
6	6	190219M2_7	Standard	150.000	6.53	9345.021	31508.045	3.707	144.3	-3.8	NO		NO	bb
7	7	190219M2_8	Standard	150.000	6.53	9149.327	28604.072	3.998	155.7	3.8	NO		NO	bb
8	8	190219M2_9	Standard	150.000	6.53	9298.421	29559.443	3.932	153.1	2.1	NO		NO	bb
9	9	190219M2_10	Standard	150.000	6.53	9290.578	26763.305	4.339	168.9	12.6	NO		NO	bb
10	10	190219M2_11	Standard	150.000	6.53	9013.231	23165.260	4.864	189.3	26.2	NO		NO	bb

Compound name: 13C4-PFBA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	1.25	10724.771	10724.771	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	1.25	10324.341	10324.341	12.500	12.5	0.0	NO		NO	MM
3	3	190219M2_4	Standard	12.500	1.26	10197.150	10197.150	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	1.26	10054.438	10054.438	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	1.26	10329.088	10329.088	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	1.26	10696.433	10696.433	12.500	12.5	0.0	NO		NO	MM
7	7	190219M2_8	Standard	12.500	1.26	10285.721	10285.721	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	1.26	10480.709	10480.709	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	1.27	10020.430	10020.430	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	1.28	10146.920	10146.920	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	3.06	24005.770	24005.770	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	3.06	22440.939	22440.939	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	3.06	21816.168	21816.168	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	3.06	23092.979	23092.979	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	3.06	22256.580	22256.580	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	3.07	22689.014	22689.014	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	3.06	22035.301	22035.301	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	3.07	21555.537	21555.537	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	3.06	20413.309	20413.309	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	3.06	18668.736	18668.736	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	3.83	3008.190	3008.190	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	3.83	2998.429	2998.429	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	3.84	2707.030	2707.030	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	3.83	3187.770	3187.770	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	3.84	2974.844	2974.844	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	3.84	3146.785	3146.785	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	3.84	2992.438	2992.438	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	3.84	2980.351	2980.351	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	3.84	2808.637	2808.637	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	3.84	2526.454	2526.454	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 3.70074e-017, Relative SD: 3.70074e-015
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.20	29609.895	29609.895	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.20	28490.311	28490.311	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.20	26936.678	26936.678	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.20	28531.459	28531.459	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.20	28591.820	28591.820	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.21	27754.430	27754.430	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.21	28090.787	28090.787	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.21	26385.229	26385.229	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.20	25196.887	25196.887	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.20	23044.514	23044.514	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.64	21637.500	21637.500	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.64	20884.229	20884.229	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.64	19444.289	19444.289	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.64	21585.184	21585.184	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.64	20312.475	20312.475	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.64	21426.107	21426.107	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.64	21183.873	21183.873	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.64	20093.445	20093.445	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.64	18397.063	18397.063	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.64	17110.342	17110.342	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 7.40149e-017, Relative SD: 7.40149e-015
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	4.72	3143.070	3143.070	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	4.72	3323.760	3323.760	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	4.73	2983.199	2983.199	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	4.72	3403.552	3403.552	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	4.73	3148.733	3148.733	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	4.73	3193.652	3193.652	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	4.73	3180.851	3180.851	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	4.73	3274.391	3274.391	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	4.73	2985.123	2985.123	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	4.73	2577.175	2577.175	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 9.06493e-017, Relative SD: 9.06493e-015
Response type: Internal Std (Ref 66), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.01	29449.926	29449.926	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.01	27850.688	27850.688	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.01	26590.703	26590.703	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.01	28129.428	28129.428	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.01	27622.736	27622.736	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.01	27410.285	27410.285	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.01	27300.965	27300.965	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.01	27196.086	27196.086	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.01	23165.965	23165.965	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.01	21729.855	21729.855	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C7-PFUdA
Response Factor: 1
RRF SD: 9.06493e-017, Relative SD: 9.06493e-015
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	190219M2_2	Standard	12.500	5.34	33073.340	33073.340	12.500	12.5	0.0	NO		NO	bb
2	2	190219M2_3	Standard	12.500	5.34	30980.105	30980.105	12.500	12.5	0.0	NO		NO	bb
3	3	190219M2_4	Standard	12.500	5.34	30370.830	30370.830	12.500	12.5	0.0	NO		NO	bb
4	4	190219M2_5	Standard	12.500	5.34	31600.275	31600.275	12.500	12.5	0.0	NO		NO	bb
5	5	190219M2_6	Standard	12.500	5.34	30179.211	30179.211	12.500	12.5	0.0	NO		NO	bb
6	6	190219M2_7	Standard	12.500	5.34	31508.045	31508.045	12.500	12.5	0.0	NO		NO	bb
7	7	190219M2_8	Standard	12.500	5.34	28604.072	28604.072	12.500	12.5	0.0	NO		NO	bb
8	8	190219M2_9	Standard	12.500	5.34	29559.443	29559.443	12.500	12.5	0.0	NO		NO	bb
9	9	190219M2_10	Standard	12.500	5.34	26763.305	26763.305	12.500	12.5	0.0	NO		NO	bb
10	10	190219M2_11	Standard	12.500	5.34	23165.260	23165.260	12.500	12.5	0.0	NO		NO	bb

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, February 20, 2019 09:46:35 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:46:53 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Compound name: PFBA

	#	Name	ID	Acq.Date	Acq.Time
1	1	190219M2_1	IPA	19-Feb-19	16:39:36
2	2	190219M2_2	ST190219M2-1 PFC CS-2 19B1301	19-Feb-19	16:50:09
3	3	190219M2_3	ST190219M2-2 PFC CS-1 19B1302	19-Feb-19	17:00:42
4	4	190219M2_4	ST190219M2-3 PFC CS0 19B1303	19-Feb-19	17:11:21
5	5	190219M2_5	ST190219M2-4 PFC CS1 19B1304	19-Feb-19	17:21:53
6	6	190219M2_6	ST190219M2-5 PFC CS2 19B1305	19-Feb-19	17:32:31
7	7	190219M2_7	ST190219M2-6 PFC CS3 19B1306	19-Feb-19	17:43:04
8	8	190219M2_8	ST190219M2-7 PFC CS4 19B1307	19-Feb-19	17:53:43
9	9	190219M2_9	ST190219M2-8 PFC CS5 19B1308	19-Feb-19	18:04:16
10	10	190219M2_10	ST190219M2-9 PFC CS6 19B1309	19-Feb-19	18:14:54
11	11	190219M2_11	ST190219M2-10 PFC CS7 19B1310	19-Feb-19	18:26:12
12	12	190219M2_12	IPA	19-Feb-19	18:36:47
13	13	190219M2_13	ICV190219M2-1 PFC ICV 19B1311	19-Feb-19	18:47:25
14	14	190219M2_14	IPA	19-Feb-19	18:57:58

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:05 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

	Name	Ion Ratio	Ratio out?
1	PFBA		
2	PFPeA		
3	PFBS	2.841	NO
4	4:2 FTS	1.841	NO
5	PFHxA	14.836	NO
6	PFPeS	1.667	NO
7	PFHpA	12.269	NO
8	L-PFHxS	1.775	NO
9	6:2 FTS	2.859	NO
10	L-PFOA	3.595	NO
11	PFHpS	1.832	NO
12	PFNA	4.395	NO
13	PFOSA	18.382	NO
14	L-PFOS	1.907	NO
15	PFDA	5.631	NO
16	8:2 FTS	2.526	NO
17	PFNS	1.770	NO
18	L-MeFOSAA	2.505	NO
19	L-EtFOSAA	1.363	NO

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:22 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

	Name	Ion Ratio	Ratio out?
1	PFUdA	10.111	NO
2	PFDS	1.692	NO
3	PFDoA	8.322	NO
4	N-MeFOSA	1.525	NO
5	PFTrDA	25.018	NO
6	PFTeDA	13.257	NO
7	N-EtFOSA	1.634	NO
8	PFHxDA	31.678	NO
9	PFODA		
10	N-MeFOSE		
11	N-EtFOSE		

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:38:24 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

	#	Name	IS#	CoD	CoD Flag	%RSD
1	1	PFBA	36	0.9998	NO	
2	2	PFPeA	37	1.0000	NO	
3	3	PFBS	38	0.9997	NO	
4	4	4:2 FTS	39	0.9998	NO	
5	5	PFHxA	40	0.9999	NO	
6	6	PFPeS	38	0.9998	NO	
7	7	PFHpA	41	0.9993	NO	
8	8	L-PFHxS	42	0.9997	NO	
9	10	6:2 FTS	43	0.9999	NO	
10	11	L-PFOA	44	0.9991	NO	
11	13	PFHpS	47	0.9998	NO	
12	14	PFNA	45	0.9999	NO	
13	15	PFOSA	46	0.9999	NO	
14	16	L-PFOS	47	0.9985	NO	
15	18	PFDA	48	0.9998	NO	
16	19	8:2 FTS	49	0.9987	NO	
17	20	PFNS	47	0.9995	NO	
18	21	L-MeFOSAA	50	0.9979	NO	
19	23	L-EtFOSAA	52	0.9996	NO	

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:39:09 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

	#	Name	IS#	CoD	CoD Flag	%RSD
1	25	PFUdA	51	0.9999	NO	
2	26	PFDS	47	0.9997	NO	
3	27	PFDoA	53	0.9999	NO	
4	28	N-MeFOSA	54	0.9994	NO	
5	29	PFTrDA	53	0.9998	NO	
6	30	PFTeDA	55	0.9999	NO	
7	31	N-EtFOSA	56	0.9999	NO	
8	32	PFHxDA	57	0.9997	NO	
9	33	PFODA	57	0.9993	NO	
10	34	N-MeFOSE	58	0.9998	NO	
11	35	N-EtFOSE	59	1.0000	NO	
12	36	13C3-PFBA	60		NO	1.944
13	37	13C3-PFPeA	61		NO	3.579
14	38	13C3-PFBS	62		NO	4.701
15	39	13C2-4:2 FTS	62		NO	6.138
16	40	13C2-PFHxA	61		NO	2.359
17	41	13C4-PFHpA	61		NO	1.653
18	42	18O2-PFHxS	62		NO	2.898
19	43	13C2-6:2 FTS	65		NO	5.705
20	44	13C2-PFOA	63		NO	2.668
21	45	13C5-PFNA	64		NO	2.580
22	46	13C8-PFOSA	67		NO	6.884
23	47	13C8-PFOS	65		NO	2.292
24	48	13C2-PFDA	66		NO	5.463
25	49	13C2-8:2 FTS	65		NO	7.300
26	50	d3-N-MeFOSAA	67		NO	9.225
27	51	13C2-PFUdA	67		NO	3.717
28	52	d5-N-EtFOSAA	67		NO	4.254
29	53	13C2-PFDoA	66		NO	8.318
30	54	d3-N-MeFOSA	67		NO	10.174
31	55	13C2-PFTeDA	67		NO	4.452
32	56	d5-N-ETFOSA	67		NO	4.803

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:39:09 Pacific Standard Time

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

	#	Name	IS#	CoD	CoD Flag	%RSD
33	57	13C2-PFHxDA	67		NO	8.655
34	58	d7-N-MeFOSE	67		NO	10.994
35	59	d9-N-EtFOSE	67		NO	11.772
36	60	13C4-PFBA	60		NO	0.000
37	61	13C5-PFHxA	61		NO	0.000
38	62	13C3-PFHxS	62		NO	0.000
39	63	13C8-PFOA	63		NO	0.000
40	64	13C9-PFNA	64		NO	0.000
41	65	13C4-PFOS	65		NO	0.000
42	66	13C6-PFDA	66		NO	0.000
43	67	13C7-PFUdA	67		NO	0.000

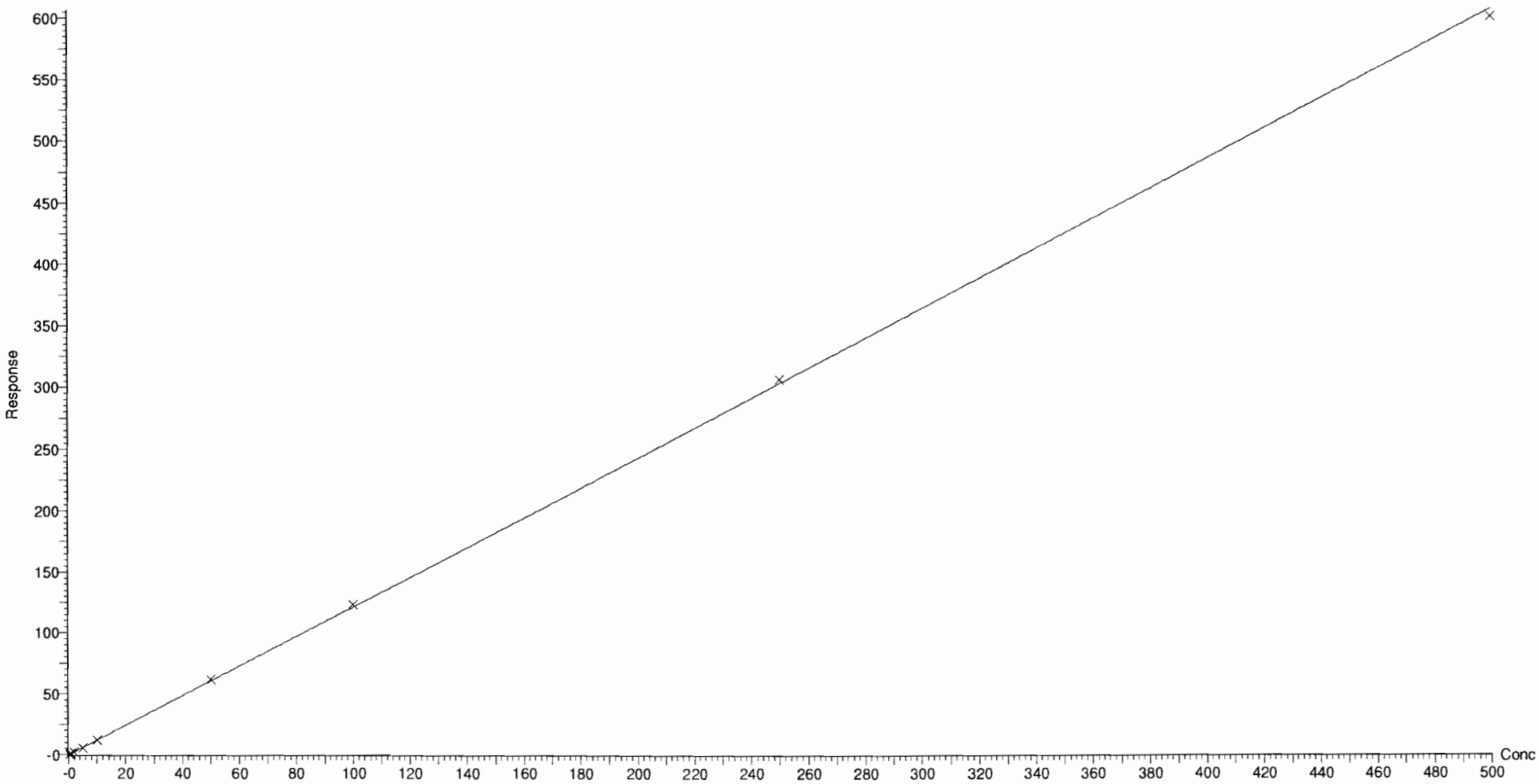
Vista Analytical Laboratory Q1

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

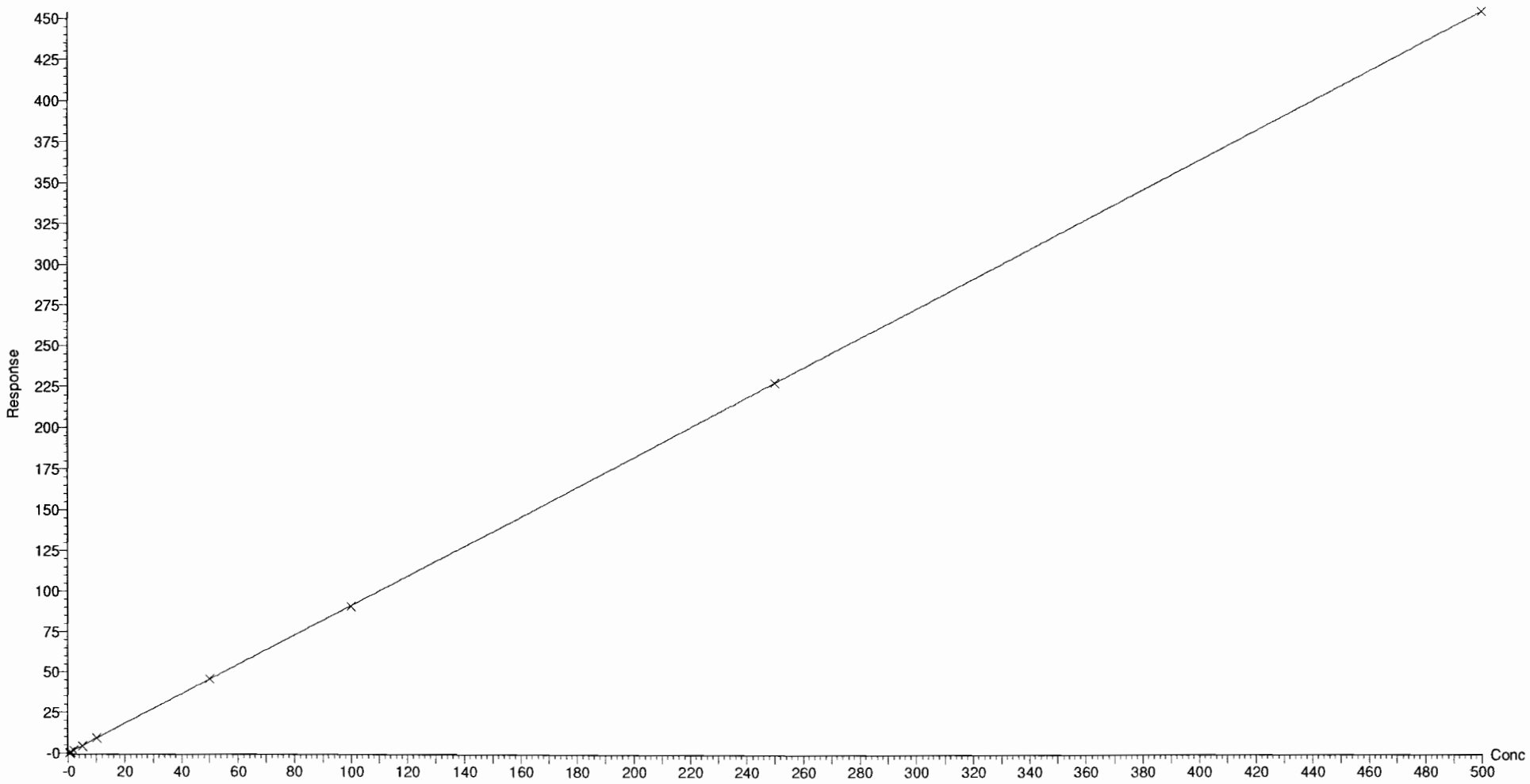
Compound name: PFBA
Correlation coefficient: r = 0.999904, r^2 = 0.999808
Calibration curve: 1.21322 * x + -0.102256
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

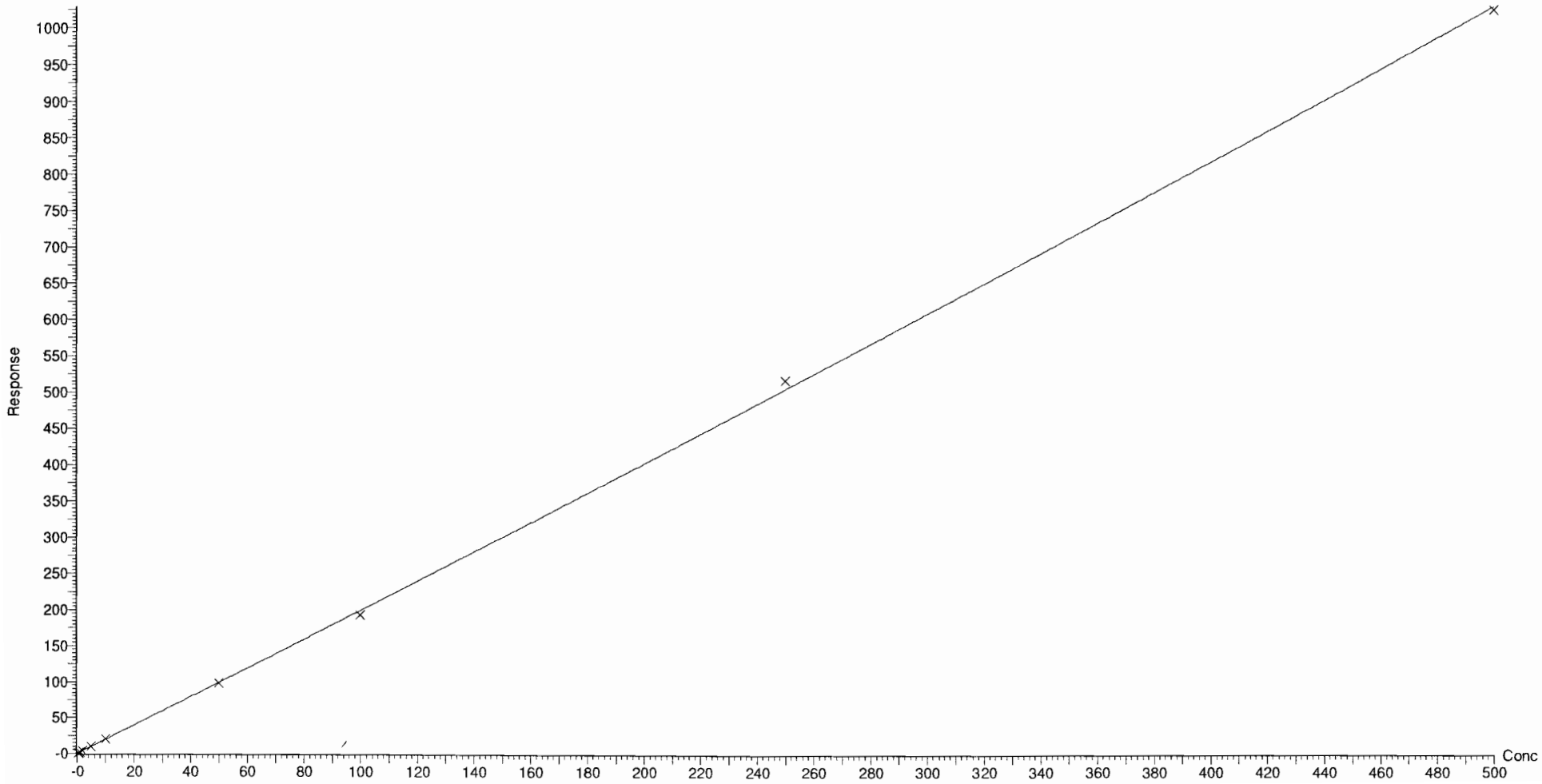
Compound name: PFPeA
Coefficient of Determination: R^2 = 0.999983
Calibration curve: -1.07701e-005 * x^2 + 0.91361 * x + -0.0195578
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

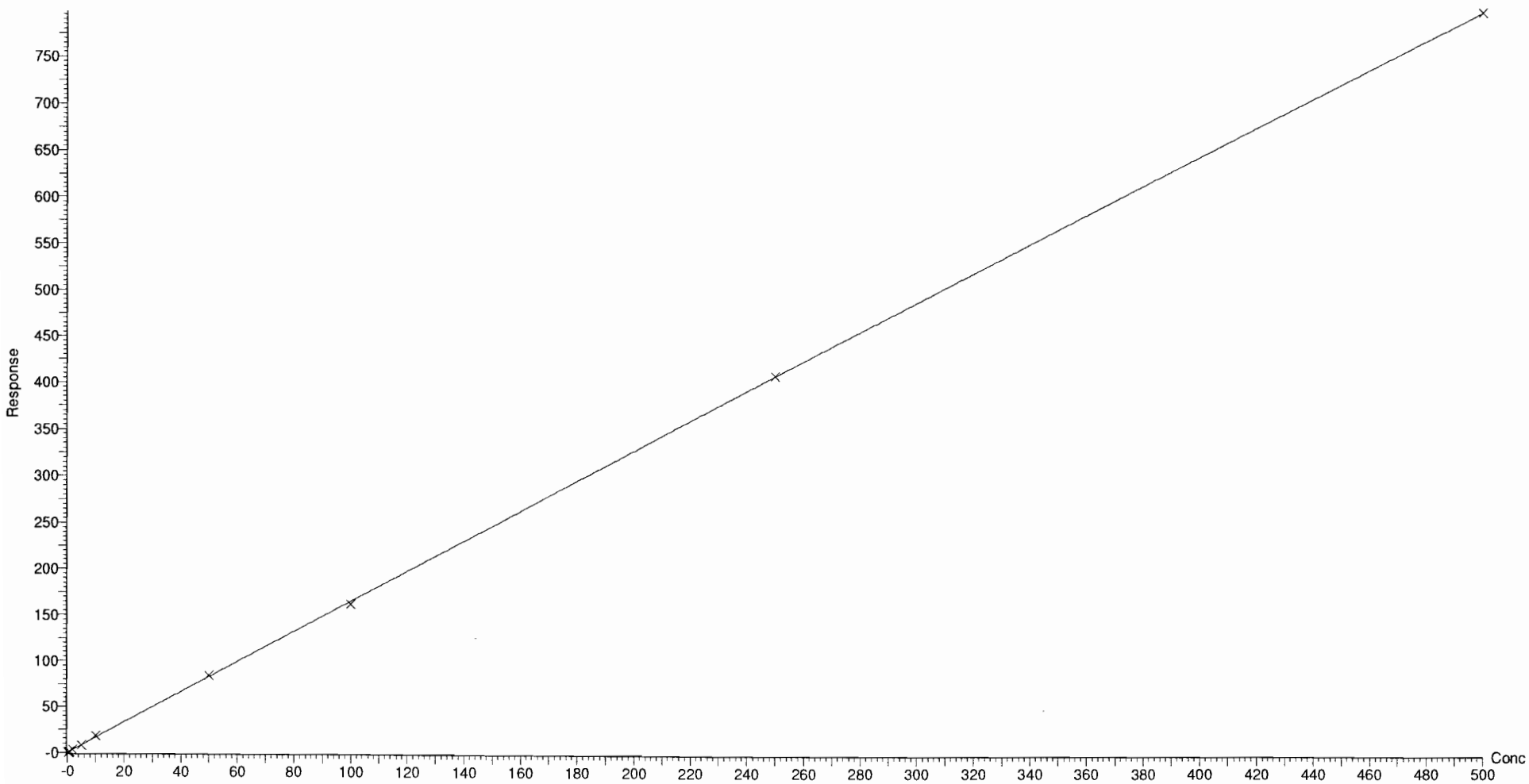
Compound name: PFBS
Coefficient of Determination: R^2 = 0.999712
Calibration curve: 0.000155062 * x^2 + 1.9813 * x + 0.0126994
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

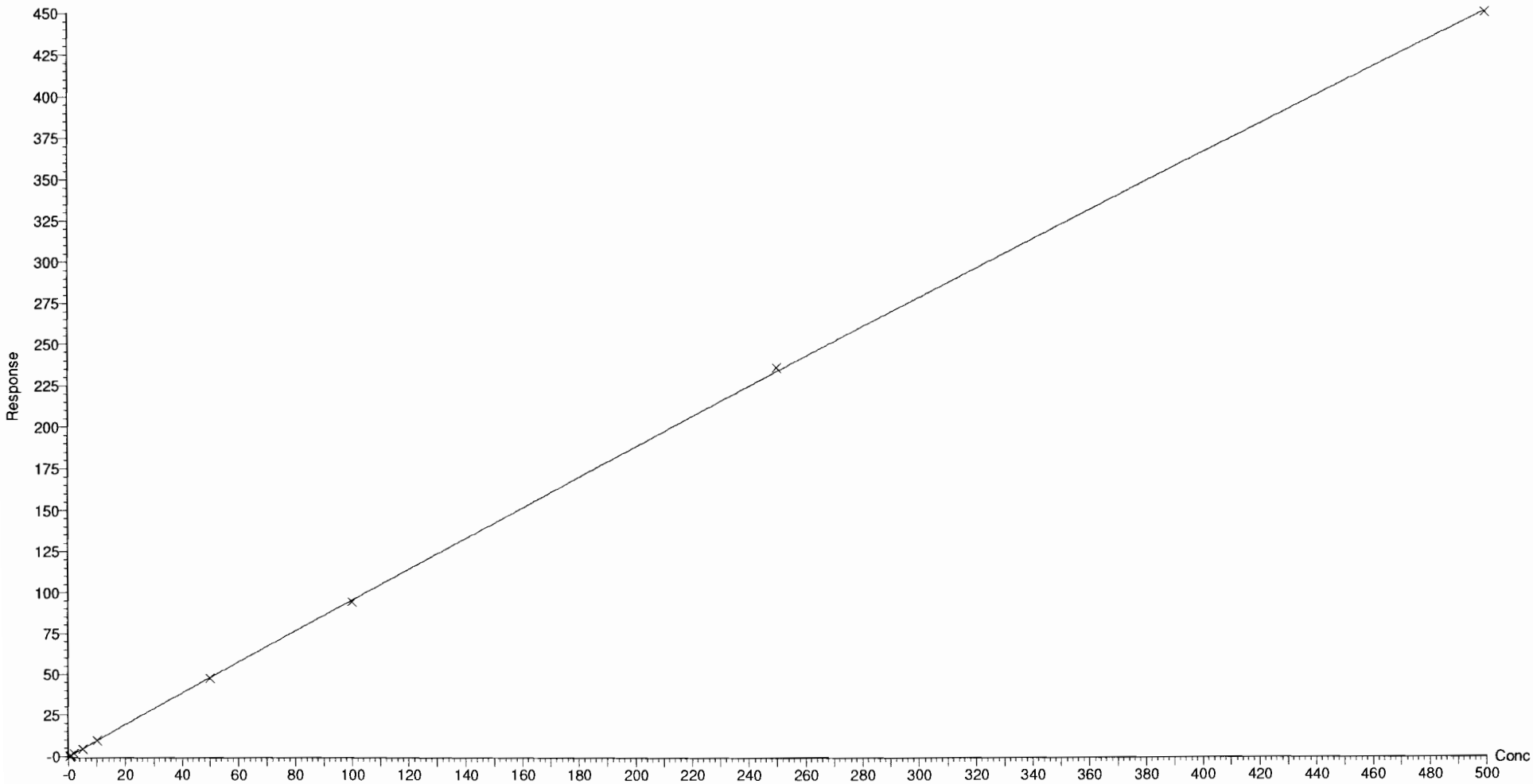
Compound name: 4:2 FTS
Coefficient of Determination: R^2 = 0.999814
Calibration curve: -0.000145355 * x^2 + 1.6692 * x + -0.0458371
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

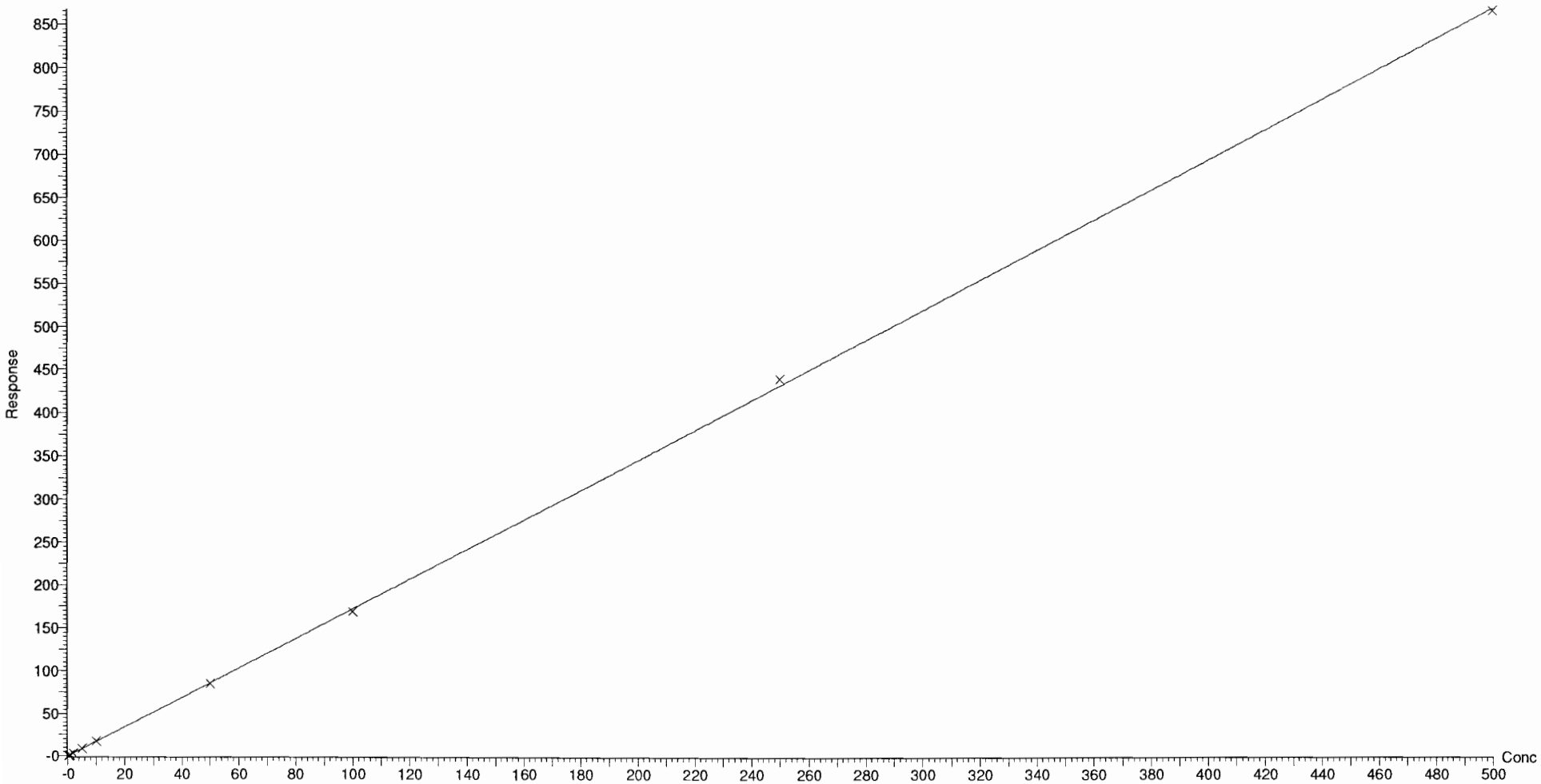
Compound name: PFHxA
Coefficient of Determination: R^2 = 0.999947
Calibration curve: -0.000133811 * x^2 + 0.967634 * x + -0.00705593
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

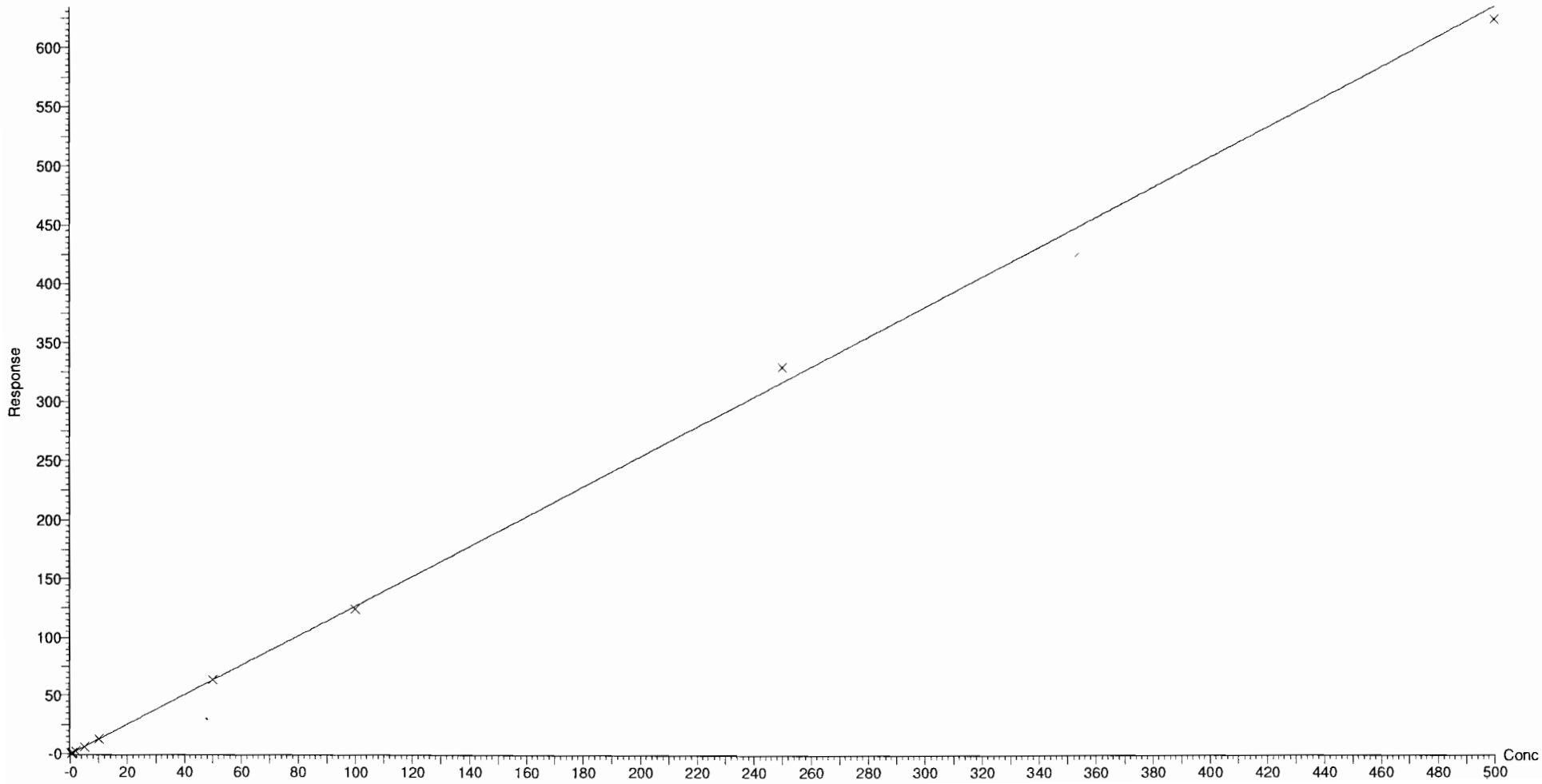
Compound name: PFPeS
Coefficient of Determination: R^2 = 0.999843
Calibration curve: 2.47661e-005 * x^2 + 1.72235 * x + -0.0438406
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

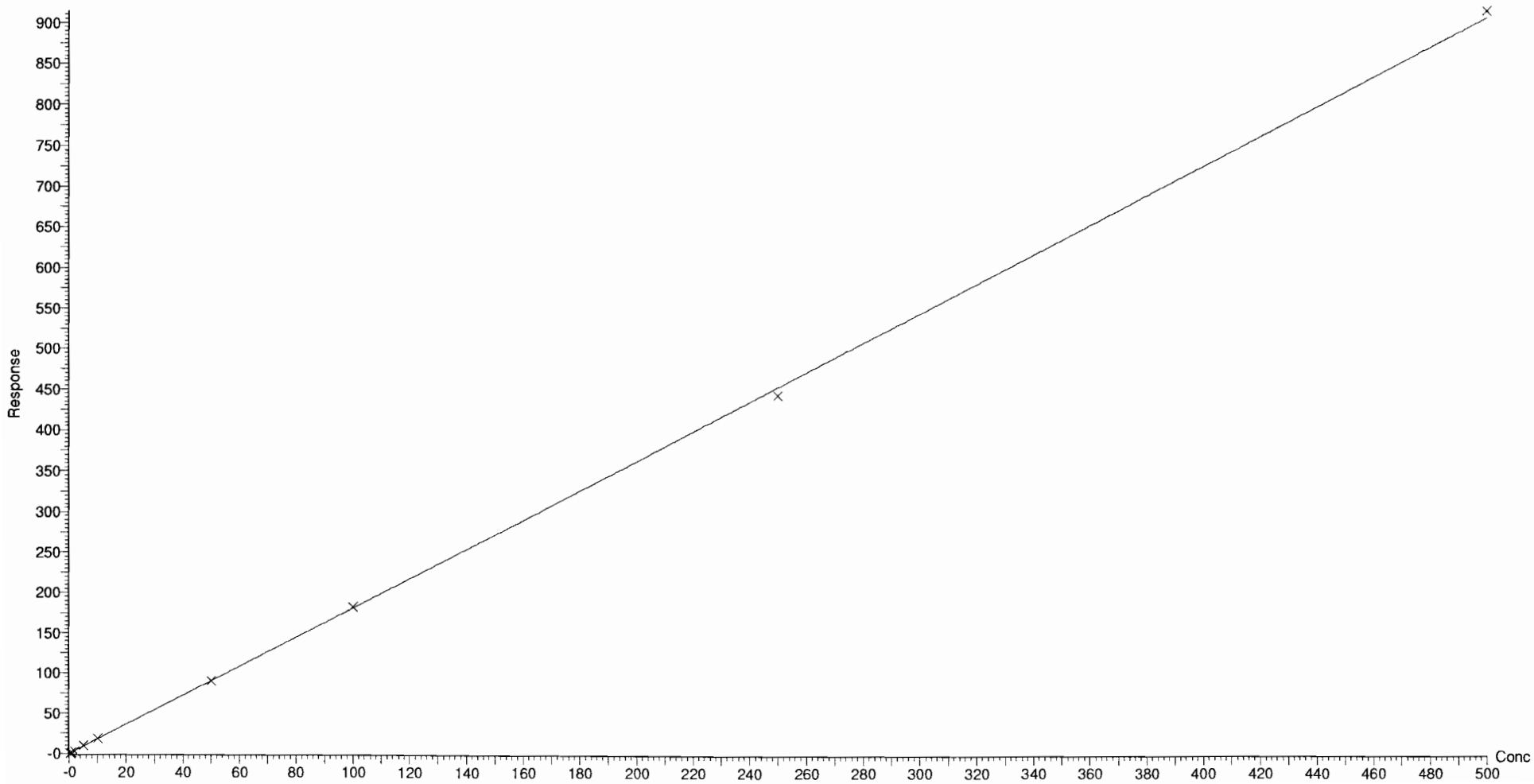
Compound name: PFHpA
Correlation coefficient: r = 0.999658, r^2 = 0.999317
Calibration curve: 1.26816 * x + -0.0148205
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

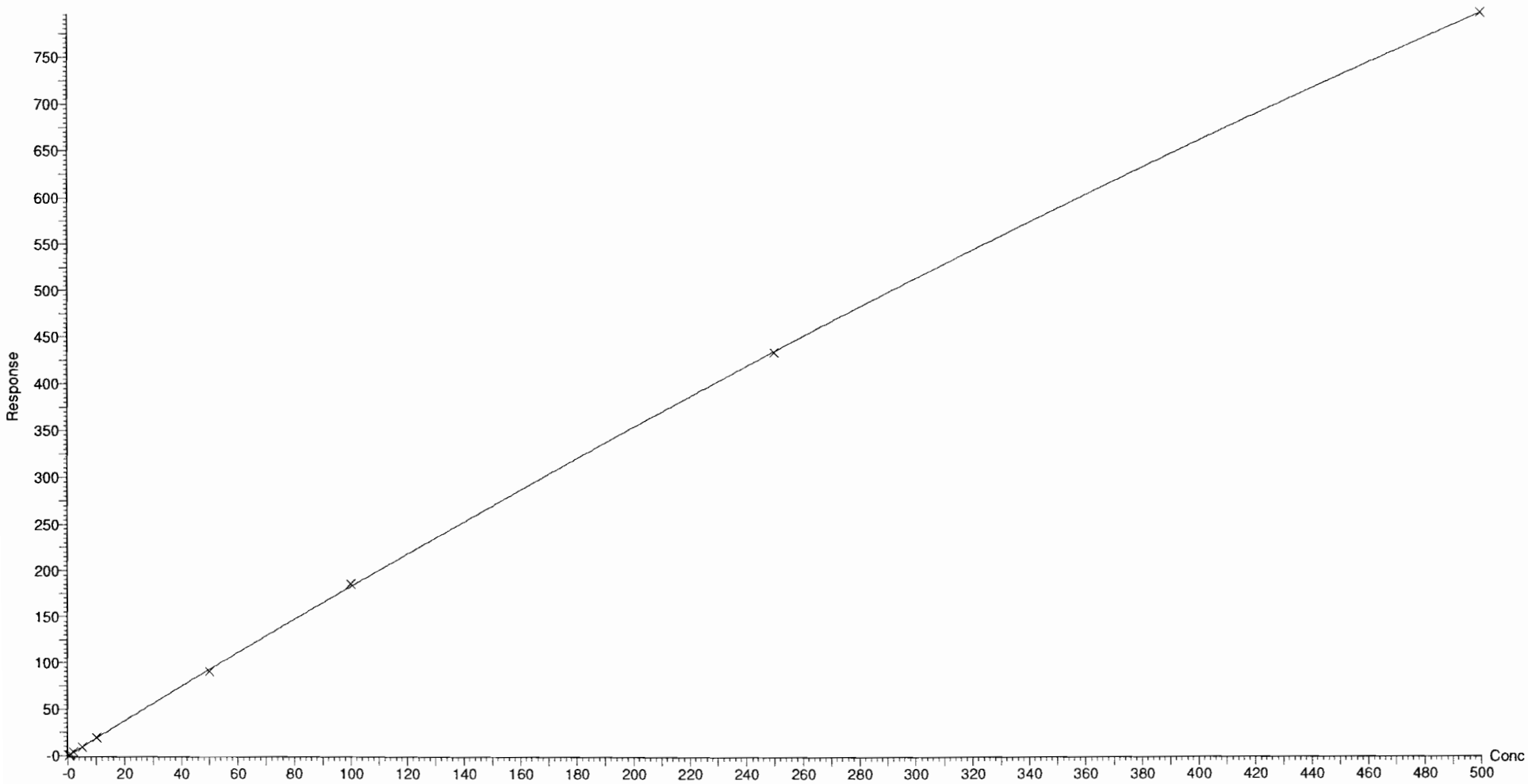
Compound name: L-PFHxS
Correlation coefficient: r = 0.999855, r^2 = 0.999710
Calibration curve: 1.81363 * x + -0.0614848
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

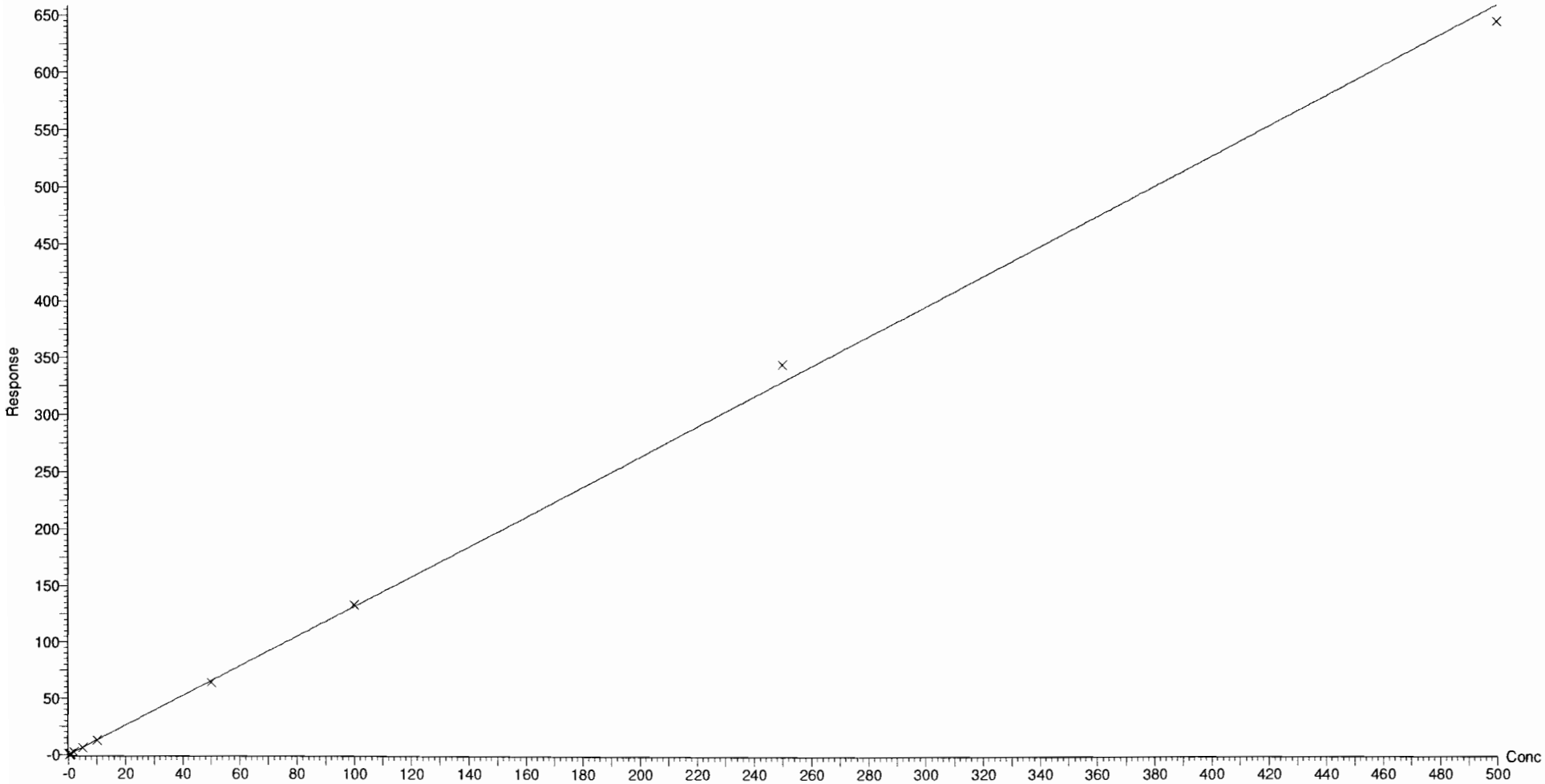
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.999882
Calibration curve: -0.00058997 * x^2 + 1.88665 * x + -0.0918609
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

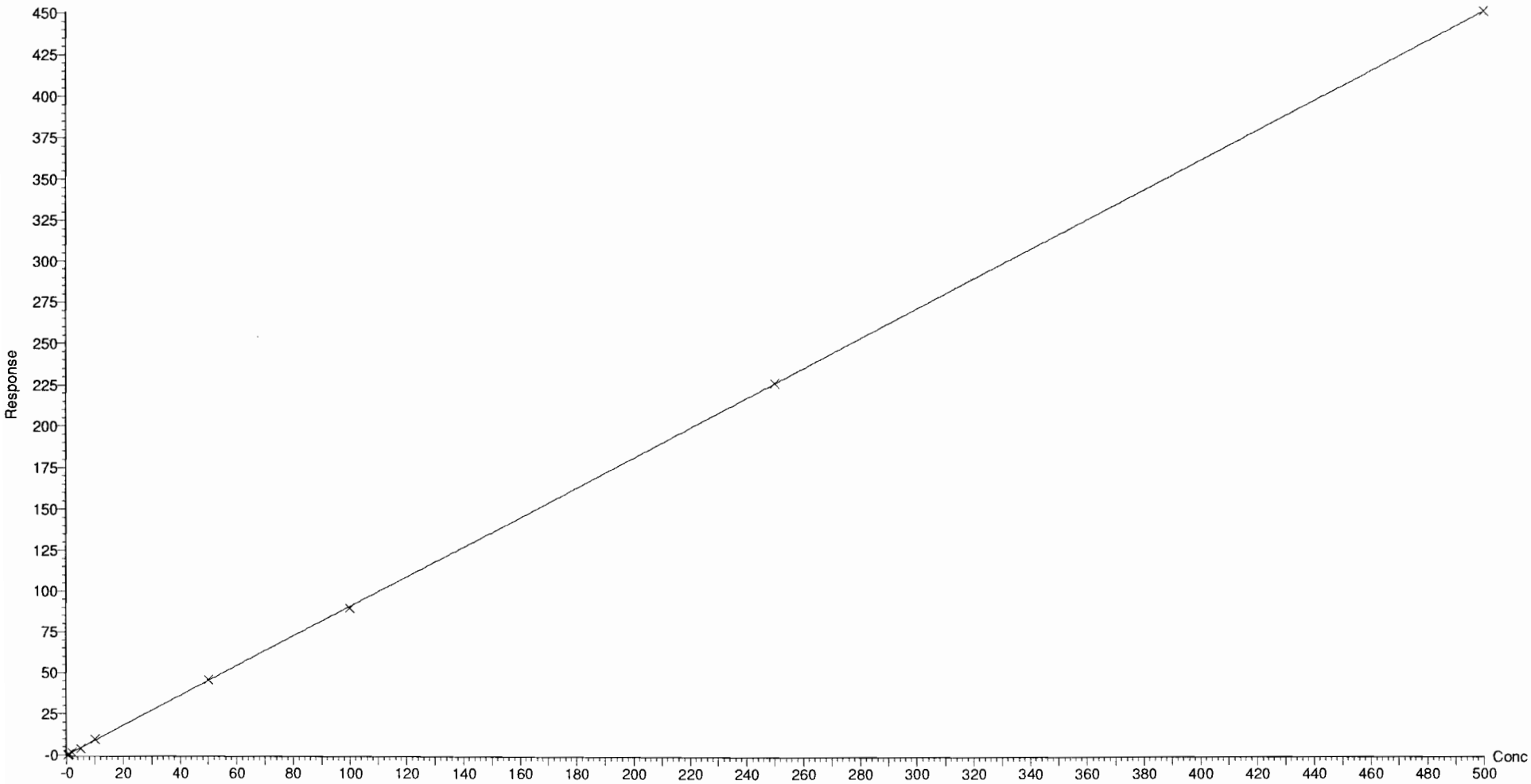
Compound name: L-PFOA
Correlation coefficient: r = 0.999539, r^2 = 0.999078
Calibration curve: 1.31643 * x + 0.00755267
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

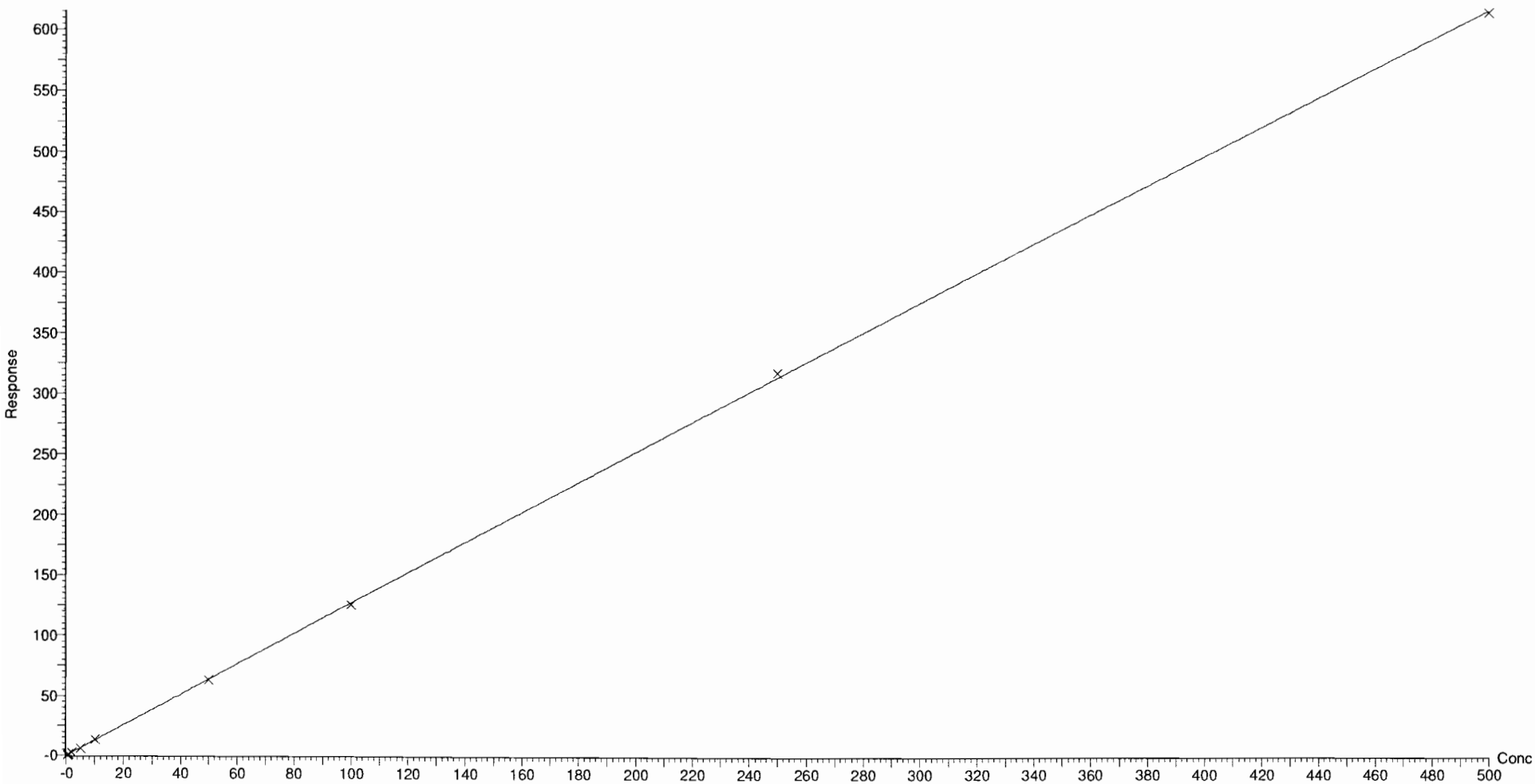
Compound name: PFHpS
Coefficient of Determination: R^2 = 0.999794
Calibration curve: -1.65212e-005 * x^2 + 0.910146 * x + -0.0078847
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

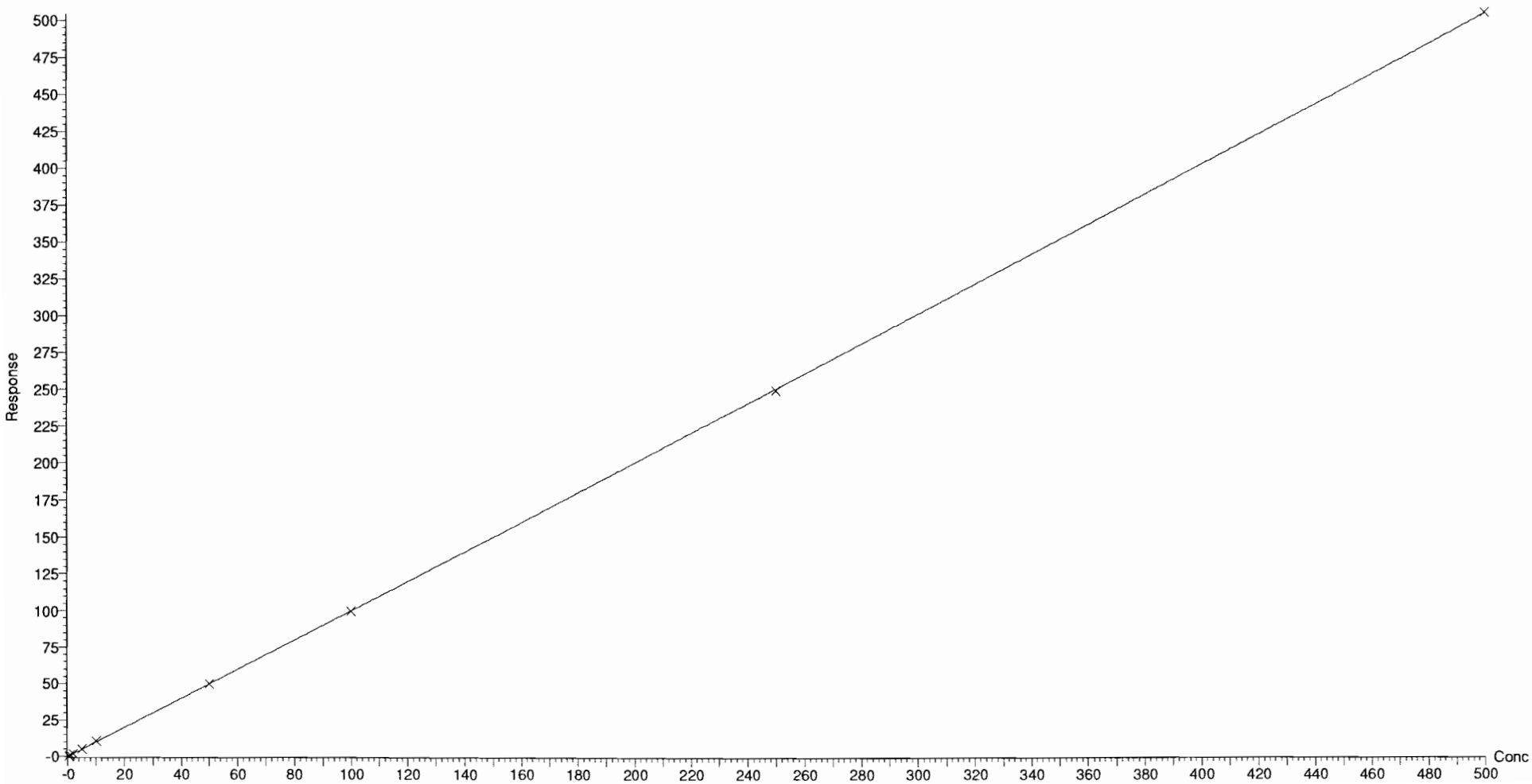
Compound name: PFNA
Coefficient of Determination: R^2 = 0.999870
Calibration curve: -9.88525e-005 * x^2 + 1.28097 * x + -0.0474186
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

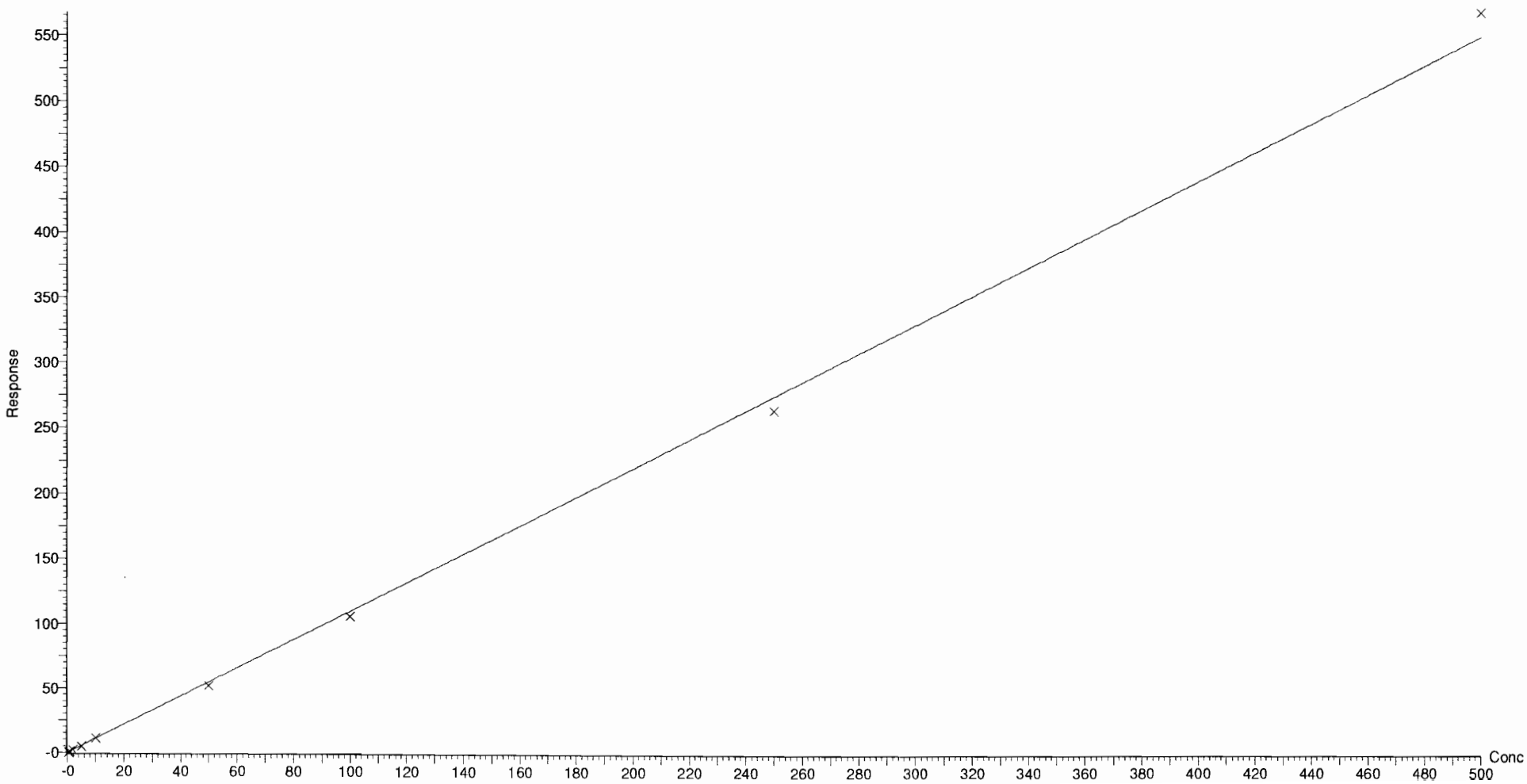
Compound name: PFOSA
Coefficient of Determination: R^2 = 0.999907
Calibration curve: 2.08895e-005 * x^2 + 0.997392 * x + -0.0532758
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

