



**Off-base Drinking Water Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Figure, SDG 1800405**

*Marine Corps Outlying Landing Field Atlantic
MCAS Cherry Point NC*

February 2019

March 12, 2018

Vista Work Order No. 1800405

Ms. Tiffany Hill
CH2M Hill
1100 NE Circle Blvd. Suite 300
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 03, 2018. This sample set was analyzed on a rush turn-around time, under your Project Name 'MCOLF ATLANTIC PFAS DW Investigation'.

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,



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. 1800405

Case Narrative

Sample Condition on Receipt:

Eighteen drinking 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.

Analytical Notes:

EPA Method 537

The samples were extracted and analyzed for PFBS, PFOA and PFOS using 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 Laboratory Reagent Blank (LRB) and Laboratory Fortified Blank (LFB)/Laboratory Fortified Blank Duplicate (LFBD) were extracted and analyzed with the preparation batch. No analytes were detected in the Laboratory Reagent Blank above 1/2 the LOQ. The LFB/LFBD recoveries were within the method acceptance criteria.

The extracts of samples "CH-AT-1FB181-0218", "CH-AT-1RW183-0218", "CH-AT-1FB185-0218", "CH-AT-1FB186-0218", "CH-AT-1RW187-0218" and "CH-AT-1FB187-0218" were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The area criteria passed for the second injection and the results from the re-injection have been reported.

The surrogate 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
1800405-01	CH-AT-1RW180-0218	01-Mar-18 14:50	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-02	CH-AT-1FB180-0218	01-Mar-18 14:51	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-03	CH-AT-1RW181-0218	01-Mar-18 15:05	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-04	CH-AT-1FB181-0218	01-Mar-18 15:06	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-05	CH-AT-1RW182-0218	01-Mar-18 16:09	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-06	CH-AT-1FB182-0218	01-Mar-18 16:10	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-07	CH-AT-1RW183-0218	01-Mar-18 16:20	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-08	CH-AT-1FB183-0218	01-Mar-18 16:21	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-09	CH-AT-1RW184-0218	01-Mar-18 16:32	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-10	CH-AT-1FB184-0218	01-Mar-18 16:33	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-11	CH-AT-1RW185-0218	01-Mar-18 16:54	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-12	CH-AT-1FB185-0218	01-Mar-18 16:55	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-13	CH-AT-1RW186-0218	01-Mar-18 17:12	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-14	CH-AT-1FB186-0218	01-Mar-18 17:13	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-15	CH-AT-1RW187-0218	01-Mar-18 19:30	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-16	CH-AT-1FB187-0218	01-Mar-18 19:31	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-17	CH-AT-1RW188-0218	01-Mar-18 19:42	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-18	CH-AT-1FB188-0218	01-Mar-18 19:43	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: LRB **EPA Method 537**

Client Data					Laboratory Data					
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	B8C0030-BLK1	Column:	BEH C18		
Project:	MCOLF ATLANTIC PFAS DW Investigation									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.443	5.00	10.0		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1
PFOA	ND	1.08	5.00	10.0		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1
PFOS	ND	1.04	5.00	10.0		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	98.1	70 - 130		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1
13C2-PFDA	SURR	92.4	70 - 130		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

LFB/LFBD Results				EPA Method 537			
Matrix: Aqueous	QC Batch: B8C0030			Lab Sample: B8C0030-BS1/B8C0030-BSD1			
Sample Size: 0.250 L	Date Extracted: 06-Mar-2018 8:45			Date Analyzed: 07-Mar-18 18:43 Column: BEH C18 07-Mar-18 18:55 Column: BEH C18			
Analyte	LFB-%R	LFBD-%R	RPD	Labeled Standard		LFB-%R	LFBD-%R
PFBS	113	111	1.17	SUR	13C2-PFHxA	99.0	98.7
PFOA	117	113	3.13	SUR	13C2-PFDA	89.8	91.1
PFOS	98.8	94.6	4.38				

LCL-UCL - Lower control limit - upper control limit

Sample ID: CH-AT-1RW180-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-01	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 14:50	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	0.552	0.438	4.94	9.90	J	B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1
PFOA	1.08	1.07	4.94	9.90	J	B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1
PFOS	ND	1.03	4.94	9.90		B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	93.2	70 - 130		B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1
13C2-PFDA	SURR	81.7	70 - 130		B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB180-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-02	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 14:51	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.431	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
PFOA	ND	1.05	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
PFOS	ND	1.01	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	91.6	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
13C2-PFDA	SURR	93.0	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW181-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-03	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 15:05	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.441	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
PFOA	ND	1.08	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
PFOS	ND	1.04	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	89.1	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
13C2-PFDA	SURR	97.6	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB181-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-04	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 15:06	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.428	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1
PFOA	ND	1.04	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1
PFOS	ND	1.01	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	94.2	70 - 130		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1
13C2-PFDA	SURR	86.3	70 - 130		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW182-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-05	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:09	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.442	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
PFOA	ND	1.08	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
PFOS	ND	1.04	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	98.9	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
13C2-PFDA	SURR	90.2	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB182-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-06	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:10	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.423	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1
PFOA	ND	1.03	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1
PFOS	ND	0.994	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	95.1	70 - 130		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1
13C2-PFDA	SURR	90.9	70 - 130		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1

DL - Detection Limit	LOD - Limit of Detection	LCL-UCL- Lower control limit - upper control limit	When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
	LOQ - Limit of quantitation	Results reported to the DL.	Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW183-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-07	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:20	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.438	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1
PFOA	ND	1.07	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1
PFOS	ND	1.03	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	90.6	70 - 130		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1
13C2-PFDA	SURR	90.5	70 - 130		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB183-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-08	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:21	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	90.1	70 - 130			B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
13C2-PFDA	SURR	80.4	70 - 130			B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW184-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-09	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:32	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1
PFOA	ND	1.06	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1
PFOS	ND	1.02	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	93.1	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1
13C2-PFDA	SURR	88.3	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB184-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-10	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:33	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.433	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
PFOA	ND	1.06	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
PFOS	ND	1.02	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	91.0	70 - 130		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
13C2-PFDA	SURR	71.7	70 - 130		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW185-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-11	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:54	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.435	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
PFOA	ND	1.06	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
PFOS	ND	1.02	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	88.0	70 - 130		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
13C2-PFDA	SURR	81.1	70 - 130		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB185-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-12	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:55	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.426	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
PFOA	ND	1.04	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
PFOS	ND	0.999	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	84.3	70 - 130		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
13C2-PFDA	SURR	82.5	70 - 130		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW186-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-13	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 17:12	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.436	4.92	9.85		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
PFOA	1.56	1.06	4.92	9.85	J	B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
PFOS	ND	1.02	4.92	9.85		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	81.8	70 - 130			B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
13C2-PFDA	SURR	80.1	70 - 130			B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB186-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-14	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 17:13	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	90.7	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1
13C2-PFDA	SURR	82.6	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1

DL - Detection Limit	LOD - Limit of Detection	LCL-UCL- Lower control limit - upper control limit	When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
	LOQ - Limit of quantitation	Results reported to the DL.	Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW187-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-15	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:30	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.430	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
PFOA	ND	1.05	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
PFOS	ND	1.01	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	86.4	70 - 130		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
13C2-PFDA	SURR	76.6	70 - 130		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB187-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-16	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:31	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	91.4	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
13C2-PFDA	SURR	96.9	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW188-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-17	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:42	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.431	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
PFOA	1.66	1.05	4.86	9.72	J	B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
PFOS	ND	1.01	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	92.7	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
13C2-PFDA	SURR	81.2	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1

DL - Detection Limit	LOD - Limit of Detection LOQ - Limit of quantitation	LCL-UCL- Lower control limit - upper control limit Results reported to the DL.	When reported, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.
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Sample ID: CH-AT-1FB188-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-18	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:43	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.438	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
PFOA	ND	1.07	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
PFOS	ND	1.03	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	84.0	70 - 130		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
13C2-PFDA	SURR	76.3	70 - 130		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
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.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
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.



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 1800405 Temp: 0.7 °C
 Storage ID: WR-2 Storage Secured Yes No

Project ID: CTO-08, MCOLF Atlantic PFAS DW Investigation PO#: 10006-7-106051 Sampler: M. Wittmer / K. Smith (name)

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

Invoice to: Name Tiffany Hill Company CH2M Address 1100 NE Circle Blvd Suite #300 City Corvallis State Oregon Ph# 541-768-3109 Fax# _____

Relinquished by (printed name and signature) Kathryn Smith Date 3/2/18 Time 1300 Received by (printed name and signature) Jan Arzuella Date 3/3/18 Time 1040

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

Method of Shipment: FEDEX
 Tracking No: _____
 Add Analysis(es) Requested: _____
 Container(s): _____
 Mod EPA Method 537
 EPA Method 537 (DW only)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	PFOA/PFOS	UCMR3 PFAS List 6	537 List 14	Full List of 26	Other: Please List	PFOA/PFOS/PPRS	UCMR3 PFAS List 6	PFAS List 14	Comments
CH-AT-1RW180-0218	3/1/18	1450		2	P	DW						TE			
CH-AT-1FB180-0218		1451		2	P	DW						TE			
CH-AT-1RW181-0218		1505		2	P	DW						TE			
CH-AT-1FB181-0218		1506		2	P	DW						TE			
CH-AT-1RW182-0218		1609		2	P	DW						TE			
CH-AT-1FB182-0218		1610		2	P	DW						TE			
CH-AT-1RW183-0218		1620		2	P	DW						TE			
CH-AT-1FB183-0218		1621		2	P	DW						TE			
CH-AT-1RW184-0218		1632		2	P	DW						TE			
CH-AT-1FB184-0218		1633		2	P	DW						TE			

Special Instructions/Comments: 7 DAY TAT
Analysis of Drinking Water samples for PFOA/PFOS/PPFS

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M HILL Inc.
 Address: 1100 NE Circle Blvd Suite 300
 City: Corvallis State: OR Zip: 97330
 Phone: 541-768-3109 Fax: _____
 Email: Tiffany.Hill@ch2m.com

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



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 1800405 Temp 0.7 °C
 Storage ID WR-2 Storage Secured Yes No

Project ID CTO-08, MCOLF Atlantic PFAS DW Investigation PO# 10006-7-106051 Sampler: M. Witmer / K. Smith
 (name)

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

Invoice to: Name Tiffany Hill Company CH2M Address 1100 NE Circle Blvd Suite #300 City Corvallis State Oregon Ph# 541-768-3109 Fax# _____

Relinquished by (printed name and signature) Kathryn Smith Date 3/2/18 Time 1300 Received by (printed name and signature) Ian Arquette Date 3/3/18 Time 1040

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: FEDEX
 ATTN: Martha Maier Tracking No. _____

Sample ID	Date	Time	Location/Sample Description	Add Analysis(es) Requested		Container(s)	Mod EPA Method 537	EPA Method 537(DW only)	Comments
				Quantity	Type				
CH-AT-1RW185-0218	3/1/18	1654		2	P DW				TZ
CH-AT-1FB185-0218		1655		2	P DW				TZ
CH-AT-1RW186-0218		1712		2	P DW				TZ
CH-AT-1FB186-0218		1713		2	P DW				TZ
CH-AT-1RW187-0218		1930		2	P DW				TZ
CH-AT-1FB187-0218		1931		2	P DW				TZ
CH-AT-1RW188-0218		1942		2	P DW				TZ
CH-AT-1FB188-0218		1943		2	P DW				TZ

Special Instructions/Comments: 7 DAY TAT
Analysis of Drinking Water samples for PFOA/PFOS/PFBs

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M HILL Inc.
 Address: 1100 NE Circle Blvd Suite 300
 City: Corvallis State: OR Zip: 97330
 Phone: 541-768-3109 Fax: _____
 Email: Tiffany.Hill@ch2m.com

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:

Sample Log-in Checklist

 Vista Work Order #: 1800405 TAT 7

Samples Arrival:	Date/Time: 03/03/18 1015	Initials: IA	Location: WR-2 Shelf/Rack: N/A				
Logged In:	Date/Time: 03/03/18 1106	Initials: IA	Location: WR-2 Shelf/Rack: E-4				
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac	<input type="radio"/> GSO	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice	<input type="radio"/> None			
Temp °C: 0.8 (uncorrected)	Time: 1034		Thermometer ID: IR-4				
Temp °C: 0.7 (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

	YES	NO	NA			
Adequate Sample Volume Received?	/					
Holding Time Acceptable?	/					
Shipping Container(s) Intact?	/					
Shipping Custody Seals Intact?	/					
Shipping Documentation Present?	/					
Airbill	/					
Trk #	/					
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 ₂ S ₂ O ₃	<input checked="" type="radio"/> Trizma	<input type="radio"/> None	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> NA
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

March 12, 2018

Vista Work Order No. 1800405

Ms. Tiffany Hill
CH2M Hill
1100 NE Circle Blvd. Suite 300
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 03, 2018. This sample set was analyzed on a rush turn-around time, under your Project Name 'MCOLF ATLANTIC PFAS DW Investigation'.

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,



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. 1800405

Case Narrative

Sample Condition on Receipt:

Eighteen drinking 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.

Analytical Notes:

EPA Method 537

The samples were extracted and analyzed for PFBS, PFOA and PFOS using 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 Laboratory Reagent Blank (LRB) and Laboratory Fortified Blank (LFB)/Laboratory Fortified Blank Duplicate (LFBD) were extracted and analyzed with the preparation batch. No analytes were detected in the Laboratory Reagent Blank above 1/2 the LOQ. The LFB/LFBD recoveries were within the method acceptance criteria.

The extracts of samples "CH-AT-1FB181-0218", "CH-AT-1RW183-0218", "CH-AT-1FB185-0218", "CH-AT-1FB186-0218", "CH-AT-1RW187-0218" and "CH-AT-1FB187-0218" were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The area criteria passed for the second injection and the results from the re-injection have been reported.

The surrogate 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
1800405-01	CH-AT-1RW180-0218	01-Mar-18 14:50	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-02	CH-AT-1FB180-0218	01-Mar-18 14:51	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-03	CH-AT-1RW181-0218	01-Mar-18 15:05	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-04	CH-AT-1FB181-0218	01-Mar-18 15:06	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-05	CH-AT-1RW182-0218	01-Mar-18 16:09	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-06	CH-AT-1FB182-0218	01-Mar-18 16:10	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-07	CH-AT-1RW183-0218	01-Mar-18 16:20	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-08	CH-AT-1FB183-0218	01-Mar-18 16:21	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-09	CH-AT-1RW184-0218	01-Mar-18 16:32	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-10	CH-AT-1FB184-0218	01-Mar-18 16:33	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-11	CH-AT-1RW185-0218	01-Mar-18 16:54	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-12	CH-AT-1FB185-0218	01-Mar-18 16:55	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-13	CH-AT-1RW186-0218	01-Mar-18 17:12	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-14	CH-AT-1FB186-0218	01-Mar-18 17:13	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-15	CH-AT-1RW187-0218	01-Mar-18 19:30	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-16	CH-AT-1FB187-0218	01-Mar-18 19:31	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-17	CH-AT-1RW188-0218	01-Mar-18 19:42	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1800405-18	CH-AT-1FB188-0218	01-Mar-18 19:43	03-Mar-18 10:15	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

Vista Project: 1800405

Client Project: MCOLF ATLANTIC PFAS DW Investigation

ANALYTICAL RESULTS

Sample ID: LRB **EPA Method 537**

Client Data					Laboratory Data					
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	B8C0030-BLK1	Column:	BEH C18		
Project:	MCOLF ATLANTIC PFAS DW Investigation									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.443	5.00	10.0		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1
PFOA	ND	1.08	5.00	10.0		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1
PFOS	ND	1.04	5.00	10.0		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	98.1	70 - 130		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1
13C2-PFDA	SURR	92.4	70 - 130		B8C0030	06-Mar-18	0.250 L	07-Mar-18 18:31	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

LFB/LFBD Results				EPA Method 537			
Matrix: Aqueous	QC Batch: B8C0030			Lab Sample: B8C0030-BS1/B8C0030-BSD1			
Sample Size: 0.250 L	Date Extracted: 06-Mar-2018 8:45			Date Analyzed: 07-Mar-18 18:43 Column: BEH C18 07-Mar-18 18:55 Column: BEH C18			
Analyte	LFB-%R	LFBD-%R	RPD	Labeled Standard		LFB-%R	LFBD-%R
PFBS	113	111	1.17	SUR	13C2-PFHxA	99.0	98.7
PFOA	117	113	3.13	SUR	13C2-PFDA	89.8	91.1
PFOS	98.8	94.6	4.38				

LCL-UCL - Lower control limit - upper control limit

Sample ID: CH-AT-1RW180-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-01	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 14:50	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	0.552	0.438	4.94	9.90	J	B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1
PFOA	1.08	1.07	4.94	9.90	J	B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1
PFOS	ND	1.03	4.94	9.90		B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	93.2	70 - 130		B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1
13C2-PFDA	SURR	81.7	70 - 130		B8C0030	06-Mar-18	0.253 L	07-Mar-18 19:08	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB180-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-02	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 14:51	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.431	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
PFOA	ND	1.05	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
PFOS	ND	1.01	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	91.6	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
13C2-PFDA	SURR	93.0	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW181-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-03	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 15:05	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.441	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
PFOA	ND	1.08	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
PFOS	ND	1.04	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	89.1	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
13C2-PFDA	SURR	97.6	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB181-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-04	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 15:06	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.428	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1
PFOA	ND	1.04	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1
PFOS	ND	1.01	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	94.2	70 - 130		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1
13C2-PFDA	SURR	86.3	70 - 130		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW182-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-05	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:09	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.442	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
PFOA	ND	1.08	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
PFOS	ND	1.04	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	98.9	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
13C2-PFDA	SURR	90.2	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB182-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-06	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:10	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.423	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1
PFOA	ND	1.03	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1
PFOS	ND	0.994	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	95.1	70 - 130		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1
13C2-PFDA	SURR	90.9	70 - 130		B8C0030	06-Mar-18	0.262 L	07-Mar-18 20:10	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW183-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-07	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:20	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.438	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1
PFOA	ND	1.07	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1
PFOS	ND	1.03	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	90.6	70 - 130		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1
13C2-PFDA	SURR	90.5	70 - 130		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB183-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-08	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:21	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	90.1	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
13C2-PFDA	SURR	80.4	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW184-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-09	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:32	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1
PFOA	ND	1.06	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1
PFOS	ND	1.02	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	93.1	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1
13C2-PFDA	SURR	88.3	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1

DL - Detection Limit	LOD - Limit of Detection LOQ - Limit of quantitation	LCL-UCL- Lower control limit - upper control limit Results reported to the DL.	When reported, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.
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Sample ID: CH-AT-1FB184-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-10	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:33	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.433	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
PFOA	ND	1.06	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
PFOS	ND	1.02	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	91.0	70 - 130			B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
13C2-PFDA	SURR	71.7	70 - 130			B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW185-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-11	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:54	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.435	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
PFOA	ND	1.06	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
PFOS	ND	1.02	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	88.0	70 - 130			B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
13C2-PFDA	SURR	81.1	70 - 130			B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB185-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-12	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:55	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.426	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
PFOA	ND	1.04	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
PFOS	ND	0.999	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	84.3	70 - 130		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
13C2-PFDA	SURR	82.5	70 - 130		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW186-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-13	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 17:12	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.436	4.92	9.85		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
PFOA	1.56	1.06	4.92	9.85	J	B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
PFOS	ND	1.02	4.92	9.85		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	81.8	70 - 130			B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1
13C2-PFDA	SURR	80.1	70 - 130			B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:36	1

DL - Detection Limit	LOD - Limit of Detection LOQ - Limit of quantitation	LCL-UCL- Lower control limit - upper control limit Results reported to the DL.	When reported, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.
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Sample ID: CH-AT-1FB186-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-14	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 17:13	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	90.7	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1
13C2-PFDA	SURR	82.6	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW187-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-15	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:30	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.430	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
PFOA	ND	1.05	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
PFOS	ND	1.01	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	86.4	70 - 130		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
13C2-PFDA	SURR	76.6	70 - 130		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB187-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-16	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:31	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	91.4	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
13C2-PFDA	SURR	96.9	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1RW188-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-17	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:42	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.431	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
PFOA	1.66	1.05	4.86	9.72	J	B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
PFOS	ND	1.01	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	92.7	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
13C2-PFDA	SURR	81.2	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: CH-AT-1FB188-0218 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-18	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 19:43	Date Received:	03-Mar-18 10:15		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.438	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
PFOA	ND	1.07	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
PFOS	ND	1.03	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	84.0	70 - 130			B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
13C2-PFDA	SURR	76.3	70 - 130			B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1

DL - Detection Limit	LOD - Limit of Detection LOQ - Limit of quantitation	LCL-UCL- Lower control limit - upper control limit Results reported to the DL.	When reported, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.
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DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
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.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
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.



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 1800405 Temp: 0.7 °C
 Storage ID: WR-2 Storage Secured Yes No

Project ID: CTO-08, MCOLF Atlantic PFAS DW Investigation PO#: 10006-7-106051 Sampler: M. Wittmer / K. Smith (name)

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

Invoice to: Name: Tiffany Hill Company: CH2M Address: 1100 NE Circle Blvd Suite #300 City: Corvallis State: Oregon Ph#: 541-768-3109 Fax#:

Relinquished by (printed name and signature): Kathryn Smith Date: 3/2/18 Time: 1300 Received by (printed name and signature): Jan Arzuella Date: 3/3/18 Time: 1040

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

Method of Shipment: FEDEX
 Tracking No: _____
 Add Analysis(es) Requested: _____
 Container(s): _____
 Mod EPA Method 537
 EPA Method 537 (DW only)

Sample ID	Date	Time	Location/Sample Description	Add Analysis(es) Requested							Comments		
				Quantity	Type	Matrix	PFOA/PFOS	UCMR3 PFAS List 5	537 List 14	Full List of 26		Other: Please List	
CH-AT-1RW180-0218	3/1/18	1450		2	P	DW							
CH-AT-1FB180-0218		1451		2	P	DW							
CH-AT-1RW181-0218		1505		2	P	DW							
CH-AT-1FB181-0218		1506		2	P	DW							
CH-AT-1RW182-0218		1609		2	P	DW							
CH-AT-1FB182-0218		1610		2	P	DW							
CH-AT-1RW183-0218		1620		2	P	DW							
CH-AT-1FB183-0218		1621		2	P	DW							
CH-AT-1RW184-0218		1632		2	P	DW							
CH-AT-1FB184-0218		1633		2	P	DW							

Special Instructions/Comments: 7 DAY TAT
Analysis of Drinking Water samples for PFOA/PFOS/PFBS

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M HILL Inc.
 Address: 1100 NE Circle Blvd Suite 300
 City: Corvallis State: OR Zip: 97330
 Phone: 541-768-3109 Fax: _____
 Email: Tiffany.Hill@ch2m.com

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



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 1800405 Temp 0.7 °C
 Storage ID WR-2 Storage Secured Yes No

Project ID CTO-08, MCOLF Atlantic PFAS DW Investigation PO# 10006-7-106051 Sampler: M. Witmer / K. Smith
 (name)

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

Invoice to: Name Tiffany Hill Company CH2M Address 1100 NE Circle Blvd Suite #300 City Corvallis State Oregon Ph# 541-768-3109 Fax# _____

Relinquished by (printed name and signature) Kathryn Smith Date 3/2/18 Time 1300 Received by (printed name and signature) Ian Arquette Date 3/3/18 Time 1040

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

Method of Shipment: FEDEX
 Add Analysis(es) Requested: _____
 Container(s): _____
 Tracking No: _____

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	Add Analysis(es) Requested				EPA Method 537(DW only)	Comments
							PFOA/PFOS	UCMR3 PFAS List 6	537 List: 14	Full List of 26 Other: Please List Below		
CH-AT-1RW185-0218	3/1/18	1654		2	P	DW					TZ	
CH-AT-1FB185-0218		1655		2	P	DW					TZ	
CH-AT-1RW186-0218		1712		2	P	DW					TZ	
CH-AT-1FB186-0218		1713		2	P	DW					TZ	
CH-AT-1RW187-0218		1930		2	P	DW					TZ	
CH-AT-1FB187-0218		1931		2	P	DW					TZ	
CH-AT-1RW188-0218		1942		2	P	DW					TZ	
CH-AT-1FB188-0218		1943		2	P	DW					TZ	

Special Instructions/Comments: 7 DAY TAT
Analysis of Drinking Water samples for PFOA/PFOS/PFBs

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M HILL Inc.
 Address: 1100 NE Circle Blvd Suite 300
 City: Corvallis State: OR Zip: 97330
 Phone: 541-768-3109 Fax: _____
 Email: Tiffany.Hill@ch2m.com

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:

Sample Log-in Checklist

Vista Work Order #: 1800405 TAT 7

Samples Arrival:	Date/Time: 03/03/18 1015	Initials: IA	Location: WR-2 Shelf/Rack: N/A				
Logged In:	Date/Time: 03/03/18 1106	Initials: IA	Location: WR-2 Shelf/Rack: E-4				
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac	<input type="radio"/> GSO	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice	<input type="radio"/> None			
Temp °C: 0.8 (uncorrected)	Time: 1034		Thermometer ID: IR-4				
Temp °C: 0.7 (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

	YES	NO	NA			
Adequate Sample Volume Received?	/					
Holding Time Acceptable?	/					
Shipping Container(s) Intact?	/					
Shipping Custody Seals Intact?	/					
Shipping Documentation Present?	/					
Airbill	/					
Trk #	/					
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 ₂ S ₂ O ₃	<input checked="" type="radio"/> Trizma	<input type="radio"/> None	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> NA
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

EXTRACTION INFORMATION

Process Sheet
 Workorder: 1800405



Prep Expiration: 2018-Mar-15
 Client: CH2M Hill

Workorder Due: 12-Mar-18 00:00

TAT: 9

Method: 537 PFAS DW DoD Unmodified
 Matrix: Aqueous

Prep Batch: B8C0030

Version: PFOA, PFOS, PFBS
 DoD: DoD QSM 5.1

Prep Data Entered: 0310718 MA
Date and Initials

Initial Sequence: S8C0016

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1800405-01	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW180-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-02		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB180-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW181-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB181-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW182-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB182-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW183-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB183-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW184-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB184-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW185-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-12		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB185-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-13		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW186-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-14		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB186-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-15		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW187-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-16		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB187-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-17		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1RW188-0218		WR-2 E-4	HDPE Bottle, 250 mL
1800405-18		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CH-AT-1FB188-0218		WR-2 E-4	HDPE Bottle, 250 mL

Pre-Prep Check Out: FR 3-5-18
 Pre-Prep Check In: JHC 3-5-18

HN 3/7/18
 Prep Check Out: ~~NA~~ HN 3/6/18
 Prep Check In: ~~NA~~ NA

HN
 HN 3/7/18

Prep Reconciled Initials/Date: FR 3-5-18
 Spike Reconciled Initials/Date: MA 3/5/18

VialBoxID: Sporange booty

PREPARATION BENCH SHEET

Matrix: Aqueous

B8C0030

Chemist: KC

Method: 537 PFAS DW DoD Unmodified

Prep Date/Time: 05-Mar-18 09:38

8:45
KC 3/6/18

Prepared using: LCMS - SPE Extraction-LCMS

Balance ID: HRMS-8

Cen	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	SS/NS CHEM/WIT DATE	SPE	IS CHEM/WIT DATE
<input type="checkbox"/>	B8C0030-BLK1 <u>Ⓐ</u>	(0.250) NA	NA	(0.250)	KC FR 3/6/18	HN FR 3/6/18	HN <u>fr</u> 3/6/18
<input type="checkbox"/>	B8C0030-BS1	(0.250) ↓	↓	(0.250)	↓	↓	↓
<input type="checkbox"/>	B8C0030-BSD1	(0.250) ↓	↓	(0.250)	↓	↓	↓
<input type="checkbox"/>	1800405-01	280.36	27.79	0.25257			
<input type="checkbox"/>	1800405-02	284.61	27.50	0.25711			
<input type="checkbox"/>	1800405-03	279.36	28.28	0.25108			
<input type="checkbox"/>	1800405-04	285.74	27.13	0.25861			
<input type="checkbox"/>	1800405-05	278.93	28.19	0.25074			
<input type="checkbox"/>	1800405-06	289.04	27.49	0.26155			
<input type="checkbox"/>	1800405-07	281.01	27.99	0.25302			
<input type="checkbox"/>	1800405-08	282.76	27.72	0.25504			
<input type="checkbox"/>	1800405-09	283.17	27.86	0.25531			
<input type="checkbox"/>	1800405-10	285.15	27.36	0.25579			
<input type="checkbox"/>	1800405-11	281.75	27.34	0.25441			
<input type="checkbox"/>	1800405-12	287.21	26.93	0.26028			
<input type="checkbox"/>	1800405-13	282.05	28.13	0.25392	↓	↓	↓

SS/IS: <u>18C0103, 20 μL</u> NS: <u>FR 2815, 20 μL</u> IS/RS: <u>18C0104, 20 μL</u>	SPE Chem: <u>Strata X 33 μm 500 mg/mL</u> Lot#: <u>S17-005658</u> Ele SOLV: <u>MeOH</u> Lot#: <u>JB064809</u> Final Volume(s) <u>1 mL</u>	Notes: <u>Ⓐ 1.25g Trizma added FR 3-5-18</u>
---	---	--

Comments: Assume 1 g = 1 mL
Cen = Centrifuged

PREPARATION BENCH SHEET

Matrix: Aqueous

B8C0030

Chemist: KC
 Prep Date/Time: ~~08-Mar-18 09:38~~
8:45
KC 3/6/18

Method: 537 PFAS DW DoD Unmodified

Prepared using: LCMS - SPE Extraction-LCMS

BalanceID: HRMS-8

Cen	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	SS/NS CHEM/WIT DATE	SPE	IS CHEM/WIT DATE
<input type="checkbox"/>	1800405-14	282.60	27.53	0.25507	KC 7R 3/6/18	HN 7R 3/6/18	HN #7 3/6/18
<input type="checkbox"/>	1800405-15	285.34	27.83	0.25751 ^{MA 3/7/18} 0.25751 0.25751	↓	↓	↓
<input type="checkbox"/>	1800405-16	282.75	27.73	0.25502			
<input type="checkbox"/>	1800405-17	284.99	27.92	0.25707			
<input type="checkbox"/>	1800405-18	279.86	26.99	0.25287			

SS/IS: <u>18C0103, 20 mL</u> NS: <u>17L2815, 20 mL</u> IS/RS: <u>18C0104, 20 mL</u>	SPE Chem: <u>Strata X 33^{500mg}um 6mL</u> Lot#: <u>S17-005658</u> Ele SOLV: <u>MeOH</u> Lot#: <u>J8064809</u> Final Volume(s) <u>1 mL</u>	Notes:
---	--	--------

Comments: Assume 1 g = 1 mL
 Cen = Centrifuged

Batch: B8C0030

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1800405-01	0.25257 ✓	NA	NA	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-02	0.25711 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-03	0.25108 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-04	0.25861 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-05	0.25074 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-06	0.26155 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-07	0.25302 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-08	0.25504 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-09	0.25531 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-10	0.25579 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-11	0.25441 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-12	0.26028 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-13	0.25392 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-14	0.25507 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-15	0.25751 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-16	0.25502 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-17	0.25707 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
1800405-18	0.25287 ✓	↓	↓	1000	06-Mar-18 08:45	KC			Drinking Water	537 PFAS DW DoD Unmoc
B8C0030-BLK1	0.25 ✓	↓	↓	1000	06-Mar-18 08:45	KC				QC
B8C0030-BS1	0.25 ✓	↓	↓	1000	06-Mar-18 08:45	KC	17L2815 ✓	20 ✓		QC
B8C0030-BSD1	0.25 ✓	↓	↓	1000	06-Mar-18 08:45	KC	17L2815 ✓	20 ✓		QC

✓ MA 03/07/18

SAMPLE DATA –EPA METHOD 537

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-4.qld

Last Altered: Sunday, March 11, 2018 10:20:29 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:21:23 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_4, Date: 07-Mar-2018, Time: 18:31:05, ID: B8C0030-BLK1 LRB 0.25, Description: LRB

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.44e4	0.2500		3.01				
2	5 PFOA	413 > 368.7	1.21e2	8.72e3	0.2500		4.28	4.28	0.138	0.661	
3	7 PFOS	499 >79.9	3.95e1	1.44e4	0.2500		4.70	4.70	0.0790	0.329	
4	15 13C2-PFHxA	315 > 269.8	6.26e3	8.72e3	0.2500	0.731	3.44	3.35	7.18	39.3	98.1
5	16 13C2-PFDA	515.1 > 469.9	7.33e3	8.72e3	0.2500	0.910	4.88	4.94	8.40	37.0	92.4
6	18 13C2-PFOA	414.9 > 369.7	8.72e3	8.72e3	0.2500	1.000	4.41	4.28	10.0	40.0	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.44e4	1.44e4	0.2500	1.000	4.81	4.70	28.7	115	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-4.qld

Last Altered: Sunday, March 11, 2018 10:20:29 Pacific Daylight Time

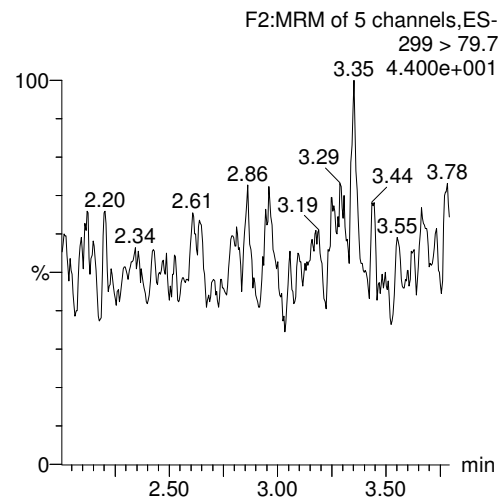
Printed: Sunday, March 11, 2018 10:21:23 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

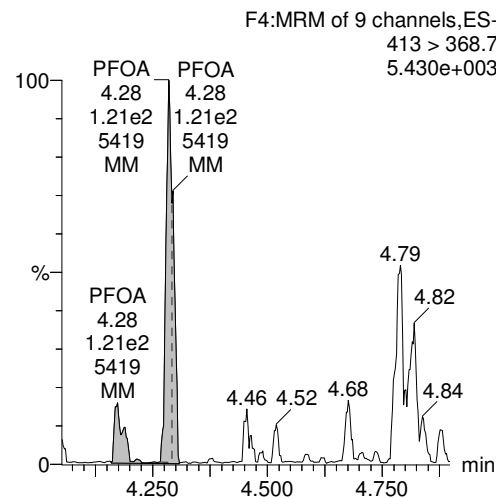
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_4, Date: 07-Mar-2018, Time: 18:31:05, ID: B8C0030-BLK1 LRB 0.25, Description: LRB

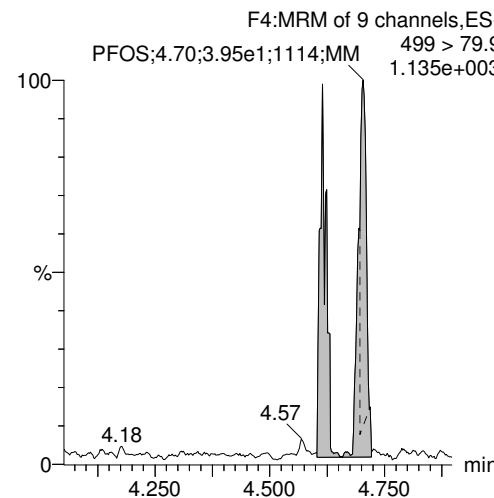
PFBS



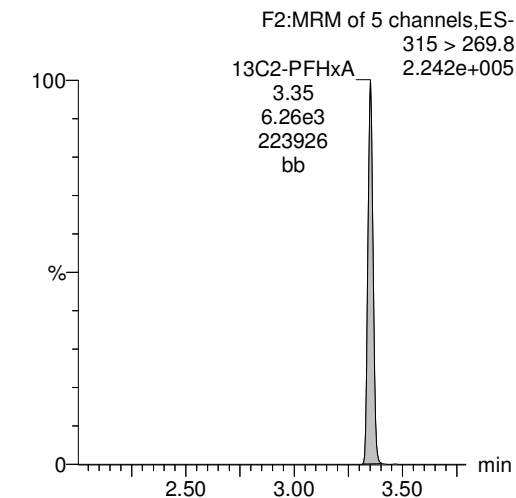
PFOA



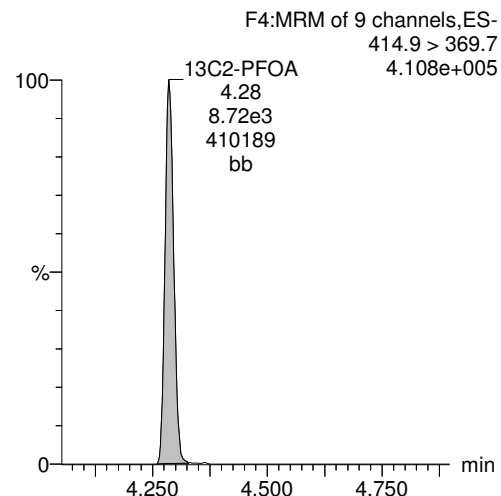
PFOS



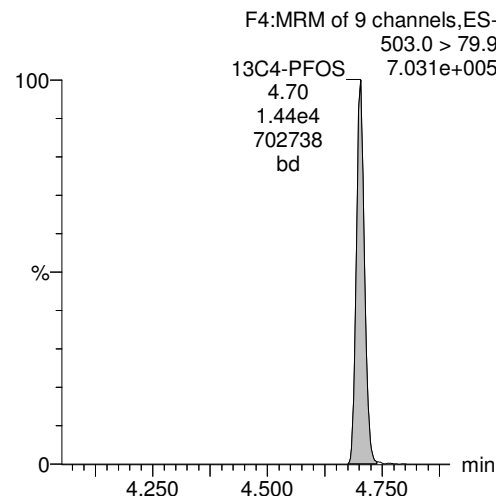
13C2-PFHxA



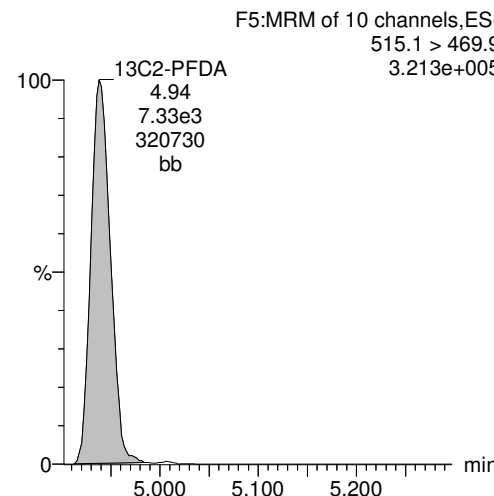
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-5.qld

Last Altered: Thursday, March 08, 2018 12:20:02 Pacific Standard Time

Printed: Sunday, March 11, 2018 10:22:32 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180307G4_5, Date: 07-Mar-2018, Time: 18:43:29, ID: B8C0030-BS1 LFB 0.25, Description: LFB

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.68e3	1.33e4	0.2500		3.01	2.98	3.64	19.9	112.6
2	5 PFOA	413 > 368.7	3.79e3	7.73e3	0.2500		4.29	4.28	4.90	23.4	117.0
3	7 PFOS	499 >79.9	2.03e3	1.33e4	0.2500		4.70	4.70	4.38	18.3	98.7
4	15 13C2-PFHxA	315 > 269.8	5.60e3	7.73e3	0.2500	0.731	3.44	3.35	7.24	39.6	99.0
5	16 13C2-PFDA	515.1 > 469.9	6.32e3	7.73e3	0.2500	0.910	4.89	4.94	8.17	35.9	89.8
6	18 13C2-PFOA	414.9 > 369.7	7.73e3	7.73e3	0.2500	1.000	4.41	4.29	10.0	40.0	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.33e4	1.33e4	0.2500	1.000	4.81	4.70	28.7	115	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-5.qld

Last Altered: Thursday, March 08, 2018 12:20:02 Pacific Standard Time

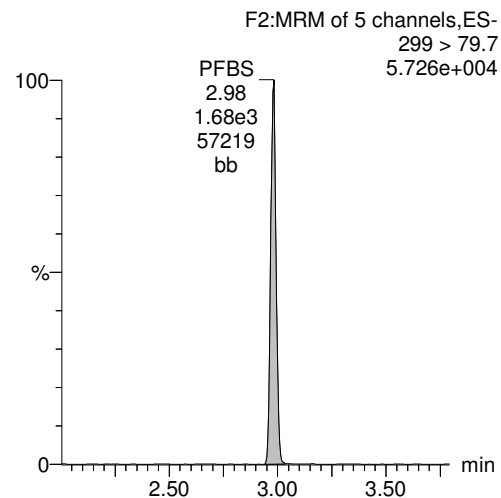
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Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

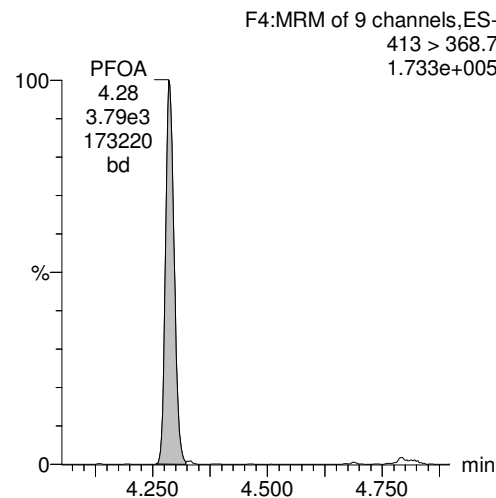
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180307G4_5, Date: 07-Mar-2018, Time: 18:43:29, ID: B8C0030-BS1 LFB 0.25, Description: LFB

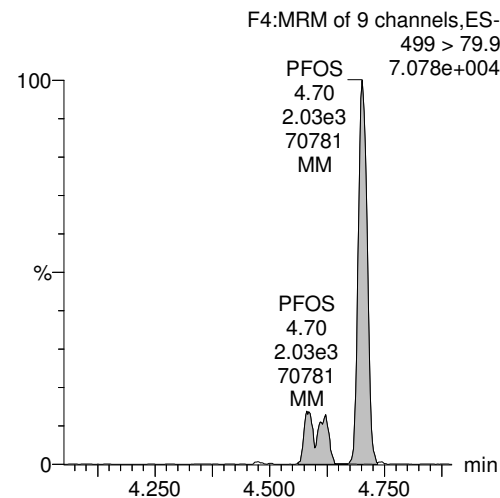
PFBS



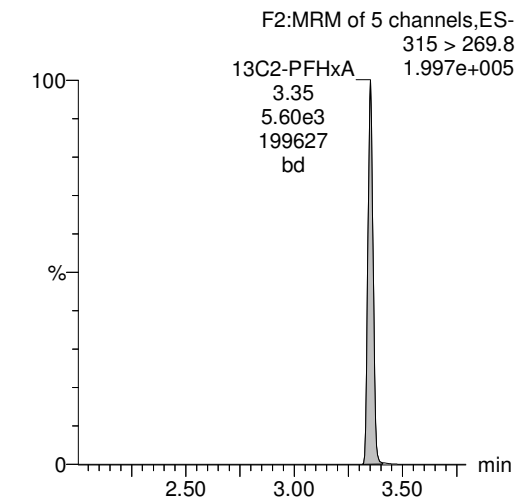
PFOA



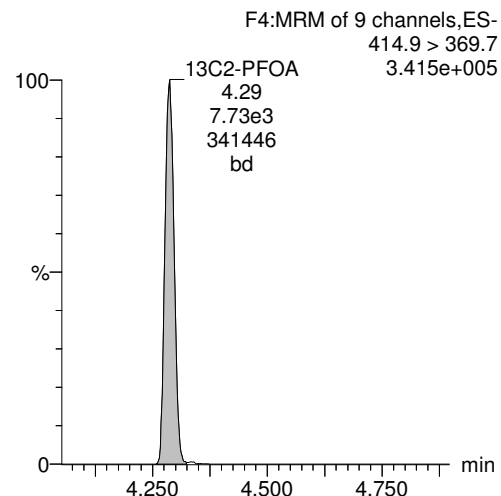
PFOS



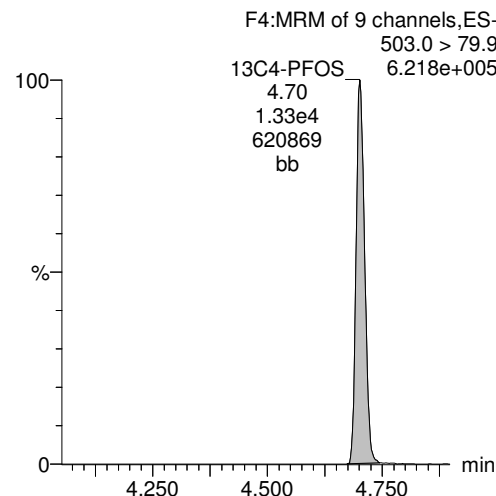
13C2-PFHxA



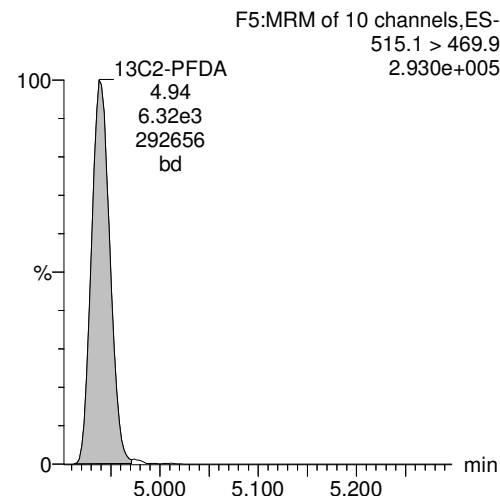
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-6.qld

Last Altered: Thursday, March 08, 2018 12:22:00 Pacific Standard Time

Printed: Sunday, March 11, 2018 10:23:15 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180307G4_6, Date: 07-Mar-2018, Time: 18:55:53, ID: B8C0030-BSD1 LFBD 0.25, Description: LFBD

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.85e3	1.48e4	0.2500		3.01	2.98	3.60	19.7	111.3
2	5 PFOA	413 > 368.7	4.21e3	8.86e3	0.2500		4.29	4.29	4.75	22.7	113.4
3	7 PFOS	499 >79.9	2.16e3	1.48e4	0.2500		4.70	4.70	4.20	17.5	94.5
4	15 13C2-PFHxA	315 > 269.8	6.39e3	8.86e3	0.2500	0.731	3.44	3.35	7.22	39.5	98.7
5	16 13C2-PFDA	515.1 > 469.9	7.34e3	8.86e3	0.2500	0.910	4.89	4.94	8.29	36.4	91.1
6	18 13C2-PFOA	414.9 > 369.7	8.86e3	8.86e3	0.2500	1.000	4.41	4.29	10.0	40.0	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.48e4	1.48e4	0.2500	1.000	4.81	4.70	28.7	115	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-6.qld

Last Altered: Thursday, March 08, 2018 12:22:00 Pacific Standard Time

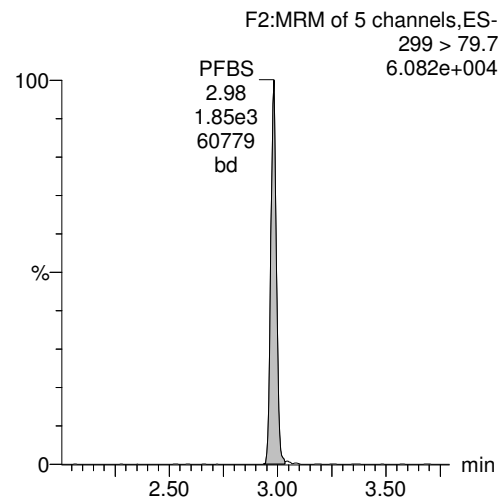
Printed: Sunday, March 11, 2018 10:23:15 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

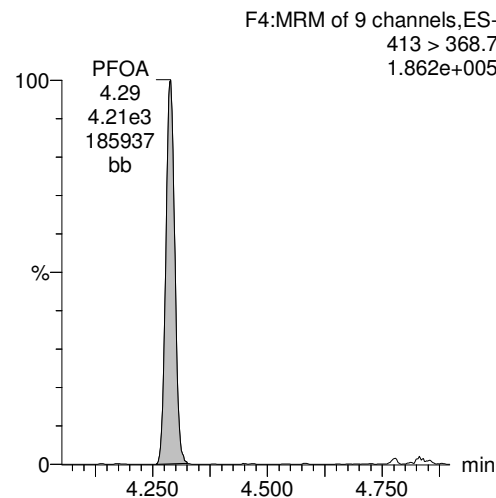
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180307G4_6, Date: 07-Mar-2018, Time: 18:55:53, ID: B8C0030-BSD1 LFBD 0.25, Description: LFBD

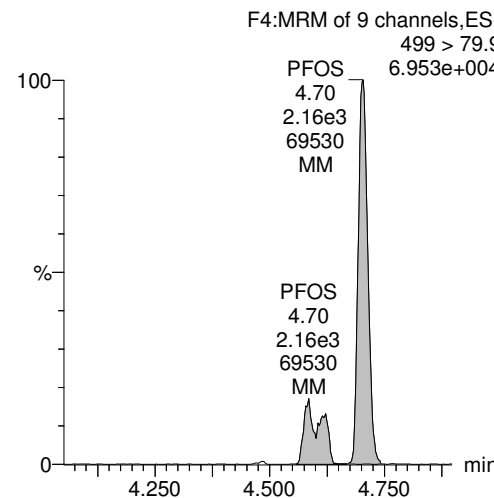
PFBS



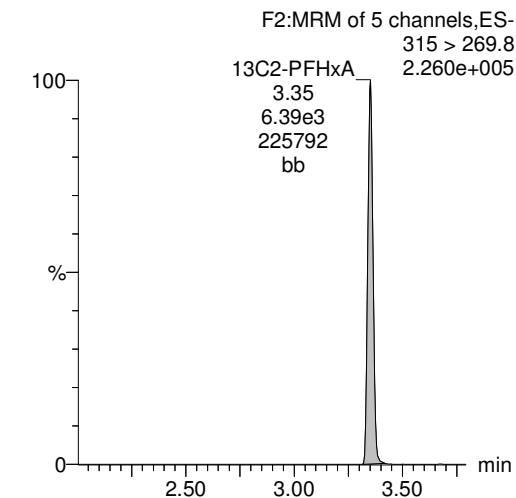
PFOA



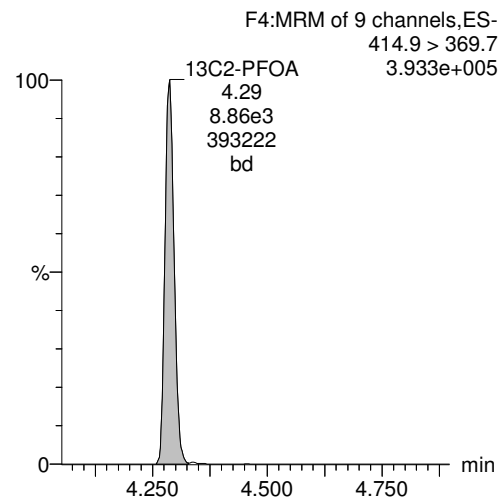
PFOS



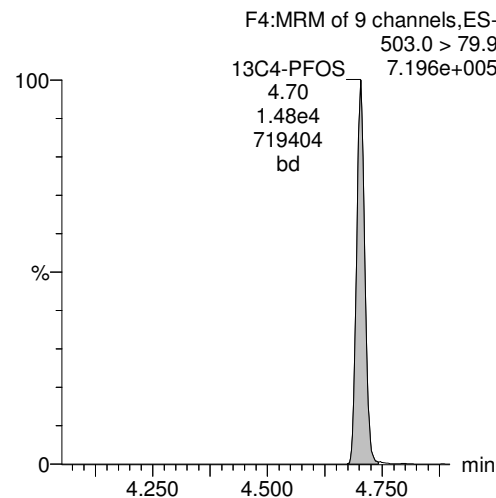
13C2-PFHxA



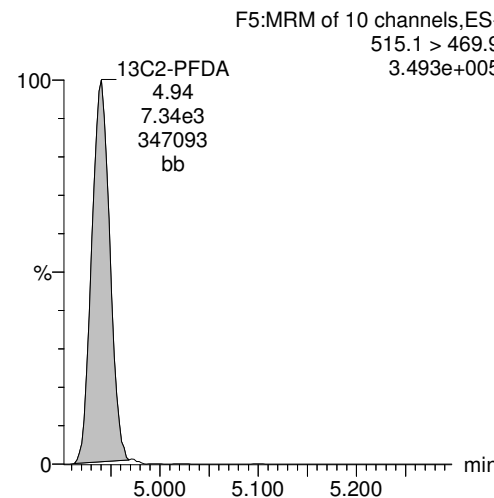
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-7.qld

Last Altered: Sunday, March 11, 2018 09:45:45 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:46:49 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_7, Date: 07-Mar-2018, Time: 19:08:18, ID: 1800405-01 CH-AT-1RW180-0218 0.25257, Description: CH-AT-1RW180-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	5.03e1	1.42e4	0.2526		3.01	2.98	0.102	0.552	
2	5 PFOA	413 > 368.7	1.91e2	8.40e3	0.2526		4.29	4.29	0.227	1.08	
3	7 PFOS	499 >79.9	8.75e0	1.42e4	0.2526		4.70	4.59	0.0177	0.0731	
4	15 13C2-PFHxA	315 > 269.8	5.72e3	8.40e3	0.2526	0.731	3.44	3.35	6.81	36.9	93.2
5	16 13C2-PFDA	515.1 > 469.9	6.24e3	8.40e3	0.2526	0.910	4.89	4.94	7.44	32.4	81.7
6	18 13C2-PFOA	414.9 > 369.7	8.40e3	8.40e3	0.2526	1.000	4.41	4.29	10.0	39.6	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.42e4	1.42e4	0.2526	1.000	4.81	4.70	28.7	114	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-7.qld

Last Altered: Sunday, March 11, 2018 09:45:45 Pacific Daylight Time

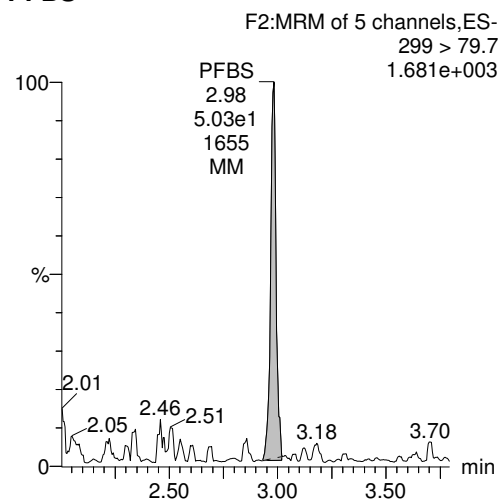
Printed: Sunday, March 11, 2018 09:46:49 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

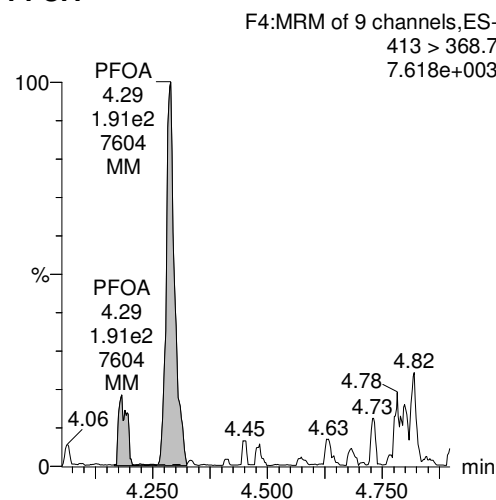
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_7, Date: 07-Mar-2018, Time: 19:08:18, ID: 1800405-01 CH-AT-1RW180-0218 0.25257, Description: CH-AT-1RW180-0218

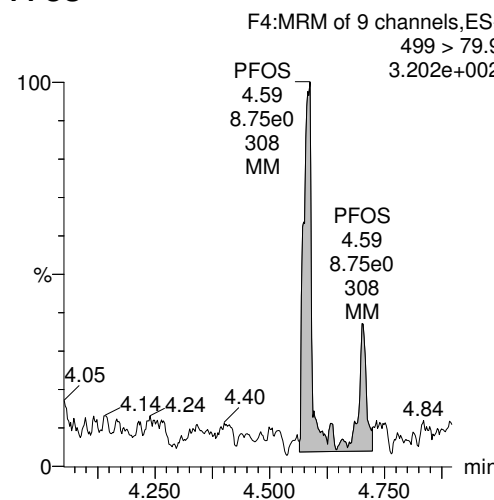
PFBS



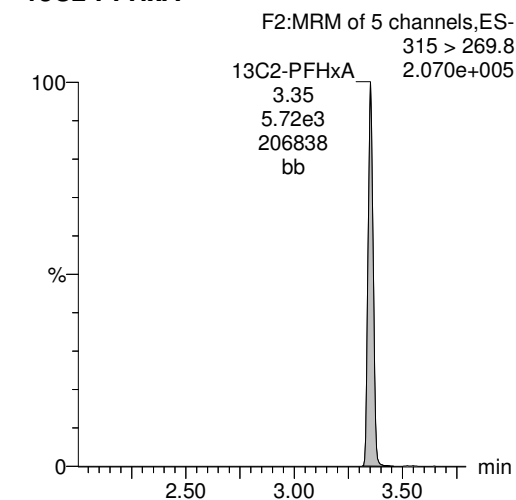
PFOA



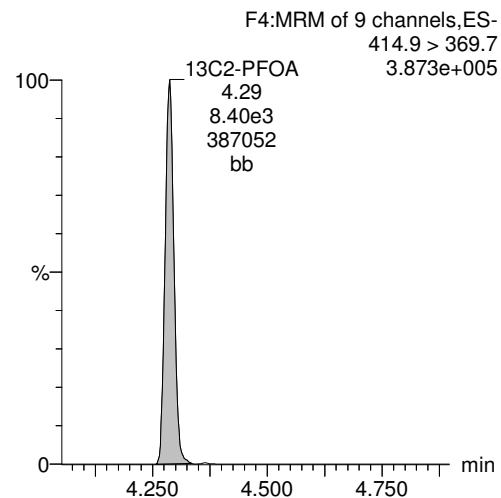
PFOS



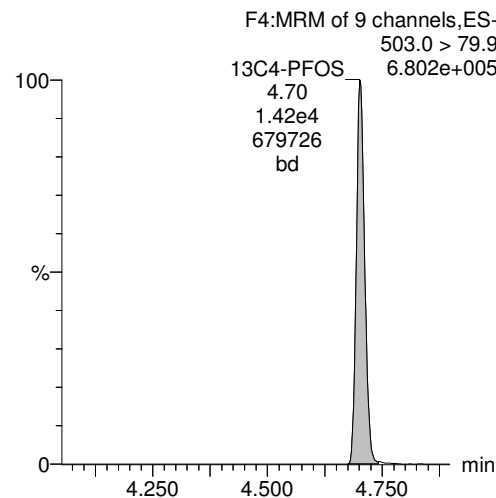
13C2-PFHxA



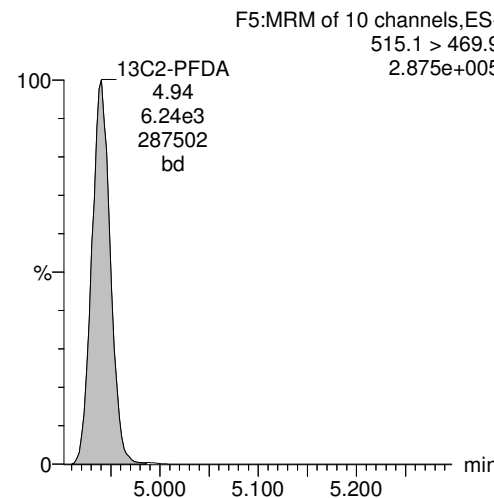
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-8.qld

Last Altered: Sunday, March 11, 2018 09:48:52 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:50:05 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_8, Date: 07-Mar-2018, Time: 19:20:44, ID: 1800405-02 CH-AT-1FB180-0218 0.25711, Description: CH-AT-1FB180-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.50e4	0.2571		3.01				
2	5 PFOA	413 > 368.7	7.26e1	8.37e3	0.2571		4.29	4.30	0.0868	0.403	
3	7 PFOS	499 >79.9	6.35e-1	1.50e4	0.2571		4.71	4.71	0.00122	0.00492	
4	15 13C2-PFHxA	315 > 269.8	5.61e3	8.37e3	0.2571	0.731	3.44	3.35	6.70	35.6	91.6
5	16 13C2-PFDA	515.1 > 469.9	7.08e3	8.37e3	0.2571	0.910	4.89	4.94	8.46	36.2	93.0
6	18 13C2-PFOA	414.9 > 369.7	8.37e3	8.37e3	0.2571	1.000	4.41	4.29	10.0	38.9	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.50e4	1.50e4	0.2571	1.000	4.81	4.71	28.7	112	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-8.qld

Last Altered: Sunday, March 11, 2018 09:48:52 Pacific Daylight Time

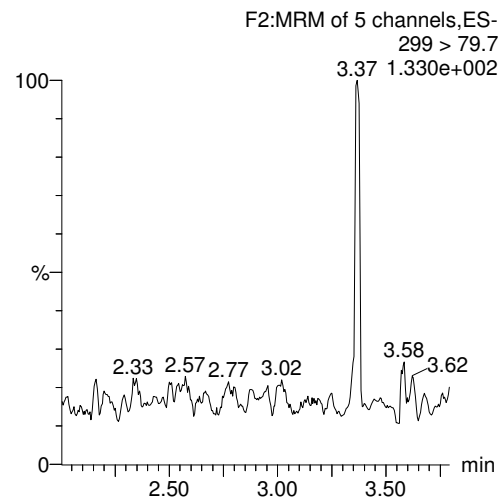
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Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

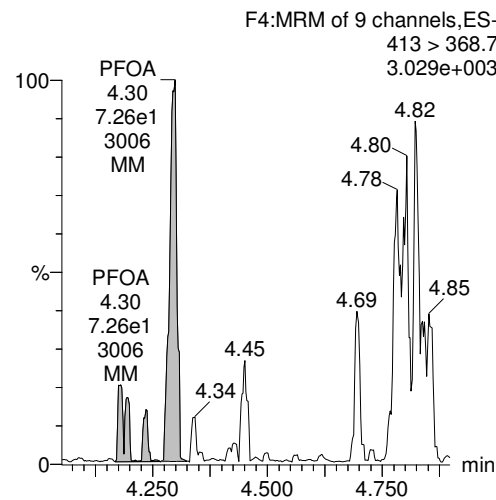
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_8, Date: 07-Mar-2018, Time: 19:20:44, ID: 1800405-02 CH-AT-1FB180-0218 0.25711, Description: CH-AT-1FB180-0218

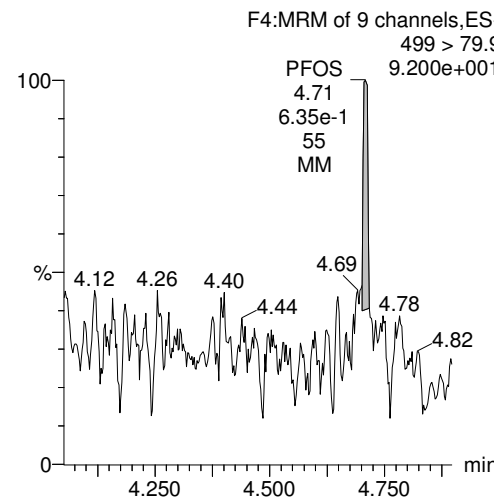
PFBS



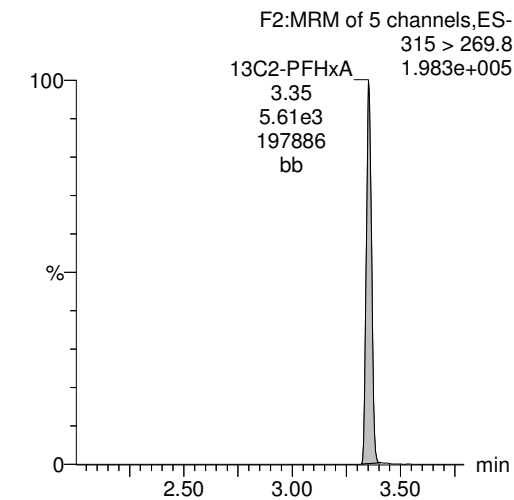
PFOA



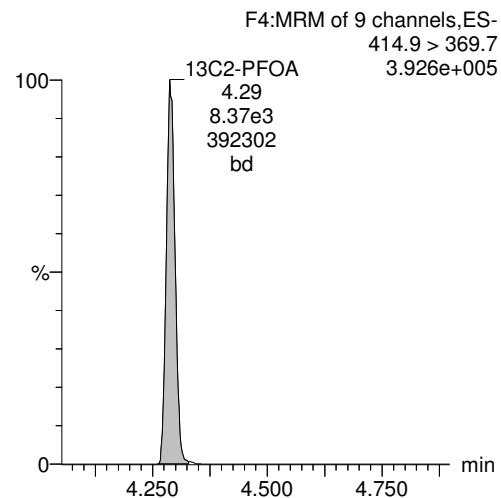
PFOS



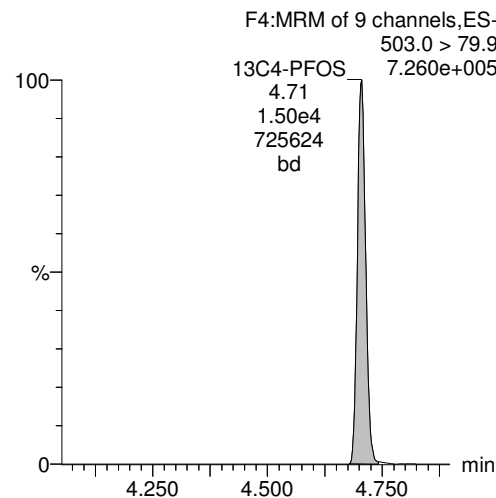
13C2-PFHxA



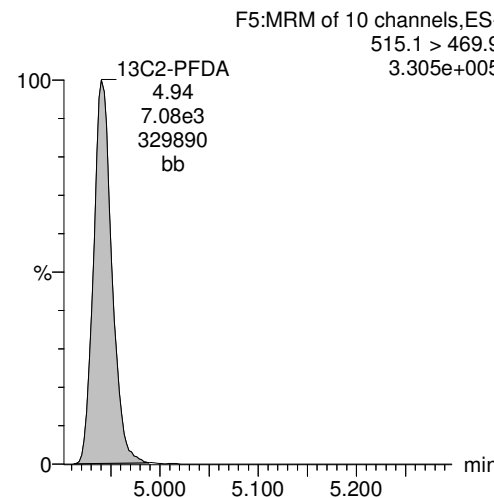
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-9.qld

Last Altered: Sunday, March 11, 2018 09:51:21 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:52:11 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_9, Date: 07-Mar-2018, Time: 19:33:09, ID: 1800405-03 CH-AT-1RW181-0218 0.25108, Description: CH-AT-1RW181-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.42e4	0.2511		3.01				
2	5 PFOA	413 > 368.7	1.36e2	8.02e3	0.2511		4.28	4.29	0.170	0.807	
3	7 PFOS	499 >79.9	1.39e0	1.42e4	0.2511		4.70	4.70	0.00283	0.0117	
4	15 13C2-PFHxA	315 > 269.8	5.23e3	8.02e3	0.2511	0.731	3.44	3.35	6.51	35.5	89.1
5	16 13C2-PFDA	515.1 > 469.9	7.12e3	8.02e3	0.2511	0.910	4.88	4.94	8.88	38.9	97.6
6	18 13C2-PFOA	414.9 > 369.7	8.02e3	8.02e3	0.2511	1.000	4.41	4.28	10.0	39.8	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.42e4	1.42e4	0.2511	1.000	4.81	4.70	28.7	114	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-9.qld

Last Altered: Sunday, March 11, 2018 09:51:21 Pacific Daylight Time

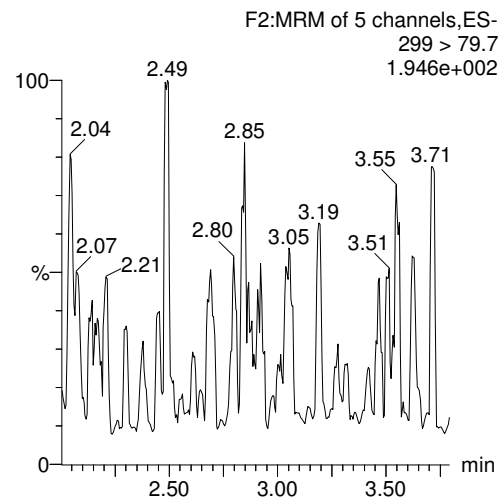
Printed: Sunday, March 11, 2018 09:52:11 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

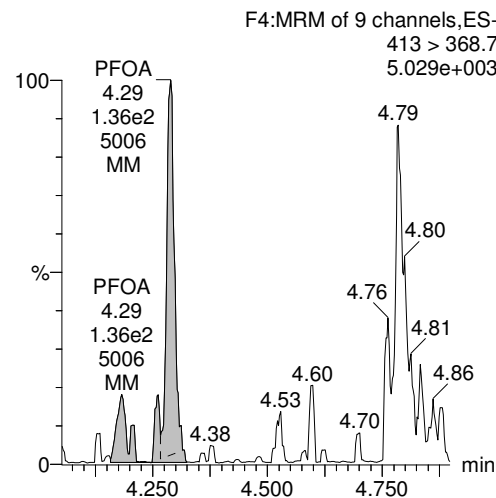
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_9, Date: 07-Mar-2018, Time: 19:33:09, ID: 1800405-03 CH-AT-1RW181-0218 0.25108, Description: CH-AT-1RW181-0218

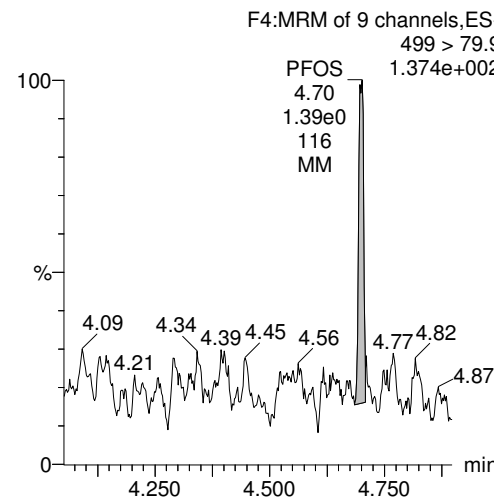
PFBS



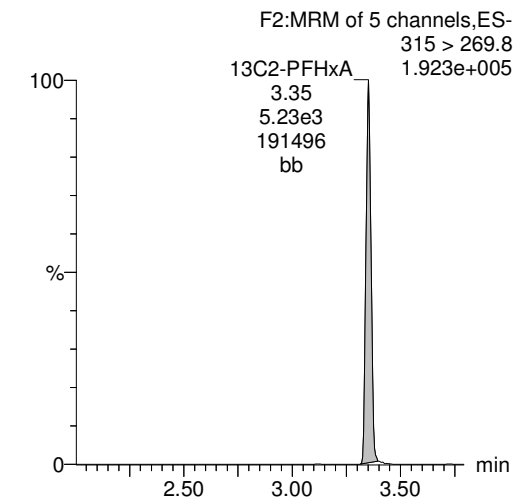
PFOA



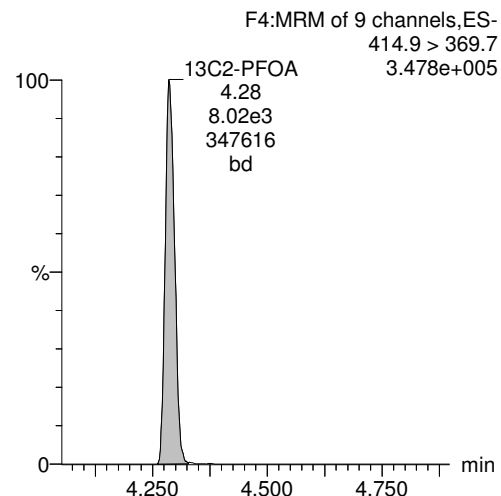
PFOS



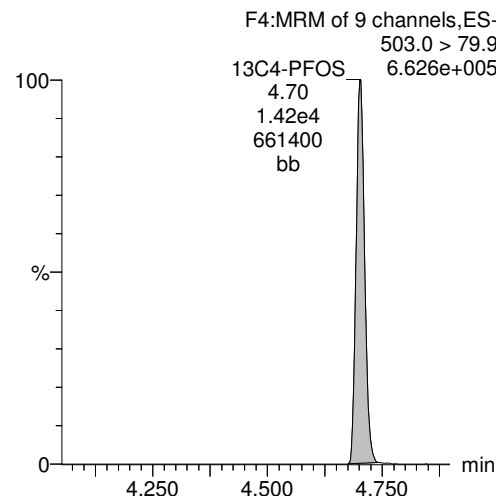
13C2-PFHxA



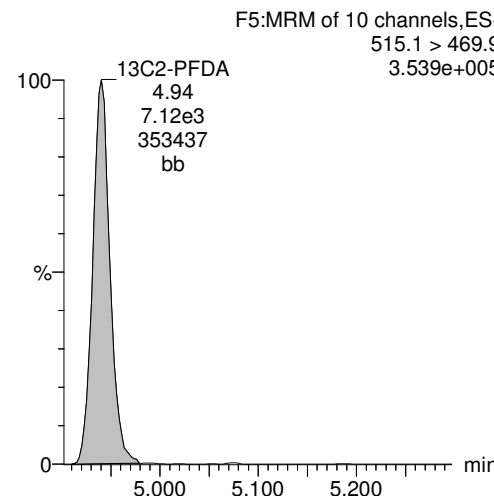
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_14.qld

Last Altered: Sunday, March 11, 2018 09:12:40 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:12:53 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_14, Date: 08-Mar-2018, Time: 20:32:02, ID: 1800405-04 CH-AT-1FB181-0218 0.25861, Description: CH-AT-1FB181-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	3.42e0	1.51e4	0.2586		2.99	2.99	0.00648	0.0350	
2	5 PFOA	413 > 368.7	1.29e2	6.90e3	0.2586		4.27	4.27	0.188	0.801	
3	7 PFOS	499 >79.9		1.51e4	0.2586		4.68				
4	15 13C2-PFHxA	315 > 269.8	5.26e3	6.90e3	0.2586	0.810	3.42	3.33	7.63	36.4	94.2
5	16 13C2-PFDA	515.1 > 469.9	6.29e3	6.90e3	0.2586	1.057	4.87	4.92	9.12	33.4	86.3
6	18 13C2-PFOA	414.9 > 369.7	6.90e3	6.90e3	0.2586	1.000	4.41	4.27	10.0	38.7	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.51e4	1.51e4	0.2586	1.000	4.81	4.68	28.7	111	100.0

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_14.qld

Last Altered: Sunday, March 11, 2018 09:12:40 Pacific Daylight Time

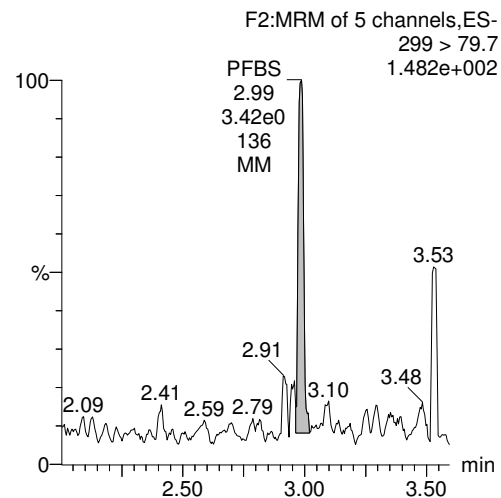
Printed: Sunday, March 11, 2018 09:12:53 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

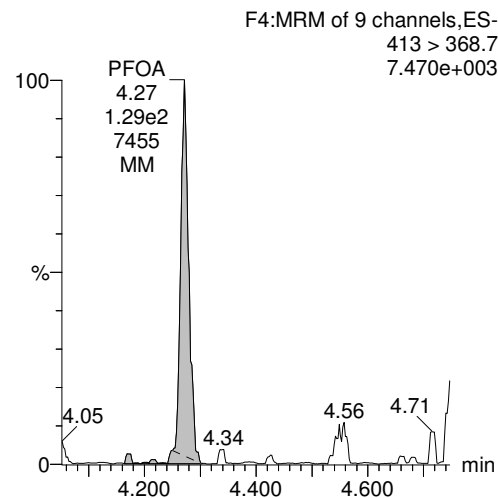
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_14, Date: 08-Mar-2018, Time: 20:32:02, ID: 1800405-04 CH-AT-1FB181-0218 0.25861, Description: CH-AT-1FB181-0218

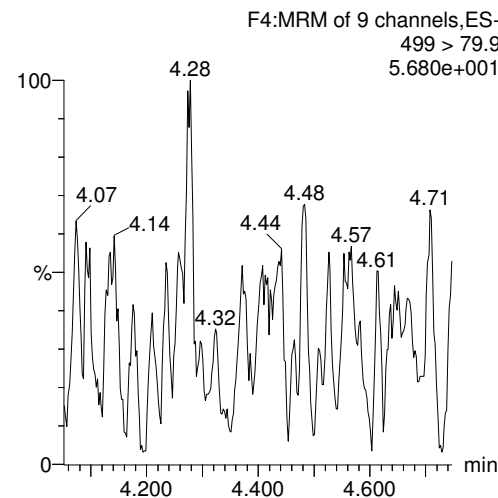
PFBS



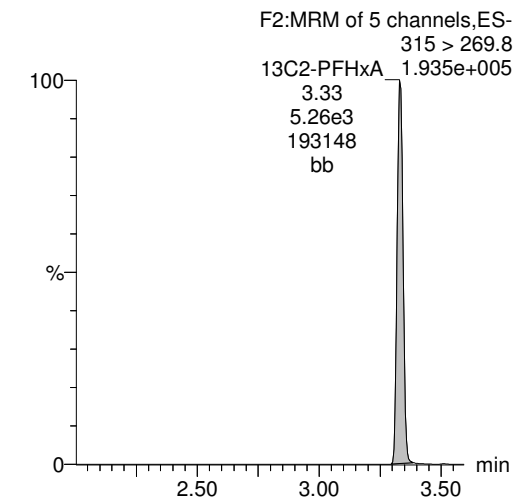
PFOA



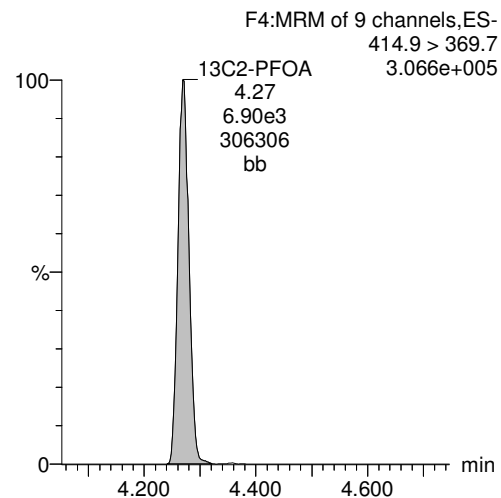
PFOS



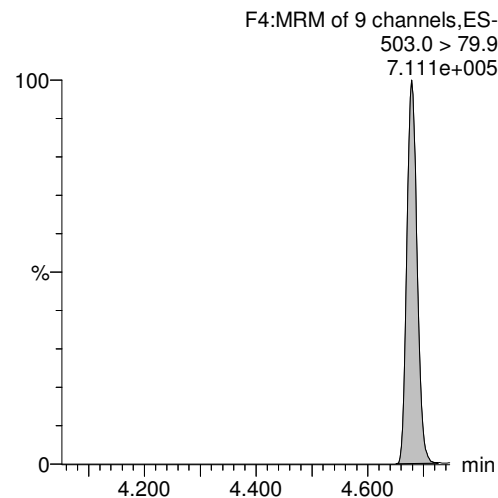
13C2-PFHxA



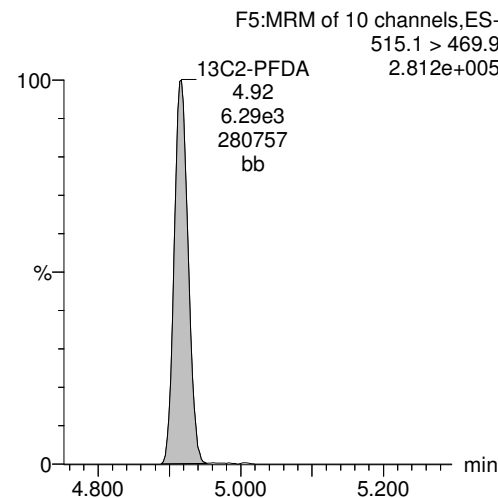
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-11.qld

Last Altered: Sunday, March 11, 2018 09:53:17 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:53:42 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_11, Date: 07-Mar-2018, Time: 19:57:55, ID: 1800405-05 CH-AT-1RW182-0218 0.25074, Description: CH-AT-1RW182-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.38e4	0.2507		3.01				
2	5 PFOA	413 > 368.7	5.14e1	7.85e3	0.2507		4.29	4.29	0.0655	0.312	
3	7 PFOS	499 >79.9		1.38e4	0.2507		4.70				
4	15 13C2-PFHxA	315 > 269.8	5.67e3	7.85e3	0.2507	0.731	3.44	3.35	7.23	39.4	98.9
5	16 13C2-PFDA	515.1 > 469.9	6.44e3	7.85e3	0.2507	0.910	4.89	4.94	8.21	36.0	90.2
6	18 13C2-PFOA	414.9 > 369.7	7.85e3	7.85e3	0.2507	1.000	4.41	4.29	10.0	39.9	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.38e4	1.38e4	0.2507	1.000	4.81	4.70	28.7	114	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-11.qld

Last Altered: Sunday, March 11, 2018 09:53:17 Pacific Daylight Time

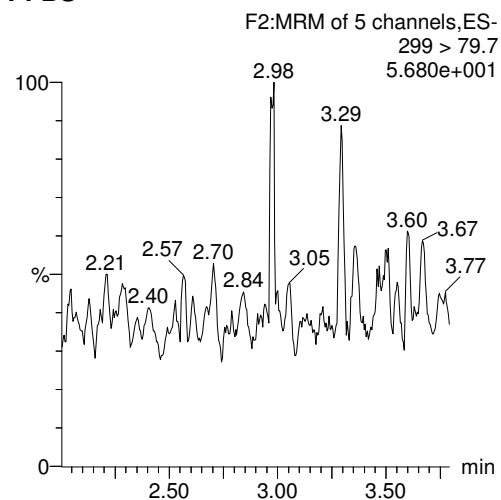
Printed: Sunday, March 11, 2018 09:53:42 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

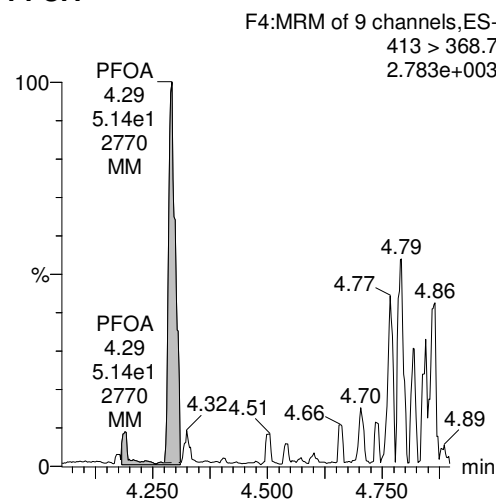
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_11, Date: 07-Mar-2018, Time: 19:57:55, ID: 1800405-05 CH-AT-1RW182-0218 0.25074, Description: CH-AT-1RW182-0218

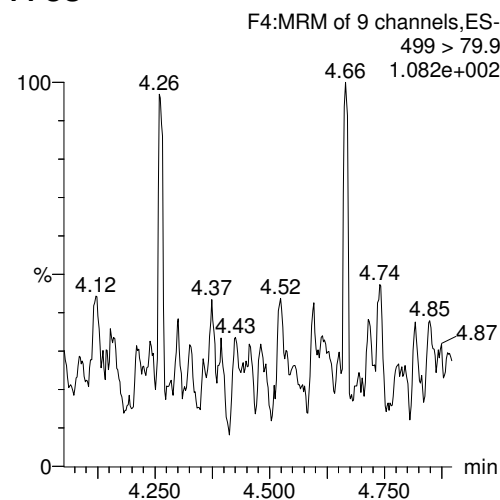
PFBS



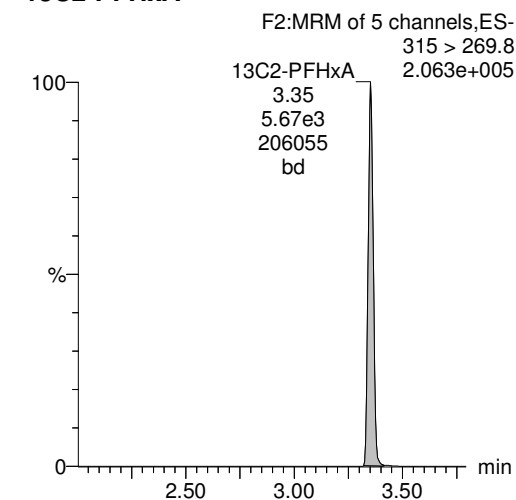
PFOA



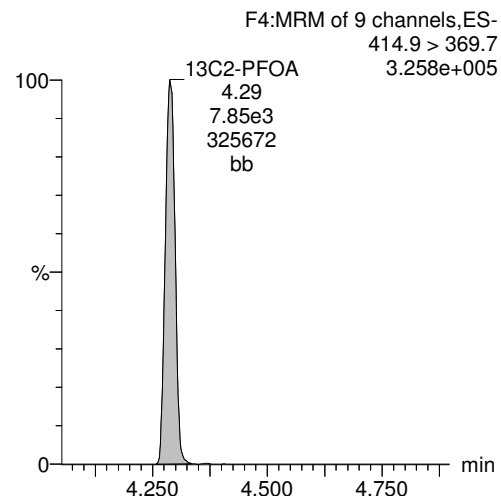
PFOS



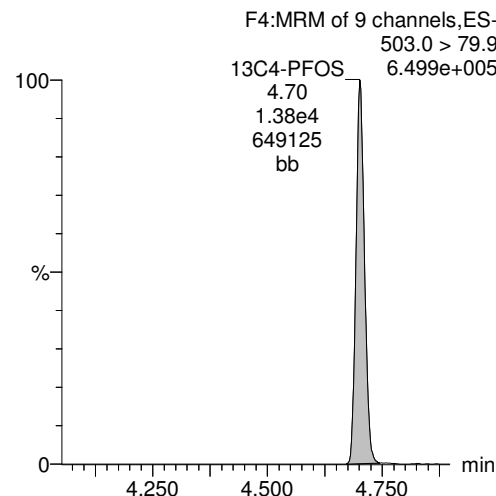
13C2-PFHxA



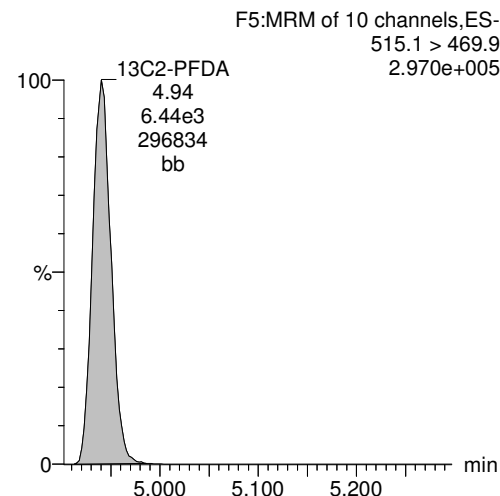
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-12.qld

Last Altered: Sunday, March 11, 2018 09:55:07 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:55:35 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_12, Date: 07-Mar-2018, Time: 20:10:20, ID: 1800405-06 CH-AT-1FB182-0218 0.26155, Description: CH-AT-1FB182-0218

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.47e4	0.2616		3.01				
2	5 PFOA	413 > 368.7	1.14e2	8.49e3	0.2616		4.28	4.29	0.134	0.612	
3	7 PFOS	499 >79.9		1.47e4	0.2616		4.70				
4	15 13C2-PFHxA	315 > 269.8	5.91e3	8.49e3	0.2616	0.731	3.44	3.35	6.96	36.4	95.1
5	16 13C2-PFDA	515.1 > 469.9	7.02e3	8.49e3	0.2616	0.910	4.88	4.94	8.27	34.7	90.9
6	18 13C2-PFOA	414.9 > 369.7	8.49e3	8.49e3	0.2616	1.000	4.41	4.28	10.0	38.2	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.47e4	1.47e4	0.2616	1.000	4.81	4.70	28.7	110	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-12.qld

Last Altered: Sunday, March 11, 2018 09:55:07 Pacific Daylight Time

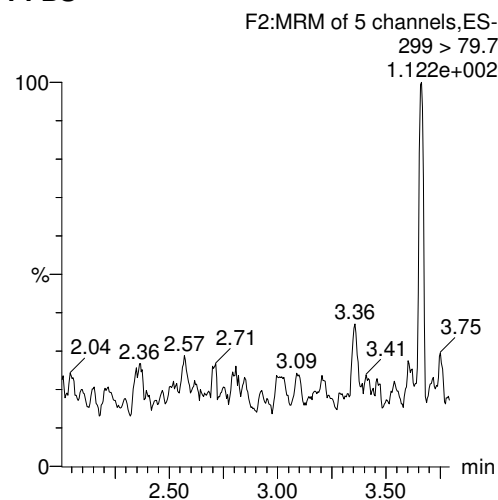
Printed: Sunday, March 11, 2018 09:55:35 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

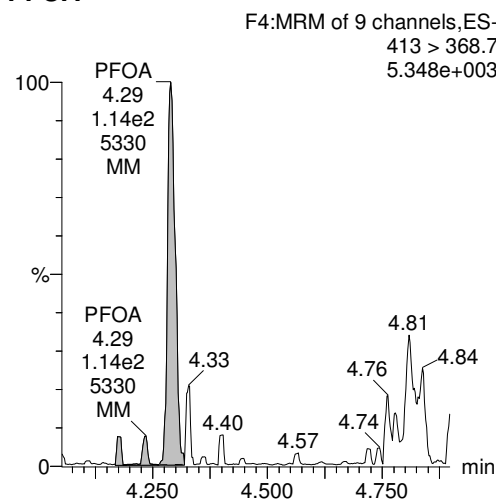
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_12, Date: 07-Mar-2018, Time: 20:10:20, ID: 1800405-06 CH-AT-1FB182-0218 0.26155, Description: CH-AT-1FB182-0218