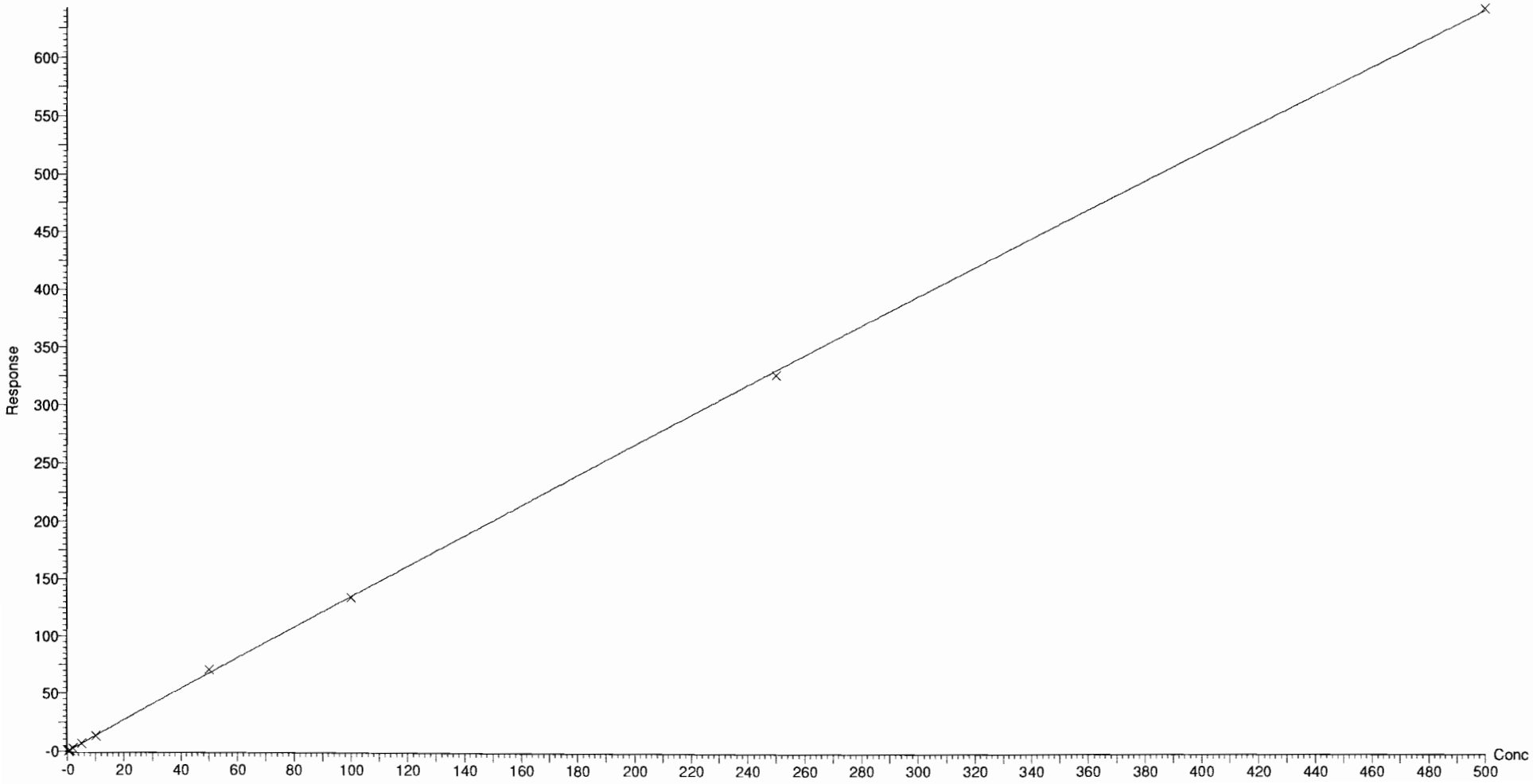
Compound name: L-PFOS
Correlation coefficient: r = 0.999273, r^2 = 0.998547
Calibration curve: 1.09853 * x + -0.0356469
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

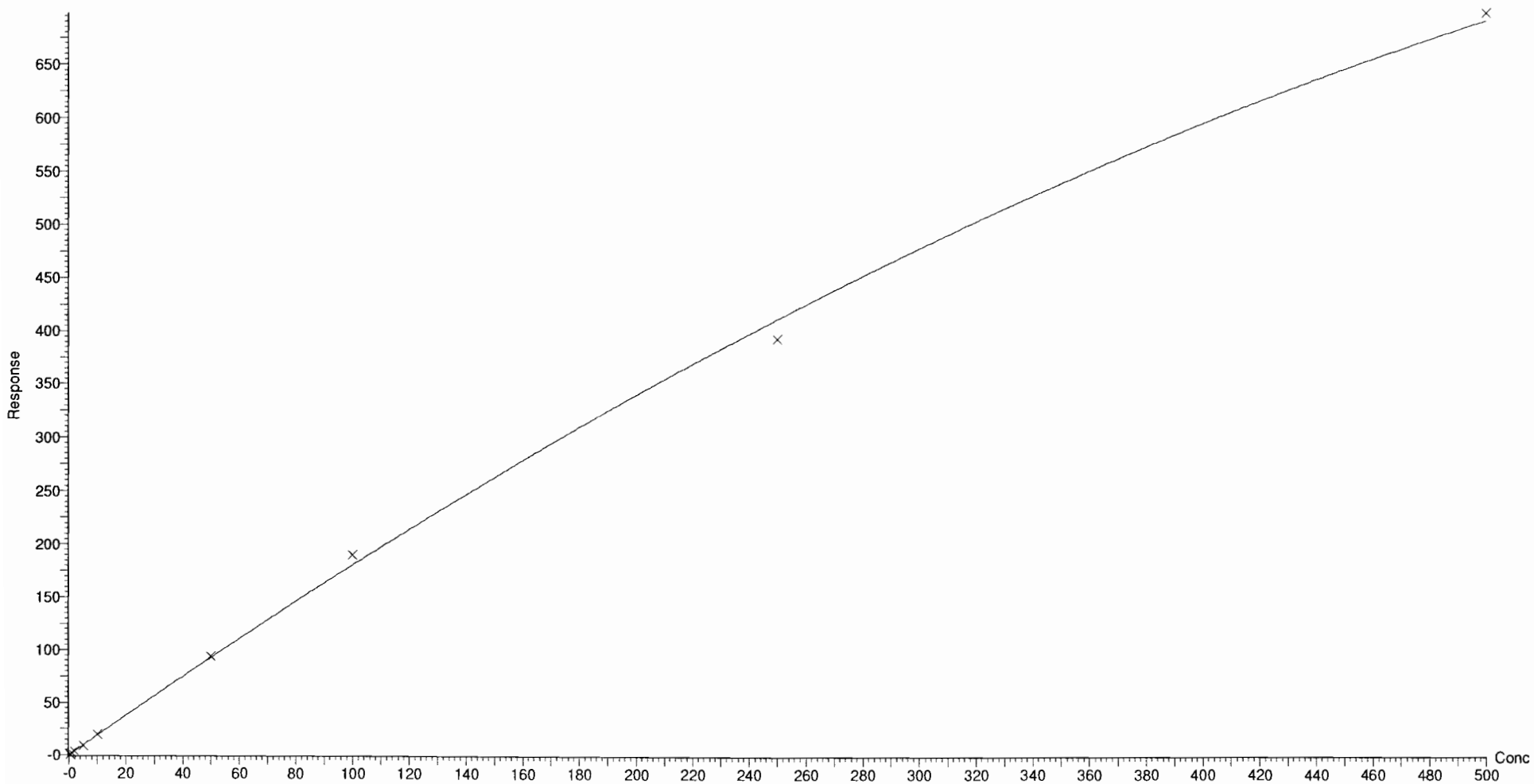
Compound name: PFDA
Coefficient of Determination: R^2 = 0.999837
Calibration curve: -0.000171782 * x^2 + 1.36742 * x + 0.0333375
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

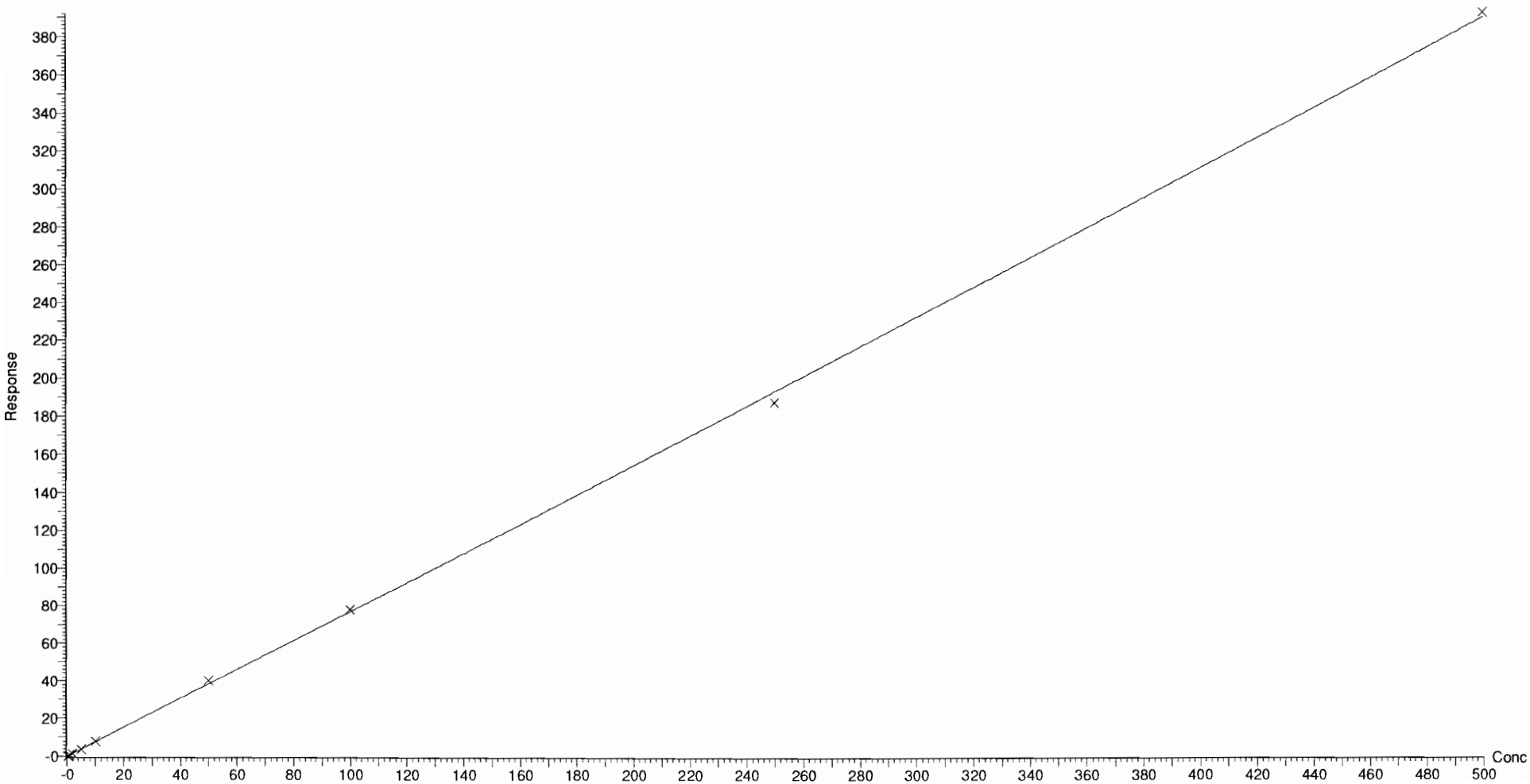
Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.998729
Calibration curve: -0.00105947 * x^2 + 1.91181 * x + -0.0807107
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

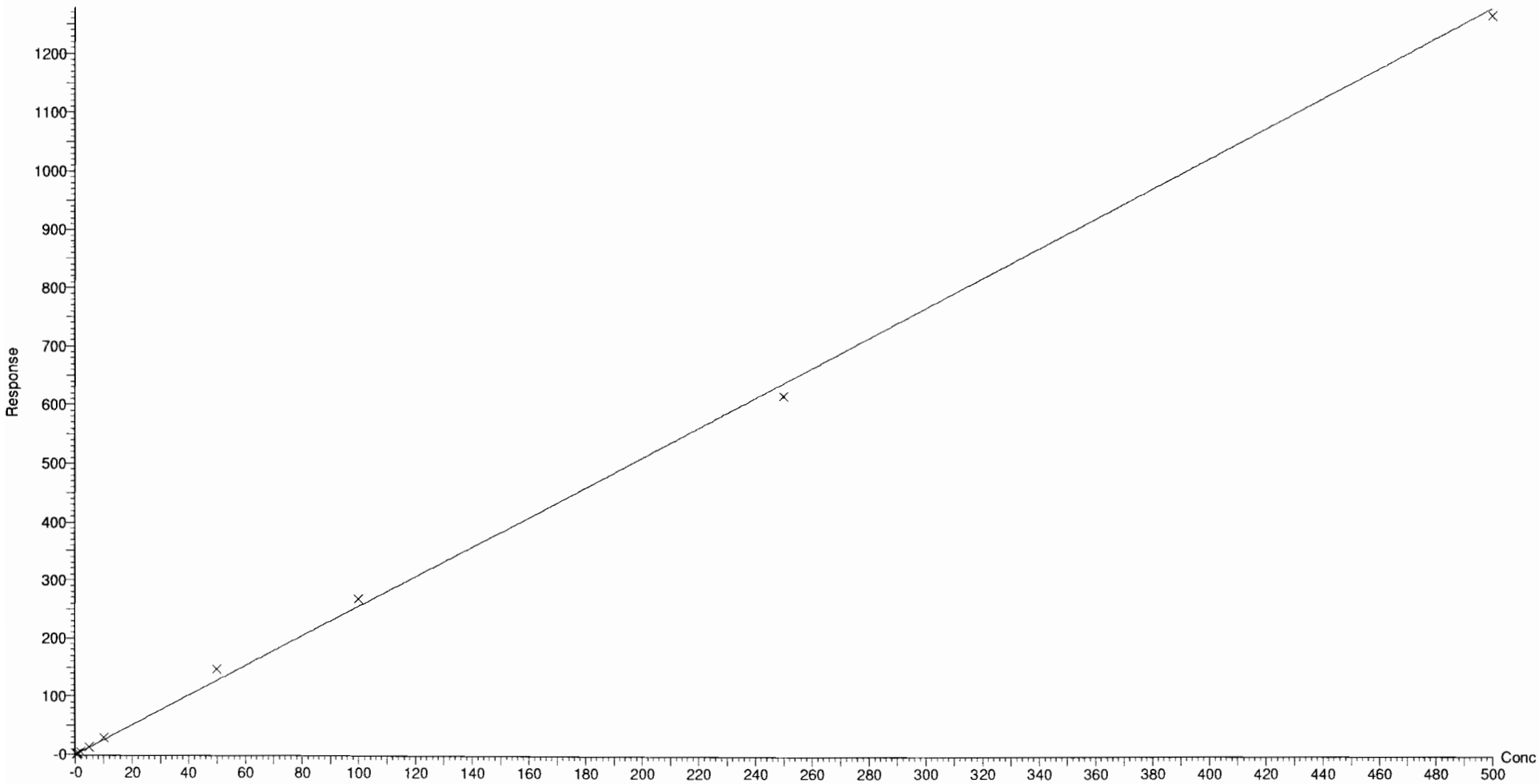
Compound name: PFNS
Coefficient of Determination: R^2 = 0.999541
Calibration curve: 2.66918e-005 * x^2 + 0.766203 * x + -0.0543765
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

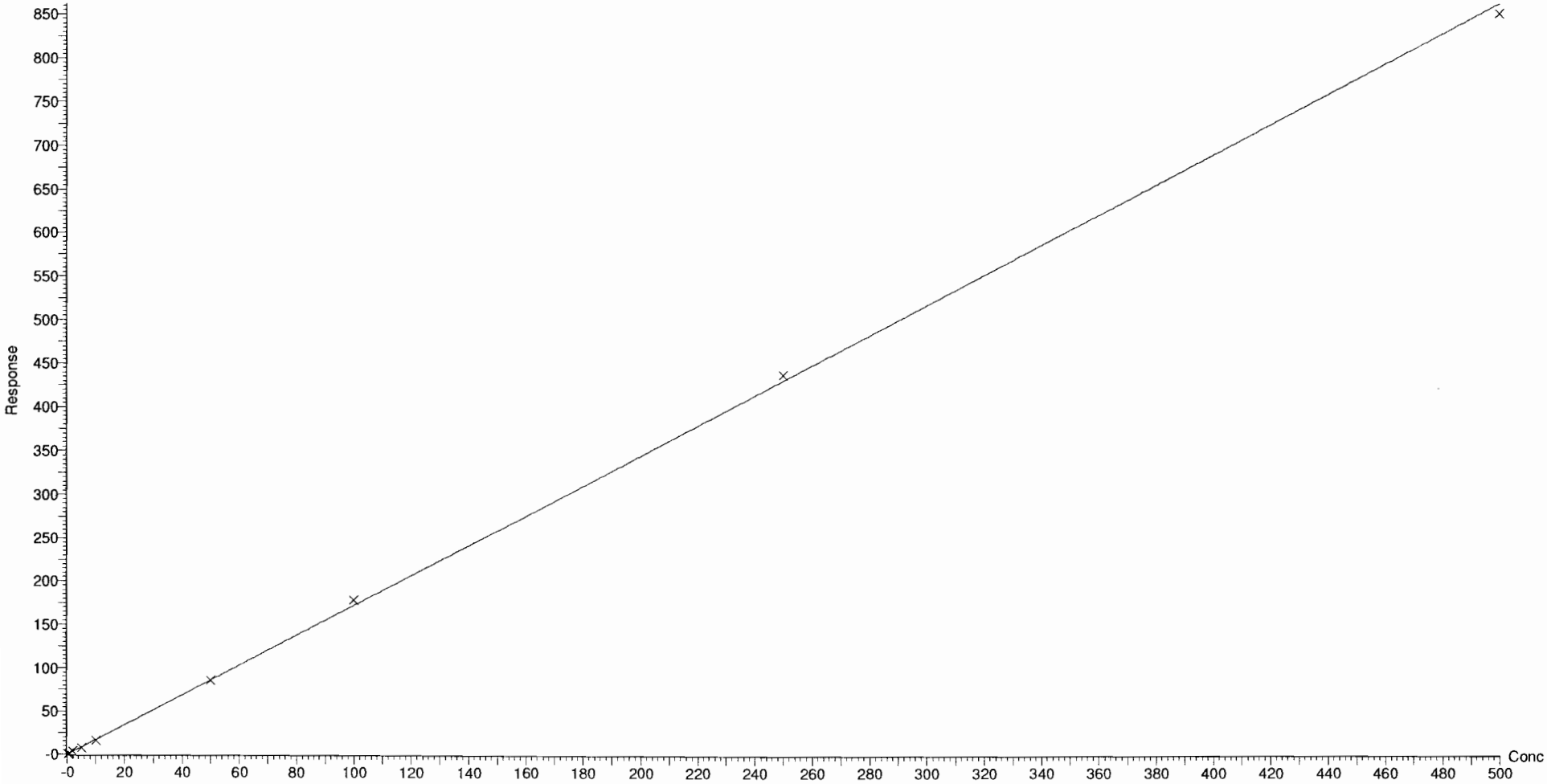
Compound name: L-MeFOSAA
Correlation coefficient: r = 0.998941, r^2 = 0.997883
Calibration curve: 2.55635 * x + -0.0283726
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:40:45 Pacific Standard Time

Compound name: L-EtFOSAA
Correlation coefficient: r = 0.999796, r^2 = 0.999591
Calibration curve: 1.72448 * x + -0.0957261
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

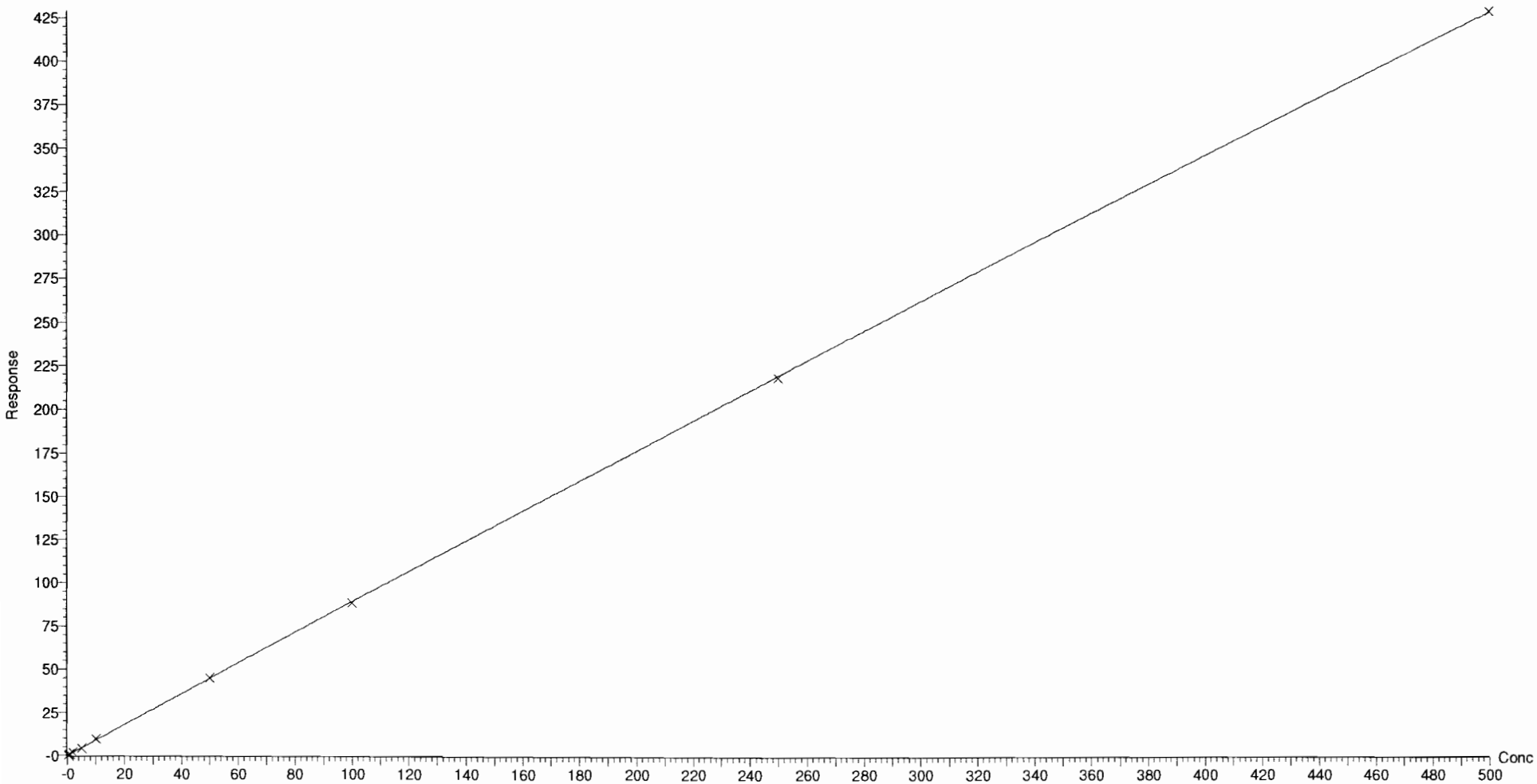


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

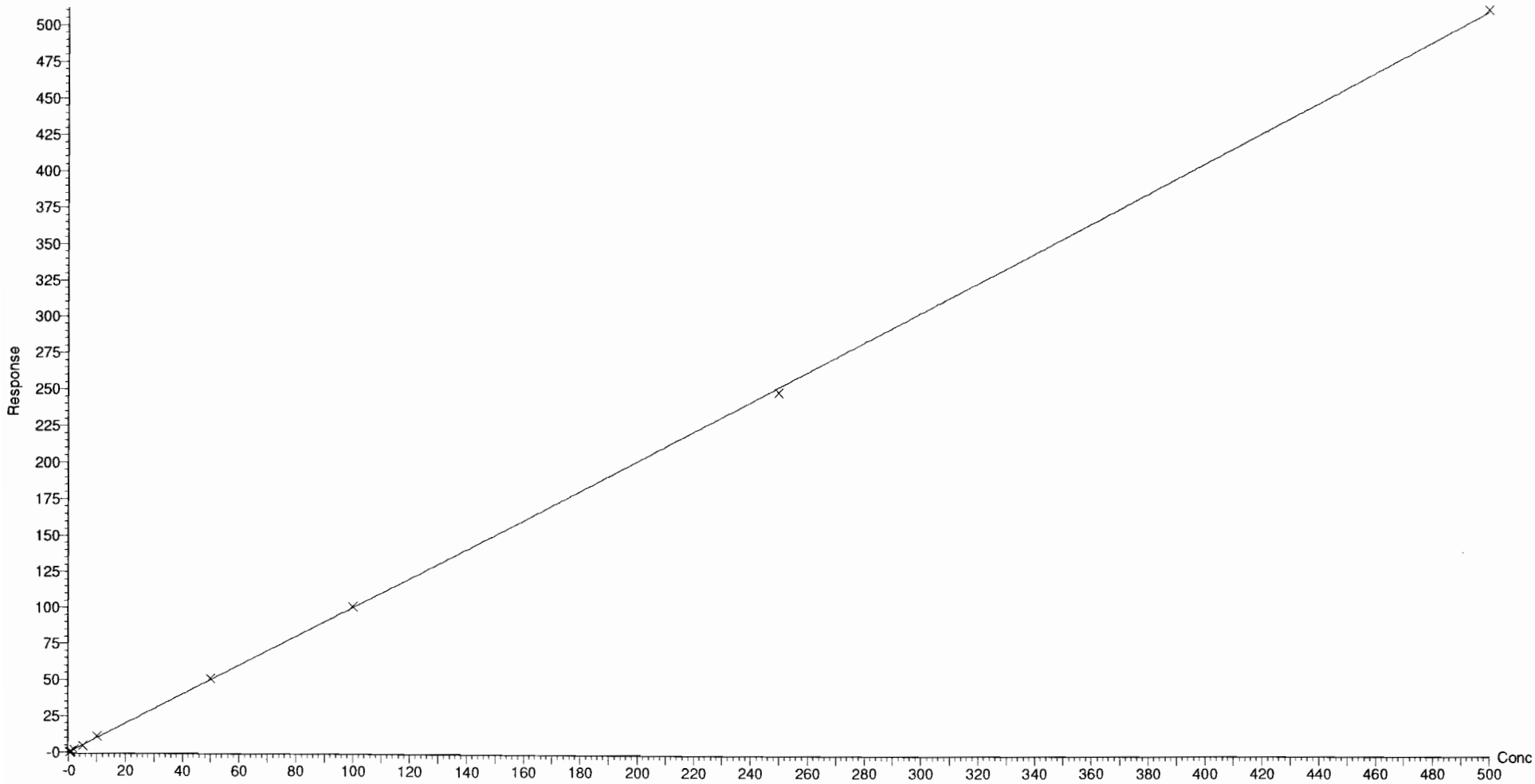
Compound name: PFUdA
Coefficient of Determination: R^2 = 0.999864
Calibration curve: -8.93727e-005 * x^2 + 0.900888 * x + 0.0107343
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

Compound name: PFDS
Coefficient of Determination: R^2 = 0.999726
Calibration curve: 4.11594e-005 * x^2 + 1.00001 * x + 0.0552739
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

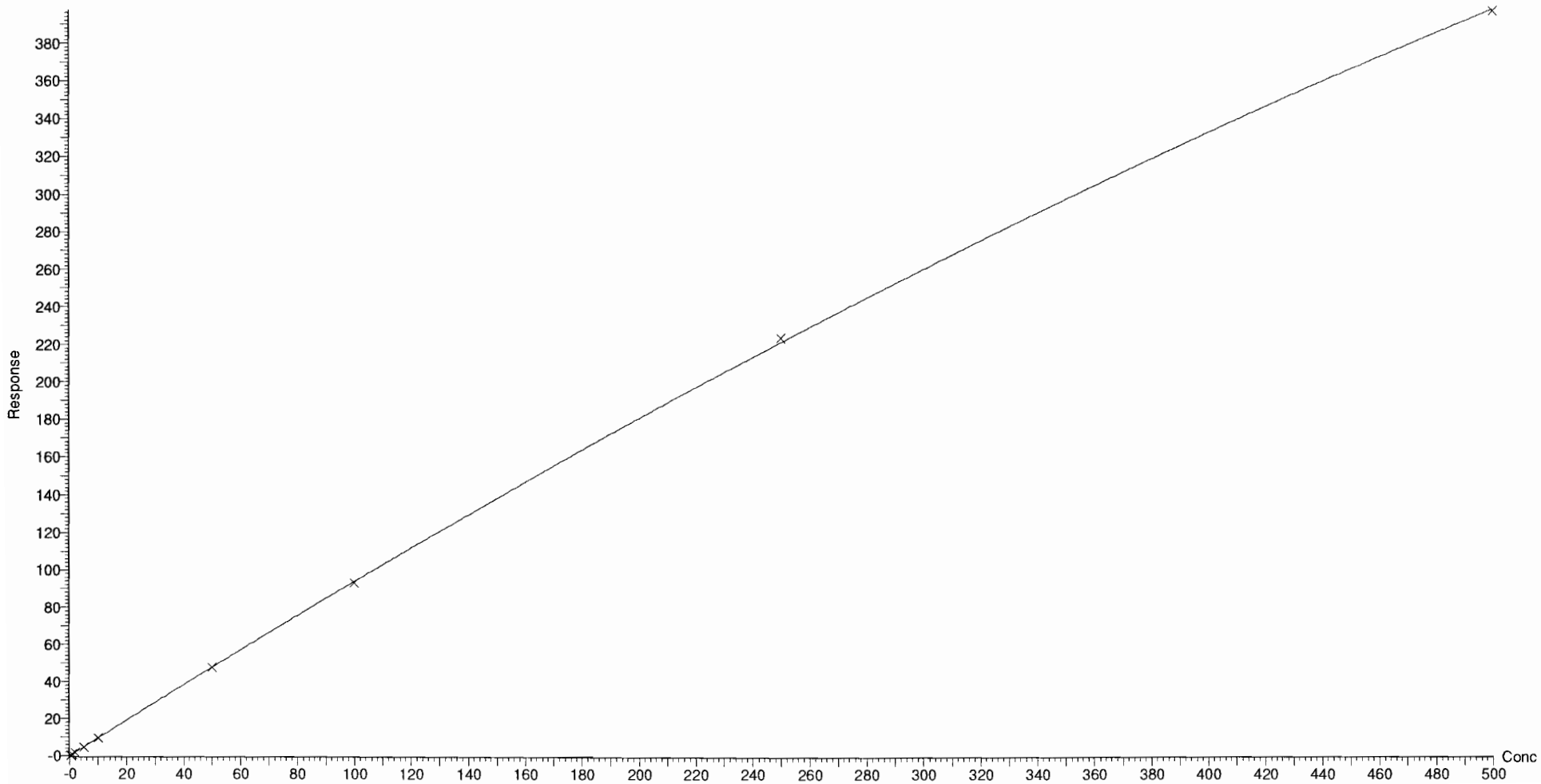


Vista Analytical Laboratory Q1

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999932
Calibration curve: -0.000362631 * x^2 + 0.976516 * x + -0.0381503
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

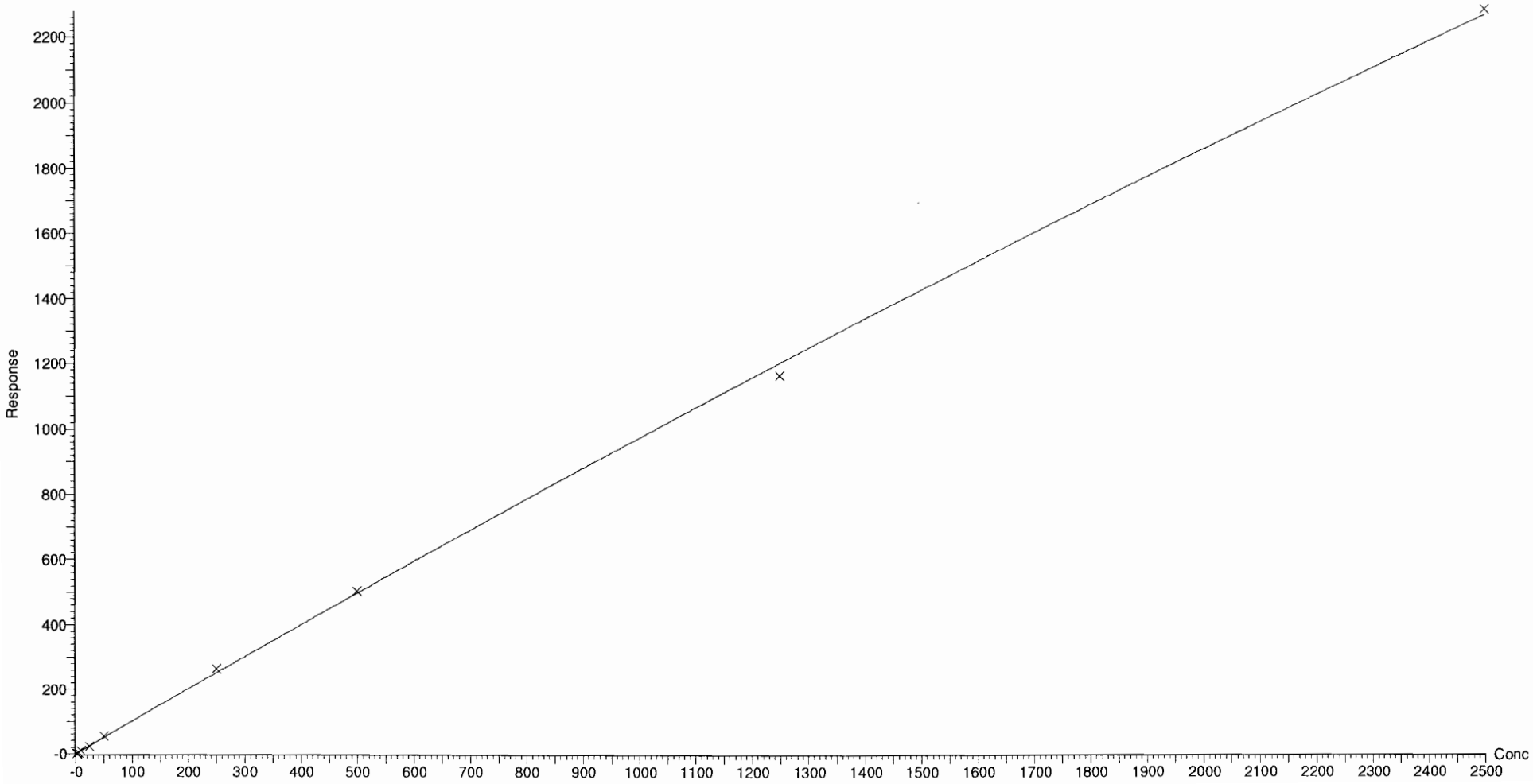


Vista Analytical Laboratory Q1

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

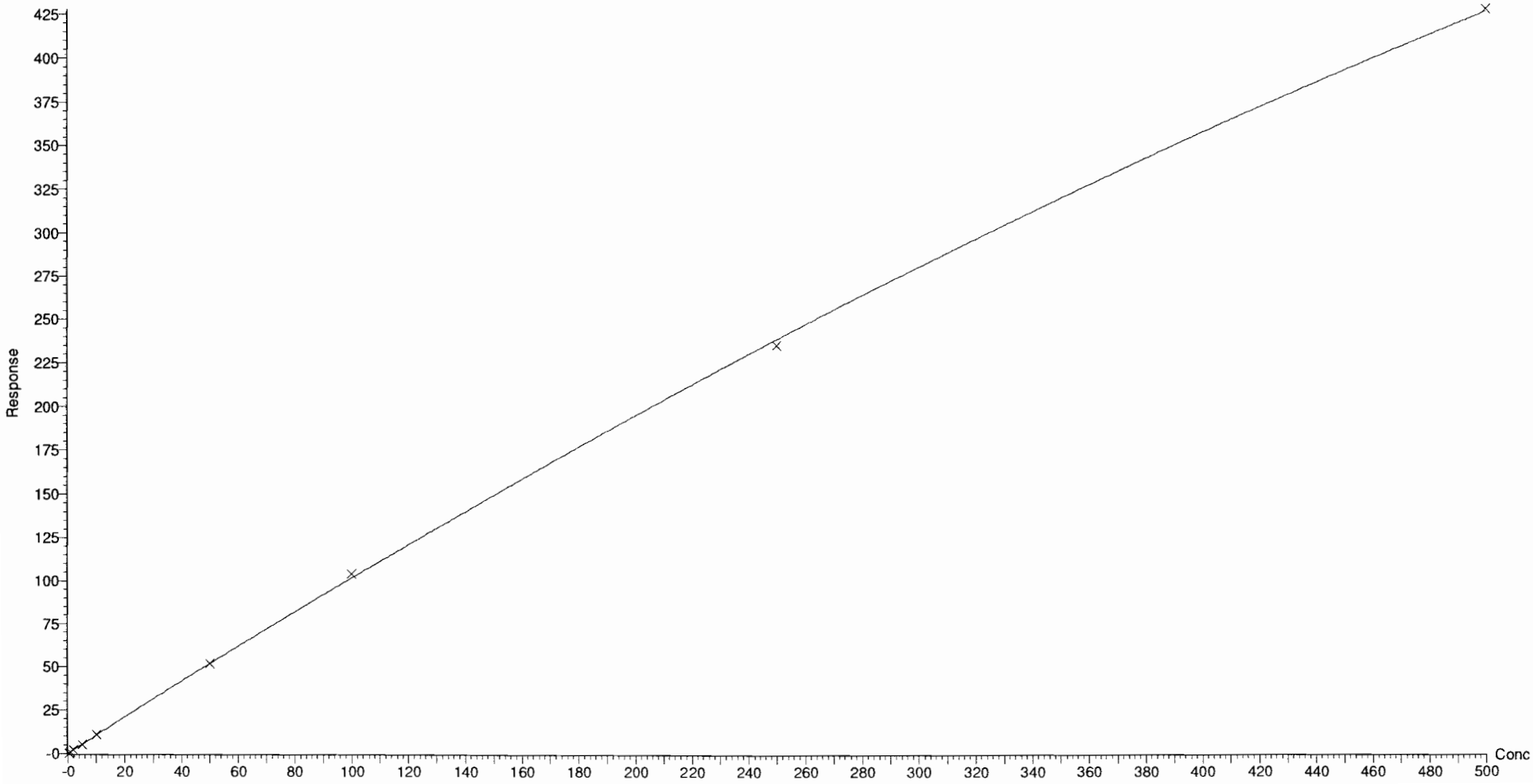
Compound name: N-MeFOSA
Coefficient of Determination: R^2 = 0.999371
Calibration curve: -4.55364e-005 * x^2 + 1.01929 * x + -0.0722985
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

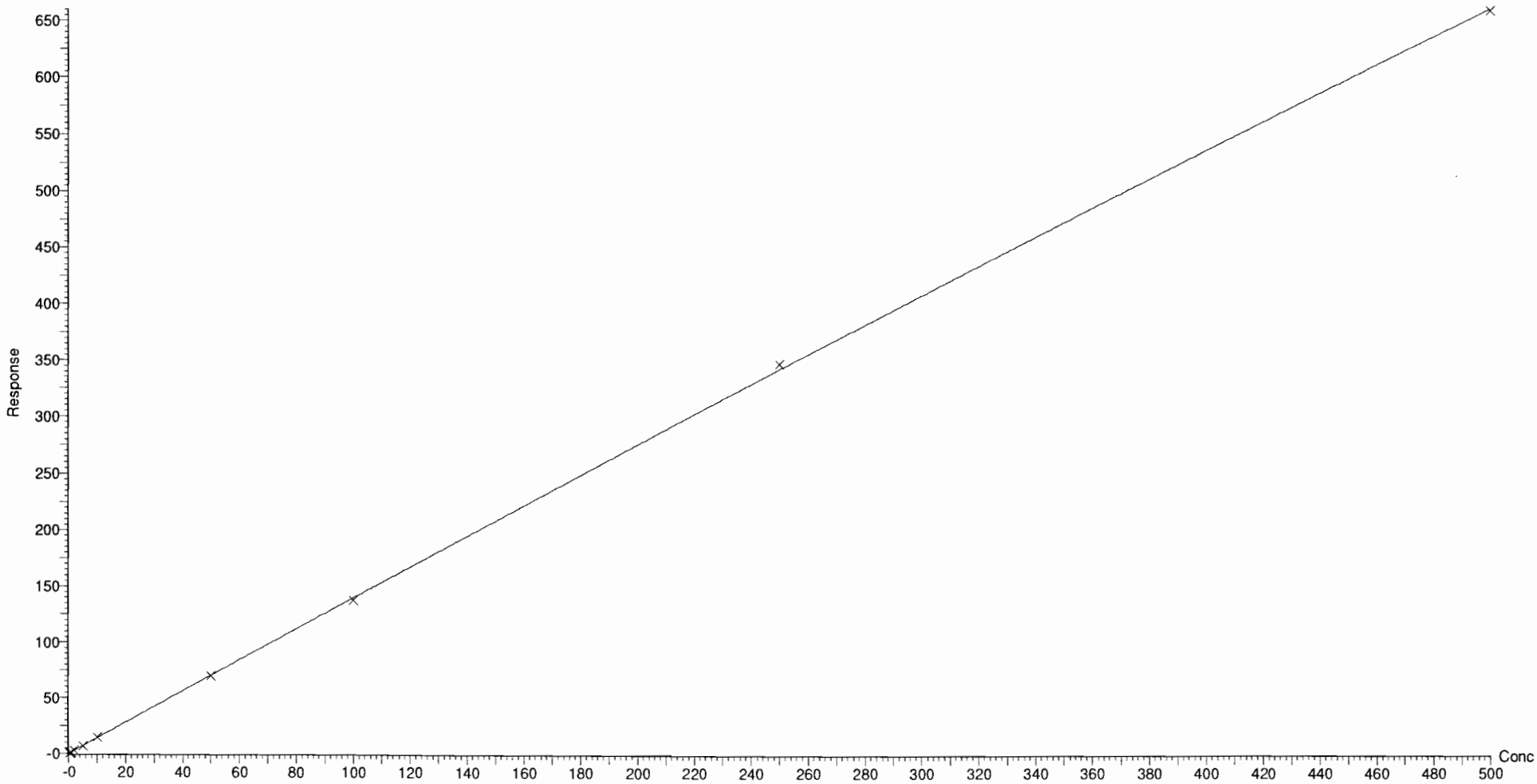
Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.999849
Calibration curve: -0.000409418 * x^2 + 1.05751 * x + 0.000185678
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

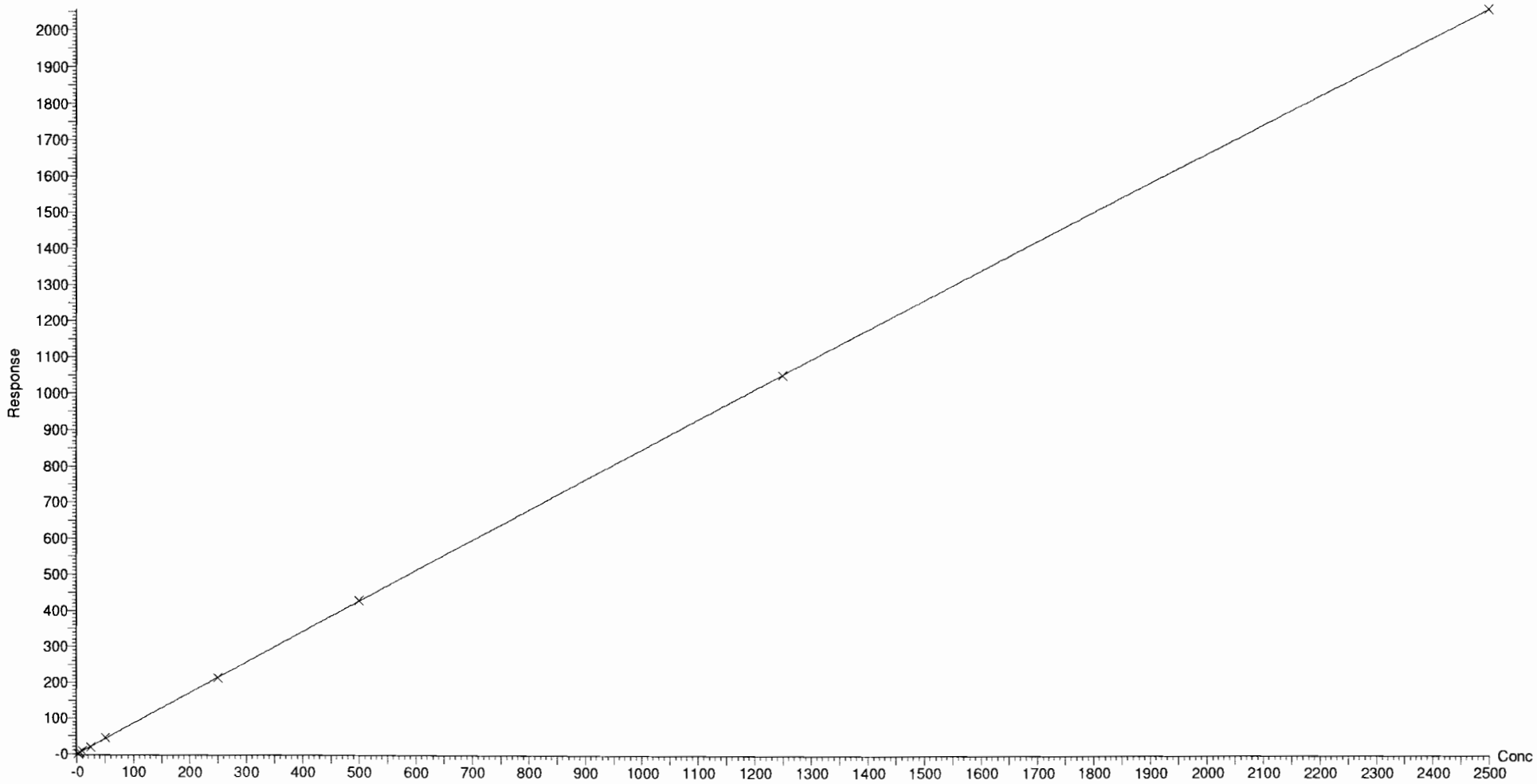
Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999884
Calibration curve: -0.000193395 * x^2 + 1.41743 * x + 0.00987699
Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

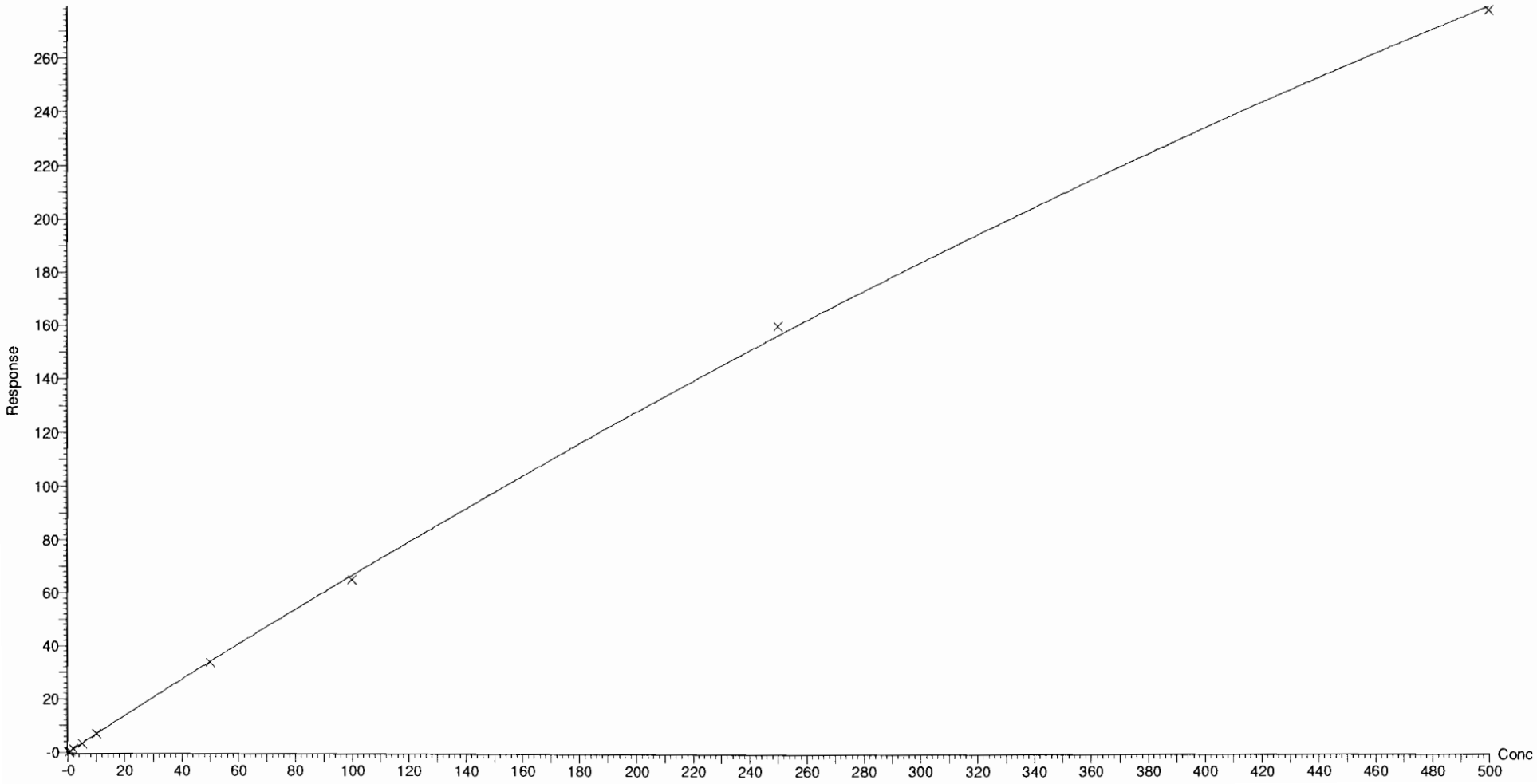
Compound name: N-EtFOSA
Coefficient of Determination: R^2 = 0.999903
Calibration curve: -1.62682e-005 * x^2 + 0.863415 * x + -0.286178
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

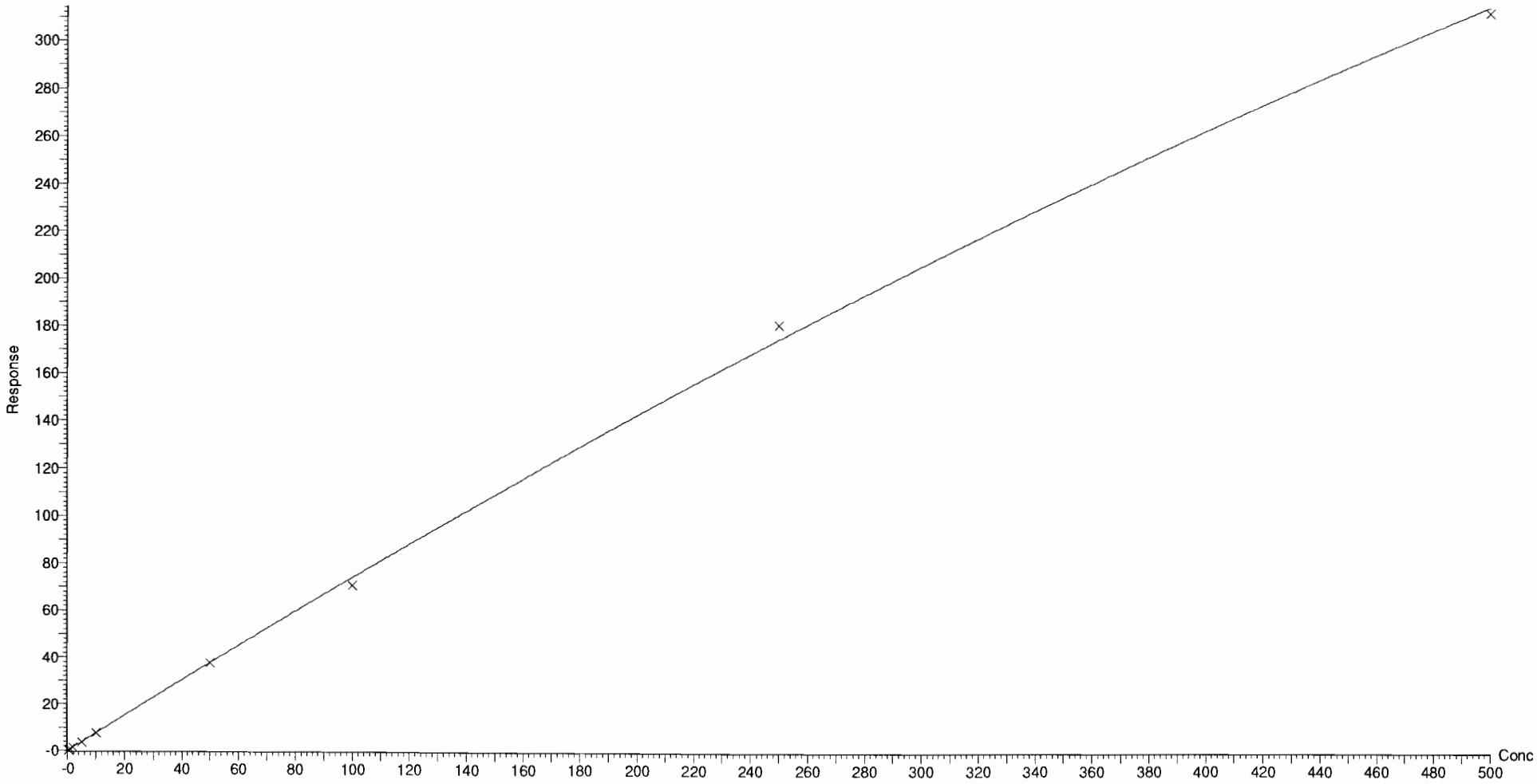
Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999728
Calibration curve: -0.000272751 * x^2 + 0.694489 * x + 0.0545299
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

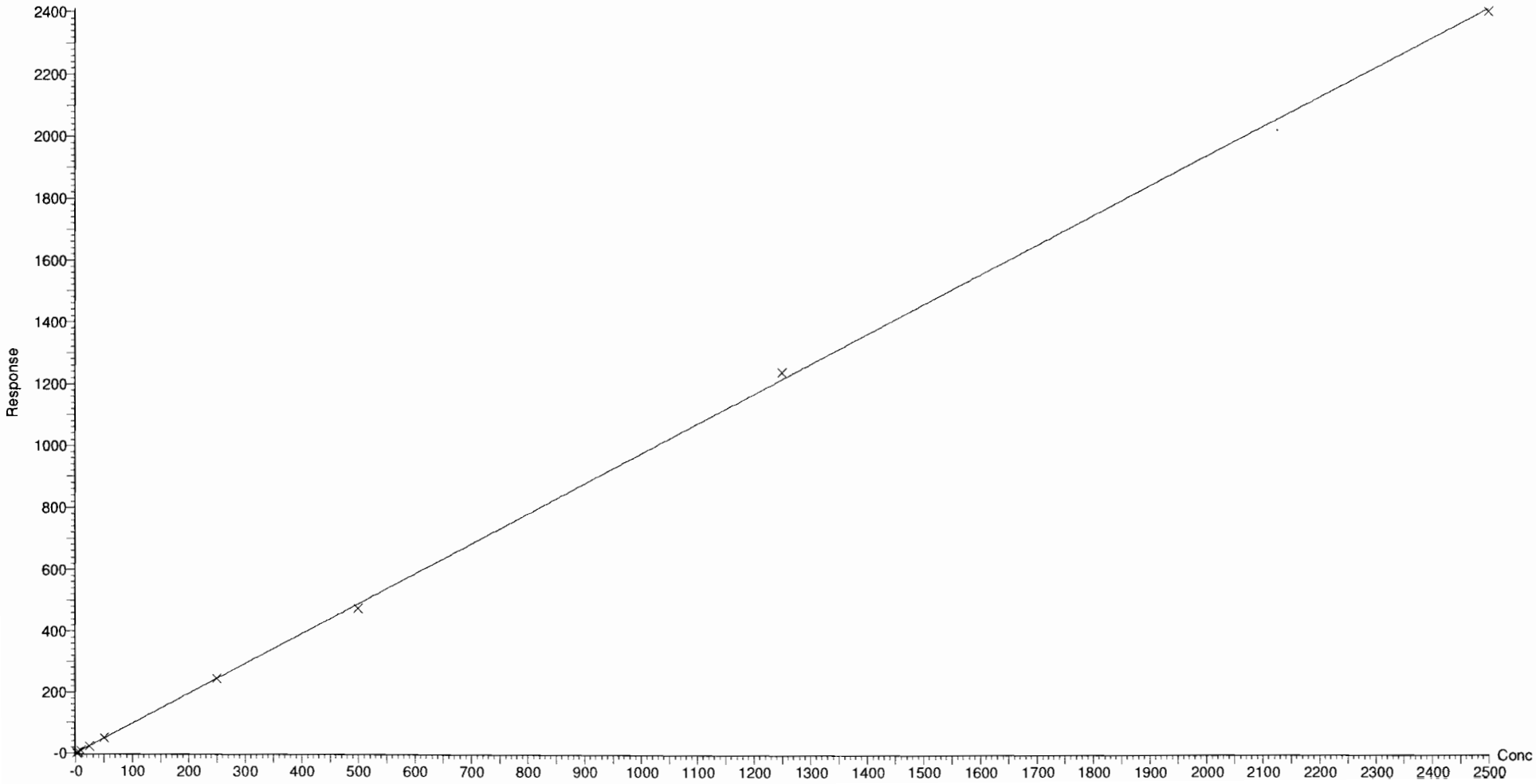
Compound name: PFODA
Coefficient of Determination: R^2 = 0.999315
Calibration curve: -0.000282051 * x^2 + 0.769717 * x + -0.019598
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

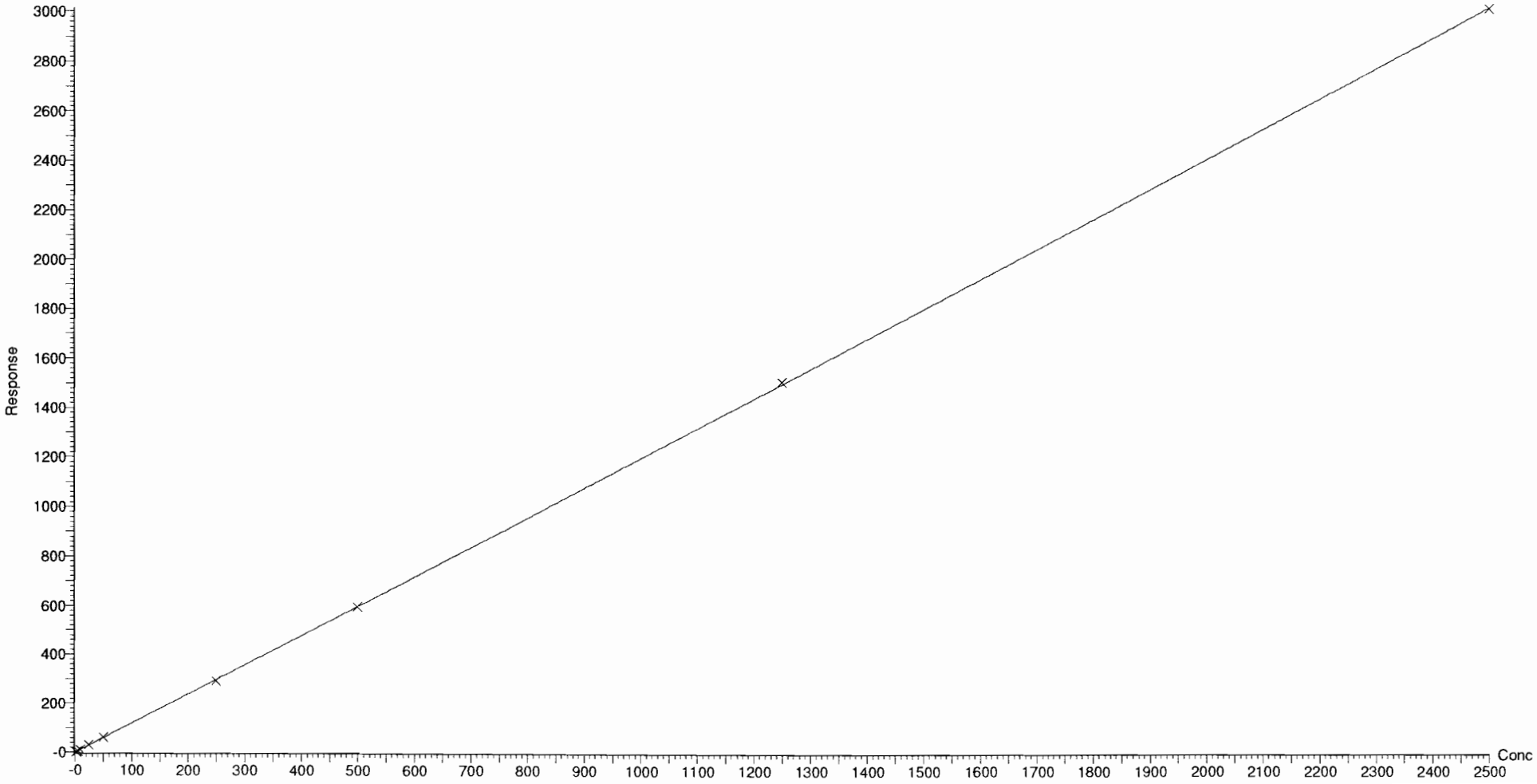
Compound name: N-MeFOSE
Coefficient of Determination: R^2 = 0.999754
Calibration curve: -7.73241e-006 * x^2 + 0.983924 * x + -0.166991
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:41:04 Pacific Standard Time

Compound name: N-EtFOSE
Coefficient of Determination: R^2 = 0.999952
Calibration curve: 5.83647e-006 * x^2 + 1.19188 * x + -0.106376
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory

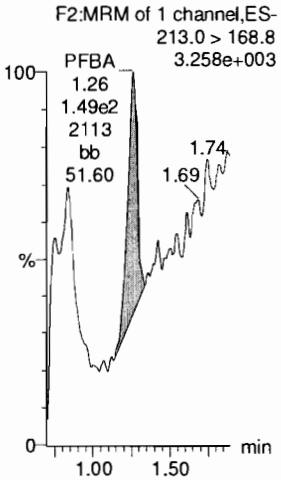
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

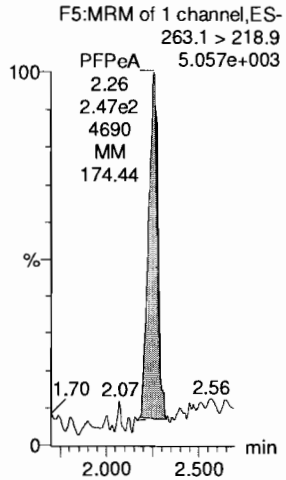
Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 19 Feb 2019 14:49:50
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_2, Date: 19-Feb-2019, Time: 16:50:09, ID: ST190219M2-1 PFC CS-2 19B1301, Description: PFC CS-2 19B1301

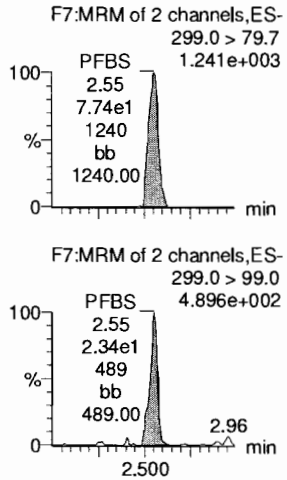
PFBA



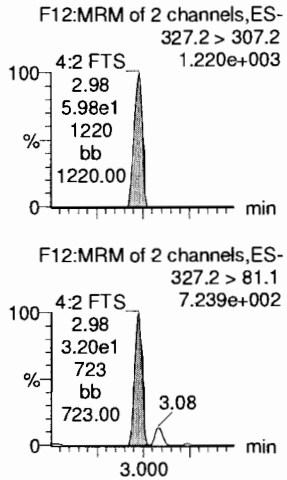
PFPeA



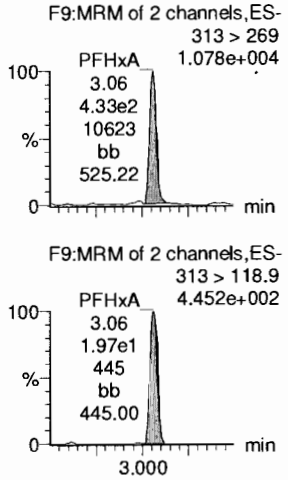
PFBS



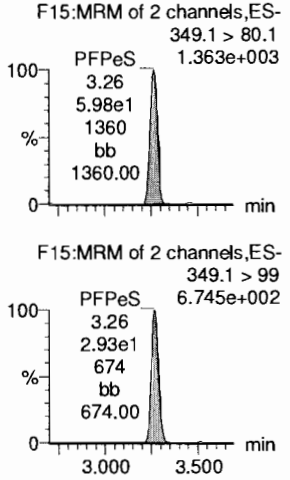
4:2 FTS



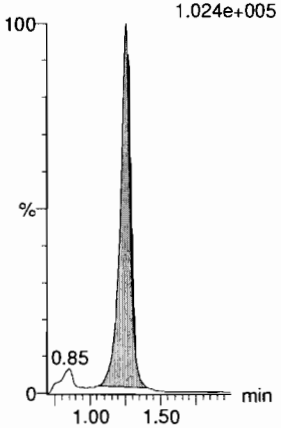
PFHxA



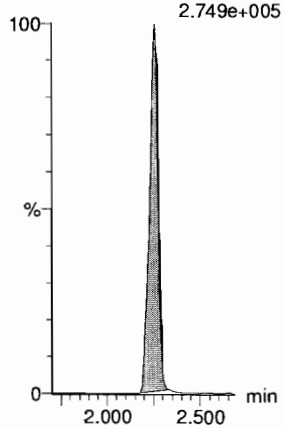
PFPeS



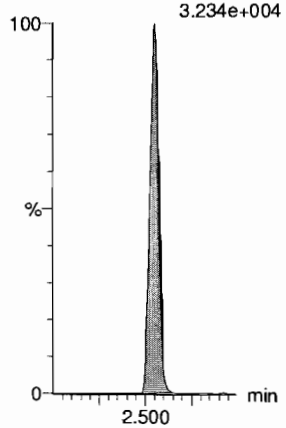
13C3-PFBA



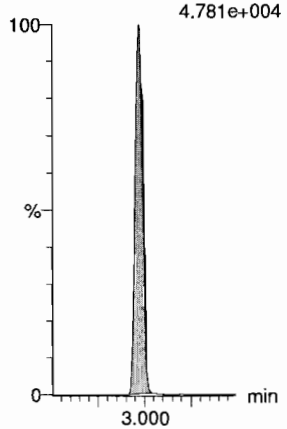
13C3-PFPeA



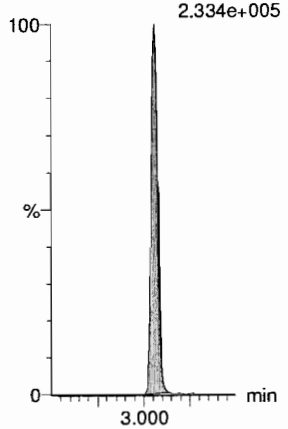
13C3-PFBS



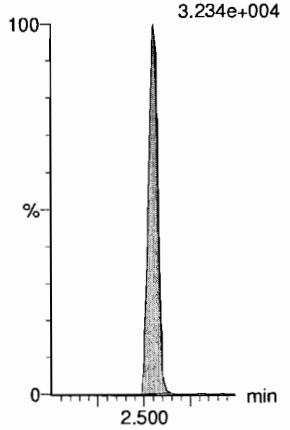
13C2-4:2 FTS



13C2-PFHxA



13C3-PFBS

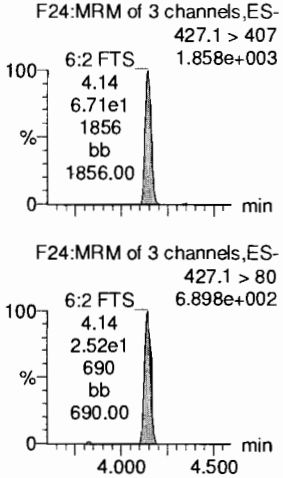


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

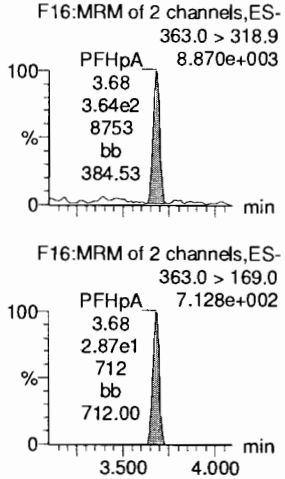
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_2, Date: 19-Feb-2019, Time: 16:50:09, ID: ST190219M2-1 PFC CS-2 19B1301, Description: PFC CS-2 19B1301

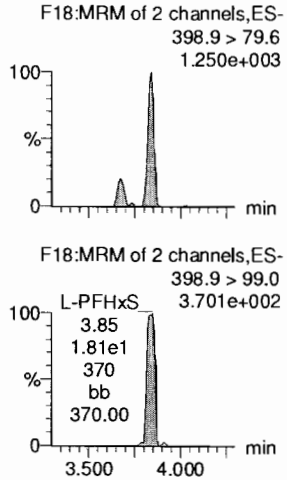
6:2 FTS



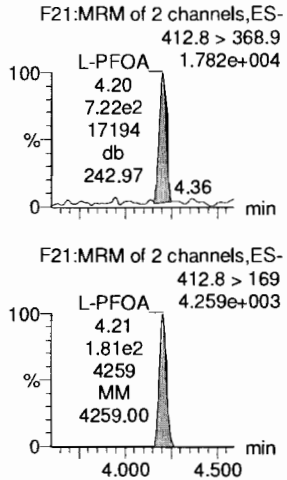
PFHpA



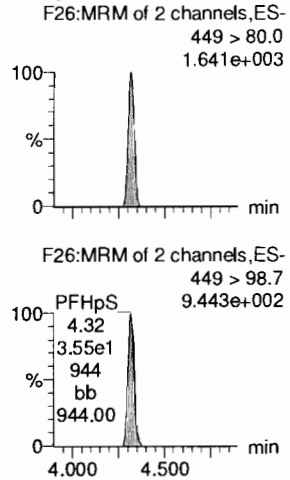
L-PFHxS



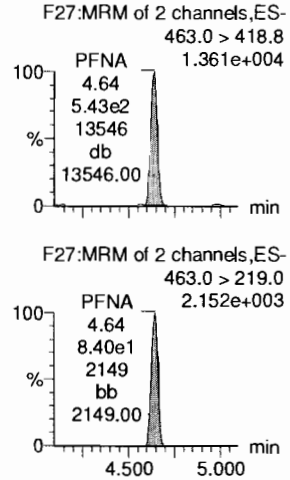
L-PFOA



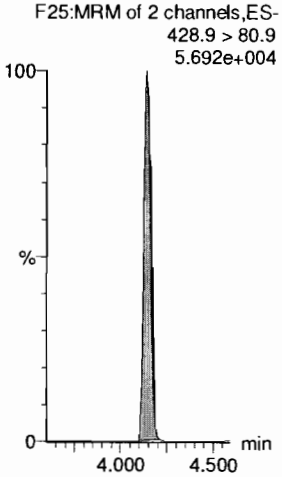
PFHpS



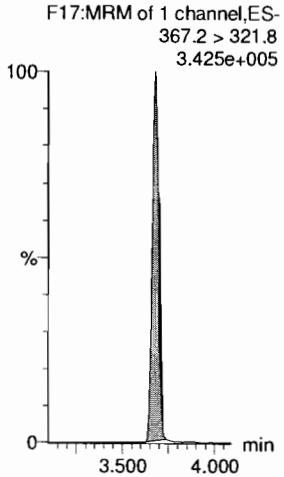
PFNA



13C2-6:2 FTS



13C4-PFHpA



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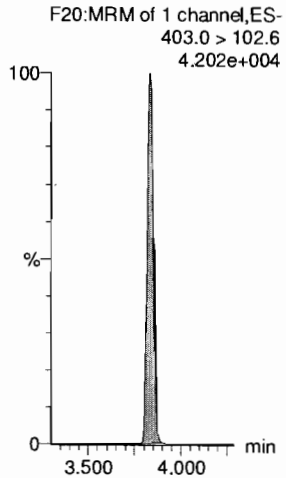

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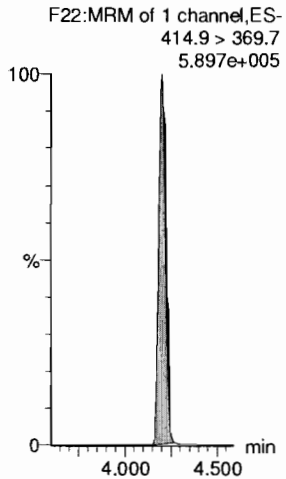

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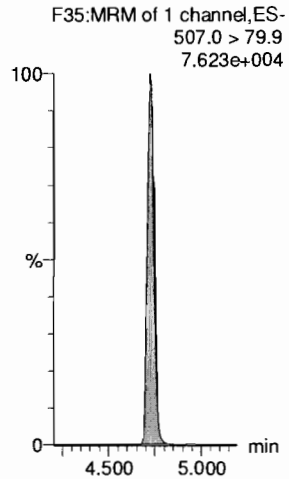

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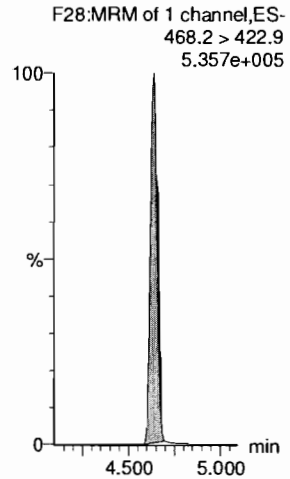

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

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Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_2, Date: 19-Feb-2019, Time: 16:50:09, ID: ST190219M2-1 PFC CS-2 19B1301, Description: PFC CS-2 19B1301

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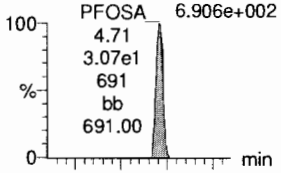

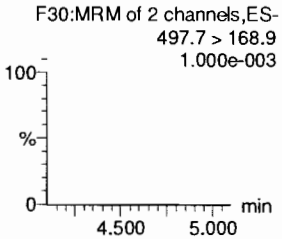

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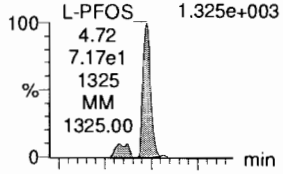

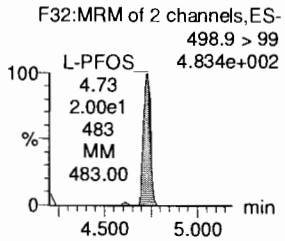

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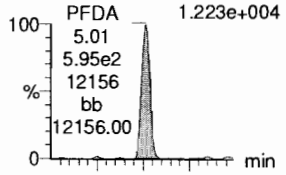
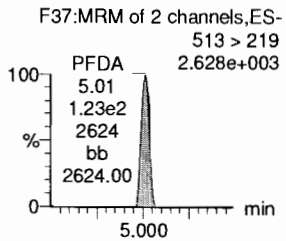
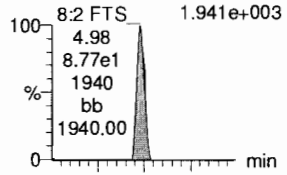
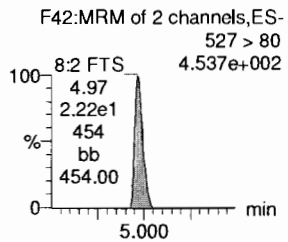




8:2 FTS





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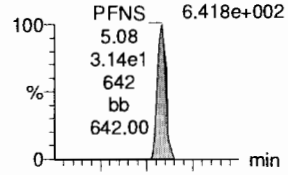

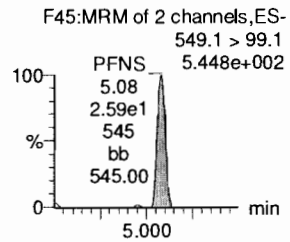

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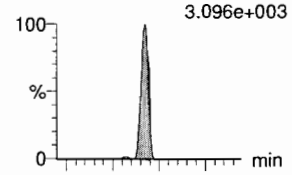

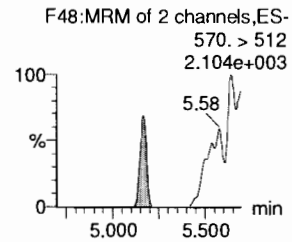

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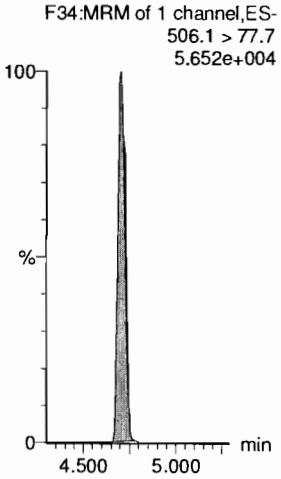

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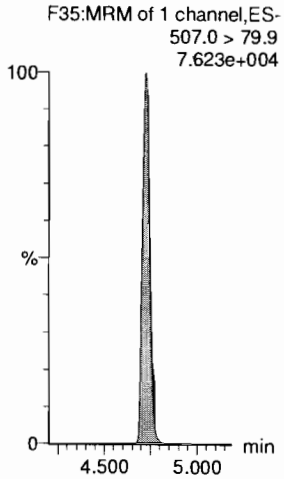

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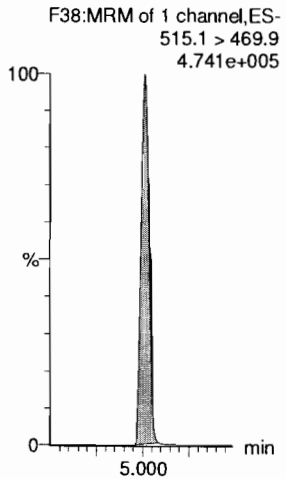

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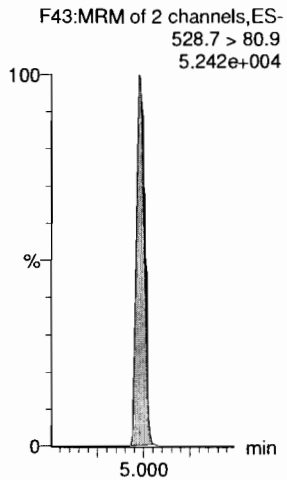

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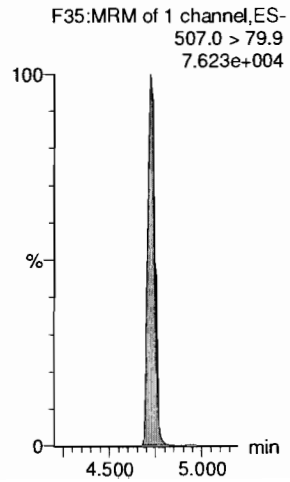

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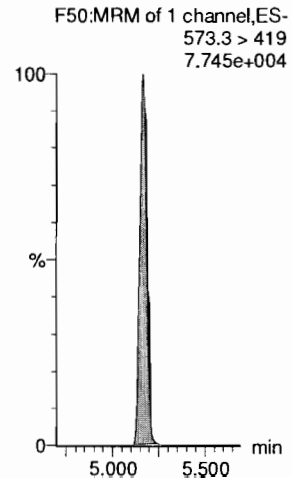

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Name: 190219M2_2, Date: 19-Feb-2019, Time: 16:50:09, ID: ST190219M2-1 PFC CS-2 19B1301, Description: PFC CS-2 19B1301

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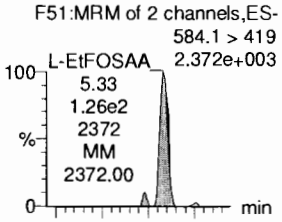

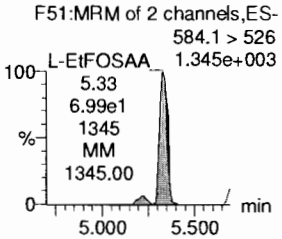

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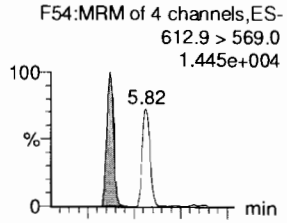

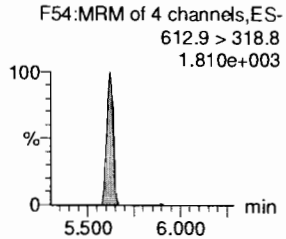

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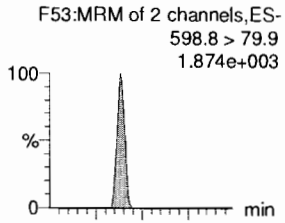

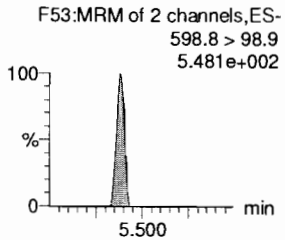

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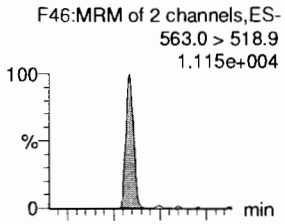

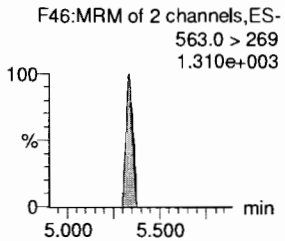

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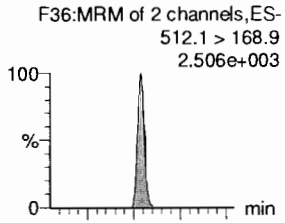

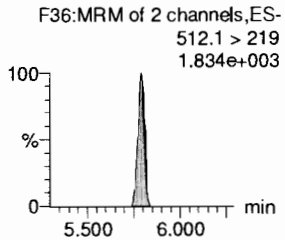

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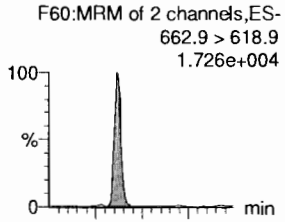

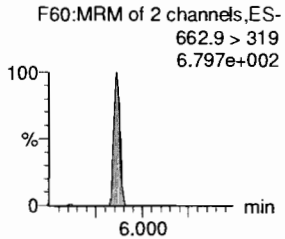

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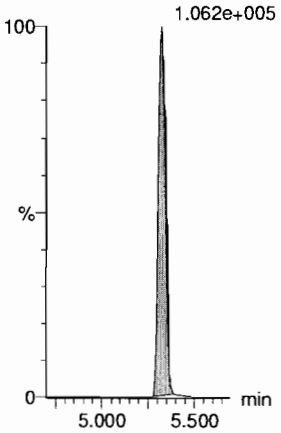

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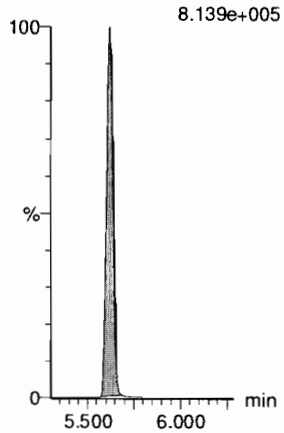
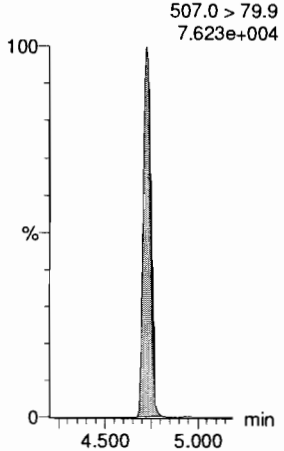


13C8-PFOS



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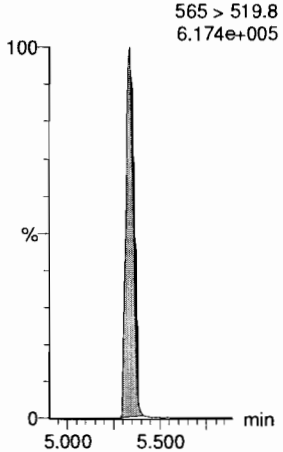

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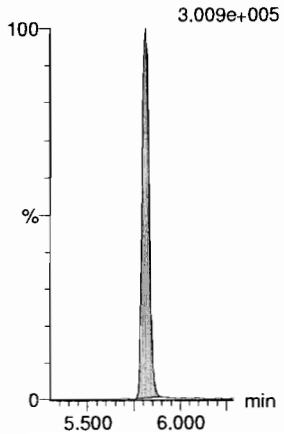

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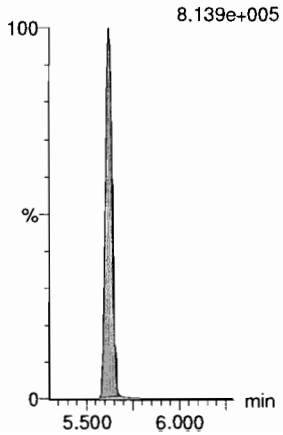

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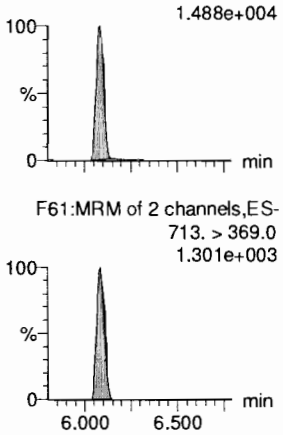

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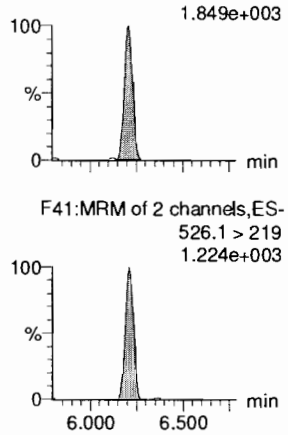

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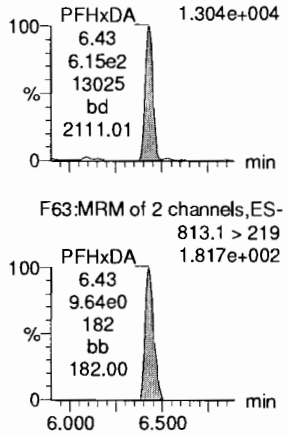

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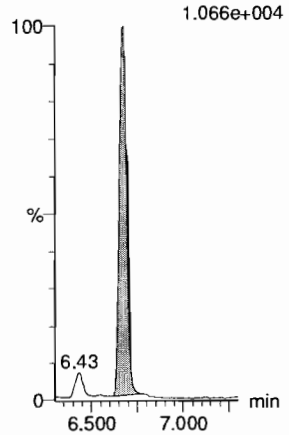

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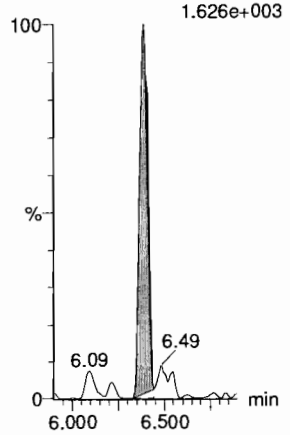

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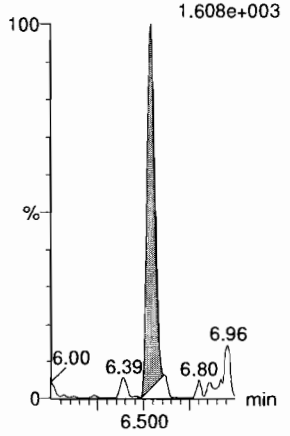

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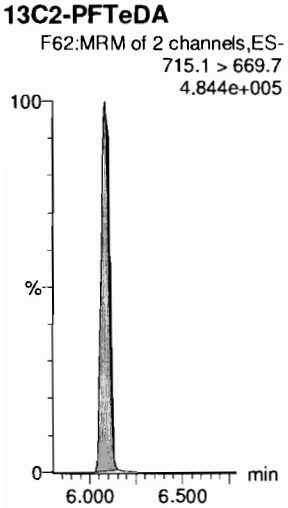

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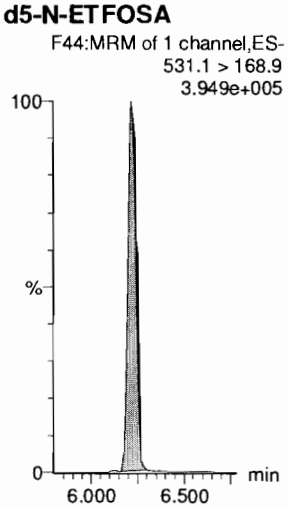

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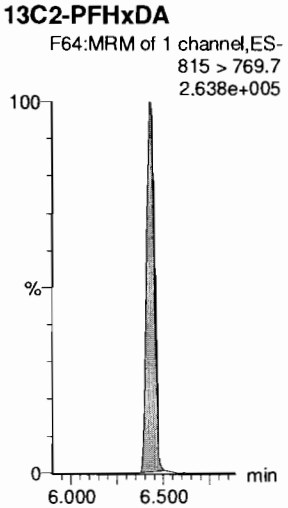

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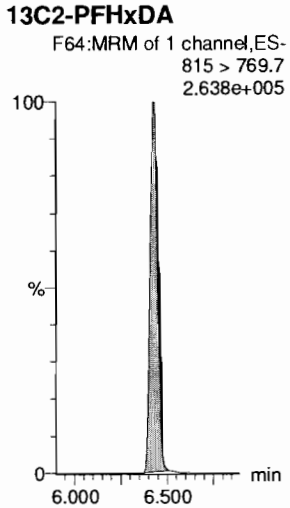

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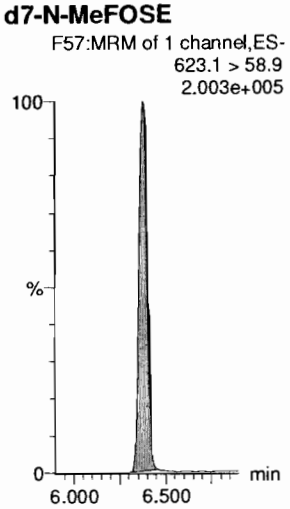

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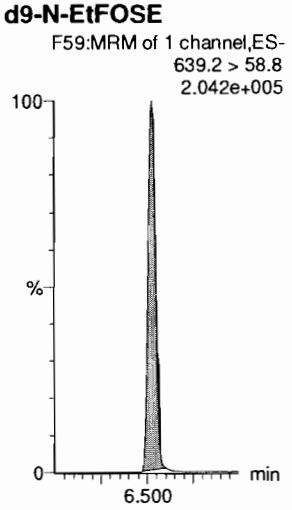

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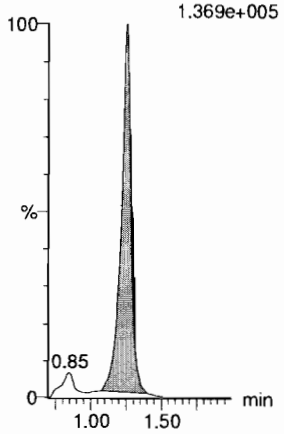
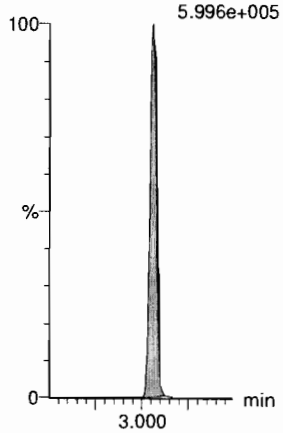
Name: 190219M2_2, Date: 19-Feb-2019, Time: 16:50:09, ID: ST190219M2-1 PFC CS-2 19B1301, Description: PFC CS-2 19B1301

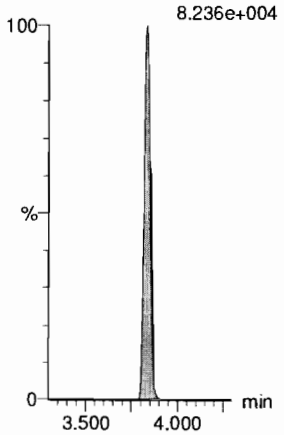
13C4-PFBA



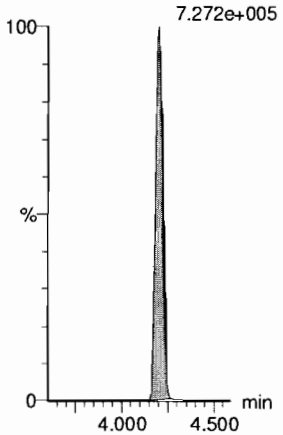
13C5-PFHxA



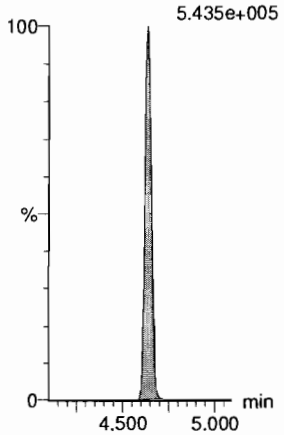
13C3-PFHxS



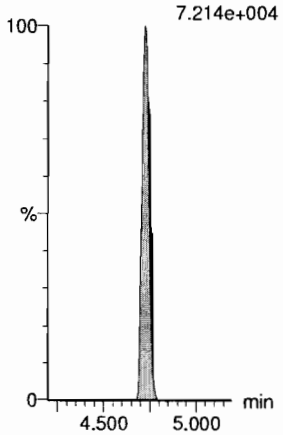
13C8-PFOA



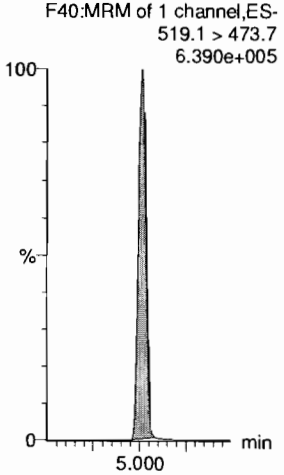
13C9-PFNA



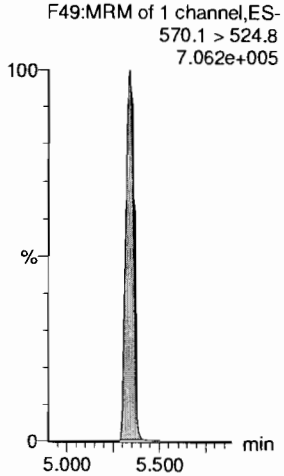
13C4-PFOS



13C6-PFDA



13C7-PFUdA

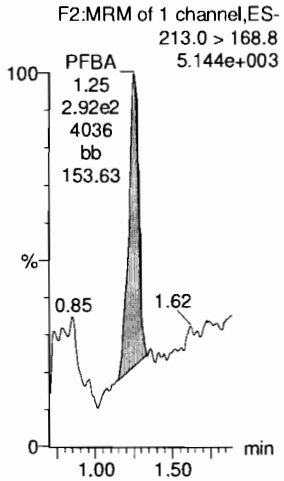


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

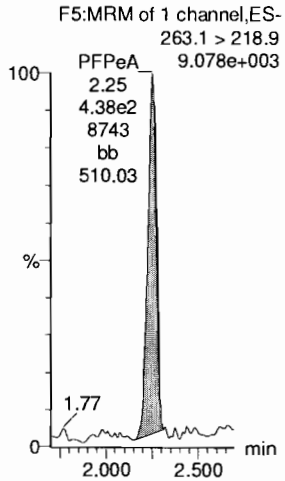
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_3, Date: 19-Feb-2019, Time: 17:00:42, ID: ST190219M2-2 PFC CS-1 19B1302, Description: PFC CS-1 19B1302

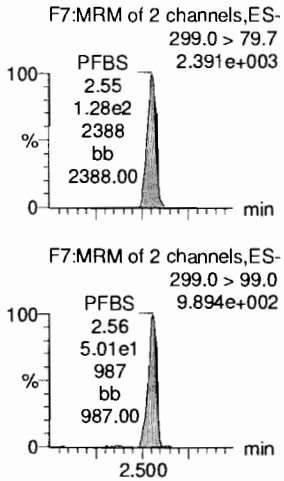
PFBA



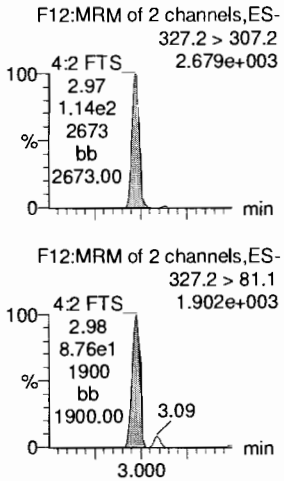
PFPeA



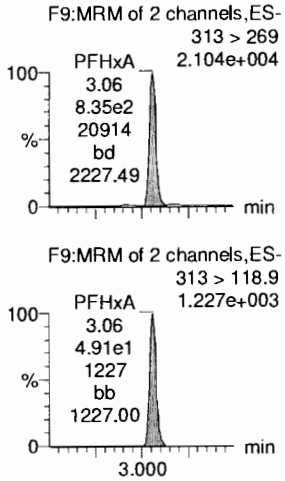
PFBS



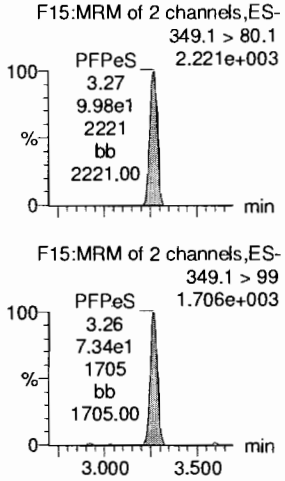
4:2 FTS



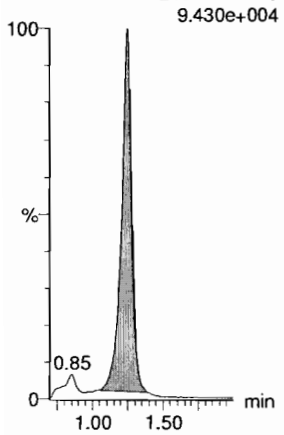
PFHxA



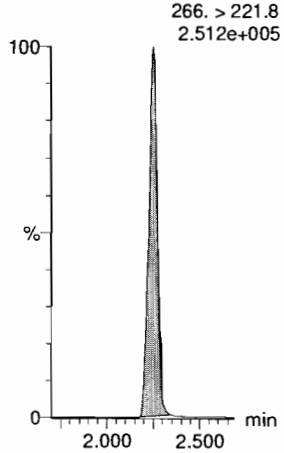
PFPeS



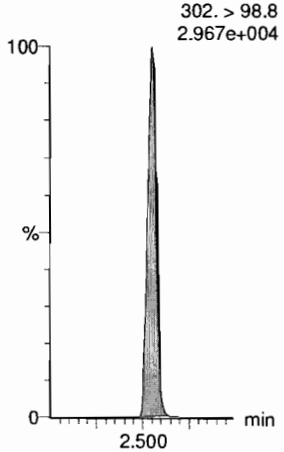
13C3-PFBA



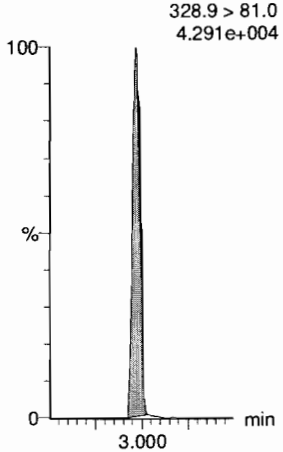
13C3-PFPeA



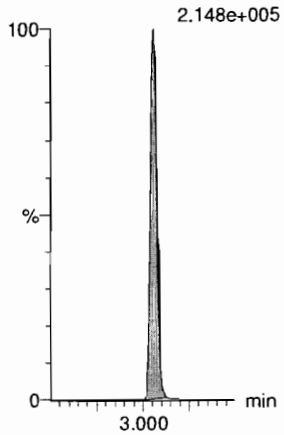
13C3-PFBS



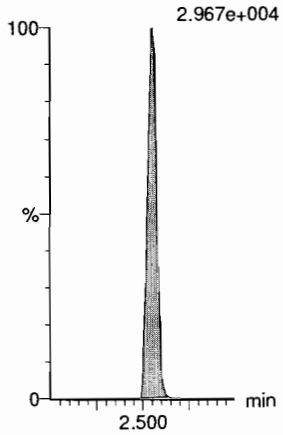
13C2-4:2 FTS



13C2-PFHxA



13C3-PFBS

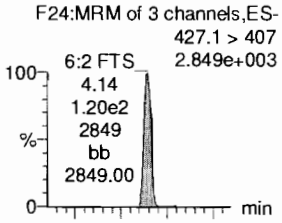


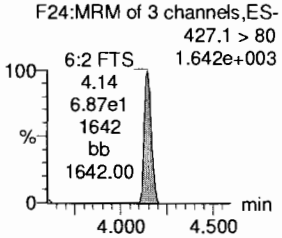
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

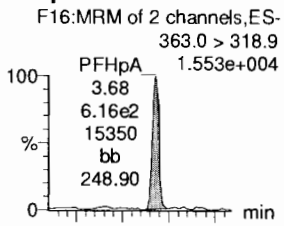
Name: 190219M2_3, Date: 19-Feb-2019, Time: 17:00:42, ID: ST190219M2-2 PFC CS-1 19B1302, Description: PFC CS-1 19B1302

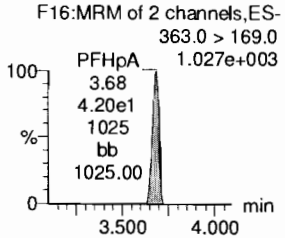
6:2 FTS



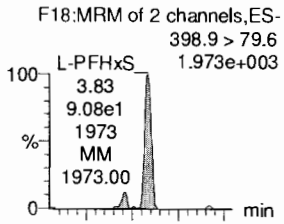


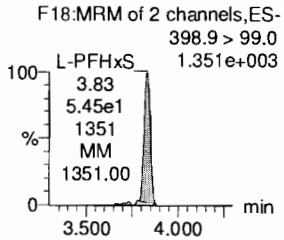
PFHpA



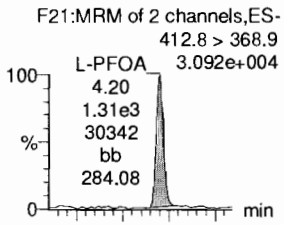


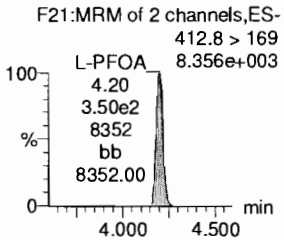
L-PFHxS



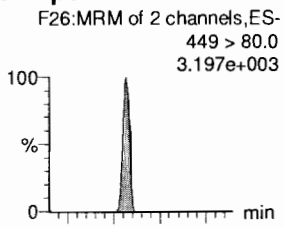


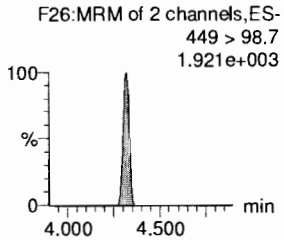
L-PFOA



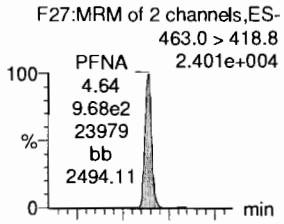


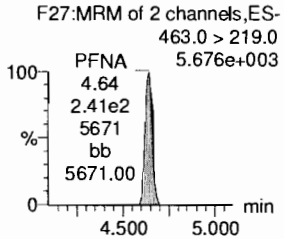
PFHpS



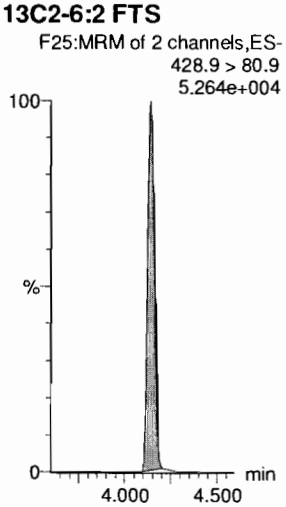


PFNA

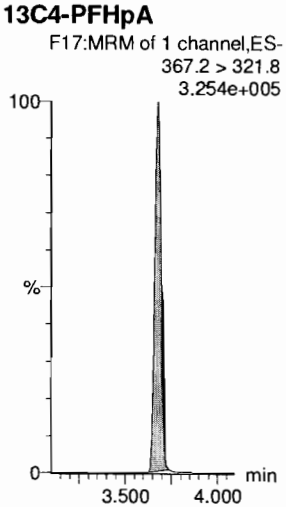




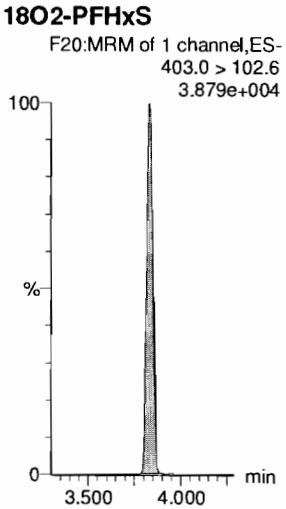
13C2-6:2 FTS



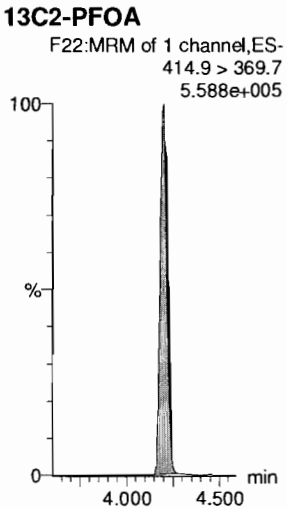
13C4-PFHpA



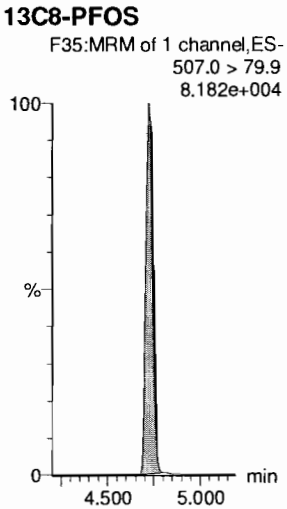
18O2-PFHxS



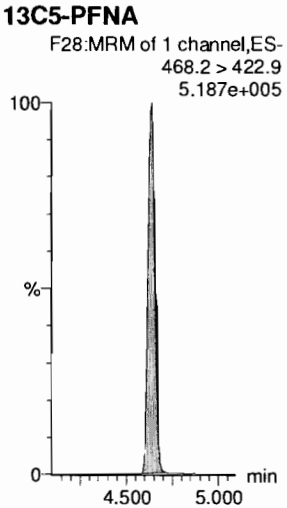
13C2-PFOA



13C8-PFOS



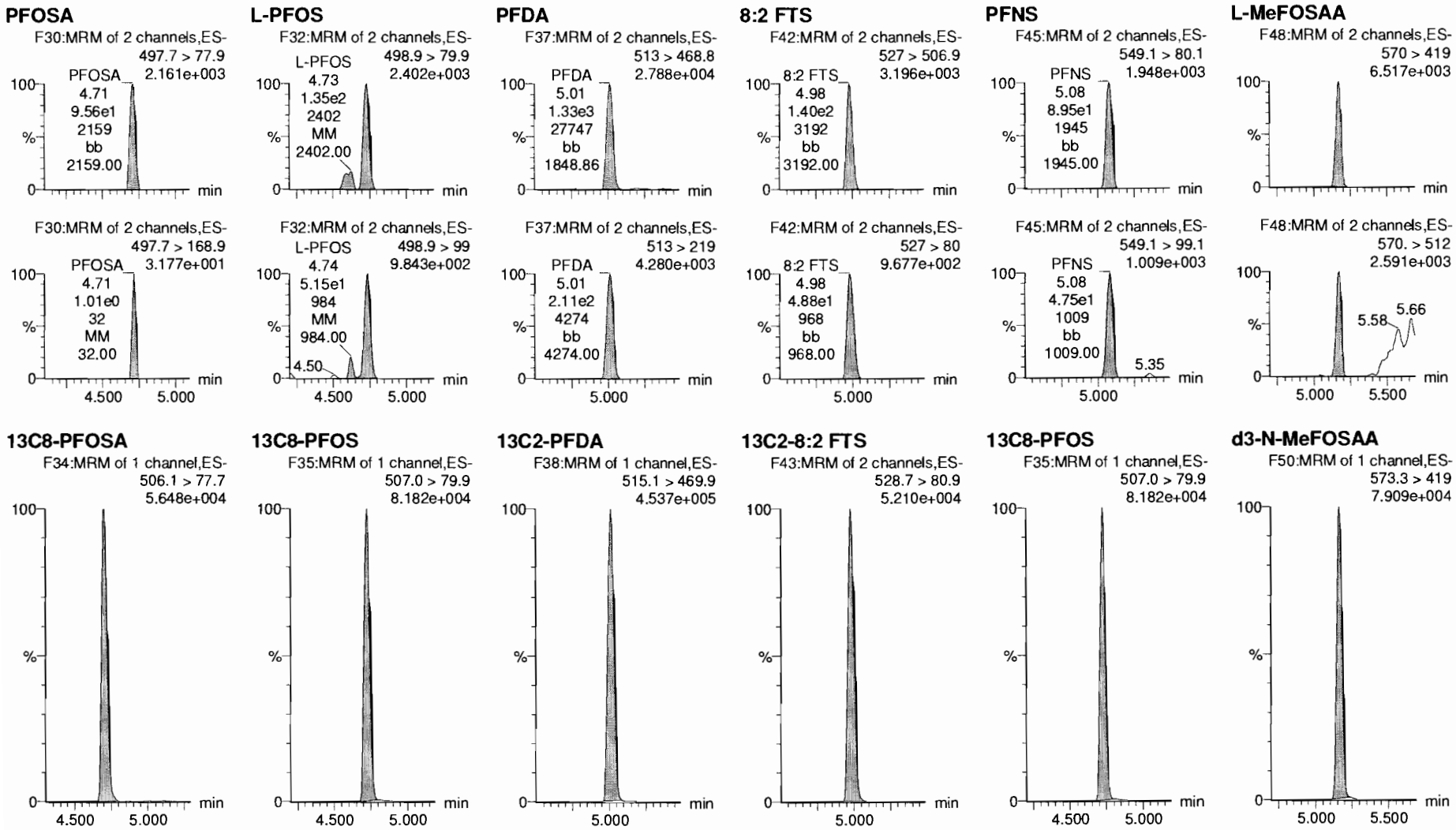
13C5-PFNA



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_3, Date: 19-Feb-2019, Time: 17:00:42, ID: ST190219M2-2 PFC CS-1 19B1302, Description: PFC CS-1 19B1302

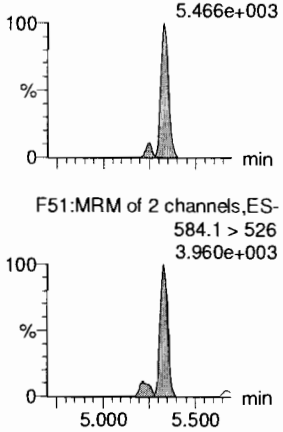


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

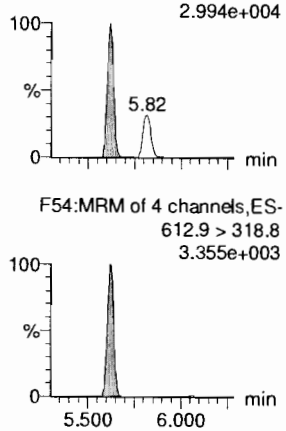
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_3, Date: 19-Feb-2019, Time: 17:00:42, ID: ST190219M2-2 PFC CS-1 19B1302, Description: PFC CS-1 19B1302

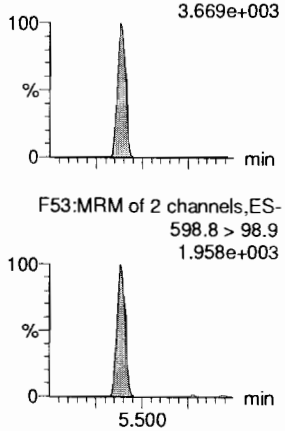
L-EtFOSAA



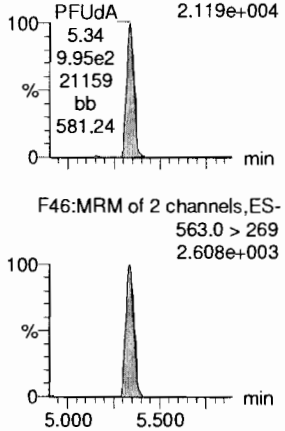
PFDoA



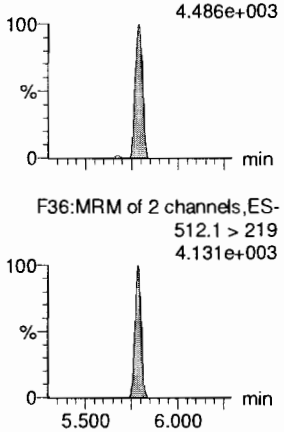
PFDS



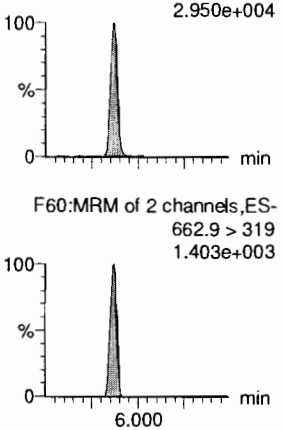
PFUdA



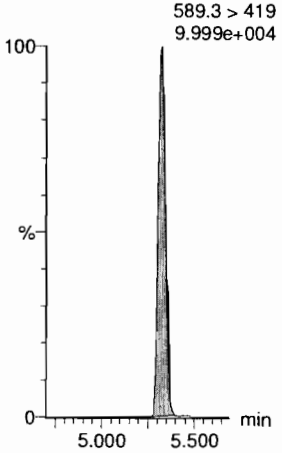
N-MeFOSA



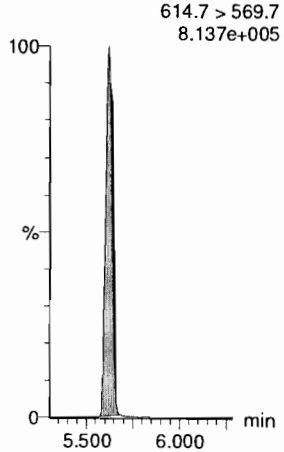
PFTrDA



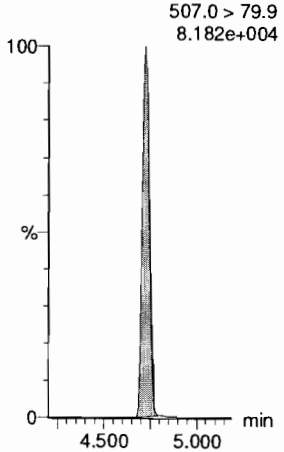
d5-N-EtFOSAA



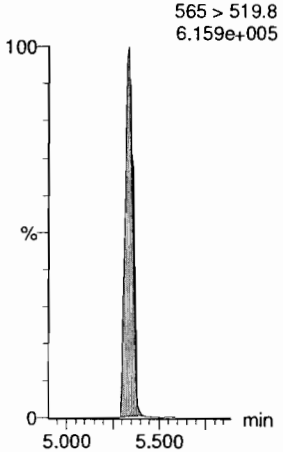
13C2-PFDoA



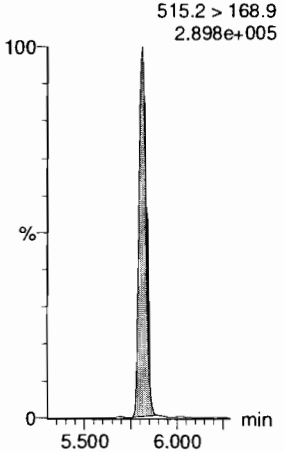
13C8-PFOS



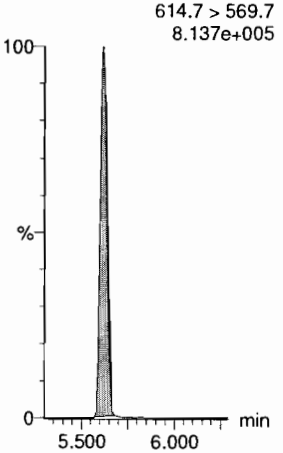
13C2-PFUdA



d3-N-MeFOSA



13C2-PFDoA

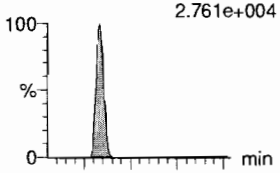


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

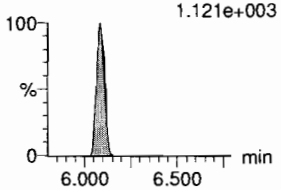
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_3, Date: 19-Feb-2019, Time: 17:00:42, ID: ST190219M2-2 PFC CS-1 19B1302, Description: PFC CS-1 19B1302

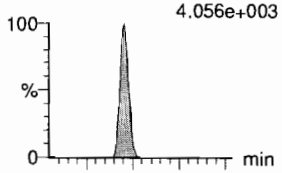
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
2.761e+004



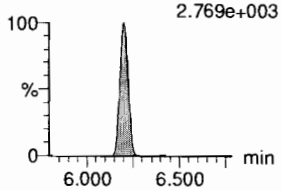
F61:MRM of 2 channels,ES-
713. > 369.0
1.121e+003



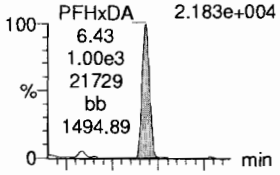
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
4.056e+003



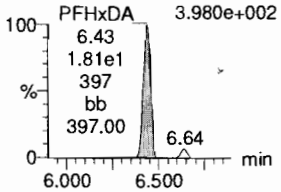
F41:MRM of 2 channels,ES-
526.1 > 219
2.769e+003



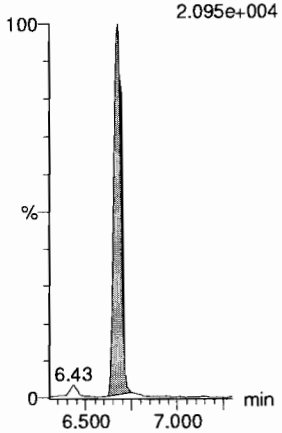
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
2.183e+004



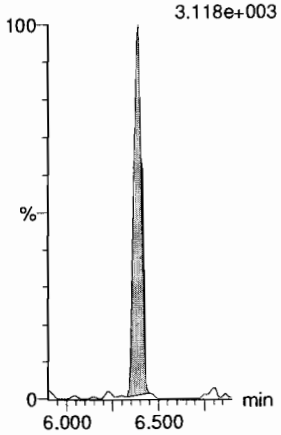
F63:MRM of 2 channels,ES-
813.1 > 219
3.980e+002



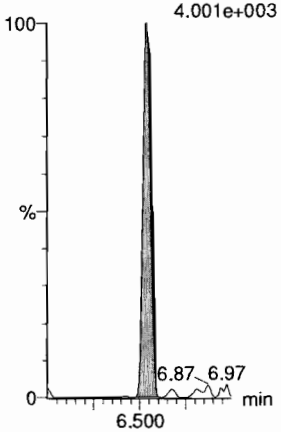
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
2.095e+004



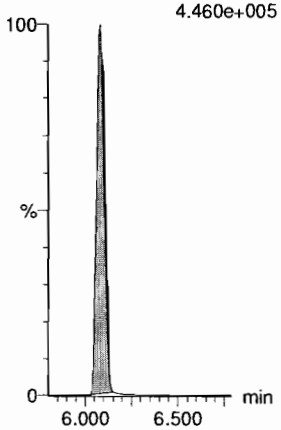
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
3.118e+003



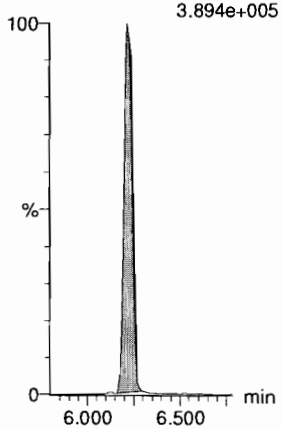
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
4.001e+003



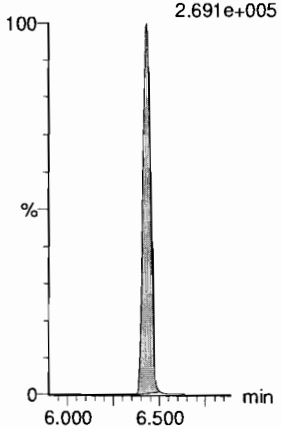
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
4.460e+005



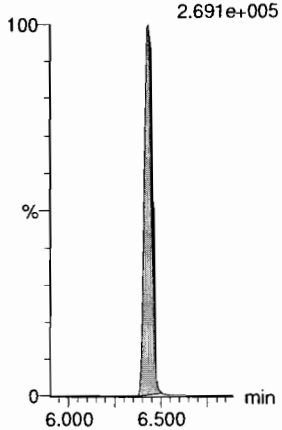
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.894e+005



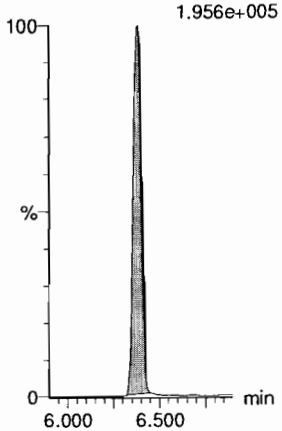
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.691e+005



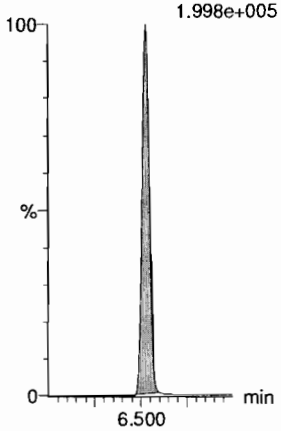
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.691e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
1.956e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
1.998e+005

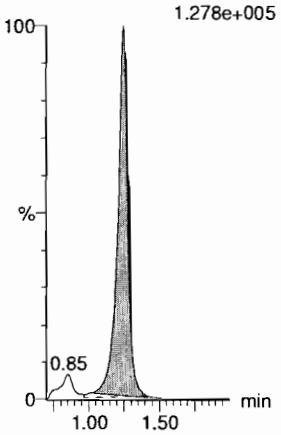


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

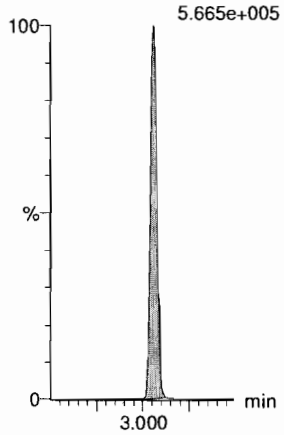
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_3, Date: 19-Feb-2019, Time: 17:00:42, ID: ST190219M2-2 PFC CS-1 19B1302, Description: PFC CS-1 19B1302

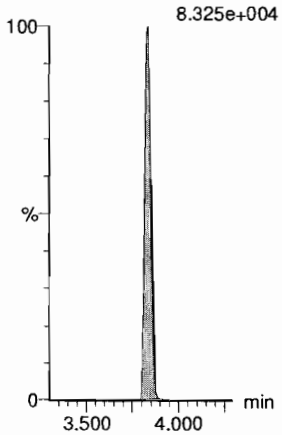
13C4-PFBA



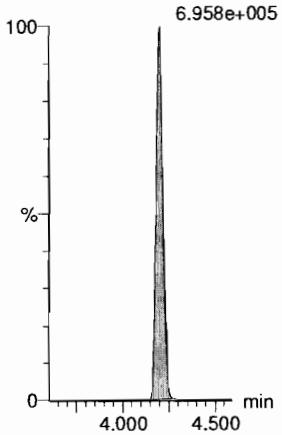
13C5-PFHxA



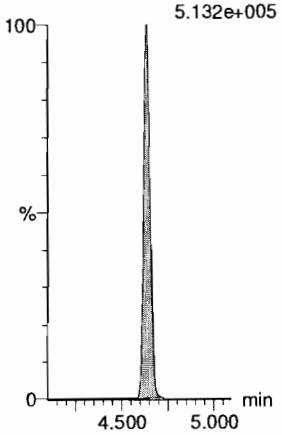
13C3-PFHxS



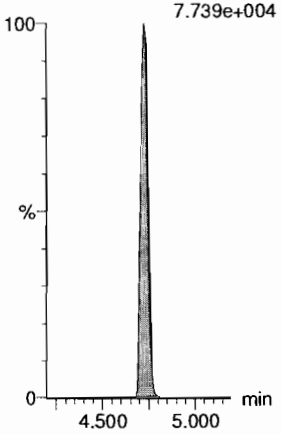
13C8-PFOA



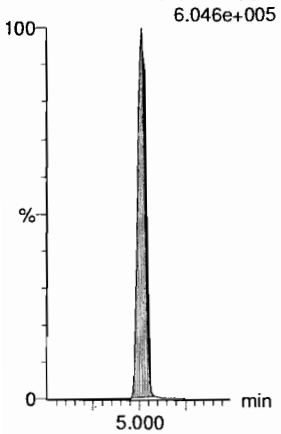
13C9-PFNA



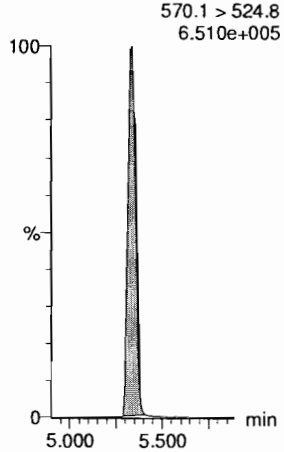
13C4-PFOS



13C6-PFDA



13C7-PFUdA

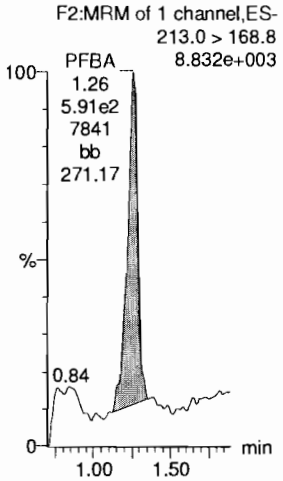


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

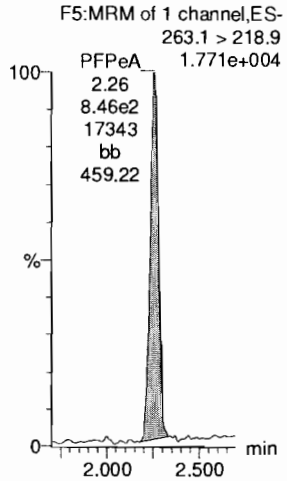
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_4, Date: 19-Feb-2019, Time: 17:11:21, ID: ST190219M2-3 PFC CS0 19B1303, Description: PFC CS0 19B1303

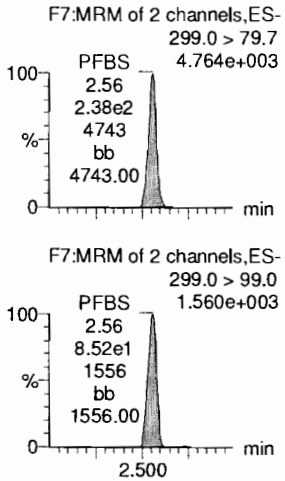
PFBA



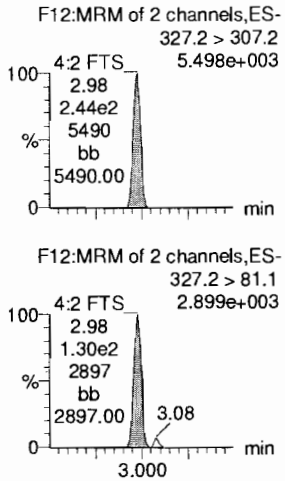
PFPeA



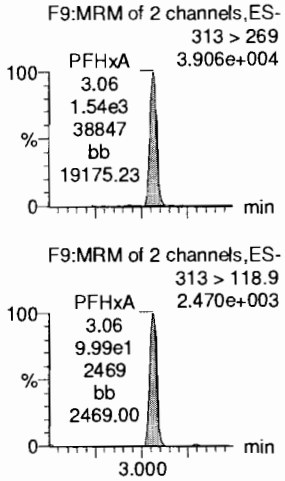
PFBS



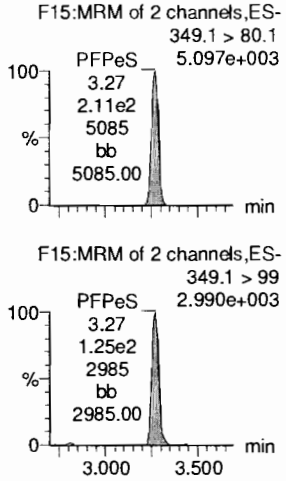
4:2 FTS



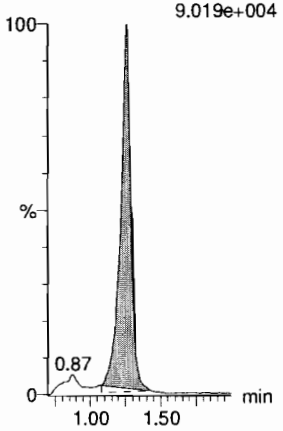
PFHxA



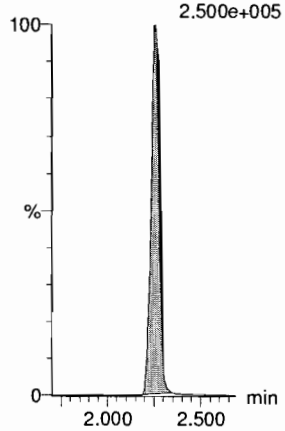
PFPeS



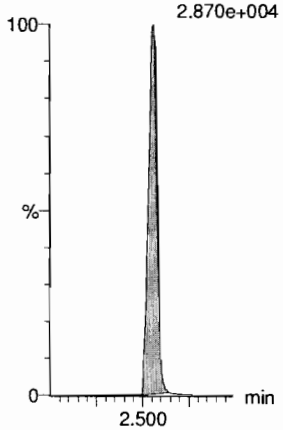
13C3-PFBA



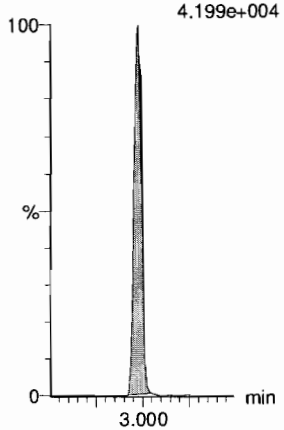
13C3-PFPeA



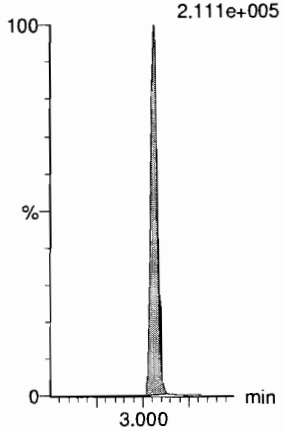
13C3-PFBS



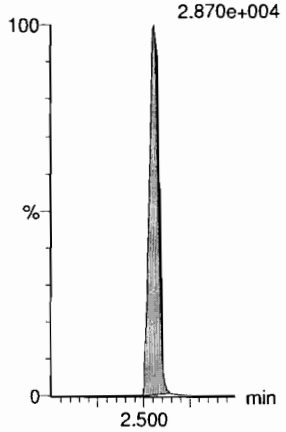
13C2-4:2 FTS



13C2-PFHxA



13C3-PFBS

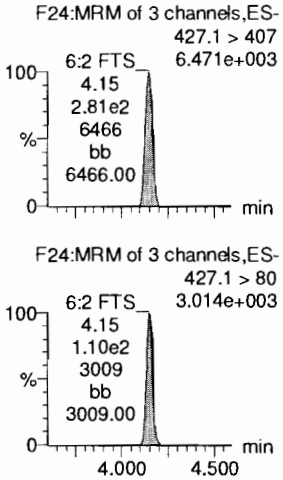


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

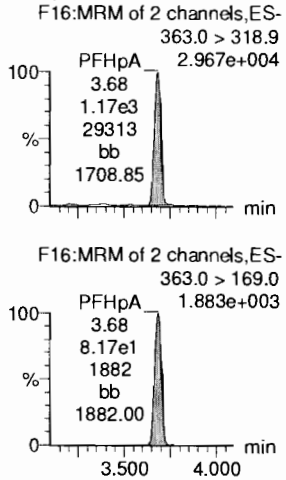
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_4, Date: 19-Feb-2019, Time: 17:11:21, ID: ST190219M2-3 PFC CS0 19B1303, Description: PFC CS0 19B1303