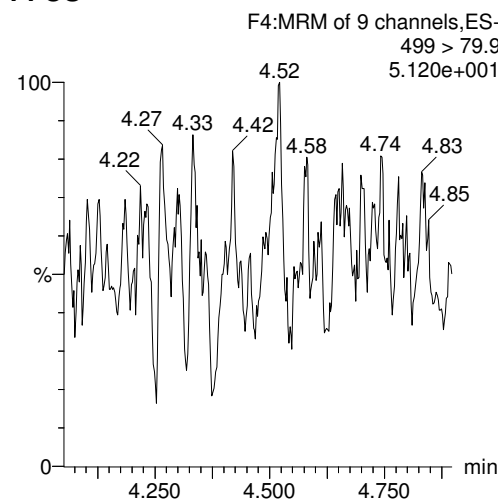
PFBS



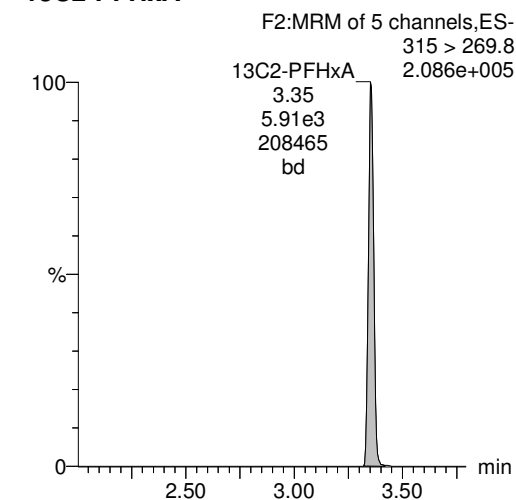
PFOA



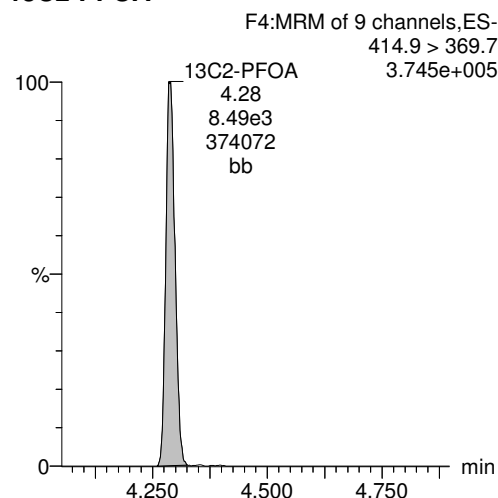
PFOS



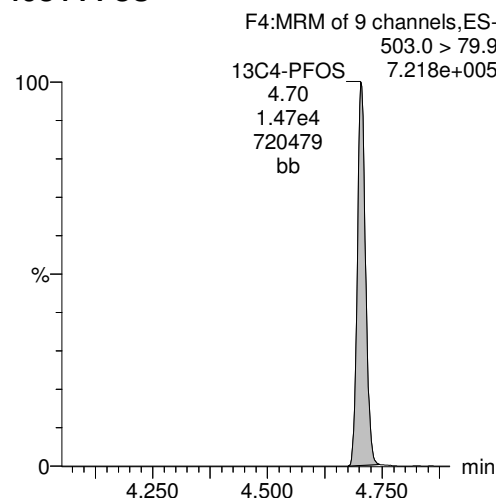
13C2-PFHxA



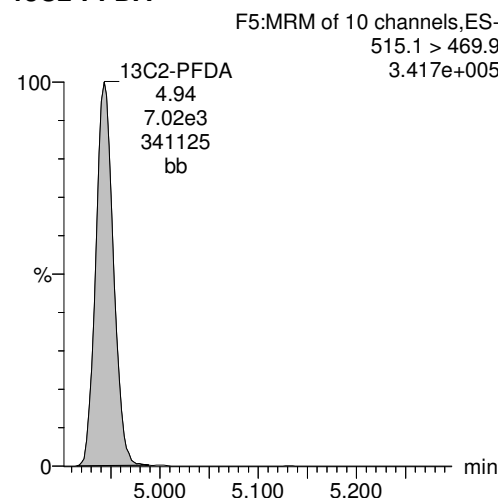
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_15.qld

Last Altered: Sunday, March 11, 2018 09:14:19 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:14:52 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_15, Date: 08-Mar-2018, Time: 20:44:24, ID: 1800405-07 CH-AT-1RW183-0218 0.25302, Description: CH-AT-1RW183-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.44e4	0.2530		2.99				
2	5 PFOA	413 > 368.7	1.08e2	6.79e3	0.2530		4.27	4.27	0.160	0.696	
3	7 PFOS	499 >79.9		1.44e4	0.2530		4.68				
4	15 13C2-PFHxA	315 > 269.8	4.98e3	6.79e3	0.2530	0.810	3.42	3.33	7.34	35.8	90.6
5	16 13C2-PFDA	515.1 > 469.9	6.49e3	6.79e3	0.2530	1.057	4.87	4.91	9.56	35.8	90.5
6	18 13C2-PFOA	414.9 > 369.7	6.79e3	6.79e3	0.2530	1.000	4.41	4.27	10.0	39.5	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.44e4	1.44e4	0.2530	1.000	4.81	4.68	28.7	113	100.0

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_15.qld

Last Altered: Sunday, March 11, 2018 09:14:19 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:14:52 Pacific Daylight Time

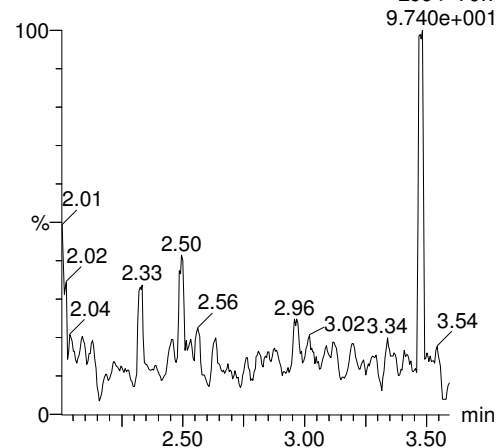
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_15, Date: 08-Mar-2018, Time: 20:44:24, ID: 1800405-07 CH-AT-1RW183-0218 0.25302, Description: CH-AT-1RW183-0218

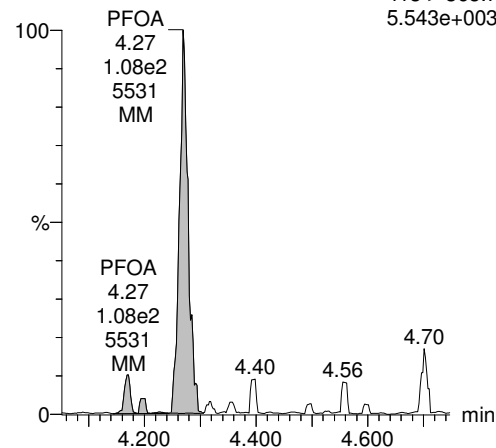
PFBS

F2:MRM of 5 channels,ES-
299 > 79.7
9.740e+001



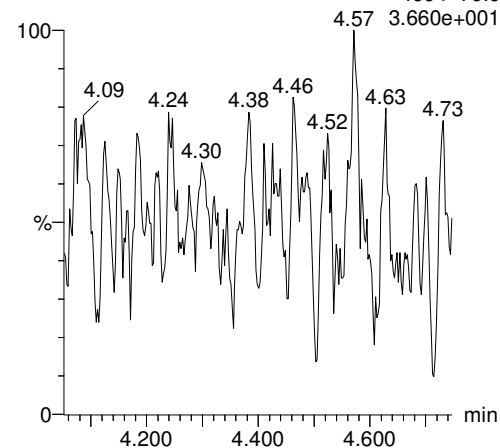
PFOA

F4:MRM of 9 channels,ES-
413 > 368.7
5.543e+003



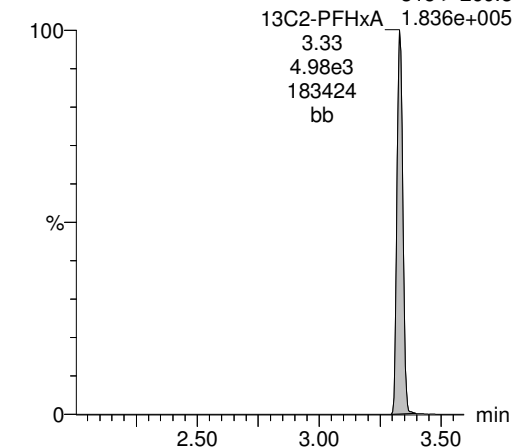
PFOS

F4:MRM of 9 channels,ES-
499 > 79.9
3.660e+001



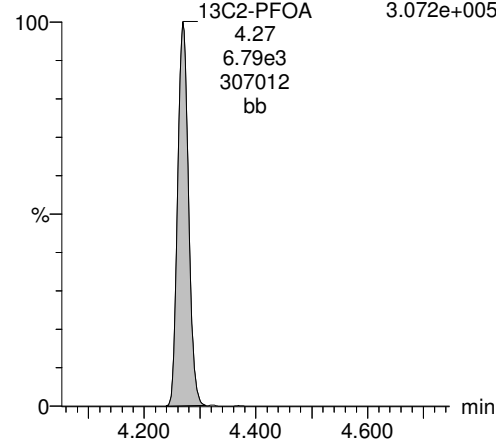
13C2-PFHxA

F2:MRM of 5 channels,ES-
315 > 269.8
1.836e+005



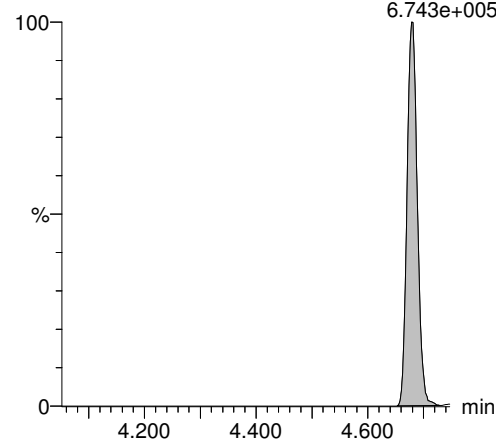
13C2-PFOA

F4:MRM of 9 channels,ES-
414.9 > 369.7
3.072e+005



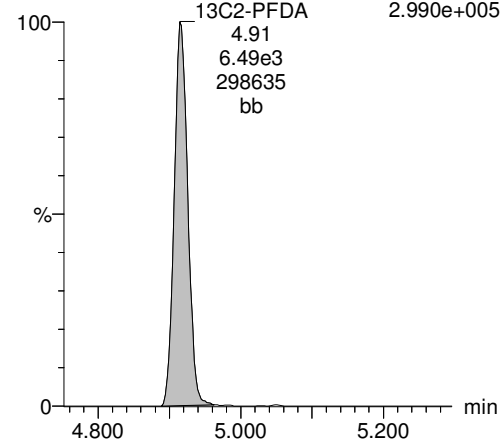
13C4-PFOS

F4:MRM of 9 channels,ES-
503.0 > 79.9
6.743e+005



13C2-PFDA

F5:MRM of 10 channels,ES-
515.1 > 469.9
2.990e+005



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-14.qld

Last Altered: Sunday, March 11, 2018 09:56:21 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:56:59 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_14, Date: 07-Mar-2018, Time: 20:35:02, ID: 1800405-08 CH-AT-1FB183-0218 0.25504, Description: CH-AT-1FB183-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.42e4	0.2550		3.01				
2	5 PFOA	413 > 368.7	6.57e1	9.16e3	0.2550		4.29	4.28	0.0717	0.336	
3	7 PFOS	499 >79.9		1.42e4	0.2550		4.70				
4	15 13C2-PFHxA	315 > 269.8	6.04e3	9.16e3	0.2550	0.731	3.44	3.35	6.59	35.3	90.1
5	16 13C2-PFDA	515.1 > 469.9	6.70e3	9.16e3	0.2550	0.910	4.89	4.94	7.31	31.5	80.4
6	18 13C2-PFOA	414.9 > 369.7	9.16e3	9.16e3	0.2550	1.000	4.41	4.29	10.0	39.2	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.42e4	1.42e4	0.2550	1.000	4.81	4.70	28.7	113	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-14.qld

Last Altered: Sunday, March 11, 2018 09:56:21 Pacific Daylight Time

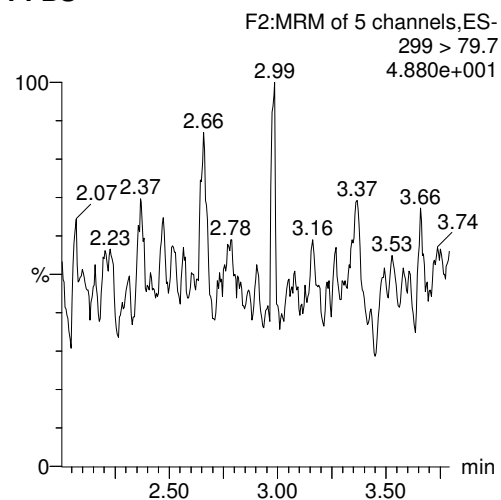
Printed: Sunday, March 11, 2018 09:56:59 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

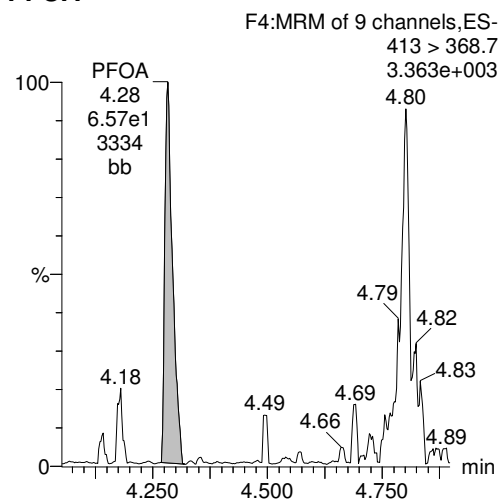
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_14, Date: 07-Mar-2018, Time: 20:35:02, ID: 1800405-08 CH-AT-1FB183-0218 0.25504, Description: CH-AT-1FB183-0218

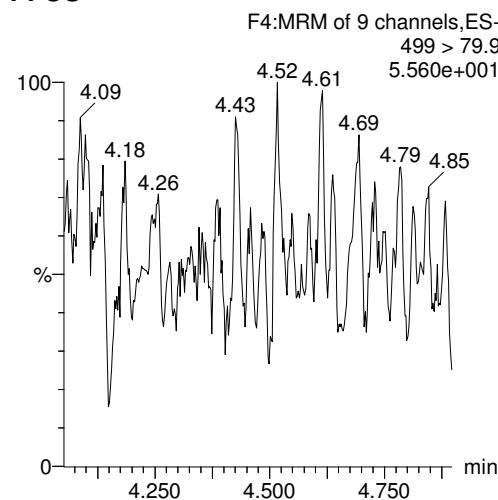
PFBS



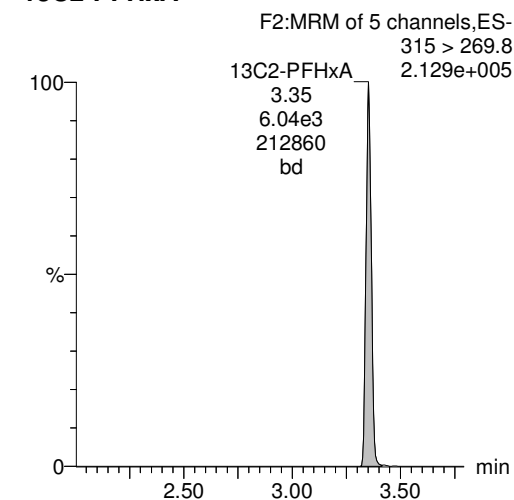
PFOA



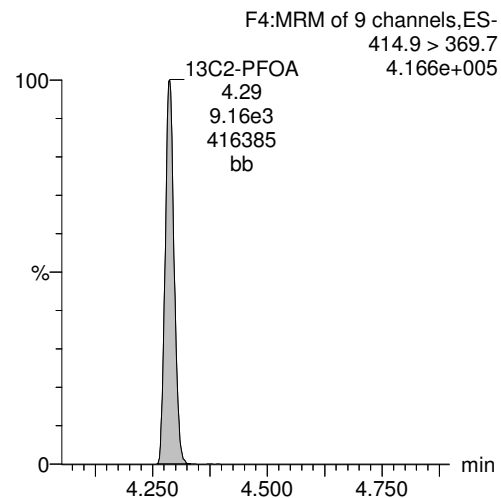
PFOS



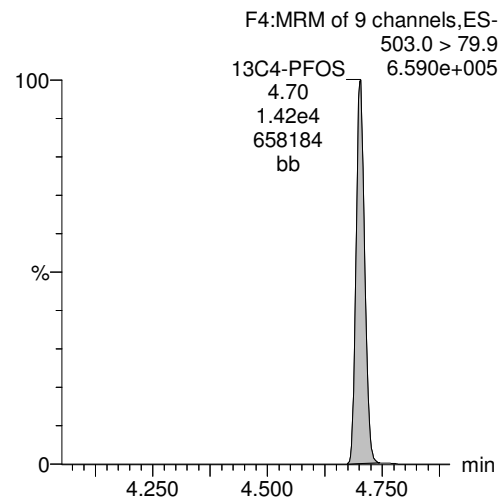
13C2-PFHxA



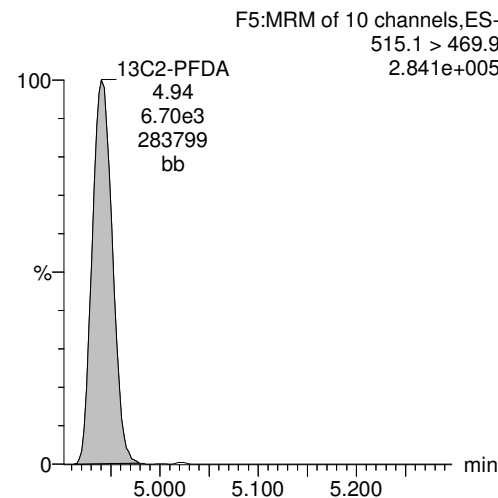
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-15.qld

Last Altered: Sunday, March 11, 2018 10:02:13 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:02:35 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_15, Date: 07-Mar-2018, Time: 20:47:27, ID: 1800405-09 CH-AT-1RW184-0218 0.25531, Description: CH-AT-1RW184-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.39e4	0.2553		3.01				
2	5 PFOA	413 > 368.7	1.34e2	8.29e3	0.2553		4.29	4.28	0.162	0.757	
3	7 PFOS	499 >79.9		1.39e4	0.2553		4.70				
4	15 13C2-PFHxA	315 > 269.8	5.64e3	8.29e3	0.2553	0.731	3.44	3.35	6.81	36.5	93.1
5	16 13C2-PFDA	515.1 > 469.9	6.66e3	8.29e3	0.2553	0.910	4.89	4.94	8.03	34.6	88.3
6	18 13C2-PFOA	414.9 > 369.7	8.29e3	8.29e3	0.2553	1.000	4.41	4.29	10.0	39.2	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.39e4	1.39e4	0.2553	1.000	4.81	4.70	28.7	112	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-15.qld

Last Altered: Sunday, March 11, 2018 10:02:13 Pacific Daylight Time

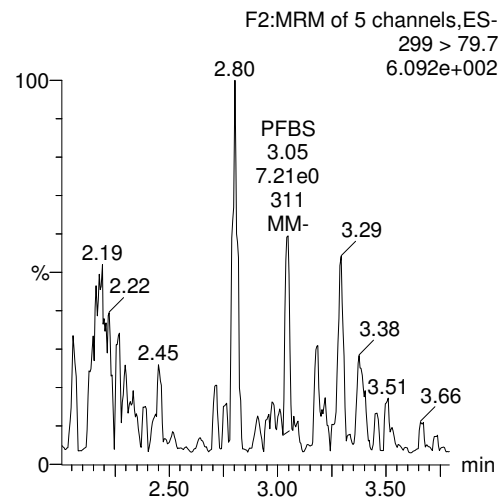
Printed: Sunday, March 11, 2018 10:02:35 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

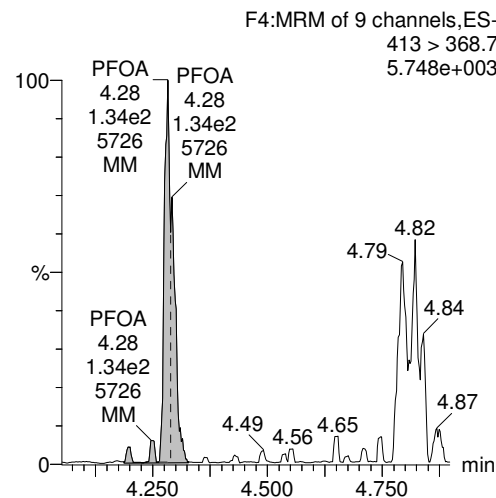
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_15, Date: 07-Mar-2018, Time: 20:47:27, ID: 1800405-09 CH-AT-1RW184-0218 0.25531, Description: CH-AT-1RW184-0218

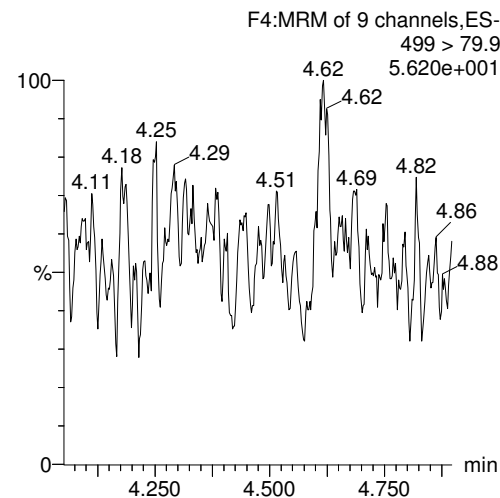
PFBS



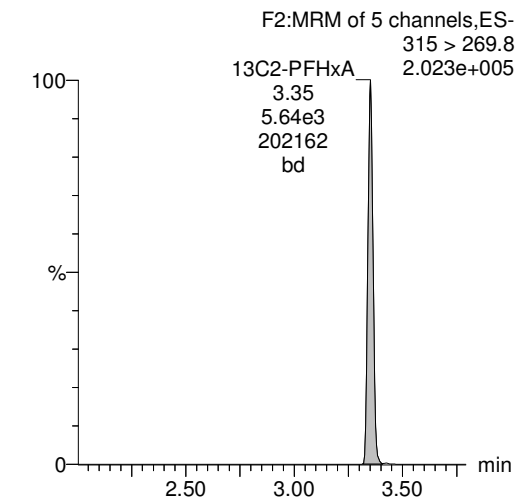
PFOA



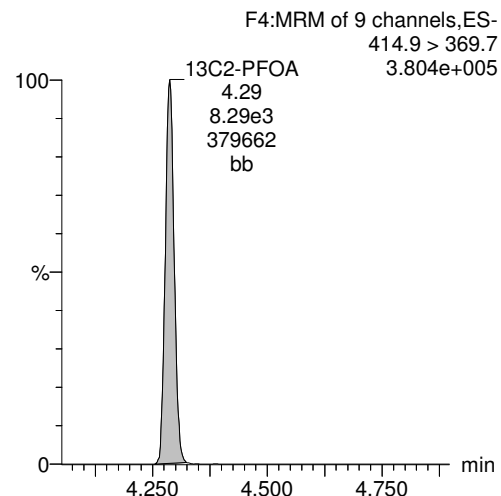
PFOS



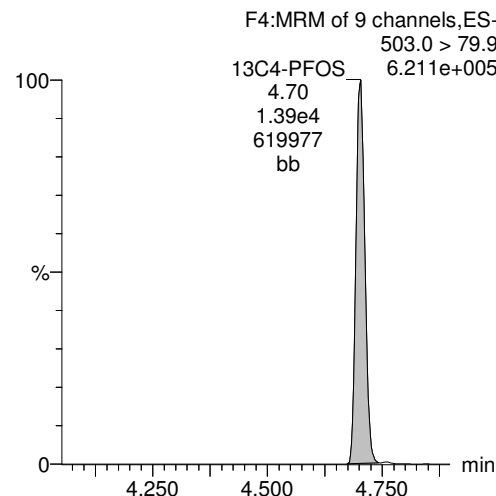
13C2-PFHxA



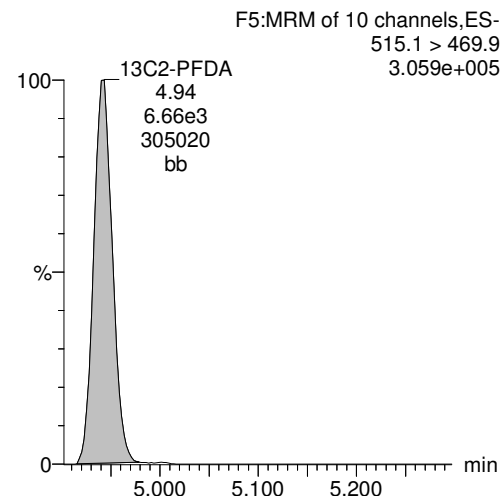
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-16.qld

Last Altered: Sunday, March 11, 2018 10:03:55 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:04:38 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_16, Date: 07-Mar-2018, Time: 20:59:53, ID: 1800405-10 CH-AT-1FB184-0218 0.25579, Description: CH-AT-1FB184-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.48e4	0.2558		3.01				
2	5 PFOA	413 > 368.7	1.06e2	9.68e3	0.2558		4.29	4.29	0.110	0.512	
3	7 PFOS	499 >79.9		1.48e4	0.2558		4.70				
4	15 13C2-PFHxA	315 > 269.8	6.44e3	9.68e3	0.2558	0.731	3.44	3.35	6.66	35.6	91.0
5	16 13C2-PFDA	515.1 > 469.9	6.32e3	9.68e3	0.2558	0.910	4.89	4.94	6.53	28.0	71.7
6	18 13C2-PFOA	414.9 > 369.7	9.68e3	9.68e3	0.2558	1.000	4.41	4.29	10.0	39.1	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.48e4	1.48e4	0.2558	1.000	4.81	4.70	28.7	112	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-16.qld

Last Altered: Sunday, March 11, 2018 10:03:55 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:04:38 Pacific Daylight Time

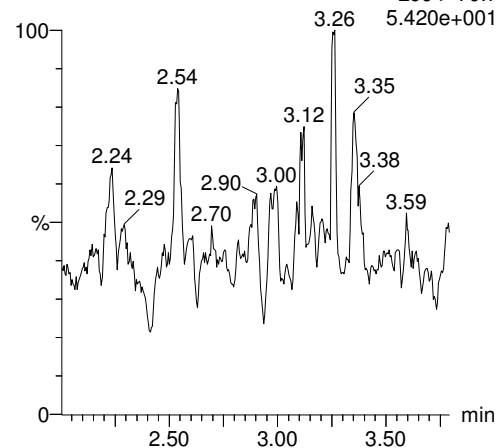
Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_16, Date: 07-Mar-2018, Time: 20:59:53, ID: 1800405-10 CH-AT-1FB184-0218 0.25579, Description: CH-AT-1FB184-0218

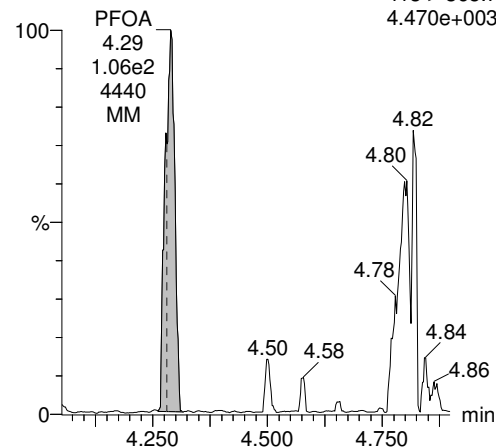
PFBS

F2:MRM of 5 channels,ES-
299 > 79.7
5.420e+001



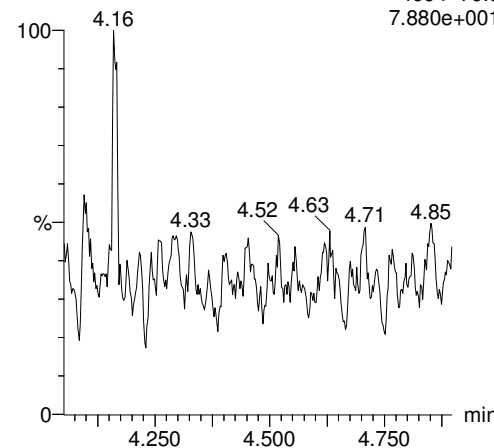
PFOA

F4:MRM of 9 channels,ES-
413 > 368.7
4.470e+003



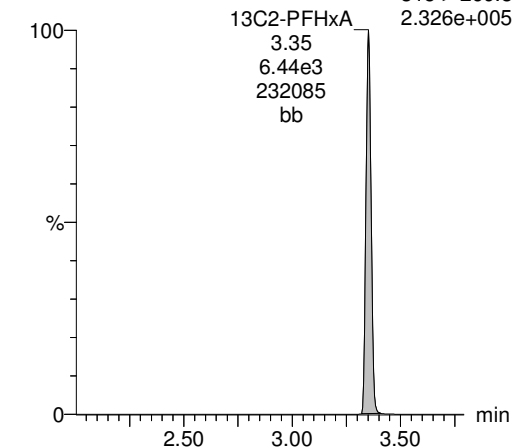
PFOS

F4:MRM of 9 channels,ES-
499 > 79.9
7.880e+001



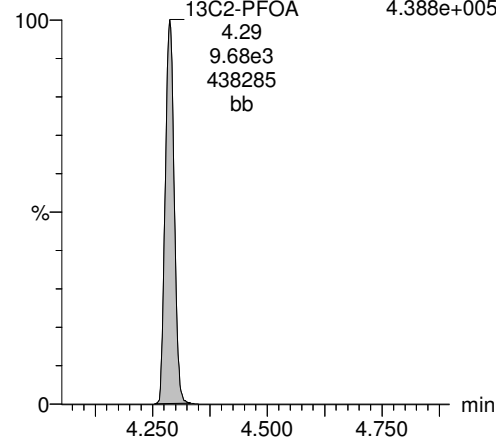
13C2-PFHxA

F2:MRM of 5 channels,ES-
315 > 269.8
2.326e+005



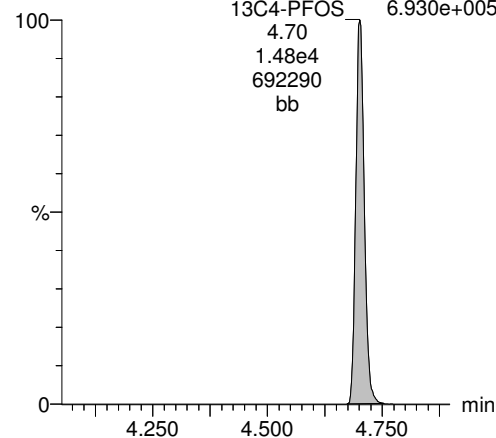
13C2-PFOA

F4:MRM of 9 channels,ES-
414.9 > 369.7
4.388e+005



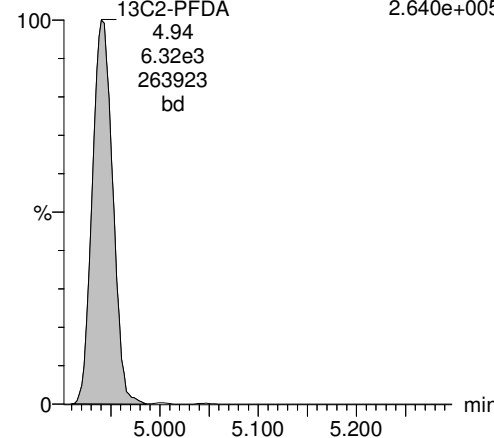
13C4-PFOS

F4:MRM of 9 channels,ES-
503.0 > 79.9
6.930e+005



13C2-PFDA

F5:MRM of 10 channels,ES-
515.1 > 469.9
2.640e+005



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-17.qld

Last Altered: Sunday, March 11, 2018 10:07:44 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:09:21 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_17, Date: 07-Mar-2018, Time: 21:12:18, ID: 1800405-11 CH-AT-1RW185-0218 0.25441, Description: CH-AT-1RW185-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.44e4	0.2544		3.01				
2	5 PFOA	413 > 368.7	1.36e2	9.34e3	0.2544		4.29	4.29	0.146	0.683	
3	7 PFOS	499 >79.9	2.13e0	1.44e4	0.2544		4.70	4.71	0.00424	0.0174	
4	15 13C2-PFHxA	315 > 269.8	6.01e3	9.34e3	0.2544	0.731	3.44	3.35	6.44	34.6	88.0
5	16 13C2-PFDA	515.1 > 469.9	6.89e3	9.34e3	0.2544	0.910	4.89	4.94	7.38	31.9	81.1
6	18 13C2-PFOA	414.9 > 369.7	9.34e3	9.34e3	0.2544	1.000	4.41	4.29	10.0	39.3	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.44e4	1.44e4	0.2544	1.000	4.81	4.70	28.7	113	100.0

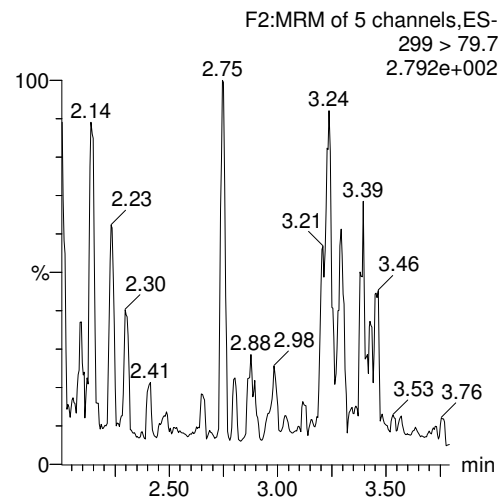
Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-17.qld

Last Altered: Sunday, March 11, 2018 10:07:44 Pacific Daylight Time
Printed: Sunday, March 11, 2018 10:09:21 Pacific Daylight Time

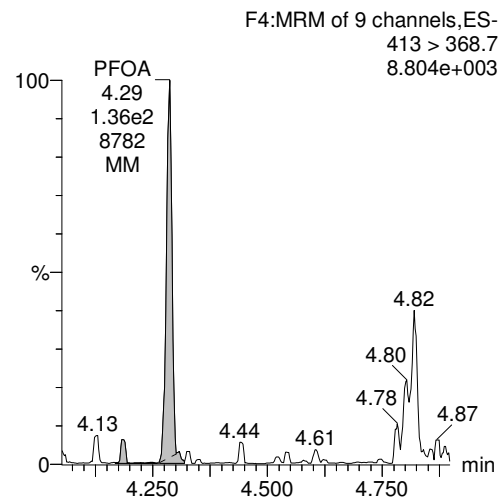
Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_17, Date: 07-Mar-2018, Time: 21:12:18, ID: 1800405-11 CH-AT-1RW185-0218 0.25441, Description: CH-AT-1RW185-0218

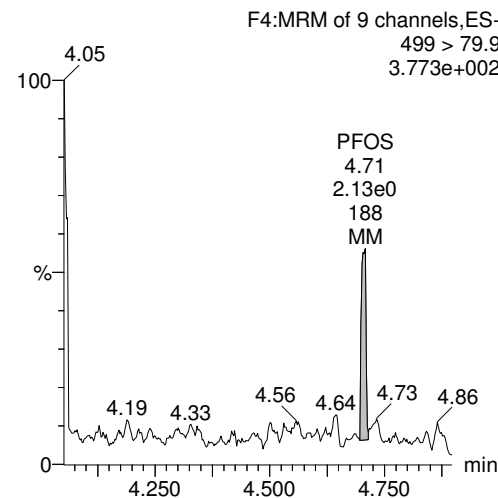
PFBS



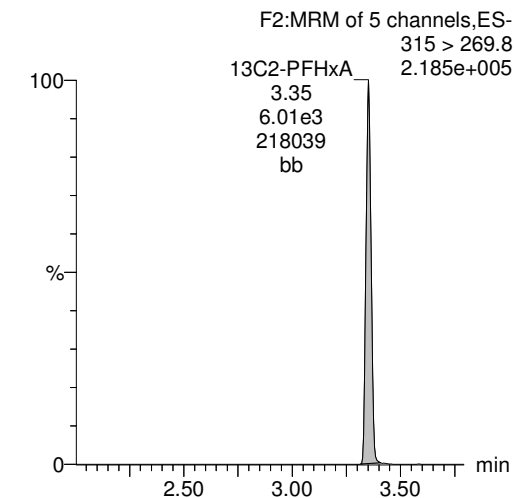
PFOA



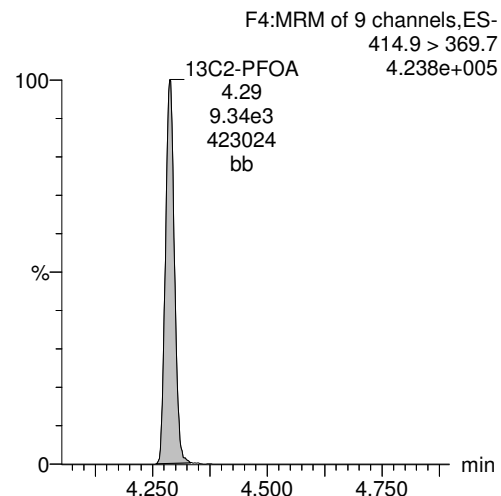
PFOS



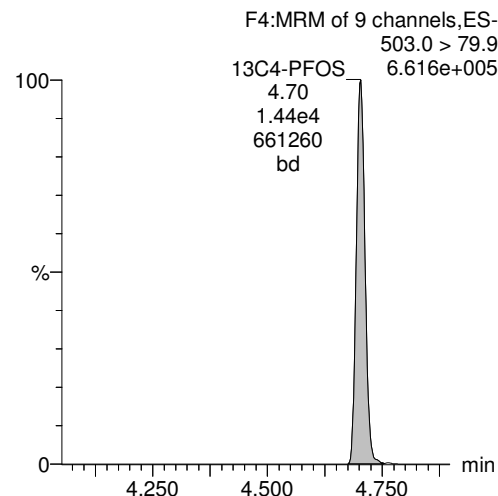
13C2-PFHxA



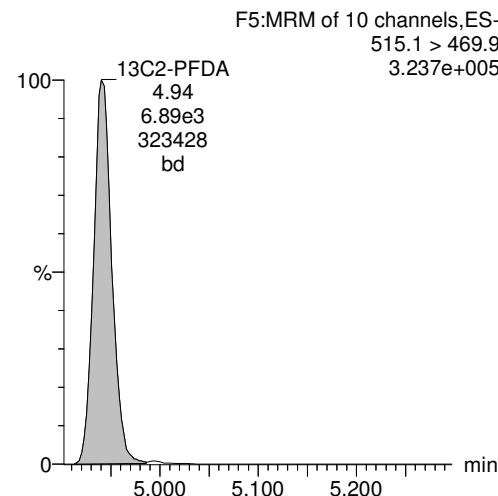
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_16.qld

Last Altered: Sunday, March 11, 2018 09:25:38 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:26:23 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_16, Date: 08-Mar-2018, Time: 20:56:50, ID: 1800405-12 CH-AT-1FB185-0218 0.26028, Description: CH-AT-1FB185-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.55e0	1.37e4	0.2603		2.99	2.97	0.00325	0.0175	
2	5 PFOA	413 > 368.7	3.29e1	7.34e3	0.2603		4.27	4.27	0.0448	0.190	
3	7 PFOS	499 >79.9	9.35e-1	1.37e4	0.2603		4.68	4.68	0.00196	0.00783	
4	15 13C2-PFHxA	315 > 269.8	5.01e3	7.34e3	0.2603	0.810	3.43	3.33	6.82	32.4	84.3
5	16 13C2-PFDA	515.1 > 469.9	6.40e3	7.34e3	0.2603	1.057	4.87	4.92	8.72	31.7	82.5
6	18 13C2-PFOA	414.9 > 369.7	7.34e3	7.34e3	0.2603	1.000	4.41	4.27	10.0	38.4	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.37e4	1.37e4	0.2603	1.000	4.81	4.68	28.7	110	100.0

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_16.qld

Last Altered: Sunday, March 11, 2018 09:25:38 Pacific Daylight Time

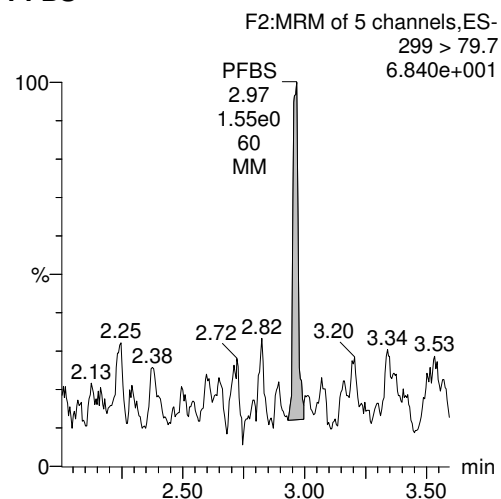
Printed: Sunday, March 11, 2018 09:26:23 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

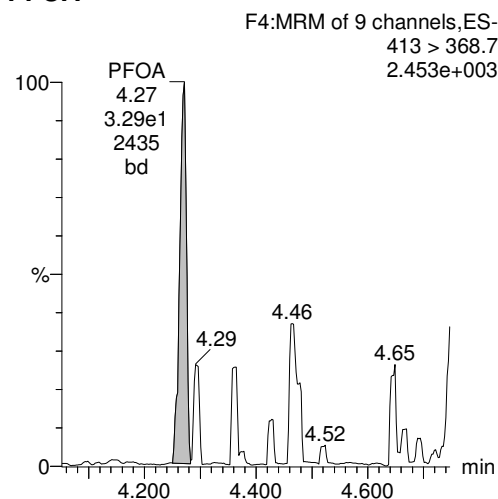
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_16, Date: 08-Mar-2018, Time: 20:56:50, ID: 1800405-12 CH-AT-1FB185-0218 0.26028, Description: CH-AT-1FB185-0218

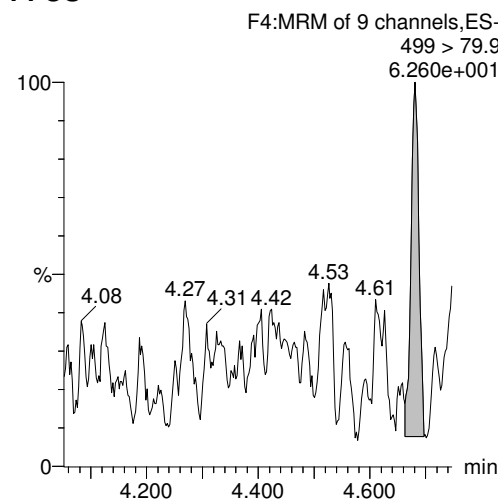
PFBS



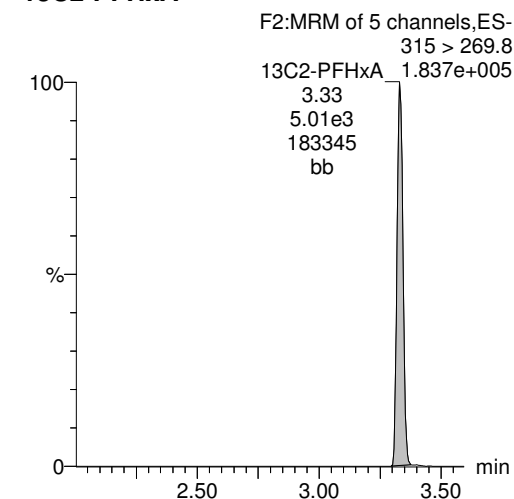
PFOA



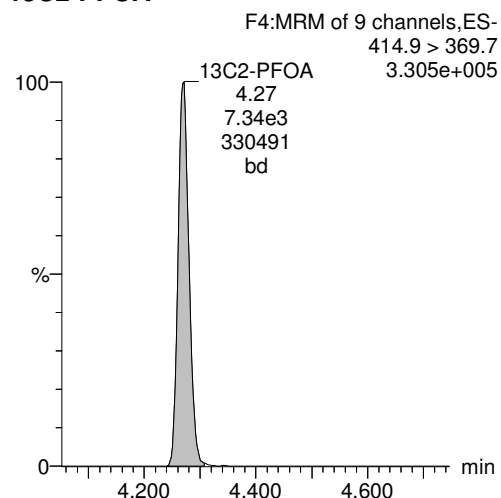
PFOS



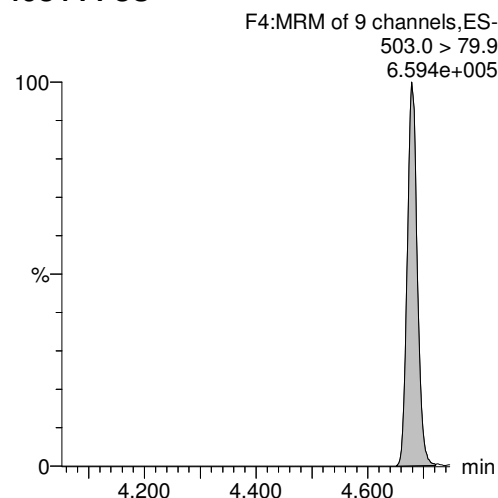
13C2-PFHxA



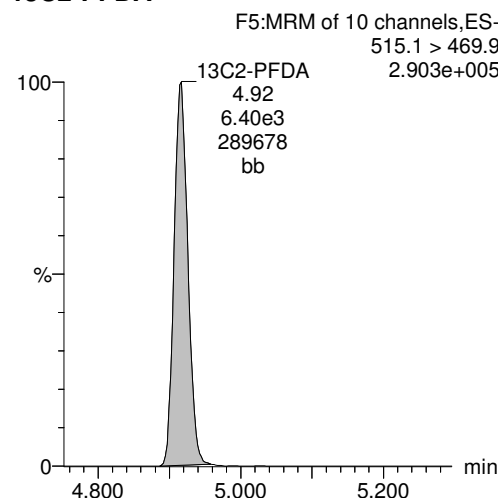
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-19.qld

Last Altered: Sunday, March 11, 2018 10:11:42 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:12:08 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_19, Date: 07-Mar-2018, Time: 21:36:56, ID: 1800405-13 CH-AT-1RW186-0218 0.25392, Description: CH-AT-1RW186-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.39e4	0.2539		3.01				
2	5 PFOA	413 > 368.7	3.08e2	9.28e3	0.2539		4.29	4.28	0.332	1.56	
3	7 PFOS	499 >79.9	1.55e1	1.39e4	0.2539		4.70	4.58	0.0320	0.131	
4	15 13C2-PFHxA	315 > 269.8	5.55e3	9.28e3	0.2539	0.731	3.44	3.35	5.98	32.2	81.8
5	16 13C2-PFDA	515.1 > 469.9	6.76e3	9.28e3	0.2539	0.910	4.89	4.94	7.29	31.5	80.1
6	18 13C2-PFOA	414.9 > 369.7	9.28e3	9.28e3	0.2539	1.000	4.41	4.29	10.0	39.4	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.39e4	1.39e4	0.2539	1.000	4.81	4.70	28.7	113	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-19.qld

Last Altered: Sunday, March 11, 2018 10:11:42 Pacific Daylight Time

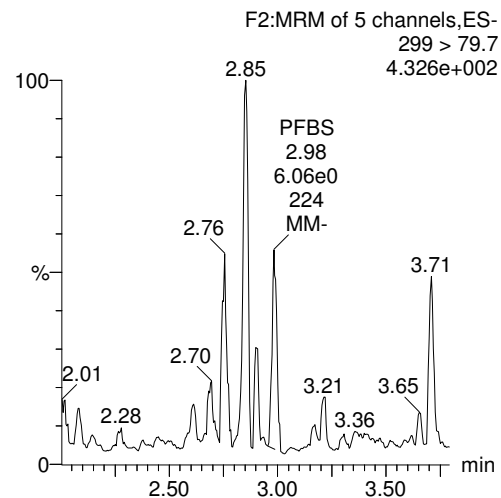
Printed: Sunday, March 11, 2018 10:12:08 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

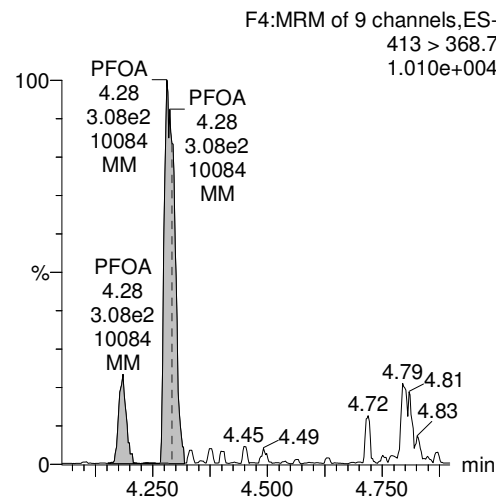
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_19, Date: 07-Mar-2018, Time: 21:36:56, ID: 1800405-13 CH-AT-1RW186-0218 0.25392, Description: CH-AT-1RW186-0218

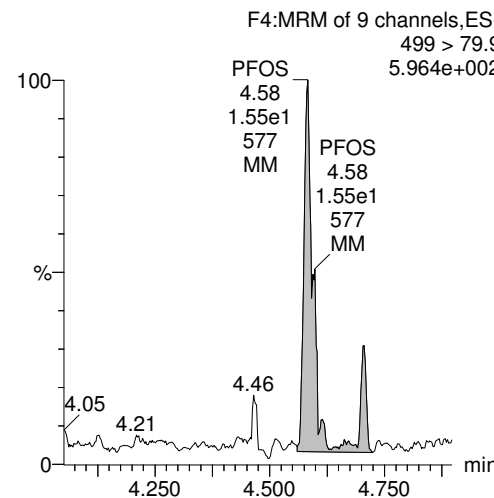
PFBS



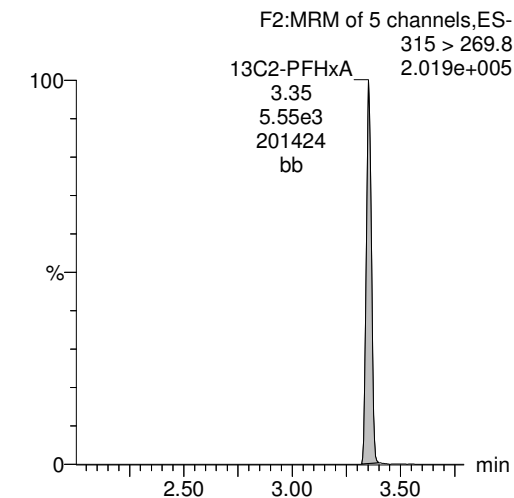
PFOA



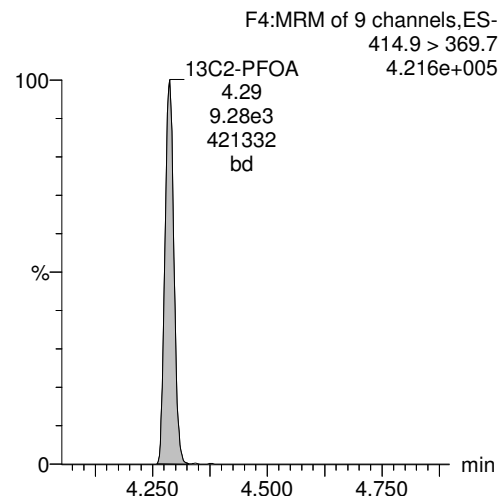
PFOS



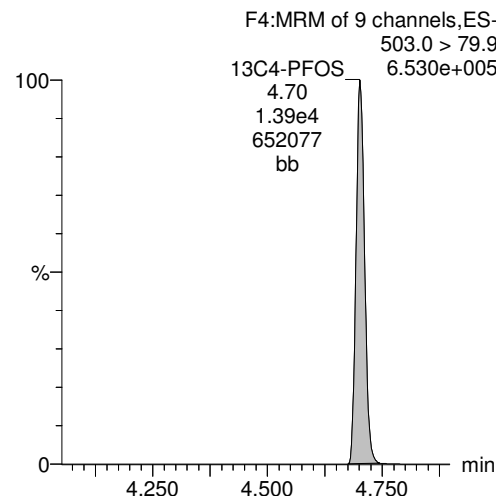
13C2-PFHxA



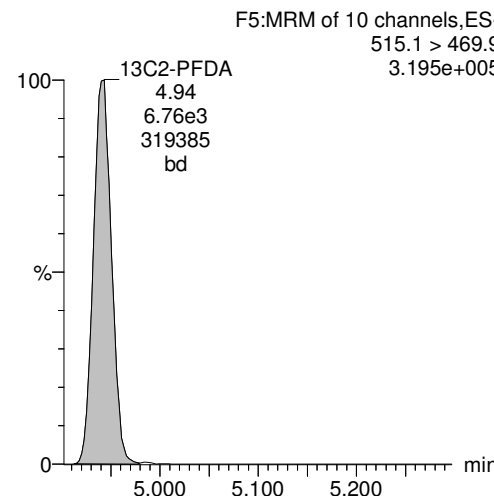
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_17.qld

Last Altered: Sunday, March 11, 2018 09:35:51 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:36:03 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_17, Date: 08-Mar-2018, Time: 21:09:14, ID: 1800405-14 CH-AT-1FB186-0218 0.25507, Description: CH-AT-1FB186-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.65e0	1.32e4	0.2551		2.99	2.98	0.0101	0.0555	
2	5 PFOA	413 > 368.7	6.22e1	7.43e3	0.2551		4.27	4.26	0.0836	0.361	
3	7 PFOS	499 >79.9	5.35e-1	1.32e4	0.2551		4.68	4.67	0.00116	0.00475	
4	15 13C2-PFHxA	315 > 269.8	5.46e3	7.43e3	0.2551	0.810	3.43	3.33	7.34	35.6	90.7
5	16 13C2-PFDA	515.1 > 469.9	6.49e3	7.43e3	0.2551	1.057	4.87	4.92	8.73	32.4	82.6
6	18 13C2-PFOA	414.9 > 369.7	7.43e3	7.43e3	0.2551	1.000	4.41	4.27	10.0	39.2	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.32e4	1.32e4	0.2551	1.000	4.81	4.68	28.7	113	100.0

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_17.qld

Last Altered: Sunday, March 11, 2018 09:35:51 Pacific Daylight Time

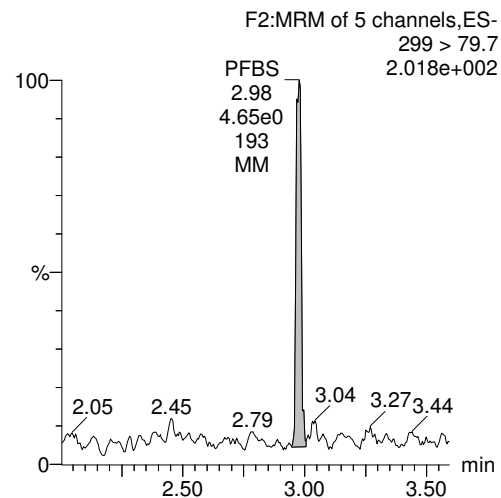
Printed: Sunday, March 11, 2018 09:36:03 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

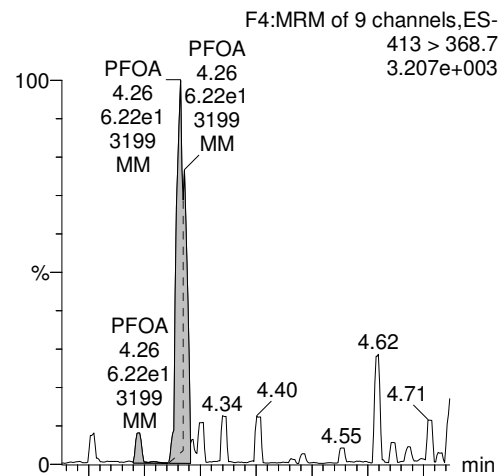
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_17, Date: 08-Mar-2018, Time: 21:09:14, ID: 1800405-14 CH-AT-1FB186-0218 0.25507, Description: CH-AT-1FB186-0218

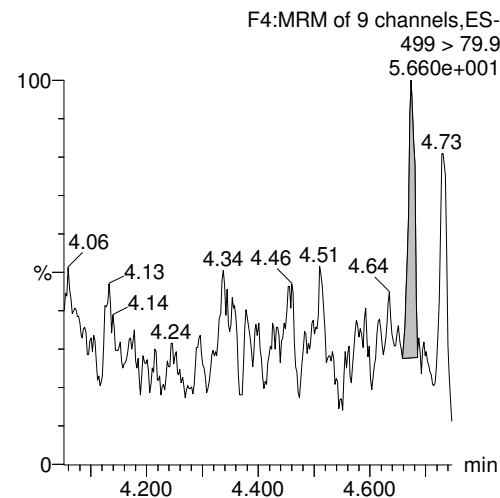
PFBS



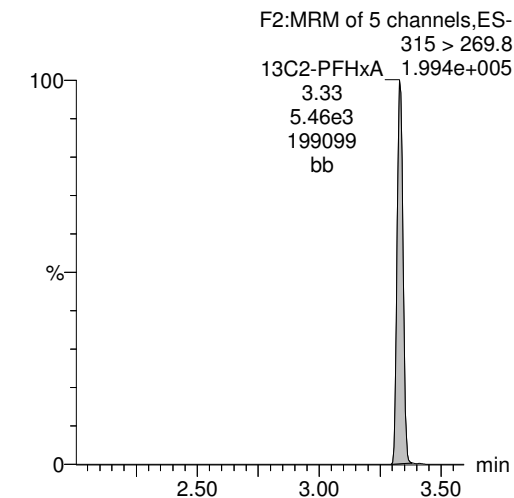
PFOA



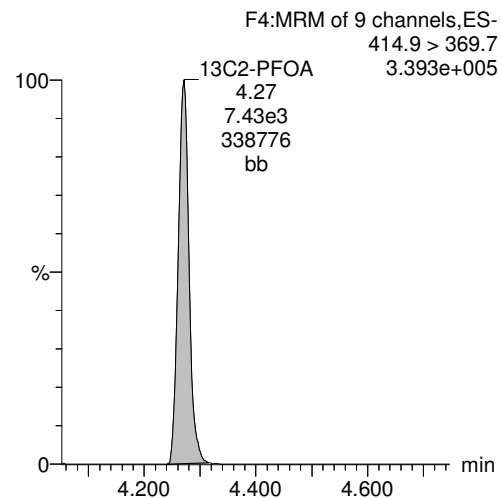
PFOS



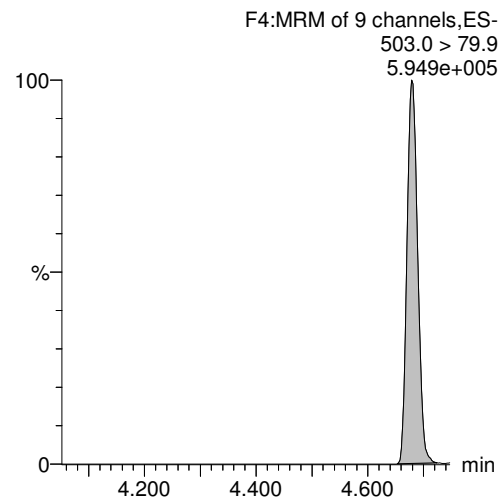
13C2-PFHxA



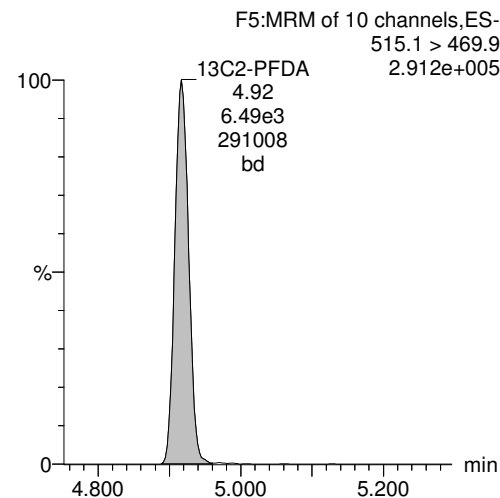
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_18.qld

Last Altered: Sunday, March 11, 2018 09:32:45 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:33:07 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_18, Date: 08-Mar-2018, Time: 21:21:40, ID: 1800405-15 CH-AT-1RW187-0218 0.25751, Description: CH-AT-1RW187-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.46e4	0.2575		3.00				
2	5 PFOA	413 > 368.7	9.18e1	7.54e3	0.2575		4.27	4.27	0.122	0.521	
3	7 PFOS	499 >79.9	8.98e-1	1.46e4	0.2575		4.68	4.68	0.00176	0.00711	
4	15 13C2-PFHxA	315 > 269.8	5.28e3	7.54e3	0.2575	0.810	3.43	3.33	7.00	33.6	86.4
5	16 13C2-PFDA	515.1 > 469.9	6.11e3	7.54e3	0.2575	1.057	4.87	4.92	8.10	29.7	76.6
6	18 13C2-PFOA	414.9 > 369.7	7.54e3	7.54e3	0.2575	1.000	4.41	4.27	10.0	38.8	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.46e4	1.46e4	0.2575	1.000	4.81	4.68	28.7	111	100.0

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_18.qld

Last Altered: Sunday, March 11, 2018 09:32:45 Pacific Daylight Time

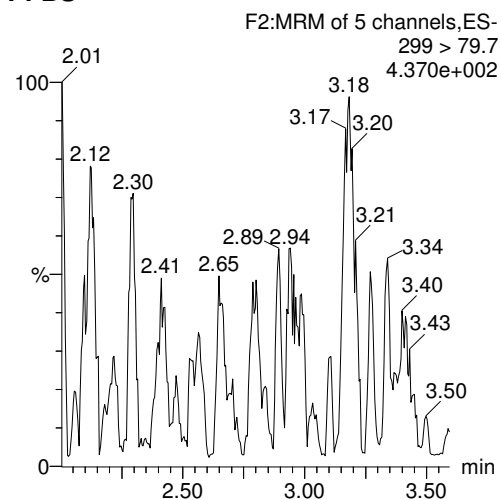
Printed: Sunday, March 11, 2018 09:33:07 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

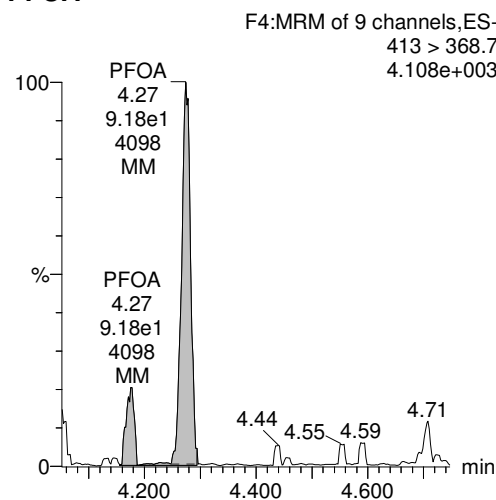
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_18, Date: 08-Mar-2018, Time: 21:21:40, ID: 1800405-15 CH-AT-1RW187-0218 0.25751, Description: CH-AT-1RW187-0218

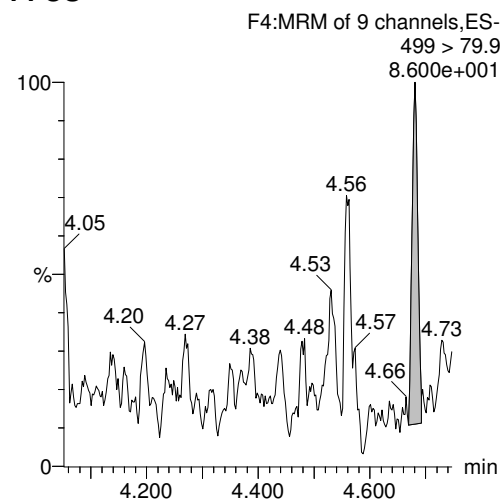
PFBS



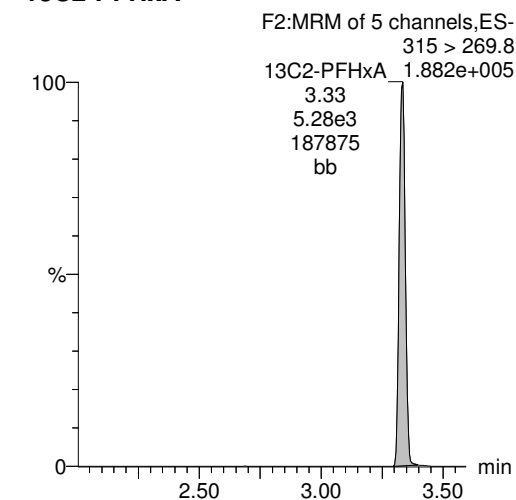
PFOA



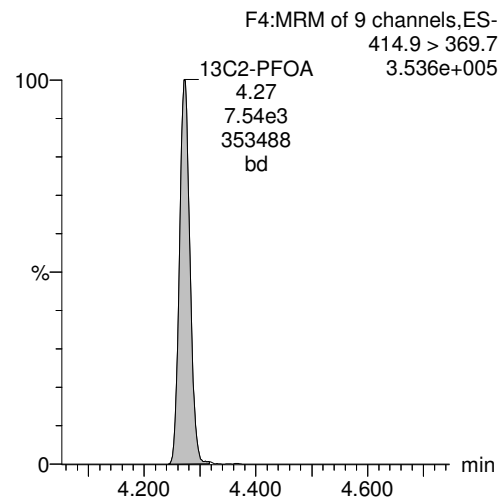
PFOS



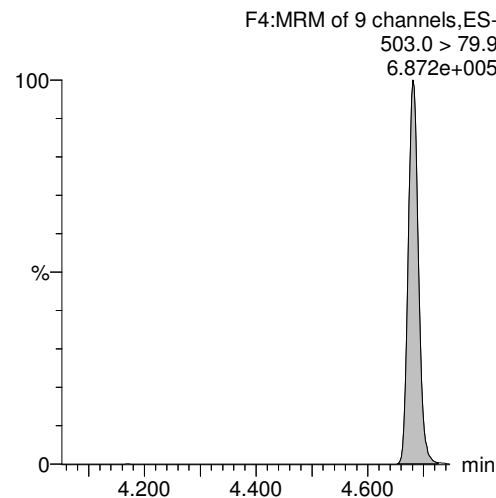
13C2-PFHxA



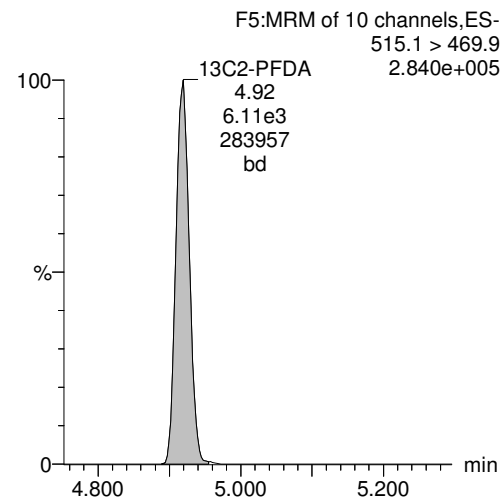
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_19.qld

Last Altered: Sunday, March 11, 2018 09:34:24 Pacific Daylight Time

Printed: Sunday, March 11, 2018 09:34:40 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_19, Date: 08-Mar-2018, Time: 21:34:06, ID: 1800405-16 CH-AT-1FB187-0218 0.25502, Description: CH-AT-1FB187-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.46e4							
2	5 PFOA	413 > 368.7	1.01e2	7.10e3	0.2550		4.27	4.26	0.142	0.613	
3	7 PFOS	499 >79.9		1.46e4	0.2550		4.68				
4	15 13C2-PFHxA	315 > 269.8	5.25e3	7.10e3	0.2550	0.810	3.43	3.33	7.40	35.8	91.4
5	16 13C2-PFDA	515.1 > 469.9	7.27e3	7.10e3	0.2550	1.057	4.87	4.92	10.2	38.0	96.9
6	18 13C2-PFOA	414.9 > 369.7	7.10e3	7.10e3	0.2550	1.000	4.41	4.27	10.0	39.2	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.46e4	1.46e4	0.2550	1.000	4.81	4.68	28.7	113	100.0

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4_19.qld

Last Altered: Sunday, March 11, 2018 09:34:24 Pacific Daylight Time

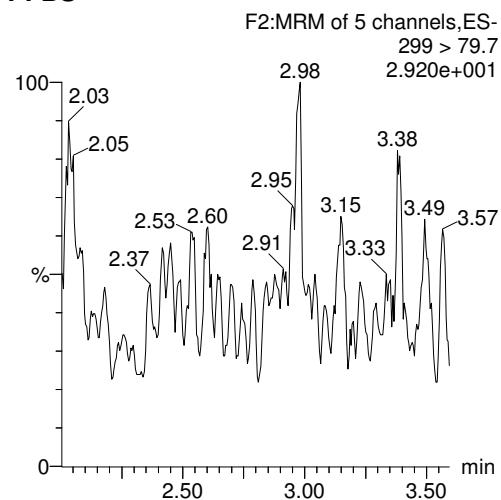
Printed: Sunday, March 11, 2018 09:34:40 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 11:32:26

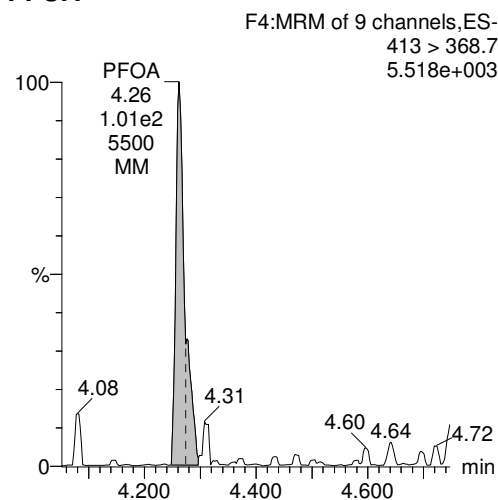
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 11:59:51

Name: 180308G4_19, Date: 08-Mar-2018, Time: 21:34:06, ID: 1800405-16 CH-AT-1FB187-0218 0.25502, Description: CH-AT-1FB187-0218

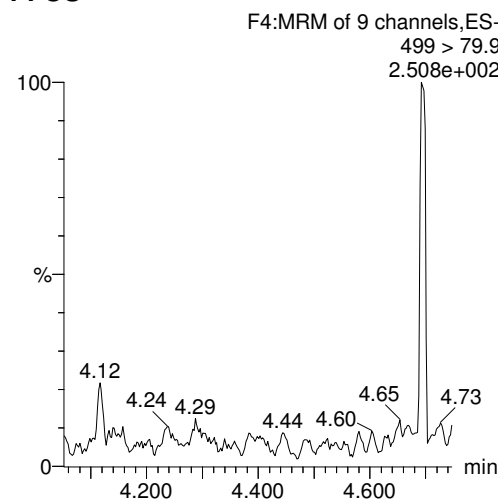
PFBS



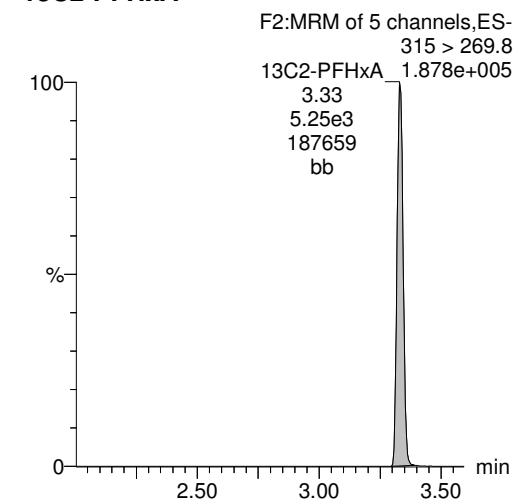
PFOA



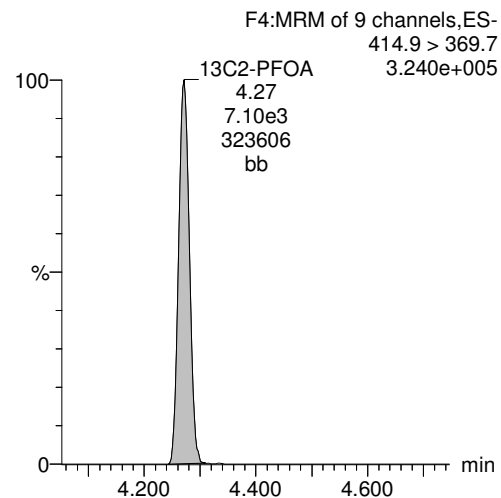
PFOS



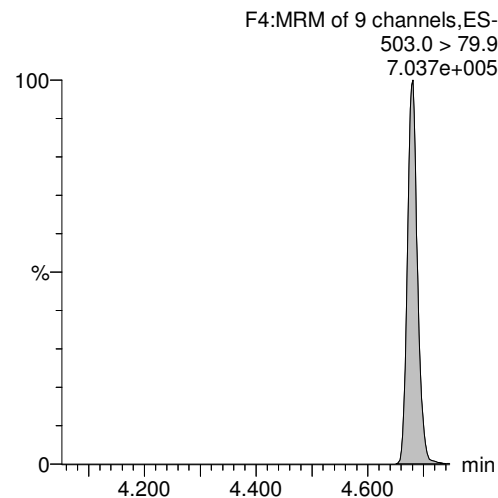
13C2-PFHxA



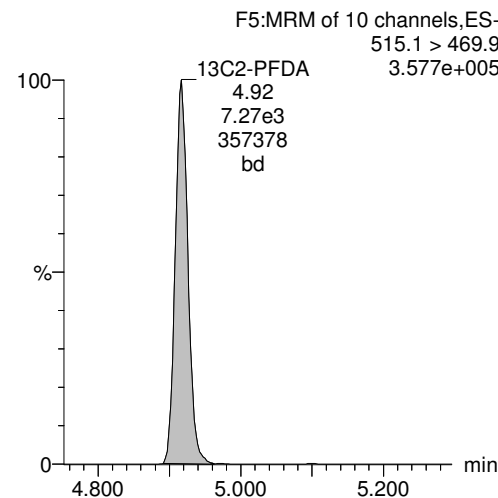
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-23.qld

Last Altered: Sunday, March 11, 2018 10:14:30 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:15:08 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_23, Date: 07-Mar-2018, Time: 22:26:27, ID: 1800405-17 CH-AT-1RW188-0218 0.25707, Description: CH-AT-1RW188-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.37e4	0.2571		3.01				
2	5 PFOA	413 > 368.7	3.22e2	9.00e3	0.2571		4.28	4.29	0.358	1.66	
3	7 PFOS	499 >79.9		1.37e4	0.2571		4.70				
4	15 13C2-PFHxA	315 > 269.8	6.10e3	9.00e3	0.2571	0.731	3.44	3.35	6.78	36.1	92.7
5	16 13C2-PFDA	515.1 > 469.9	6.64e3	9.00e3	0.2571	0.910	4.88	4.94	7.39	31.6	81.2
6	18 13C2-PFOA	414.9 > 369.7	9.00e3	9.00e3	0.2571	1.000	4.41	4.28	10.0	38.9	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.37e4	1.37e4	0.2571	1.000	4.81	4.70	28.7	112	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-23.qld

Last Altered: Sunday, March 11, 2018 10:14:30 Pacific Daylight Time

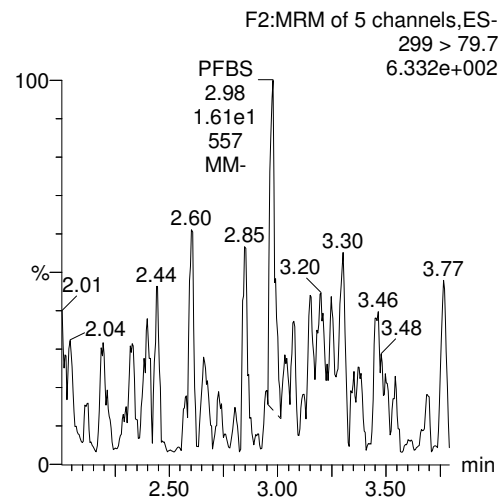
Printed: Sunday, March 11, 2018 10:15:08 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

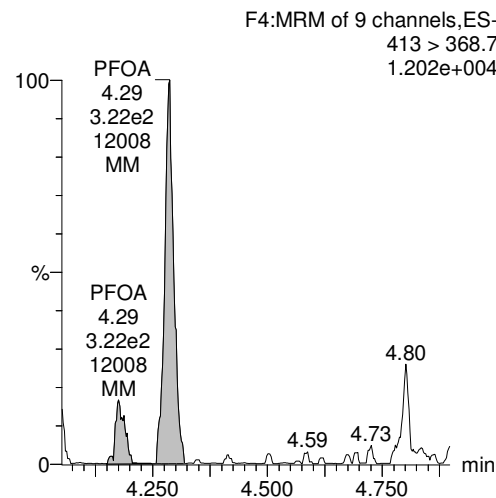
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_23, Date: 07-Mar-2018, Time: 22:26:27, ID: 1800405-17 CH-AT-1RW188-0218 0.25707, Description: CH-AT-1RW188-0218

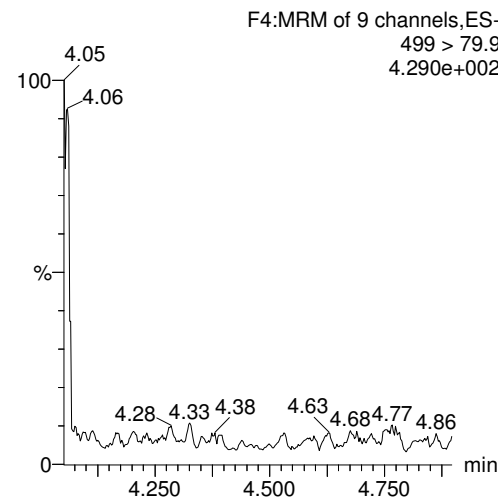
PFBS



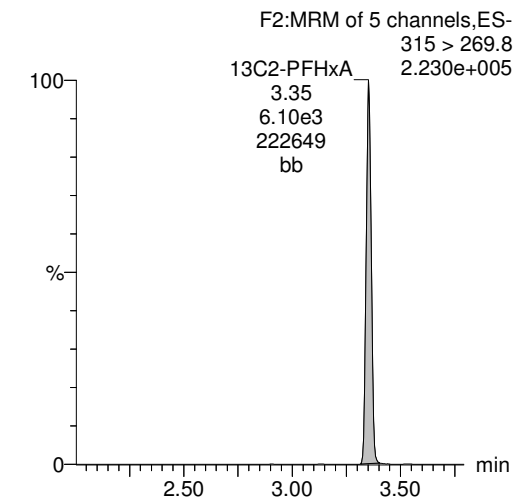
PFOA



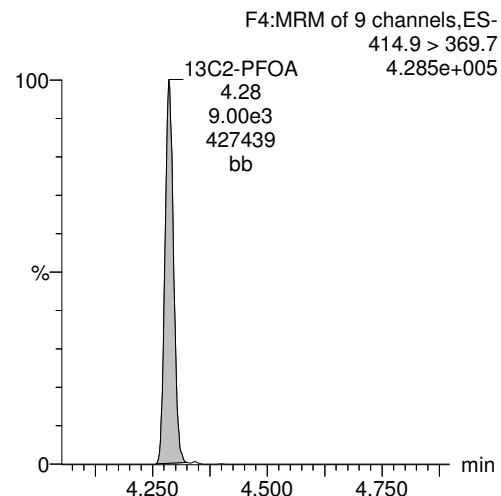
PFOS



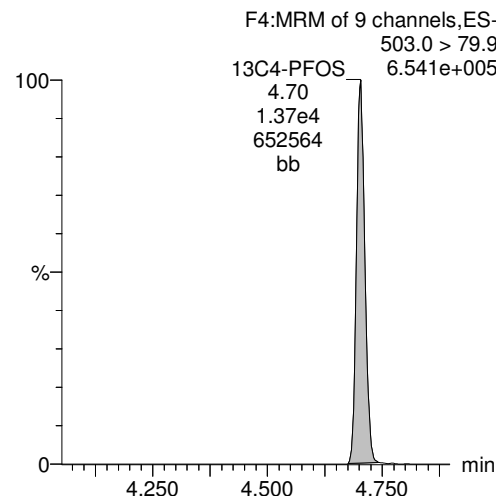
13C2-PFHxA



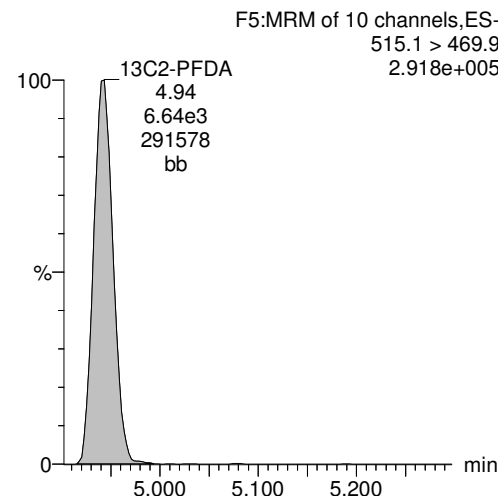
13C2-PFOA



13C4-PFOS



13C2-PFDA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-24.qld

Last Altered: Sunday, March 11, 2018 10:18:07 Pacific Daylight Time

Printed: Sunday, March 11, 2018 10:18:42 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_24, Date: 07-Mar-2018, Time: 22:38:51, ID: 1800405-18 CH-AT-1FB188-0218 0.25287, Description: CH-AT-1FB188-0218

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.35e4	0.2529		3.01				
2	5 PFOA	413 > 368.7	1.15e2	9.08e3	0.2529		4.29	4.29	0.126	0.595	
3	7 PFOS	499 >79.9		1.35e4	0.2529		4.70				
4	15 13C2-PFHxA	315 > 269.8	5.58e3	9.08e3	0.2529	0.731	3.44	3.35	6.14	33.2	84.0
5	16 13C2-PFDA	515.1 > 469.9	6.30e3	9.08e3	0.2529	0.910	4.89	4.94	6.94	30.2	76.3
6	18 13C2-PFOA	414.9 > 369.7	9.08e3	9.08e3	0.2529	1.000	4.41	4.29	10.0	39.5	100.0
7	19 13C4-PFOS	503.0 > 79.9	1.35e4	1.35e4	0.2529	1.000	4.81	4.70	28.7	113	100.0

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-24.qld

Last Altered: Sunday, March 11, 2018 10:18:07 Pacific Daylight Time

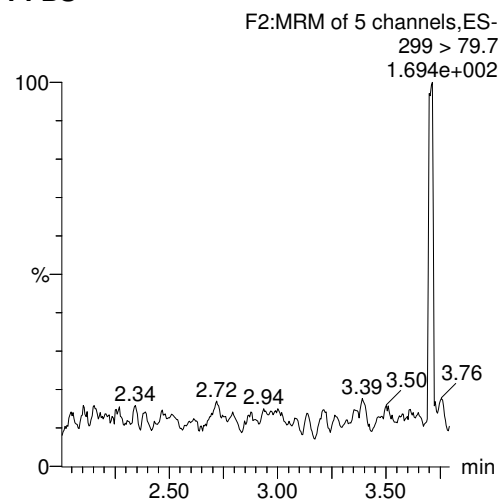
Printed: Sunday, March 11, 2018 10:18:42 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 16:59:15

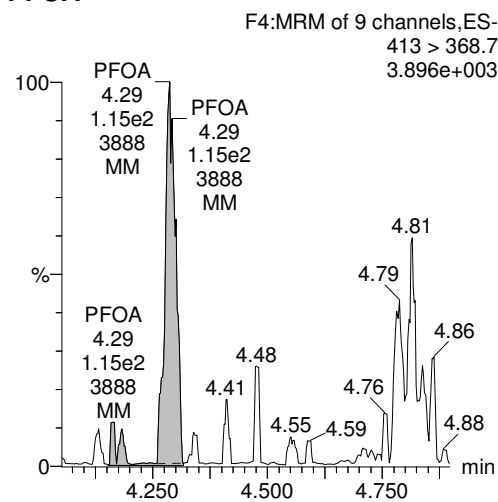
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:46:11

Name: 180307G4_24, Date: 07-Mar-2018, Time: 22:38:51, ID: 1800405-18 CH-AT-1FB188-0218 0.25287, Description: CH-AT-1FB188-0218

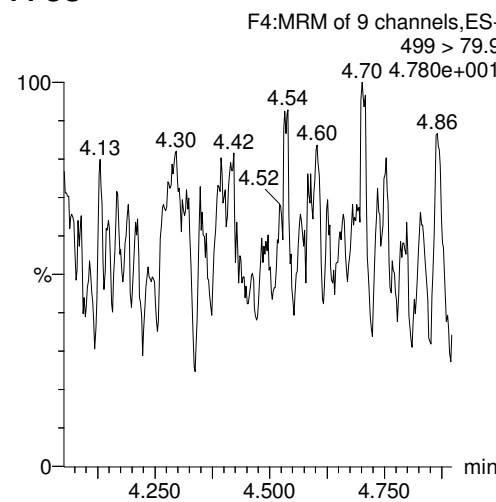
PFBS



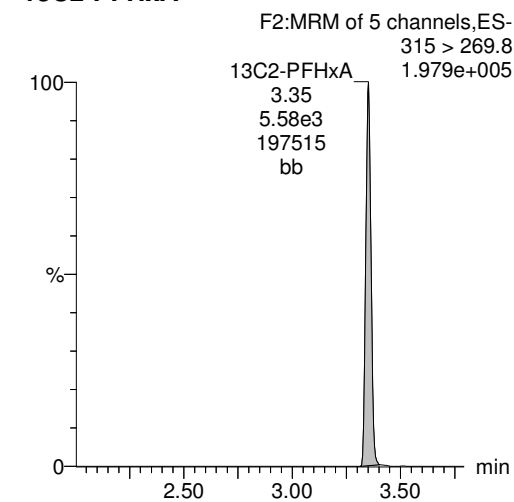
PFOA



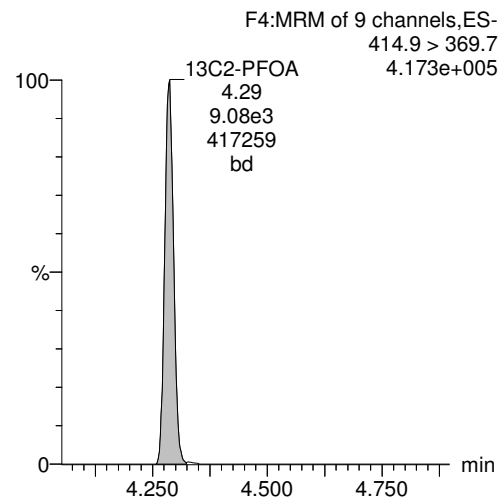
PFOS



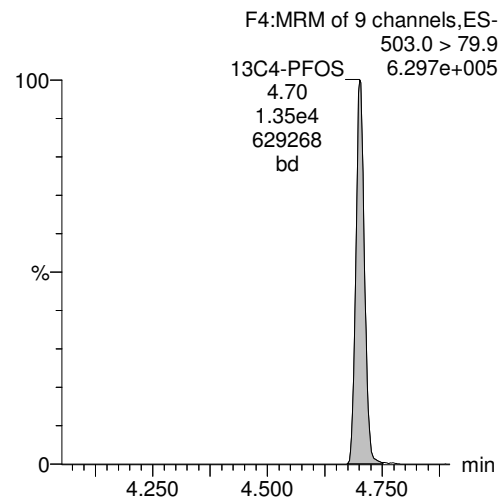
13C2-PFHxA



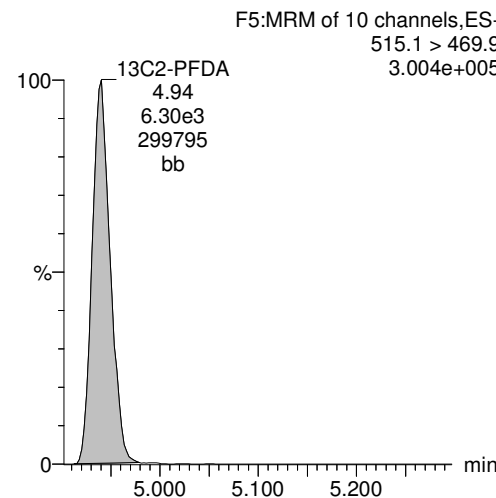
13C2-PFOA



13C4-PFOS



13C2-PFDA



CONTINUING CALIBRATION

Compound 18: 13C2-PFOA

ID	Name	Type	Std. Conc	RT	Area	Ical Area	Area %	
1	IPA	180307G4_1	Analyte	10		8974.47	0.00	
2	ST180307G4-1 PFC CS-1 537 18B2310	180307G4_2	Analyte	10	4.28	10526.82	8974.47	117.30
3	IPA	180307G4_3	Analyte	10		8974.47	0.00	
4	B8C0030-BLK1 LRB 0.25	180307G4_4	Analyte	10	4.28	8720.104	8974.47	97.17
5	B8C0030-BS1 LFB 0.25	180307G4_5	Analyte	10	4.29	7729.586	8974.47	86.13
6	B8C0030-BSD1 LFB 0.25	180307G4_6	Analyte	10	4.29	8855.55	8974.47	98.67
7	1800405-01 CH-AT-1RW180-0218 0.25257	180307G4_7	Analyte	10	4.29	8395.745	8974.47	93.55
8	1800405-02 CH-AT-1FB180-0218 0.25711	180307G4_8	Analyte	10	4.29	8366.39	8974.47	93.22
9	1800405-03 CH-AT-1RW181-0218 0.25108	180307G4_9	Analyte	10	4.28	8023.351	8974.47	89.40
10	1800405-04 CH-AT-1FB181-0218 0.25861	180307G4_10	Analyte	10	4.29	7861.148	8974.47	87.59
11	1800405-05 CH-AT-1RW182-0218 0.25074	180307G4_11	Analyte	10	4.29	7846.451	8974.47	87.43
12	1800405-06 CH-AT-1FB182-0218 0.26155	180307G4_12	Analyte	10	4.28	8488.598	8974.47	94.59
13	1800405-07 CH-AT-1RW183-0218 0.25302	180307G4_13	Analyte	10	4.28	8225.633	8974.47	91.66
14	1800405-08 CH-AT-1FB183-0218 0.25504	180307G4_14	Analyte	10	4.29	9160.662	8974.47	102.07
15	1800405-09 CH-AT-1RW184-0218 0.25531	180307G4_15	Analyte	10	4.29	8285.043	8974.47	92.32
16	1800405-10 CH-AT-1FB184-0218 0.25579	180307G4_16	Analyte	10	4.29	9675.223	8974.47	107.81
17	1800405-11 CH-AT-1RW185-0218 0.25441	180307G4_17	Analyte	10	4.29	9338.147	8974.47	104.05
18	1800405-12 CH-AT-1FB185-0218 0.26028	180307G4_18	Analyte	10	4.29	8741.561	8974.47	97.40
19	1800405-13 CH-AT-1RW186-0218 0.25392	180307G4_19	Analyte	10	4.29	9283.616	8974.47	103.44
20	1800405-14 CH-AT-1FB186-0218 0.25507	180307G4_20	Analyte	10	4.28	8052.281	8974.47	89.72
21	1800405-15 CH-AT-1RW187-0218 0.25751	180307G4_21	Analyte	10	4.29	9020.714	8974.47	100.52
22	1800405-16 CH-AT-1FB187-0218 0.25502	180307G4_22	Analyte	10	4.29	8690.436	8974.47	96.84
23	1800405-17 CH-AT-1RW188-0218 0.25707	180307G4_23	Analyte	10	4.28	8995.225	8974.47	100.23
24	1800405-18 CH-AT-1FB188-0218 0.25287	180307G4_24	Analyte	10	4.29	9081.345	8974.47	101.19
25	IPA	180307G4_25	Analyte	10		8974.47	0.00	
26	ST180307G4-2 PFC CS1 537 18B2304	180307G4_26	Analyte	10	4.29	10730.03	8974.47	119.56
27	IPA	180307G4_27	Analyte	10				

Compound 19: 13C4-PFOS

ID	Name	Type	Std. Conc	RT	Area	Ical Area	Area %
1	IPA	Analyte	28.7				
2	ST180307G4-1 PFC CS-1 537 18B2310	Analyte	28.7	4.7	18929.94	17934.74	105.55
3	IPA	Analyte	28.7			17934.74	0.00
4	B8C0030-BLK1 LRB 0.25	Analyte	28.7	4.7	14364.73	17934.74	80.09
5	B8C0030-BS1 LFB 0.25	Analyte	28.7	4.7	13371.35	17934.74	74.56
6	B8C0030-BSD1 LFB 0.25	Analyte	28.7	4.7	14792.99	17934.74	82.48
7	1800405-01 CH-AT-1RW180-0218 0.25257	Analyte	28.7	4.7	14163.91	17934.74	78.97
8	1800405-02 CH-AT-1FB180-0218 0.25711	Analyte	28.7	4.7	14995.37	17934.74	83.61
9	1800405-03 CH-AT-1RW181-0218 0.25108	Analyte	28.7	4.7	14241.85	17934.74	79.41
10	1800405-04 CH-AT-1FB181-0218 0.25861	Analyte	28.7	4.7	13137.14	17934.74	73.25
11	1800405-05 CH-AT-1RW182-0218 0.25074	Analyte	28.7	4.7	13785	17934.74	76.86
12	1800405-06 CH-AT-1FB182-0218 0.26155	Analyte	28.7	4.7	14797.06	17934.74	82.51
13	1800405-07 CH-AT-1RW183-0218 0.25302	Analyte	28.7	4.7	12968.21	17934.74	72.31
14	1800405-08 CH-AT-1FB183-0218 0.25504	Analyte	28.7	4.7	14306.16	17934.74	79.77
15	1800405-09 CH-AT-1RW184-0218 0.25531	Analyte	28.7	4.7	13991.61	17934.74	78.01
16	1800405-10 CH-AT-1FB184-0218 0.25579	Analyte	28.7	4.7	14806.08	17934.74	82.56
17	1800405-11 CH-AT-1RW185-0218 0.25441	Analyte	28.7	4.7	14433.02	17934.74	80.48
18	1800405-12 CH-AT-1FB185-0218 0.26028	Analyte	28.7	4.7	13125.32	17934.74	73.18
19	1800405-13 CH-AT-1RW186-0218 0.25392	Analyte	28.7	4.7	13936.08	17934.74	77.70
20	1800405-14 CH-AT-1FB186-0218 0.25507	Analyte	28.7	4.7	12416.21	17934.74	69.23
21	1800405-15 CH-AT-1RW187-0218 0.25751	Analyte	28.7	4.7	13120.04	17934.74	73.15
22	1800405-16 CH-AT-1FB187-0218 0.25502	Analyte	28.7	4.7	12875.98	17934.74	71.79
23	1800405-17 CH-AT-1RW188-0218 0.25707	Analyte	28.7	4.7	13845.31	17934.74	77.20
24	1800405-18 CH-AT-1FB188-0218 0.25287	Analyte	28.7	4.7	13524.53	17934.74	75.41
25	IPA	Analyte	28.7			17934.74	0.00
26	ST180307G4-2 PFC CS1 537 18B2304	Analyte	28.7	4.7	15398.38	17934.74	85.86
27	IPA	Analyte	28.7				