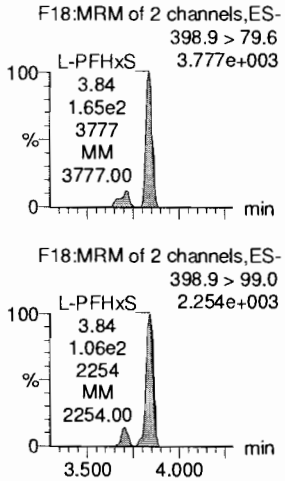
6:2 FTS



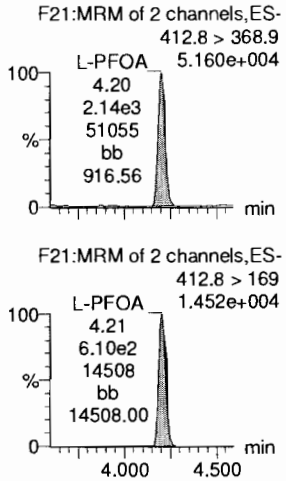
PFHpA



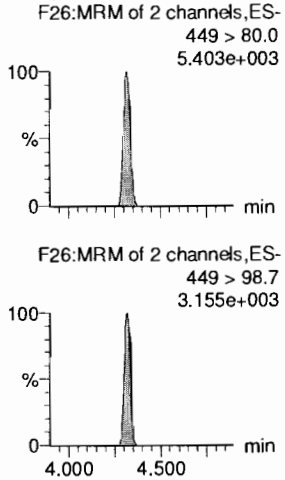
L-PFHxS



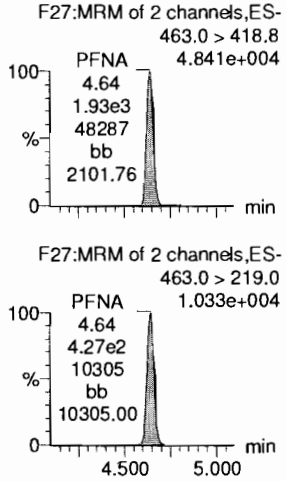
L-PFOA



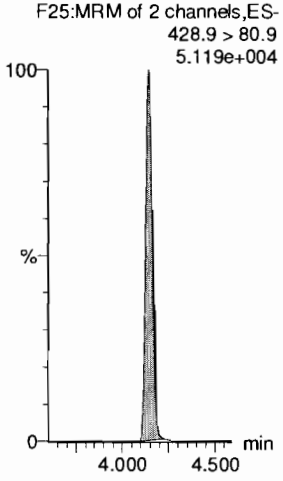
PFHpS



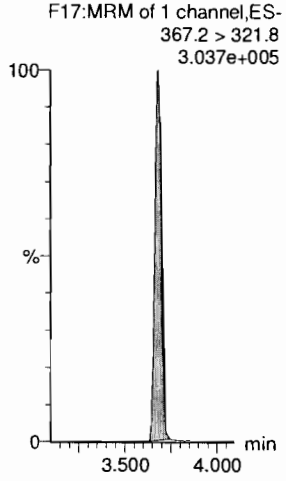
PFNA



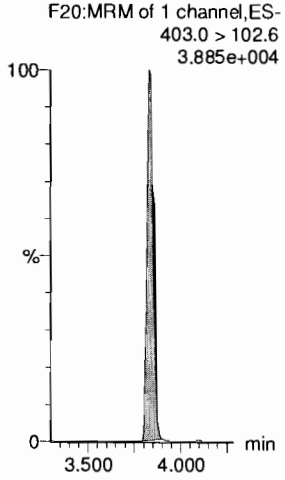
13C2-6:2 FTS



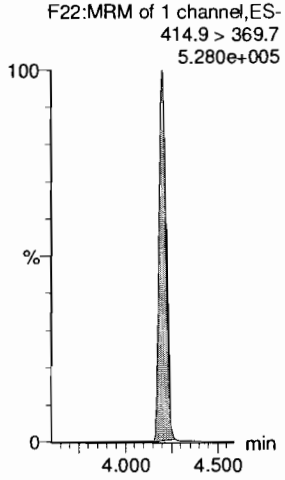
13C4-PFHpA



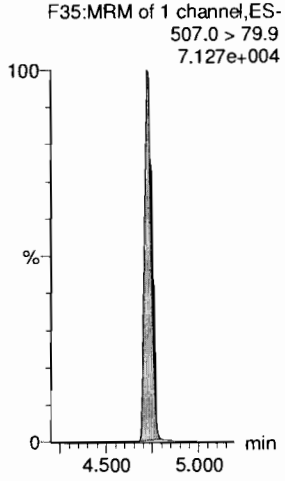
18O2-PFHxS



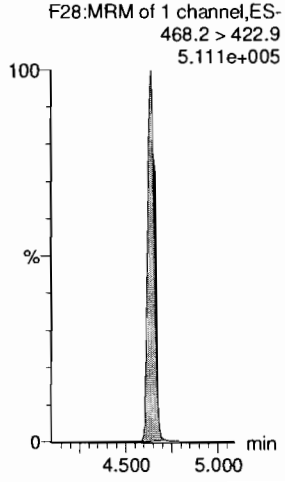
13C2-PFOA



13C8-PFOS



13C5-PFNA

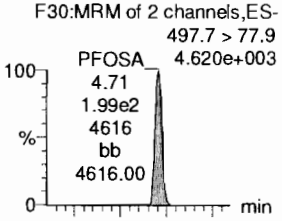


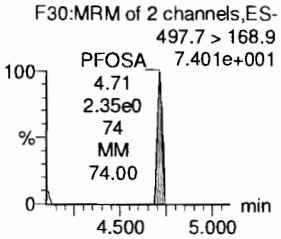
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

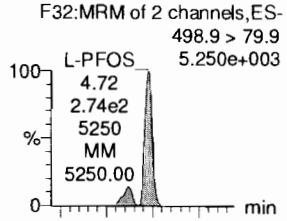
Name: 190219M2_4, Date: 19-Feb-2019, Time: 17:11:21, ID: ST190219M2-3 PFC CS0 19B1303, Description: PFC CS0 19B1303

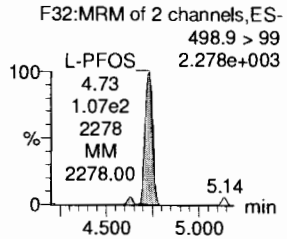
PFOSA



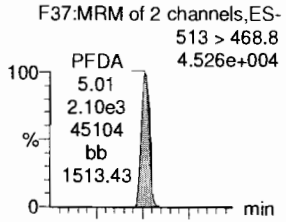


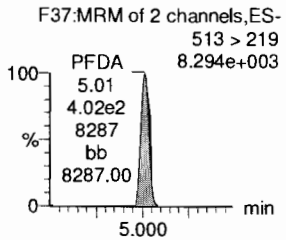
L-PFOS



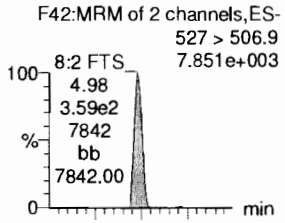


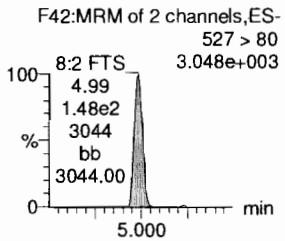
PFDA



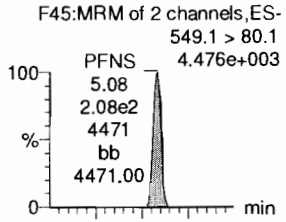


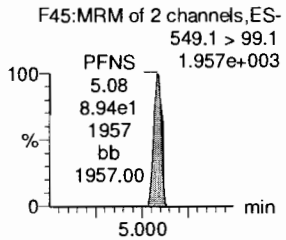
8:2 FTS



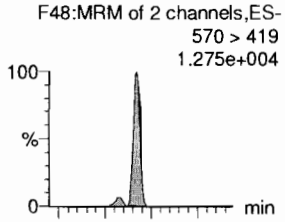


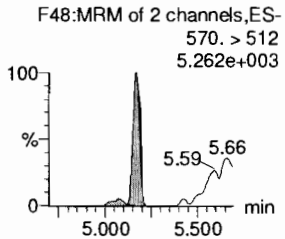
PFNS



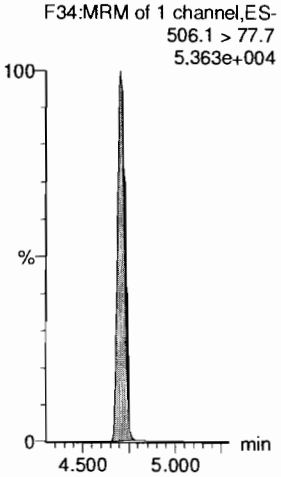


L-MeFOSAA

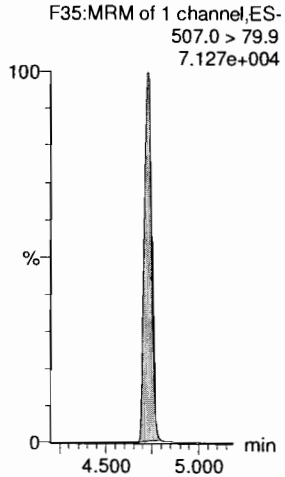




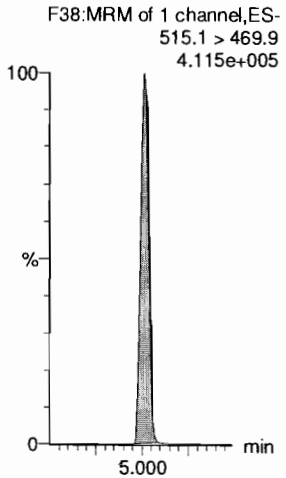
13C8-PFOSA



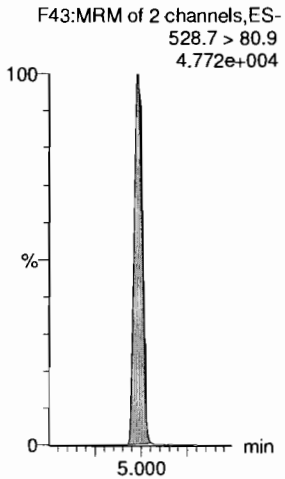
13C8-PFOS



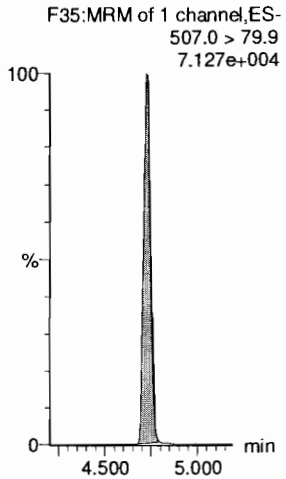
13C2-PFDA



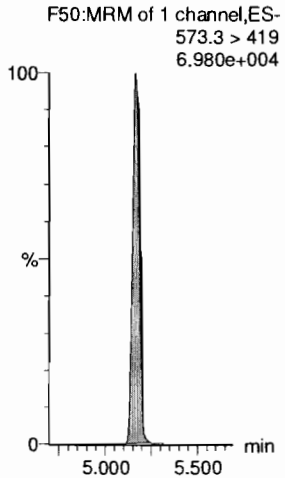
13C2-8:2 FTS



13C8-PFOS



d3-N-MeFOSAA

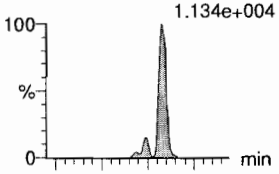


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

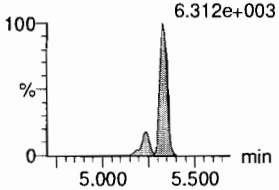
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_4, Date: 19-Feb-2019, Time: 17:11:21, ID: ST190219M2-3 PFC CS0 19B1303, Description: PFC CS0 19B1303

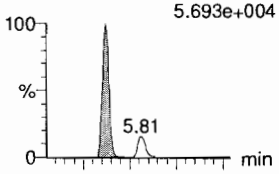
L-EtFOSAA
F51:MRM of 2 channels,ES-
584.1 > 419
1.134e+004



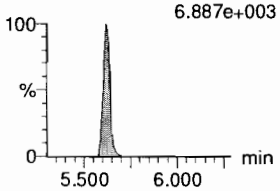
F51:MRM of 2 channels,ES-
584.1 > 526
6.312e+003



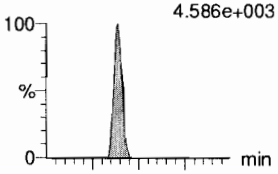
PFDoA
F54:MRM of 4 channels,ES-
612.9 > 569.0
5.693e+004



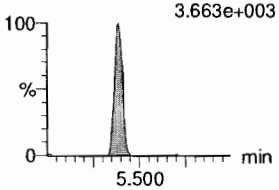
F54:MRM of 4 channels,ES-
612.9 > 318.8
6.887e+003



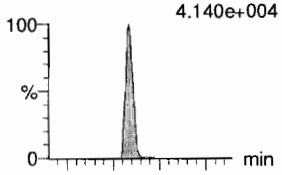
PFDS
F53:MRM of 2 channels,ES-
598.8 > 79.9
4.586e+003



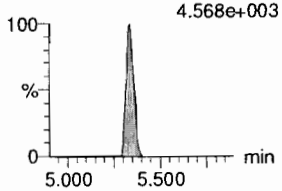
F53:MRM of 2 channels,ES-
598.8 > 98.9
3.663e+003



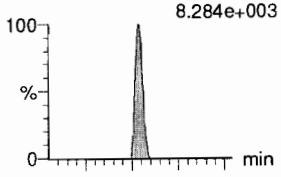
PFUdA
F46:MRM of 2 channels,ES-
563.0 > 518.9
4.140e+004



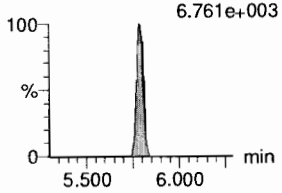
F46:MRM of 2 channels,ES-
563.0 > 269
4.568e+003



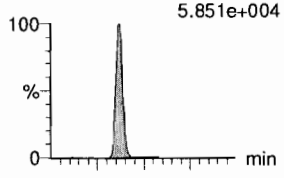
N-MeFOSA
F36:MRM of 2 channels,ES-
512.1 > 168.9
8.284e+003



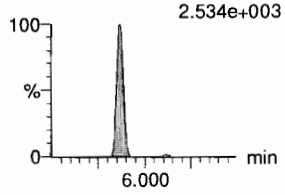
F36:MRM of 2 channels,ES-
512.1 > 219
6.761e+003



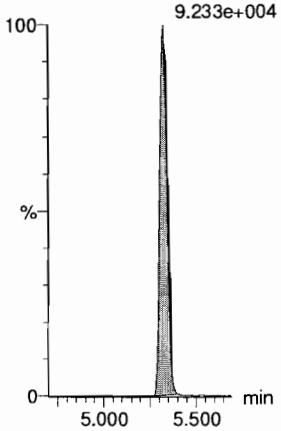
PFTrDA
F60:MRM of 2 channels,ES-
662.9 > 618.9
5.851e+004



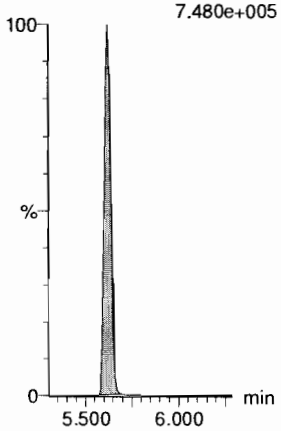
F60:MRM of 2 channels,ES-
662.9 > 319
2.534e+003



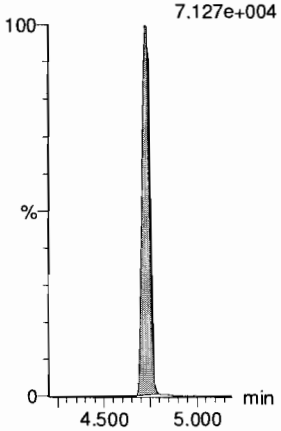
d5-N-EtFOSAA
F52:MRM of 1 channel,ES-
589.3 > 419
9.233e+004



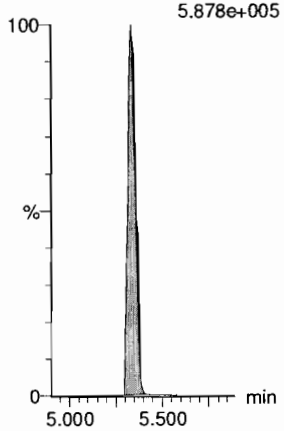
13C2-PFDoA
F55:MRM of 2 channels,ES-
614.7 > 569.7
7.480e+005



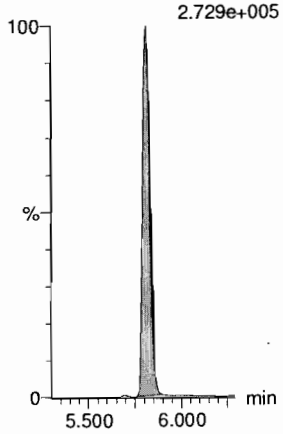
13C8-PFOS
F35:MRM of 1 channel,ES-
507.0 > 79.9
7.127e+004



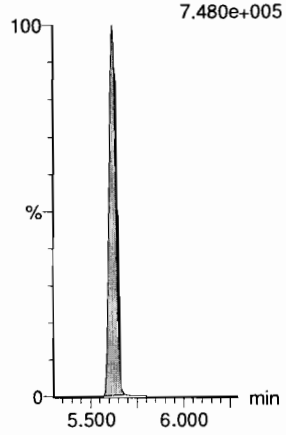
13C2-PFUdA
F47:MRM of 1 channel,ES-
565 > 519.8
5.878e+005



d3-N-MeFOSA
F39:MRM of 1 channel,ES-
515.2 > 168.9
2.729e+005



13C2-PFDoA
F55:MRM of 2 channels,ES-
614.7 > 569.7
7.480e+005

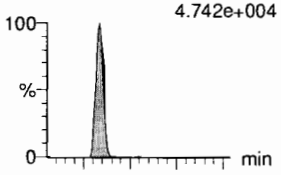


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

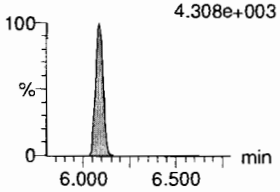
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_4, Date: 19-Feb-2019, Time: 17:11:21, ID: ST190219M2-3 PFC CS0 19B1303, Description: PFC CS0 19B1303

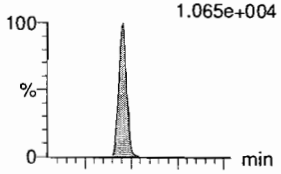
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
4.742e+004



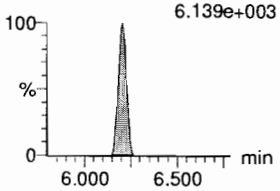
F61:MRM of 2 channels,ES-
713. > 369.0
4.308e+003



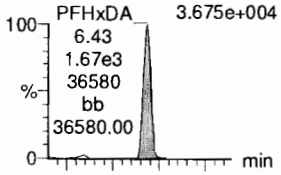
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
1.065e+004



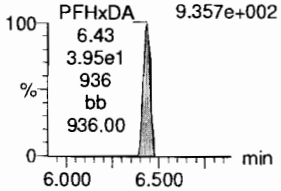
F41:MRM of 2 channels,ES-
526.1 > 219
6.139e+003



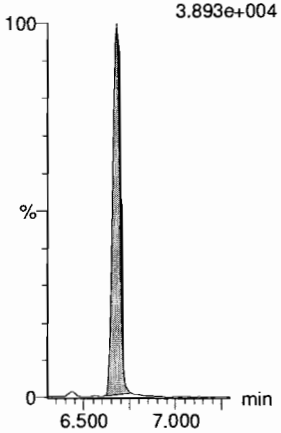
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
3.675e+004



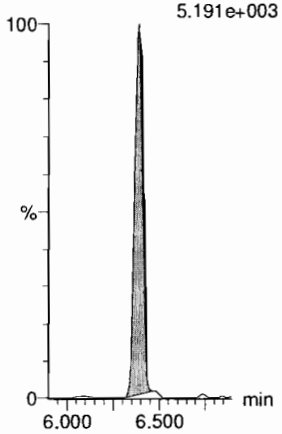
F63:MRM of 2 channels,ES-
813.1 > 219
9.357e+002



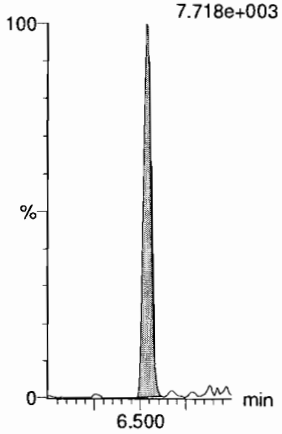
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
3.893e+004



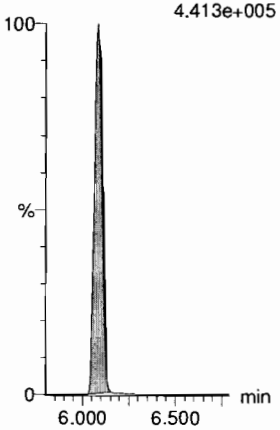
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
5.191e+003



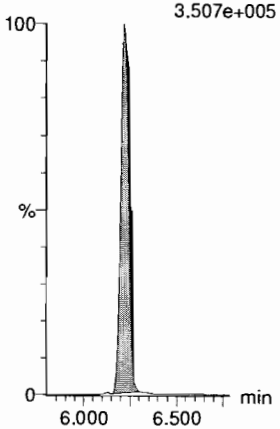
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
7.718e+003



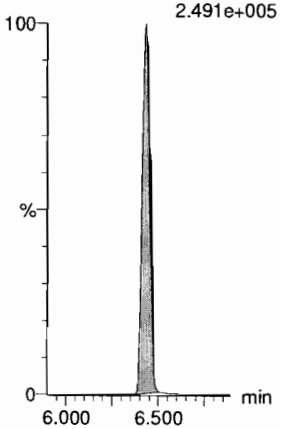
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
4.413e+005



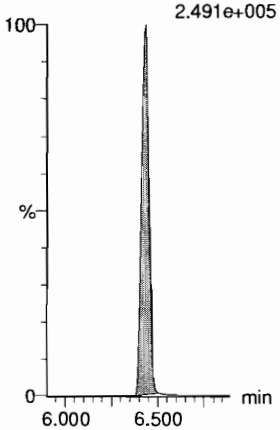
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.507e+005



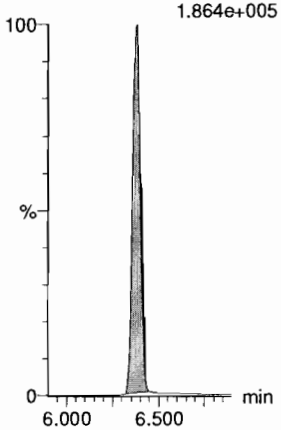
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.491e+005



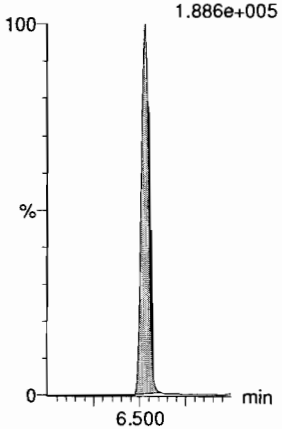
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.491e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
1.864e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
1.886e+005

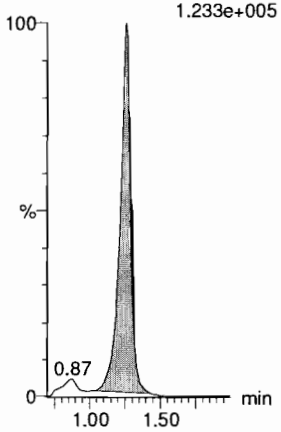


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

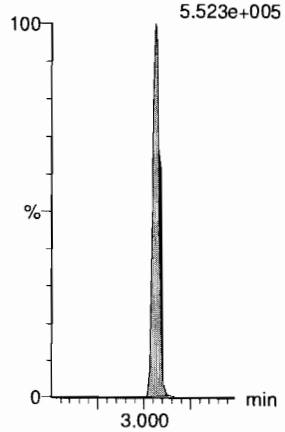
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_4, Date: 19-Feb-2019, Time: 17:11:21, ID: ST190219M2-3 PFC CS0 19B1303, Description: PFC CS0 19B1303

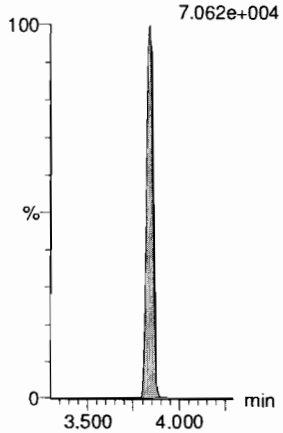
13C4-PFBA



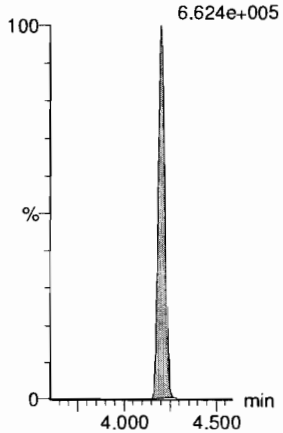
13C5-PFHxA



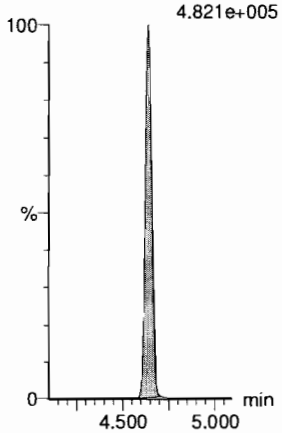
13C3-PFHxS



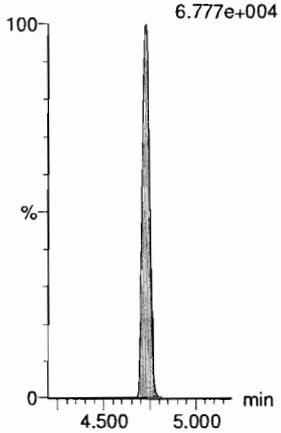
13C8-PFOA



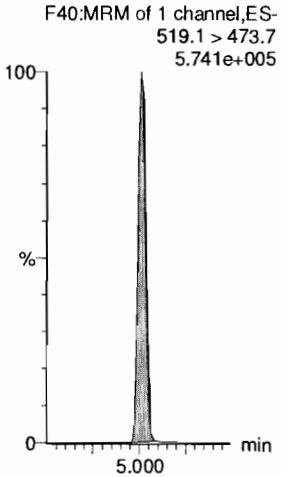
13C9-PFNA



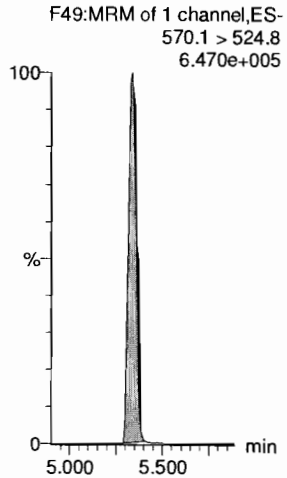
13C4-PFOS



13C6-PFDA



13C7-PFUdA

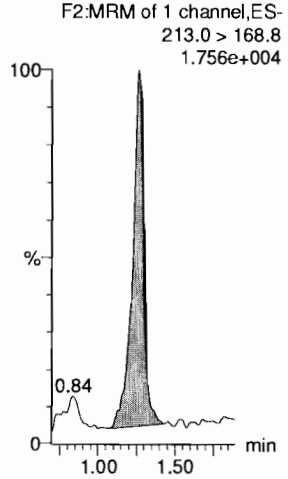


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

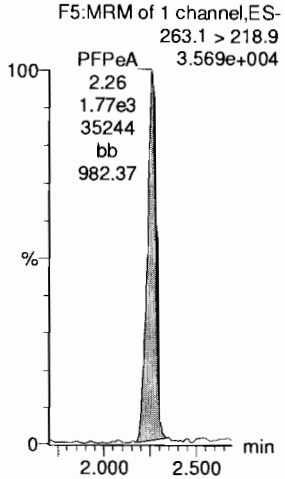
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_5, Date: 19-Feb-2019, Time: 17:21:53, ID: ST190219M2-4 PFC CS1 19B1304, Description: PFC CS1 19B1304

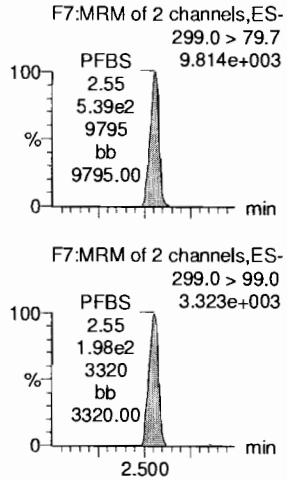
PFBA



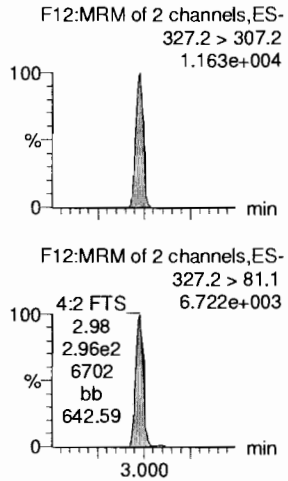
PFPeA



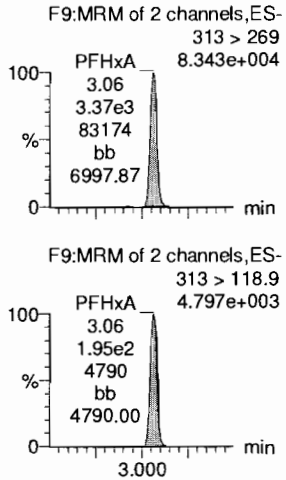
PFBS



4:2 FTS



PFHxA



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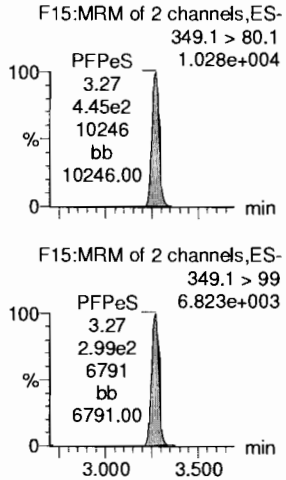
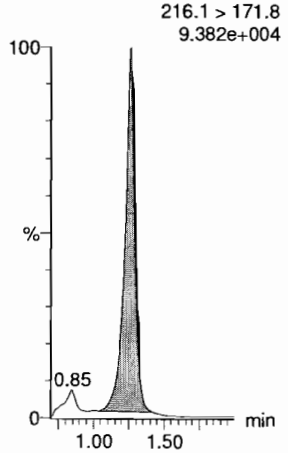
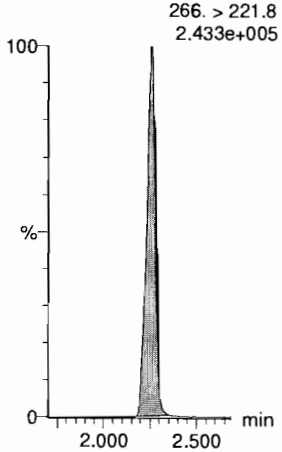


13C3-PFBA



13C3-PFPeA



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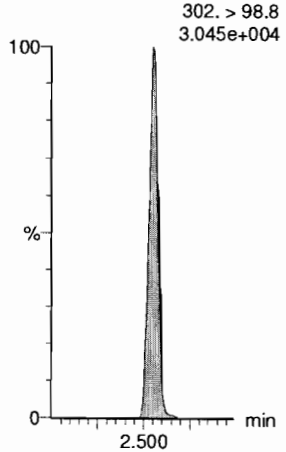
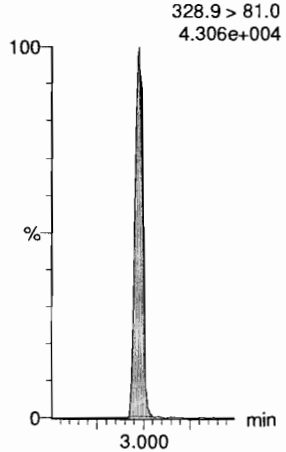
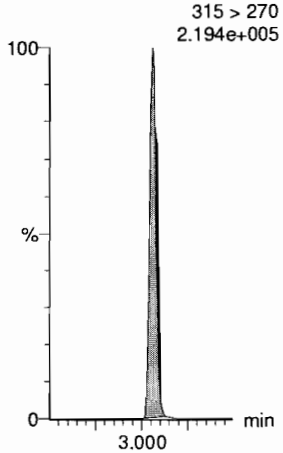


13C2-4:2 FTS



13C2-PFHxA



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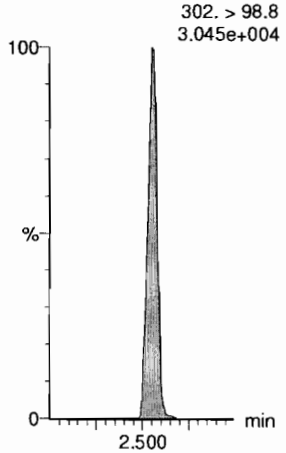
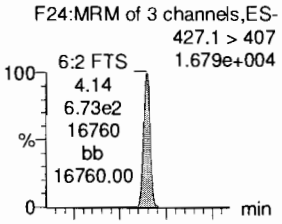


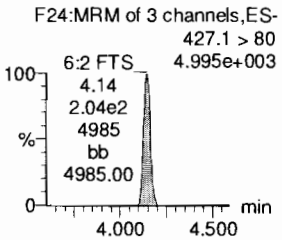
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

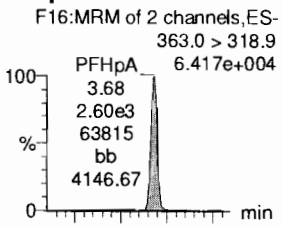
Name: 190219M2_5, Date: 19-Feb-2019, Time: 17:21:53, ID: ST190219M2-4 PFC CS1 19B1304, Description: PFC CS1 19B1304

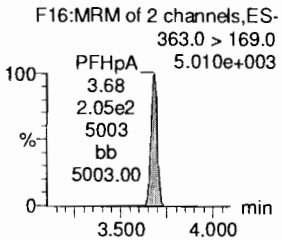
6:2 FTS



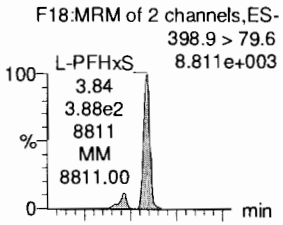


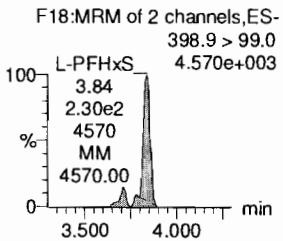
PFHpA





L-PFHxS





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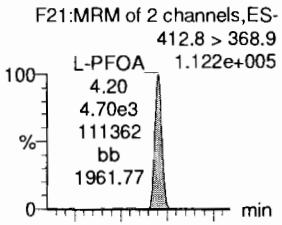

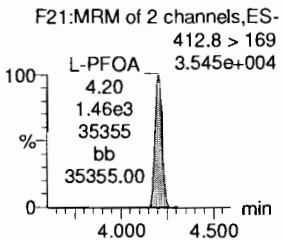

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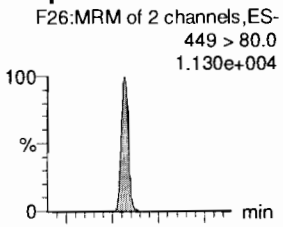

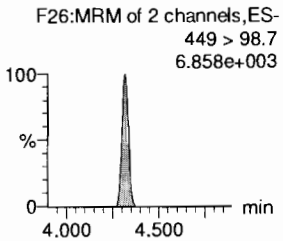

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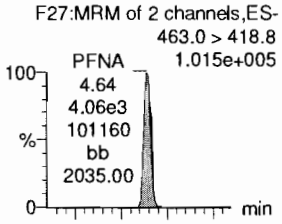
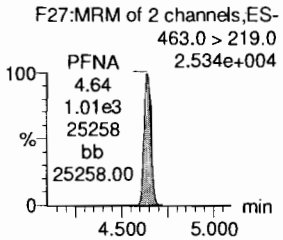
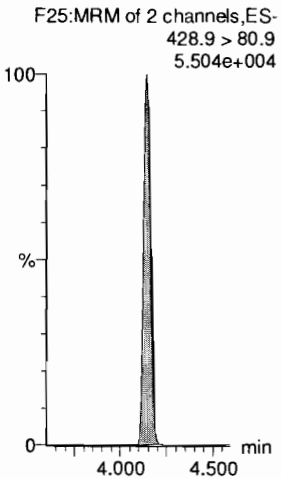
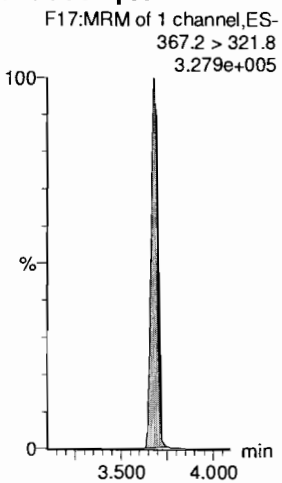




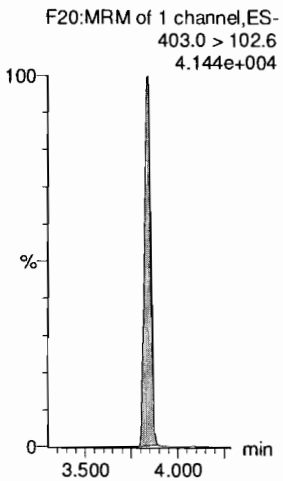
13C2-6:2 FTS



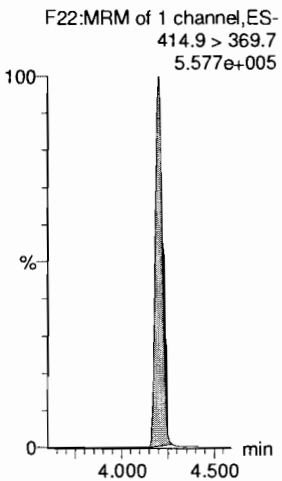
13C4-PFHpA



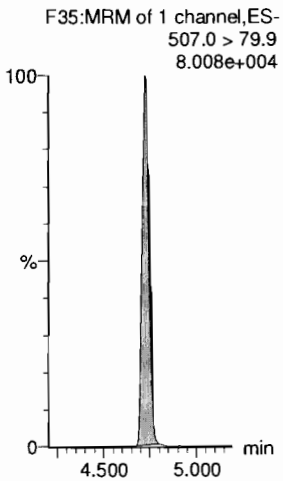
18O2-PFHxS



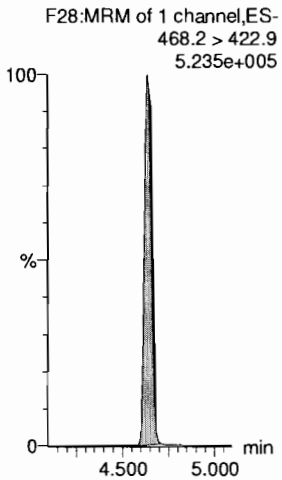
13C2-PFOA



13C8-PFOS



13C5-PFNA

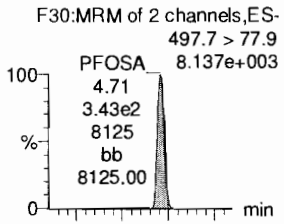


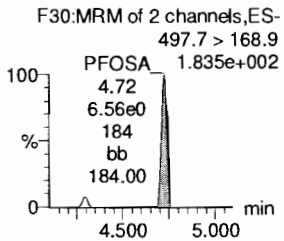
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

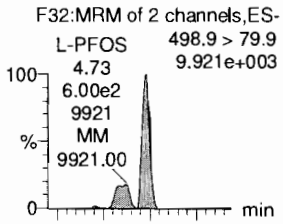
Name: 190219M2_5, Date: 19-Feb-2019, Time: 17:21:53, ID: ST190219M2-4 PFC CS1 19B1304, Description: PFC CS1 19B1304

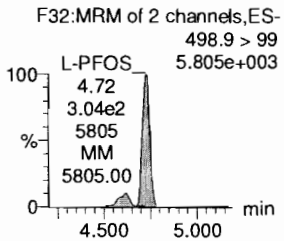
PFOSA



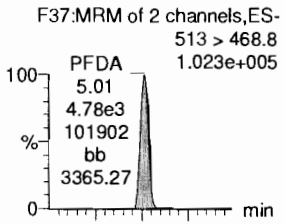


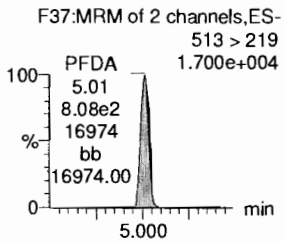
L-PFOS



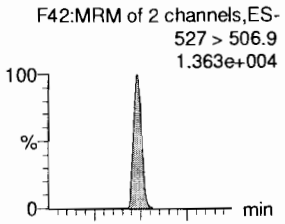


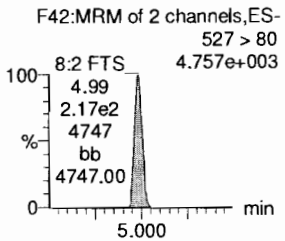
PFDA



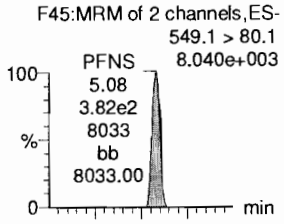


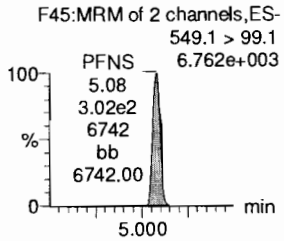
8:2 FTS



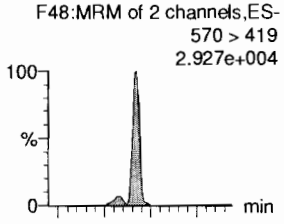


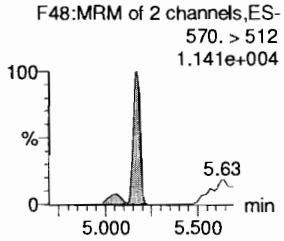
PFNS



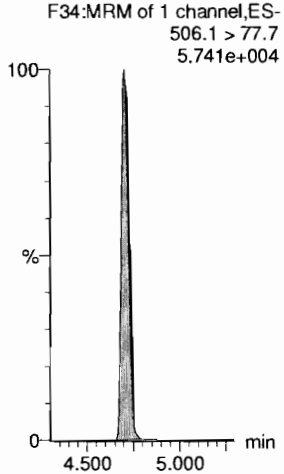


L-MeFOSAA

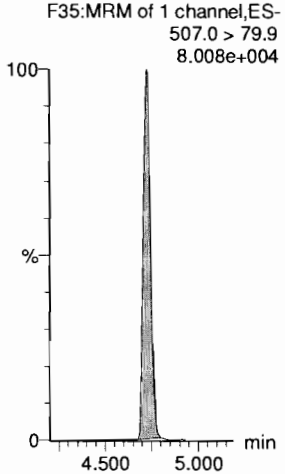




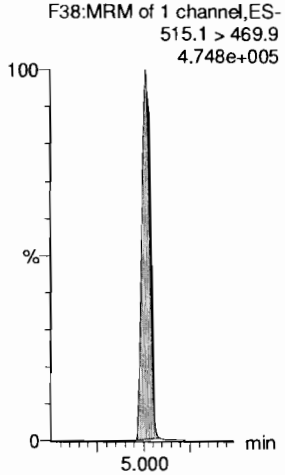
13C8-PFOSA



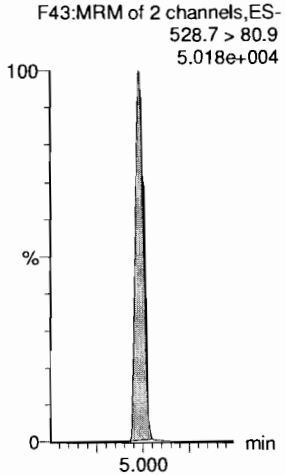
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



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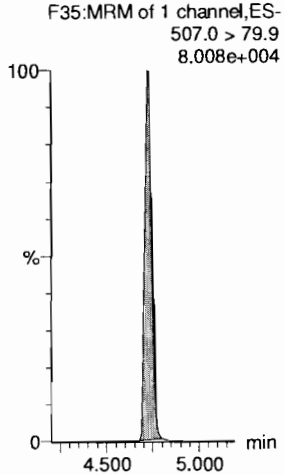
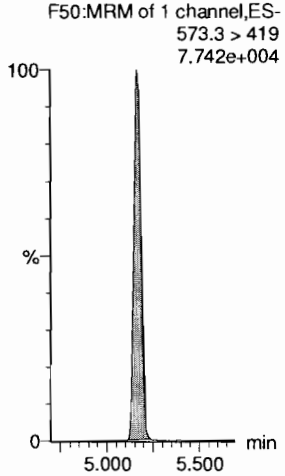


d3-N-MeFOSAA



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Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
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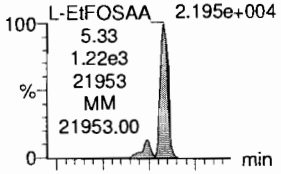
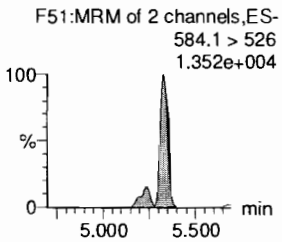
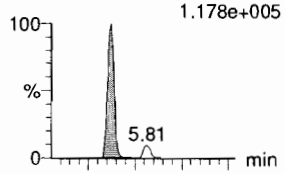
Name: 190219M2_5, Date: 19-Feb-2019, Time: 17:21:53, ID: ST190219M2-4 PFC CS1 19B1304, Description: PFC CS1 19B1304

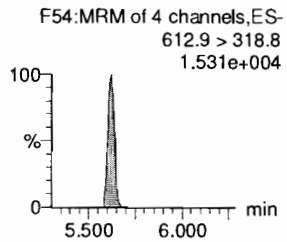
L-EtFOSAA





PFDoA





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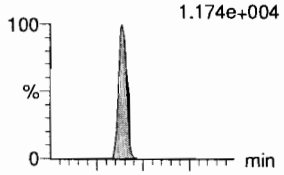
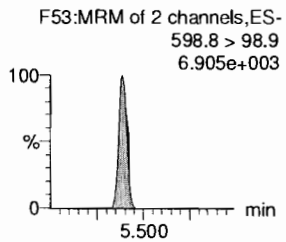
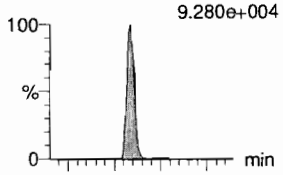
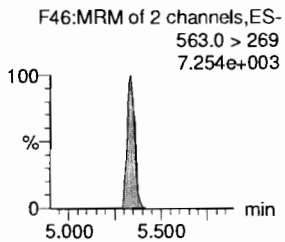


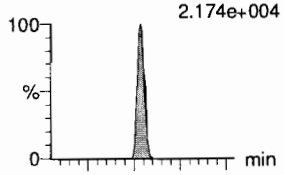


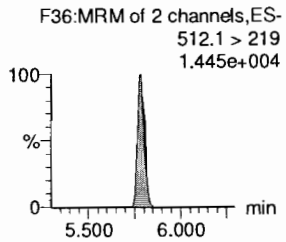
PFUdA



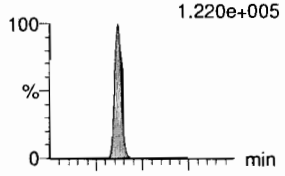


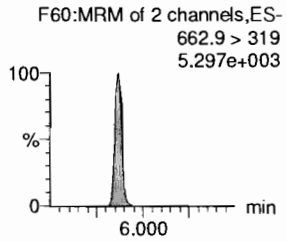
N-MeFOSA



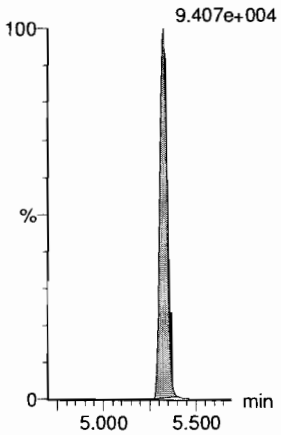


PFTrDA

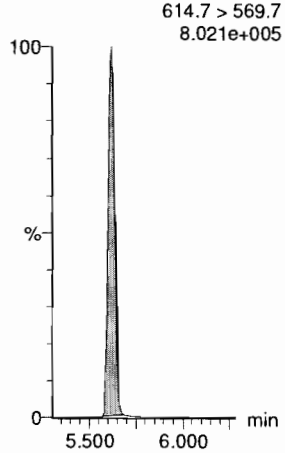




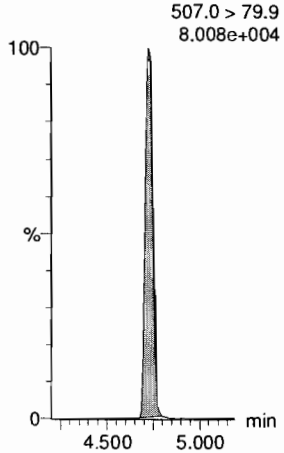
d5-N-EtFOSAA



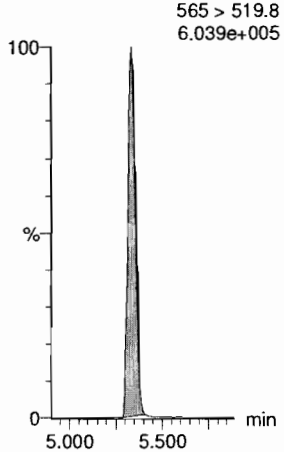
13C2-PFDoA



13C8-PFOS



13C2-PFUdA



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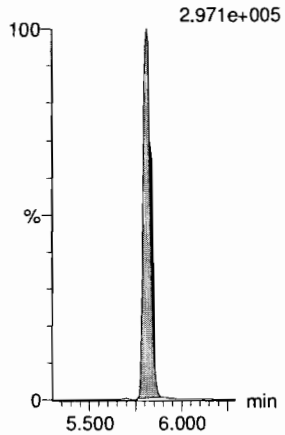
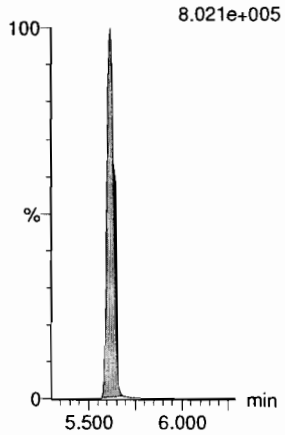


13C2-PFDoA

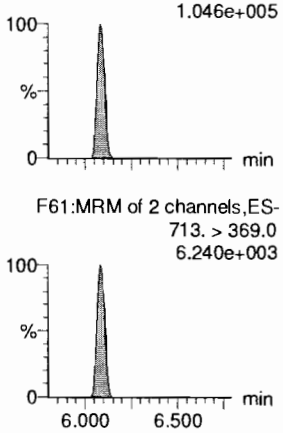


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

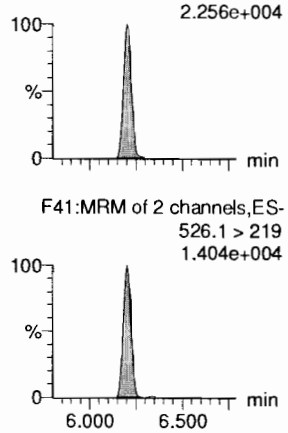
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_5, Date: 19-Feb-2019, Time: 17:21:53, ID: ST190219M2-4 PFC CS1 19B1304, Description: PFC CS1 19B1304

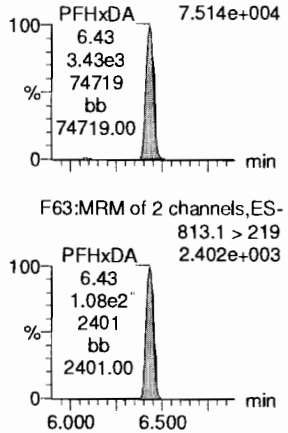
PFTeDA



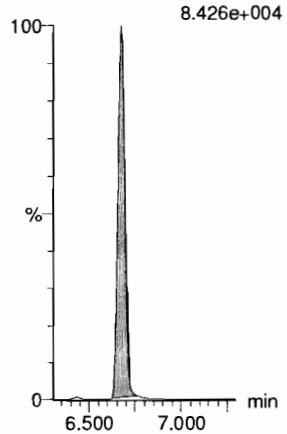
N-EtFOSA



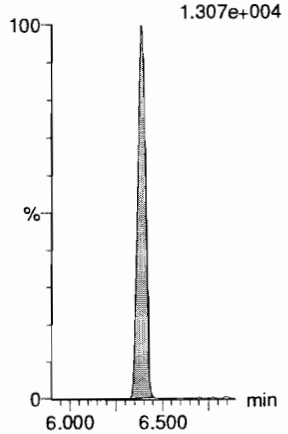
PFHxDA



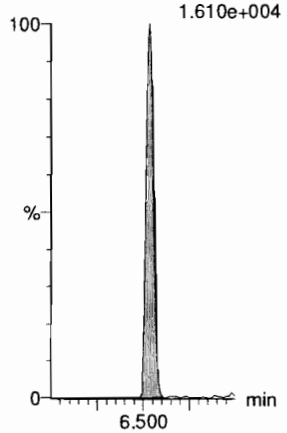
PFODA



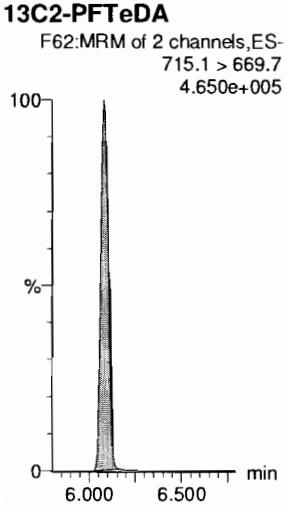
N-MeFOSE



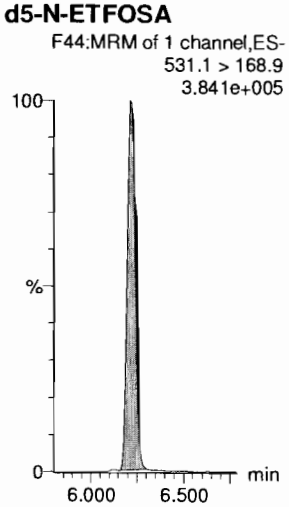
N-EtFOSE



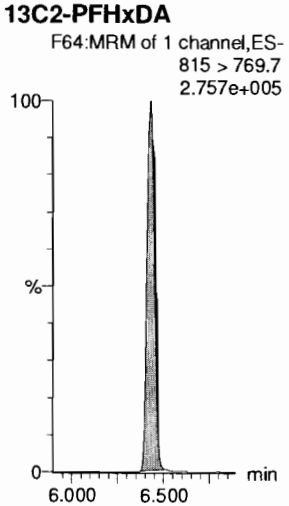
13C2-PFTeDA



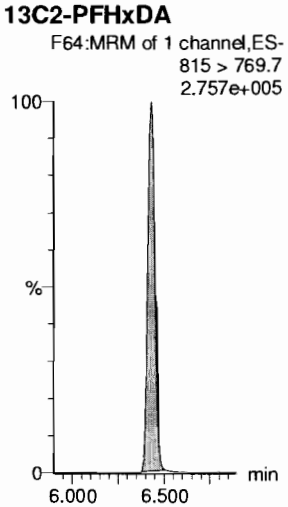
d5-N-ETFOSA



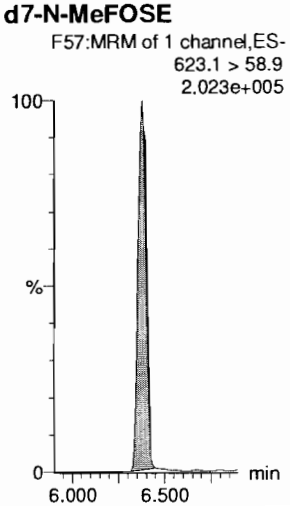
13C2-PFHxDA



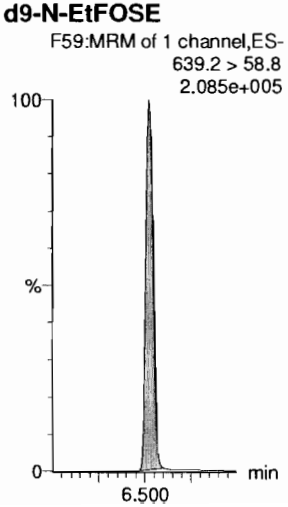
13C2-PFHxDA



d7-N-MeFOSE



d9-N-EtFOSE

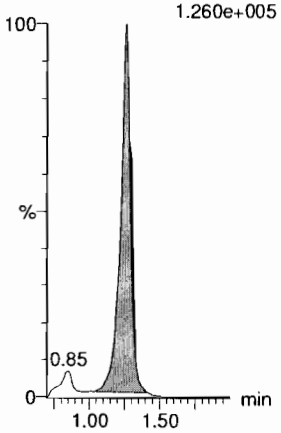


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_5, Date: 19-Feb-2019, Time: 17:21:53, ID: ST190219M2-4 PFC CS1 19B1304, Description: PFC CS1 19B1304

13C4-PFBA



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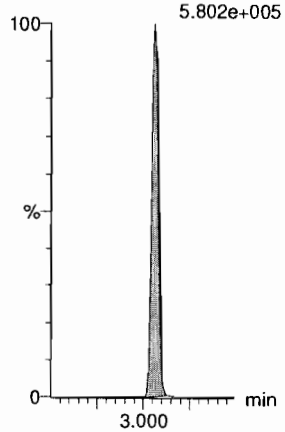
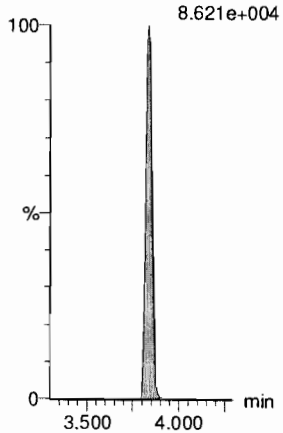
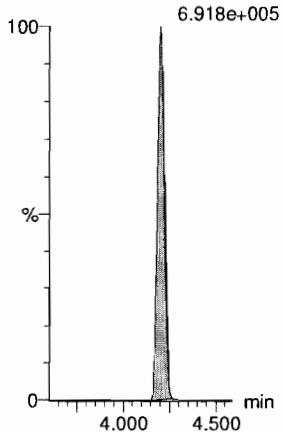


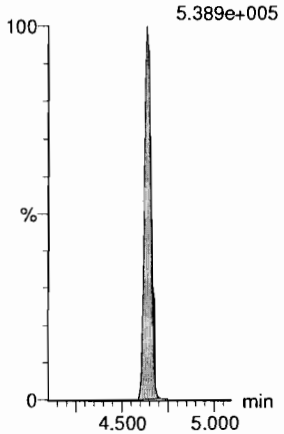
13C3-PFHxS



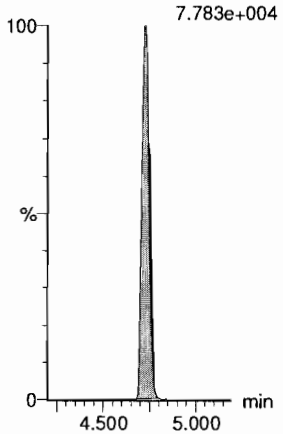
13C8-PFOA



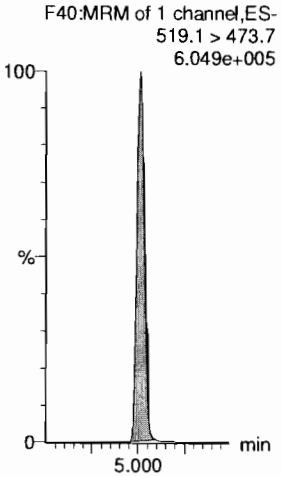
13C9-PFNA



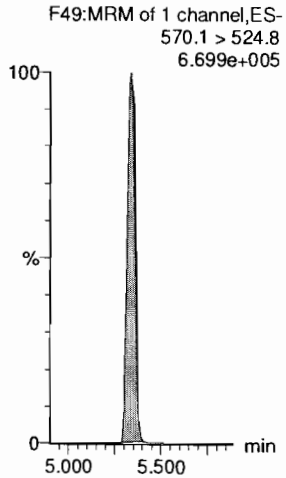
13C4-PFOS



13C6-PFDA



13C7-PFUdA

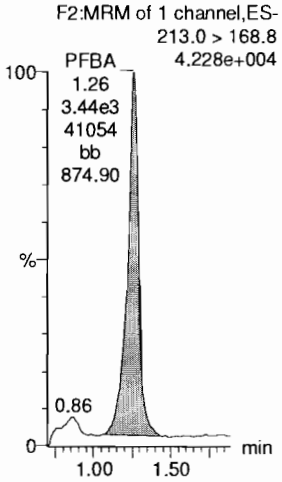


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

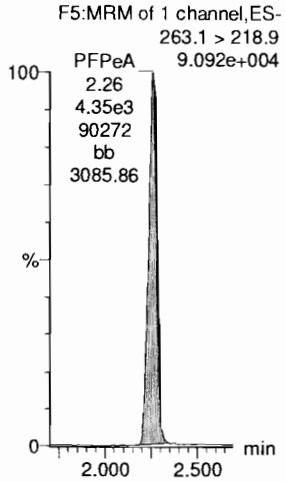
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_6, Date: 19-Feb-2019, Time: 17:32:31, ID: ST190219M2-5 PFC CS2 19B1305, Description: PFC CS2 19B1305

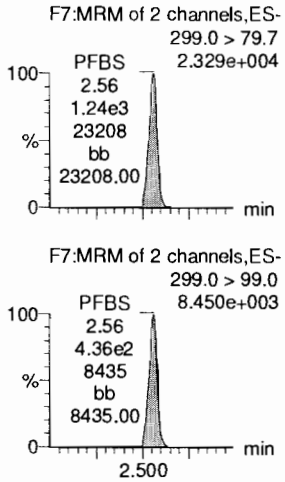
PFBA



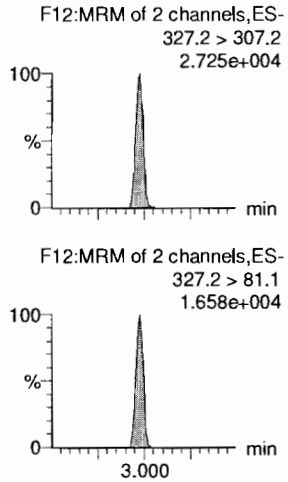
PFPeA



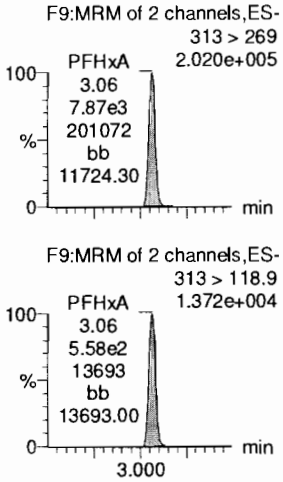
PFBS



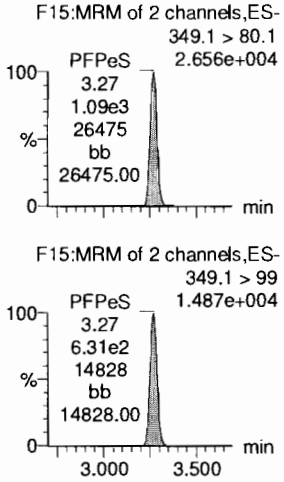
4:2 FTS



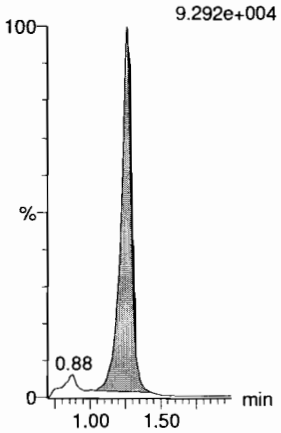
PFHxA



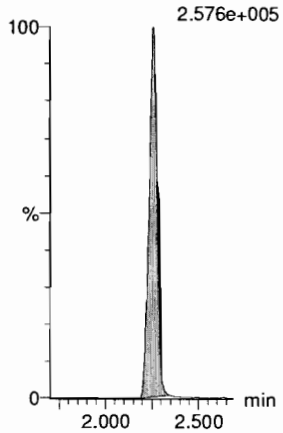
PFPeS



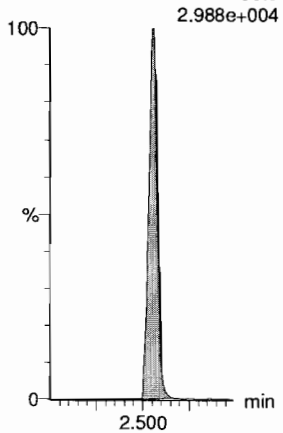
13C3-PFBA



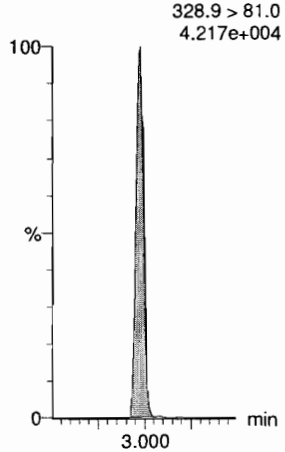
13C3-PFPeA



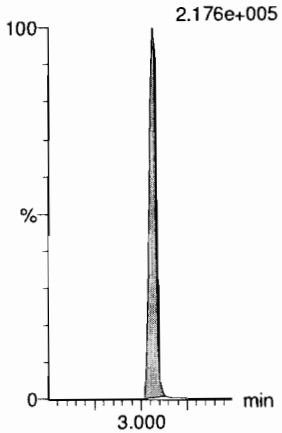
13C3-PFBS



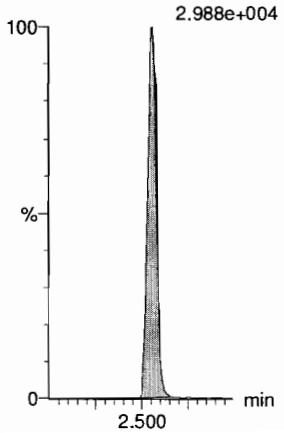
13C2-4:2 FTS



13C2-PFHxA



13C3-PFBS

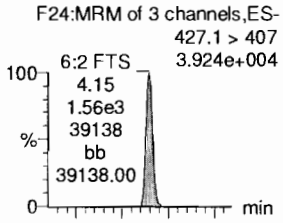


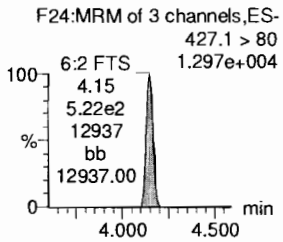
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

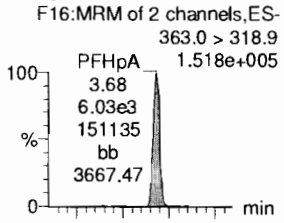
Name: 190219M2_6, Date: 19-Feb-2019, Time: 17:32:31, ID: ST190219M2-5 PFC CS2 19B1305, Description: PFC CS2 19B1305

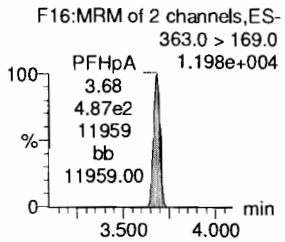
6:2 FTS



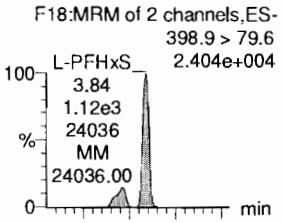


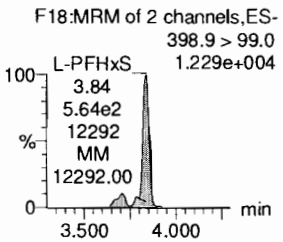
PFHpA



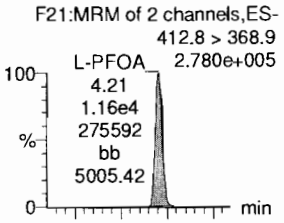


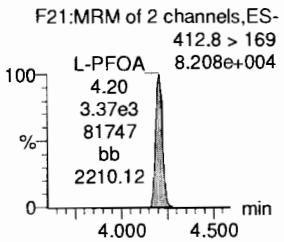
L-PFHxS



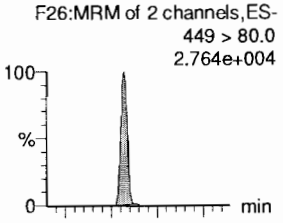


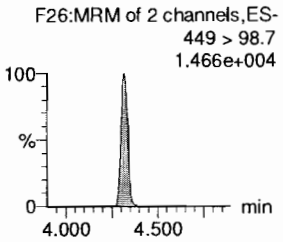
L-PFOA





PFHpS





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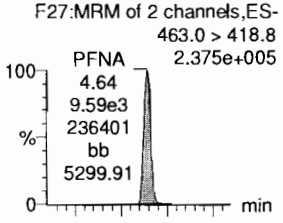
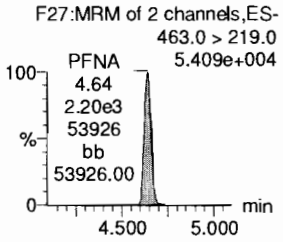
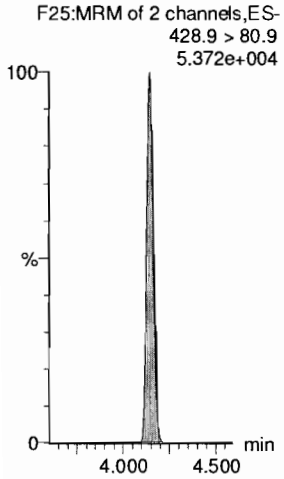
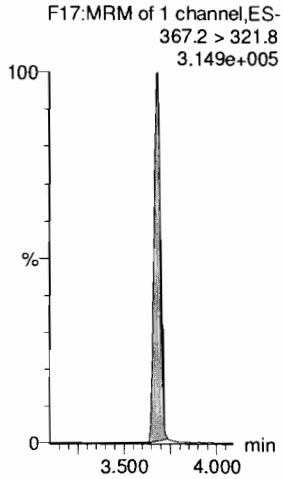




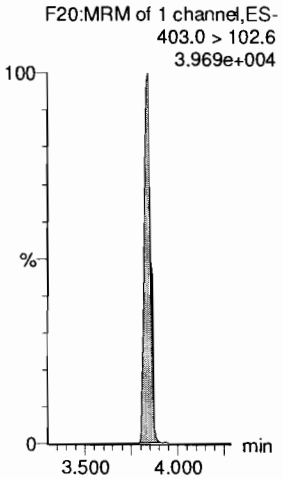
13C2-6:2 FTS



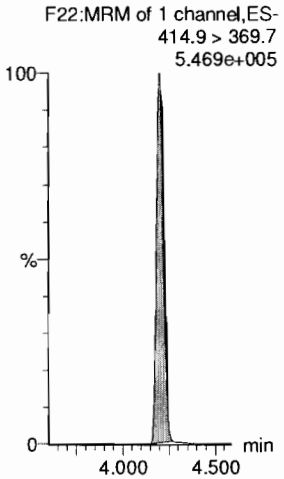
13C4-PFHpA



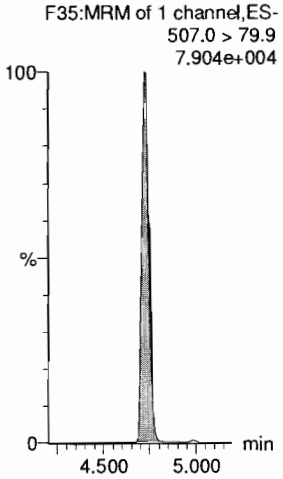
18O2-PFHxS



13C2-PFOA



13C8-PFOS



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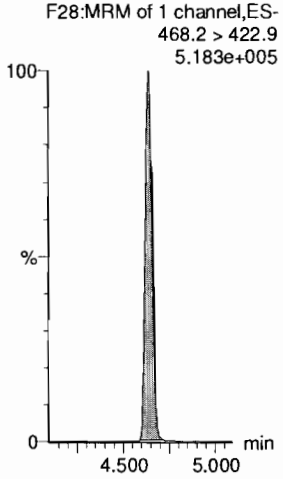

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Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_6, Date: 19-Feb-2019, Time: 17:32:31, ID: ST190219M2-5 PFC CS2 19B1305, Description: PFC CS2 19B1305

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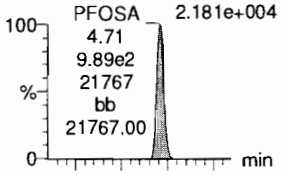

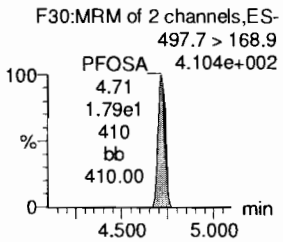

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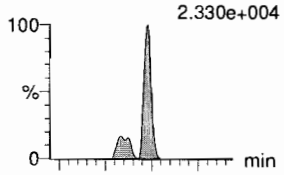

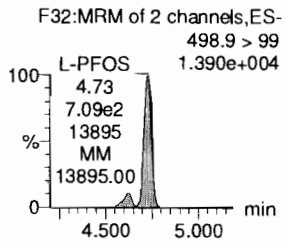

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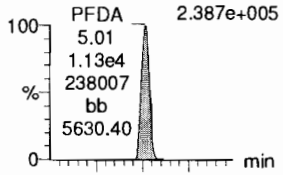
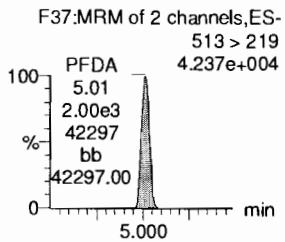
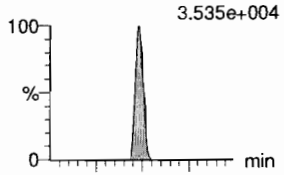
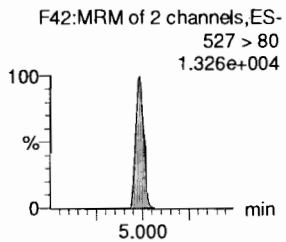


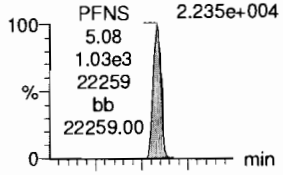


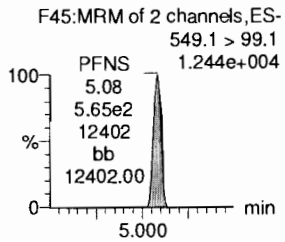
8:2 FTS





PFNS





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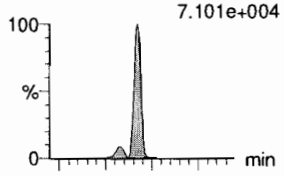

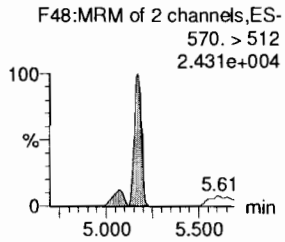

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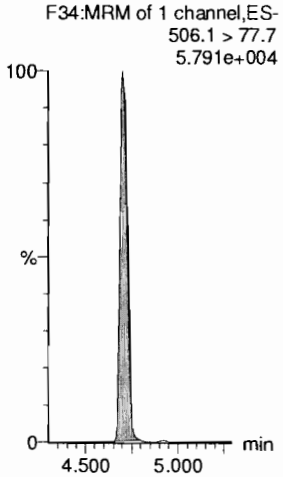

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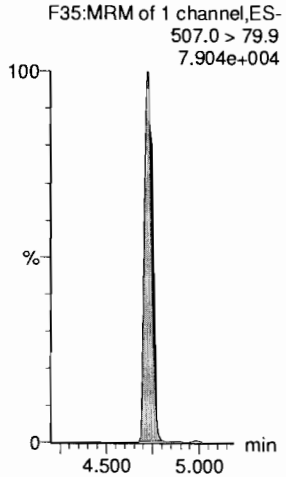

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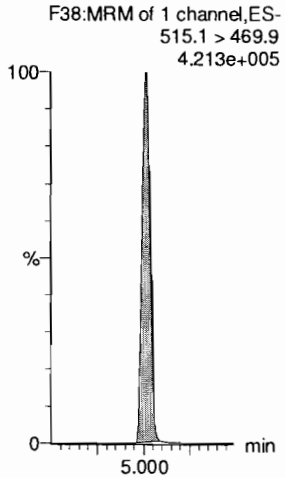
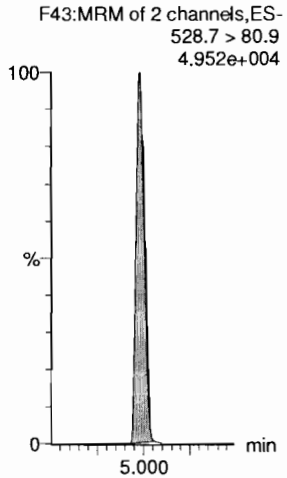


13C2-8:2 FTS



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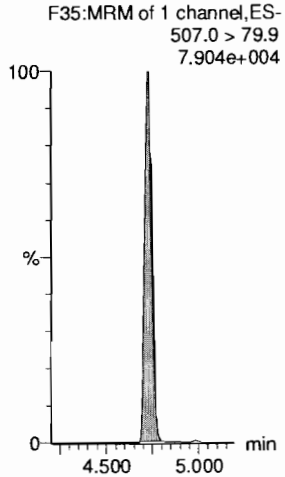

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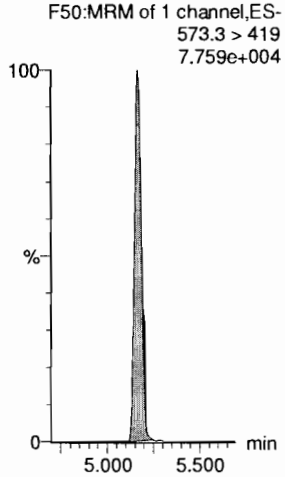

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Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_6, Date: 19-Feb-2019, Time: 17:32:31, ID: ST190219M2-5 PFC CS2 19B1305, Description: PFC CS2 19B1305

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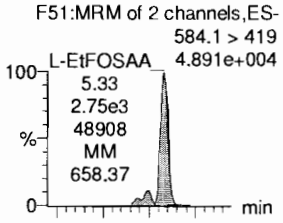
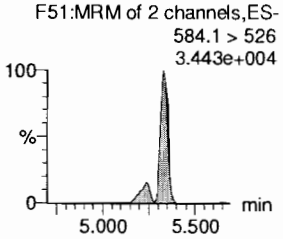
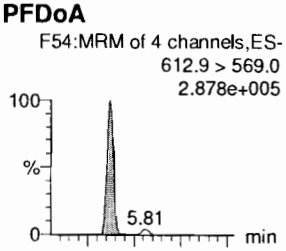
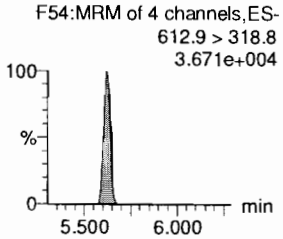




PFDoA





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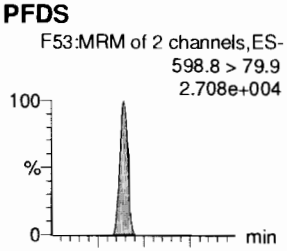

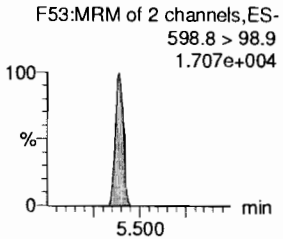

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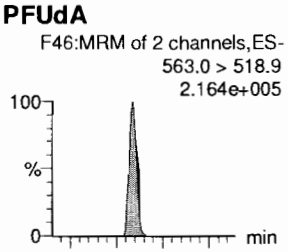

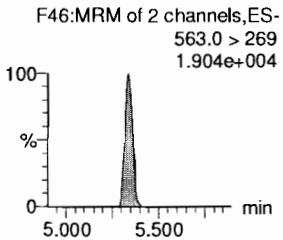

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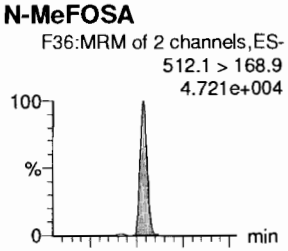

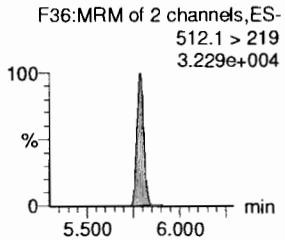

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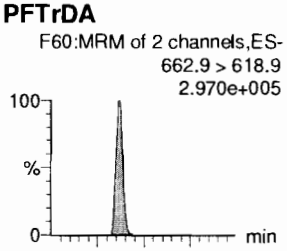
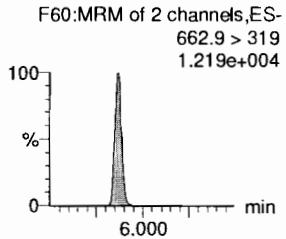
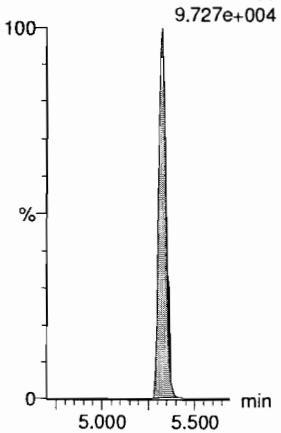




d5-N-EtFOSAA



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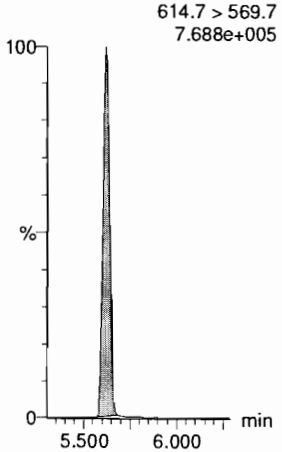
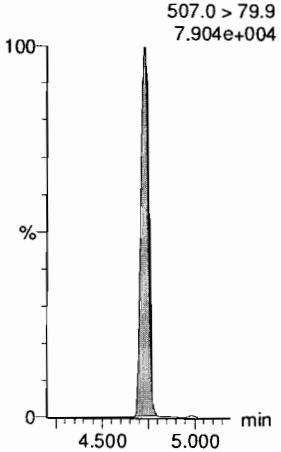


13C8-PFOS



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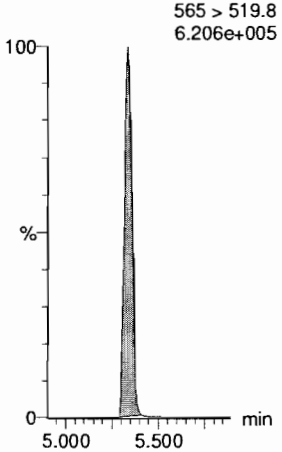
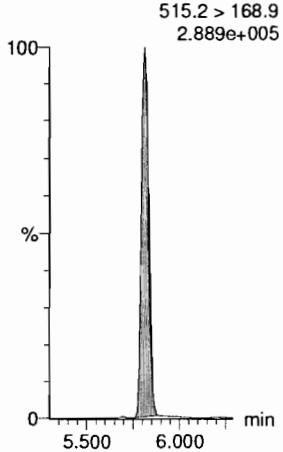


d3-N-MeFOSA



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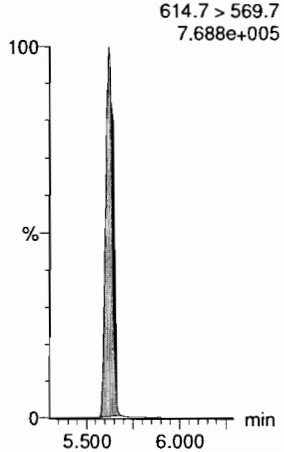

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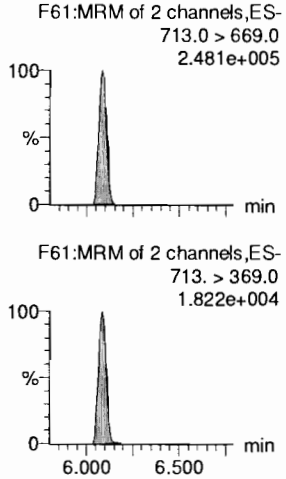
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_6, Date: 19-Feb-2019, Time: 17:32:31, ID: ST190219M2-5 PFC CS2 19B1305, Description: PFC CS2 19B1305

PFTeDA



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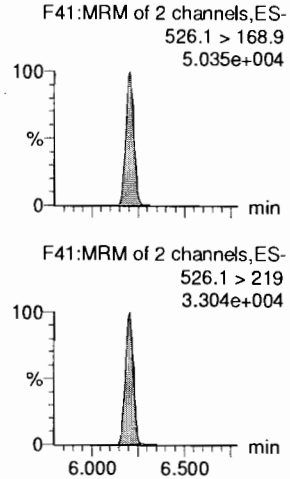

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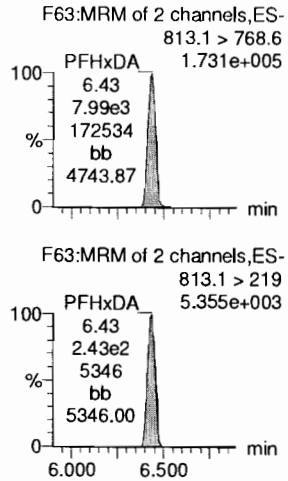

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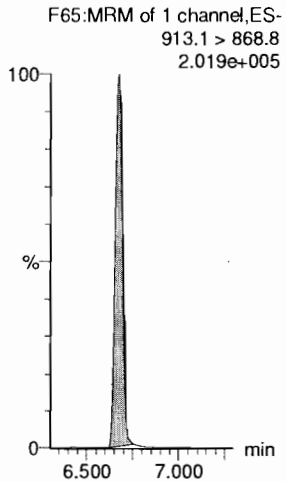

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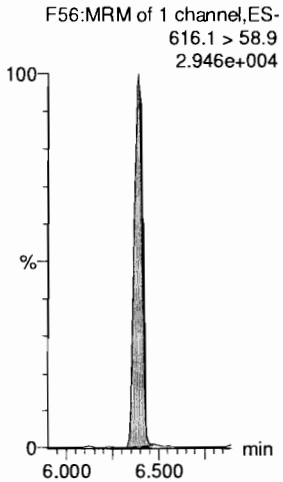

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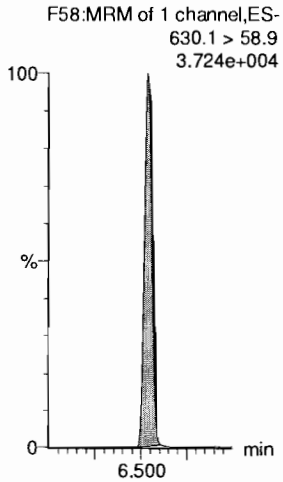

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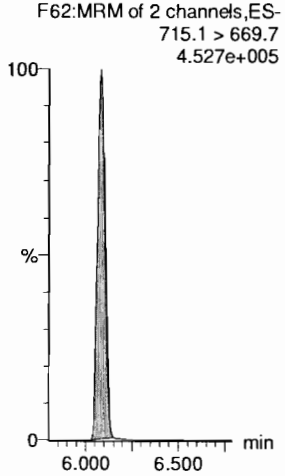
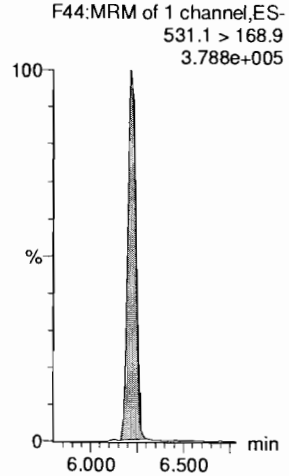


d5-N-ETFOSA



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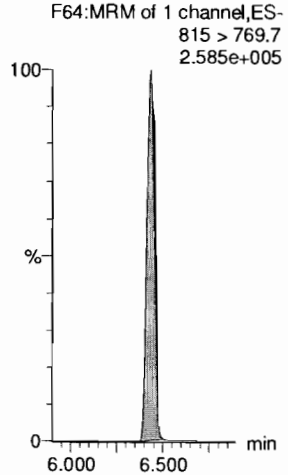
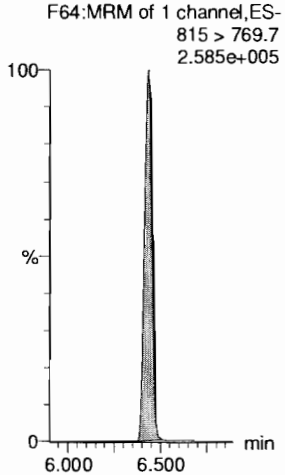
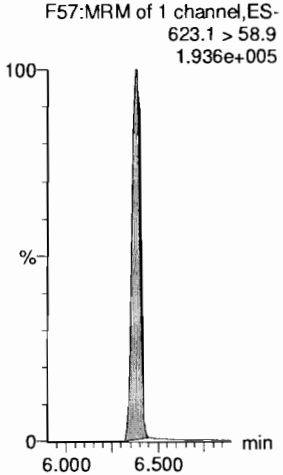


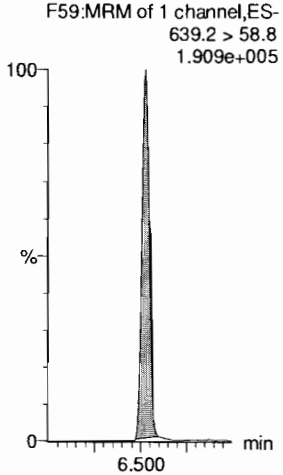
13C2-PFHxDA



d7-N-MeFOSE



d9-N-EtFOSE



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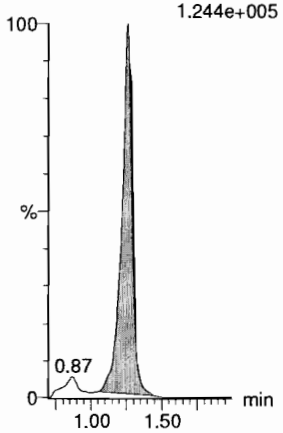
Name: 190219M2_6, Date: 19-Feb-2019, Time: 17:32:31, ID: ST190219M2-5 PFC CS2 19B1305, Description: PFC CS2 19B1305

13C4-PFBA



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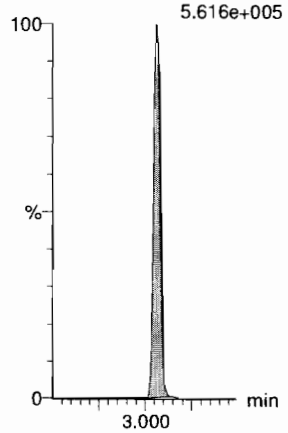
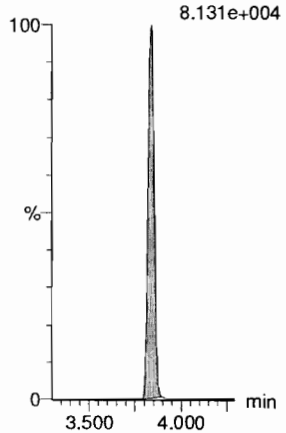
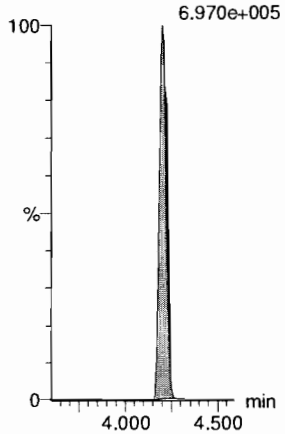


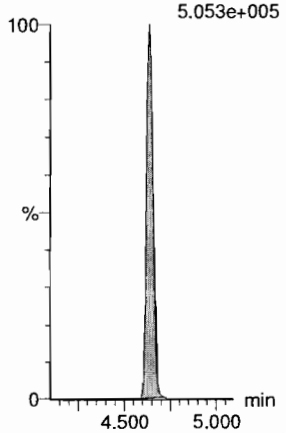
13C3-PFHxS



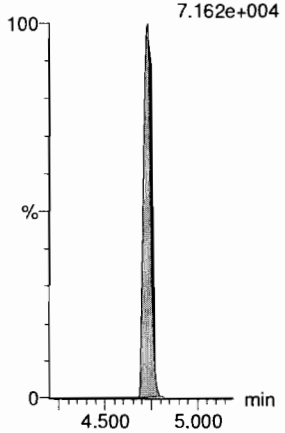
13C8-PFOA



13C9-PFNA



13C4-PFOS



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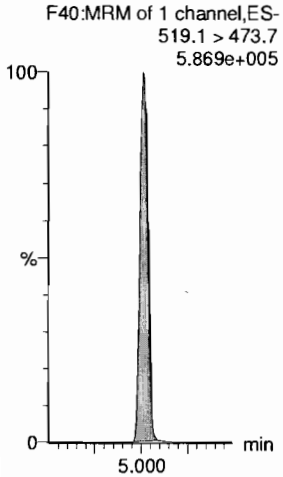
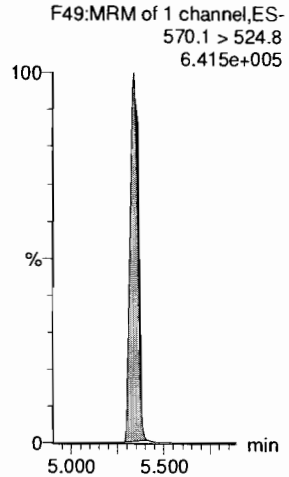


13C7-PFUdA

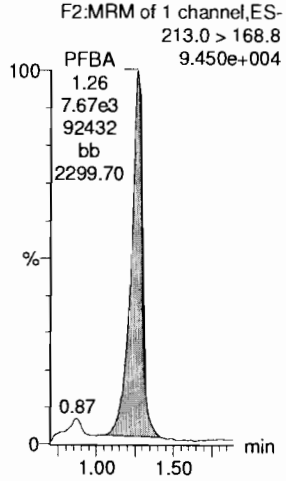


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

PFBA



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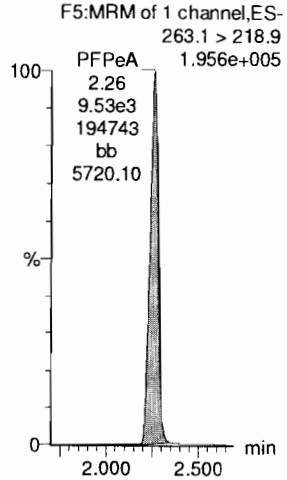
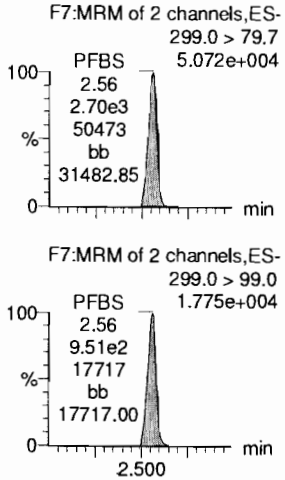
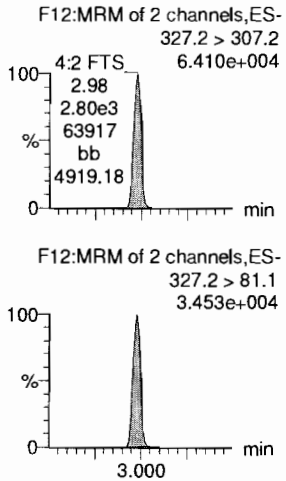


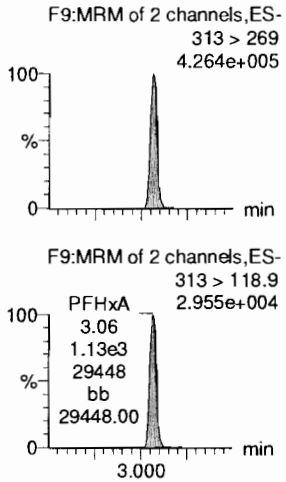
PFBS



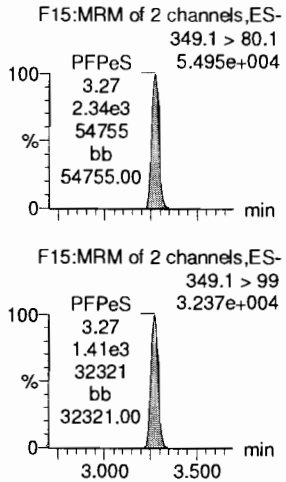
4:2 FTS



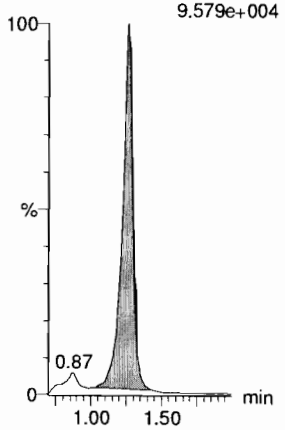
PFHxA



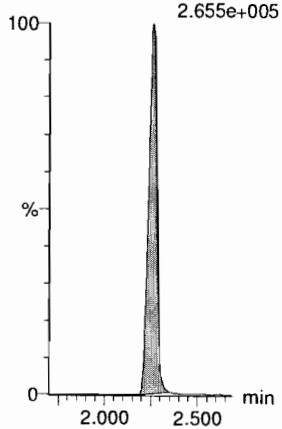
PFPeS



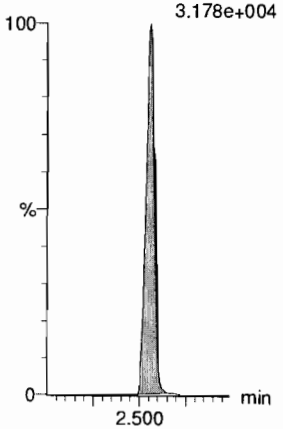
13C3-PFBA



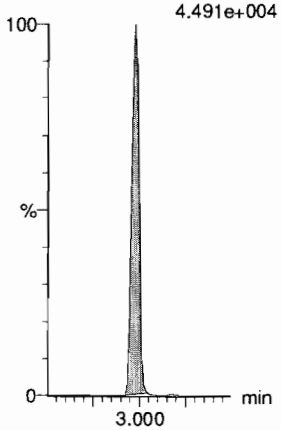
13C3-PFPeA



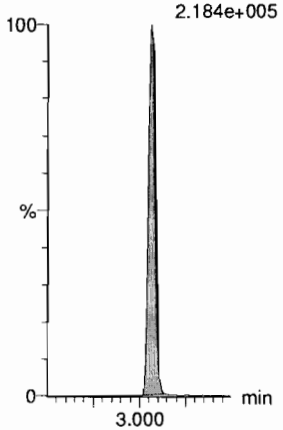
13C3-PFBS



13C2-4:2 FTS



13C2-PFHxA



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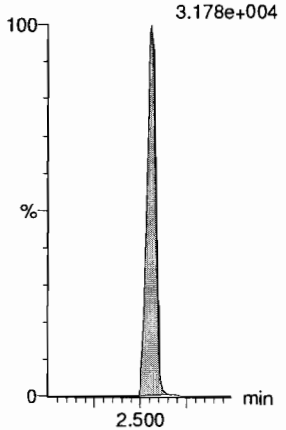
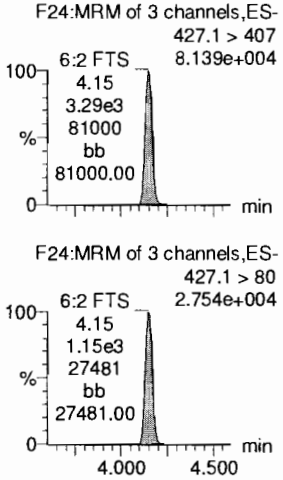


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

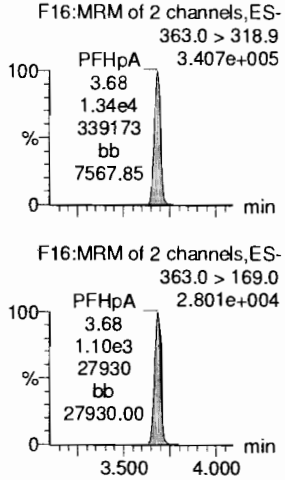
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

6:2 FTS



PFHpA



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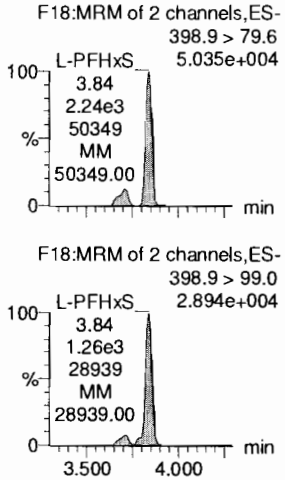
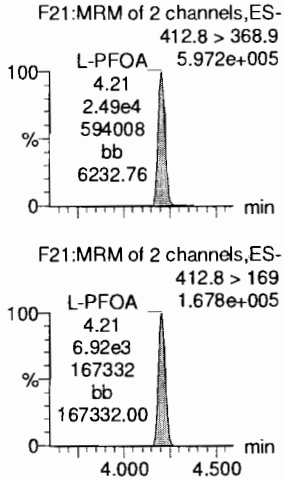
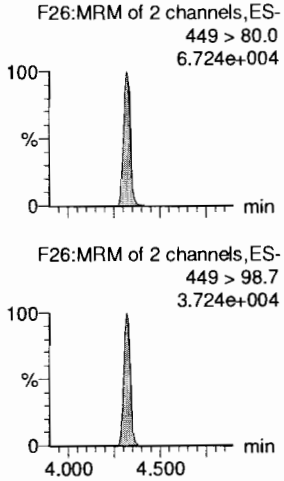


L-PFOA



PFHpS



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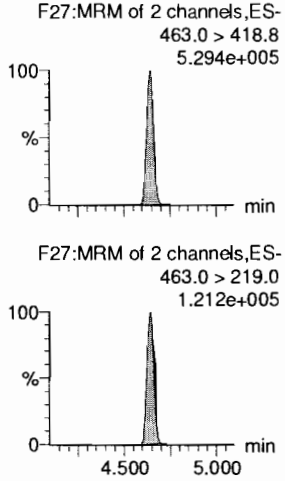
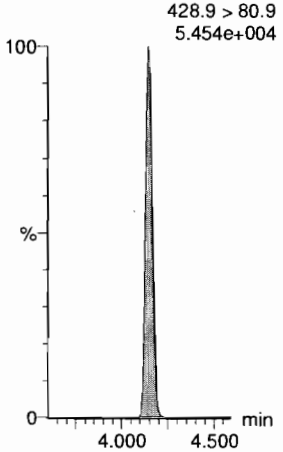
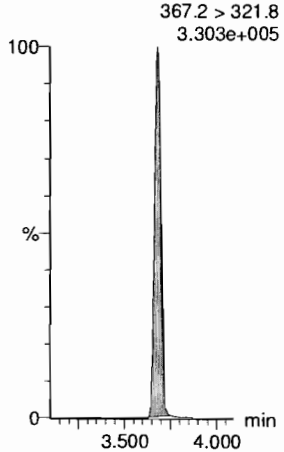


13C2-6:2 FTS



13C4-PFHpA



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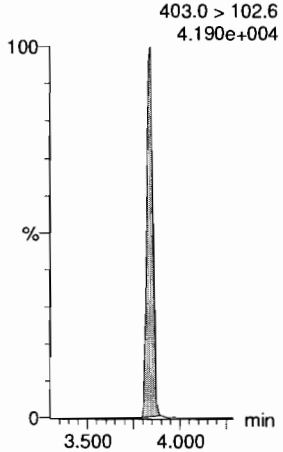
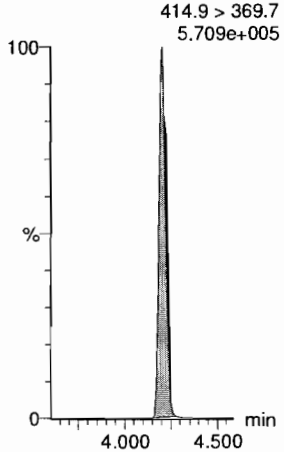
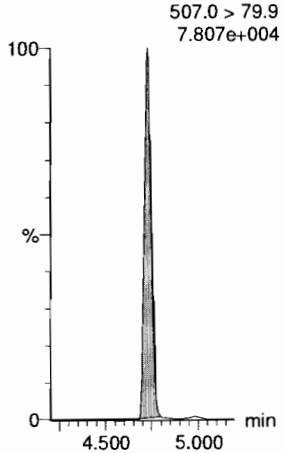


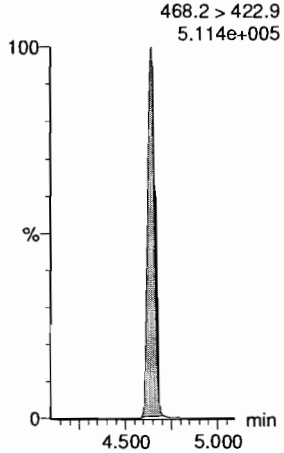
13C2-PFOA



13C8-PFOS



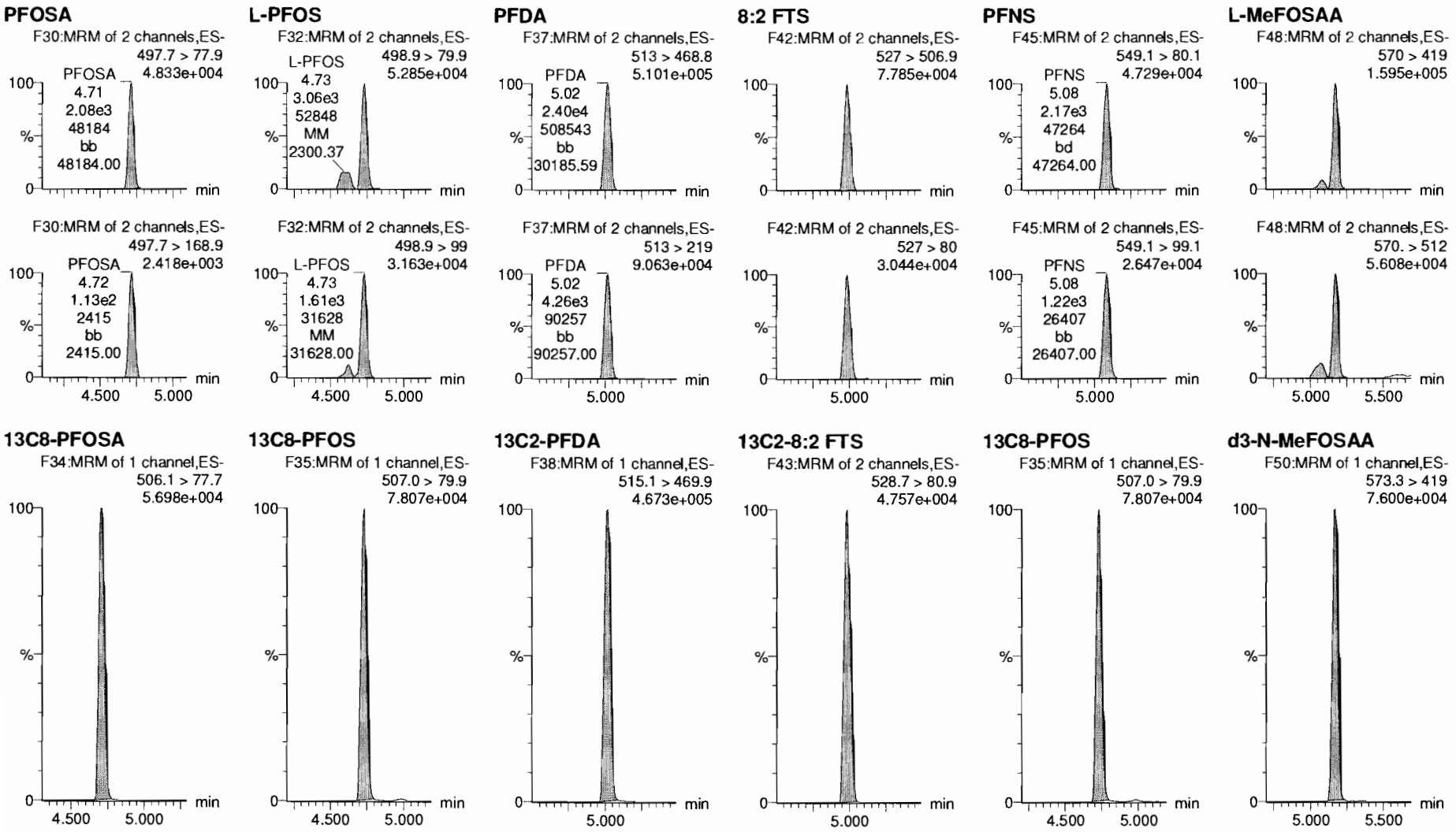
13C5-PFNA



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306



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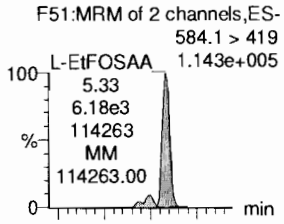
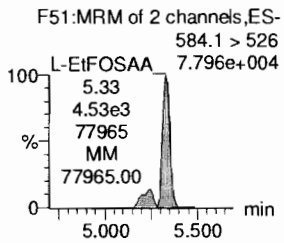
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

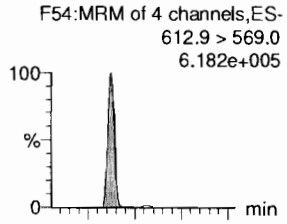
Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

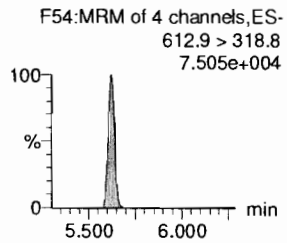
L-EtFOSAA



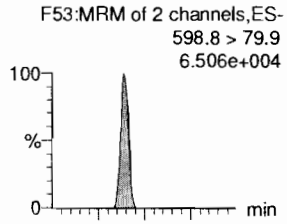


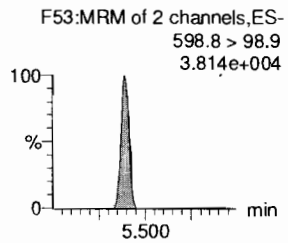
PFDoA



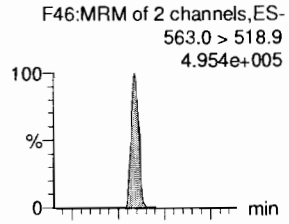


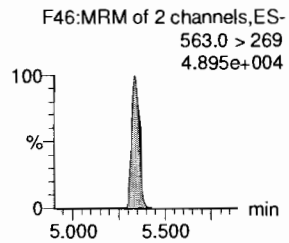
PFDS



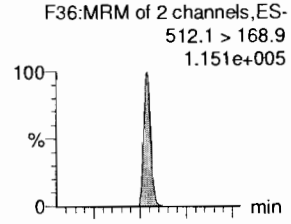


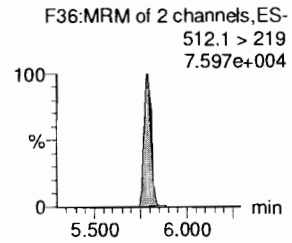
PFUdA





N-MeFOSA





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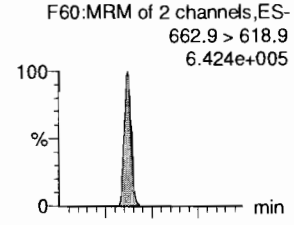
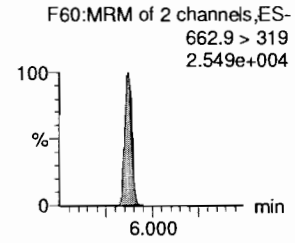
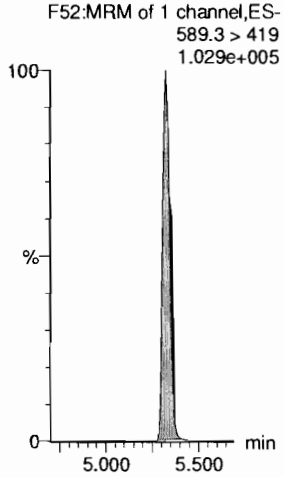
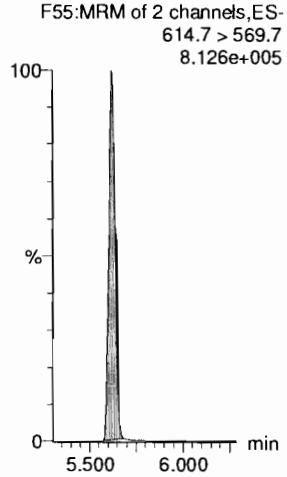




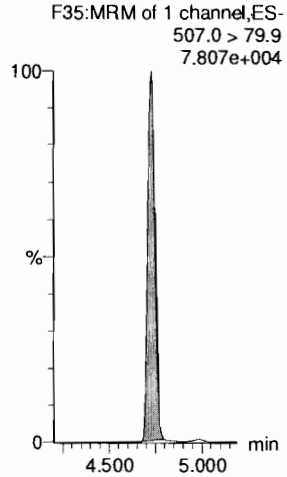
d5-N-EtFOSAA



13C2-PFDoA



13C8-PFOS



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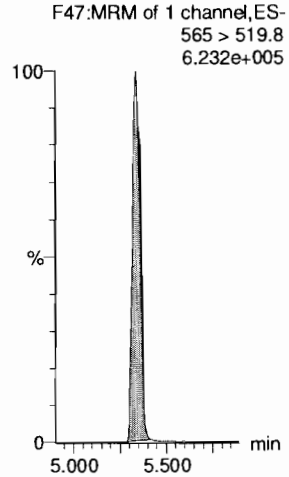

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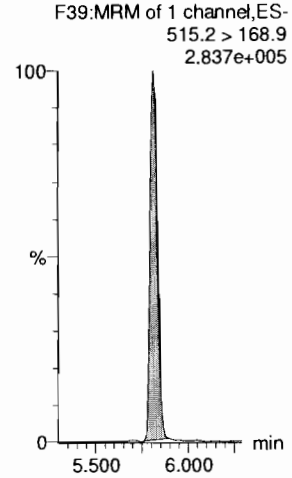
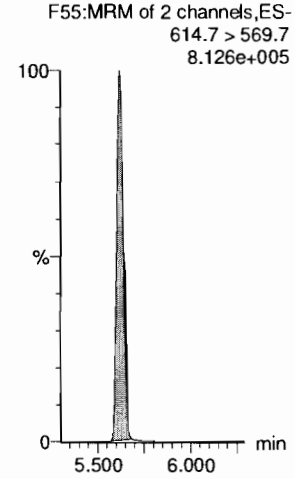


13C2-PFDoA



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

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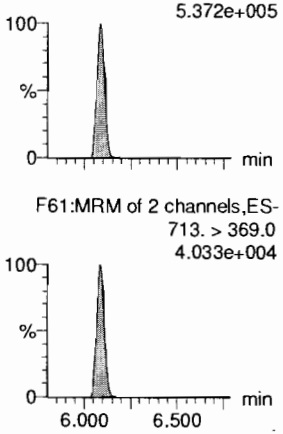
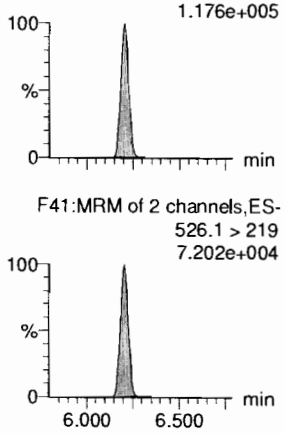
Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

PFTeDA



N-EtFOSA



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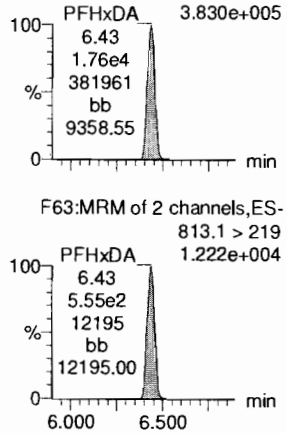

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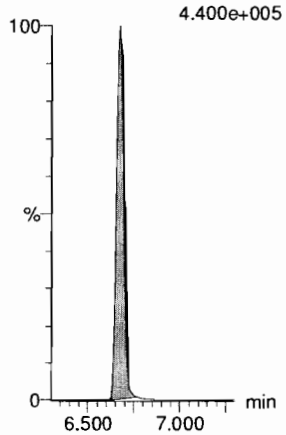
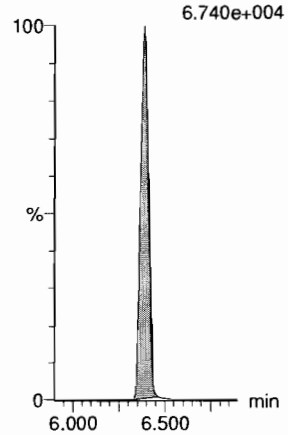
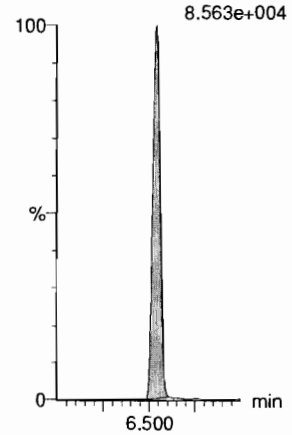


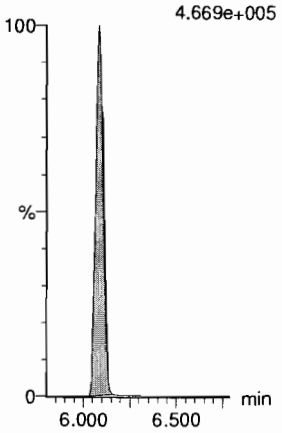
N-MeFOSE



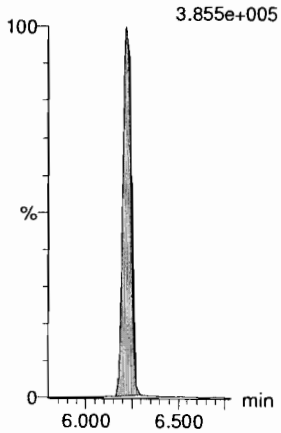
N-EtFOSE



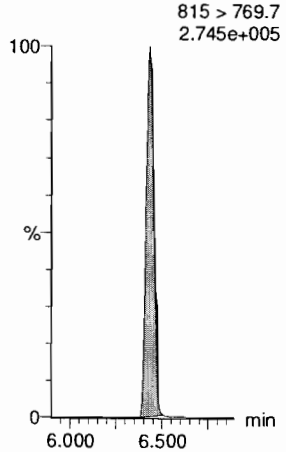
13C2-PFTeDA



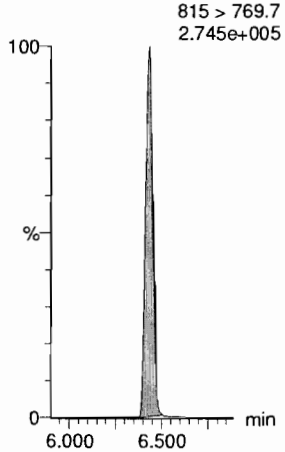
d5-N-ETFOSA



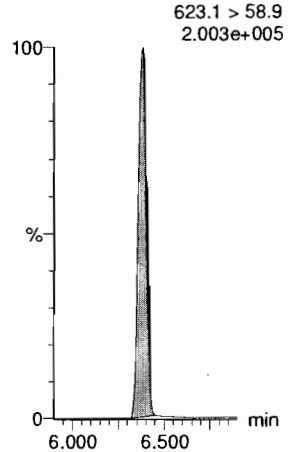
13C2-PFHxDA



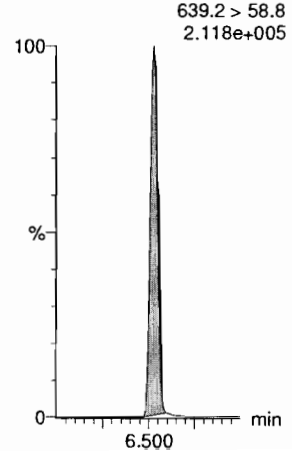
13C2-PFHxDA



d7-N-MeFOSE



d9-N-EtFOSE

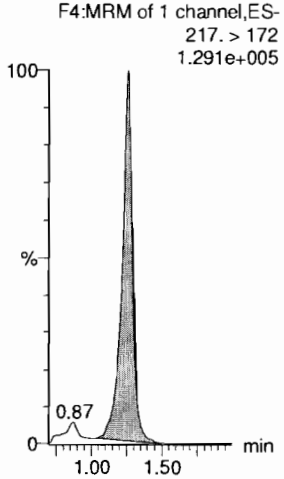


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

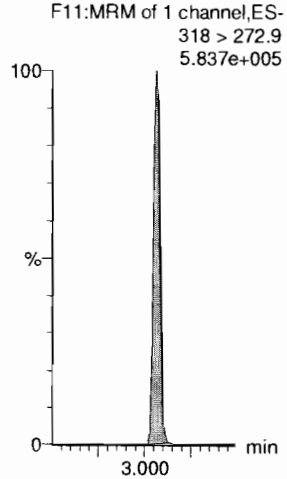
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_7, Date: 19-Feb-2019, Time: 17:43:04, ID: ST190219M2-6 PFC CS3 19B1306, Description: PFC CS3 19B1306

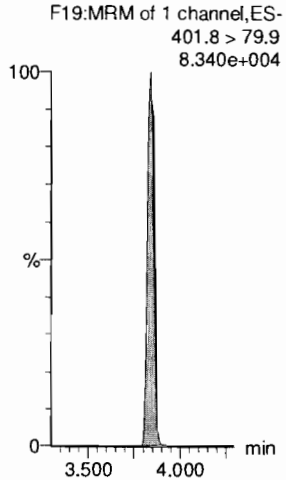
13C4-PFBA



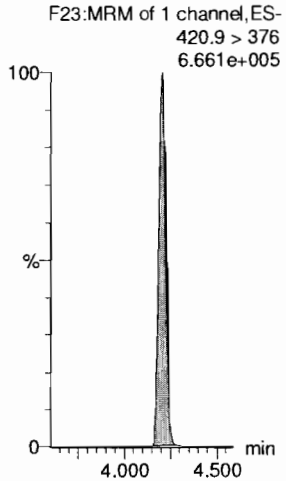
13C5-PFHxA



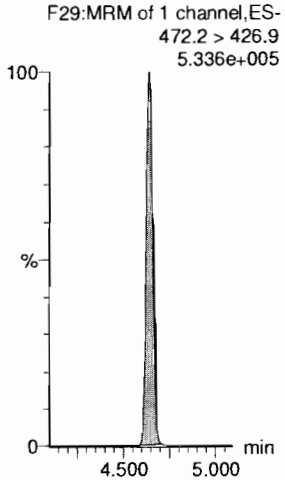
13C3-PFHxS



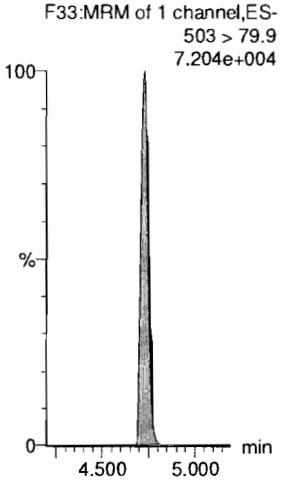
13C8-PFOA



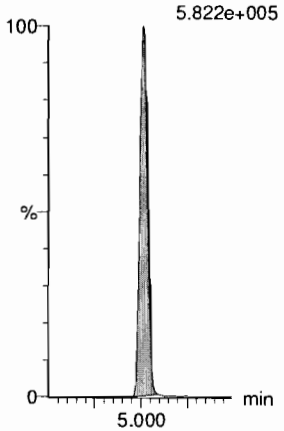
13C9-PFNA



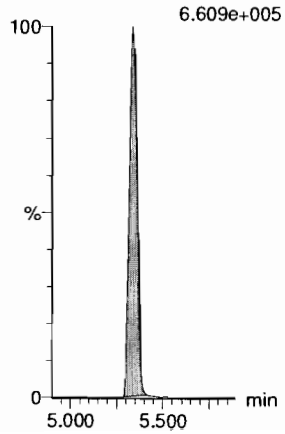
13C4-PFOS



13C6-PFDA



13C7-PFUdA

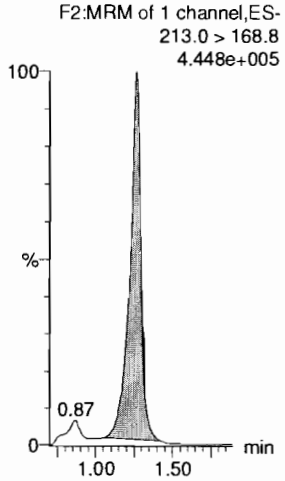


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

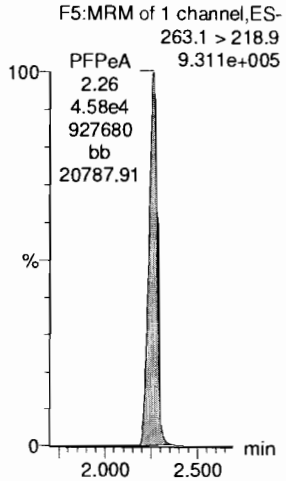
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_8, Date: 19-Feb-2019, Time: 17:53:43, ID: ST190219M2-7 PFC CS4 19B1307, Description: PFC CS4 19B1307

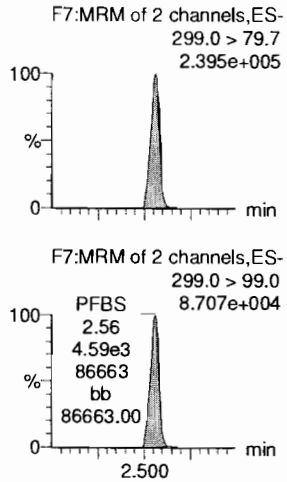
PFBA



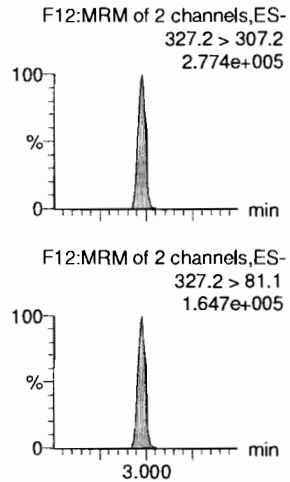
PFPeA



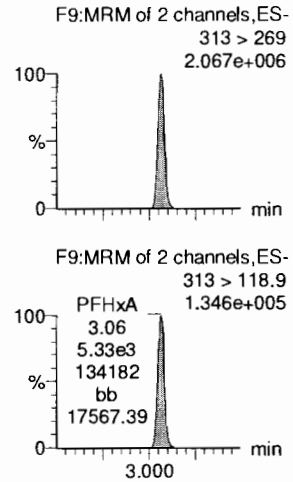
PFBS



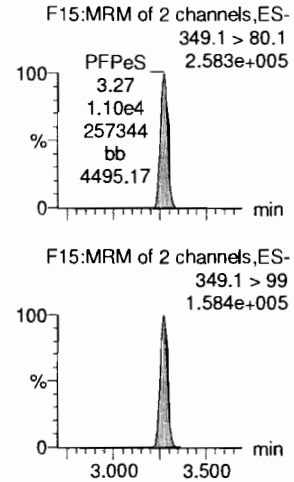
4:2 FTS



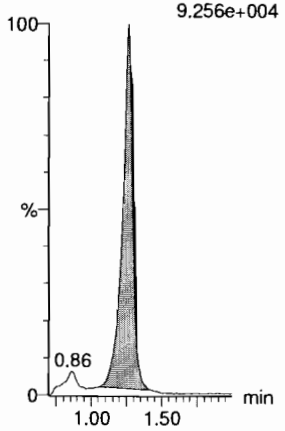
PFHxA



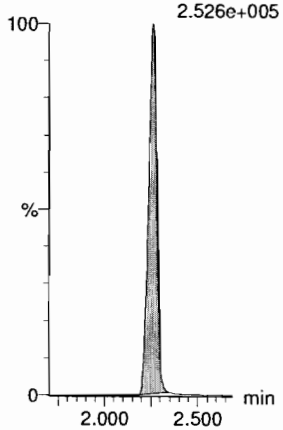
PFPeS



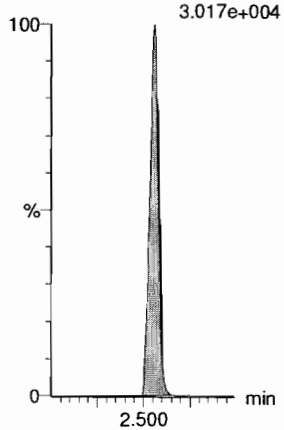
13C3-PFBA



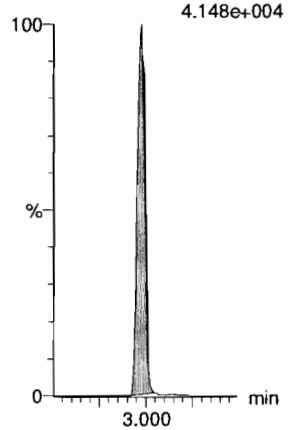
13C3-PFPeA



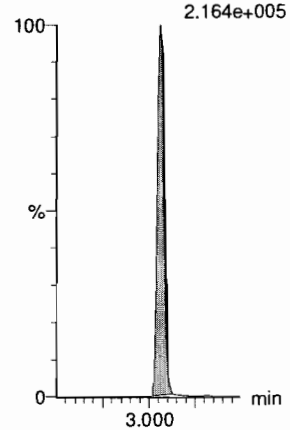
13C3-PFBS



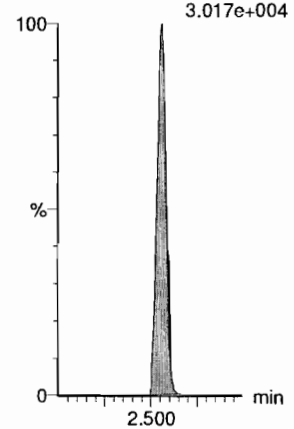
13C2-4:2 FTS



13C2-PFHxA



13C3-PFBS

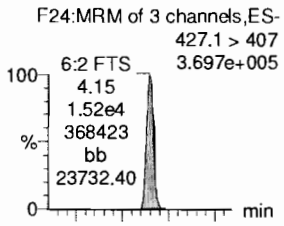


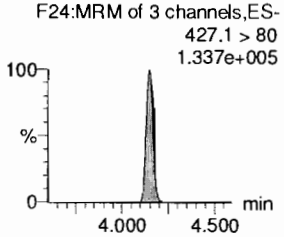
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

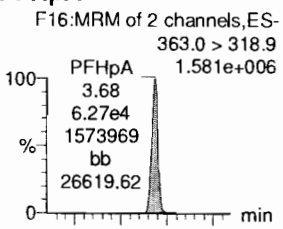
Name: 190219M2_8, Date: 19-Feb-2019, Time: 17:53:43, ID: ST190219M2-7 PFC CS4 19B1307, Description: PFC CS4 19B1307