Compound 20: d3-N-MeFOSAA

ID	Name	Type	Std. Conc	RT	Area	Ical Area	Area %
1	IPA	Analyte	40			12825.49	0.00
2	ST180307G4-1 PFC CS-1 537 18B2310	Analyte	40	5.06	13992.17	12825.49	109.10
3	IPA	Analyte	40			12825.49	0.00
4	B8C0030-BLK1 LRB 0.25	Analyte	40	5.07	13936.49	12825.49	108.66
5	B8C0030-BS1 LFB 0.25	Analyte	40	5.07	11772.35	12825.49	91.79
6	B8C0030-BSD1 LFB 0.25	Analyte	40	5.07	12539.87	12825.49	97.77
7	1800405-01 CH-AT-1RW180-0218 0.25257	Analyte	40	5.07	12404.32	12825.49	96.72
8	1800405-02 CH-AT-1FB180-0218 0.25711	Analyte	40	5.07	12645.23	12825.49	98.59
9	1800405-03 CH-AT-1RW181-0218 0.25108	Analyte	40	5.06	12844.69	12825.49	100.15
10	1800405-04 CH-AT-1FB181-0218 0.25861	Analyte	40	5.07	12001.87	12825.49	93.58
11	1800405-05 CH-AT-1RW182-0218 0.25074	Analyte	40	5.06	11153.98	12825.49	86.97
12	1800405-06 CH-AT-1FB182-0218 0.26155	Analyte	40	5.07	12446.61	12825.49	97.05
13	1800405-07 CH-AT-1RW183-0218 0.25302	Analyte	40	5.07	11039.91	12825.49	86.08
14	1800405-08 CH-AT-1FB183-0218 0.25504	Analyte	40	5.07	11249.15	12825.49	87.71
15	1800405-09 CH-AT-1RW184-0218 0.25531	Analyte	40	5.07	11543.19	12825.49	90.00
16	1800405-10 CH-AT-1FB184-0218 0.25579	Analyte	40	5.06	12840.78	12825.49	100.12
17	1800405-11 CH-AT-1RW185-0218 0.25441	Analyte	40	5.07	11665.51	12825.49	90.96
18	1800405-12 CH-AT-1FB185-0218 0.26028	Analyte	40	5.07	12130.11	12825.49	94.58
19	1800405-13 CH-AT-1RW186-0218 0.25392	Analyte	40	5.07	12400.61	12825.49	96.69
20	1800405-14 CH-AT-1FB186-0218 0.25507	Analyte	40	5.07	12723.5	12825.49	99.20
21	1800405-15 CH-AT-1RW187-0218 0.25751	Analyte	40	5.07	11577.84	12825.49	90.27
22	1800405-16 CH-AT-1FB187-0218 0.25502	Analyte	40	5.06	10514.58	12825.49	81.98
23	1800405-17 CH-AT-1RW188-0218 0.25707	Analyte	40	5.07	11376.47	12825.49	88.70
24	1800405-18 CH-AT-1FB188-0218 0.25287	Analyte	40	5.06	10860.35	12825.49	84.68
25	IPA	Analyte	40	5.07	10.905	12825.49	0.09
26	ST180307G4-2 PFC CS1 537 18B2304	Analyte	40	5.07	14568.27	12825.49	113.59
27	IPA	Analyte	40				

Compound 18: 13C2-PFOA

ID	Name	Type	Std. Conc	RT	Area	CCal Area	Area %
1 IPA	180307G4_1	Analyte	10			10526.82	0.00
2 ST180307G4-1 PFC CS-1 537 18B2310	180307G4_2	Analyte	10	4.28	10526.82	10526.82	100.00
3 IPA	180307G4_3	Analyte	10	4.28		10526.82	0.00
4 B8C0030-BLK1 LRB 0.25	180307G4_4	Analyte	10	4.28	8720.104	10526.82	82.84
5 B8C0030-BS1 LFB 0.25	180307G4_5	Analyte	10	4.28	7729.586	10526.82	73.43
6 B8C0030-BSD1 LFB 0.25	180307G4_6	Analyte	10	4.28	8855.55	10526.82	84.12
7 1800405-01 CH-AT-1RW180-0218 0.25257	180307G4_7	Analyte	10	4.28	8395.745	10526.82	79.76
8 1800405-02 CH-AT-1FB180-0218 0.25711	180307G4_8	Analyte	10	4.28	8366.39	10526.82	79.48
9 1800405-03 CH-AT-1RW181-0218 0.25108	180307G4_9	Analyte	10	4.28	8023.351	10526.82	76.22
10 1800405-04 CH-AT-1FB181-0218 0.25861	180307G4_10	Analyte	10	4.28	7861.148	10526.82	74.68
11 1800405-05 CH-AT-1RW182-0218 0.25074	180307G4_11	Analyte	10	4.28	7846.451	10526.82	74.54
12 1800405-06 CH-AT-1FB182-0218 0.26155	180307G4_12	Analyte	10	4.28	8488.598	10526.82	80.64
13 1800405-07 CH-AT-1RW183-0218 0.25302	180307G4_13	Analyte	10	4.28	8225.633	10526.82	78.14
14 1800405-08 CH-AT-1FB183-0218 0.25504	180307G4_14	Analyte	10	4.28	9160.662	10526.82	87.02
15 1800405-09 CH-AT-1RW184-0218 0.25531	180307G4_15	Analyte	10	4.28	8285.043	10526.82	78.70
16 1800405-10 CH-AT-1FB184-0218 0.25579	180307G4_16	Analyte	10	4.28	9675.223	10526.82	91.91
17 1800405-11 CH-AT-1RW185-0218 0.25441	180307G4_17	Analyte	10	4.28	9338.147	10526.82	88.71
18 1800405-12 CH-AT-1FB185-0218 0.26028	180307G4_18	Analyte	10	4.28	8741.561	10526.82	83.04
19 1800405-13 CH-AT-1RW186-0218 0.25392	180307G4_19	Analyte	10	4.28	9283.616	10526.82	88.19
20 1800405-14 CH-AT-1FB186-0218 0.25507	180307G4_20	Analyte	10	4.28	8052.281	10526.82	76.49
21 1800405-15 CH-AT-1RW187-0218 0.25751	180307G4_21	Analyte	10	4.28	9020.714	10526.82	85.69
22 1800405-16 CH-AT-1FB187-0218 0.25502	180307G4_22	Analyte	10	4.28	8690.436	10526.82	82.56
23 1800405-17 CH-AT-1RW188-0218 0.25707	180307G4_23	Analyte	10	4.28	8995.225	10526.82	85.45
24 1800405-18 CH-AT-1FB188-0218 0.25287	180307G4_24	Analyte	10	4.28	9081.345	10526.82	86.27
25 IPA	180307G4_25	Analyte	10	4.28		10526.82	0.00
26 ST180307G4-2 PFC CS1 537 18B2304	180307G4_26	Analyte	10	4.28	10730.03	10526.82	101.93
27 IPA	180307G4_27	Analyte	10	4.28		10526.82	0.00

Compound 19: 13C4-PFOS

ID	Name	Type	Std. Conc	RT	Area	Ccal Area	Area %
1 IPA	180307G4_1	Analyte	28.7			18929.94	0.00
2 ST180307G4-1 PFC CS-1 537 18B2310	180307G4_2	Analyte	28.7	4.7	18929.94	18929.94	100.00
3 IPA	180307G4_3	Analyte	28.7	4.7		18929.94	0.00
4 B8C0030-BLK1 LRB 0.25	180307G4_4	Analyte	28.7	4.7	14364.73	18929.94	75.88
5 B8C0030-BS1 LFB 0.25	180307G4_5	Analyte	28.7	4.7	13371.35	18929.94	70.64
6 B8C0030-BSD1 LFB 0.25	180307G4_6	Analyte	28.7	4.7	14792.99	18929.94	78.15
7 1800405-01 CH-AT-1RW180-0218 0.25257	180307G4_7	Analyte	28.7	4.7	14163.91	18929.94	74.82
8 1800405-02 CH-AT-1FB180-0218 0.25711	180307G4_8	Analyte	28.7	4.7	14995.37	18929.94	79.22
9 1800405-03 CH-AT-1RW181-0218 0.25108	180307G4_9	Analyte	28.7	4.7	14241.85	18929.94	75.23
10 1800405-04 CH-AT-1FB181-0218 0.25861	180307G4_10	Analyte	28.7	4.7	13137.14	18929.94	69.40
11 1800405-05 CH-AT-1RW182-0218 0.25074	180307G4_11	Analyte	28.7	4.7	13785	18929.94	72.82
12 1800405-06 CH-AT-1FB182-0218 0.26155	180307G4_12	Analyte	28.7	4.7	14797.06	18929.94	78.17
13 1800405-07 CH-AT-1RW183-0218 0.25302	180307G4_13	Analyte	28.7	4.7	12968.21	18929.94	68.51
14 1800405-08 CH-AT-1FB183-0218 0.25504	180307G4_14	Analyte	28.7	4.7	14306.16	18929.94	75.57
15 1800405-09 CH-AT-1RW184-0218 0.25531	180307G4_15	Analyte	28.7	4.7	13991.61	18929.94	73.91
16 1800405-10 CH-AT-1FB184-0218 0.25579	180307G4_16	Analyte	28.7	4.7	14806.08	18929.94	78.22
17 1800405-11 CH-AT-1RW185-0218 0.25441	180307G4_17	Analyte	28.7	4.7	14433.02	18929.94	76.24
18 1800405-12 CH-AT-1FB185-0218 0.26028	180307G4_18	Analyte	28.7	4.7	13125.32	18929.94	69.34
19.00 1800405-13 CH-AT-1RW186-0218 0.25392	180307G4_19	Analyte	28.7	4.7	13936.08	18929.94	73.62
20 1800405-14 CH-AT-1FB186-0218 0.25507	180307G4_20	Analyte	28.7	4.7	12416.21	18929.94	65.59
21 1800405-15 CH-AT-1RW187-0218 0.25751	180307G4_21	Analyte	28.7	4.7	13120.04	18929.94	69.31
22 1800405-16 CH-AT-1FB187-0218 0.25502	180307G4_22	Analyte	28.7	4.7	12875.98	18929.94	68.02
23 1800405-17 CH-AT-1RW188-0218 0.25707	180307G4_23	Analyte	28.7	4.7	13845.31	18929.94	73.14
24 1800405-18 CH-AT-1FB188-0218 0.25287	180307G4_24	Analyte	28.7	4.7	13524.53	18929.94	71.45
25 IPA	180307G4_25	Analyte	28.7	4.7		18929.94	0.00
26 ST180307G4-2 PFC CS1 537 18B2304	180307G4_26	Analyte	28.7	4.7	15398.38	18929.94	81.34
27 IPA	180307G4_27	Analyte	28.7				

Compound 20: d3-N-MeFOSAA

ID	Name	Type	Std. Conc	RT	Area	Ccal Area	Area %
1	IPA	Analyte	40			13992.17	0.00
2	ST180307G4-1 PFC CS-1 537 18B2310	Analyte	40	5.06	13992.17	13992.17	100.00
3	IPA	Analyte	40	5.06		13992.17	0.00
4	B8C0030-BLK1 LRB 0.25	Analyte	40	5.06	13936.49	13992.17	99.60
5	B8C0030-BS1 LFB 0.25	Analyte	40	5.06	11772.35	13992.17	84.14
6	B8C0030-BSD1 LFB 0.25	Analyte	40	5.06	12539.87	13992.17	89.62
7	1800405-01 CH-AT-1RW180-0218 0.25257	Analyte	40	5.06	12404.32	13992.17	88.65
8	1800405-02 CH-AT-1FB180-0218 0.25711	Analyte	40	5.06	12645.23	13992.17	90.37
9	1800405-03 CH-AT-1RW181-0218 0.25108	Analyte	40	5.06	12844.69	13992.17	91.80
10	1800405-04 CH-AT-1FB181-0218 0.25861	Analyte	40	5.06	12001.87	13992.17	85.78
11	1800405-05 CH-AT-1RW182-0218 0.25074	Analyte	40	5.06	11153.98	13992.17	79.72
12	1800405-06 CH-AT-1FB182-0218 0.26155	Analyte	40	5.06	12446.61	13992.17	88.95
13	1800405-07 CH-AT-1RW183-0218 0.25302	Analyte	40	5.06	11039.91	13992.17	78.90
14	1800405-08 CH-AT-1FB183-0218 0.25504	Analyte	40	5.06	11249.15	13992.17	80.40
15	1800405-09 CH-AT-1RW184-0218 0.25531	Analyte	40	5.06	11543.19	13992.17	82.50
16	1800405-10 CH-AT-1FB184-0218 0.25579	Analyte	40	5.06	12840.78	13992.17	91.77
17	1800405-11 CH-AT-1RW185-0218 0.25441	Analyte	40	5.06	11665.51	13992.17	83.37
18	1800405-12 CH-AT-1FB185-0218 0.26028	Analyte	40	5.06	12130.11	13992.17	86.69
19	1800405-13 CH-AT-1RW186-0218 0.25392	Analyte	40	5.06	12400.61	13992.17	88.63
20	1800405-14 CH-AT-1FB186-0218 0.25507	Analyte	40	5.06	12723.5	13992.17	90.93
21	1800405-15 CH-AT-1RW187-0218 0.25751	Analyte	40	5.06	11577.84	13992.17	82.75
22	1800405-16 CH-AT-1FB187-0218 0.25502	Analyte	40	5.06	10514.58	13992.17	75.15
23	1800405-17 CH-AT-1RW188-0218 0.25707	Analyte	40	5.06	11376.47	13992.17	81.31
24	1800405-18 CH-AT-1FB188-0218 0.25287	Analyte	40	5.06	10860.35	13992.17	77.62
25	IPA	Analyte	40	5.06	10.905	13992.17	0.08
26	ST180307G4-2 PFC CS1 537 18B2304	Analyte	40	5.06	14568.27	13992.17	104.12
27	IPA	Analyte	40	5.06			

LC Calibration Standards Review Checklist Q1

Calibration ID:	L M H	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>ST180307G4-1</u>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>I -2</u>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Full Mass Cal. Date: 4.15.17

Run Log Present:

of Samples per Sequence Checked:

Instrument Blank Saved: NA

IIS Area Saved:

Reviewed By: MSF 3/8/18
 Initials/Date

Comments:

L14
DW

Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-2.qld

Last Altered: Thursday, March 08, 2018 10:51:02 Pacific Standard Time

Printed: Thursday, March 08, 2018 10:52:49 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

✓ KBF 3/8/18
MTI
3/8/18

Name: 180307G4_2, Date: 07-Mar-2018, Time: 18:06:16, ID: ST180307G4-1 PFC CS-1 537 18B2310, Description: PFC CS-1 537 18B2310

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	9.18e2	1.89e4	1.0000		3.01	2.98	1.39	1.90	107.5
2	2 PFHxA	313.2 > 268.9	1.34e3	1.05e4	1.0000		3.34	3.35	1.27	2.30	115.1
3	3 PFHpA	363 > 318.9	2.31e3	1.05e4	1.0000		3.86	3.86	2.19	2.33	116.6
4	4 PFHxS	398.9 > 79.6	1.07e3	1.89e4	1.0000		3.99	3.99	1.62	2.31	127.0
5	5 PFOA	413 > 368.7	1.89e3	1.05e4	1.0000		4.28	4.28	1.80	2.15	107.4
6	6 PFNA	463 > 418.8	2.50e3	1.05e4	1.0000		4.63	4.64	2.37	2.33	116.7
7	7 PFOS	499 > 79.9	1.24e3	1.89e4	1.0000		4.70	4.70	1.88	1.96	105.9
8	8 PFDA	513 > 468.8	2.25e3	1.05e4	1.0000		4.85	4.94	2.14	1.93	96.5
9	9 N-MeFOSAA	570.1 > 419.0	9.79e2	1.40e4	1.0000		5.00	5.06	2.80	2.13	106.3
10	10 N-EtFOSAA	584.2 > 419.0	8.43e2	1.40e4	1.0000		5.18	5.19	2.41	2.27	113.6
11	11 PFUnA	563 > 518.9	2.36e3	1.05e4	1.0000		5.11	5.20	2.24	2.23	111.7
12	12 PFDoA	612.9 > 318.8	3.23e2	1.05e4	1.0000		5.31	5.42	0.307	1.94	96.8
13	13 PFTrDA	662.9 > 618.9	2.92e3	1.05e4	1.0000		5.54	5.61	2.77	2.02	100.9
14	14 PFTeDA	712.9 > 668.8	2.66e3	1.05e4	1.0000		5.71	5.78	2.53	2.02	101.2
15	15 13C2-PFHxA	315 > 269.8	7.26e3	1.05e4	1.0000	0.731	3.44	3.35	6.89	9.43	94.3
16	16 13C2-PFDA	515.1 > 469.9	9.65e3	1.05e4	1.0000	0.910	4.88	4.94	9.16	10.1	100.7
17	17 d5-N-EtFOSAA	589.3 > 419.0	1.57e4	1.40e4	1.0000	1.049	5.06	5.19	45.0	42.9	107.2
18	18 13C2-PFOA	414.9 > 369.7	1.05e4	1.05e4	1.0000	1.000	4.41	4.28	10.0	10.0	100.0
19	19 13C4-PFOS	503.0 > 79.9	1.89e4	1.89e4	1.0000	1.000	4.81	4.70	28.7	28.7	100.0
20	20 d3-N-MeFOSAA	573.3 > 419.0	1.40e4	1.40e4	1.0000	1.000	5.16	5.06	40.0	40.0	100.0

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, March 08, 2018 11:02:19 Pacific Standard Time

Printed: Thursday, March 08, 2018 11:04:12 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	180307G4_1	IPA	07-Mar-18	17:53:50
2	180307G4_2	ST180307G4-1 PFC CS-1 537 18B2310	07-Mar-18	18:06:16
3	180307G4_3	IPA	07-Mar-18	18:18:41
4	180307G4_4	B8C0030-BLK1 LRB 0.25	07-Mar-18	18:31:05
5	180307G4_5	B8C0030-BS1 LFB 0.25	07-Mar-18	18:43:29
6	180307G4_6	B8C0030-BSD1 LFB 0.25	07-Mar-18	18:55:53
7	180307G4_7	1800405-01 CH-AT-1RW180-0218 0.25257	07-Mar-18	19:08:18
8	180307G4_8	1800405-02 CH-AT-1FB180-0218 0.25711	07-Mar-18	19:20:44
9	180307G4_9	1800405-03 CH-AT-1RW181-0218 0.25108	07-Mar-18	19:33:09
10	180307G4_10	1800405-04 CH-AT-1FB181-0218 0.25861	07-Mar-18	19:45:30
11	180307G4_11	1800405-05 CH-AT-1RW182-0218 0.25074	07-Mar-18	19:57:55
12	180307G4_12	1800405-06 CH-AT-1FB182-0218 0.26155	07-Mar-18	20:10:20
13	180307G4_13	1800405-07 CH-AT-1RW183-0218 0.25302	07-Mar-18	20:22:37
14	180307G4_14	1800405-08 CH-AT-1FB183-0218 0.25504	07-Mar-18	20:35:02
15	180307G4_15	1800405-09 CH-AT-1RW184-0218 0.25531	07-Mar-18	20:47:27
16	180307G4_16	1800405-10 CH-AT-1FB184-0218 0.25579	07-Mar-18	20:59:53
17	180307G4_17	1800405-11 CH-AT-1RW185-0218 0.25441	07-Mar-18	21:12:18
18	180307G4_18	1800405-12 CH-AT-1FB185-0218 0.26028	07-Mar-18	21:24:39
19	180307G4_19	1800405-13 CH-AT-1RW186-0218 0.25392	07-Mar-18	21:36:56
20	180307G4_20	1800405-14 CH-AT-1FB186-0218 0.25507	07-Mar-18	21:49:13
21	180307G4_21	1800405-15 CH-AT-1RW187-0218 0.25751	07-Mar-18	22:01:38
22	180307G4_22	1800405-16 CH-AT-1FB187-0218 0.25502	07-Mar-18	22:14:03
23	180307G4_23	1800405-17 CH-AT-1RW188-0218 0.25707	07-Mar-18	22:26:27
24	180307G4_24	1800405-18 CH-AT-1FB188-0218 0.25287	07-Mar-18	22:38:51
25	180307G4_25	IPA	07-Mar-18	22:51:17
26	180307G4_26	ST180307G4-2 PFC CS1 537 18B2304	07-Mar-18	23:03:44
27	180307G4_27	IPA	07-Mar-18	23:16:07

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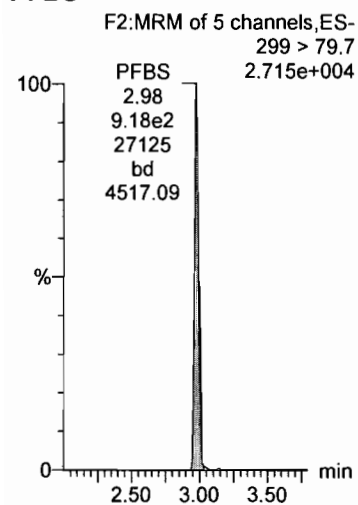
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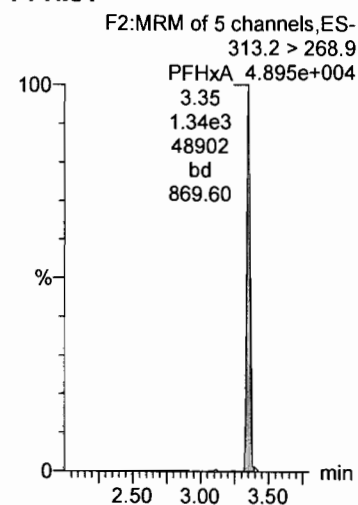
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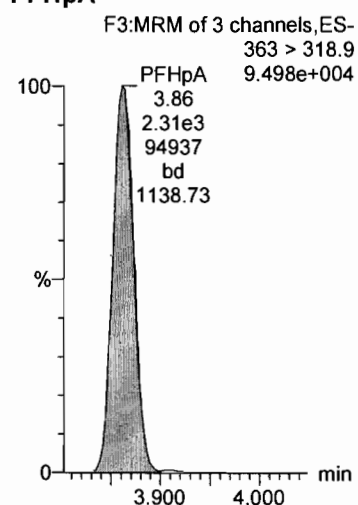
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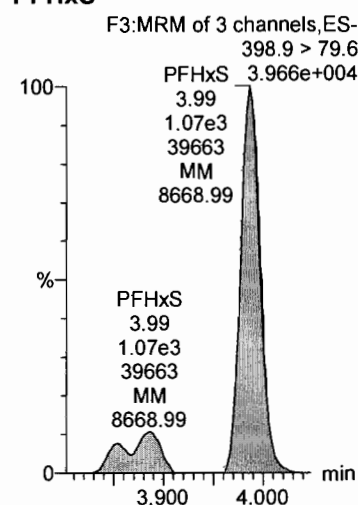
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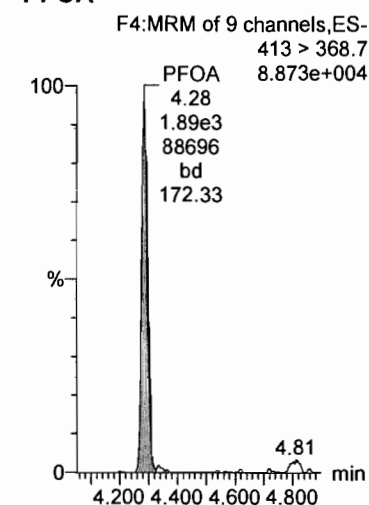
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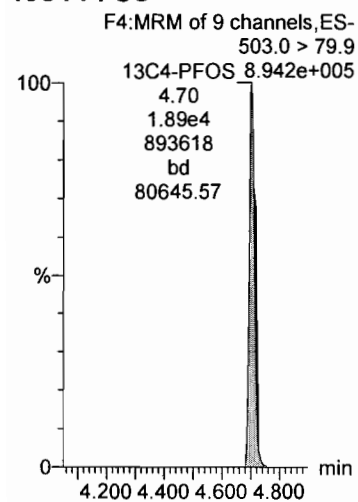
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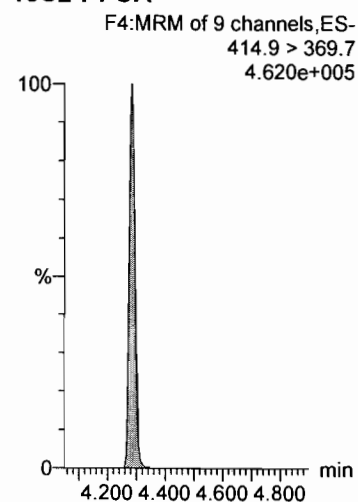
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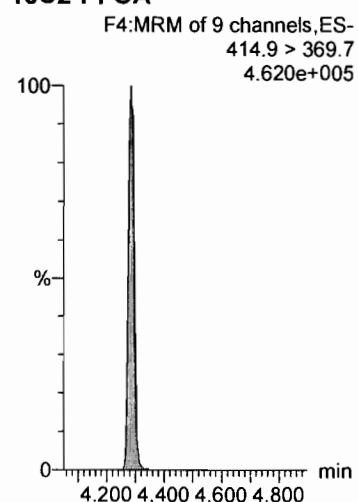
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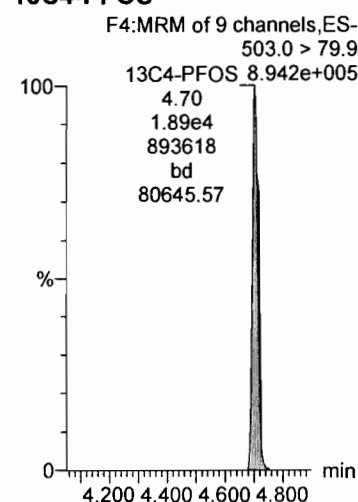
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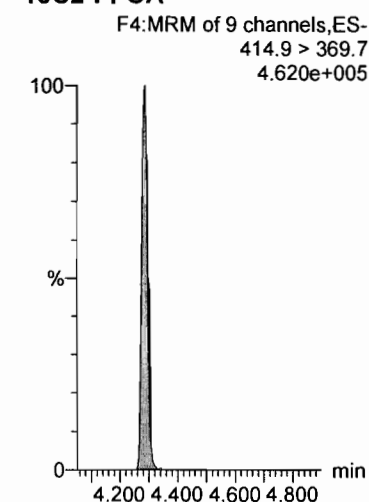
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13C4-PFOS



13C2-PFOA



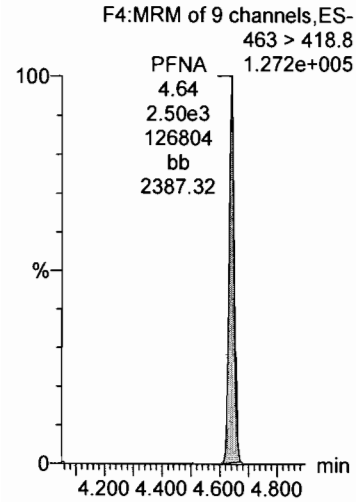
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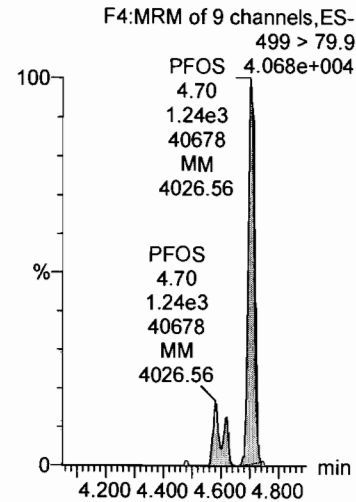
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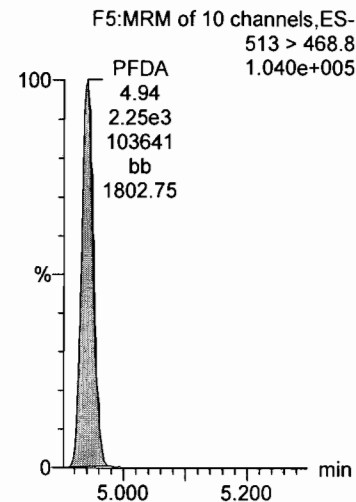
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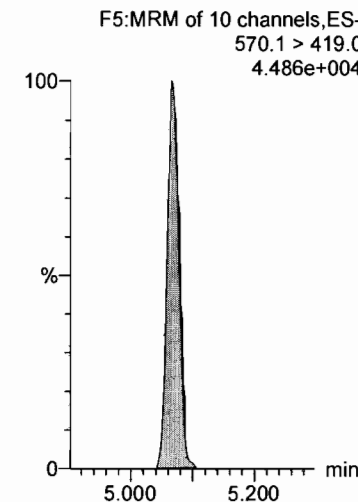
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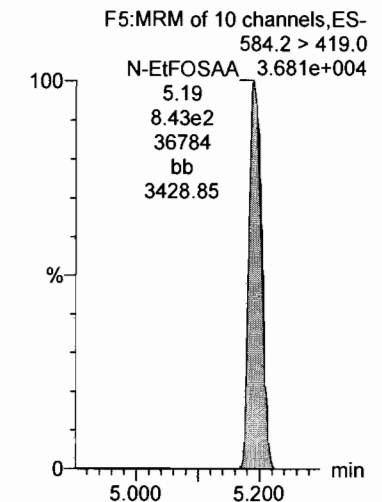
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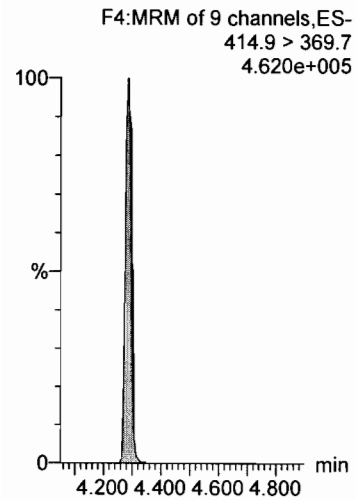
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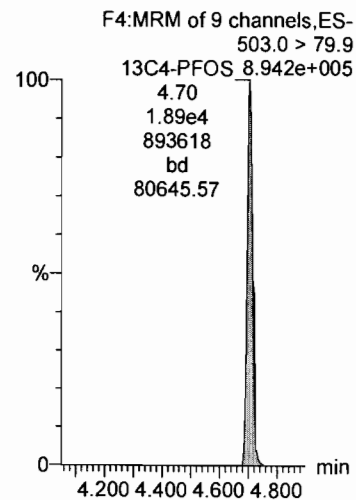
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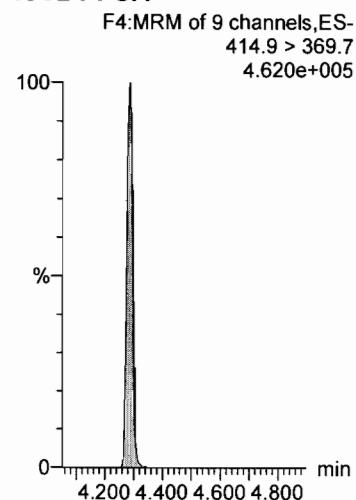
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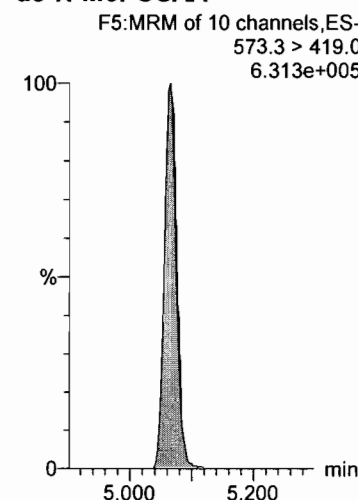
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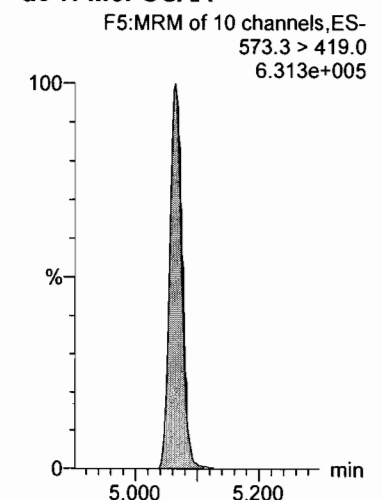
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA

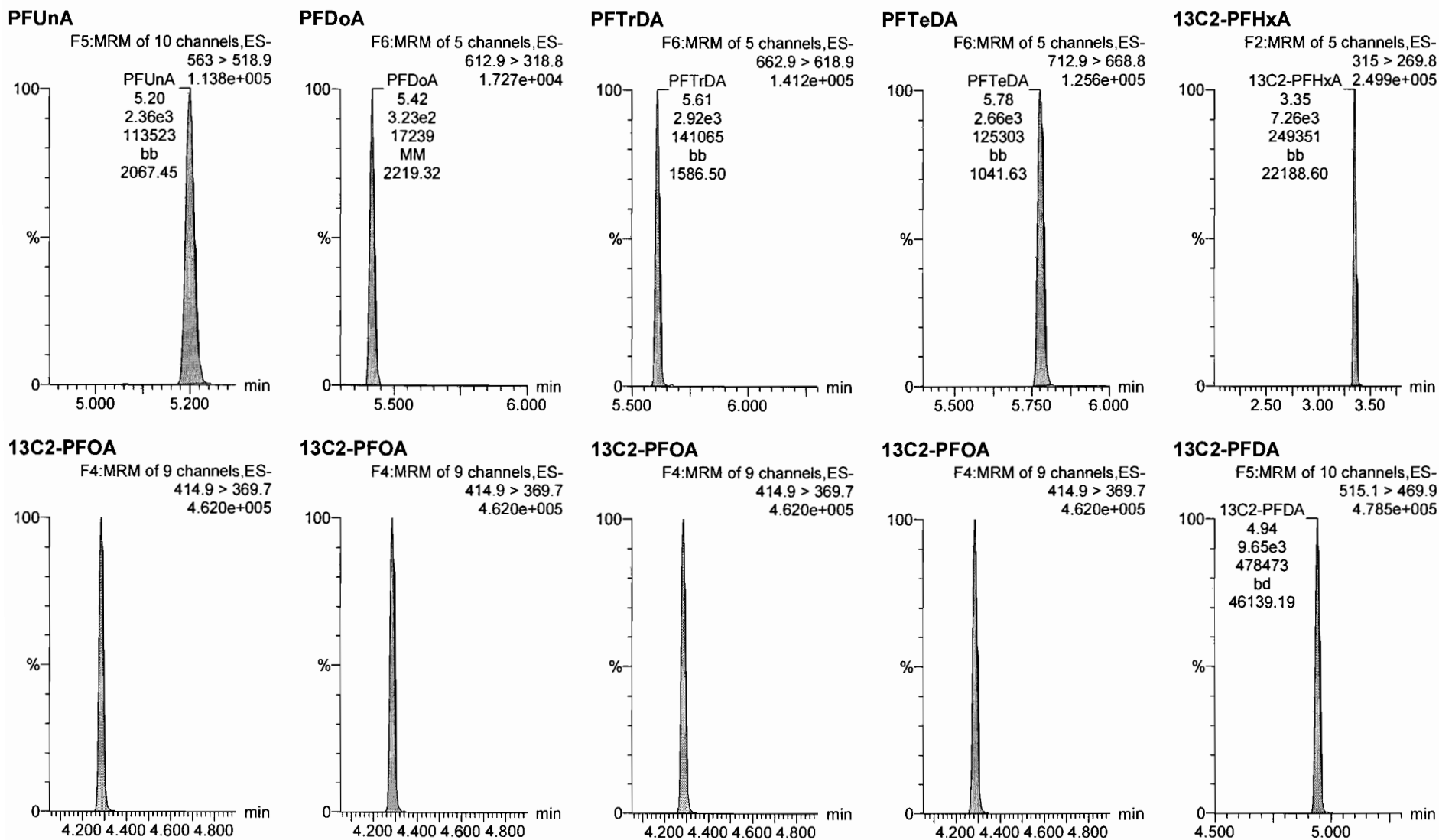


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Last Altered: Thursday, March 08, 2018 10:51:02 Pacific Standard Time

Printed: Thursday, March 08, 2018 10:52:49 Pacific Standard Time

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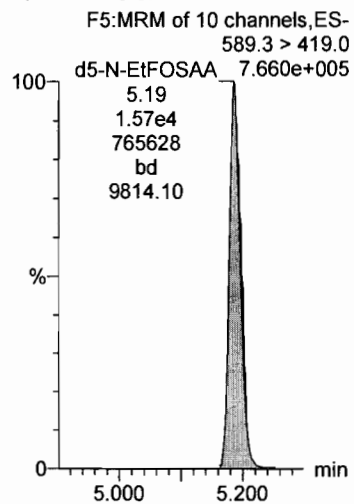
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d5-N-EtFOSAA



Dataset: X:\G1.PRO\Results\2018\180307G4\180307G4-26.qld

Last Altered: Thursday, March 08, 2018 12:14:37 Pacific Standard Time

Printed: Thursday, March 08, 2018 12:15:18 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1214.mdb 11 Jan 2018 11:50:37

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180307G4_26, Date: 07-Mar-2018, Time: 23:03:44, ID: ST180307G4-2 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304

✓ KBF 3/8/18
MJT
3/8/18

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	3.68e3	1.54e4	1.0000		3.01	2.98	6.86	9.39	106.1
2	2 PFHxA	313.2 > 268.9	4.85e3	1.07e4	1.0000		3.34	3.35	4.52	8.17	81.7
3	3 PFHpA	363 > 318.9	9.47e3	1.07e4	1.0000		3.86	3.86	8.83	9.39	93.9
4	4 PFHxS	398.9 > 79.6	4.22e3	1.54e4	1.0000		3.99	3.99	7.86	11.2	123.2
5	5 PFOA	413 > 368.7	8.28e3	1.07e4	1.0000		4.29	4.29	7.72	9.21	92.1
6	6 PFNA	463 > 418.8	1.04e4	1.07e4	1.0000		4.63	4.64	9.68	9.53	95.3
7	7 PFOS	499 > 79.9	4.41e3	1.54e4	1.0000		4.70	4.70	8.21	8.55	92.5
8	8 PFDA	513 > 468.8	9.32e3	1.07e4	1.0000		4.86	4.94	8.68	7.91	79.1
9	9 N-MeFOSAA	570.1 > 419.0	4.61e3	1.46e4	1.0000		5.01	5.07	12.6	9.47	94.7
10	10 N-EtFOSAA	584.2 > 419.0	3.70e3	1.46e4	1.0000		5.19	5.19	10.2	9.59	95.9
11	11 PFUnA	563 > 518.9	8.49e3	1.07e4	1.0000		5.12	5.20	7.91	7.88	78.8
12	12 PFDoA	612.9 > 318.8	1.46e3	1.07e4	1.0000		5.32	5.42	1.36	8.61	86.1
13	13 PFTTrDA	662.9 > 618.9	1.21e4	1.07e4	1.0000		5.55	5.61	11.3	8.20	82.0
14	14 PFTeDA	712.9 > 668.8	1.15e4	1.07e4	1.0000		5.72	5.78	10.8	8.61	86.1
15	15 13C2-PFHxA	315 > 269.8	7.18e3	1.07e4	1.0000	0.731	3.44	3.35	6.69	9.14	91.4
16	16 13C2-PFDA	515.1 > 469.9	8.60e3	1.07e4	1.0000	0.910	4.89	4.94	8.01	8.81	88.1
17	17 d5-N-EtFOSAA	589.3 > 419.0	1.23e4	1.46e4	1.0000	1.049	5.07	5.19	33.8	32.3	80.6
18	18 13C2-PFOA	414.9 > 369.7	1.07e4	1.07e4	1.0000	1.000	4.41	4.29	10.0	10.0	100.0
19	19 13C4-PFOS	503.0 > 79.9	1.54e4	1.54e4	1.0000	1.000	4.81	4.70	28.7	28.7	100.0
20	20 d3-N-MeFOSAA	573.3 > 419.0	1.46e4	1.46e4	1.0000	1.000	5.16	5.07	40.0	40.0	100.0

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, March 08, 2018 11:02:19 Pacific Standard Time

Printed: Thursday, March 08, 2018 11:04:12 Pacific Standard Time

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 Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	180307G4_1	IPA	07-Mar-18	17:53:50
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3	180307G4_3	IPA	07-Mar-18	18:18:41
4	180307G4_4	B8C0030-BLK1 LRB 0.25	07-Mar-18	18:31:05
5	180307G4_5	B8C0030-BS1 LFB 0.25	07-Mar-18	18:43:29
6	180307G4_6	B8C0030-BSD1 LFB 0.25	07-Mar-18	18:55:53
7	180307G4_7	1800405-01 CH-AT-1RW180-0218 0.25257	07-Mar-18	19:08:18
8	180307G4_8	1800405-02 CH-AT-1FB180-0218 0.25711	07-Mar-18	19:20:44
9	180307G4_9	1800405-03 CH-AT-1RW181-0218 0.25108	07-Mar-18	19:33:09
10	180307G4_10	1800405-04 CH-AT-1FB181-0218 0.25861	07-Mar-18	19:45:30
11	180307G4_11	1800405-05 CH-AT-1RW182-0218 0.25074	07-Mar-18	19:57:55
12	180307G4_12	1800405-06 CH-AT-1FB182-0218 0.26155	07-Mar-18	20:10:20
13	180307G4_13	1800405-07 CH-AT-1RW183-0218 0.25302	07-Mar-18	20:22:37
14	180307G4_14	1800405-08 CH-AT-1FB183-0218 0.25504	07-Mar-18	20:35:02
15	180307G4_15	1800405-09 CH-AT-1RW184-0218 0.25531	07-Mar-18	20:47:27
16	180307G4_16	1800405-10 CH-AT-1FB184-0218 0.25579	07-Mar-18	20:59:53
17	180307G4_17	1800405-11 CH-AT-1RW185-0218 0.25441	07-Mar-18	21:12:18
18	180307G4_18	1800405-12 CH-AT-1FB185-0218 0.26028	07-Mar-18	21:24:39
19	180307G4_19	1800405-13 CH-AT-1RW186-0218 0.25392	07-Mar-18	21:36:56
20	180307G4_20	1800405-14 CH-AT-1FB186-0218 0.25507	07-Mar-18	21:49:13
21	180307G4_21	1800405-15 CH-AT-1RW187-0218 0.25751	07-Mar-18	22:01:38
22	180307G4_22	1800405-16 CH-AT-1FB187-0218 0.25502	07-Mar-18	22:14:03
23	180307G4_23	1800405-17 CH-AT-1RW188-0218 0.25707	07-Mar-18	22:26:27
24	180307G4_24	1800405-18 CH-AT-1FB188-0218 0.25287	07-Mar-18	22:38:51
25	180307G4_25	IPA	07-Mar-18	22:51:17
26	180307G4_26	ST180307G4-2 PFC CS1 537 18B2304	07-Mar-18	23:03:44
27	180307G4_27	IPA	07-Mar-18	23:16:07

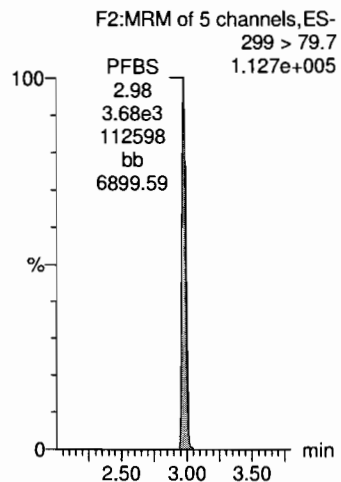
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Printed: Thursday, March 08, 2018 12:15:18 Pacific Standard Time

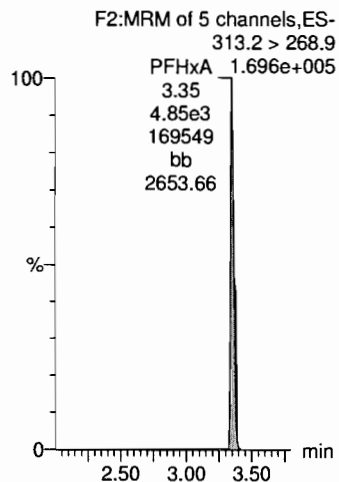
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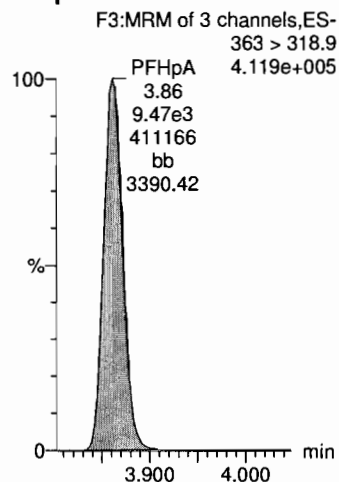
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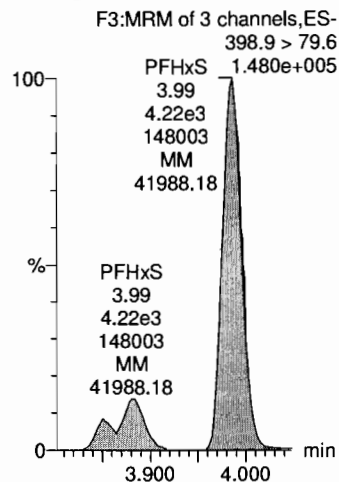
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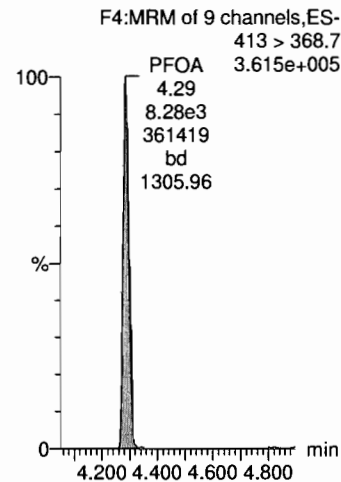
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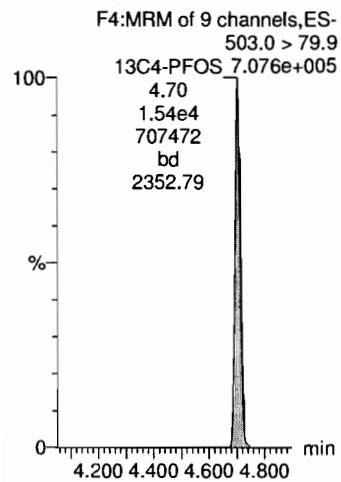
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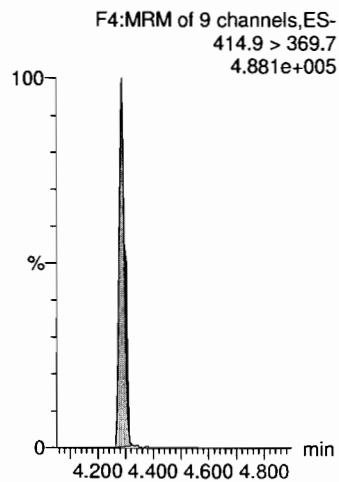
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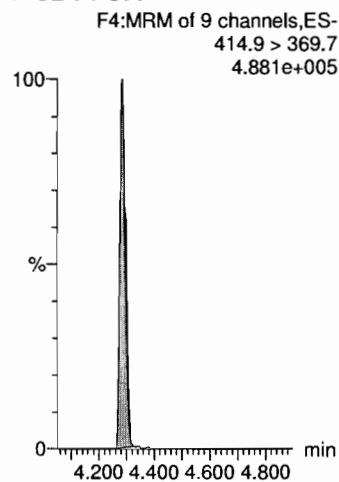
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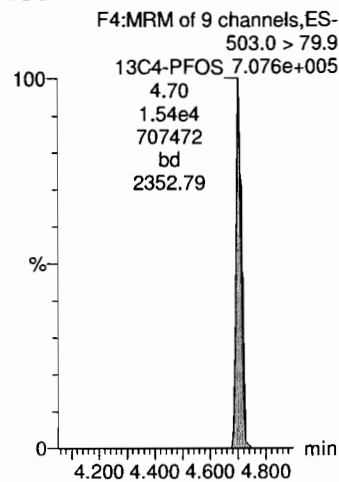
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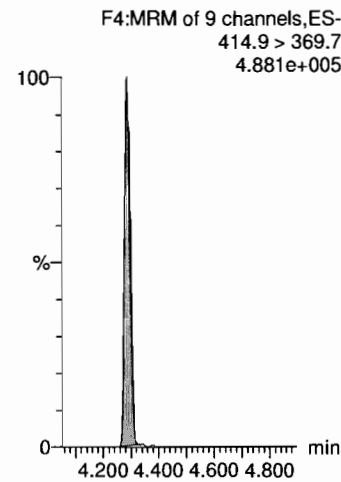
13C2-PFOA



13C4-PFOS



13C2-PFOA



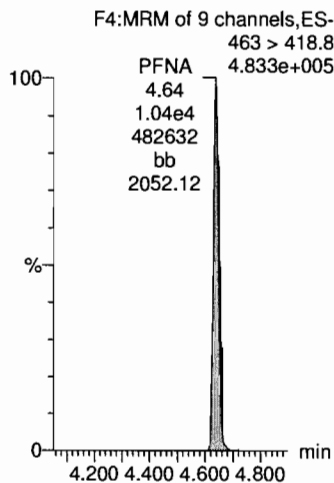
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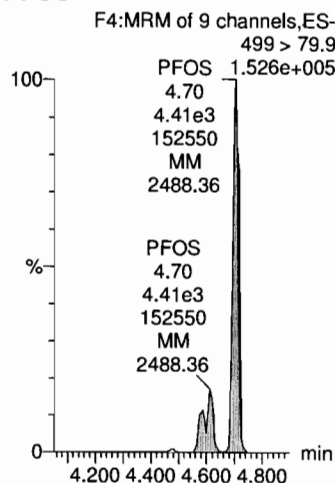
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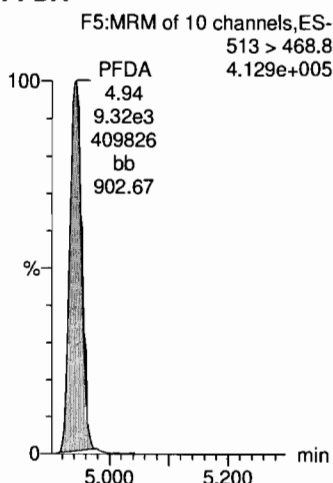
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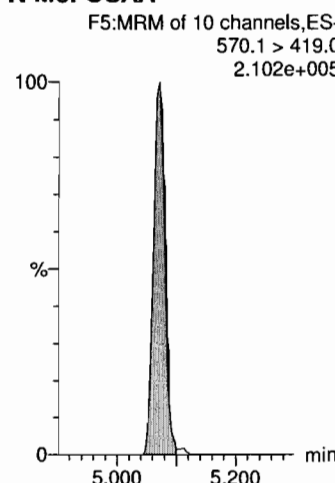
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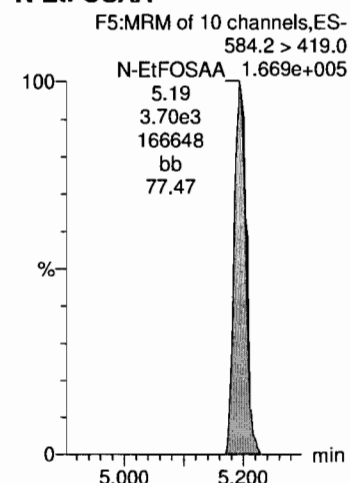
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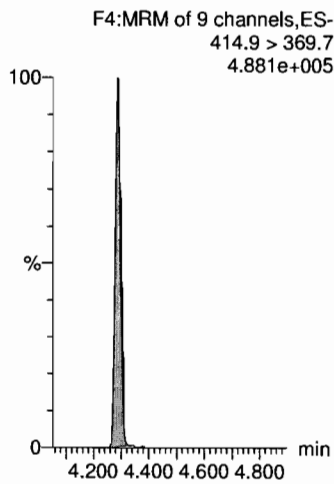
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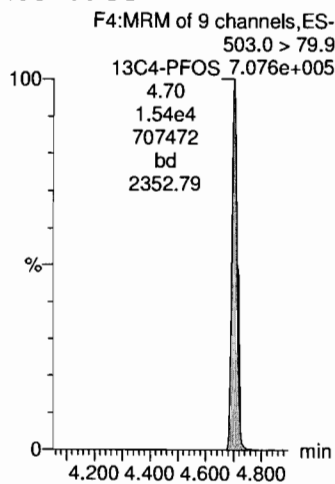
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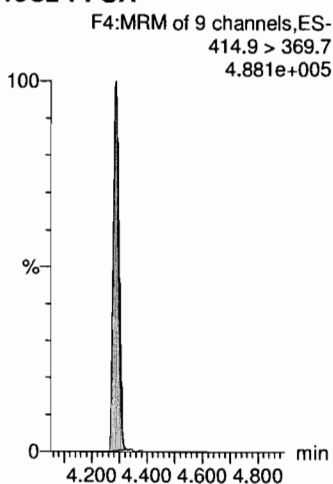
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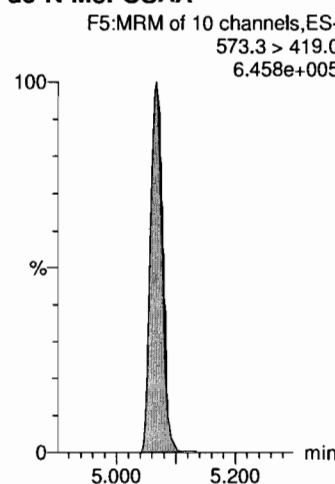
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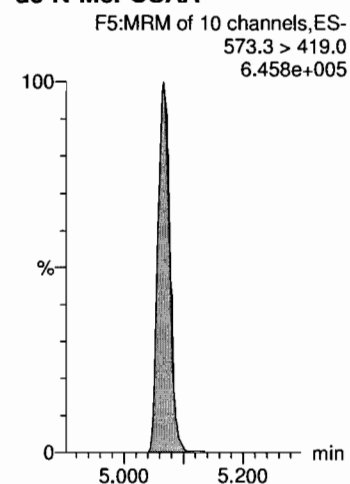
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d3-N-MeFOSAA



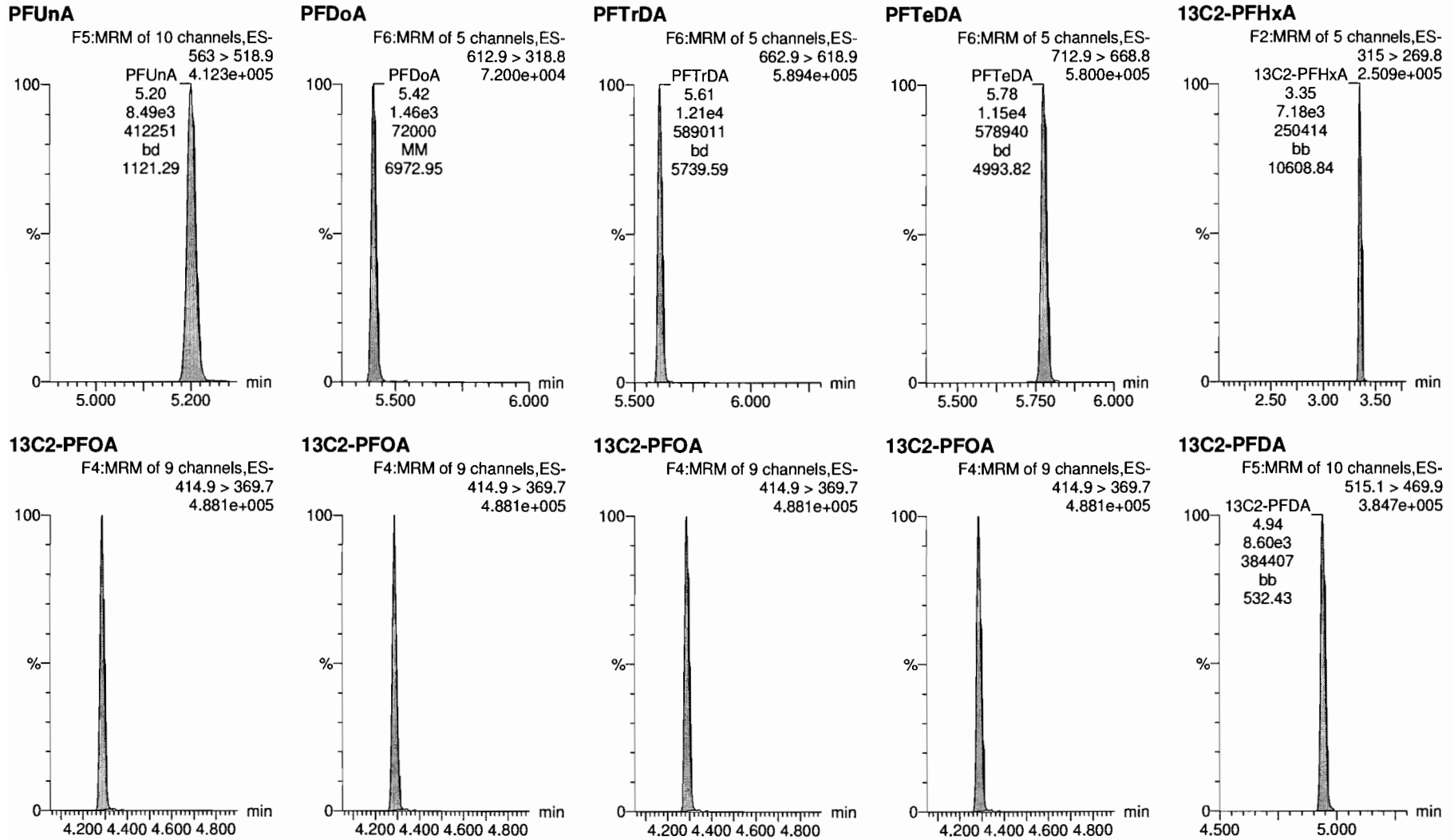
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Last Altered: Thursday, March 08, 2018 12:14:37 Pacific Standard Time
Printed: Thursday, March 08, 2018 12:15:18 Pacific Standard Time

Name: 180307G4_26, Date: 07-Mar-2018, Time: 23:03:44, ID: ST180307G4-2 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304



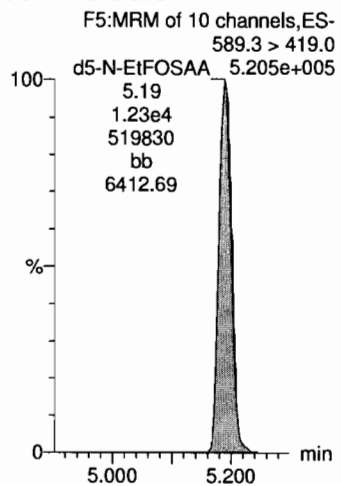
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Last Altered: Thursday, March 08, 2018 12:14:37 Pacific Standard Time

Printed: Thursday, March 08, 2018 12:15:18 Pacific Standard Time

Name: 180307G4_26, Date: 07-Mar-2018, Time: 23:03:44, ID: ST180307G4-2 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304

d5-N-EtFOSAA



ICAL

Compound 18: 13C2-PFOA

ID	Name	Type	Std. RT	Area	Ical Area	Area %
14 1800405-04 CH-AT-1FB181-0218 0.25861	180308G4_14	Analyte	10 4.27	6895.883	8057.86	85.58
15 1800405-07 CH-AT-1RW183-0218 0.25302	180308G4_15	Analyte	10 4.27	6790.119	8057.86	84.27
16 1800405-12 CH-AT-1FB185-0218 0.26028	180308G4_16	Analyte	10 4.27	7340.062	8057.86	91.09
17 1800405-14 CH-AT-1FB186-0218 0.25507	180308G4_17	Analyte	10 4.27	7433.499	8057.86	92.25
18 1800405-15 CH-AT-1RW187-0218 0.25751	180308G4_18	Analyte	10 4.27	7543.705	8057.86	93.62
19 1800405-16 CH-AT-1FB187-0218 0.25502	180308G4_19	Analyte	10 4.27	7097.87	8057.86	88.09
20 B8C0031-BLK1 LRB 0.25	180308G4_20	Analyte	10 4.27	8015.923	8057.86	99.48
21 B8C0031-BS1 LFB 0.25	180308G4_21	Analyte	10 4.27	7259.88	8057.86	90.10
22 B8C0031-MS1 LFSM 0.25052	180308G4_22	Analyte	10 4.27	7940.628	8057.86	98.55
23 B8C0031-MSD1 LFSMD 0.25168	180308G4_23	Analyte	10 4.27	7694.385	8057.86	95.49
24 IPA	180308G4_24	Analyte	10		8057.86	0.00
25 ST180308G4-10 PFC CS2 537 18B2305	180308G4_25	Analyte	10 4.27	8343.02	8057.86	103.54
26 IPA	180308G4_26	Analyte	10 4.28	7.464	8057.86	0.09
27 1800407-01 CH-AT-1RW171-0218 0.2499	180308G4_27	Analyte	10 4.27	7599.496	8057.86	94.31
28 1800407-02 CH-AT-1FB171-0218 0.2499	180308G4_28	Analyte	10 4.27	8451.056	8057.86	104.88
29 1800407-03 CH-AT-1RW172-0218 0.25125	180308G4_29	Analyte	10 4.27	8209.837	8057.86	101.89
30 1800407-04 CH-AT-1FB172-0218 0.25357	180308G4_30	Analyte	10 4.27	7549.996	8057.86	93.70
31 1800407-05 CH-AT-1RW173-0218 0.26012	180308G4_31	Analyte	10 4.27	8101.225	8057.86	100.54
32 1800407-06 CH-AT-1FB173-0218 0.25656	180308G4_32	Analyte	10 4.27	7578.56	8057.86	94.05
33 1800407-07 CH-AT-1RW174-0218 0.25296	180308G4_33	Analyte	10 4.27	8463.024	8057.86	105.03
34 1800407-08 CH-AT-1FB174-0218 0.25404	180308G4_34	Analyte	10 4.27	7429.209	8057.86	92.20
35 1800407-09 CH-AT-1RW175-0218 0.25976	180308G4_35	Analyte	10 4.27	7612.481	8057.86	94.47
36 1800407-10 CH-AT-1FB175-0218 0.2554	180308G4_36	Analyte	10 4.27	8129.998	8057.86	100.90
37 1800407-11 CH-AT-1RW176-0218 0.25181	180308G4_37	Analyte	10 4.27	8987.971	8057.86	111.54
38 1800407-12 CH-AT-1FB176-0218 0.24655	180308G4_38	Analyte	10 4.27	7666.222	8057.86	95.14
39 1800407-13 CH-AT-1RW177-0218 0.25466	180308G4_39	Analyte	10 4.27	8788.082	8057.86	109.06
40 1800407-14 CH-AT-1FB177-0218 0.25039	180308G4_40	Analyte	10 4.27	8366.242	8057.86	103.83
41 1800407-15 CH-AT-1RW178-0218 0.24978	180308G4_41	Analyte	10 4.27	8381.275	8057.86	104.01
42 1800407-16 CH-AT-1FB178-0218 0.2499	180308G4_42	Analyte	10 4.27	7948.727	8057.86	98.65

43	1800407-17 CH-AT-1RW179-0218 0.25201	180308G4_43	Analyte	10	4.27	7268.468	8057.86	90.20
44	1800407-18 CH-AT-1FB179-0218 0.24788	180308G4_44	Analyte	10	4.27	7398.557	8057.86	91.82
45	IPA	180308G4_45	Analyte	10			8057.86	0.00
46	ST180308G4-11 PFC CS4 537 18B2307	180308G4_46	Analyte	10	4.27	8153.382	8057.86	101.19
47	IPA	180308G4_47	Analyte	10	4.28	8.886	8057.86	0.11

Compound 19: 13C4-PFOS

ID	Name	Type	Std. RT	Area	Ical Area	Area %	
14	1800405-04 CH-AT-1FB181-0218 0.25861	180308G4_14	29	4.68	15136.67	17595.32	86.03
15	1800405-07 CH-AT-1RW183-0218 0.25302	180308G4_15	29	4.68	14383.48	17595.32	81.75
16	1800405-12 CH-AT-1FB185-0218 0.26028	180308G4_16	29	4.68	13686.11	17595.32	77.78
17	1800405-14 CH-AT-1FB186-0218 0.25507	180308G4_17	29	4.68	13180.06	17595.32	74.91
18	1800405-15 CH-AT-1RW187-0218 0.25751	180308G4_18	29	4.68	14618.4	17595.32	83.08
19	1800405-16 CH-AT-1FB187-0218 0.25502	180308G4_19	29	4.68	14599.07	17595.32	82.97
20	B8C0031-BLK1 LRB 0.25	180308G4_20	29	4.68	13774.99	17595.32	78.29
21	B8C0031-BS1 LFB 0.25	180308G4_21	29	4.68	14558.87	17595.32	82.74
22	B8C0031-MS1 LFSM 0.25052	180308G4_22	29	4.68	13743.53	17595.32	78.11
23	B8C0031-MSD1 LFSMD 0.25168	180308G4_23	29	4.68	13373.75	17595.32	76.01
24	IPA	180308G4_24	29	4.68	9.194	17595.32	0.05
25	ST180308G4-10 PFC CS2 537 18B2305	180308G4_25	29	4.68	16386.49	17595.32	93.13
26	IPA	180308G4_26	29			17595.32	0.00
27	1800407-01 CH-AT-1RW171-0218 0.2499	180308G4_27	29	4.68	13688.48	17595.32	77.80
28	1800407-02 CH-AT-1FB171-0218 0.2499	180308G4_28	29	4.68	15018.58	17595.32	85.36
29	1800407-03 CH-AT-1RW172-0218 0.25125	180308G4_29	29	4.68	15178.58	17595.32	86.26
30	1800407-04 CH-AT-1FB172-0218 0.25357	180308G4_30	29	4.68	14656.66	17595.32	83.30
31	1800407-05 CH-AT-1RW173-0218 0.26012	180308G4_31	29	4.68	15946.37	17595.32	90.63
32	1800407-06 CH-AT-1FB173-0218 0.25656	180308G4_32	29	4.68	13557.23	17595.32	77.05
33	1800407-07 CH-AT-1RW174-0218 0.25296	180308G4_33	29	4.68	15637.41	17595.32	88.87
34	1800407-08 CH-AT-1FB174-0218 0.25404	180308G4_34	29	4.68	14193.19	17595.32	80.66
35	1800407-09 CH-AT-1RW175-0218 0.25976	180308G4_35	29	4.68	14678.41	17595.32	83.42
36	1800407-10 CH-AT-1FB175-0218 0.2554	180308G4_36	29	4.68	14340.85	17595.32	81.50
37	1800407-11 CH-AT-1RW176-0218 0.25181	180308G4_37	29	4.68	15639.91	17595.32	88.89
38	1800407-12 CH-AT-1FB176-0218 0.24655	180308G4_38	29	4.68	14212.74	17595.32	80.78

39	1800407-13	CH-AT-1RW177-0218	0.25466	180308G4_39	Analyte	29	4.68	16135.49	17595.32	91.70
40	1800407-14	CH-AT-1FB177-0218	0.25039	180308G4_40	Analyte	29	4.68	15400.62	17595.32	87.53
41	1800407-15	CH-AT-1RW178-0218	0.24978	180308G4_41	Analyte	29	4.68	14644.46	17595.32	83.23
42	1800407-16	CH-AT-1FB178-0218	0.2499	180308G4_42	Analyte	29	4.68	15098.53	17595.32	85.81
43	1800407-17	CH-AT-1RW179-0218	0.25201	180308G4_43	Analyte	29	4.68	14289.65	17595.32	81.21
44	1800407-18	CH-AT-1FB179-0218	0.24788	180308G4_44	Analyte	29	4.68	13550.1	17595.32	77.01
45	IPA			180308G4_45	Analyte	29			17595.32	0.00
46	ST180308G4-11	PFC CS4 537 18B2307		180308G4_46	Analyte	29	4.68	15317.96	17595.32	87.06
47	IPA			180308G4_47	Analyte	29			17595.32	0.00

Compound 20: d3-N-MeFOSAA

ID	Name	Type	Std. RT	Area	Ical Area	Area %				
14	1800405-04 CH-AT-1FB181-0218	0.25861	180308G4_14	Analyte	40	5.04	11779.31	15789.62	74.60	
15	1800405-07 CH-AT-1RW183-0218	0.25302	180308G4_15	Analyte	40	5.04	11578.7	15789.62	73.33	
16	1800405-12 CH-AT-1FB185-0218	0.26028	180308G4_16	Analyte	40	5.04	12765.26	15789.62	80.85	
17	1800405-14 CH-AT-1FB186-0218	0.25507	180308G4_17	Analyte	40	5.04	12542.64	15789.62	79.44	
18	1800405-15 CH-AT-1RW187-0218	0.25751	180308G4_18	Analyte	40	5.05	11632.48	15789.62	73.67	
19	1800405-16 CH-AT-1FB187-0218	0.25502	180308G4_19	Analyte	40	5.05	12057.94	15789.62	76.37	
20	B8C0031-BLK1 LRB	0.25	180308G4_20	Analyte	40	5.04	11728.54	15789.62	74.28	
21	B8C0031-BS1 LFB	0.25	180308G4_21	Analyte	40	5.04	13291.73	15789.62	84.18	
22	B8C0031-MS1 LFSM	0.25052	180308G4_22	Analyte	40	5.04	11818.53	15789.62	74.85	
23	B8C0031-MSD1 LFSMD	0.25168	180308G4_23	Analyte	40	5.04	11947.83	15789.62	75.67	
24	IPA		180308G4_24	Analyte	40			15789.62	0.00	
25	ST180308G4-10	PFC CS2 537 18B2305	180308G4_25	Analyte	40	5.04	13622.84	15789.62	86.28	
26	IPA		180308G4_26	Analyte	40			15789.62	0.00	
27	1800407-01	CH-AT-1RW171-0218	0.2499	180308G4_27	Analyte	40	5.04	11527.62	15789.62	73.01
28	1800407-02	CH-AT-1FB171-0218	0.2499	180308G4_28	Analyte	40	5.04	11506.19	15789.62	72.87
29	1800407-03	CH-AT-1RW172-0218	0.25125	180308G4_29	Analyte	40	5.04	11934.41	15789.62	75.58
30	1800407-04	CH-AT-1FB172-0218	0.25357	180308G4_30	Analyte	40	5.05	13245.09	15789.62	83.88
31	1800407-05	CH-AT-1RW173-0218	0.26012	180308G4_31	Analyte	40	5.04	12165.37	15789.62	77.05
32	1800407-06	CH-AT-1FB173-0218	0.25656	180308G4_32	Analyte	40	5.04	11929.74	15789.62	75.55
33	1800407-07	CH-AT-1RW174-0218	0.25296	180308G4_33	Analyte	40	5.04	11961.02	15789.62	75.75
34	1800407-08	CH-AT-1FB174-0218	0.25404	180308G4_34	Analyte	40	5.04	12192.59	15789.62	77.22

35	1800407-09 CH-AT-1RW175-0218 0.25976	180308G4_35	Analyte	40	5.04	11502.77	15789.62	72.85
36	1800407-10 CH-AT-1FB175-0218 0.2554	180308G4_36	Analyte	40	5.04	13168.55	15789.62	83.40
37	1800407-11 CH-AT-1RW176-0218 0.25181	180308G4_37	Analyte	40	5.04	11613.30	15789.62	73.55
38	1800407-12 CH-AT-1FB176-0218 0.24655	180308G4_38	Analyte	40	5.04	10947.85	15789.62	69.34
39	1800407-13 CH-AT-1RW177-0218 0.25466	180308G4_39	Analyte	40	5.05	11746.88	15789.62	74.40
40	1800407-14 CH-AT-1FB177-0218 0.25039	180308G4_40	Analyte	40	5.04	12746.4	15789.62	80.73
41	1800407-15 CH-AT-1RW178-0218 0.24978	180308G4_41	Analyte	40	5.04	13382.59	15789.62	84.76
42	1800407-16 CH-AT-1FB178-0218 0.2499	180308G4_42	Analyte	40	5.04	11973.47	15789.62	75.83
43	1800407-17 CH-AT-1RW179-0218 0.25201	180308G4_43	Analyte	40	5.04	11269.19	15789.62	71.37
44	1800407-18 CH-AT-1FB179-0218 0.24788	180308G4_44	Analyte	40	5.04	10800.51	15789.62	68.40
45	IPA	180308G4_45	Analyte	40			15789.62	0.00
46	ST180308G4-11 PFC CS4 537 18B2307	180308G4_46	Analyte	40	5.04	12728.57	15789.62	80.61
47	IPA	180308G4_47	Analyte	40			15789.62	0.00

CCAL

Compound 18: 13C2-PFOA

ST180308G4-10 PFC CS2 537 18B2305

ID	Name	Type	Std. RT	Area	Ccal Area	Area %		
25	ST180308G4-10 PFC CS2 537 18B2305	180308G4_25	Analyte	10	4.27	8343.02	8343.02	100.00
26	IPA	180308G4_26	Analyte	10	4.28	7.464	8343.02	0.09
27	1800407-01 CH-AT-1RW171-0218 0.2499	180308G4_27	Analyte	10	4.27	7599.496	8343.02	91.09
28	1800407-02 CH-AT-1FB171-0218 0.2499	180308G4_28	Analyte	10	4.27	8451.056	8343.02	101.29
29	1800407-03 CH-AT-1RW172-0218 0.25125	180308G4_29	Analyte	10	4.27	8209.837	8343.02	98.40
30	1800407-04 CH-AT-1FB172-0218 0.25357	180308G4_30	Analyte	10	4.27	7549.996	8343.02	90.49
31	1800407-05 CH-AT-1RW173-0218 0.26012	180308G4_31	Analyte	10	4.27	8101.225	8343.02	97.10
32	1800407-06 CH-AT-1FB173-0218 0.25656	180308G4_32	Analyte	10	4.27	7578.56	8343.02	90.84
33	1800407-07 CH-AT-1RW174-0218 0.25296	180308G4_33	Analyte	10	4.27	8463.024	8343.02	101.44
34	1800407-08 CH-AT-1FB174-0218 0.25404	180308G4_34	Analyte	10	4.27	7429.209	8343.02	89.05
35	1800407-09 CH-AT-1RW175-0218 0.25976	180308G4_35	Analyte	10	4.27	7612.481	8343.02	91.24
36	1800407-10 CH-AT-1FB175-0218 0.2554	180308G4_36	Analyte	10	4.27	8129.998	8343.02	97.45
37	1800407-11 CH-AT-1RW176-0218 0.25181	180308G4_37	Analyte	10	4.27	8987.971	8343.02	107.73
38	1800407-12 CH-AT-1FB176-0218 0.24655	180308G4_38	Analyte	10	4.27	7666.222	8343.02	91.89
39	1800407-13 CH-AT-1RW177-0218 0.25466	180308G4_39	Analyte	10	4.27	8788.082	8343.02	105.33

40	1800407-14 CH-AT-1FB177-0218 0.25039	180308G4_40	Analyte	10	4.27	8366.242	8343.02	100.28
41	1800407-15 CH-AT-1RW178-0218 0.24978	180308G4_41	Analyte	10	4.27	8381.275	8343.02	100.46
42	1800407-16 CH-AT-1FB178-0218 0.2499	180308G4_42	Analyte	10	4.27	7948.727	8343.02	95.27
43	1800407-17 CH-AT-1RW179-0218 0.25201	180308G4_43	Analyte	10	4.27	7268.468	8343.02	87.12
44	1800407-18 CH-AT-1FB179-0218 0.24788	180308G4_44	Analyte	10	4.27	7398.557	8343.02	88.68
45	IPA	180308G4_45	Analyte	10			8343.02	0.00
46	ST180308G4-11 PFC CS4 537 18B2307	180308G4_46	Analyte	10	4.27	8153.382	8343.02	97.73
47	IPA	180308G4_47	Analyte	10	4.28	8.886	8343.02	0.11

CCAL

Compound 19: 13C4-PFOS

ST180308G4-10 PFC CS2 537 18B2305

ID	Name	Type	Std.	RT	Area	Ccal Area	Area %	
25	ST180308G4-10 PFC CS2 537 18B2305	180308G4_25	Analyte	29	4.68	16386.49	16386.49	100.00
26	IPA	180308G4_26	Analyte	29			16386.49	0.00
27	1800407-01 CH-AT-1RW171-0218 0.2499	180308G4_27	Analyte	29	4.68	13688.48	16386.49	83.54
28	1800407-02 CH-AT-1FB171-0218 0.2499	180308G4_28	Analyte	29	4.68	15018.58	16386.49	91.65
29	1800407-03 CH-AT-1RW172-0218 0.25125	180308G4_29	Analyte	29	4.68	15178.58	16386.49	92.63
30	1800407-04 CH-AT-1FB172-0218 0.25357	180308G4_30	Analyte	29	4.68	14656.66	16386.49	89.44
31	1800407-05 CH-AT-1RW173-0218 0.26012	180308G4_31	Analyte	29	4.68	15946.37	16386.49	97.31
32	1800407-06 CH-AT-1FB173-0218 0.25656	180308G4_32	Analyte	29	4.68	13557.23	16386.49	82.73
33	1800407-07 CH-AT-1RW174-0218 0.25296	180308G4_33	Analyte	29	4.68	15637.41	16386.49	95.43
34	1800407-08 CH-AT-1FB174-0218 0.25404	180308G4_34	Analyte	29	4.68	14193.19	16386.49	86.62
35	1800407-09 CH-AT-1RW175-0218 0.25976	180308G4_35	Analyte	29	4.68	14678.41	16386.49	89.58
36	1800407-10 CH-AT-1FB175-0218 0.2554	180308G4_36	Analyte	29	4.68	14340.85	16386.49	87.52
37	1800407-11 CH-AT-1RW176-0218 0.25181	180308G4_37	Analyte	29	4.68	15639.91	16386.49	95.44
38	1800407-12 CH-AT-1FB176-0218 0.24655	180308G4_38	Analyte	29	4.68	14212.74	16386.49	86.73
39	1800407-13 CH-AT-1RW177-0218 0.25466	180308G4_39	Analyte	29	4.68	16135.49	16386.49	98.47
40	1800407-14 CH-AT-1FB177-0218 0.25039	180308G4_40	Analyte	29	4.68	15400.62	16386.49	93.98
41	1800407-15 CH-AT-1RW178-0218 0.24978	180308G4_41	Analyte	29	4.68	14644.46	16386.49	89.37
42	1800407-16 CH-AT-1FB178-0218 0.2499	180308G4_42	Analyte	29	4.68	15098.53	16386.49	92.14
43	1800407-17 CH-AT-1RW179-0218 0.25201	180308G4_43	Analyte	29	4.68	14289.65	16386.49	87.20
44	1800407-18 CH-AT-1FB179-0218 0.24788	180308G4_44	Analyte	29	4.68	13550.1	16386.49	82.69
45	IPA	180308G4_45	Analyte	29			16386.49	0.00
46	ST180308G4-11 PFC CS4 537 18B2307	180308G4_46	Analyte	29	4.68	15317.96	16386.49	93.48
47	IPA	180308G4_47	Analyte	29			16386.49	0.00

CCAL

Compound 20: d3-N-MeFOSAA

ST180308G4-10 PFC CS2 537 18B2305

ID	Name	Type	Std. RT	Area	Ccal Area	Area %
25 ST180308G4-10 PFC CS2 537 18B2305	180308G4_25	STANDARD	40 5.04	13622.84	13622.84	100.00
26 IPA	180308G4_26	Analyte	40		13622.84	0.00
27 1800407-01 CH-AT-1RW171-0218 0.2499	180308G4_27	Analyte	40 5.04	11527.62	13622.84	84.62
28 1800407-02 CH-AT-1FB171-0218 0.2499	180308G4_28	Analyte	40 5.04	11506.19	13622.84	84.46
29 1800407-03 CH-AT-1RW172-0218 0.25125	180308G4_29	Analyte	40 5.04	11934.41	13622.84	87.61
30 1800407-04 CH-AT-1FB172-0218 0.25357	180308G4_30	Analyte	40 5.05	13245.09	13622.84	97.23
31 1800407-05 CH-AT-1RW173-0218 0.26012	180308G4_31	Analyte	40 5.04	12165.37	13622.84	89.30
32 1800407-06 CH-AT-1FB173-0218 0.25656	180308G4_32	Analyte	40 5.04	11929.74	13622.84	87.57
33 1800407-07 CH-AT-1RW174-0218 0.25296	180308G4_33	Analyte	40 5.04	11961.02	13622.84	87.80
34 1800407-08 CH-AT-1FB174-0218 0.25404	180308G4_34	Analyte	40 5.04	12192.59	13622.84	89.50
35 1800407-09 CH-AT-1RW175-0218 0.25976	180308G4_35	Analyte	40 5.04	11502.77	13622.84	84.44
36 1800407-10 CH-AT-1FB175-0218 0.2554	180308G4_36	Analyte	40 5.04	13168.55	13622.84	96.67
37 1800407-11 CH-AT-1RW176-0218 0.25181	180308G4_37	Analyte	40 5.04	11613.3	13622.84	85.25
38 1800407-12 CH-AT-1FB176-0218 0.24655	180308G4_38	Analyte	40 5.04	10947.85	13622.84	80.36
39 1800407-13 CH-AT-1RW177-0218 0.25466	180308G4_39	Analyte	40 5.05	11746.88	13622.84	86.23
40 1800407-14 CH-AT-1FB177-0218 0.25039	180308G4_40	Analyte	40 5.04	12746.4	13622.84	93.57
41 1800407-15 CH-AT-1RW178-0218 0.24978	180308G4_41	Analyte	40 5.04	13382.59	13622.84	98.24
42 1800407-16 CH-AT-1FB178-0218 0.2499	180308G4_42	Analyte	40 5.04	11973.47	13622.84	87.89
43 1800407-17 CH-AT-1RW179-0218 0.25201	180308G4_43	Analyte	40 5.04	11269.19	13622.84	82.72
44 1800407-18 CH-AT-1FB179-0218 0.24788	180308G4_44	Analyte	40 5.04	10800.51	13622.84	79.28
45 IPA	180308G4_45	Analyte	40		13622.84	0.00
46 ST180308G4-11 PFC CS4 537 18B2307	180308G4_46	Analyte	40 5.04	12728.57	13622.84	93.44
47 IPA	180308G4_47	Analyte	40		13622.84	0.00

LC Calibration Standards Review Checklist

Q1

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
ST180308G4-10	L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J -11	L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Full Mass Cal. Date: 4.15.17

- Run Log Present:
- # of Samples per Sequence Checked:
- Instrument Blank Saved: NA for DW
- IIS Area Saved:
- Reviewed By: KBF 3/10/18
Initials/Date

Comments:

L14
DW

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-25.qld

Last Altered: Friday, March 09, 2018 12:33:55 Pacific Standard Time

Printed: Friday, March 09, 2018 12:34:46 Pacific Standard Time

✓ VAF 3/10/18
JUST 3/9/18

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:32:26

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Name: 180308G4_25, Date: 08-Mar-2018, Time: 22:48:25, ID: ST180308G4-10 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	9.88e3	1.64e4	1.0000		2.99	2.97	17.3	24.2	109.5
2	2 PFHxA	313.2 > 268.9	1.25e4	8.34e3	1.0000		3.33	3.33	15.0	24.6	98.5
3	3 PFHpA	363 > 318.9	2.07e4	8.34e3	1.0000		3.84	3.85	24.8	25.0	100.0
4	4 PFHxS	398.9 > 79.6	1.01e4	1.64e4	1.0000		3.97	3.98	17.6	23.5	103.1
5	5 PFOA	413 > 368.7	1.86e4	8.34e3	1.0000		4.27	4.27	22.2	24.9	99.6
6	6 PFNA	463 > 418.8	2.52e4	8.34e3	1.0000		4.61	4.62	30.2	25.2	101.0
7	7 PFOS	499 > 79.9	1.25e4	1.64e4	1.0000		4.68	4.68	21.9	22.7	98.3
8	8 PFDA	513 > 468.8	2.25e4	8.34e3	1.0000		4.84	4.92	27.0	21.1	84.2
9	9 N-MeFOSAA	570.1 > 419.0	1.14e4	1.36e4	1.0000		4.98	5.05	33.4	26.1	104.3
10	10 N-EtFOSAA	584.2 > 419.0	9.09e3	1.36e4	1.0000		5.16	5.17	26.7	27.3	109.4
11	11 PFUnA	563 > 518.9	2.22e4	8.34e3	1.0000		5.10	5.18	26.7	23.1	92.5
12	12 PFDoA	612.9 > 318.8	3.30e3	8.34e3	1.0000		5.26	5.40	3.95	23.6	94.2
13	13 PFTrDA	662.9 > 618.9	2.98e4	8.34e3	1.0000		5.53	5.59	35.7	22.9	91.6
14	14 PFTeDA	712.9 > 668.8	2.84e4	8.34e3	1.0000		5.70	5.76	34.1	24.1	96.3
15	15 13C2-PFHxA	315 > 269.8	6.92e3	8.34e3	1.0000	0.810	3.43	3.33	8.29	10.2	102.4
16	16 13C2-PFDA	515.1 > 469.9	8.77e3	8.34e3	1.0000	1.057	4.87	4.92	10.5	9.94	99.4
17	17 d5-N-EtFOSAA	589.3 > 419.0	1.36e4	1.36e4	1.0000	0.971	5.04	5.17	40.0	41.1	102.9
18	18 13C2-PFOA	414.9 > 369.7	8.34e3	8.34e3	1.0000	1.000	4.41	4.27	10.0	10.0	100.0
19	19 13C4-PFOS	503.0 > 79.9	1.64e4	1.64e4	1.0000	1.000	4.81	4.68	28.7	28.7	100.0
20	20 d3-N-MeFOSAA	573.3 > 419.0	1.36e4	1.36e4	1.0000	1.000	5.16	5.04	40.0	40.0	100.0

50-150
↓
70-130
↓

Dataset: Untitled

Last Altered: Friday, March 09, 2018 13:33:54 Pacific Standard Time
Printed: Friday, March 09, 2018 13:34:53 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:32:26
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	180308G4_1	IPA	08-Mar-18	17:51:14
2	180308G4_2	ST180308G4-1 PFC CS-3 537 18B2301	08-Mar-18	18:03:16
3	180308G4_3	ST180308G4-2 PFC CS-2 537 18B2302	08-Mar-18	18:15:37
4	180308G4_4	ST180308G4-3 PFC CS-1 537 18C0806	08-Mar-18	18:28:01 ✓
5	180308G4_5	ST180308G4-4 PFC CS0 537 18B2303	08-Mar-18	18:40:18
6	180308G4_6	ST180308G4-5 PFC CS1 537 18B2304	08-Mar-18	18:52:44
7	180308G4_7	ST180308G4-6 PFC CS2 537 18B2305	08-Mar-18	19:05:09
8	180308G4_8	ST180308G4-7 PFC CS3 537 18B2306	08-Mar-18	19:17:34
9	180308G4_9	ST180308G4-8 PFC CS4 537 18B2307	08-Mar-18	19:29:59
10	180308G4_10	ST180308G4-9 PFC CS5 537 18B2308	08-Mar-18	19:42:25
11	180308G4_11	IPA	08-Mar-18	19:54:45
12	180308G4_12	ICV180308G4-1 PFC ICV 537 18B2309	08-Mar-18	20:07:13
13	180308G4_13	IPA	08-Mar-18	20:19:35
14	180308G4_14	1800405-04 CH-AT-1FB181-0218 0.25861	08-Mar-18	20:32:02
15	180308G4_15	1800405-07 CH-AT-1RW183-0218 0.25302	08-Mar-18	20:44:24
16	180308G4_16	1800405-12 CH-AT-1FB185-0218 0.26028	08-Mar-18	20:56:50
17	180308G4_17	1800405-14 CH-AT-1FB186-0218 0.25507	08-Mar-18	21:09:14
18	180308G4_18	1800405-15 CH-AT-1RW187-0218 0.25751	08-Mar-18	21:21:40
19	180308G4_19	1800405-16 CH-AT-1FB187-0218 0.25502	08-Mar-18	21:34:06
20	180308G4_20	B8C0031-BLK1 LRB 0.25	08-Mar-18	21:46:30
21	180308G4_21	B8C0031-BS1 LFB 0.25	08-Mar-18	21:58:51
22	180308G4_22	B8C0031-MS1 LFSM 0.25052	08-Mar-18	22:11:07
23	180308G4_23	B8C0031-MSD1 LFSMD 0.25168	08-Mar-18	22:23:33
24	180308G4_24	IPA	08-Mar-18	22:36:00
25	180308G4_25	ST180308G4-10 PFC CS2 537 18B2305	08-Mar-18	22:48:25
26	180308G4_26	IPA	08-Mar-18	23:00:49
27	180308G4_27	1800407-01 CH-AT-1RW171-0218 0.2499	08-Mar-18	23:13:15
28	180308G4_28	1800407-02 CH-AT-1FB171-0218 0.2499	08-Mar-18	23:25:41
29	180308G4_29	1800407-03 CH-AT-1RW172-0218 0.25125	08-Mar-18	23:38:03
30	180308G4_30	1800407-04 CH-AT-1FB172-0218 0.25357	08-Mar-18	23:50:28
31	180308G4_31	1800407-05 CH-AT-1RW173-0218 0.26012	09-Mar-18	00:02:53
32	180308G4_32	1800407-06 CH-AT-1FB173-0218 0.25656	09-Mar-18	00:15:14

Dataset: Untitled

Last Altered: Friday, March 09, 2018 13:33:54 Pacific Standard Time

Printed: Friday, March 09, 2018 13:34:53 Pacific Standard Time

Compound name: PFBS

	Name	ID		Acq.Date	Acq.Time
33	180308G4_33	1800407-07 CH-AT-1RW174-0218 0.25296		09-Mar-18	00:27:39
34	180308G4_34	1800407-08 CH-AT-1FB174-0218 0.25404		09-Mar-18	00:40:04
35	180308G4_35	1800407-09 CH-AT-1RW175-0218 0.25976		09-Mar-18	00:52:30
36	180308G4_36	1800407-10 CH-AT-1FB175-0218 0.2554		09-Mar-18	01:04:54
37	180308G4_37	1800407-11 CH-AT-1RW176-0218 0.25181		09-Mar-18	01:17:20
38	180308G4_38	1800407-12 CH-AT-1FB176-0218 0.24655		09-Mar-18	01:29:45
39	180308G4_39	1800407-13 CH-AT-1RW177-0218 0.25466		09-Mar-18	01:42:10
40	180308G4_40	1800407-14 CH-AT-1FB177-0218 0.25039		09-Mar-18	01:54:31
41	180308G4_41	1800407-15 CH-AT-1RW178-0218 0.24978		09-Mar-18	02:06:47
42	180308G4_42	1800407-16 CH-AT-1FB178-0218 0.2499		09-Mar-18	02:19:05
43	180308G4_43	1800407-17 CH-AT-1RW179-0218 0.25201		09-Mar-18	02:31:31
44	180308G4_44	1800407-18 CH-AT-1FB179-0218 0.24788		09-Mar-18	02:43:55
45	180308G4_45	IPA		09-Mar-18	02:56:21
46	180308G4_46	ST180308G4-11 PFC CS4 537 18B2307		09-Mar-18	03:08:47 ✓
47	180308G4_47	IPA		09-Mar-18	03:21:11 ✓