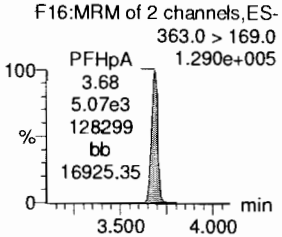
6:2 FTS



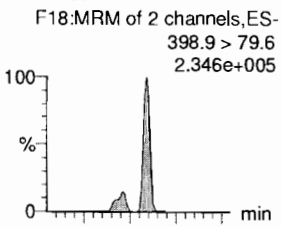


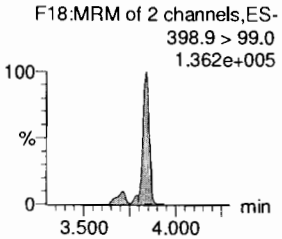
PFHpA



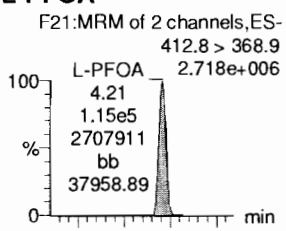


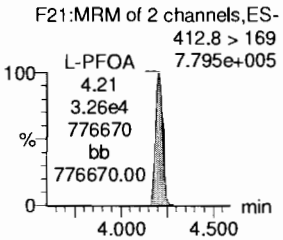
L-PFHxS



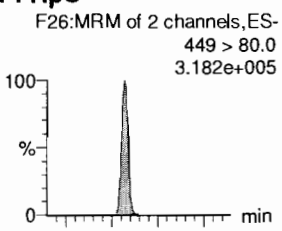


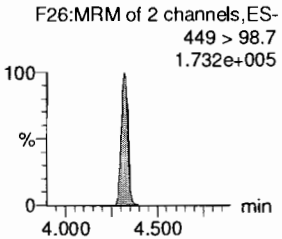
L-PFOA



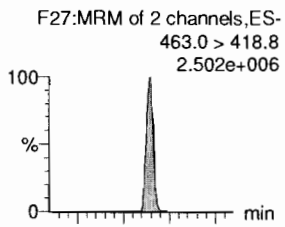


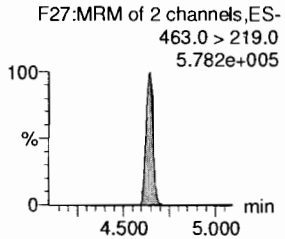
PFHpS



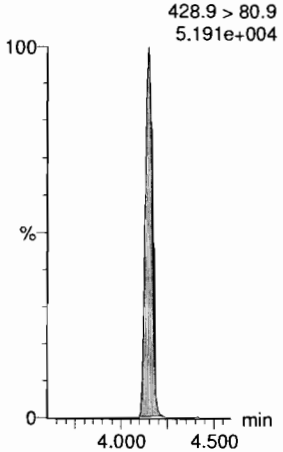


PFNA

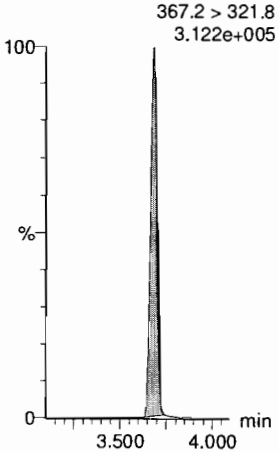




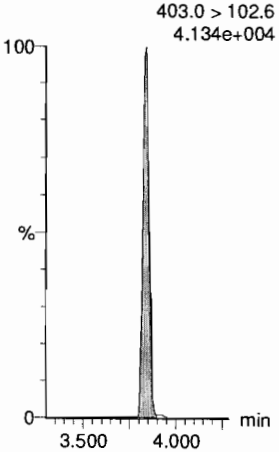
13C2-6:2 FTS



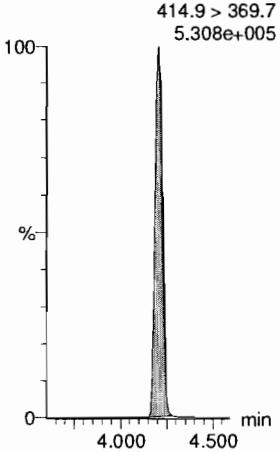
13C4-PFHpA



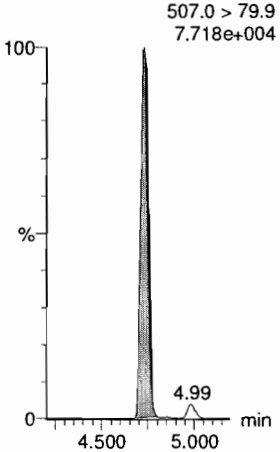
18O2-PFHxS



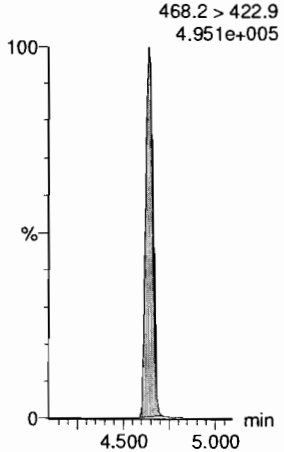
13C2-PFOA



13C8-PFOS



13C5-PFNA



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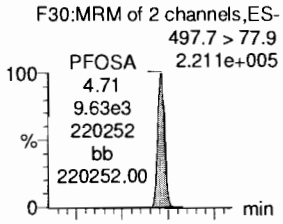
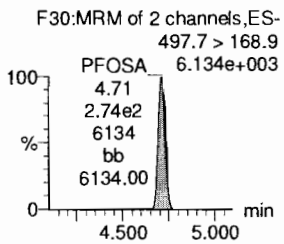
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

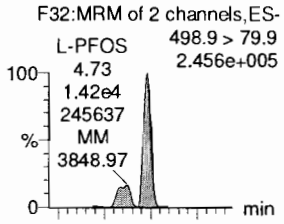
Name: 190219M2_8, Date: 19-Feb-2019, Time: 17:53:43, ID: ST190219M2-7 PFC CS4 19B1307, Description: PFC CS4 19B1307

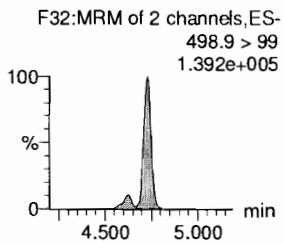
PFOSA



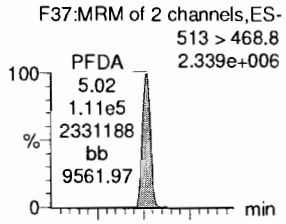


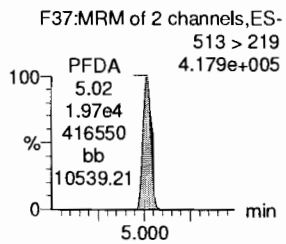
L-PFOS



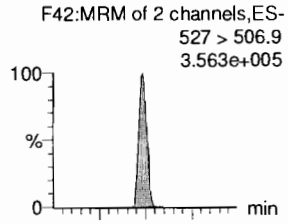


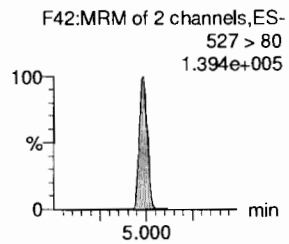
PFDA



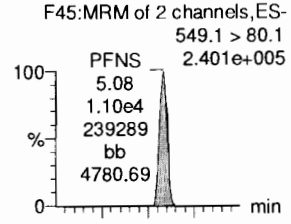


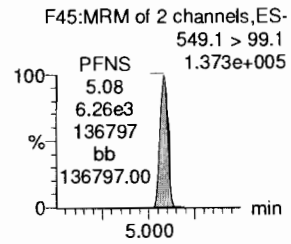
8:2 FTS



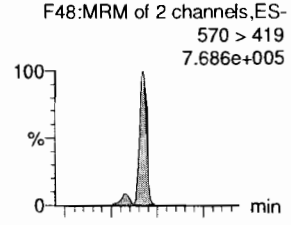


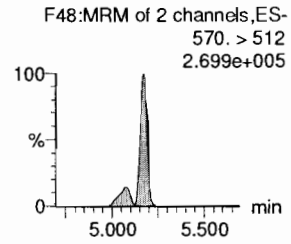
PFNS



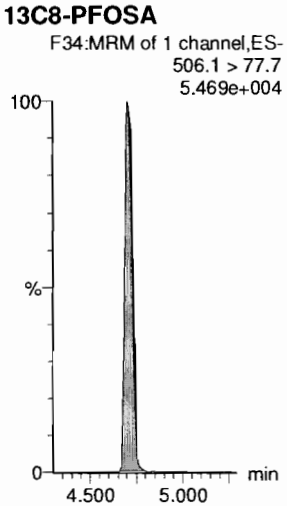


L-MeFOSAA

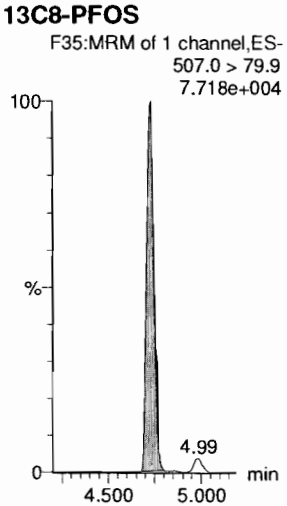




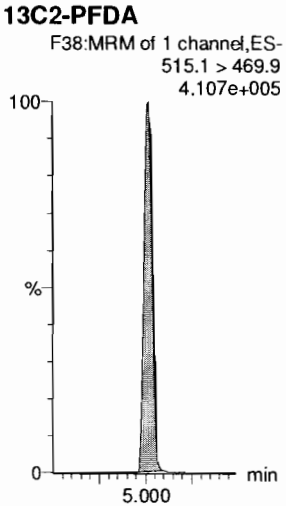
13C8-PFOSA



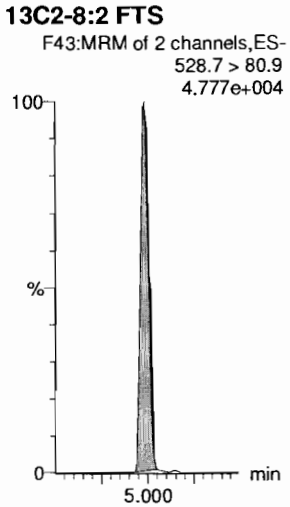
13C8-PFOS



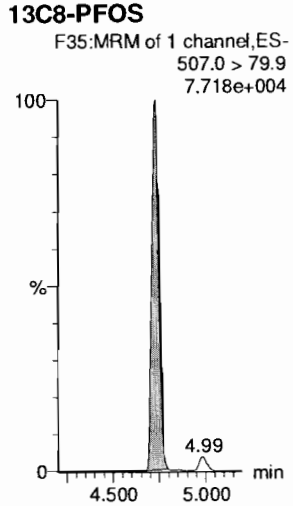
13C2-PFDA



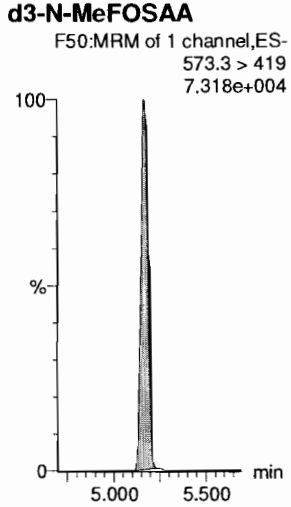
13C2-8:2 FTS



13C8-PFOS



d3-N-MeFOSAA



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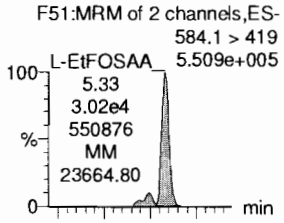
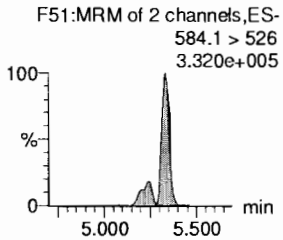
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

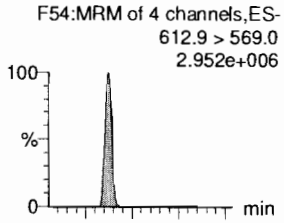
Name: 190219M2_8, Date: 19-Feb-2019, Time: 17:53:43, ID: ST190219M2-7 PFC CS4 19B1307, Description: PFC CS4 19B1307

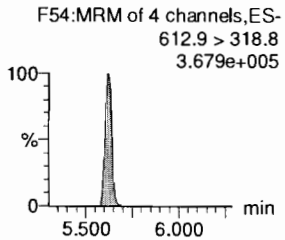
L-EtFOSAA



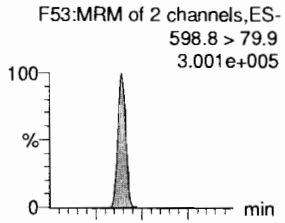


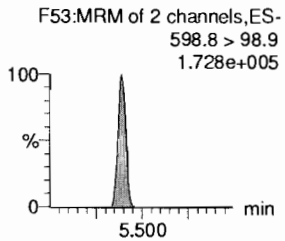
PFDoA



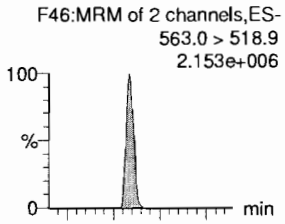


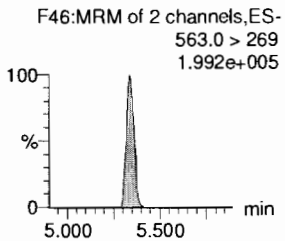
PFDS



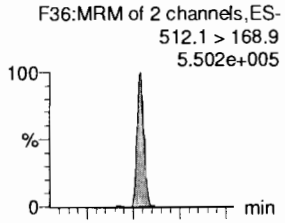


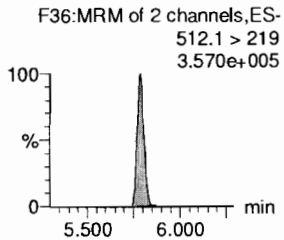
PFUdA



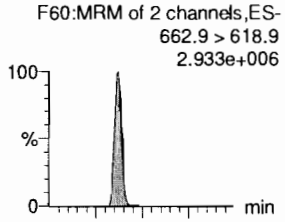


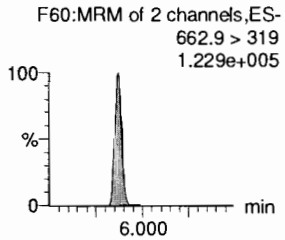
N-MeFOSA



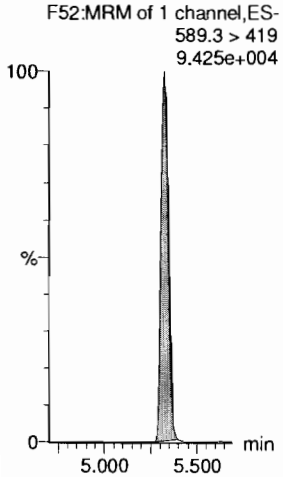


PFTrDA

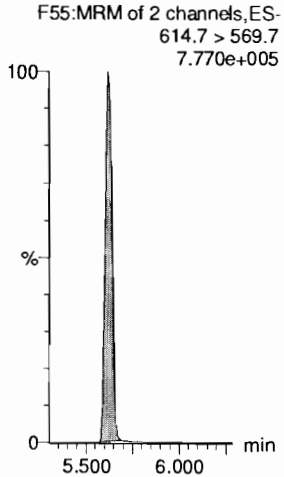




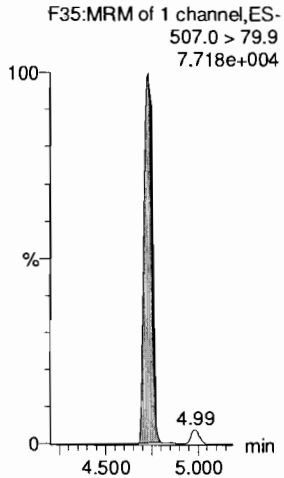
d5-N-EtFOSAA



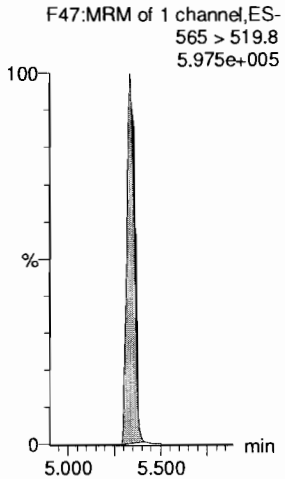
13C2-PFDoA



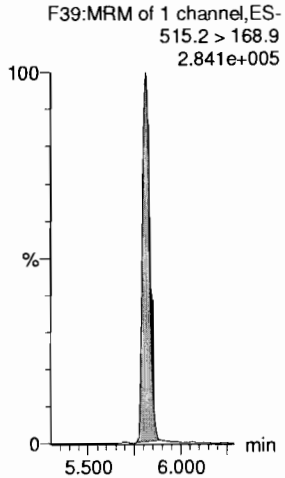
13C8-PFOS



13C2-PFUdA



d3-N-MeFOSA



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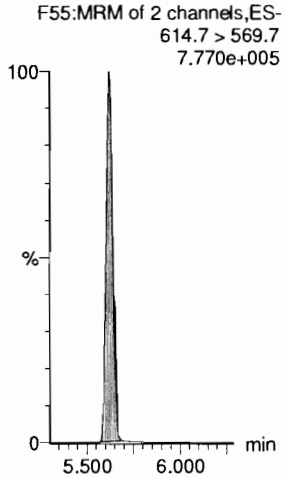
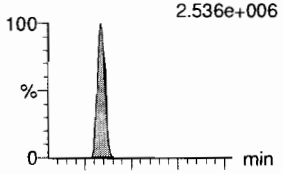


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

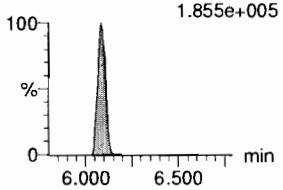
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_8, Date: 19-Feb-2019, Time: 17:53:43, ID: ST190219M2-7 PFC CS4 19B1307, Description: PFC CS4 19B1307

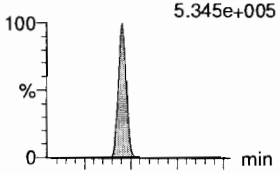
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
2.536e+006



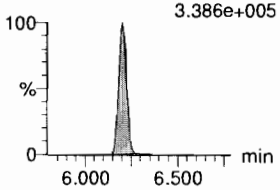
F61:MRM of 2 channels,ES-
713. > 369.0
1.855e+005



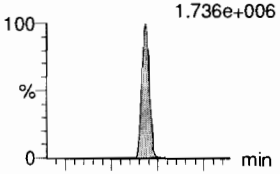
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
5.345e+005



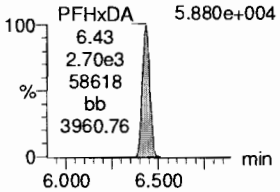
F41:MRM of 2 channels,ES-
526.1 > 219
3.386e+005



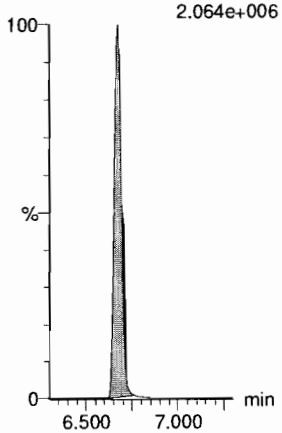
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
1.736e+006



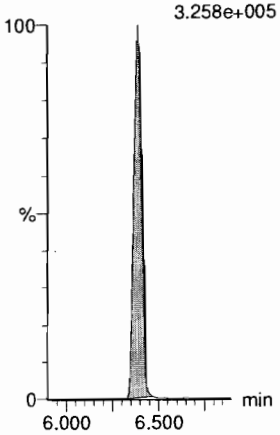
F63:MRM of 2 channels,ES-
813.1 > 219
5.880e+004



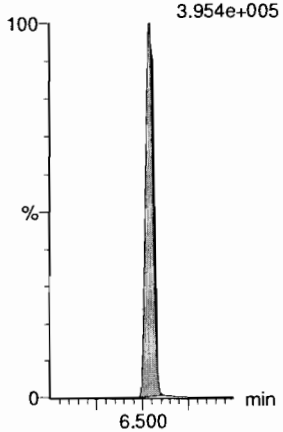
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
2.064e+006



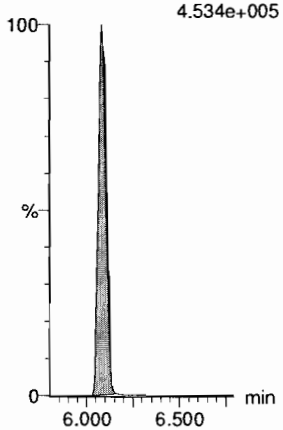
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
3.258e+005



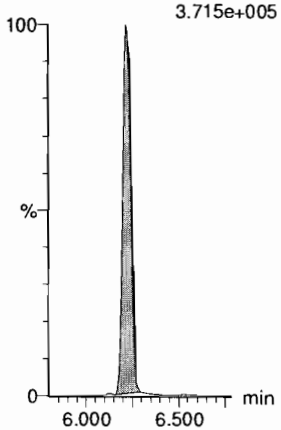
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
3.954e+005



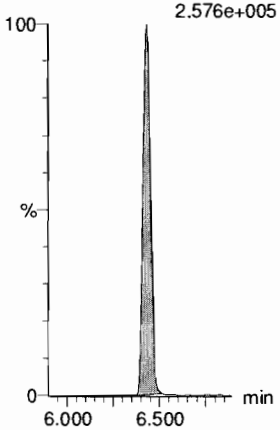
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
4.534e+005



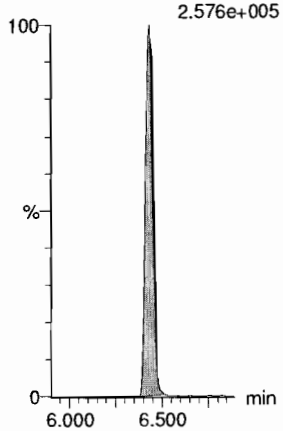
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.715e+005



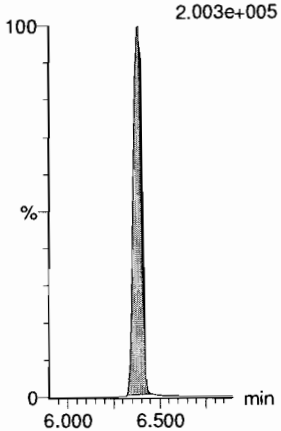
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.576e+005



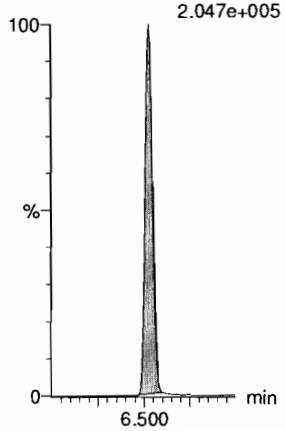
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.576e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
2.003e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
2.047e+005

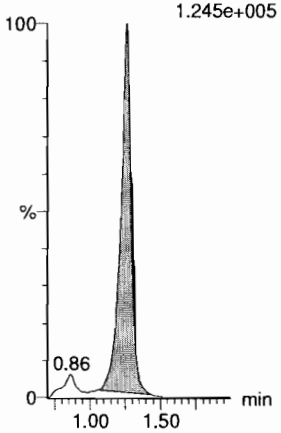


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

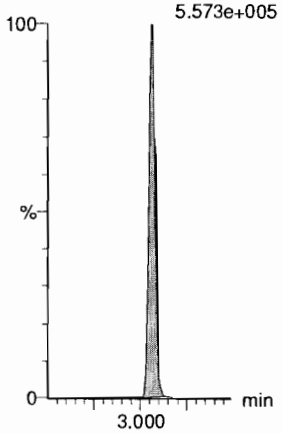
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_8, Date: 19-Feb-2019, Time: 17:53:43, ID: ST190219M2-7 PFC CS4 19B1307, Description: PFC CS4 19B1307

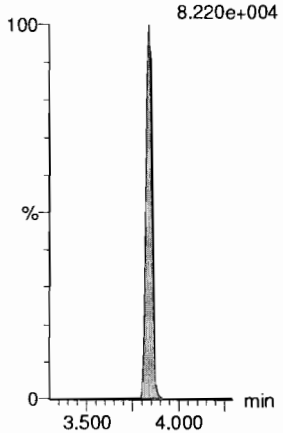
13C4-PFBA



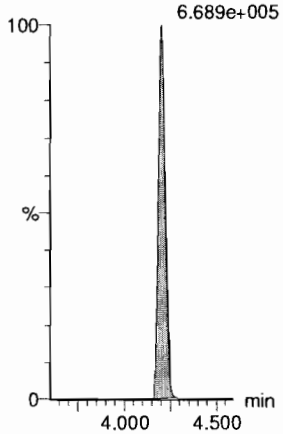
13C5-PFHxA



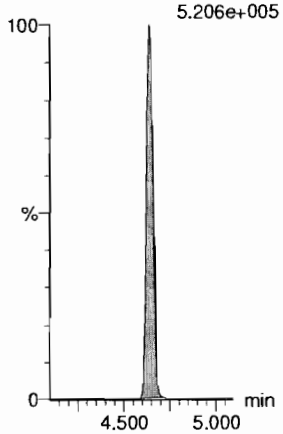
13C3-PFHxS



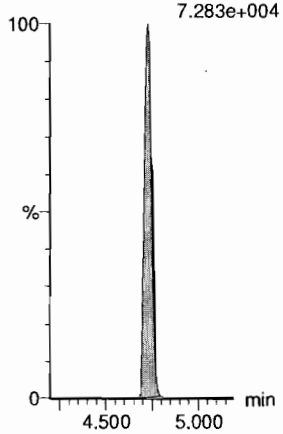
13C8-PFOA



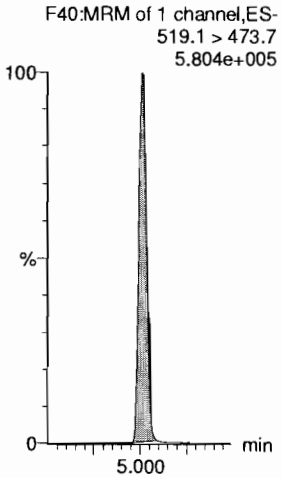
13C9-PFNA



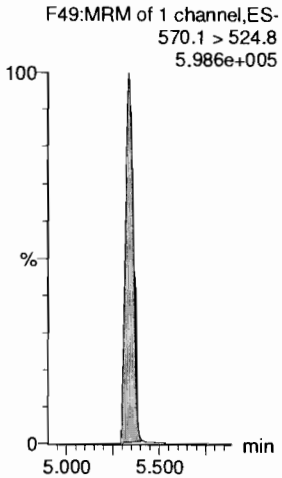
13C4-PFOS



13C6-PFDA



13C7-PFUdA

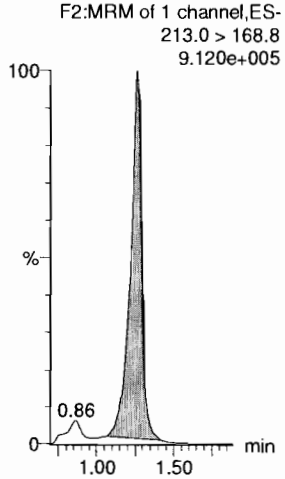


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

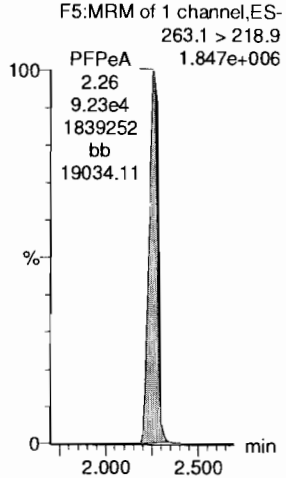
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_9, Date: 19-Feb-2019, Time: 18:04:16, ID: ST190219M2-8 PFC CS5 19B1308, Description: PFC CS5 19B1308

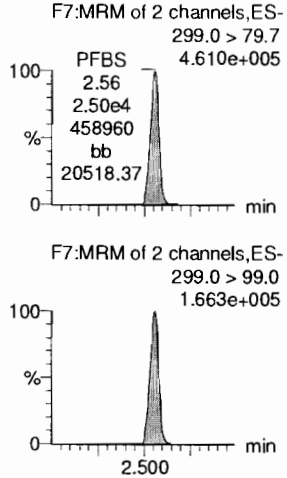
PFBA



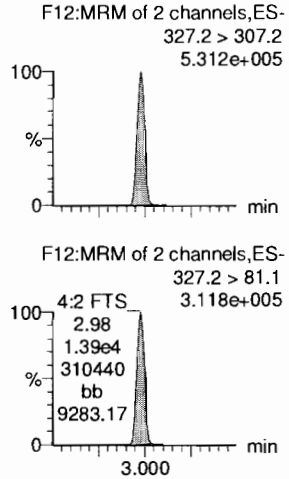
PFPeA



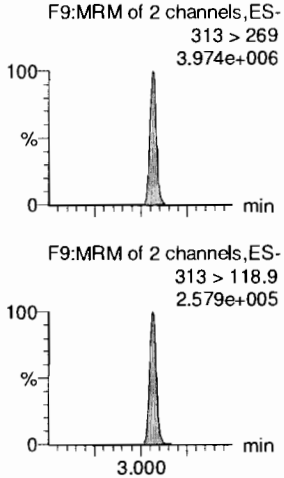
PFBS



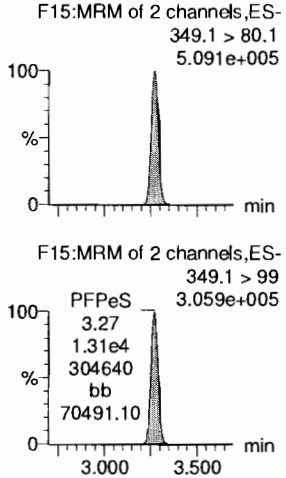
4:2 FTS



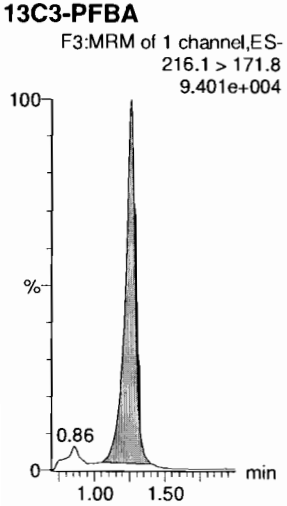
PFHxA



PFPeS



13C3-PFBA



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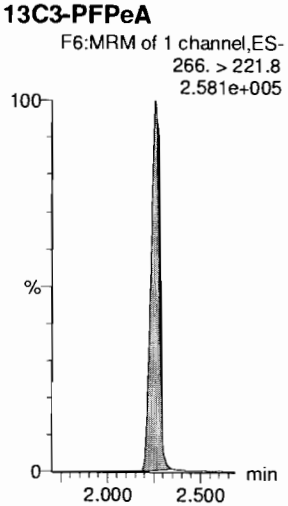
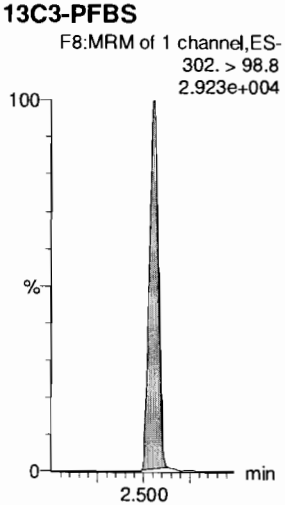
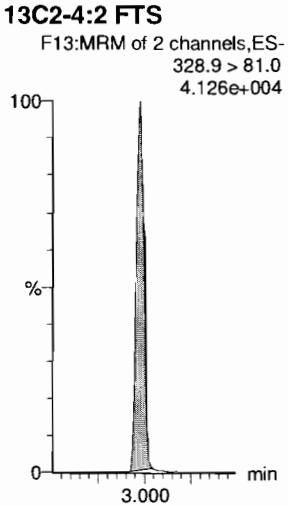


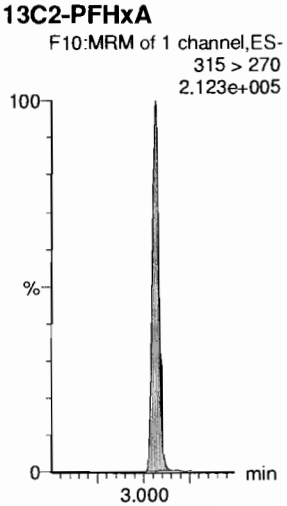
13C3-PFBS



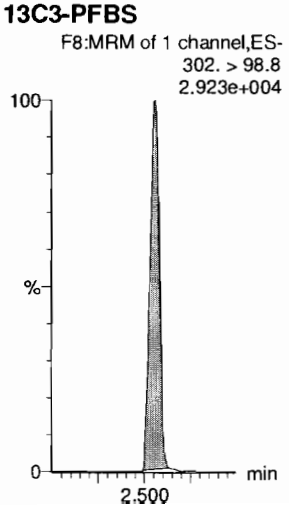
13C2-4:2 FTS



13C2-PFHxA



13C3-PFBS

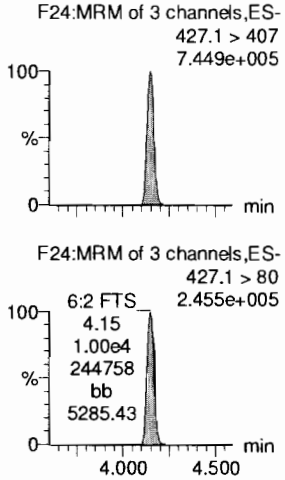


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

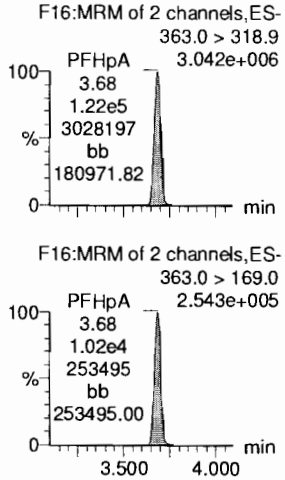
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_9, Date: 19-Feb-2019, Time: 18:04:16, ID: ST190219M2-8 PFC CS5 19B1308, Description: PFC CS5 19B1308

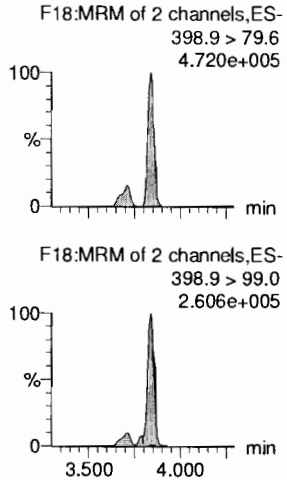
6:2 FTS



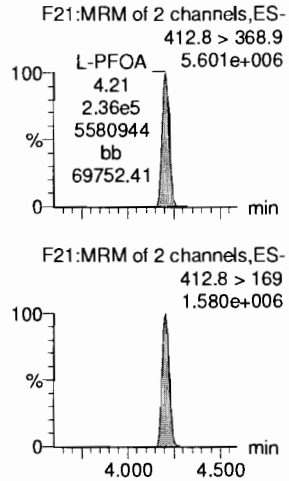
PFHpA



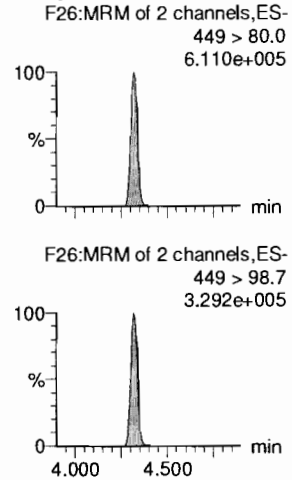
L-PFHxS



L-PFOA



PFHpS



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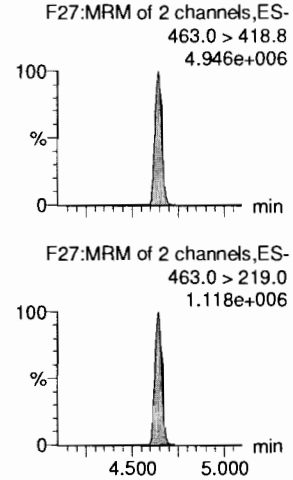
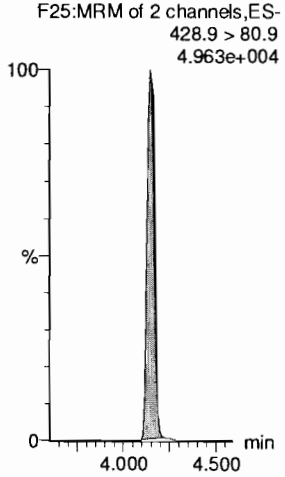
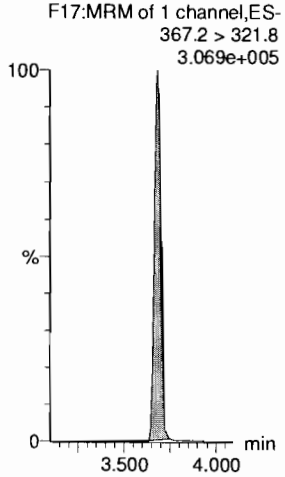


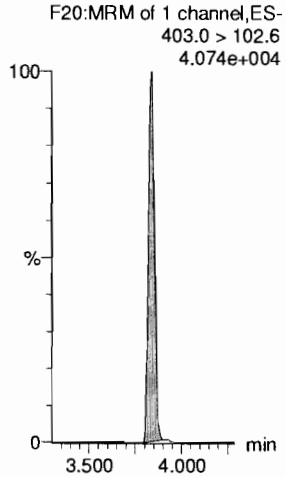
13C2-6:2 FTS



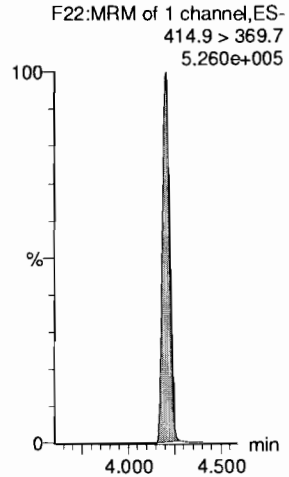
13C4-PFHpA



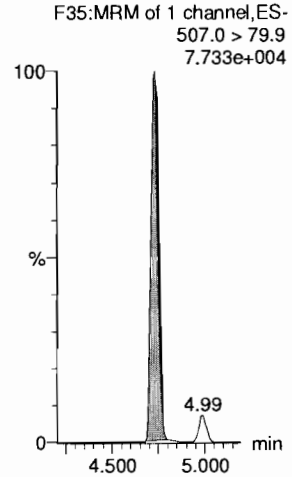
18O2-PFHxS



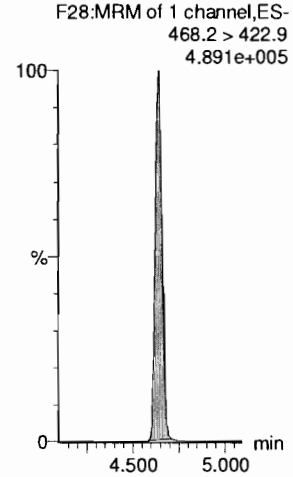
13C2-PFOA



13C8-PFOS



13C5-PFNA

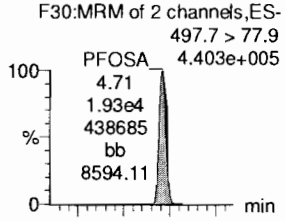


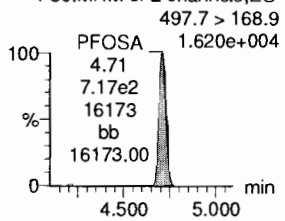
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

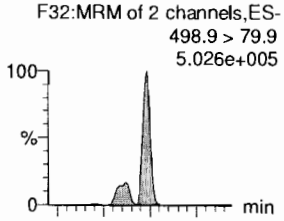
Name: 190219M2_9, Date: 19-Feb-2019, Time: 18:04:16, ID: ST190219M2-8 PFC CS5 19B1308, Description: PFC CS5 19B1308

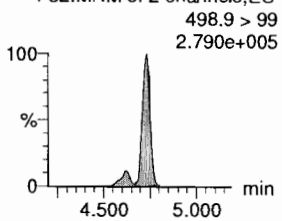
PFOSA



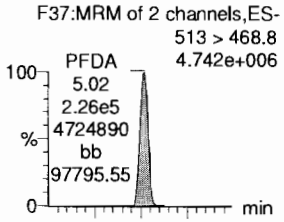


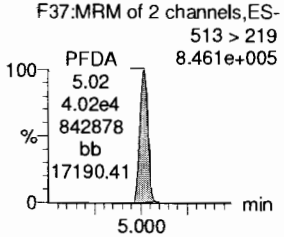
L-PFOS



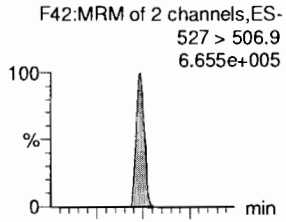


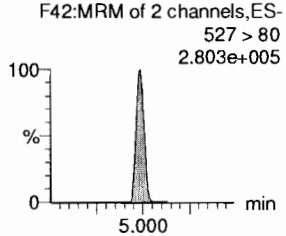
PFDA



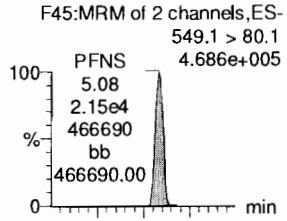


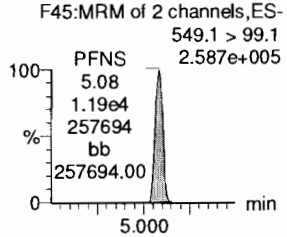
8:2 FTS



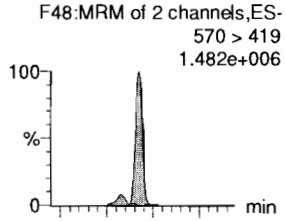


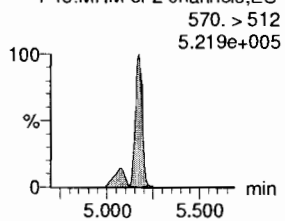
PFNS



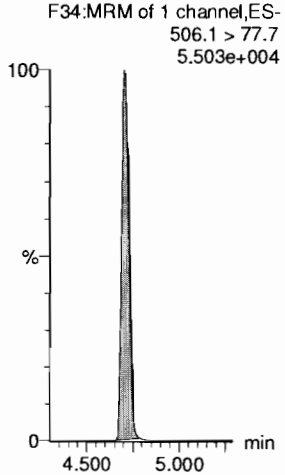


L-MeFOSAA

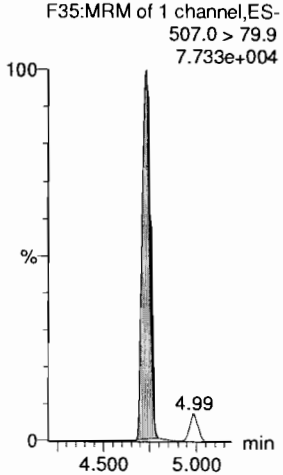




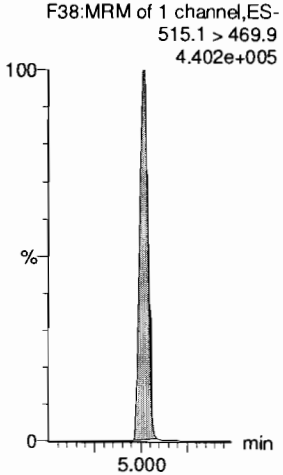
13C8-PFOSA



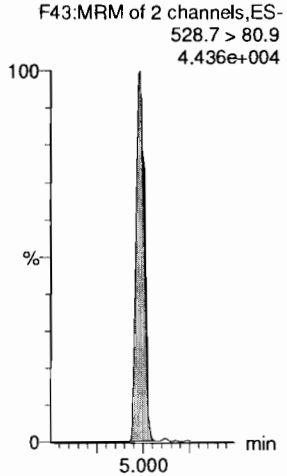
13C8-PFOS



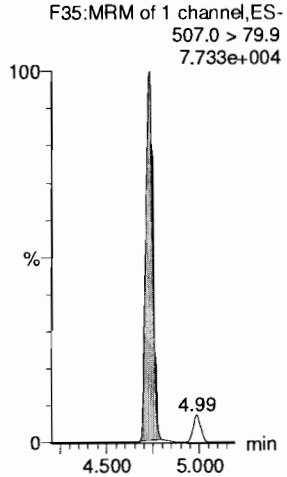
13C2-PFDA



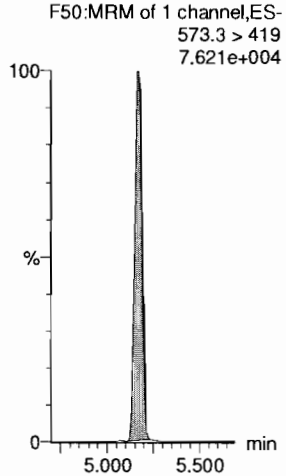
13C2-8:2 FTS



13C8-PFOS



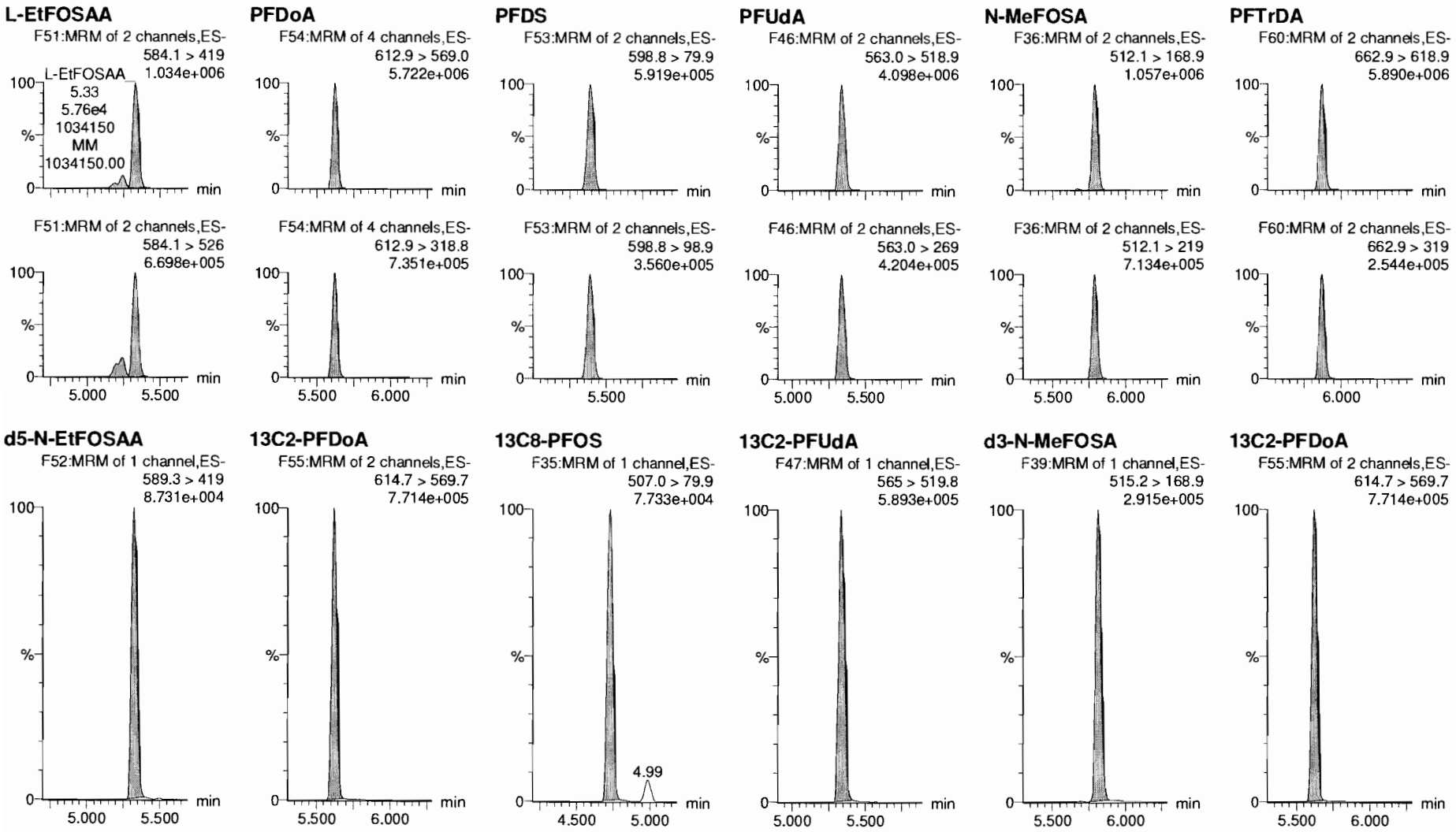
d3-N-MeFOSAA



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_9, Date: 19-Feb-2019, Time: 18:04:16, ID: ST190219M2-8 PFC CS5 19B1308, Description: PFC CS5 19B1308

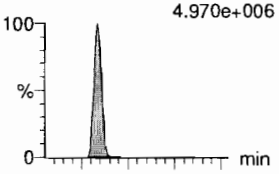


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

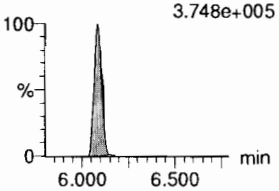
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_9, Date: 19-Feb-2019, Time: 18:04:16, ID: ST190219M2-8 PFC CS5 19B1308, Description: PFC CS5 19B1308

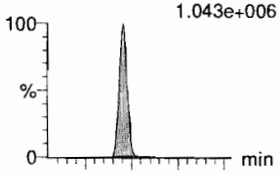
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
4.970e+006



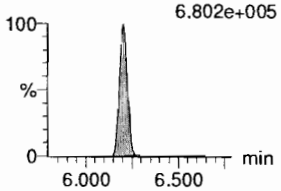
F61:MRM of 2 channels,ES-
713. > 369.0
3.748e+005



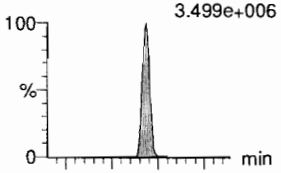
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
1.043e+006



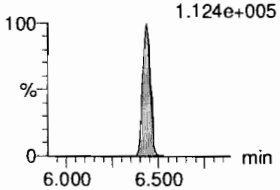
F41:MRM of 2 channels,ES-
526.1 > 219
6.802e+005



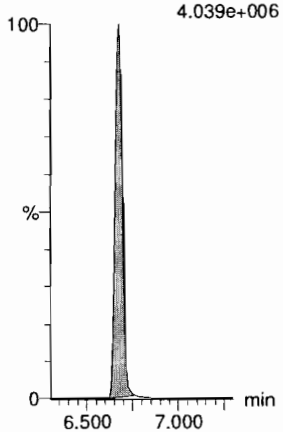
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
3.499e+006



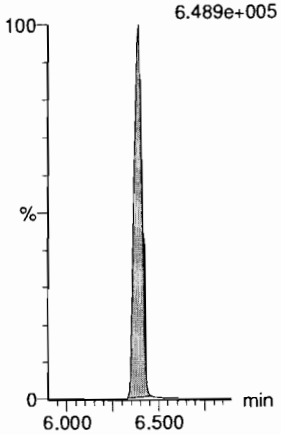
F63:MRM of 2 channels,ES-
813.1 > 219
1.124e+005



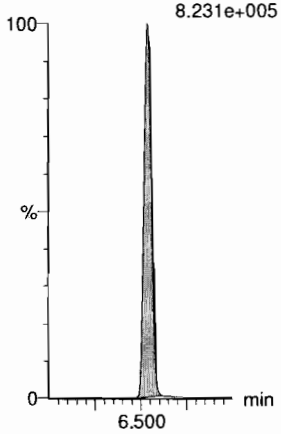
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
4.039e+006



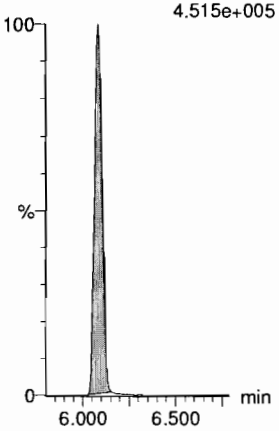
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
6.489e+005



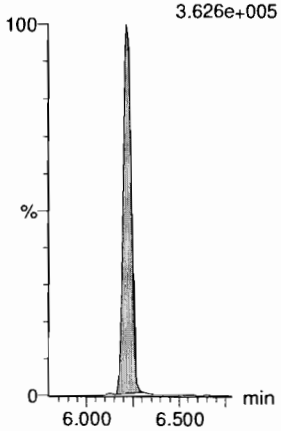
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
8.231e+005



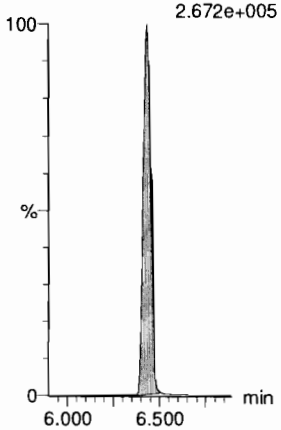
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
4.515e+005



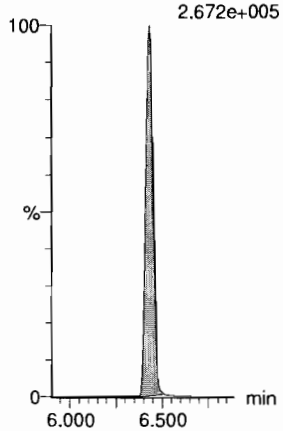
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.626e+005



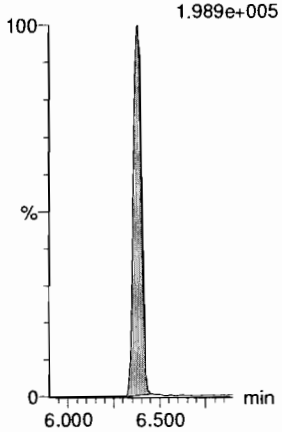
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.672e+005



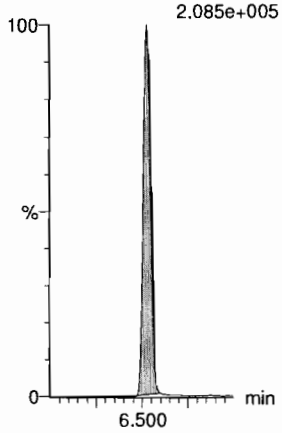
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.672e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
1.989e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
2.085e+005

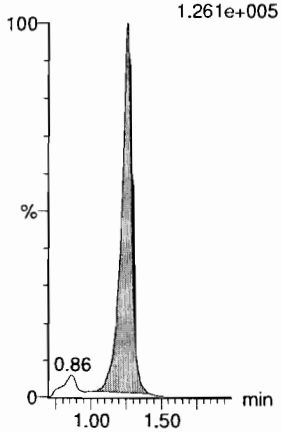


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

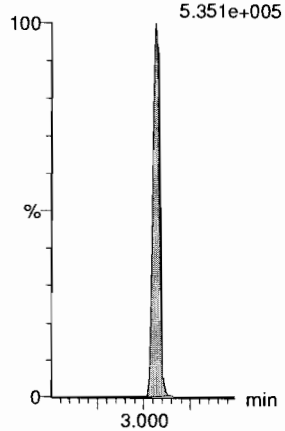
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_9, Date: 19-Feb-2019, Time: 18:04:16, ID: ST190219M2-8 PFC CS5 19B1308, Description: PFC CS5 19B1308

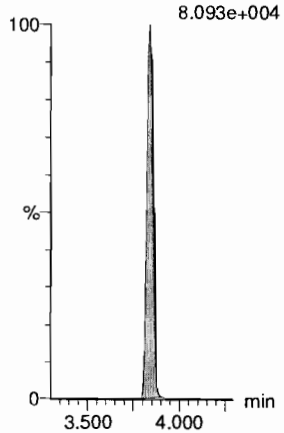
13C4-PFBA



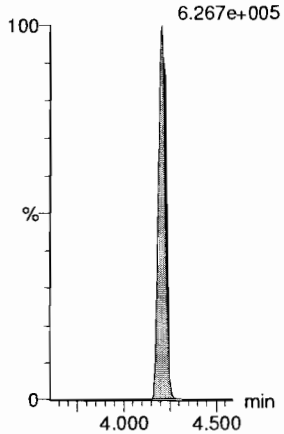
13C5-PFHxA



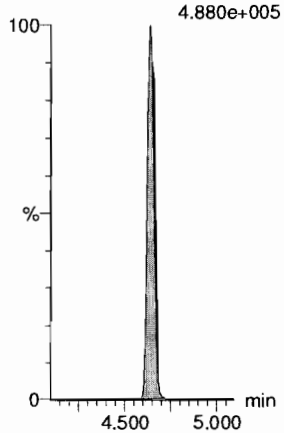
13C3-PFHxS



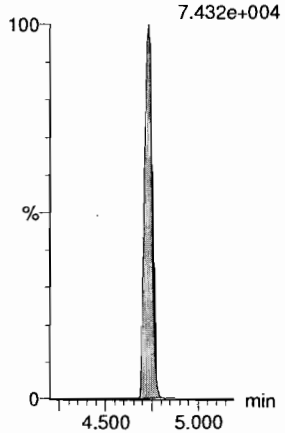
13C8-PFOA



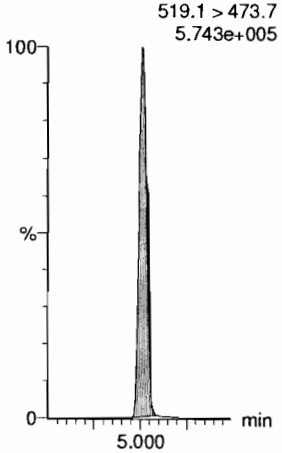
13C9-PFNA



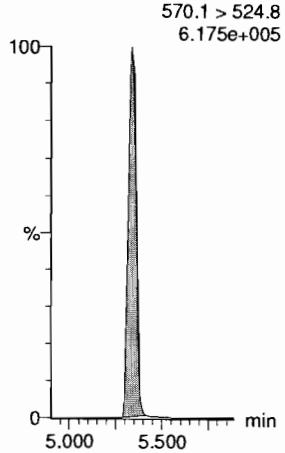
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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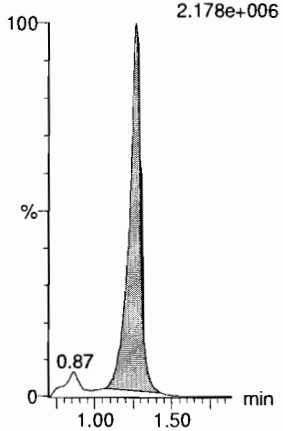
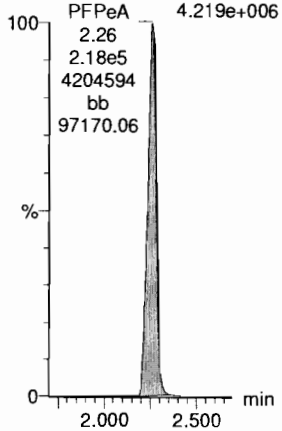
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_10, Date: 19-Feb-2019, Time: 18:14:54, ID: ST190219M2-9 PFC CS6 19B1309, Description: PFC CS6 19B1309

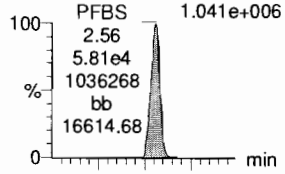
PFBA
F2:MRM of 1 channel,ES-
213.0 > 168.8
2.178e+006



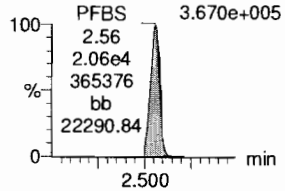
PFPeA
F5:MRM of 1 channel,ES-
263.1 > 218.9
4.219e+006



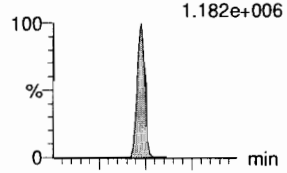
PFBS
F7:MRM of 2 channels,ES-
299.0 > 79.7
1.041e+006



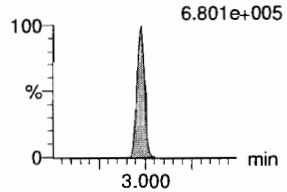
F7:MRM of 2 channels,ES-
299.0 > 99.0
3.670e+005



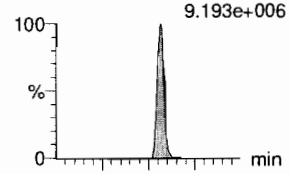
4:2 FTS
F12:MRM of 2 channels,ES-
327.2 > 307.2
1.182e+006



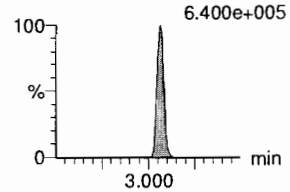
F12:MRM of 2 channels,ES-
327.2 > 81.1
6.801e+005



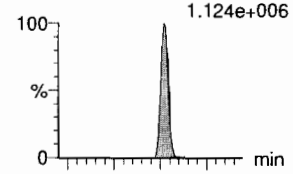
PFHxA
F9:MRM of 2 channels,ES-
313 > 269
9.193e+006



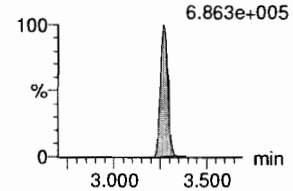
F9:MRM of 2 channels,ES-
313 > 118.9
6.400e+005



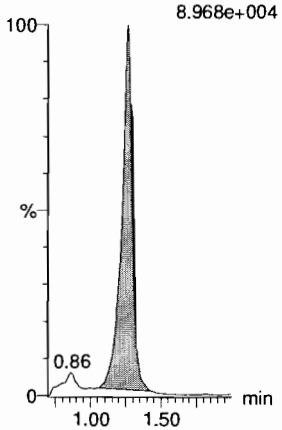
PFPeS
F15:MRM of 2 channels,ES-
349.1 > 80.1
1.124e+006



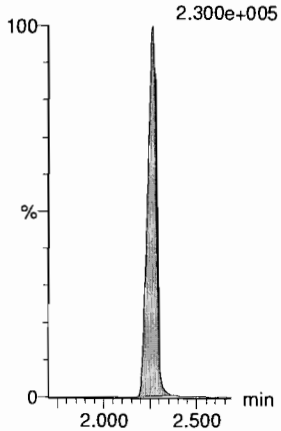
F15:MRM of 2 channels,ES-
349.1 > 99
6.863e+005



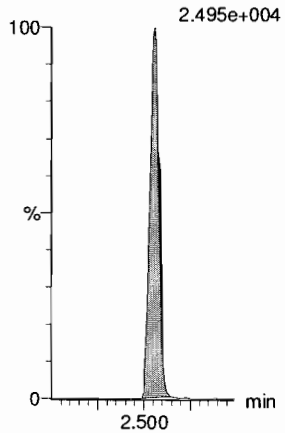
13C3-PFBA
F3:MRM of 1 channel,ES-
216.1 > 171.8
8.968e+004



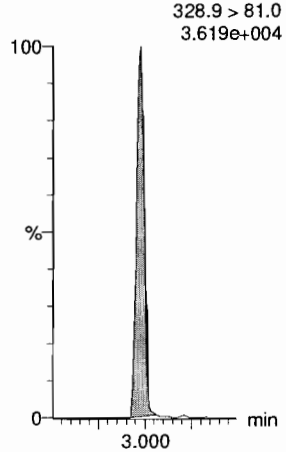
13C3-PFPeA
F6:MRM of 1 channel,ES-
266. > 221.8
2.300e+005



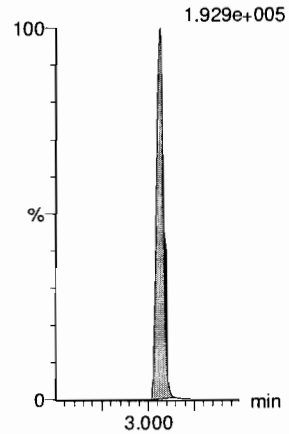
13C3-PFBS
F8:MRM of 1 channel,ES-
302. > 98.8
2.495e+004



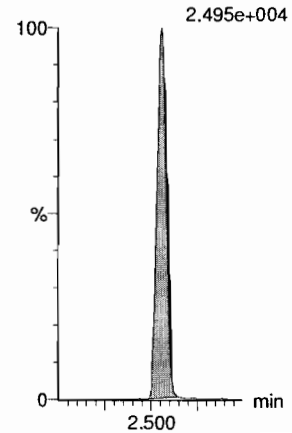
13C2-4:2 FTS
F13:MRM of 2 channels,ES-
328.9 > 81.0
3.619e+004



13C2-PFHxA
F10:MRM of 1 channel,ES-
315 > 270
1.929e+005



13C3-PFBS
F8:MRM of 1 channel,ES-
302. > 98.8
2.495e+004

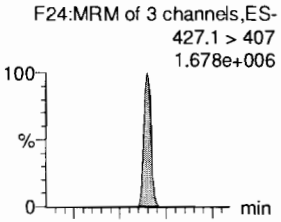


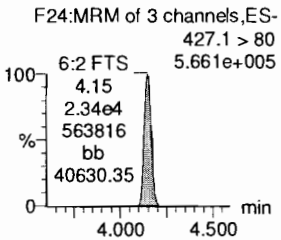
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

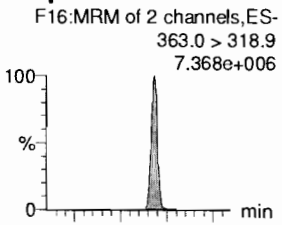
Name: 190219M2_10, Date: 19-Feb-2019, Time: 18:14:54, ID: ST190219M2-9 PFC CS6 19B1309, Description: PFC CS6 19B1309

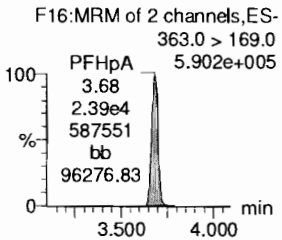
6:2 FTS



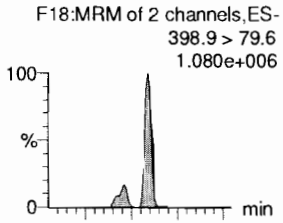


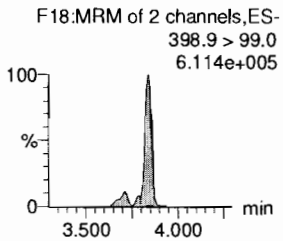
PFHpA



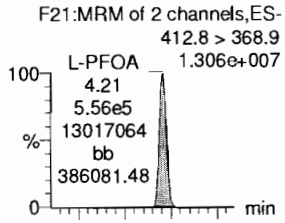


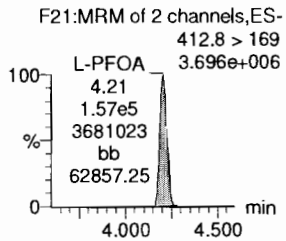
L-PFHxS



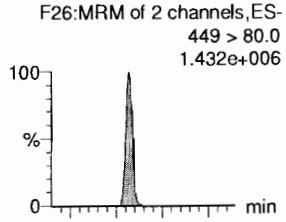


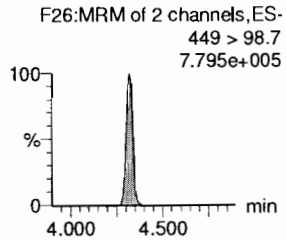
L-PFOA



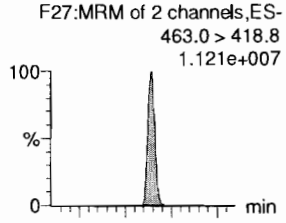


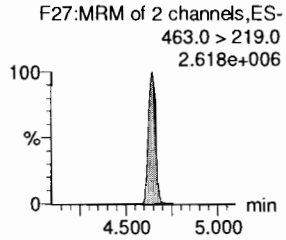
PFHpS



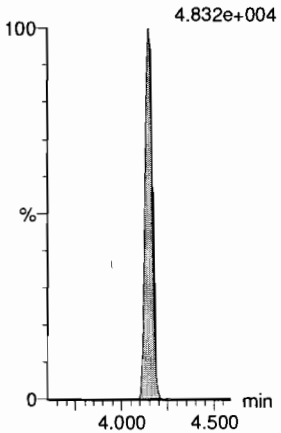


PFNA

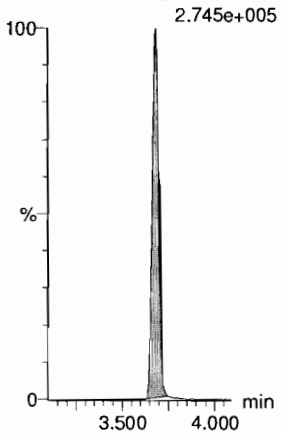




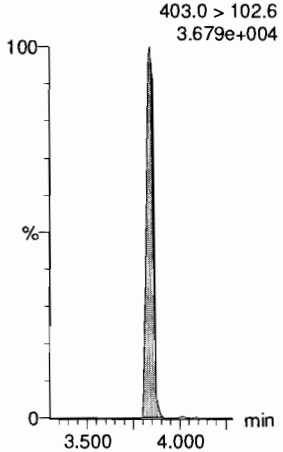
13C2-6:2 FTS



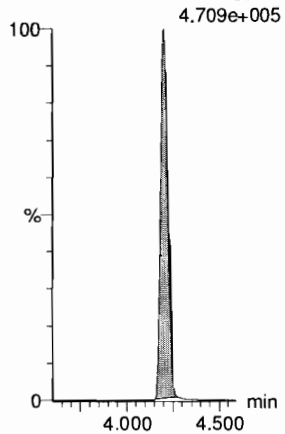
13C4-PFHpA



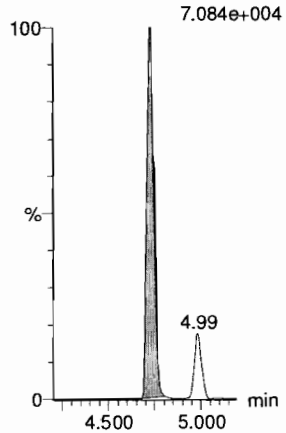
18O2-PFHxS



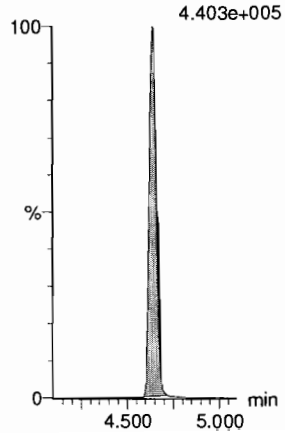
13C2-PFOA



13C8-PFOS



13C5-PFNA

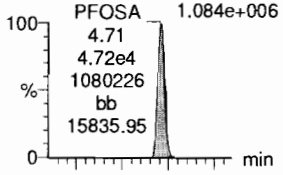


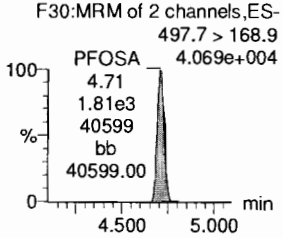
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

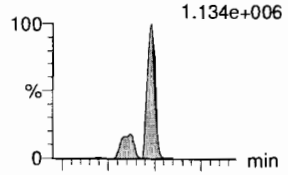
Name: 190219M2_10, Date: 19-Feb-2019, Time: 18:14:54, ID: ST190219M2-9 PFC CS6 19B1309, Description: PFC CS6 19B1309

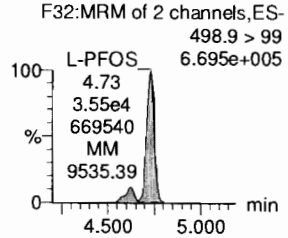
PFOSA



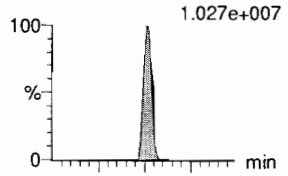


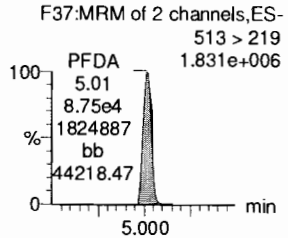
L-PFOS



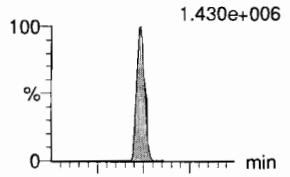


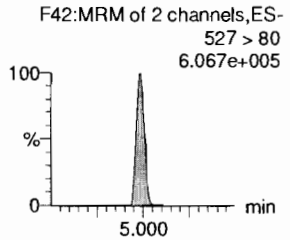
PFDA



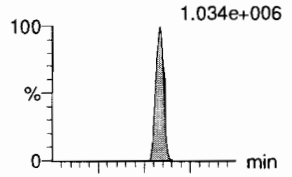


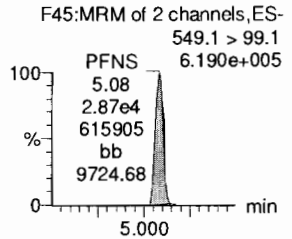
8:2 FTS



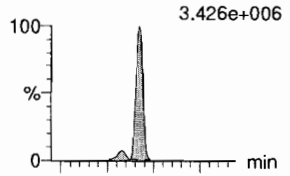


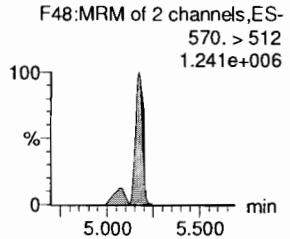
PFNS



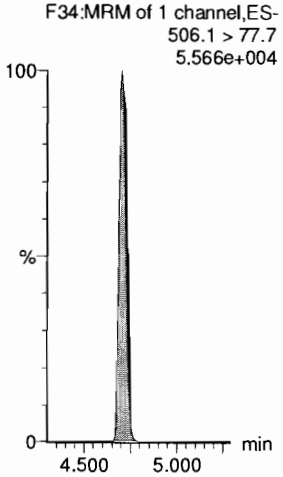


L-MeFOSAA

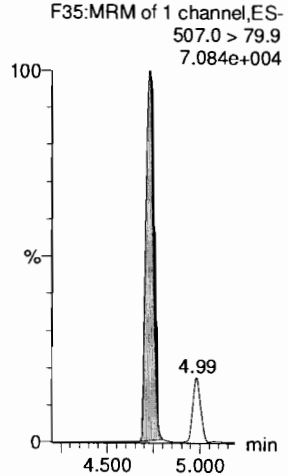




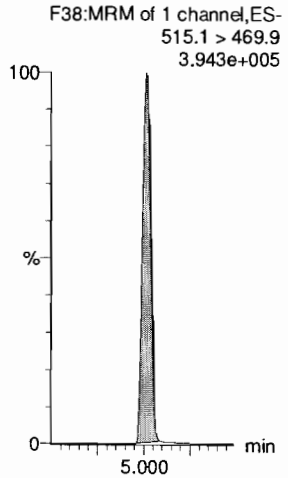
13C8-PFOSA



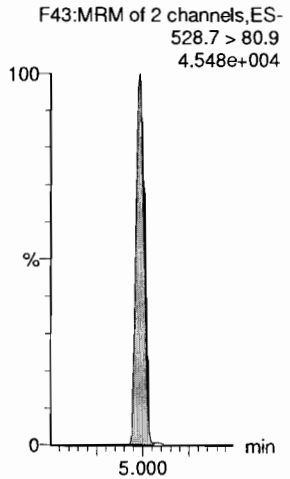
13C8-PFOS



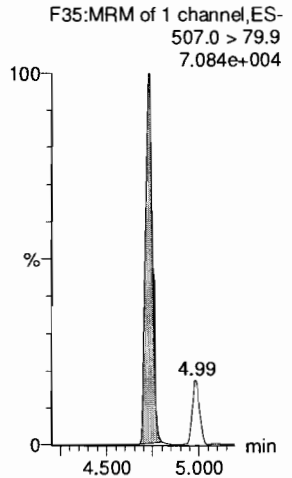
13C2-PFDA



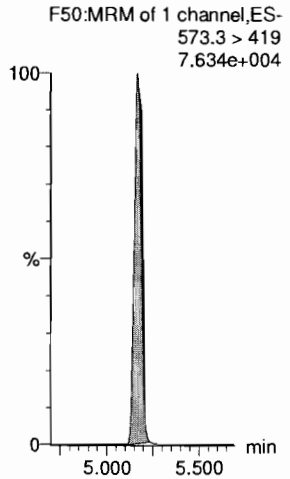
13C2-8:2 FTS



13C8-PFOS



d3-N-MeFOSAA

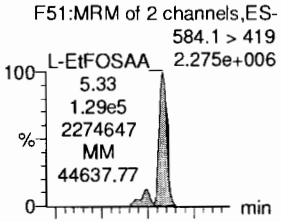


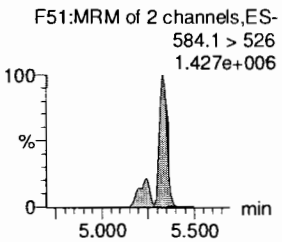
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

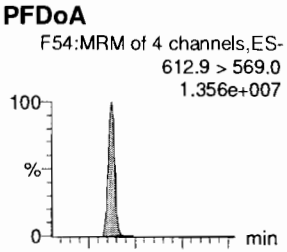
Name: 190219M2_10, Date: 19-Feb-2019, Time: 18:14:54, ID: ST190219M2-9 PFC CS6 19B1309, Description: PFC CS6 19B1309

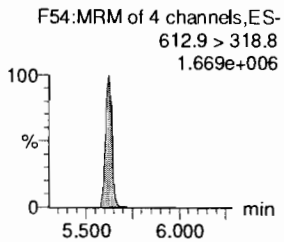
L-EtFOSAA



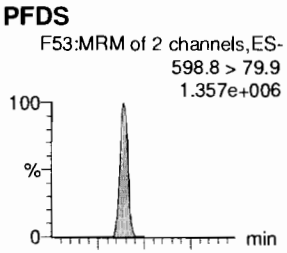


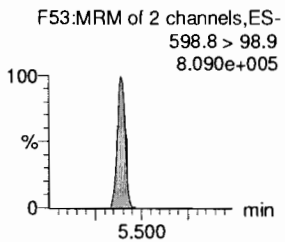
PFDoA



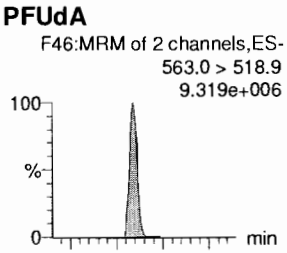


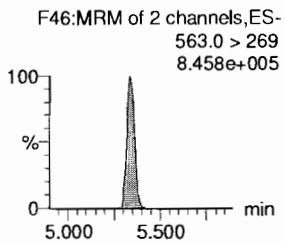
PFDS



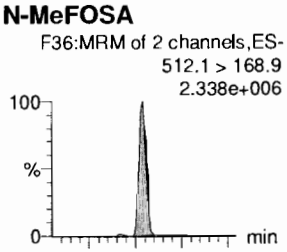


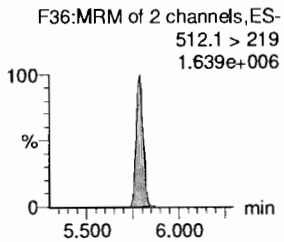
PFUdA



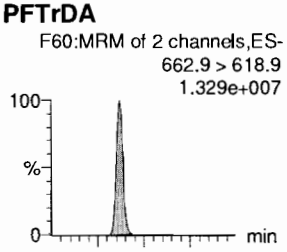


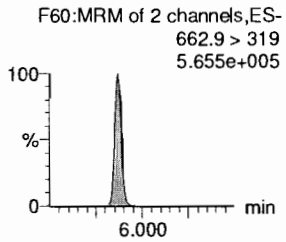
N-MeFOSA



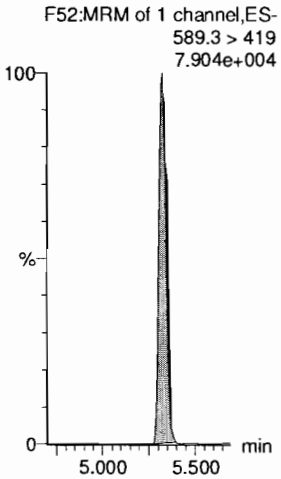


PFTrDA

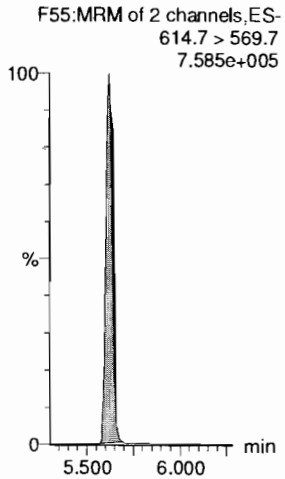




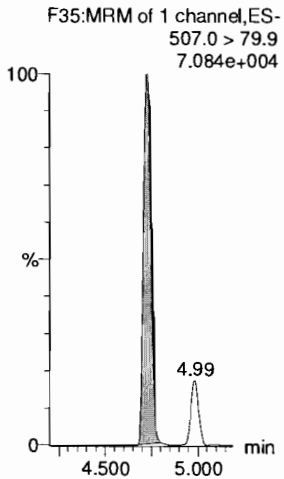
d5-N-EtFOSAA



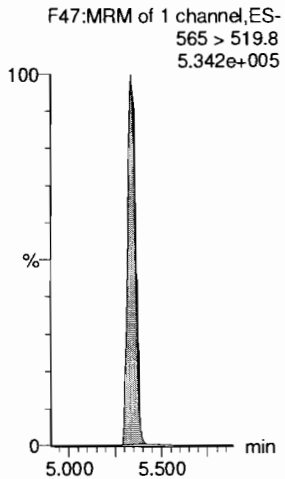
13C2-PFDoA



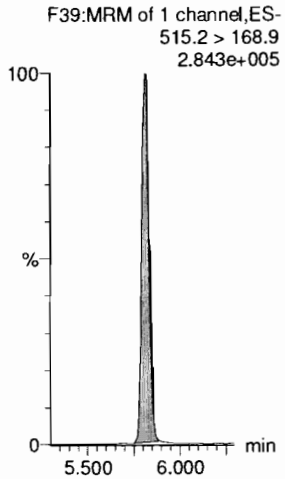
13C8-PFOS



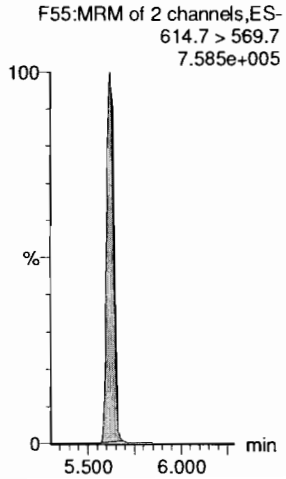
13C2-PFUdA



d3-N-MeFOSA



13C2-PFDoA



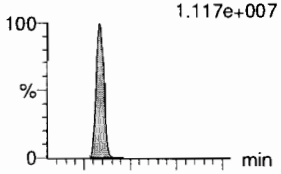
Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

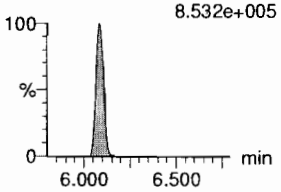
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_10, Date: 19-Feb-2019, Time: 18:14:54, ID: ST190219M2-9 PFC CS6 19B1309, Description: PFC CS6 19B1309

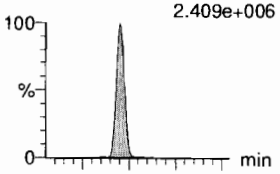
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
1.117e+007



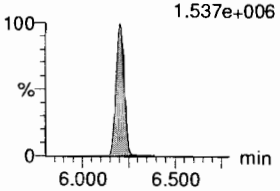
F61:MRM of 2 channels,ES-
713. > 369.0
8.532e+005



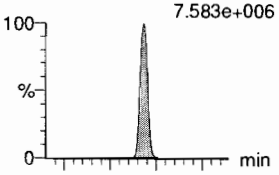
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
2.409e+006



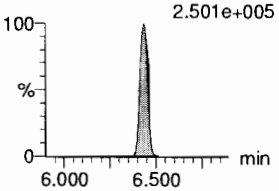
F41:MRM of 2 channels,ES-
526.1 > 219
1.537e+006



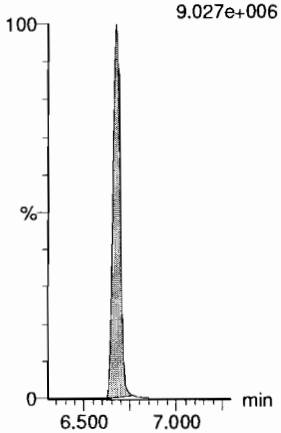
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
7.583e+006



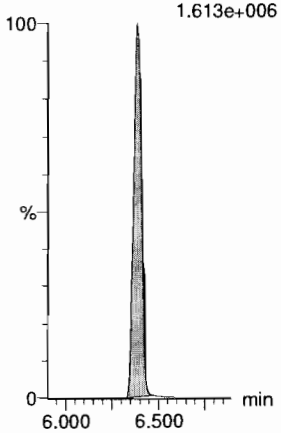
F63:MRM of 2 channels,ES-
813.1 > 219
2.501e+005



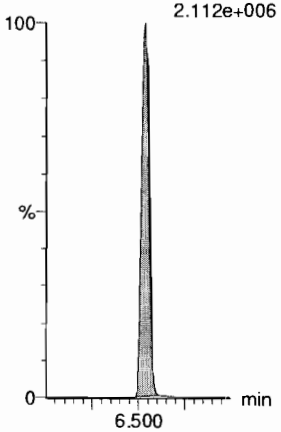
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
9.027e+006



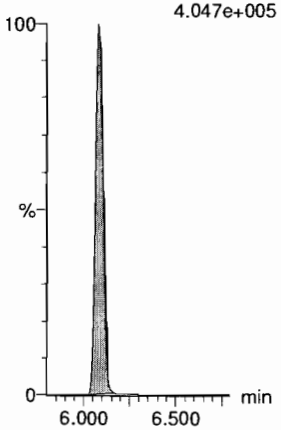
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
1.613e+006



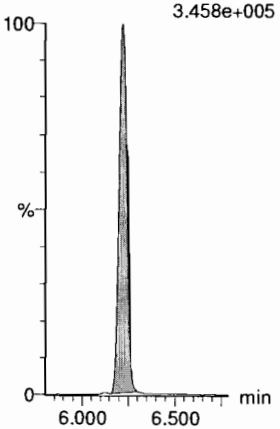
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
2.112e+006



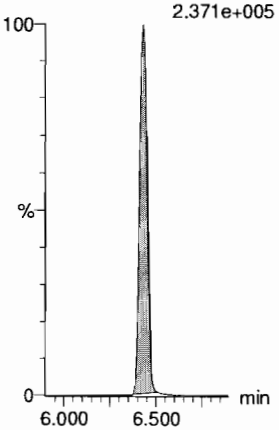
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
4.047e+005



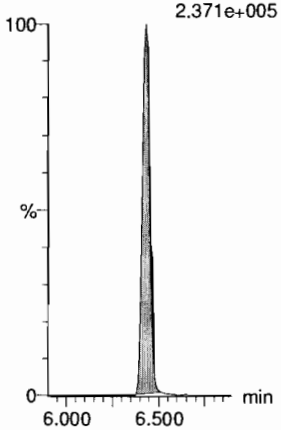
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.458e+005



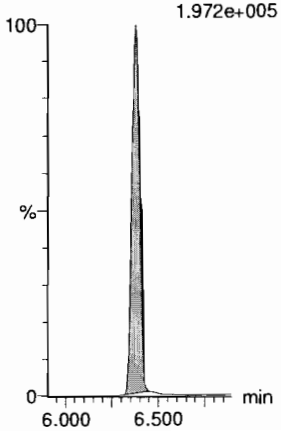
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.371e+005



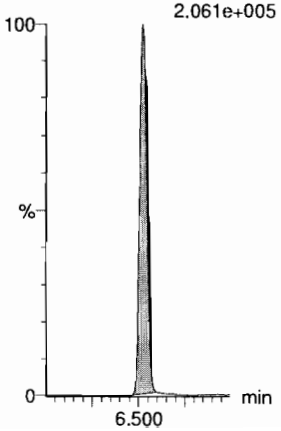
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.371e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
1.972e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
2.061e+005

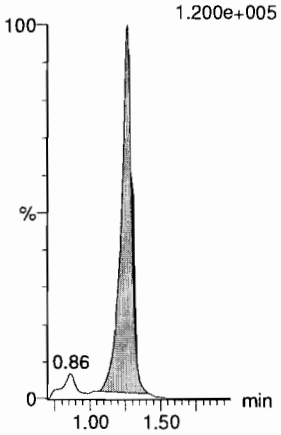


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

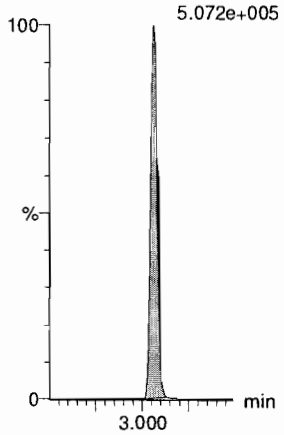
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_10, Date: 19-Feb-2019, Time: 18:14:54, ID: ST190219M2-9 PFC CS6 19B1309, Description: PFC CS6 19B1309

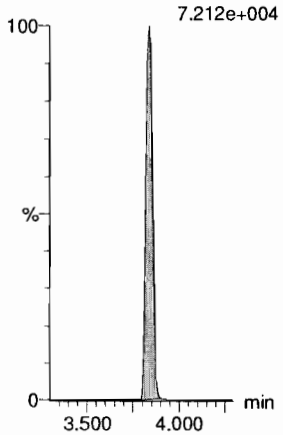
13C4-PFBA



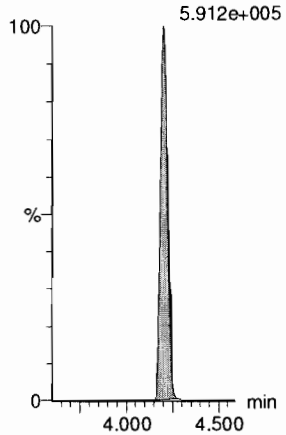
13C5-PFHxA



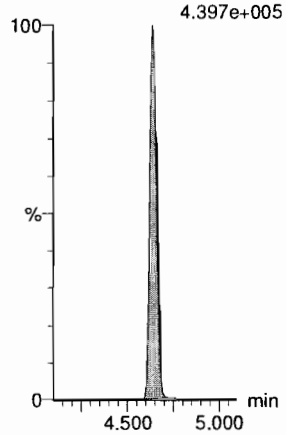
13C3-PFHxS



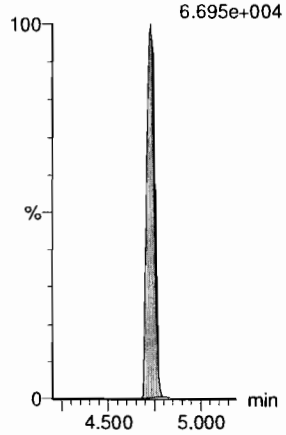
13C8-PFOA



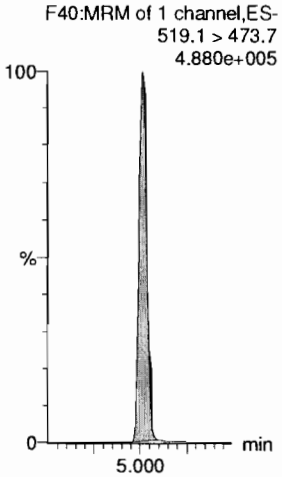
13C9-PFNA



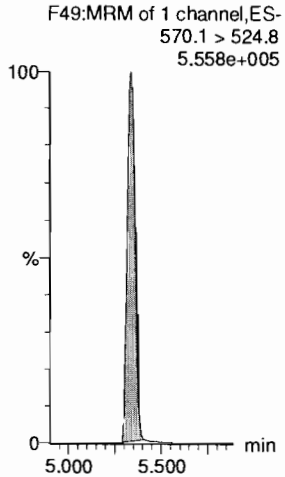
13C4-PFOS



13C6-PFDA



13C7-PFUdA

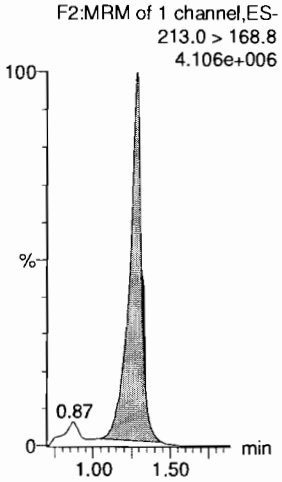


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

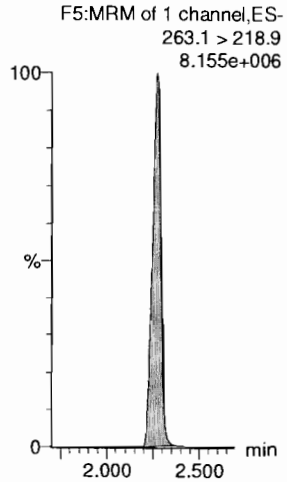
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_11, Date: 19-Feb-2019, Time: 18:26:12, ID: ST190219M2-10 PFC CS7 19B1310, Description: PFC CS7 19B1310

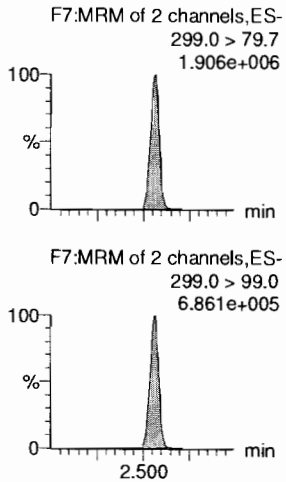
PFBA



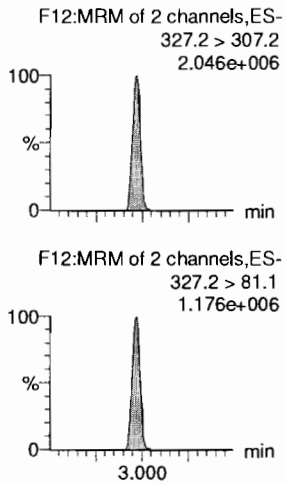
PFPeA



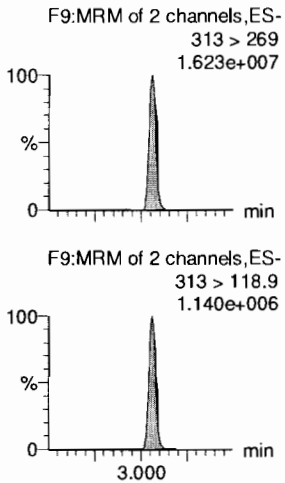
PFBS



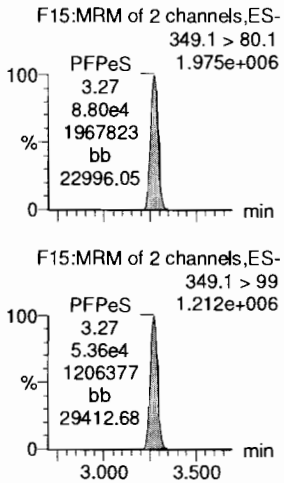
4:2 FTS



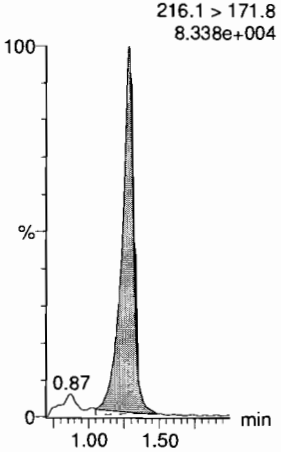
PFHxA



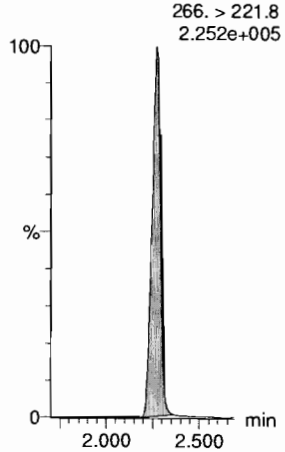
PFPeS



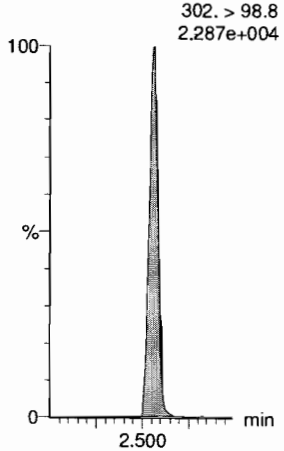
13C3-PFBA



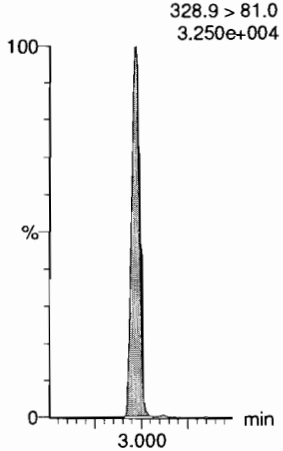
13C3-PFPeA



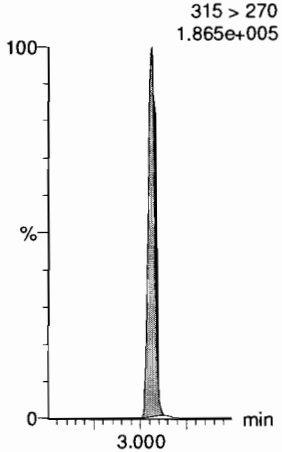
13C3-PFBS



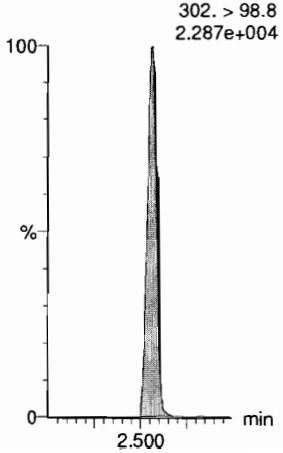
13C2-4:2 FTS



13C2-PFHxA



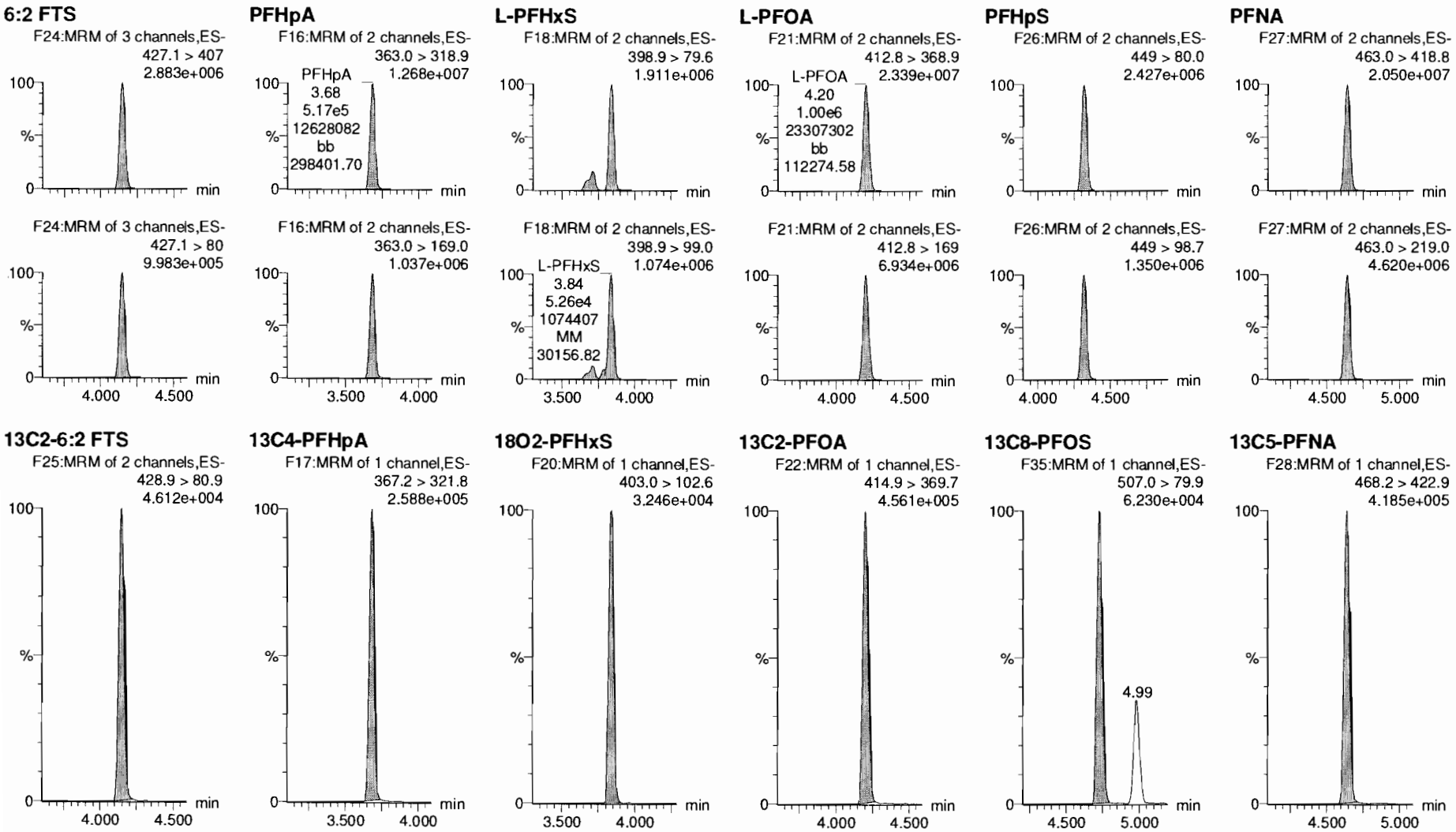
13C3-PFBS



Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_11, Date: 19-Feb-2019, Time: 18:26:12, ID: ST190219M2-10 PFC CS7 19B1310, Description: PFC CS7 19B1310

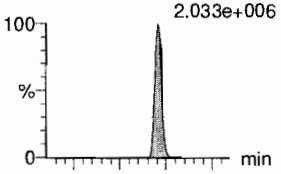


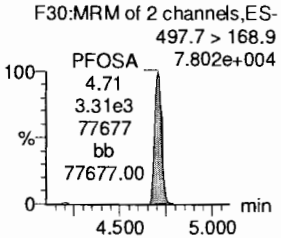
Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

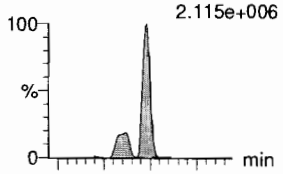
Name: 190219M2_11, Date: 19-Feb-2019, Time: 18:26:12, ID: ST190219M2-10 PFC CS7 19B1310, Description: PFC CS7 19B1310

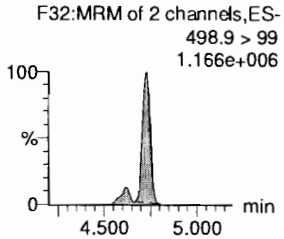
PFOSA



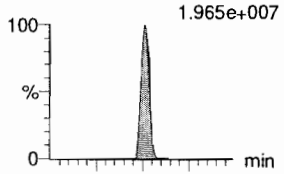


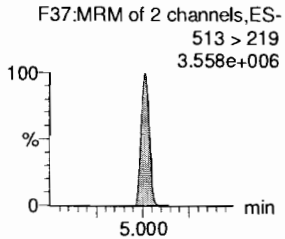
L-PFOS



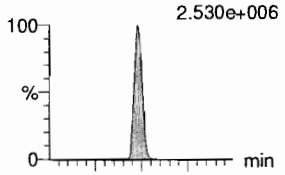


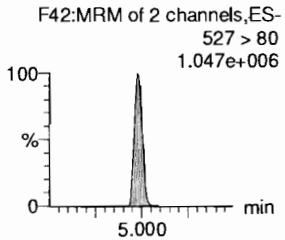
PFDA



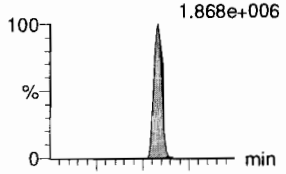


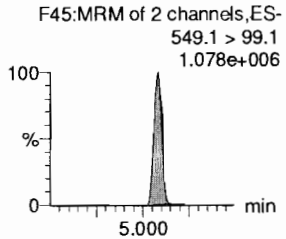
8:2 FTS



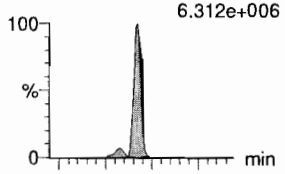


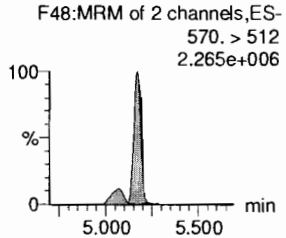
PFNS



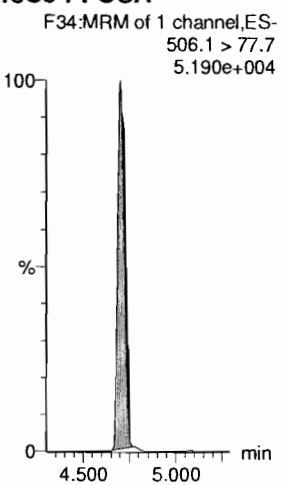


L-MeFOSAA

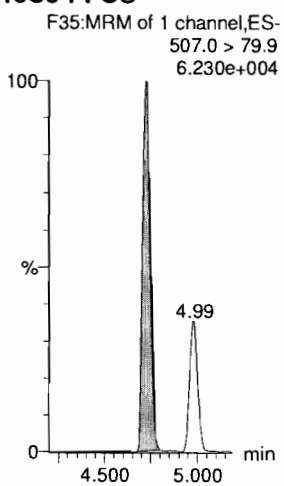




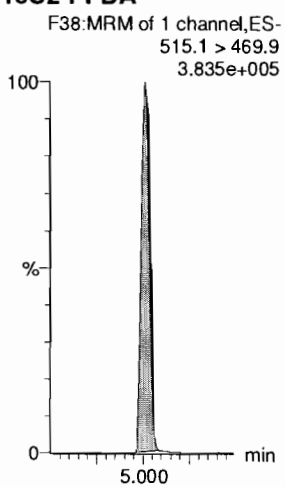
13C8-PFOSA



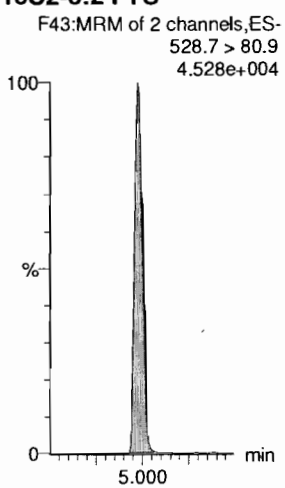
13C8-PFOS



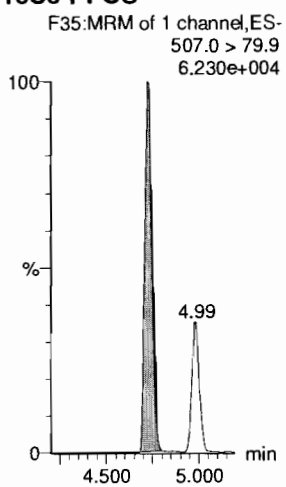
13C2-PFDA



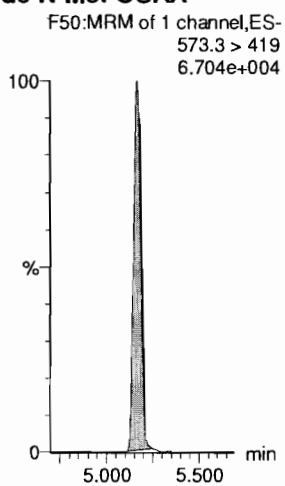
13C2-8:2 FTS



13C8-PFOS



d3-N-MeFOSAA

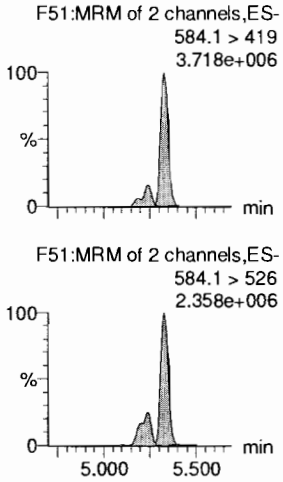


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

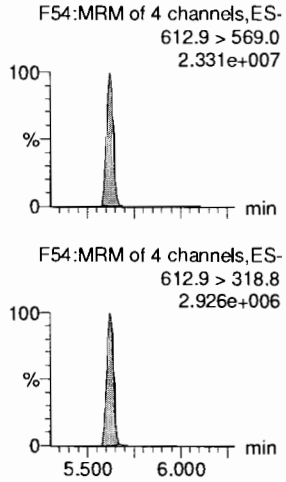
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_11, Date: 19-Feb-2019, Time: 18:26:12, ID: ST190219M2-10 PFC CS7 19B1310, Description: PFC CS7 19B1310

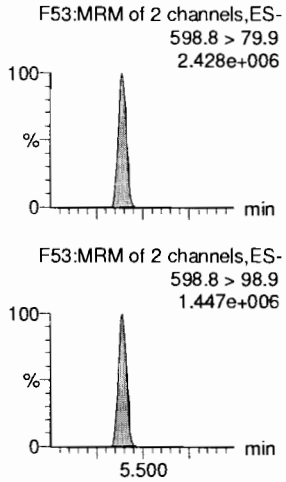
L-EtFOSAA



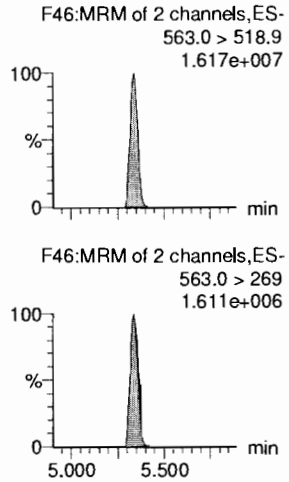
PFDoA



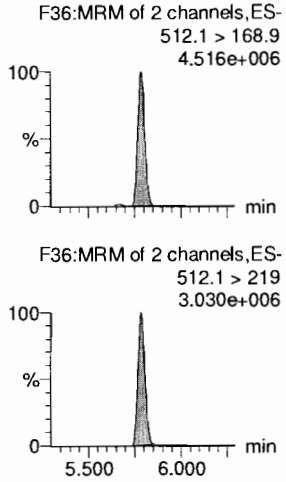
PFDS



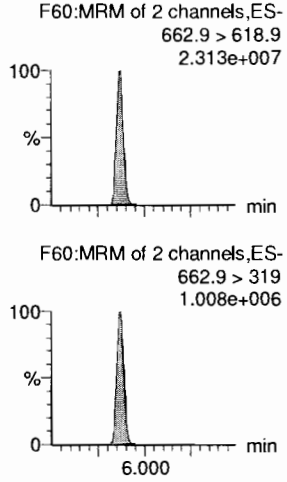
PFUdA



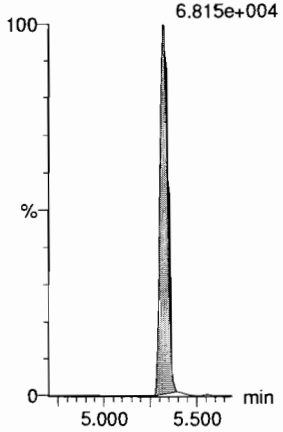
N-MeFOSA



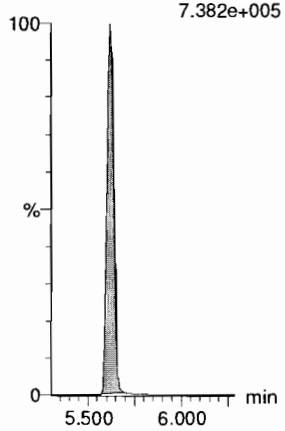
PFTrDA



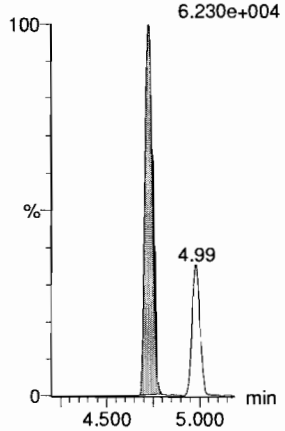
d5-N-EtFOSAA



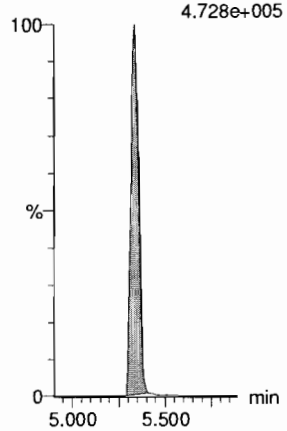
13C2-PFDoA



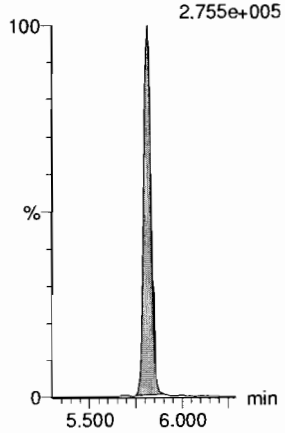
13C8-PFOS



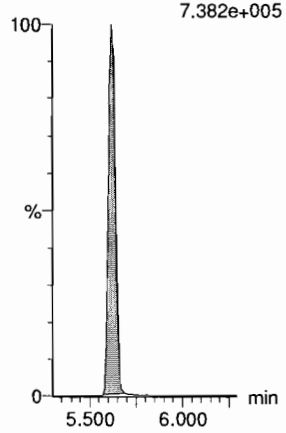
13C2-PFUdA



d3-N-MeFOSA



13C2-PFDoA

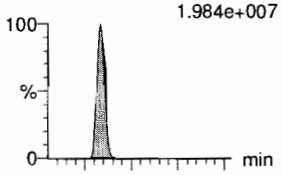


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

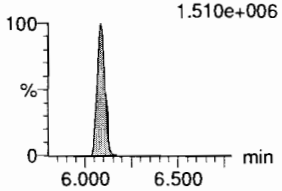
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_11, Date: 19-Feb-2019, Time: 18:26:12, ID: ST190219M2-10 PFC CS7 19B1310, Description: PFC CS7 19B1310

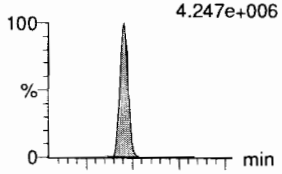
PFTeDA
F61:MRM of 2 channels,ES-
713.0 > 669.0
1.984e+007



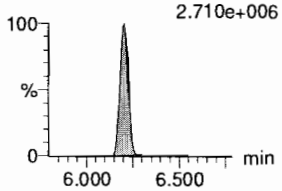
F61:MRM of 2 channels,ES-
713. > 369.0
1.510e+006



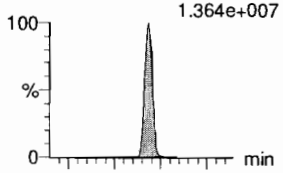
N-EtFOSA
F41:MRM of 2 channels,ES-
526.1 > 168.9
4.247e+006



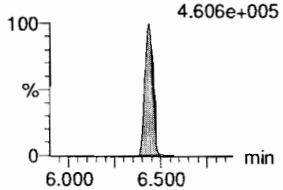
F41:MRM of 2 channels,ES-
526.1 > 219
2.710e+006



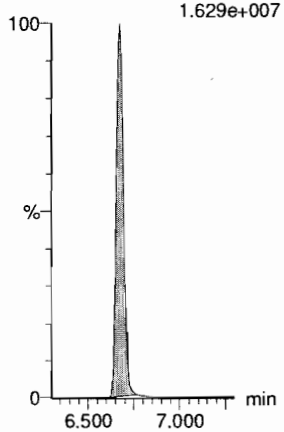
PFHxDA
F63:MRM of 2 channels,ES-
813.1 > 768.6
1.364e+007



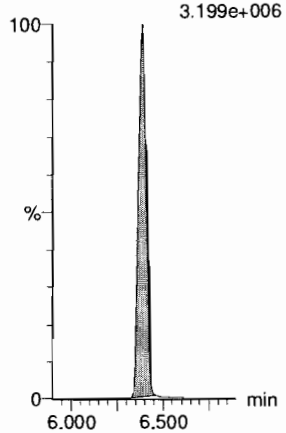
F63:MRM of 2 channels,ES-
813.1 > 219
4.606e+005



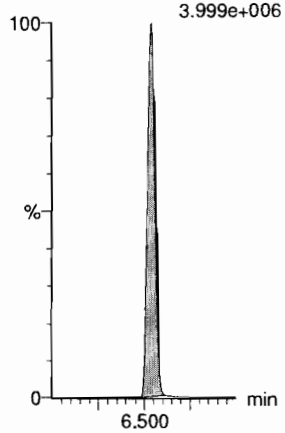
PFODA
F65:MRM of 1 channel,ES-
913.1 > 868.8
1.629e+007



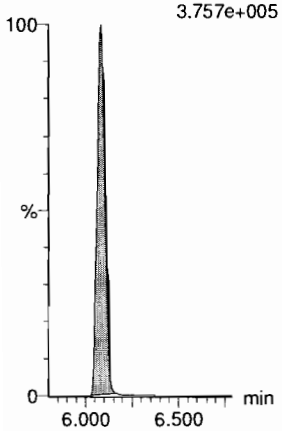
N-MeFOSE
F56:MRM of 1 channel,ES-
616.1 > 58.9
3.199e+006



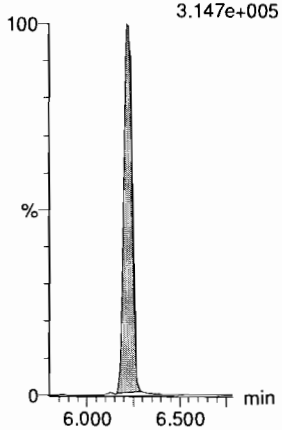
N-EtFOSE
F58:MRM of 1 channel,ES-
630.1 > 58.9
3.999e+006



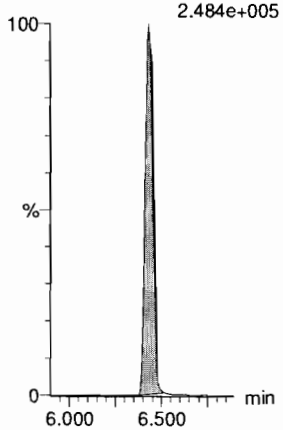
13C2-PFTeDA
F62:MRM of 2 channels,ES-
715.1 > 669.7
3.757e+005



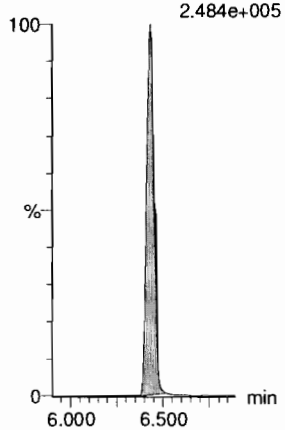
d5-N-ETFOSA
F44:MRM of 1 channel,ES-
531.1 > 168.9
3.147e+005



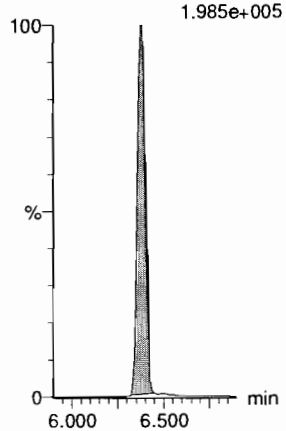
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.484e+005



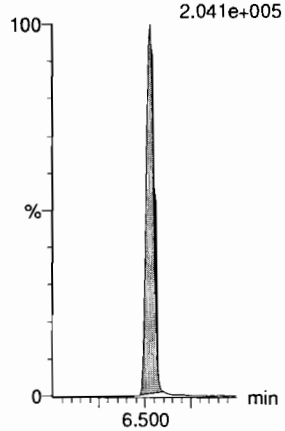
13C2-PFHxDA
F64:MRM of 1 channel,ES-
815 > 769.7
2.484e+005



d7-N-MeFOSE
F57:MRM of 1 channel,ES-
623.1 > 58.9
1.985e+005



d9-N-EtFOSE
F59:MRM of 1 channel,ES-
639.2 > 58.8
2.041e+005

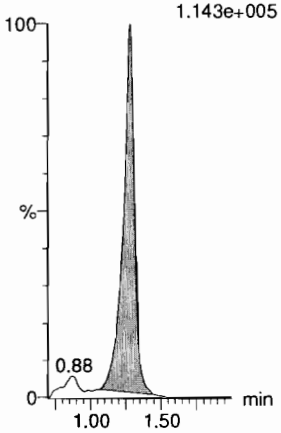


Dataset: F:\Projects\PFAS.PRO\Results\190219M2\190219M2-CRV.qld

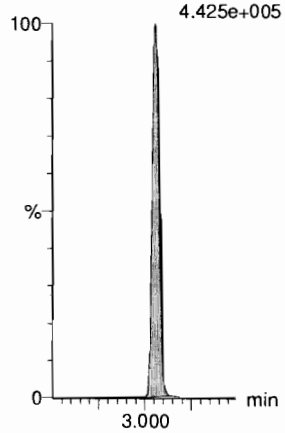
Last Altered: Wednesday, February 20, 2019 09:20:51 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:22:28 Pacific Standard Time

Name: 190219M2_11, Date: 19-Feb-2019, Time: 18:26:12, ID: ST190219M2-10 PFC CS7 19B1310, Description: PFC CS7 19B1310

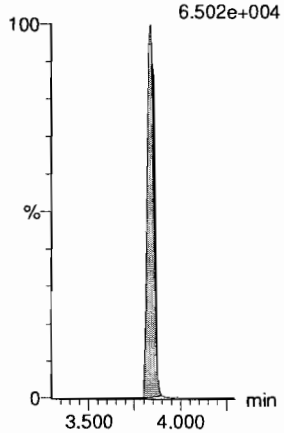
13C4-PFBA



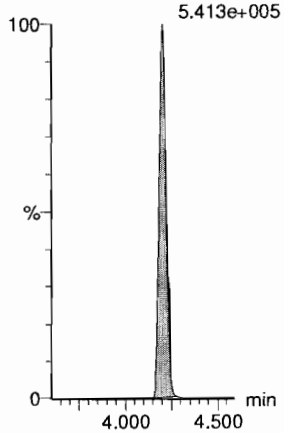
13C5-PFHxA



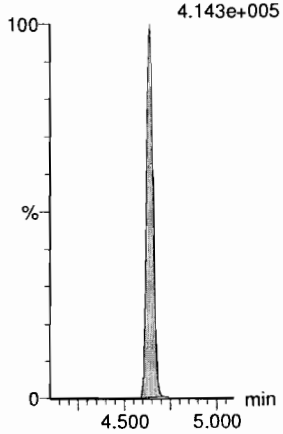
13C3-PFHxS



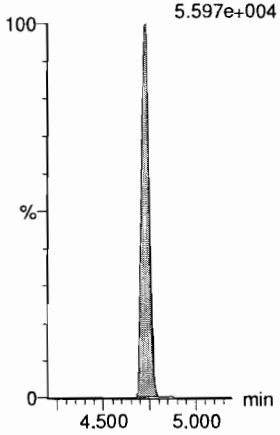
13C8-PFOA



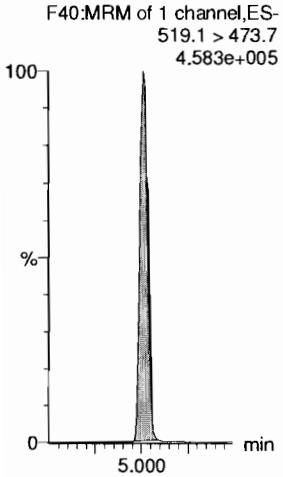
13C9-PFNA



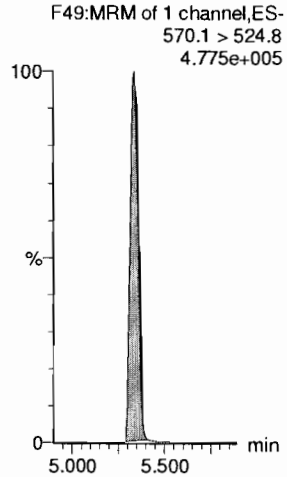
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Dataset: Untitled

Last Altered: Wednesday, February 20, 2019 09:44:58 Pacific Standard Time
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JM 2/20/19

Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

	#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8	8038.127	8048.906	1.00	1.26	12.483	10.4	103.7	NO		
2	2	PFPeA	263.1 > 218.9	9704.421	13299.708	1.00	2.26	9.121	10.0	100.1	NO		
3	3	PFBS	299.0 > 79.7	2481.755	1750.006	1.00	2.56	17.727	8.9	89.3	NO	2.843	NO
4	4	4:2 FTS	327.2>307.2	2530.316	1929.188	1.00	2.98	16.395	9.9	98.6	NO	1.689	NO
5	5	PFHxA	313 > 269	17456.643	8525.534	1.00	3.06	10.238	10.6	106.0	NO	14.739	NO
6	6	PFPeS	349.1>80.1	2345.512	1750.006	1.00	3.27	16.754	9.8	97.5	NO	1.623	NO
7	36	13C3-PFBA	216.1 > 171.8	8048.906	10648.354	1.00	1.27	9.449	12.9	102.9	NO		
8	37	13C3-PFPeA	266. > 221.8	13299.708	22643.480	1.00	2.26	7.342	12.9	102.8	NO		
9	38	13C3-PFBS	302. > 98.8	1750.006	3007.435	1.00	2.56	7.274	13.5	107.9	NO		
10	39	13C2-4:2 FTS	328.9>81.0	1929.188	3007.435	1.00	2.98	8.018	12.8	102.7	NO		
11	40	13C2-PFHxA	315 > 270	8525.534	22643.480	1.00	3.07	4.706	4.9	97.8	NO		
12	38	13C3-PFBS	302. > 98.8	1750.006	3007.435	1.00	2.56	7.274	13.5	107.9	NO		
13	-1												
14	10	6:2 FTS	427.1 > 407	3264.878	2282.740	1.00	4.15	17.878	9.6	95.5	NO	3.242	NO
15	7	PFHpA	363.0 > 318.9	13558.416	13175.450	1.00	3.68	12.863	10.2	101.6	NO	12.086	NO
16	8	L-PFHxS	398.9 > 79.6	2092.941	1518.363	1.00	3.84	17.230	9.5	95.3	NO	1.783	NO
17	11	L-PFOA	412.8 > 368.9	26066.619	23256.227	1.00	4.21	14.011	10.6	106.4	NO	3.356	NO
18	13	PFHpS	449 > 80.0	2611.389	3629.609	1.00	4.32	8.993	9.9	98.9	NO	1.819	NO
19	14	PFNA	463.0 > 418.8	22022.248	21151.371	1.00	4.64	13.015	10.2	102.1	NO	4.311	NO
20	43	13C2-6:2 FTS	428.9>80.9	2282.740	3324.214	1.00	4.15	8.584	12.8	102.0	NO		
21	41	13C4-PFHpA	367.2 > 321.8	13175.450	22643.480	1.00	3.68	7.273	12.9	103.5	NO		
22	42	18O2-PFHxS	403.0 > 102.6	1518.363	3007.435	1.00	3.84	6.311	12.6	100.5	NO		
23	44	13C2-PFOA	414.9 > 369.7	23256.227	28760.359	1.00	4.21	10.108	12.3	98.7	NO		
24	47	13C8-PFOS	507.0 > 79.9	3629.609	3324.214	1.00	4.73	13.648	12.8	102.2	NO		
25	45	13C5-PFNA	468.2 > 422.9	21151.371	21882.094	1.00	4.64	12.083	12.2	97.6	NO		
26	-1												
27	15	PFOSA	497.7 > 77.9	1998.291	2451.058	1.00	4.71	10.191	10.3	102.7	NO	25.176	NO
28	16	L-PFOS	498.9 > 79.9	3027.486	3629.609	1.00	4.73	10.426	9.5	95.2	NO	1.992	NO
29	18	PFDA	513 > 468.8	24494.754	22254.113	1.00	5.02	13.759	10.0	100.5	NO	6.242	NO
30	19	8:2 FTS	527 > 506.9	3783.737	2193.466	1.00	4.99	21.563	11.4	113.9	NO	2.884	NO
31	20	PFNS	549.1 > 80.1	2058.292	3629.609	1.00	5.08	7.089	9.3	93.2	NO	1.569	NO
32	21	L-MeFOSAA	570 > 419	8550.109	3438.934	1.00	5.17	31.078	12.2	121.7	NO	2.632	NO
33	46	13C8-PFOSA	506.1 > 77.7	2451.058	32447.391	1.00	4.71	0.944	11.6	92.5	NO		
34	47	13C8-PFOS	507.0 > 79.9	3629.609	3324.214	1.00	4.73	13.648	12.8	102.2	NO		
35	48	13C2-PFDA	515.1 > 469.9	22254.113	29576.865	1.00	5.02	9.405	12.2	98.0	NO		
36	49	13C2-8:2 FTS	528.7 > 80.9	2193.466	3324.214	1.00	4.99	8.248	11.5	91.6	NO		

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(A) Compds not present in ICV

Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

	#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
37	47	13C8-PFOS	507.0 > 79.9	3629.609	3324.214	1.00	4.73	13.648	12.8	102.2	NO		
38	50	d3-N-MeFOSAA	573.3 > 419	3438.934	32447.391	1.00	5.17	1.325	12.0	96.2	NO		
39	-1												
40	23	L-EtFOSAA	584.1 > 419	7359.012	4671.996	1.00	5.33	19.689	11.5	114.7	NO	1.538	NO
41	27	PFDoA	612.9 > 569.0	25400.484	31142.115	1.00	5.63	10.195	10.5	105.2	NO	7.746	NO
42	26	PFDS	598.8 > 79.9	2965.163	3629.609	1.00	5.39	10.212	10.2	101.5	NO	1.667	NO
43	25	PFUdA	563.0 > 518.9	22024.678	28655.924	1.00	5.34	9.607	10.7	106.6	NO	10.120	NO
44	28	N-MeFOSA	512.1 > 168.9		13475.050	1.00				(A)	NO		
45	29	PFTrDA	662.9 > 618.9	27324.830	31142.115	1.00	5.87	10.968	10.4	104.1	NO	25.180	NO
46	52	d5-N-EtFOSAA	589.3 > 419	4671.996	32447.391	1.00	5.33	1.800	12.4	99.4	NO		
47	53	13C2-PFDoA	614.7 > 569.7	31142.115	29576.865	1.00	5.62	13.162	11.2	89.6	NO		
48	47	13C8-PFOS	507.0 > 79.9	3629.609	3324.214	1.00	4.73	13.648	12.8	102.2	NO		
49	51	13C2-PFUdA	565 > 519.8	28655.924	32447.391	1.00	5.34	11.039	11.7	93.9	NO		
50	54	d3-N-MeFOSA	515.2 > 168.9	13475.050	32447.391	1.00	5.81	5.191	141.5	94.4	NO		
51	53	13C2-PFDoA	614.7 > 569.7	31142.115	29576.865	1.00	5.62	13.162	11.2	89.6	NO		
52	-1												
53	30	PFTeDA	713.0 > 669.0	25406.623	21167.125	1.00	6.09	15.004	10.6	105.9	NO	14.367	NO
54	31	N-EtFOSA	526.1 > 168.9		18147.771	1.00				(A)	NO		
55	32	PFHxDA	813.1 > 768.6		12277.899	1.00					NO		
56	33	PFODA	913.1 > 868.8		12277.899	1.00					NO		
57	34	N-MeFOSE	616.1 > 58.9		9685.357	1.00					NO		
58	35	N-EtFOSE	630.1 > 58.9		9410.910	1.00					NO		
59	55	13C2-PFTeDA	715.1 > 669.7	21167.125	32447.391	1.00	6.09	8.154	11.7	93.7	NO		
60	56	d5-N-ETFOSA	531.1 > 168.9	18147.771	32447.391	1.00	6.22	6.991	138.4	92.3	NO		
61	57	13C2-PFHxDA	815 > 769.7	12277.899	32447.391	1.00	6.43	4.730	4.6	92.8	NO		
62	57	13C2-PFHxDA	815 > 769.7	12277.899	32447.391	1.00	6.43	4.730	4.6	92.8	NO		
63	58	d7-N-MeFOSE	623.1 > 58.9	9685.357	32447.391	1.00	6.38	3.731	139.3	92.9	NO		
64	59	d9-N-EtFOSE	639.2 > 58.8	9410.910	32447.391	1.00	6.53	3.625	141.1	94.1	NO		
65	-1												
66	60	13C4-PFBA	217. > 172	10648.354	10648.354	1.00	1.27	12.500	12.5	100.0	NO		
67	61	13C5-PFHxA	318 > 272.9	22643.480	22643.480	1.00	3.07	12.500	12.5	100.0	NO		
68	62	13C3-PFHxS	401.8 > 79.9	3007.435	3007.435	1.00	3.84	12.500	12.5	100.0	NO		
69	63	13C8-PFOA	420.9 > 376	28760.359	28760.359	1.00	4.21	12.500	12.5	100.0	NO		
70	64	13C9-PFNA	472.2 > 426.9	21882.094	21882.094	1.00	4.64	12.500	12.5	100.0	NO		
71	65	13C4-PFOS	503 > 79.9	3324.214	3324.214	1.00	4.73	12.500	12.5	100.0	NO		
72	66	13C6-PFDA	519.1 > 473.7	29576.865	29576.865	1.00	5.02	12.500	12.5	100.0	NO		

Dataset: Untitled

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Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

	#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
73	67	13C7-PFUdA	570.1 > 524.8	32447.391	32447.391	1.00	5.34	12.500	12.5	100.0	NO		

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Dataset: Untitled

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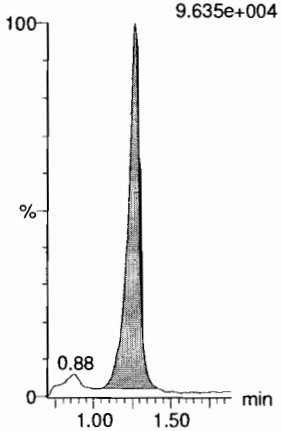
Printed: Wednesday, February 20, 2019 09:45:25 Pacific Standard Time