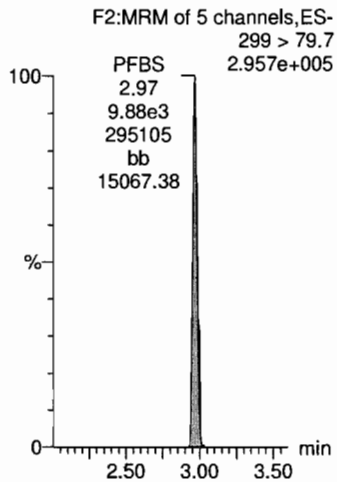
Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-25.qld

Last Altered: Friday, March 09, 2018 12:33:55 Pacific Standard Time
Printed: Friday, March 09, 2018 12:34:46 Pacific Standard Time

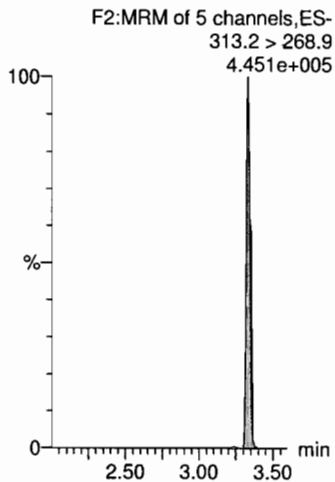
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:32:26
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Name: 180308G4_25, Date: 08-Mar-2018, Time: 22:48:25, ID: ST180308G4-10 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

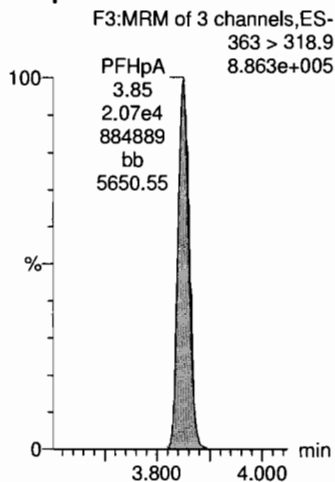
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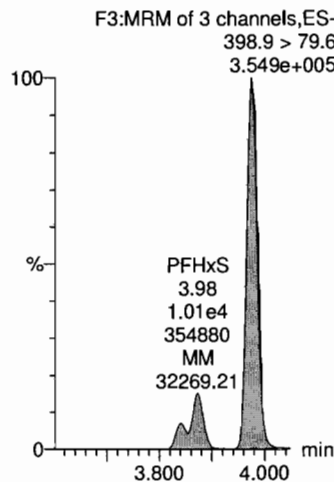
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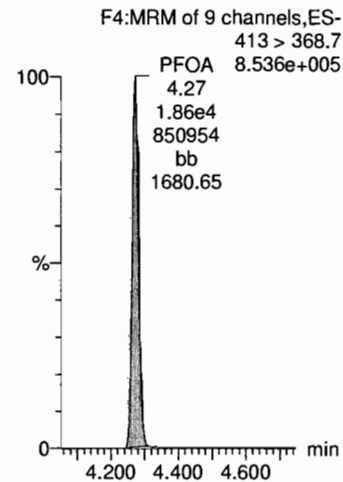
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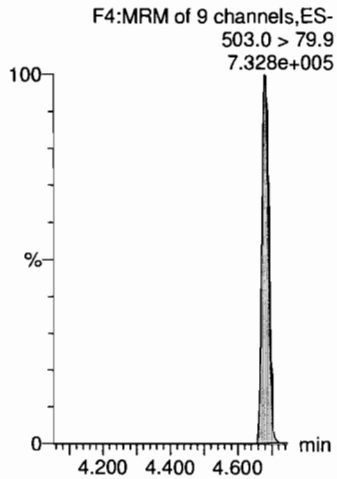
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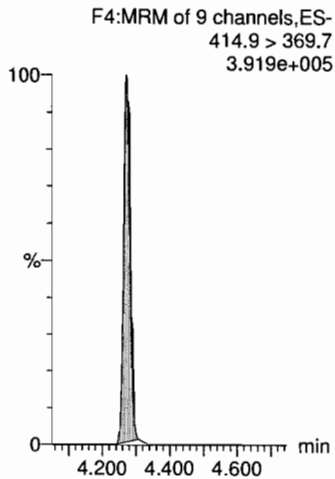
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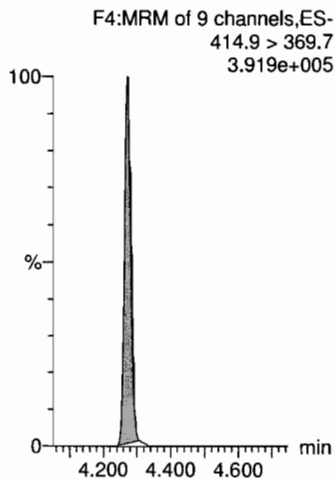
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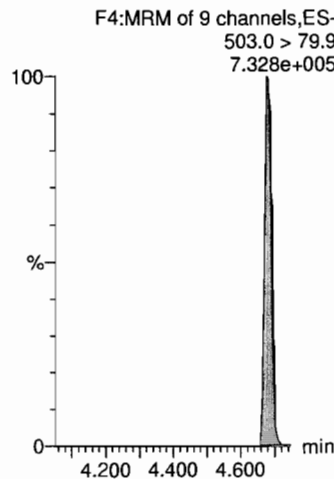
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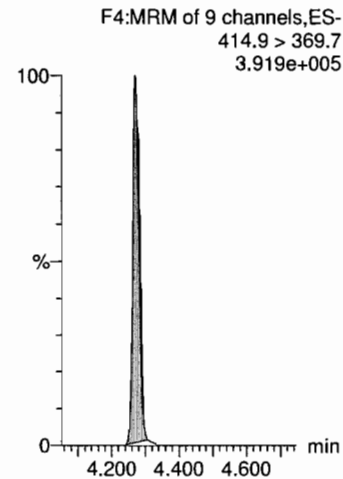
13C2-PFOA



13C4-PFOS



13C2-PFOA

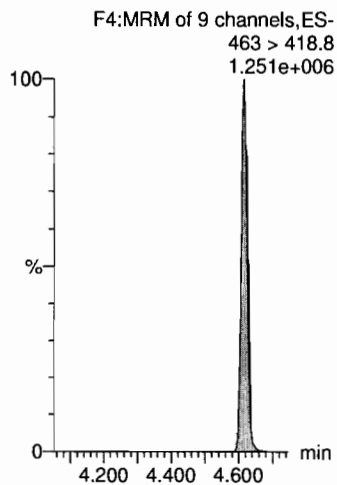


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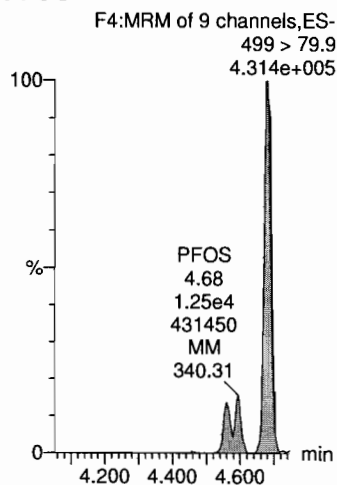
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Printed: Friday, March 09, 2018 12:34:46 Pacific Standard Time

Name: 180308G4_25, Date: 08-Mar-2018, Time: 22:48:25, ID: ST180308G4-10 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

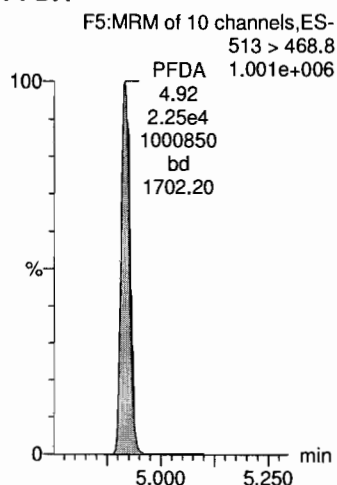
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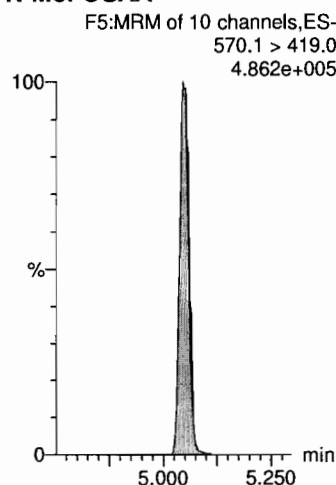
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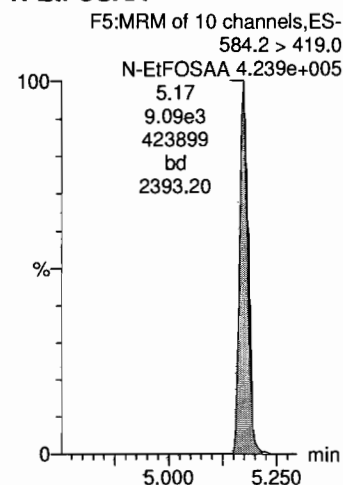
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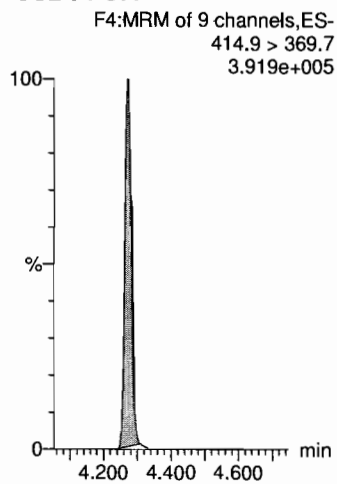
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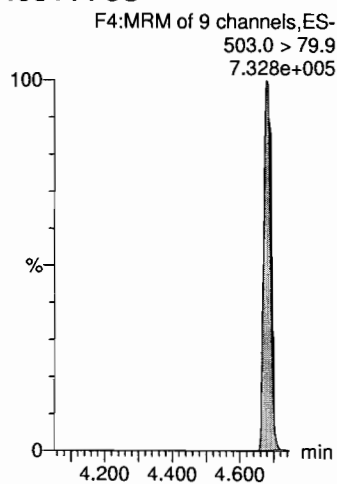
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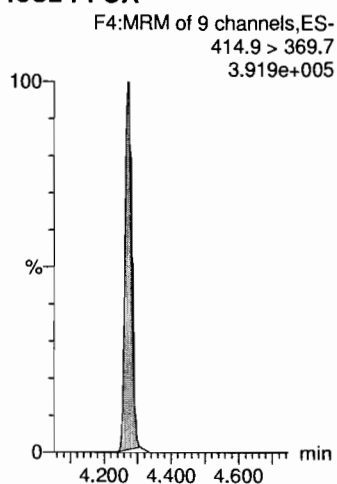
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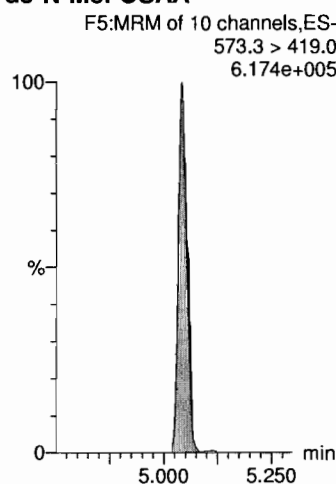
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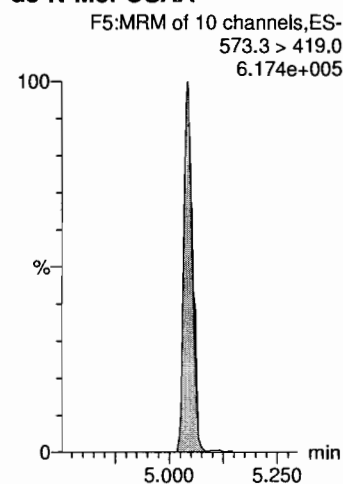
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d3-N-MeFOSAA



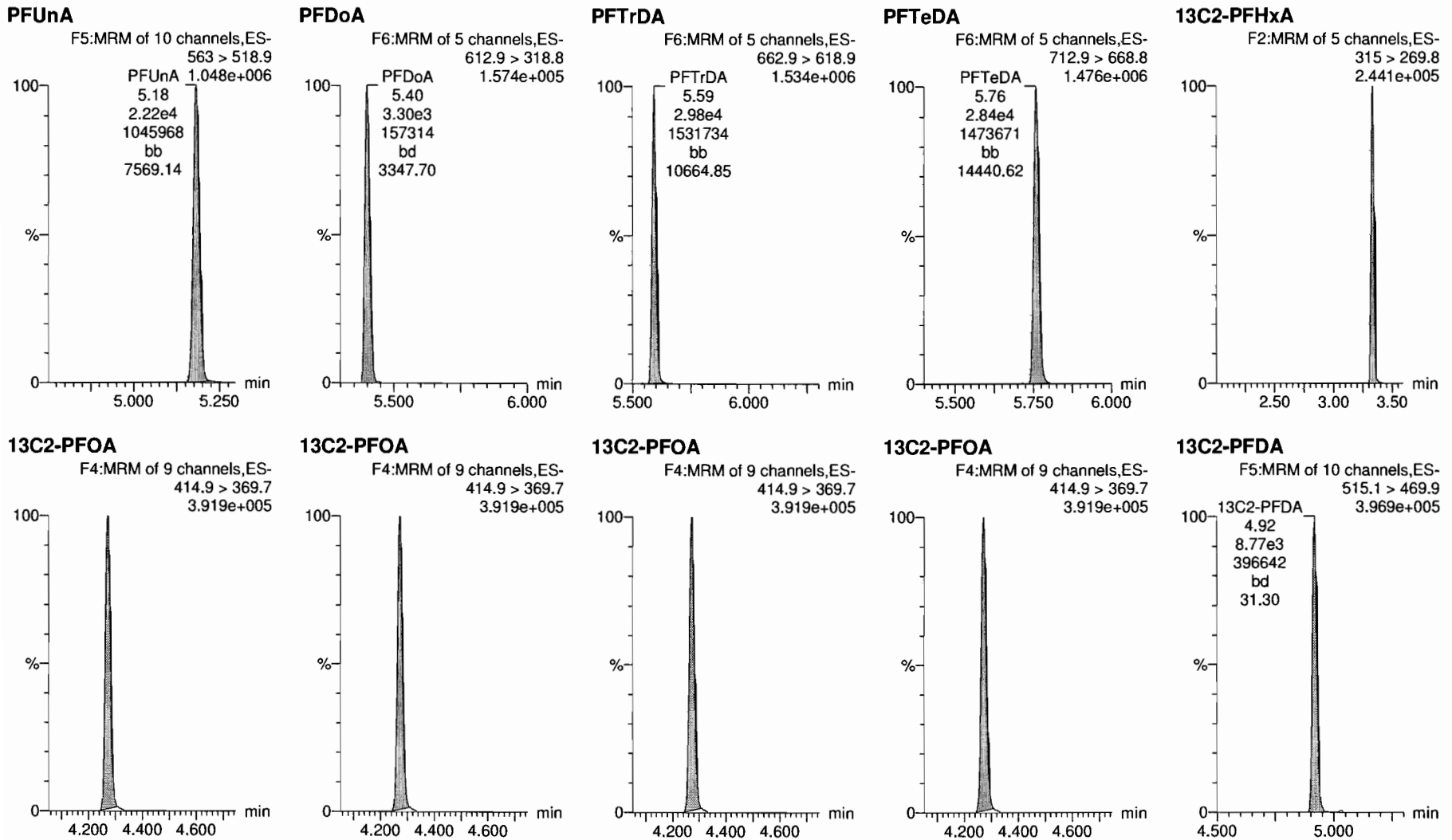
d3-N-MeFOSAA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-25.qld

Last Altered: Friday, March 09, 2018 12:33:55 Pacific Standard Time
Printed: Friday, March 09, 2018 12:34:46 Pacific Standard Time

Name: 180308G4_25, Date: 08-Mar-2018, Time: 22:48:25, ID: ST180308G4-10 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305



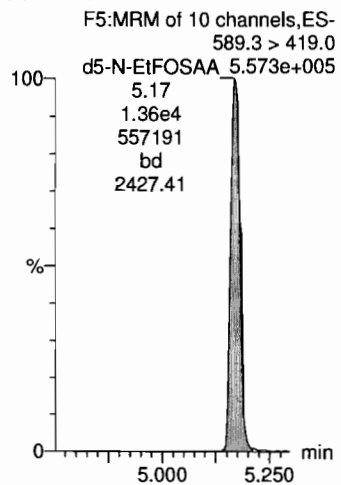
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Last Altered: Friday, March 09, 2018 12:33:55 Pacific Standard Time

Printed: Friday, March 09, 2018 12:34:46 Pacific Standard Time

Name: 180308G4_25, Date: 08-Mar-2018, Time: 22:48:25, ID: ST180308G4-10 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

d5-N-EtFOSAA



INITIAL CALIBRATION (ICAL)
INCLUDING ASSOCIATED
INITIAL CALIBRATION VERIFICATION (ICV) AND INSTRUMENT BLANK (IB)

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time
 Printed: Friday, February 23, 2018 17:22:19 Pacific Standard Time

VJA
 02/24/2018

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 15:59:15
 Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:19:14

Compound name: PFBS

Coefficient of Determination: R² = 0.996349

Calibration curve: 0.731202 * x

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

MJT
 2/23/18

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180223G2_2	Standard	0.443	3.01	198.814	16868.711	0.338	0.5	4.5	NO	0.996	NO	bb
2	2 180223G2_3	Standard	0.885	3.01	521.997	18929.600	0.791	1.1	22.3	NO	0.996	NO	bb
3	3 180223G2_4	Standard	1.770	3.02	909.253	19568.625	1.334	1.8	3.0	NO	0.996	NO	bb
4	4 180223G2_5	Standard	4.420	3.01	2203.222	17986.094	3.516	4.8	8.8	NO	0.996	NO	bb
5	5 180223G2_6	Standard	8.850	3.02	3827.673	17892.594	6.140	8.4	-5.1	NO	0.996	NO	bb
6	6 180223G2_7	Standard	22.100	3.01	9307.743	17798.180	15.009	20.5	-7.1	NO	0.996	NO	bb
7	7 180223G2_8	Standard	44.200	3.02	19324.398	16645.363	33.319	45.6	3.1	NO	0.996	NO	bb
8	8 180223G2_9	Standard	66.300	3.02	28018.547	15491.563	51.908	71.0	7.1	NO	0.996	NO	MMX
9	9 180223G2_10	Standard	88.400	3.02	37264.695	15634.240	68.407	93.6	5.8	NO	0.996	NO	MMX

Compound name: PFHxA

Coefficient of Determination: R² = 0.997717

Calibration curve: 0.553475 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	3.38	354.132	9097.107	0.389	0.7	40.7	NO	0.998	NO	MM
2	2 180223G2_3	Standard	1.000	3.38	711.273	9939.635	0.716	1.3	29.3	NO	0.998	NO	MM
3	3 180223G2_4	Standard	2.000	3.38	1173.079	9566.432	1.226	2.2	10.8	NO	0.998	NO	bb
4	4 180223G2_5	Standard	5.000	3.38	2646.081	8946.824	2.958	5.3	6.9	NO	0.998	NO	bb
5	5 180223G2_6	Standard	10.000	3.38	4344.971	8816.899	4.928	8.9	-11.0	NO	0.998	NO	bb
6	6 180223G2_7	Standard	25.000	3.38	11894.084	8696.680	13.677	24.7	-1.2	NO	0.998	NO	bb
7	7 180223G2_8	Standard	50.000	3.38	23477.408	8483.395	27.675	50.0	0.0	NO	0.998	NO	bb
8	8 180223G2_9	Standard	75.000	3.38	34391.449	8248.775	41.693	75.3	0.4	NO	0.998	NO	MM
9	9 180223G2_10	Standard	100.000	3.38	44779.535	7559.229	59.238	107.0	7.0	NO	0.998	NO	bbX

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Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.998875$

Calibration curve: $0.940423 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	3.89	483.433	9097.107	0.531	0.6	13.0	NO	0.999	NO	bb
2	2 180223G2_3	Standard	1.000	3.89	1185.001	9939.635	1.192	1.3	26.8	NO	0.999	NO	bb
3	3 180223G2_4	Standard	2.000	3.89	1948.822	9566.432	2.037	2.2	8.3	NO	0.999	NO	bb
4	4 180223G2_5	Standard	5.000	3.89	4527.533	8946.824	5.060	5.4	7.6	NO	0.999	NO	bb
5	5 180223G2_6	Standard	10.000	3.89	7941.743	8816.899	9.007	9.6	-4.2	NO	0.999	NO	MM
6	6 180223G2_7	Standard	25.000	3.89	19776.438	8696.680	22.740	24.2	-3.3	NO	0.999	NO	bb
7	7 180223G2_8	Standard	50.000	3.89	39949.883	8483.395	47.092	50.1	0.2	NO	0.999	NO	MM
8	8 180223G2_9	Standard	75.000	3.89	58401.840	8248.775	70.801	75.3	0.4	NO	0.999	NO	bb
9	9 180223G2_10	Standard	100.000	3.89	74943.813	7559.229	99.142	105.4	5.4	NO	0.999	NO	bbX

Compound name: PFHxS

Coefficient of Determination: $R^2 = 0.997652$

Calibration curve: $0.699727 * x$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.455	4.01	218.022	16868.711	0.371	0.5	16.5	NO	0.998	NO	MM
2	2 180223G2_3	Standard	0.910	4.01	506.356	18929.600	0.768	1.1	20.6	NO	0.998	NO	MM
3	3 180223G2_4	Standard	1.820	4.01	943.059	19568.625	1.383	2.0	8.6	NO	0.998	NO	MM
4	4 180223G2_5	Standard	4.560	4.01	2125.416	17986.094	3.391	4.8	6.3	NO	0.998	NO	MM
5	5 180223G2_6	Standard	9.120	4.01	3769.145	17892.594	6.046	8.6	-5.3	NO	0.998	NO	MM
6	6 180223G2_7	Standard	22.800	4.01	9441.263	17798.180	15.224	21.8	-4.6	NO	0.998	NO	MM
7	7 180223G2_8	Standard	45.600	4.01	18837.053	16645.363	32.479	46.4	1.8	NO	0.998	NO	MM
8	8 180223G2_9	Standard	68.400	4.01	26492.680	15491.563	49.081	70.1	2.5	NO	0.998	NO	MMX
9	9 180223G2_10	Standard	91.200	4.01	36343.625	15634.240	66.717	95.3	4.5	NO	0.998	NO	MMX

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Compound name: PFOA

Coefficient of Determination: R² = 0.998447

Calibration curve: 0.83774 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	4.31	444.616	9097.107	0.489	0.6	16.7	NO	0.998	NO	MMX
2	2 180223G2_3	Standard	1.000	4.31	1106.276	9939.635	1.113	1.3	32.9	NO	0.998	NO	bb
3	3 180223G2_4	Standard	2.000	4.31	1805.433	9566.432	1.887	2.3	12.6	NO	0.998	NO	MM
4	4 180223G2_5	Standard	5.000	4.31	4055.906	8946.824	4.533	5.4	8.2	NO	0.998	NO	bb
5	5 180223G2_6	Standard	10.000	4.31	6970.526	8816.899	7.906	9.4	-5.6	NO	0.998	NO	bb
6	6 180223G2_7	Standard	25.000	4.31	17861.994	8696.680	20.539	24.5	-1.9	NO	0.998	NO	bb
7	7 180223G2_8	Standard	50.000	4.31	35483.926	8483.395	41.828	49.9	-0.1	NO	0.998	NO	MM
8	8 180223G2_9	Standard	75.000	4.31	51913.281	8248.775	62.935	75.1	0.2	NO	0.998	NO	bb
9	9 180223G2_10	Standard	100.000	4.31	68504.563	7559.229	90.624	108.2	8.2	NO	0.998	NO	bbX

Compound name: PFNA

Coefficient of Determination: R² = 0.999615

Calibration curve: 1.01645 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	4.65	563.949	9097.107	0.620	0.6	22.0	NO	1.000	NO	bb
2	2 180223G2_3	Standard	1.000	4.65	1157.372	9939.635	1.164	1.1	14.6	NO	1.000	NO	MM
3	3 180223G2_4	Standard	2.000	4.65	1920.400	9566.432	2.007	2.0	-1.3	NO	1.000	NO	bb
4	4 180223G2_5	Standard	5.000	4.65	4575.846	8946.824	5.114	5.0	0.6	NO	1.000	NO	bb
5	5 180223G2_6	Standard	10.000	4.65	8764.228	8816.899	9.940	9.8	-2.2	NO	1.000	NO	bd
6	6 180223G2_7	Standard	25.000	4.65	22423.768	8696.680	25.784	25.4	1.5	NO	1.000	NO	bb
7	7 180223G2_8	Standard	50.000	4.65	42865.504	8483.395	50.529	49.7	-0.6	NO	1.000	NO	bb
8	8 180223G2_9	Standard	75.000	4.65	62783.340	8248.775	76.112	74.9	-0.2	NO	1.000	NO	bd
9	9 180223G2_10	Standard	100.000	4.65	84539.195	7559.229	111.836	110.0	10.0	NO	1.000	NO	bbX

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Compound name: PFOS

Coefficient of Determination: R² = 0.999243

Calibration curve: 0.960258 * x

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.464	4.71	240.346	16868.711	0.409	0.4	-8.2	NO	0.999	NO	MM
2	2 180223G2_3	Standard	0.925	4.71	578.990	18929.600	0.878	0.9	-1.2	NO	0.999	NO	MM
3	3 180223G2_4	Standard	1.850	4.72	1246.784	19568.625	1.829	1.9	2.9	NO	0.999	NO	MM
4	4 180223G2_5	Standard	4.625	4.71	2839.078	17986.094	4.530	4.7	2.0	NO	0.999	NO	MM
5	5 180223G2_6	Standard	9.250	4.71	5482.640	17892.594	8.794	9.2	-1.0	NO	0.999	NO	MM
6	6 180223G2_7	Standard	23.100	4.71	13237.046	17798.180	21.345	22.2	-3.8	NO	0.999	NO	MM
7	7 180223G2_8	Standard	46.200	4.71	26212.029	16645.363	45.195	47.1	1.9	NO	0.999	NO	MM
8	8 180223G2_9	Standard	69.300	4.71	38823.871	15491.563	71.926	74.9	8.1	NO	0.999	NO	MMX
9	9 180223G2_10	Standard	92.400	4.72	54783.223	15634.240	100.566	104.7	13.3	NO	0.999	NO	MMX

Compound name: PFDA

Coefficient of Determination: R² = 0.997317

Calibration curve: 1.0203 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	4.95	595.268	9097.107	0.654	0.6	28.3	NO	0.997	NO	bb
2	2 180223G2_3	Standard	1.000	4.95	1092.503	9939.635	1.099	1.1	7.7	NO	0.997	NO	MM
3	3 180223G2_4	Standard	2.000	4.95	2348.901	9566.432	2.455	2.4	20.3	NO	0.997	NO	bb
4	4 180223G2_5	Standard	5.000	4.95	5082.690	8946.824	5.681	5.6	11.4	NO	0.997	NO	bb
5	5 180223G2_6	Standard	10.000	4.95	9182.706	8816.899	10.415	10.2	2.1	NO	0.997	NO	bb
6	6 180223G2_7	Standard	25.000	4.95	23729.313	8696.680	27.285	26.7	7.0	NO	0.997	NO	bb
7	7 180223G2_8	Standard	50.000	4.95	42435.055	8483.395	50.021	49.0	-1.9	NO	0.997	NO	bb
8	8 180223G2_9	Standard	75.000	4.95	61296.219	8248.775	74.309	72.8	-2.9	NO	0.997	NO	bb
9	9 180223G2_10	Standard	100.000	4.95	86878.820	7559.229	114.931	112.6	12.6	NO	0.997	NO	bbX

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.996817$

Calibration curve: $1.4828 * x$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	5.07	216.499	12707.717	0.681	0.5	-8.1	NO	0.997	NO	MM
2	2 180223G2_3	Standard	1.000	5.07	405.579	13652.991	1.188	0.8	-19.9	NO	0.997	NO	bb
3	3 180223G2_4	Standard	2.000	5.07	807.999	11741.213	2.753	1.9	-7.2	NO	0.997	NO	bb
4	4 180223G2_5	Standard	5.000	5.07	2570.225	14071.951	7.306	4.9	-1.5	NO	0.997	NO	bd
5	5 180223G2_6	Standard	10.000	5.07	4020.162	12882.572	12.482	8.4	-15.8	NO	0.997	NO	bb
6	6 180223G2_7	Standard	25.000	5.07	11394.728	13583.305	33.555	22.6	-9.5	NO	0.997	NO	bd
7	7 180223G2_8	Standard	50.000	5.07	22109.602	12346.496	71.630	48.3	-3.4	NO	0.997	NO	MM
8	8 180223G2_9	Standard	75.000	5.07	34154.773	11885.659	114.944	77.5	3.4	NO	0.997	NO	bb
9	9 180223G2_10	Standard	100.000	5.07	48529.656	12638.679	153.591	103.6	3.6	NO	0.997	NO	MM

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.993395$

Calibration curve: $1.05983 * x$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	5.20	154.728	12707.717	0.487	0.5	-8.1	NO	0.993	NO	bb
2	2 180223G2_3	Standard	1.000	5.20	373.410	13652.991	1.094	1.0	3.2	NO	0.993	NO	MM
3	3 180223G2_4	Standard	2.000	5.20	628.798	11741.213	2.142	2.0	1.1	NO	0.993	NO	bb
4	4 180223G2_5	Standard	5.000	5.20	1653.245	14071.951	4.699	4.4	-11.3	NO	0.993	NO	bb
5	5 180223G2_6	Standard	10.000	5.20	3759.236	12882.572	11.672	11.0	10.1	NO	0.993	NO	bb
6	6 180223G2_7	Standard	25.000	5.20	9480.810	13583.305	27.919	26.3	5.4	NO	0.993	NO	bd
7	7 180223G2_8	Standard	50.000	5.20	17892.572	12346.496	57.968	54.7	9.4	NO	0.993	NO	bd
8	8 180223G2_9	Standard	75.000	5.20	24490.510	11885.659	82.420	77.8	3.7	NO	0.993	NO	bb
9	9 180223G2_10	Standard	100.000	5.20	30383.941	12638.679	96.162	90.7	-9.3	NO	0.993	NO	bb

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Compound name: PFUnA

Coefficient of Determination: R² = 0.999540

Calibration curve: 1.00493 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	5.21	522.451	9097.107	0.574	0.6	14.3	NO	1.000	NO	bb
2	2 180223G2_3	Standard	1.000	5.20	1059.691	9939.635	1.066	1.1	6.1	NO	1.000	NO	bb
3	3 180223G2_4	Standard	2.000	5.21	1984.447	9566.432	2.074	2.1	3.2	NO	1.000	NO	bb
4	4 180223G2_5	Standard	5.000	5.21	4406.931	8946.824	4.926	4.9	-2.0	NO	1.000	NO	bb
5	5 180223G2_6	Standard	10.000	5.21	9202.060	8816.899	10.437	10.4	3.9	NO	1.000	NO	MM
6	6 180223G2_7	Standard	25.000	5.21	22094.332	8696.680	25.405	25.3	1.1	NO	1.000	NO	bb
7	7 180223G2_8	Standard	50.000	5.21	41571.934	8483.395	49.004	48.8	-2.5	NO	1.000	NO	bb
8	8 180223G2_9	Standard	75.000	5.21	62562.047	8248.775	75.844	75.5	0.6	NO	1.000	NO	bb
9	9 180223G2_10	Standard	100.000	5.21	78905.391	7559.229	104.383	103.9	3.9	NO	1.000	NO	bbX

Compound name: PFDoA

Coefficient of Determination: R² = 0.995506

Calibration curve: 0.158397 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	5.43	59.313	9097.107	0.065	0.4	-17.7	NO	0.996	NO	bb
2	2 180223G2_3	Standard	1.000	5.43	144.899	9939.635	0.146	0.9	-8.0	NO	0.996	NO	bb
3	3 180223G2_4	Standard	2.000	5.43	316.583	9566.432	0.331	2.1	4.5	NO	0.996	NO	bb
4	4 180223G2_5	Standard	5.000	5.42	872.572	8946.824	0.975	6.2	23.1	NO	0.996	NO	bb
5	5 180223G2_6	Standard	10.000	5.43	1223.185	8816.899	1.387	8.8	-12.4	NO	0.996	NO	bb
6	6 180223G2_7	Standard	25.000	5.43	3603.039	8696.680	4.143	26.2	4.6	NO	0.996	NO	bb
7	7 180223G2_8	Standard	50.000	5.43	6975.865	8483.395	8.223	51.9	3.8	NO	0.996	NO	bb
8	8 180223G2_9	Standard	75.000	5.42	9419.647	8248.775	11.419	72.1	-3.9	NO	0.996	NO	bb
9	9 180223G2_10	Standard	100.000	5.43	10426.521	7559.229	13.793	87.1	-12.9	NO	0.996	NO	bbX

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Compound name: PFTrDA

Coefficient of Determination: R² = 0.997291

Calibration curve: 1.3743 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	5.61	726.707	9097.107	0.799	0.6	16.3	NO	0.997	NO	bd
2	2 180223G2_3	Standard	1.000	5.61	1605.347	9939.635	1.615	1.2	17.5	NO	0.997	NO	bb
3	3 180223G2_4	Standard	2.000	5.61	3192.247	9566.432	3.337	2.4	21.4	NO	0.997	NO	bb
4	4 180223G2_5	Standard	5.000	5.61	6533.214	8946.824	7.302	5.3	6.3	NO	0.997	NO	bb
5	5 180223G2_6	Standard	10.000	5.61	12468.454	8816.899	14.142	10.3	2.9	NO	0.997	NO	bb
6	6 180223G2_7	Standard	25.000	5.61	32196.830	8696.680	37.022	26.9	7.8	NO	0.997	NO	MM
7	7 180223G2_8	Standard	50.000	5.62	56222.504	8483.395	66.274	48.2	-3.6	NO	0.997	NO	bb
8	8 180223G2_9	Standard	75.000	5.61	83378.453	8248.775	101.080	73.5	-1.9	NO	0.997	NO	bb
9	9 180223G2_10	Standard	100.000	5.61	109636.859	7559.229	145.037	105.5	5.5	NO	0.997	NO	bbX

Compound name: PFTeDA

Coefficient of Determination: R² = 0.998250

Calibration curve: 1.24932 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180223G2_2	Standard	0.500	5.79	611.723	9097.107	0.672	0.5	7.6	NO	0.998	NO	MM
2	2 180223G2_3	Standard	1.000	5.79	1435.181	9939.635	1.444	1.2	15.6	NO	0.998	NO	bb
3	3 180223G2_4	Standard	2.000	5.78	2593.027	9566.432	2.711	2.2	8.5	NO	0.998	NO	MM
4	4 180223G2_5	Standard	5.000	5.78	6228.092	8946.824	6.961	5.6	11.4	NO	0.998	NO	bb
5	5 180223G2_6	Standard	10.000	5.78	11576.812	8816.899	13.130	10.5	5.1	NO	0.998	NO	bb
6	6 180223G2_7	Standard	25.000	5.79	28530.078	8696.680	32.806	26.3	5.0	NO	0.998	NO	MM
7	7 180223G2_8	Standard	50.000	5.79	52361.477	8483.395	61.722	49.4	-1.2	NO	0.998	NO	bd
8	8 180223G2_9	Standard	75.000	5.79	75116.234	8248.775	91.064	72.9	-2.8	NO	0.998	NO	MM
9	9 180223G2_10	Standard	100.000	5.79	102852.344	7559.229	136.062	108.9	8.9	NO	0.998	NO	MMX

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:22:19 Pacific Standard Time

Compound name: 13C2-PFHxA

Response Factor: 0.731379

RRF SD: 0.0238184, Relative SD: 3.25663

Response type: Internal Std (Ref 18), 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 180223G2_2	Standard	10.000	3.38	6700.987	9097.107	7.366	10.1	0.7	NO		NO	bd
2	2 180223G2_3	Standard	10.000	3.38	7319.206	9939.635	7.364	10.1	0.7	NO		NO	bb
3	3 180223G2_4	Standard	10.000	3.38	6657.065	9566.432	6.875	9.4	-6.0	NO		NO	bb
4	4 180223G2_5	Standard	10.000	3.38	6657.985	8946.824	7.442	10.2	1.7	NO		NO	bb
5	5 180223G2_6	Standard	10.000	3.38	6290.871	8816.899	7.135	9.8	-2.4	NO		NO	bb
6	6 180223G2_7	Standard	10.000	3.38	6250.375	8696.680	7.187	9.8	-1.7	NO		NO	bb
7	7 180223G2_8	Standard	10.000	3.38	6455.338	8483.395	7.609	10.4	4.0	NO		NO	bb
8	8 180223G2_9	Standard	10.000	3.38	6213.207	8248.775	7.532	10.3	3.0	NO		NO	bb
9	9 180223G2_10	Standard	10.000	3.38	6040.483	7559.229	7.991	10.9	9.3	NO		NO	bbX

Compound name: 13C2-PFDA

Response Factor: 0.909838

RRF SD: 0.0477189, Relative SD: 5.24477

Response type: Internal Std (Ref 18), 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 180223G2_2	Standard	10.000	4.95	7725.546	9097.107	8.492	9.3	-6.7	NO		NO	bb
2	2 180223G2_3	Standard	10.000	4.95	8959.234	9939.635	9.014	9.9	-0.9	NO		NO	MM
3	3 180223G2_4	Standard	10.000	4.95	8703.722	9566.432	9.098	10.0	-0.0	NO		NO	bb
4	4 180223G2_5	Standard	10.000	4.95	8332.058	8946.824	9.313	10.2	2.4	NO		NO	bb
5	5 180223G2_6	Standard	10.000	4.95	7919.763	8816.899	8.982	9.9	-1.3	NO		NO	bb
6	6 180223G2_7	Standard	10.000	4.95	8753.030	8696.680	10.065	11.1	10.6	NO		NO	bb
7	7 180223G2_8	Standard	10.000	4.95	7796.922	8483.395	9.191	10.1	1.0	NO		NO	bb
8	8 180223G2_9	Standard	10.000	4.95	7120.327	8248.775	8.632	9.5	-5.1	NO		NO	bb
9	9 180223G2_10	Standard	10.000	4.95	7540.862	7559.229	9.976	11.0	9.6	NO		NO	bbX

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

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Printed: Friday, February 23, 2018 17:22:19 Pacific Standard Time

Compound name: d5-N-EtFOSAA

Response Factor: 1.04937

RRF SD: 0.099298, Relative SD: 9.46259

Response type: Internal Std (Ref 20), 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	180223G2_2	Standard	40.000	5.19	11991.277	12707.717	37.745	36.0	-10.1	NO		NO	bb
2	180223G2_3	Standard	40.000	5.19	16726.662	13652.991	49.005	46.7	16.7	NO		NO	bb
3	180223G2_4	Standard	40.000	5.19	14092.588	11741.213	48.011	45.8	14.4	NO		NO	bb
4	180223G2_5	Standard	40.000	5.19	14119.112	14071.951	40.134	38.2	-4.4	NO		NO	bb
5	180223G2_6	Standard	40.000	5.19	13679.503	12882.572	42.474	40.5	1.2	NO		NO	bb
6	180223G2_7	Standard	40.000	5.19	14178.573	13583.305	41.753	39.8	-0.5	NO		NO	bd
7	180223G2_8	Standard	40.000	5.19	12425.209	12346.496	40.255	38.4	-4.1	NO		NO	bb
8	180223G2_9	Standard	40.000	5.19	11514.227	11885.659	38.750	36.9	-7.7	NO		NO	bb
9	180223G2_10	Standard	40.000	5.19	12527.367	12638.679	39.648	37.8	-5.5	NO		NO	bd

Compound name: 13C2-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 18), 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	180223G2_2	Standard	10.000	4.31	9097.107	9097.107	10.000	10.0	0.0	NO		NO	bb
2	180223G2_3	Standard	10.000	4.31	9939.635	9939.635	10.000	10.0	0.0	NO		NO	bb
3	180223G2_4	Standard	10.000	4.31	9566.432	9566.432	10.000	10.0	0.0	NO		NO	bb
4	180223G2_5	Standard	10.000	4.31	8946.824	8946.824	10.000	10.0	0.0	NO		NO	bb
5	180223G2_6	Standard	10.000	4.31	8816.899	8816.899	10.000	10.0	0.0	NO		NO	bb
6	180223G2_7	Standard	10.000	4.31	8696.680	8696.680	10.000	10.0	0.0	NO		NO	bd
7	180223G2_8	Standard	10.000	4.31	8483.395	8483.395	10.000	10.0	0.0	NO		NO	bd
8	180223G2_9	Standard	10.000	4.31	8248.775	8248.775	10.000	10.0	0.0	NO		NO	bb
9	180223G2_10	Standard	10.000	4.31	7559.229	7559.229	10.000	10.0	0.0	NO		NO	bbX

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 1.35974e-016, Relative SD: 1.35974e-014

Response type: Internal Std (Ref 19), 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	180223G2_2	Standard	28.700	4.71	16868.711	16868.711	28.700	28.7	0.0	NO		NO	bd
2	180223G2_3	Standard	28.700	4.71	18929.600	18929.600	28.700	28.7	0.0	NO		NO	MM
3	180223G2_4	Standard	28.700	4.71	19568.625	19568.625	28.700	28.7	0.0	NO		NO	bd
4	180223G2_5	Standard	28.700	4.71	17986.094	17986.094	28.700	28.7	0.0	NO		NO	bd
5	180223G2_6	Standard	28.700	4.71	17892.594	17892.594	28.700	28.7	0.0	NO		NO	bd
6	180223G2_7	Standard	28.700	4.71	17798.180	17798.180	28.700	28.7	0.0	NO		NO	bb
7	180223G2_8	Standard	28.700	4.71	16645.363	16645.363	28.700	28.7	0.0	NO		NO	bb
8	180223G2_9	Standard	28.700	4.71	15491.563	15491.563	28.700	28.7	0.0	NO		NO	bbX
9	180223G2_10	Standard	28.700	4.71	15634.240	15634.240	28.700	28.7	0.0	NO		NO	bbX

Compound name: d3-N-MeFOSAA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 20), 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	180223G2_2	Standard	40.000	5.07	12707.717	12707.717	40.000	40.0	0.0	NO		NO	bb
2	180223G2_3	Standard	40.000	5.07	13652.991	13652.991	40.000	40.0	0.0	NO		NO	bb
3	180223G2_4	Standard	40.000	5.07	11741.213	11741.213	40.000	40.0	0.0	NO		NO	bd
4	180223G2_5	Standard	40.000	5.07	14071.951	14071.951	40.000	40.0	0.0	NO		NO	bd
5	180223G2_6	Standard	40.000	5.07	12882.572	12882.572	40.000	40.0	0.0	NO		NO	bd
6	180223G2_7	Standard	40.000	5.07	13583.305	13583.305	40.000	40.0	0.0	NO		NO	bb
7	180223G2_8	Standard	40.000	5.07	12346.496	12346.496	40.000	40.0	0.0	NO		NO	bb
8	180223G2_9	Standard	40.000	5.07	11885.659	11885.659	40.000	40.0	0.0	NO		NO	bb
9	180223G2_10	Standard	40.000	5.07	12638.679	12638.679	40.000	40.0	0.0	NO		NO	MM

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:22:19 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 15:59:15

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:19:14

Name: 180223G2_2, Date: 23-Feb-2018, Time: 13:29:59, ID: ST180223G2-1 PFC CS-3 537 18B2301, Description: PFC CS-3 537 18B2301

#	Name	IS#	CoD	CoD Flag	%RSD
1	1 PFBS	19	0.9963	NO	
2	2 PFHxA	18	0.9977	NO	
3	3 PFHpA	18	0.9989	NO	
4	4 PFHxS	19	0.9977	NO	
5	5 PFOA	18	0.9984	NO	
6	6 PFNA	18	0.9996	NO	
7	7 PFOS	19	0.9992	NO	
8	8 PFDA	18	0.9973	NO	
9	9 N-MeFOSAA	20	0.9968	NO	
10	10 N-EtFOSAA	20	0.9934	NO	
11	11 PFUnA	18	0.9995	NO	
12	12 PFDoA	18	0.9955	NO	
13	13 PFTTrDA	18	0.9973	NO	
14	14 PFTeDA	18	0.9982	NO	
15	15 13C2-PFHxA	18		NO	3.257
16	16 13C2-PFDA	18		NO	5.245
17	17 d5-N-EtFOSAA	20		NO	9.463
18	18 13C2-PFOA	18		NO	0.000
19	19 13C4-PFOS	19		NO	0.000
20	20 d3-N-MeFOSAA	20		NO	0.000

Dataset: Untitled

Last Altered: Friday, February 23, 2018 17:34:09 Pacific Standard Time
Printed: Friday, February 23, 2018 17:36:22 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 15:59:15
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	180223G2_1	IPA	23-Feb-18	13:17:36
2	180223G2_2	ST180223G2-1 PFC CS-3 537 18B2301	23-Feb-18	13:29:59
3	180223G2_3	ST180223G2-2 PFC CS-2 537 18B2302	23-Feb-18	13:42:20
4	180223G2_4	ST180223G2-3 PFC CS-1 537 18B2310	23-Feb-18	13:54:45
5	180223G2_5	ST180222G3-4 PFC CS0 537 18B2303	23-Feb-18	14:07:10
6	180223G2_6	ST180223G2-5 PFC CS1 537 18B2304	23-Feb-18	14:19:35
7	180223G2_7	ST180223G2-6 PFC CS2 537 18B2305	23-Feb-18	14:32:01
8	180223G2_8	ST180223G2-7 PFC CS3 537 18B2306	23-Feb-18	14:44:25
9	180223G2_9	ST180223G2-8 PFC CS4 537 18B2307	23-Feb-18	14:56:52
10	180223G2_10	ST180223G2-9 PFC CS5 537 18B2308	23-Feb-18	15:09:16
11	180223G2_11	IPA	23-Feb-18	15:21:37
12	180223G2_12	ICV180223G2-1 PFC ICV 537 18B2309	23-Feb-18	15:34:05
13	180223G2_13	IPA	23-Feb-18	15:46:26