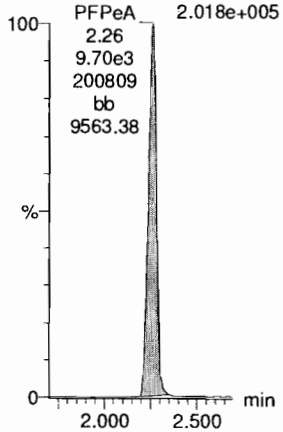
Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_021919B.mdb 20 Feb 2019 09:21:37
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_02-19-19.cdb 20 Feb 2019 09:20:51

Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

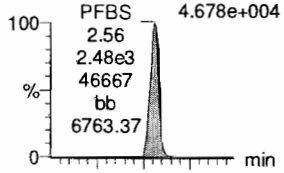
PFBA
F2:MRM of 1 channel,ES-
213.0 > 168.8
9.635e+004



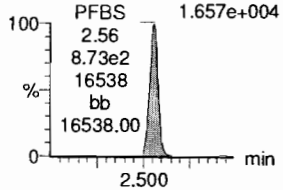
PFPeA
F5:MRM of 1 channel,ES-
263.1 > 218.9
2.018e+005



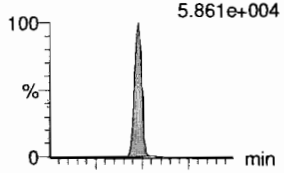
PFBS
F7:MRM of 2 channels,ES-
299.0 > 79.7
4.678e+004



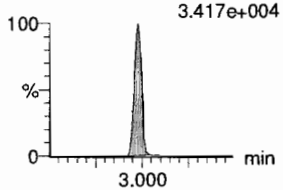
F7:MRM of 2 channels,ES-
299.0 > 99.0
1.657e+004



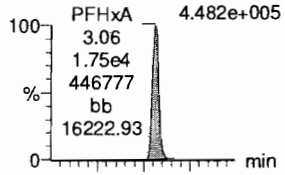
4:2 FTS
F12:MRM of 2 channels,ES-
327.2 > 307.2
5.861e+004



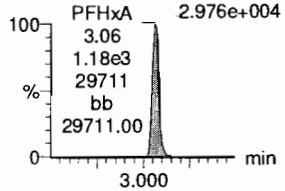
F12:MRM of 2 channels,ES-
327.2 > 81.1
3.417e+004



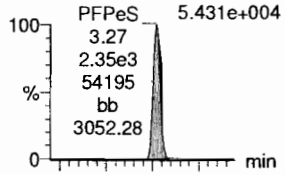
PFHxA
F9:MRM of 2 channels,ES-
313 > 269
4.482e+005



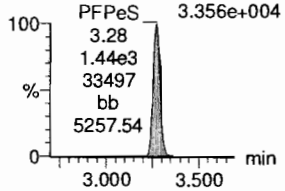
F9:MRM of 2 channels,ES-
313 > 118.9
2.976e+004



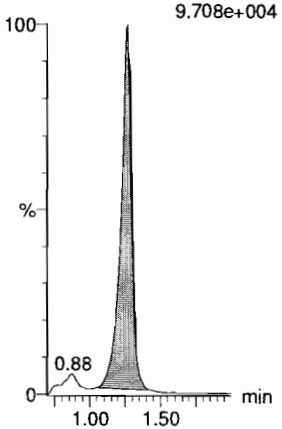
PFPeS
F15:MRM of 2 channels,ES-
349.1 > 80.1
5.431e+004



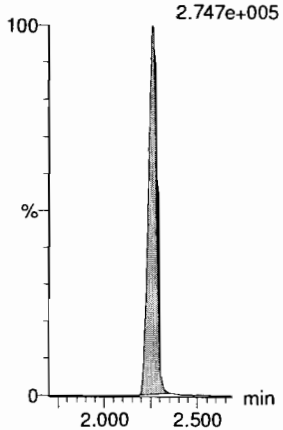
F15:MRM of 2 channels,ES-
349.1 > 99
3.356e+004



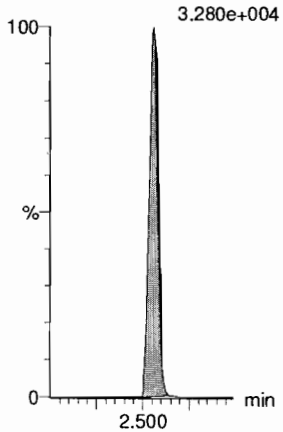
13C3-PFBA
F3:MRM of 1 channel,ES-
216.1 > 171.8
9.708e+004



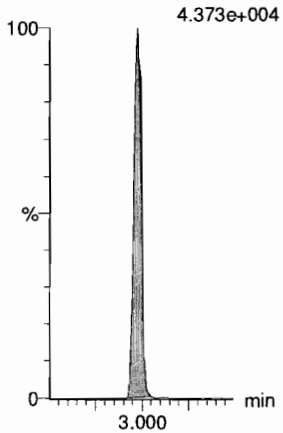
13C3-PFPeA
F6:MRM of 1 channel,ES-
266. > 221.8
2.747e+005



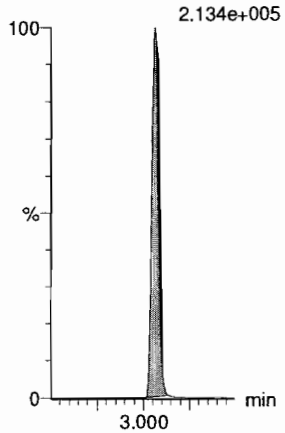
13C3-PFBS
F8:MRM of 1 channel,ES-
302. > 98.8
3.280e+004



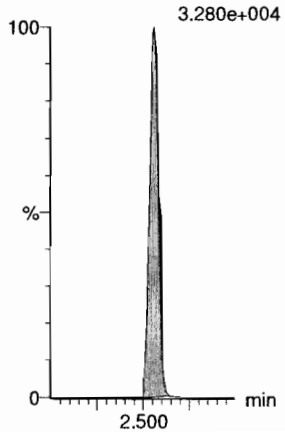
13C2-4:2 FTS
F13:MRM of 2 channels,ES-
328.9 > 81.0
4.373e+004



13C2-PFHxA
F10:MRM of 1 channel,ES-
315 > 270
2.134e+005



13C3-PFBS
F8:MRM of 1 channel,ES-
302. > 98.8
3.280e+004



Vista Analytical Laboratory

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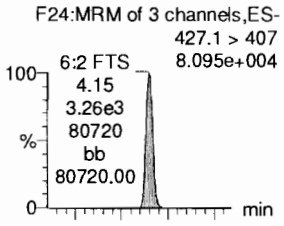
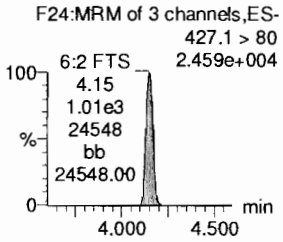
Last Altered: Wednesday, February 20, 2019 09:44:58 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:45:25 Pacific Standard Time

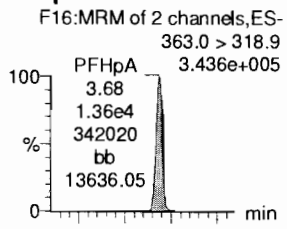
Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

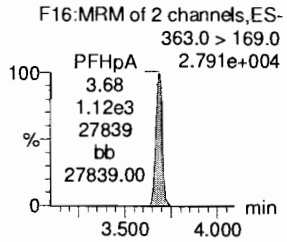
6:2 FTS





PFHpA





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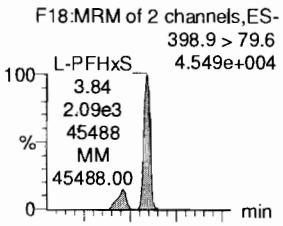

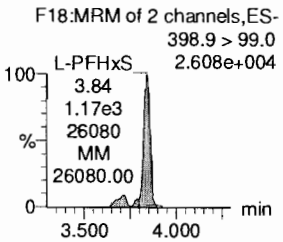

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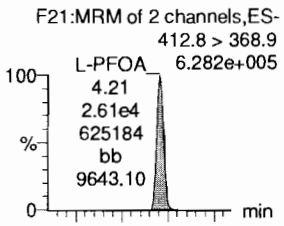

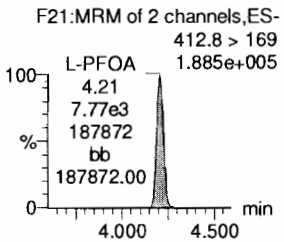

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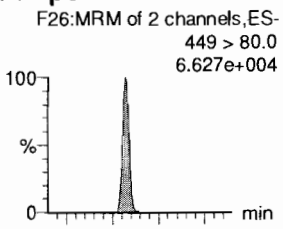

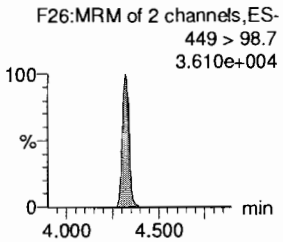

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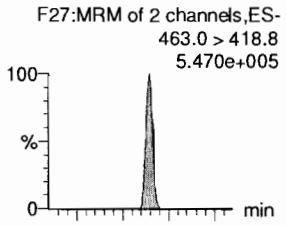
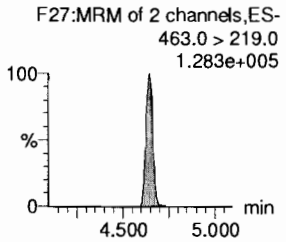
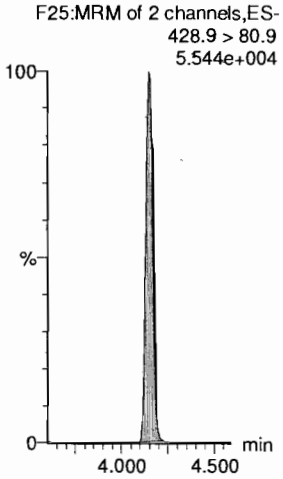
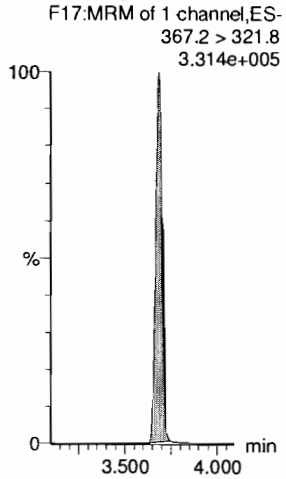




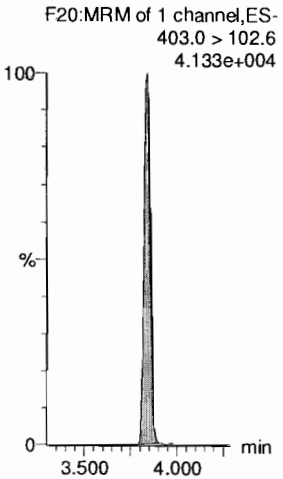
13C2-6:2 FTS



13C4-PFHpA



18O2-PFHxS



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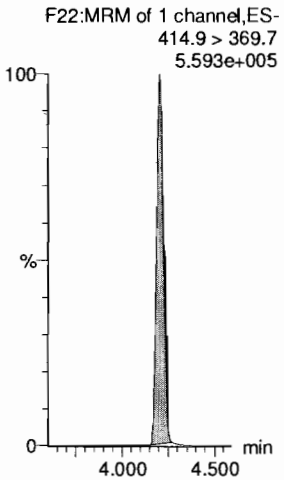
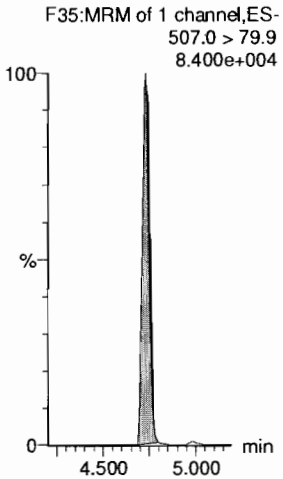


13C8-PFOS



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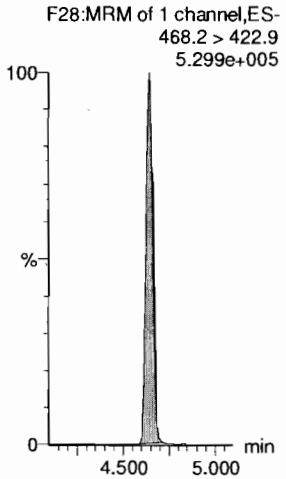

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, February 20, 2019 09:44:58 Pacific Standard Time
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Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

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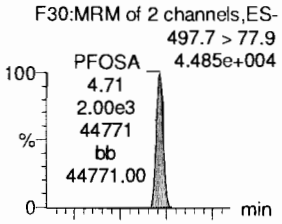

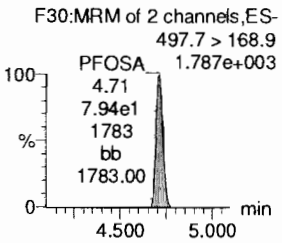

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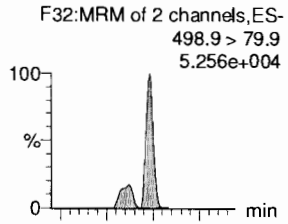

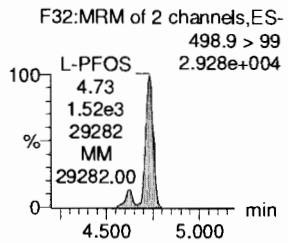

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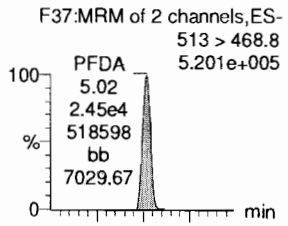
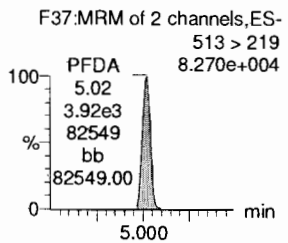
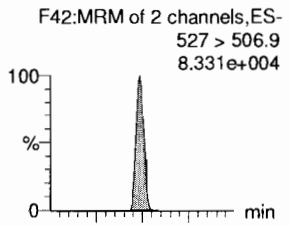
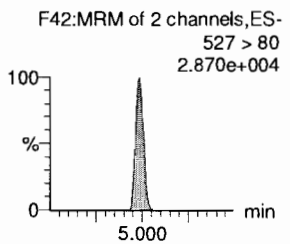




8:2 FTS





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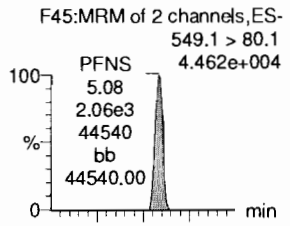

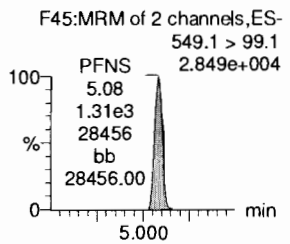

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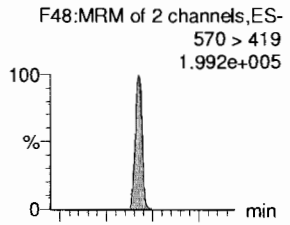

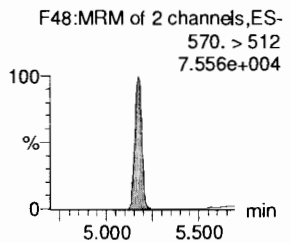

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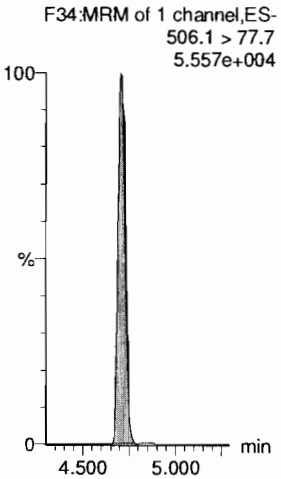

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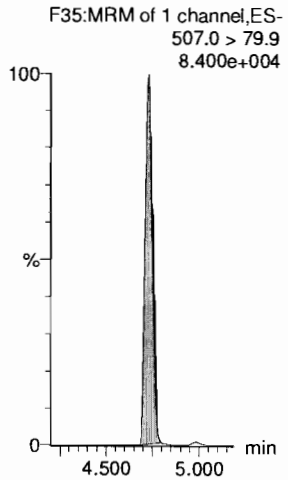

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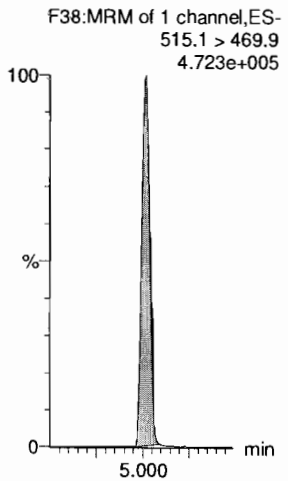
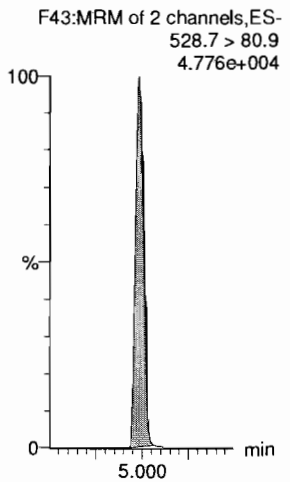


13C2-8:2 FTS



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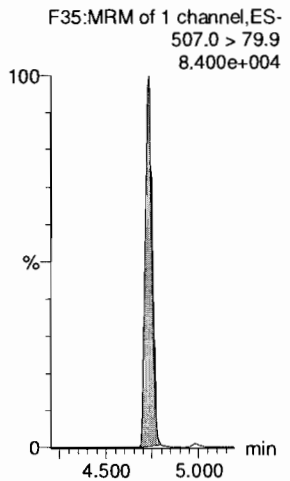

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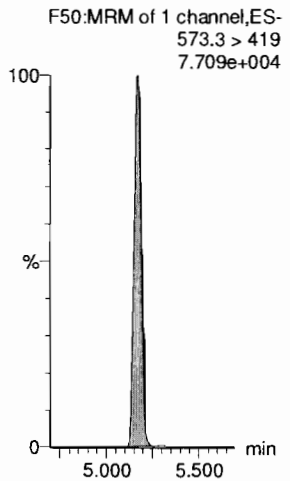

Vista Analytical Laboratory

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Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

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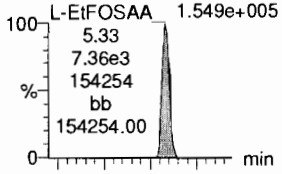
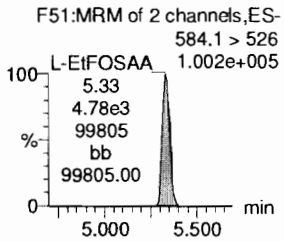
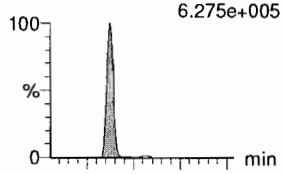
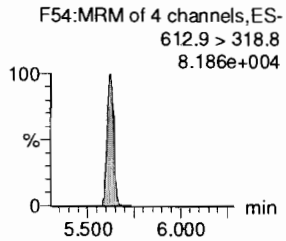




PFDoA





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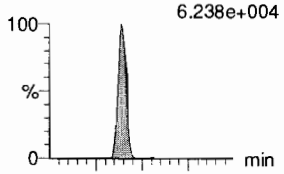

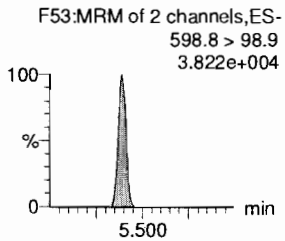

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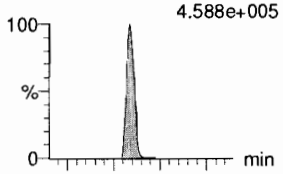
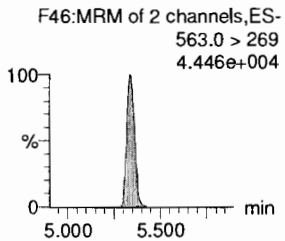
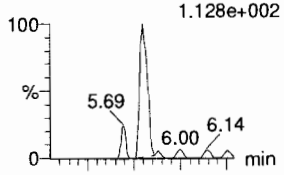
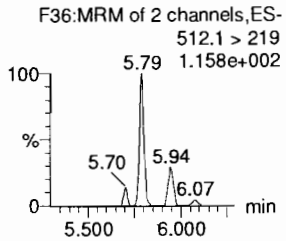




N-MeFOSA





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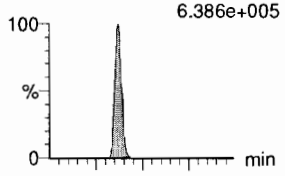

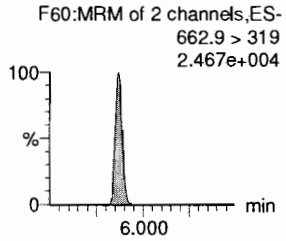

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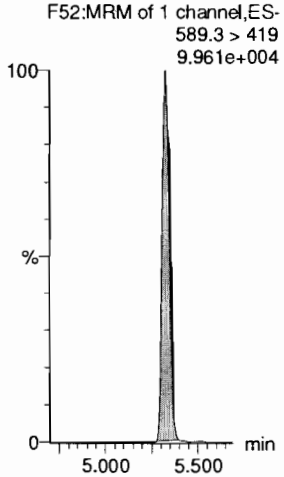

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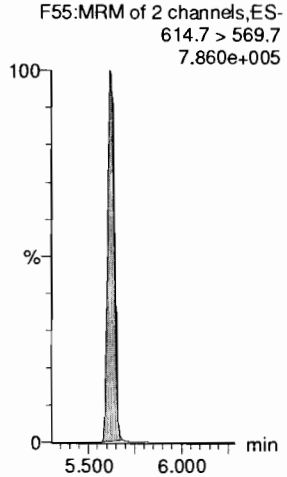

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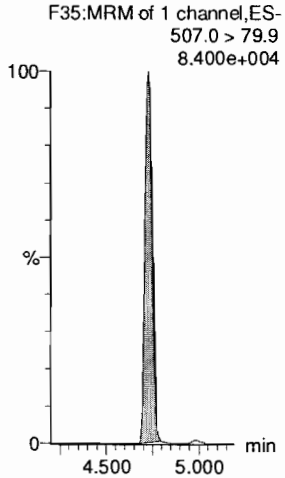

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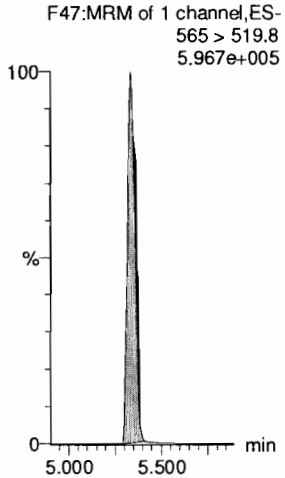

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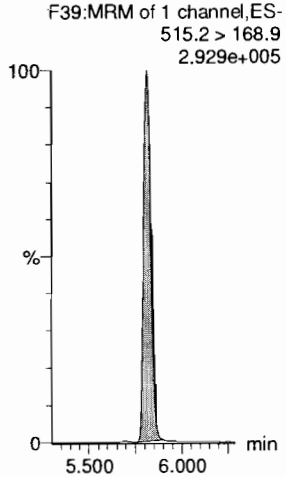
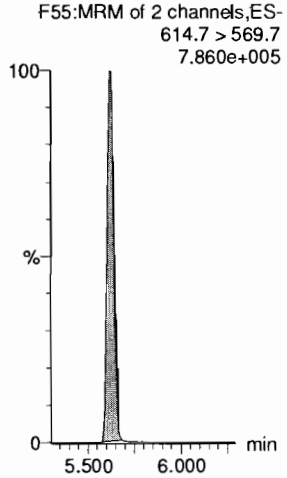


13C2-PFDoA



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Printed: Wednesday, February 20, 2019 09:45:25 Pacific Standard Time

Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

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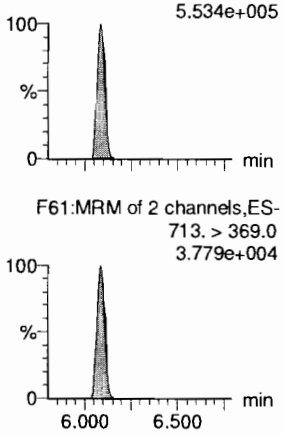
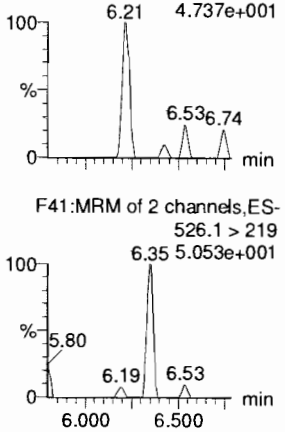


N-EtFOSA



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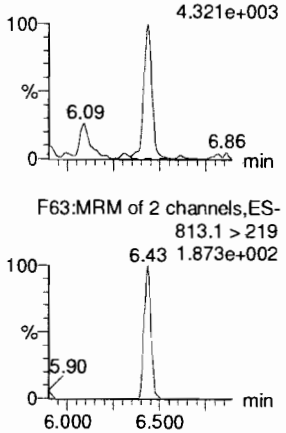
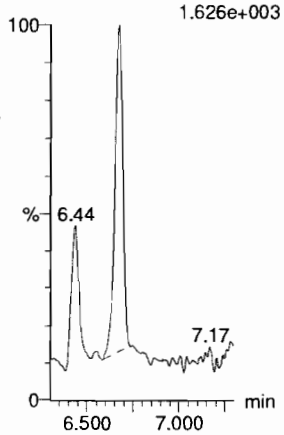
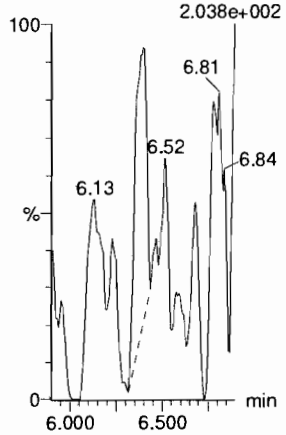


PFODA



N-MeFOSE



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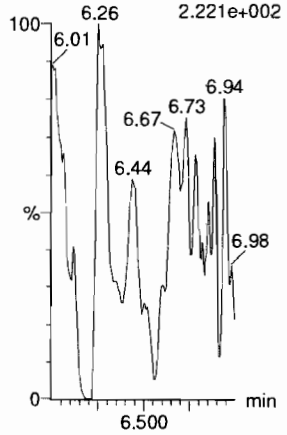

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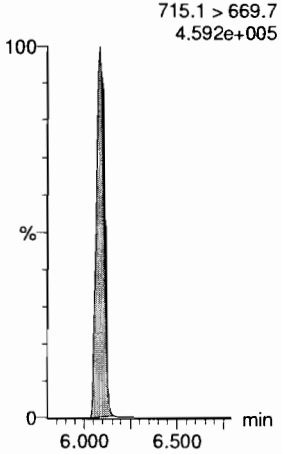

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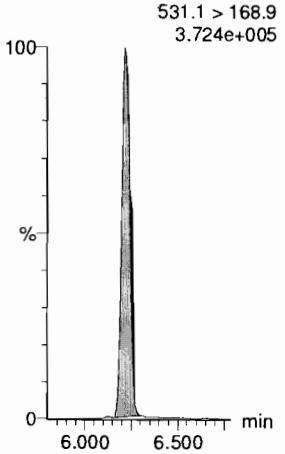

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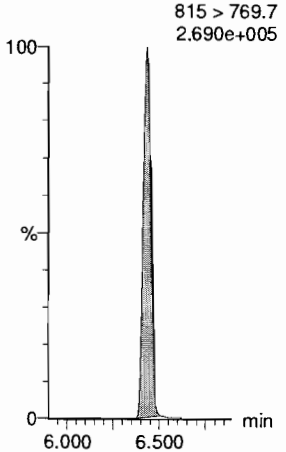

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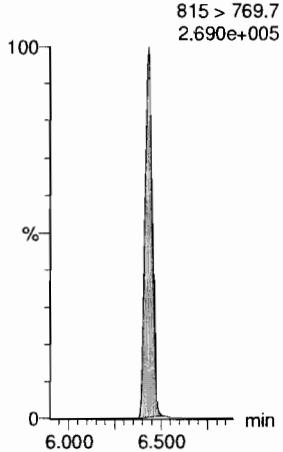

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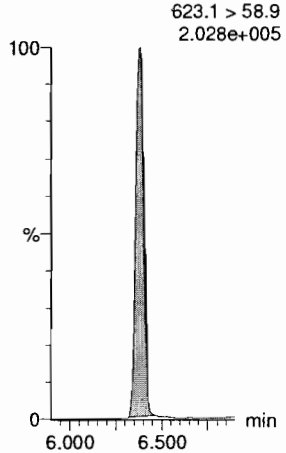

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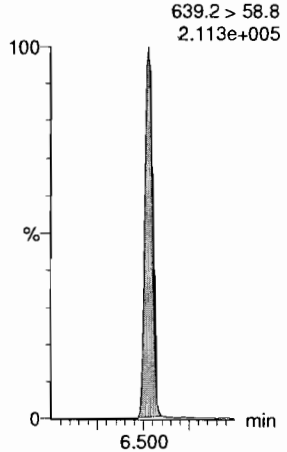

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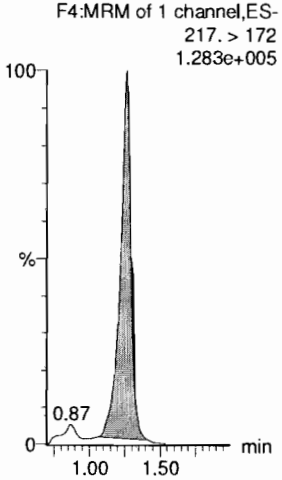
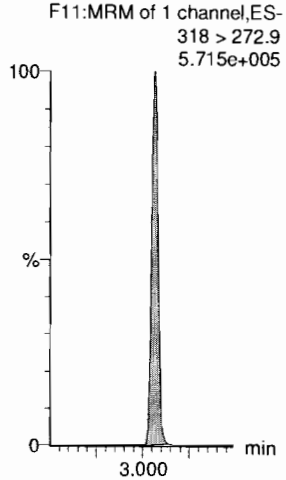
Name: 190219M2_13, Date: 19-Feb-2019, Time: 18:47:25, ID: ICV190219M2-1 PFC ICV 19B1311, Description: PFC ICV 19B1311

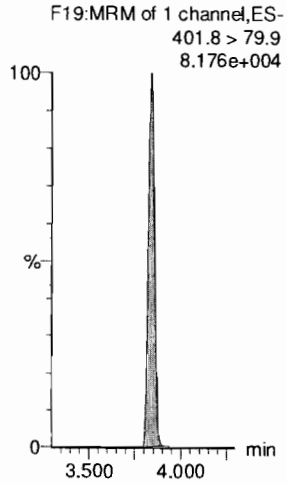
13C4-PFBA



13C5-PFHxA



13C3-PFHxS



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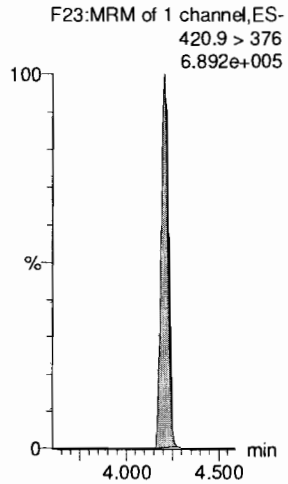

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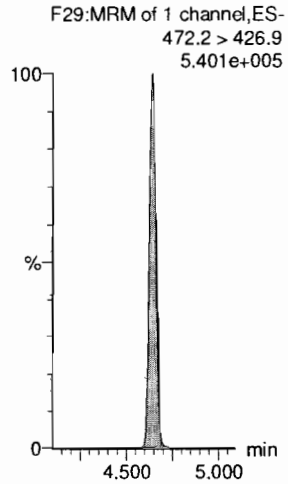

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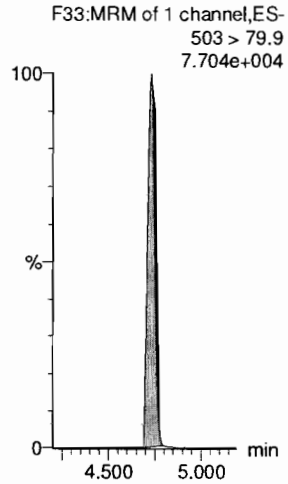

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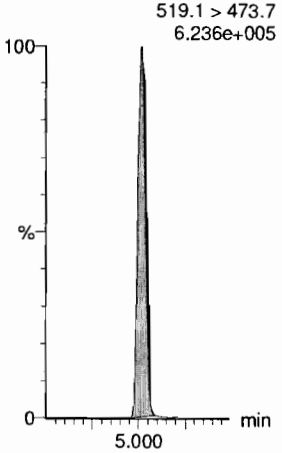

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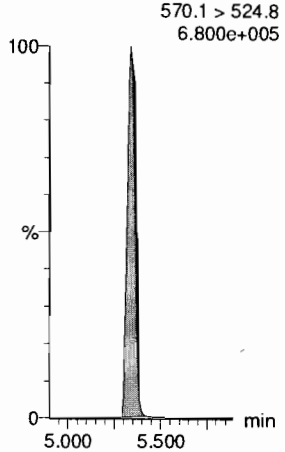

Vista Analytical Laboratory

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Last Altered: Wednesday, February 20, 2019 09:51:49 Pacific Standard Time
Printed: Wednesday, February 20, 2019 09:52:01 Pacific Standard Time

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Name: 190219M2_12, Date: 19-Feb-2019, Time: 18:36:47, ID: IPA, Description: IPA

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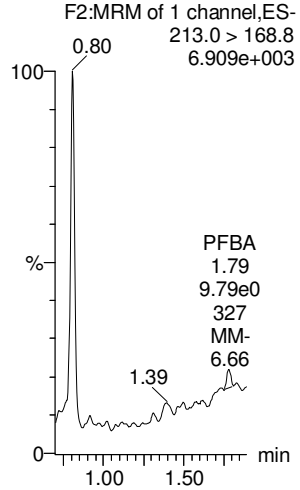

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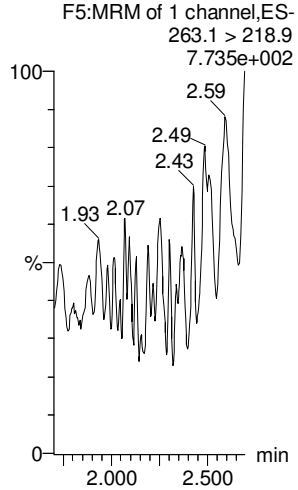

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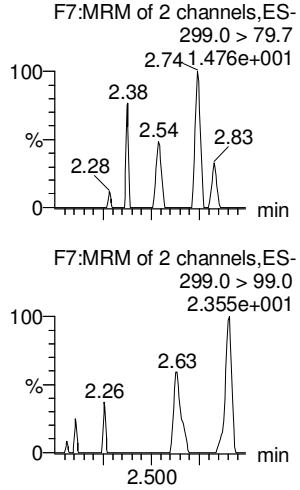
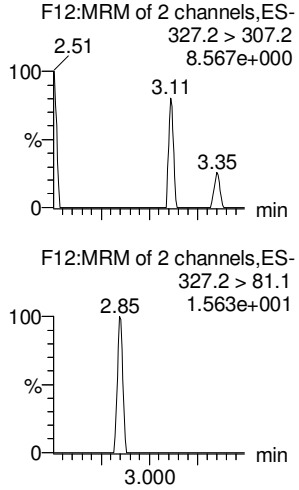


4:2 FTS



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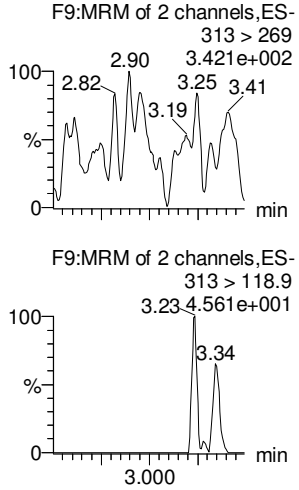

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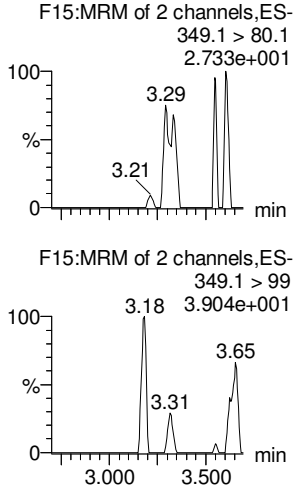

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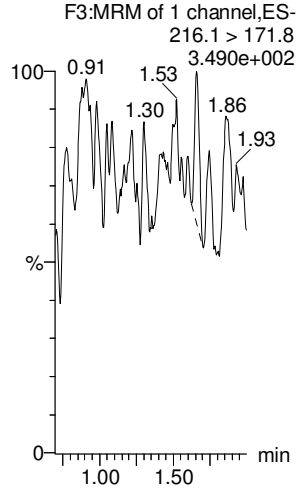

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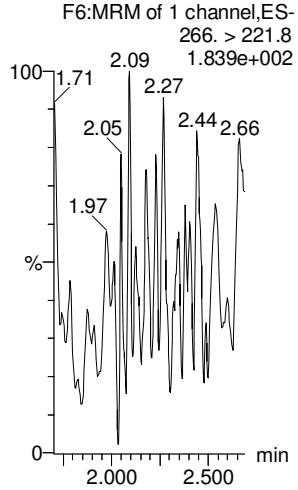

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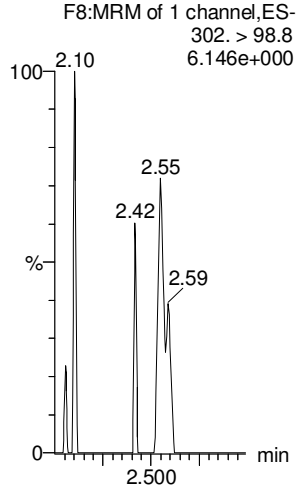
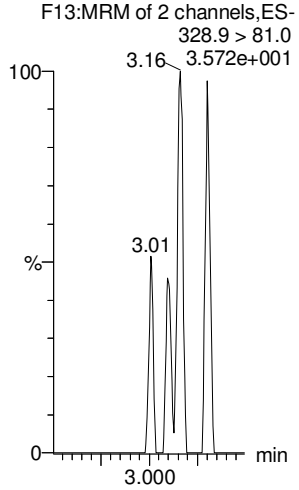


13C2-4:2 FTS



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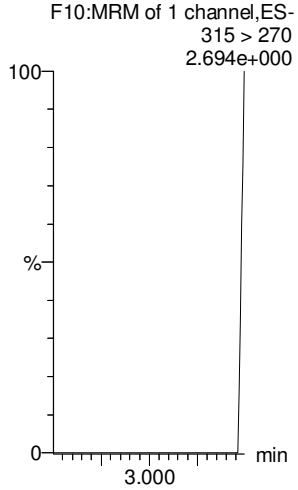

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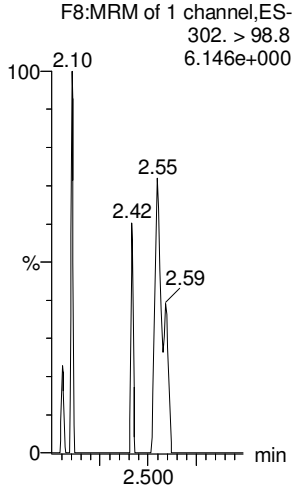

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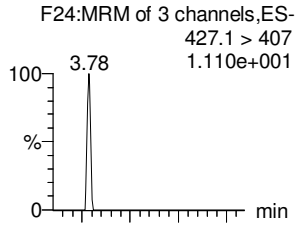
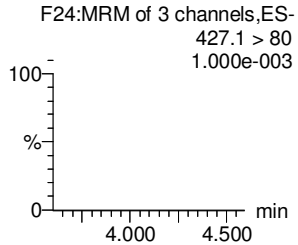
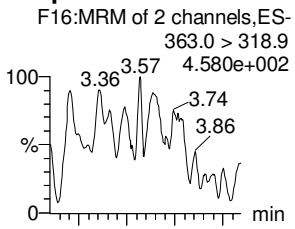
Name: 190219M2_12, Date: 19-Feb-2019, Time: 18:36:47, ID: IPA, Description: IPA

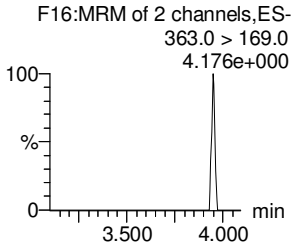
6:2 FTS



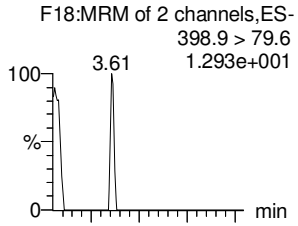


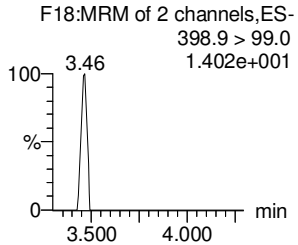
PFHpA





L-PFHxS





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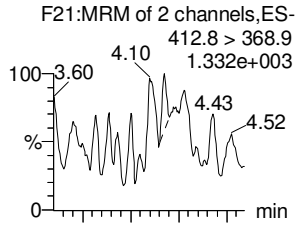

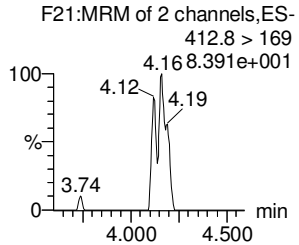

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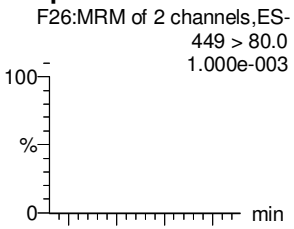

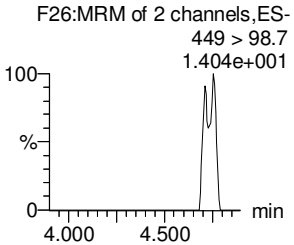

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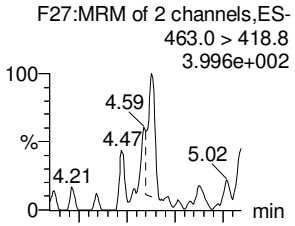
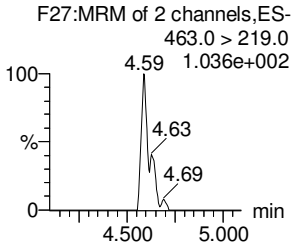
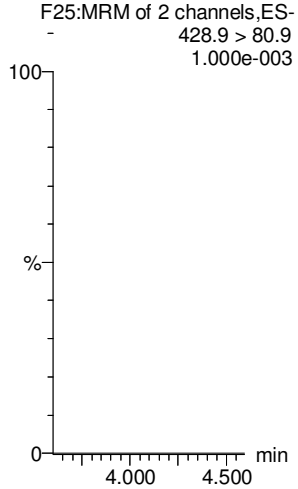




13C2-6:2 FTS



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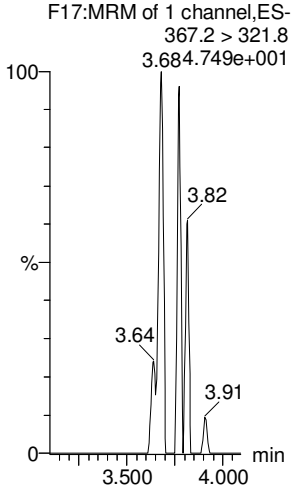

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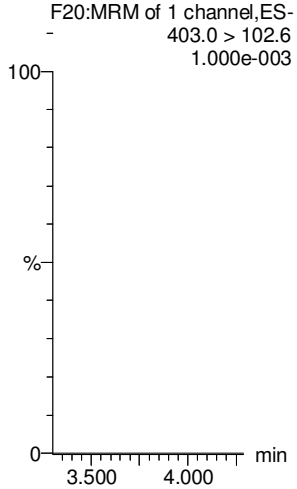

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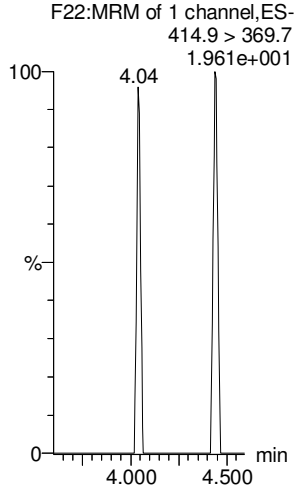

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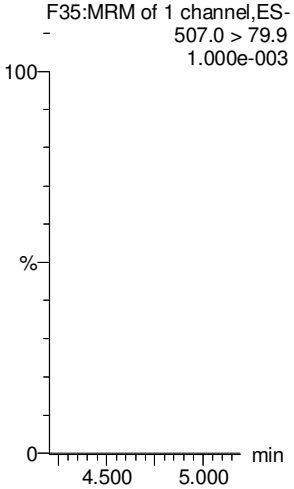

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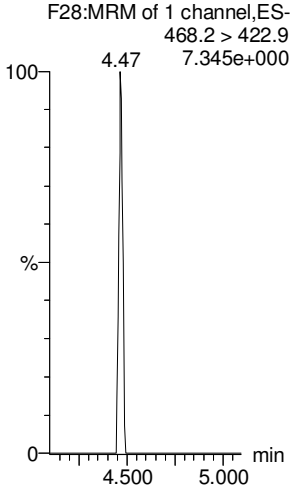

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Printed: Wednesday, February 20, 2019 09:52:01 Pacific Standard Time

Name: 190219M2_12, Date: 19-Feb-2019, Time: 18:36:47, ID: IPA, Description: IPA

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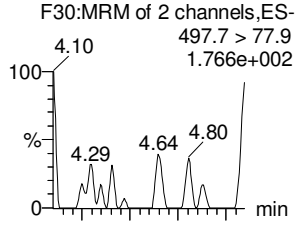

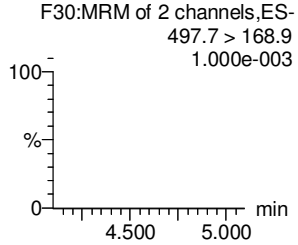

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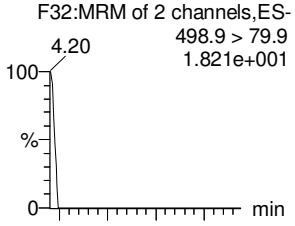
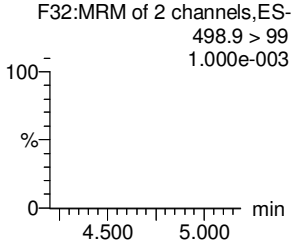
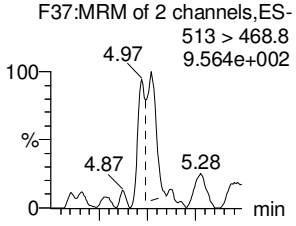
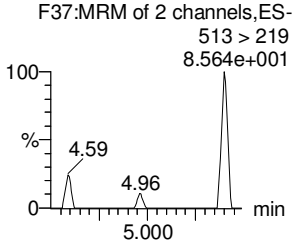




PFDA





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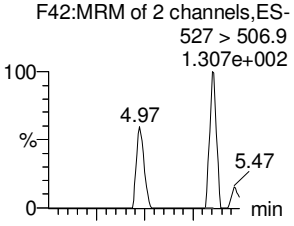

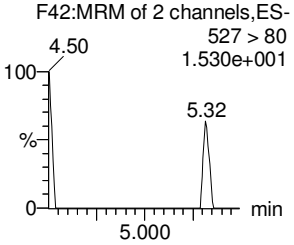

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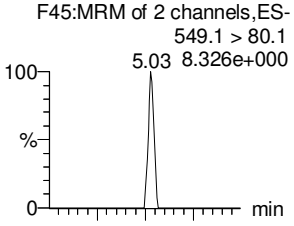

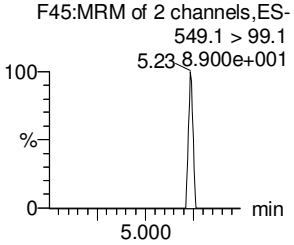

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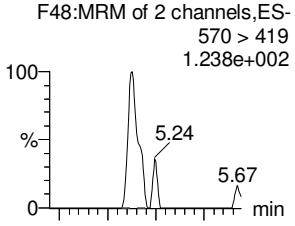

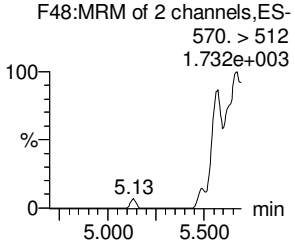

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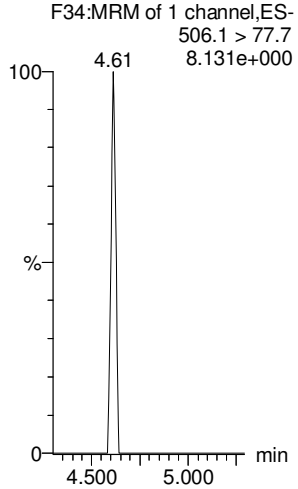

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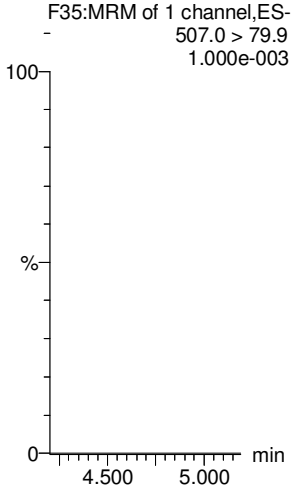

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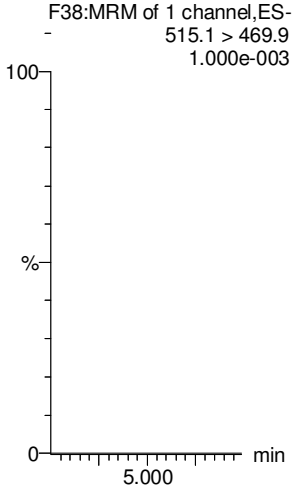
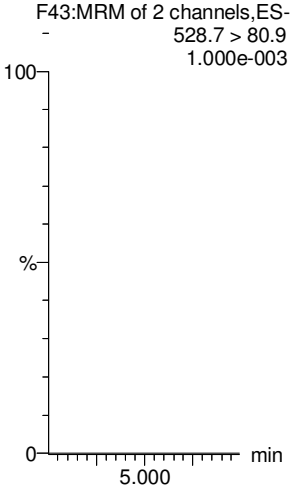


13C2-8:2 FTS



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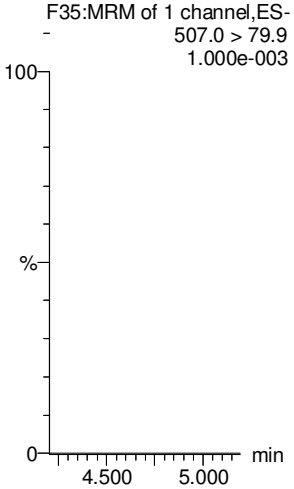

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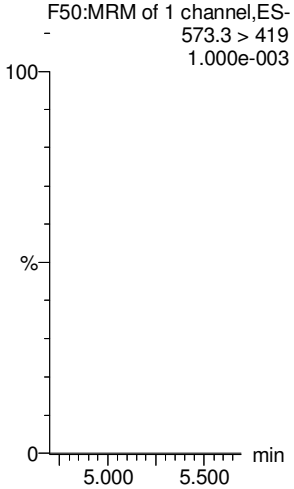

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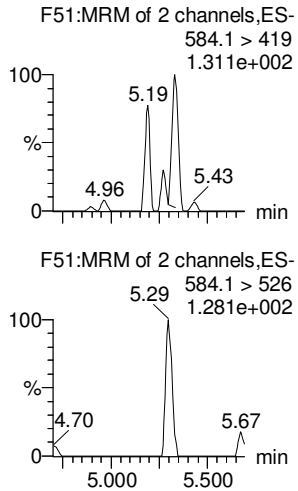

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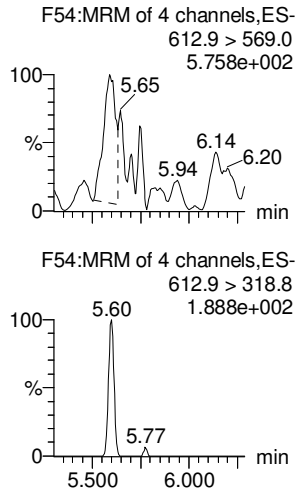

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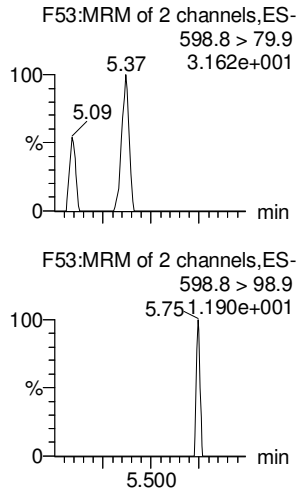

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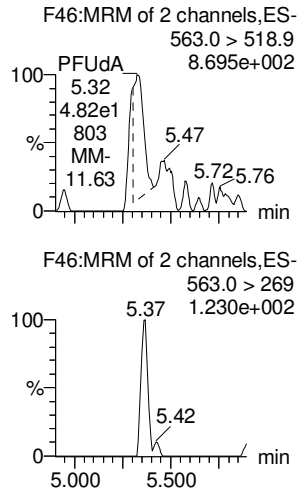

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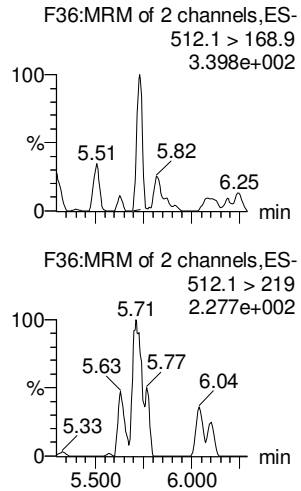

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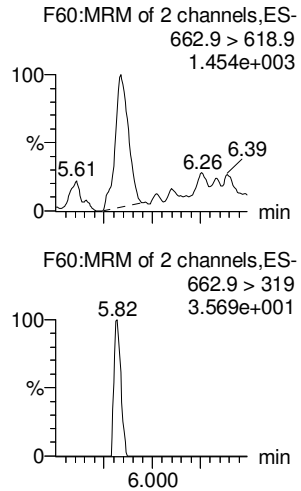

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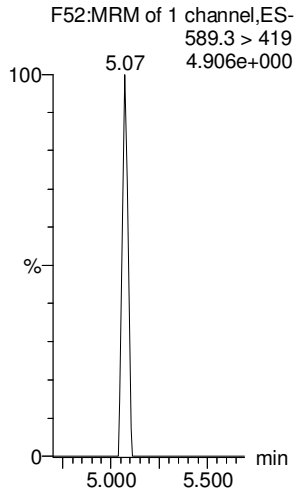

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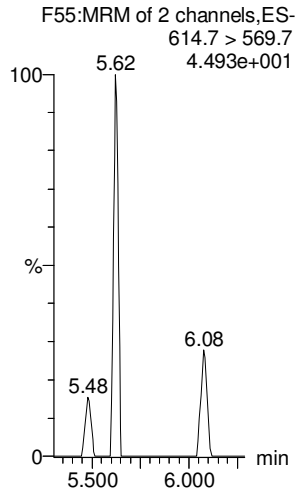

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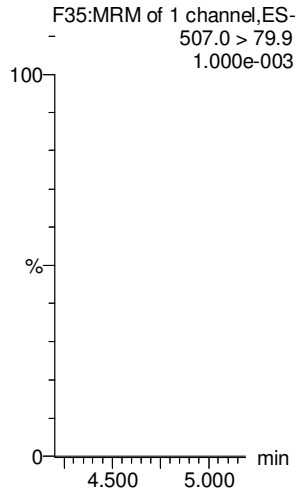

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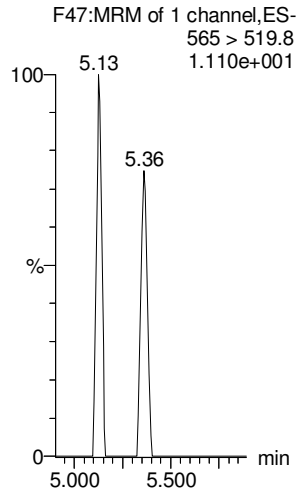

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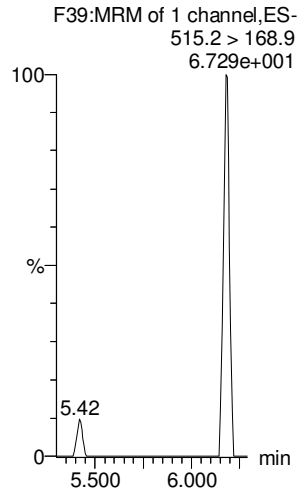

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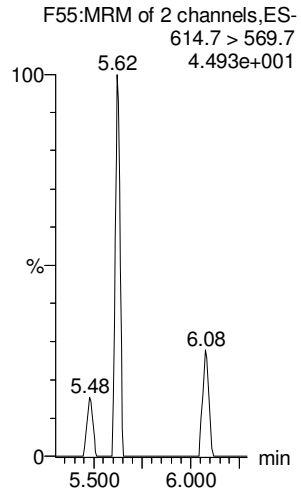

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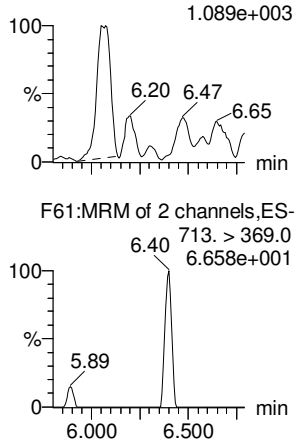

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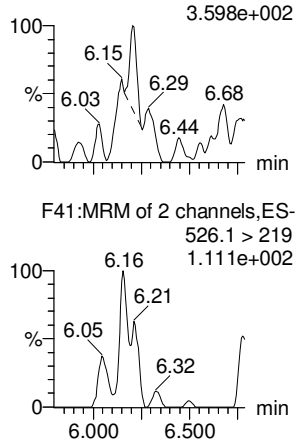

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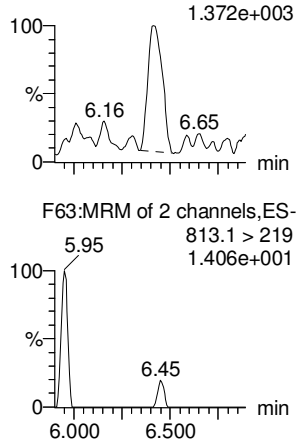

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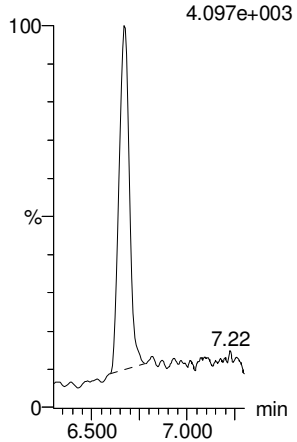

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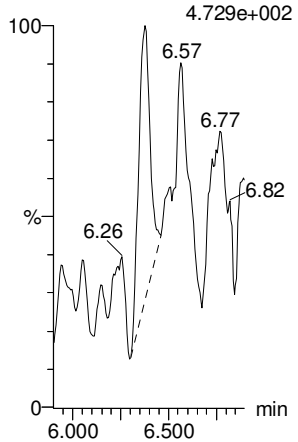

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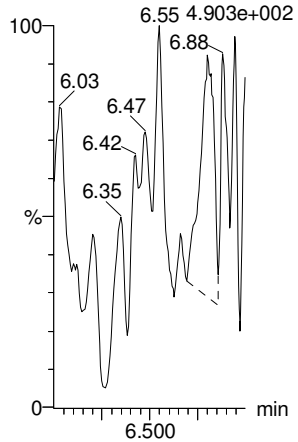

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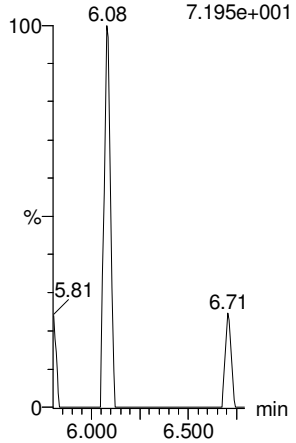

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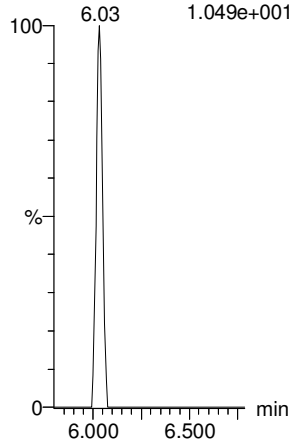

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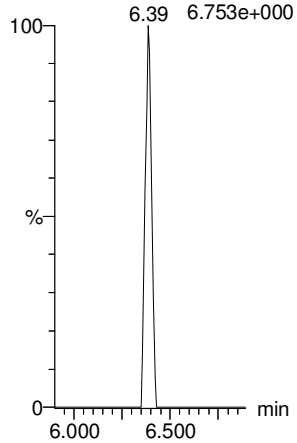

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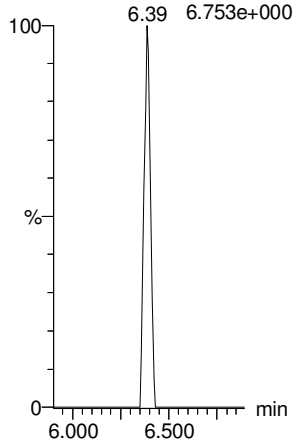

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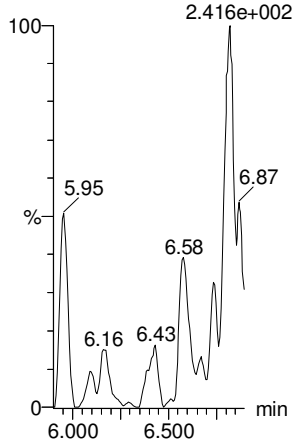

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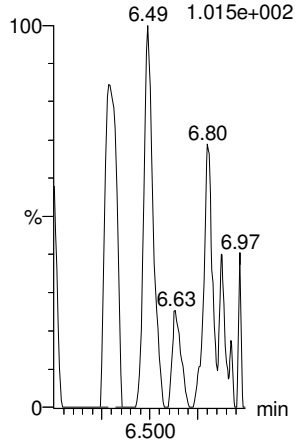

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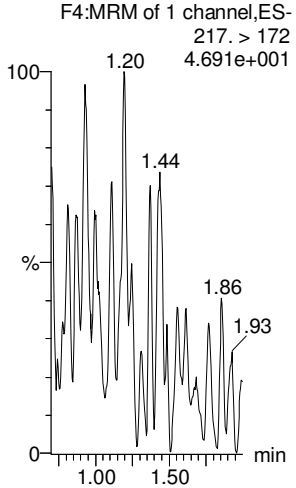

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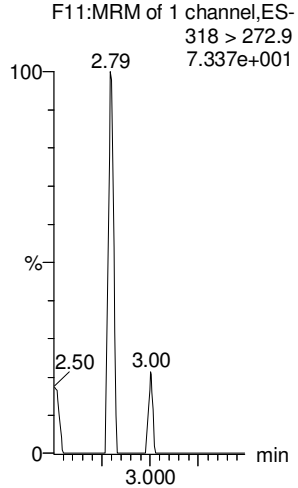

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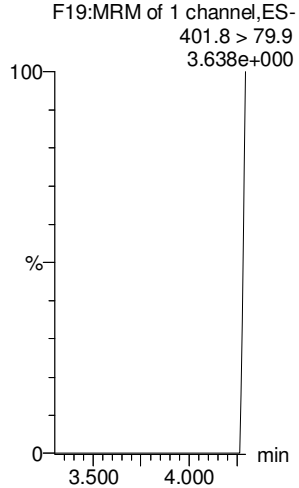

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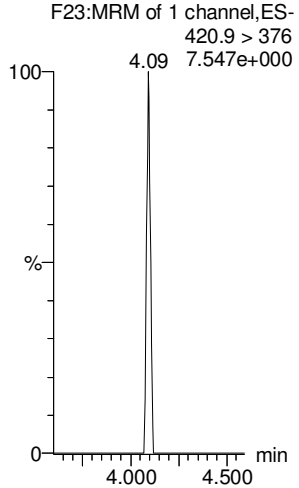

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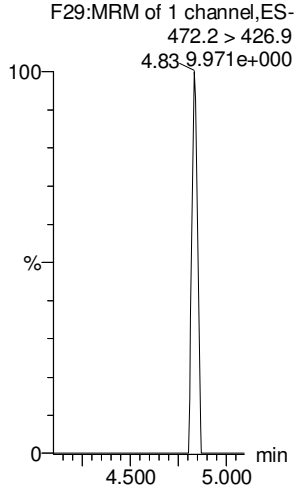

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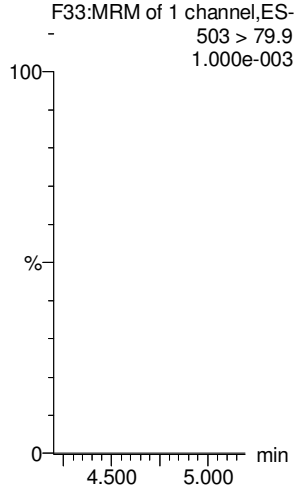

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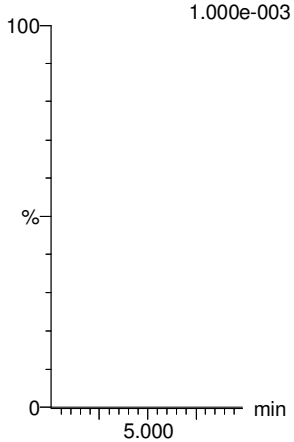
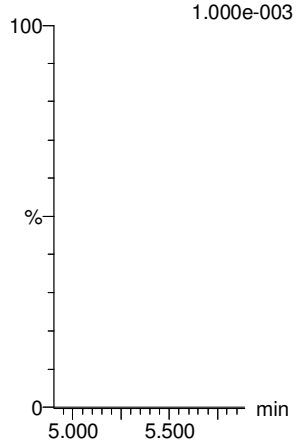
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