ICAL

Compound 18: 13C2-PFOA

high 9939.64 RPD
low 8248.78 18.59

ID	Name	Type	Std. CRT	Area	IS Area	Respo Primary Flags
1 ST180223G2-1 PFC CS-3 537 18B2301	180223G2_2	Analyte	10 4.31	9097.11	9097.11	10 bb
2 ST180223G2-2 PFC CS-2 537 18B2302	180223G2_3	Analyte	10 4.31	9939.64	9939.64	10 bb
3 ST180223G2-3 PFC CS-1 537 18B2310	180223G2_4	Standard	10 4.31	9566.43	9566.43	10 bb
4 ST180222G3-4 PFC CS0 537 18B2303	180223G2_5	Standard	10 4.31	8946.82	8946.82	10 bb
5 ST180223G2-5 PFC CS1 537 18B2304	180223G2_6	Standard	10 4.31	8816.90	8816.90	10 bb
6 ST180223G2-6 PFC CS2 537 18B2305	180223G2_7	Standard	10 4.31	8696.68	8696.68	10 bd
7 ST180223G2-7 PFC CS3 537 18B2306	180223G2_8	Standard	10 4.31	8483.40	8483.40	10 bd
8 ST180223G2-8 PFC CS4 537 18B2307	180223G2_9	Standard	10 4.31	8248.78	8248.78	10 bb
9 ST180223G2-9 PFC CS5 537 18B2308	180223G2_10	Standard	10 4.31	7559.23	7559.23	10 bbX
						average
						8974.47

Compound 19: 13C4-PFOS

high 19568.625 RPD
low 16645.363 16.14

ID	Name	Type	Std. CRT	Area	IS Area	Respo Primary Flags
1 ST180223G2-1 PFC CS-3 537 18B2301	180223G2_2	Analyte	28.7 4.71	16868.71	16868.71	28.7 bd
2 ST180223G2-2 PFC CS-2 537 18B2302	180223G2_3	Analyte	28.7 4.71	18923.35	18783.59	28.7 bb
3 ST180223G2-3 PFC CS-1 537 18B2310	180223G2_4	Standard	28.7 4.71	19568.63	19568.63	28.7 bd
4 ST180222G3-4 PFC CS0 537 18B2303	180223G2_5	Standard	28.7 4.71	17986.09	17986.09	28.7 bd
5 ST180223G2-5 PFC CS1 537 18B2304	180223G2_6	Standard	28.7 4.71	17892.59	17892.59	28.7 bd
6 ST180223G2-6 PFC CS2 537 18B2305	180223G2_7	Standard	28.7 4.71	17798.18	17798.18	28.7 bb
7 ST180223G2-7 PFC CS3 537 18B2306	180223G2_8	Standard	28.7 4.71	16645.36	16645.36	28.7 bb
8 ST180223G2-8 PFC CS4 537 18B2307	180223G2_9	Standard	28.7 4.71	15491.56	15491.56	28.7 bbX
9 ST180223G2-9 PFC CS5 537 18B2308	180223G2_10	Standard	28.7 4.71	15634.24	15634.24	28.7 bbX
						average
						17934.74

Compound 20: d3-N-MeFOSAA

high	14071.95	RPD
low	11741.21	18.06

ID	Name	Type	Std. CRT	Area	IS Area	Respo Primary	Flags
1	ST180223G2-1 PFC CS-3 537 18B2301	180223G2_2	Analyte	40 5.07	12707.72	12707.72	40 bb
2	ST180223G2-2 PFC CS-2 537 18B2302	180223G2_3	Analyte	40 5.07	13652.99	13652.99	40 bb
3	ST180223G2-3 PFC CS-1 537 18B2310	180223G2_4	Standard	40 5.07	11741.21	11741.21	40 bd
4	ST180222G3-4 PFC CS0 537 18B2303	180223G2_5	Standard	40 5.07	14071.95	14071.95	40 bd
5	ST180223G2-5 PFC CS1 537 18B2304	180223G2_6	Standard	40 5.07	12882.57	12882.57	40 bd
6	ST180223G2-6 PFC CS2 537 18B2305	180223G2_7	Standard	40 5.07	13583.31	13583.31	40 bb
7	ST180223G2-7 PFC CS3 537 18B2306	180223G2_8	Standard	40 5.07	12346.50	12346.50	40 bb
8	ST180223G2-8 PFC CS4 537 18B2307	180223G2_9	Standard	40 5.07	11885.66	11885.66	40 bb
9	ST180223G2-9 PFC CS5 537 18B2308	180223G2_10	Standard	40 5.07	12557.49	12557.49	40 bb
						average	
						12825.49	

Targetlynx KS - 180223G2-CRV.qld

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180223G2_7 - ST180223G2-6 PFC CS2 537 18B2305 - PFC CS2 537 18B2305

Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	SEC	RA	VIN	RRT	Acq Date	Acq Time	# Ch Noise	Q	Sample Intd	Factor	SNR	Cal File	MOD
1 PFBS	20.526417	0.00520	82.9		9.58643		3.91	1	19		0.640	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
2 PFHxA	24.710397	0.00253	56.8		1.16944		2.38	2	18		0.794	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
3 PFHpA	24.180825	0.00651	96.7		1.57864		3.89	3	18		0.903	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
4 PFHxS	21.757447	0.0126	95.4		9.44163		4.91	4	19		0.852	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
5 PFDA	24.516983	0.0149	98.1		1.78964		4.31	5	18		1.000	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
6 PFNA	25.368999	0.09697	101.5		2.24264		4.65	6	18		1.080	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
7 PFDS	22.228457	0.0158	96.2		1.32464		4.71	7	19		1.000	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
8 PFDA	26.742538	0.0400	107.0		2.37364		4.85	8	18		1.149	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO
9 N-MeFOSAA	22.629555	0.00399	99.5		1.12964		5.07	9	20		1.001	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
10 N-EFOSAA	26.342927	0.00491	105.4		9.48163		5.20	10	20		1.025	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
11 PFUnA	25.268935	0.00395	101.1		2.20964		5.21	11	18		1.209	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
12 PFDA	28.155792	0.00193	104.6		3.60263		5.43	12	18		1.260	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
13 PFTdA	28.938733	0.0194	107.8		3.22064		5.61	13	18		1.303	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
14 PFTeDA	28.258920	0.00593	105.0		2.65364		5.79	14	18		1.343	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
15 13C2-PFHxA	9.6297482	0.000896	98.3		6.25063	0.731	3.38	15	18		0.784	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO
16 13C2-PFDA	11.082178	0.00401	110.6		8.75363	0.910	4.85	16	18		1.149	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO
17 c5-H-EFOSAA	39.788409	0.0346	99.5		1.41864	1.049	5.19	17	20		1.024	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO
18 13C2-PFOA	10.000000	0.0135	100.0		8.69763	1.000	4.31	18	18		0.000	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO
19 13C4-PFOS	28.700000	0.09233	106.0		1.78064	1.000	4.71	19	19		0.000	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO
20 c5-H-MeFOSAA	40.000000	0.0130	108.9		1.35864	1.000	5.87	20	20		0.000	23-Feb-18	14:32:01		ST180223G...	PFC CS2 537 18...	1.0	1.00	C18_5...	NO

Chromatogram

180223G2_7 Smooth(In,142)
PFC CS2 537 18B2305 ST180223G2-6 PFC CS2 537 18B2305

F2.MRM of 5 channels ES-
3132 + 268.9
4.319e+005

PFHxA 3.38, 11894 06, 431272

17/16 = 1.06

3.260 3.270 3.280 3.290 3.300 3.310 3.320 3.330 3.340 3.350 3.360 3.370 3.380 3.390 3.400 3.410 3.420 3.430 3.440 3.450 3.460 3.470 3.480 3.490 3.500 3.510 3.520 3.530 min

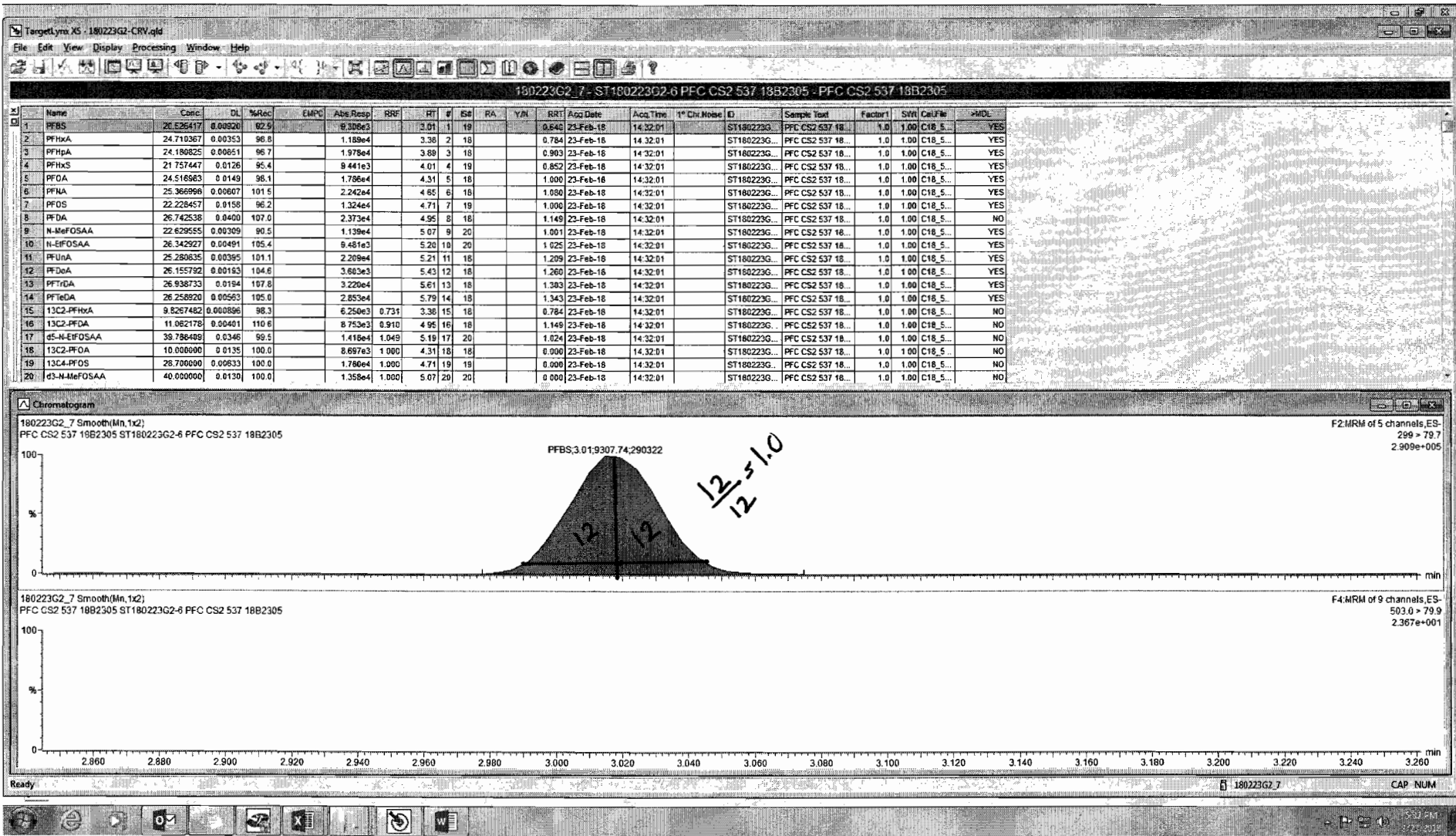
180223G2_7 Smooth(In,142)
PFC CS2 537 18B2305 ST180223G2-6 PFC CS2 537 18B2305

F4.MRM of 8 channels ES-
414.0 + 369.7
9.667e+000

3.260 3.270 3.280 3.290 3.300 3.310 3.320 3.330 3.340 3.350 3.360 3.370 3.380 3.390 3.400 3.410 3.420 3.430 3.440 3.450 3.460 3.470 3.480 3.490 3.500 3.510 3.520 3.530 min

Custom Reporting: Select reports to generate

180223G2_7 CAP_NUM



Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 15:59:15

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:19:14

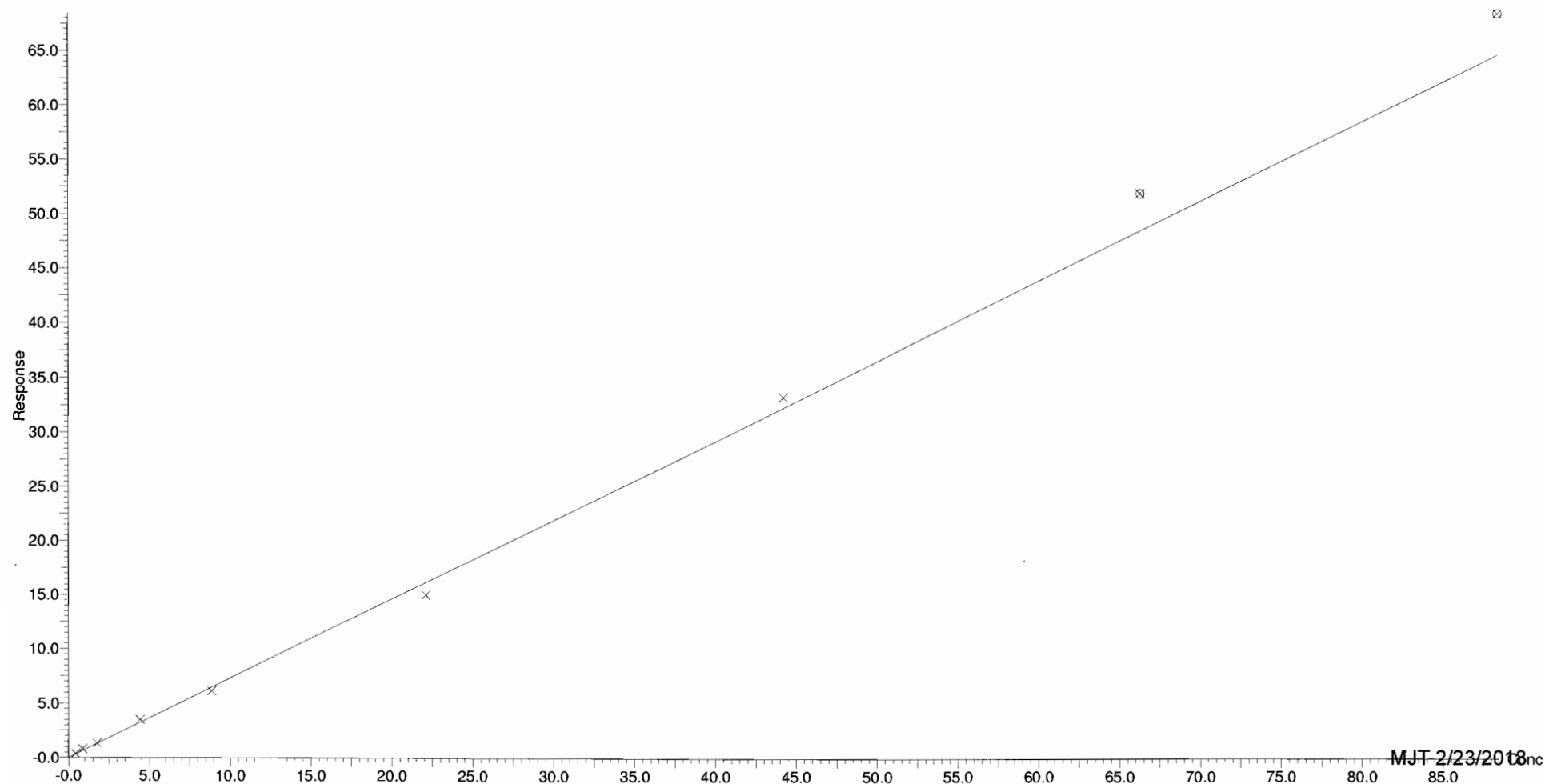
Compound name: PFBS

Coefficient of Determination: $R^2 = 0.996349$

Calibration curve: $0.731202 * x$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018 inc

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

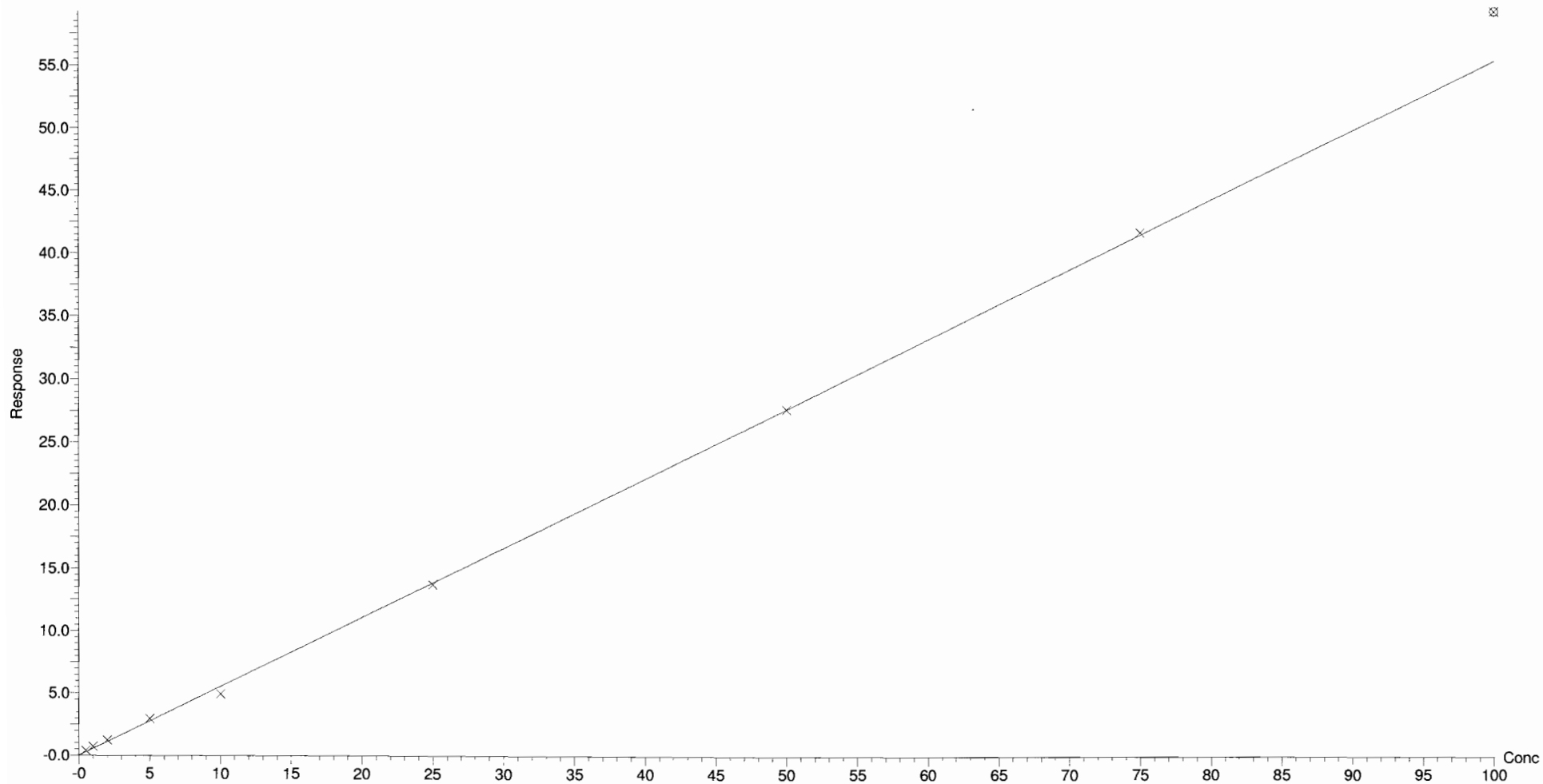
Compound name: PFHxA

Coefficient of Determination: $R^2 = 0.997717$

Calibration curve: $0.553475 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

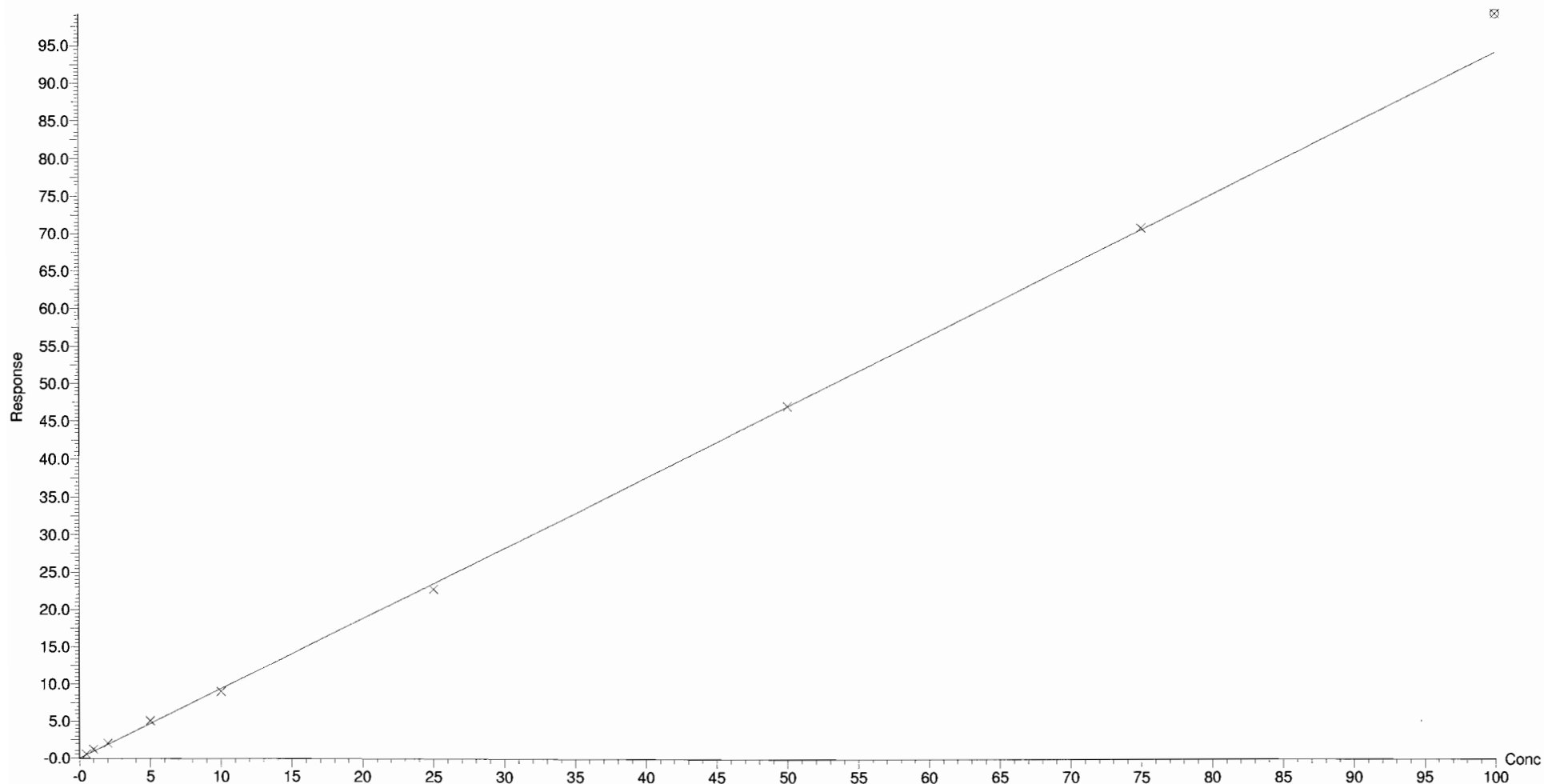
Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.998875$

Calibration curve: $0.940423 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

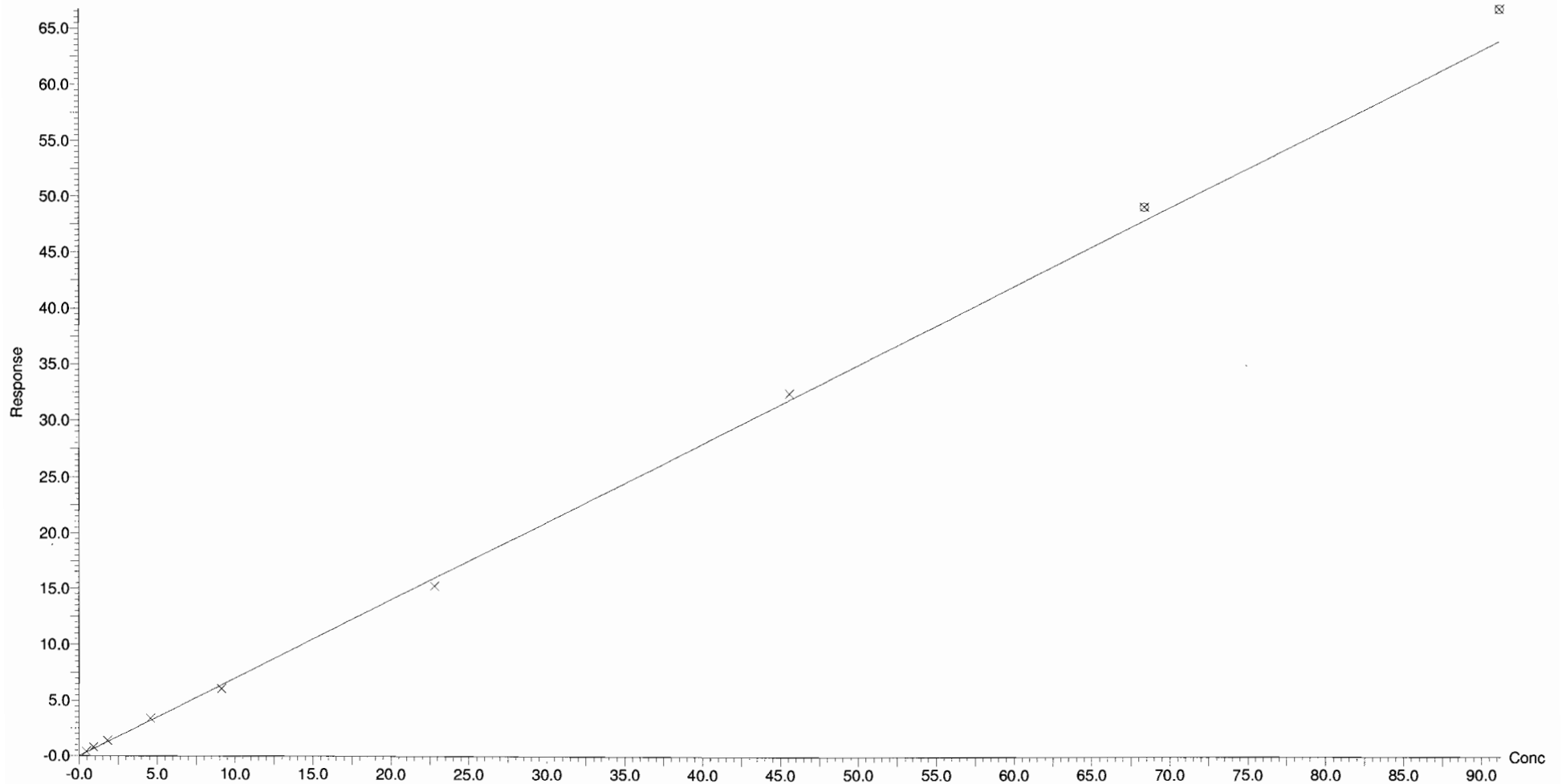
Compound name: PFHxS

Coefficient of Determination: $R^2 = 0.997652$

Calibration curve: $0.699727 * x$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

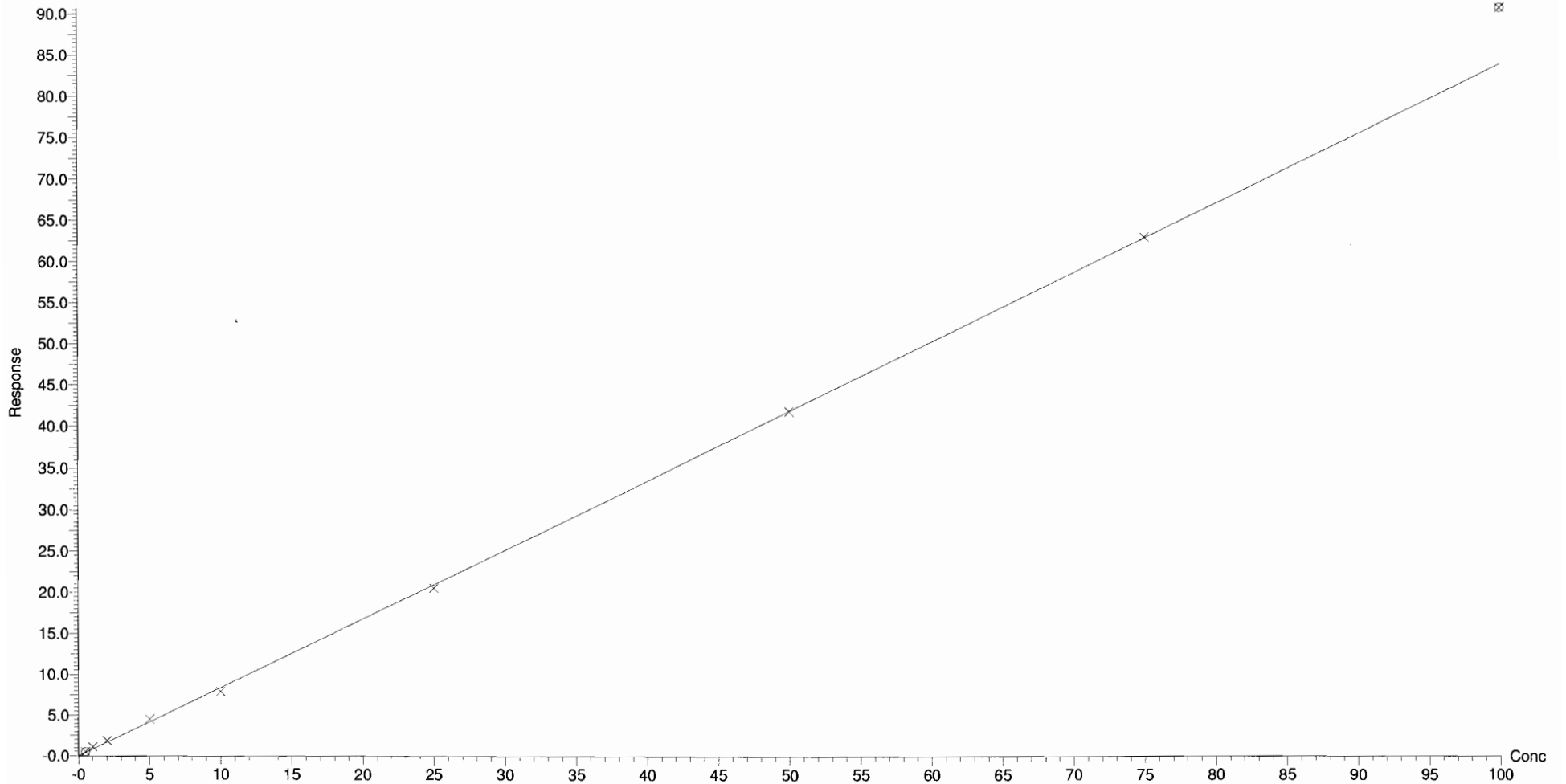
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld
Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time
Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

Compound name: PFOA
Coefficient of Determination: $R^2 = 0.998447$
Calibration curve: $0.83774 * x$
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

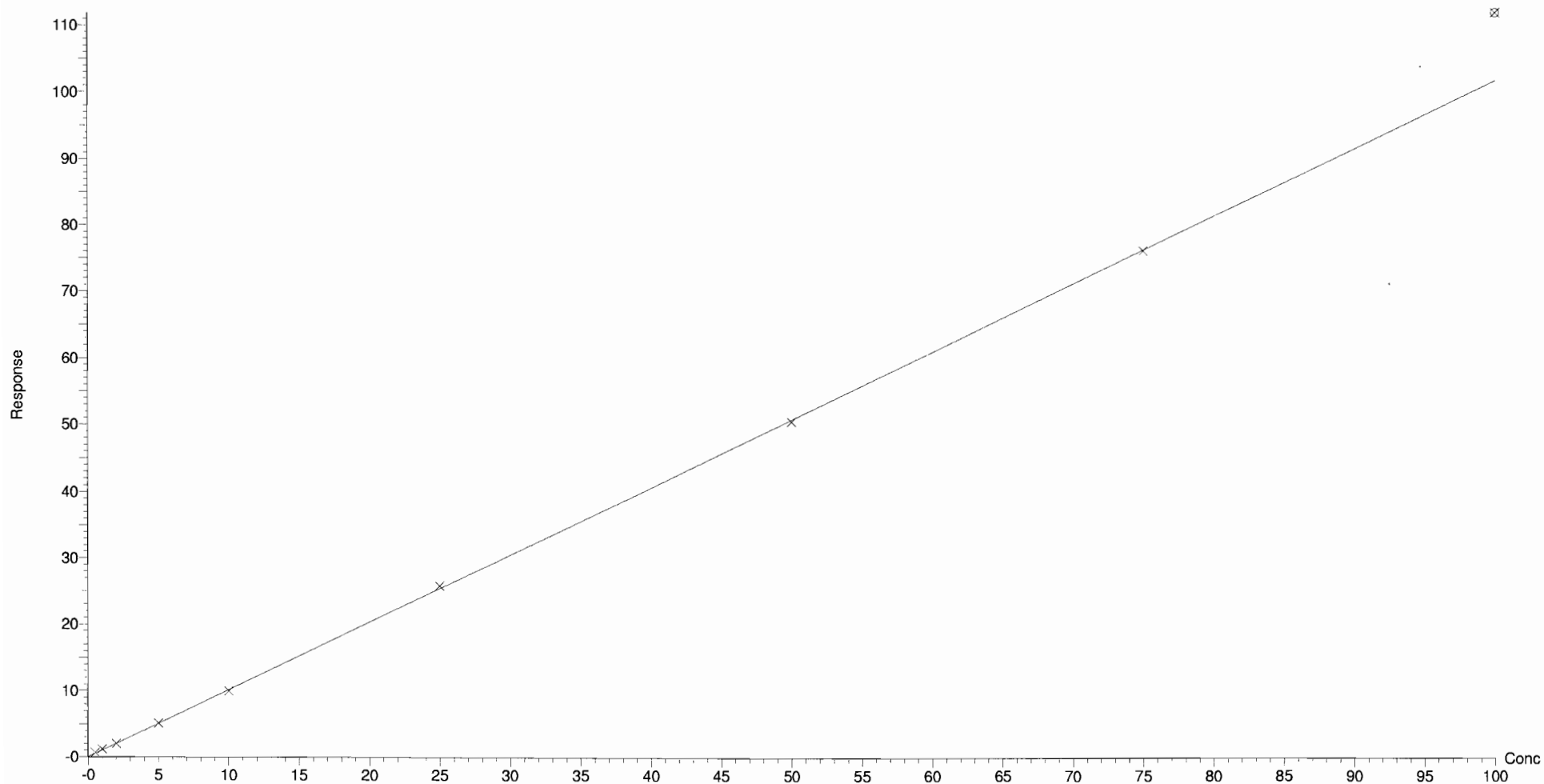
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.999615$

Calibration curve: $1.01645 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

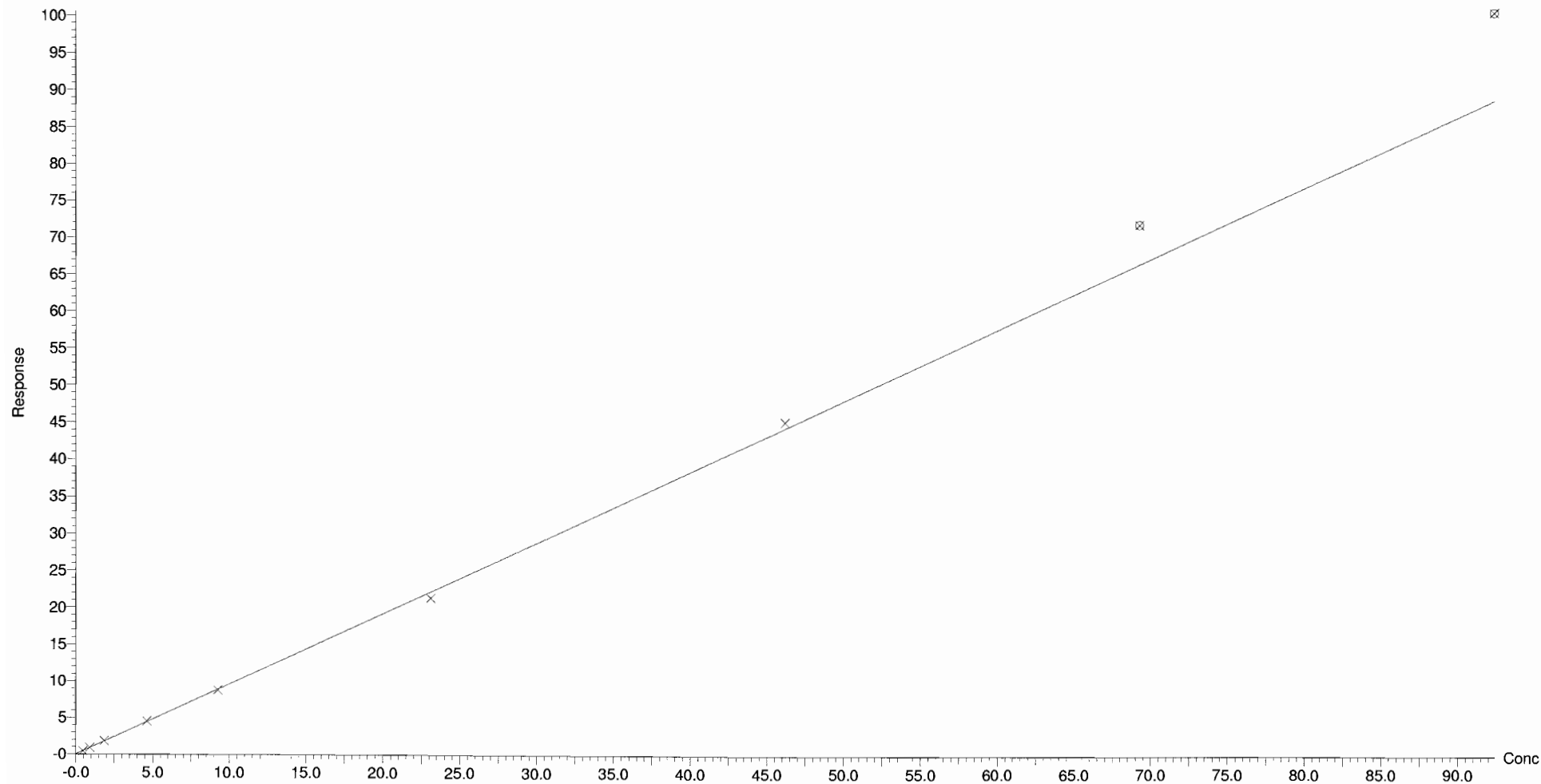
Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999243$

Calibration curve: $0.960258 * x$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

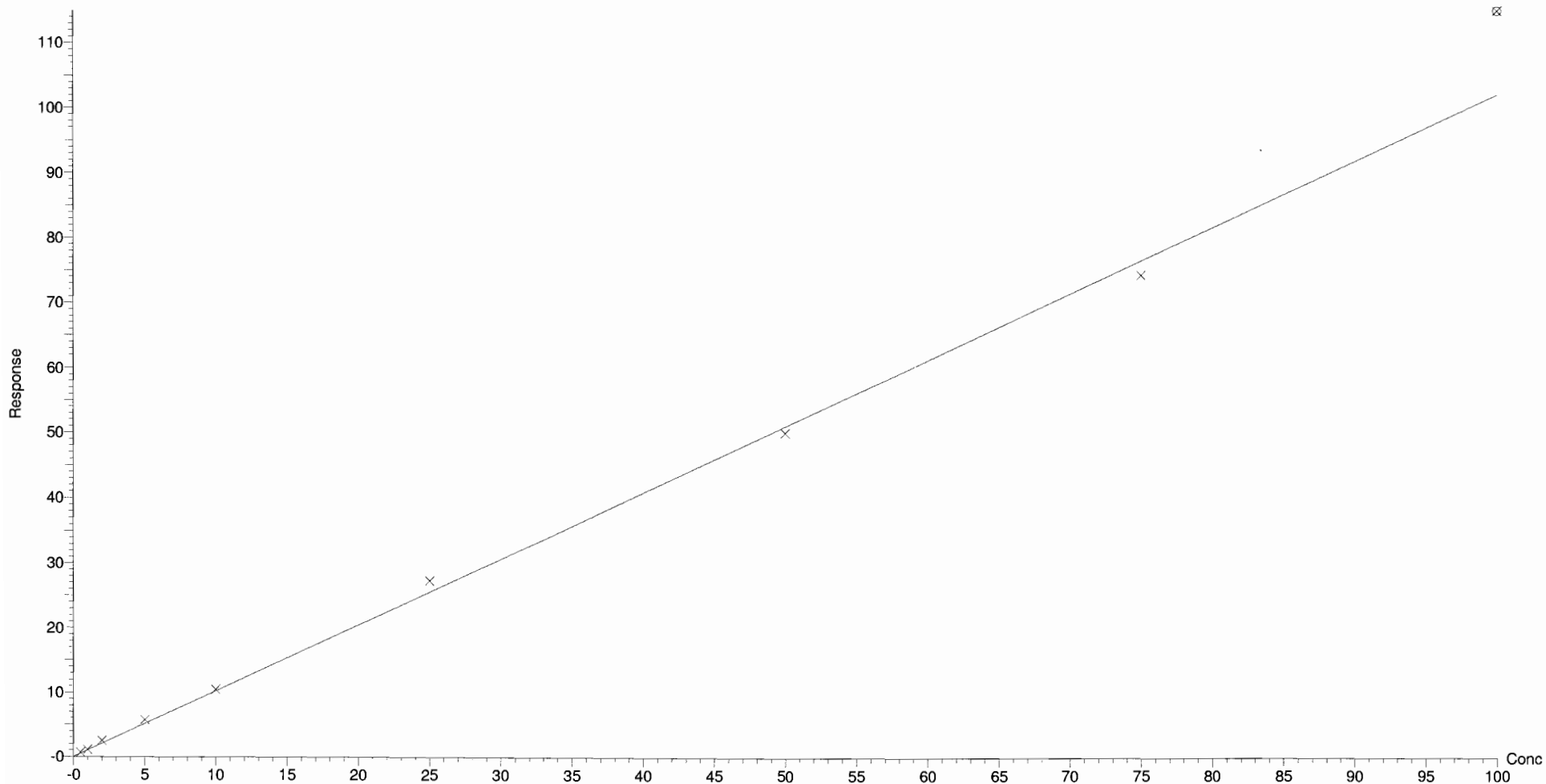
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.997317$

Calibration curve: $1.0203 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

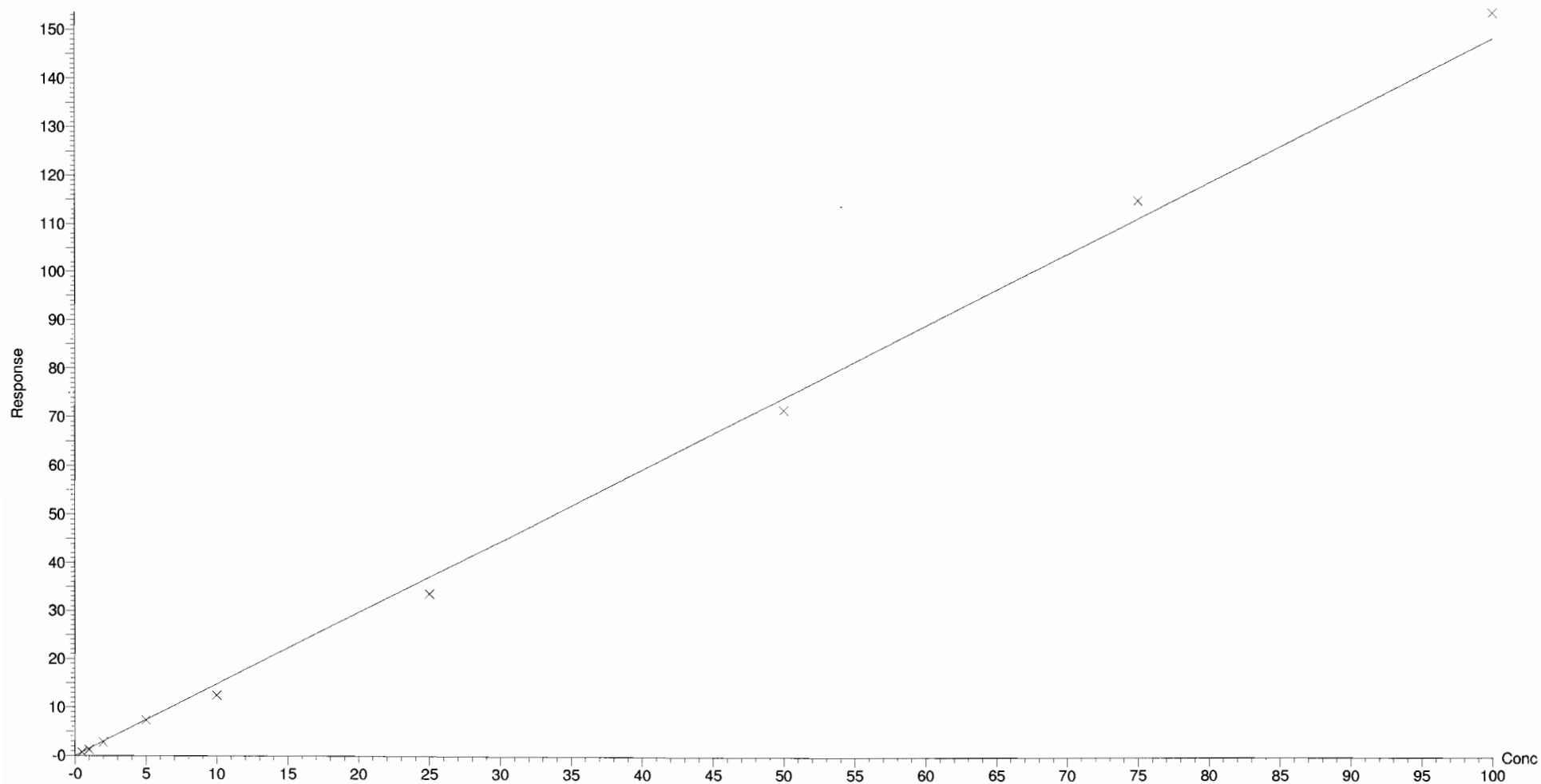
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.996817$

Calibration curve: $1.4828 * x$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



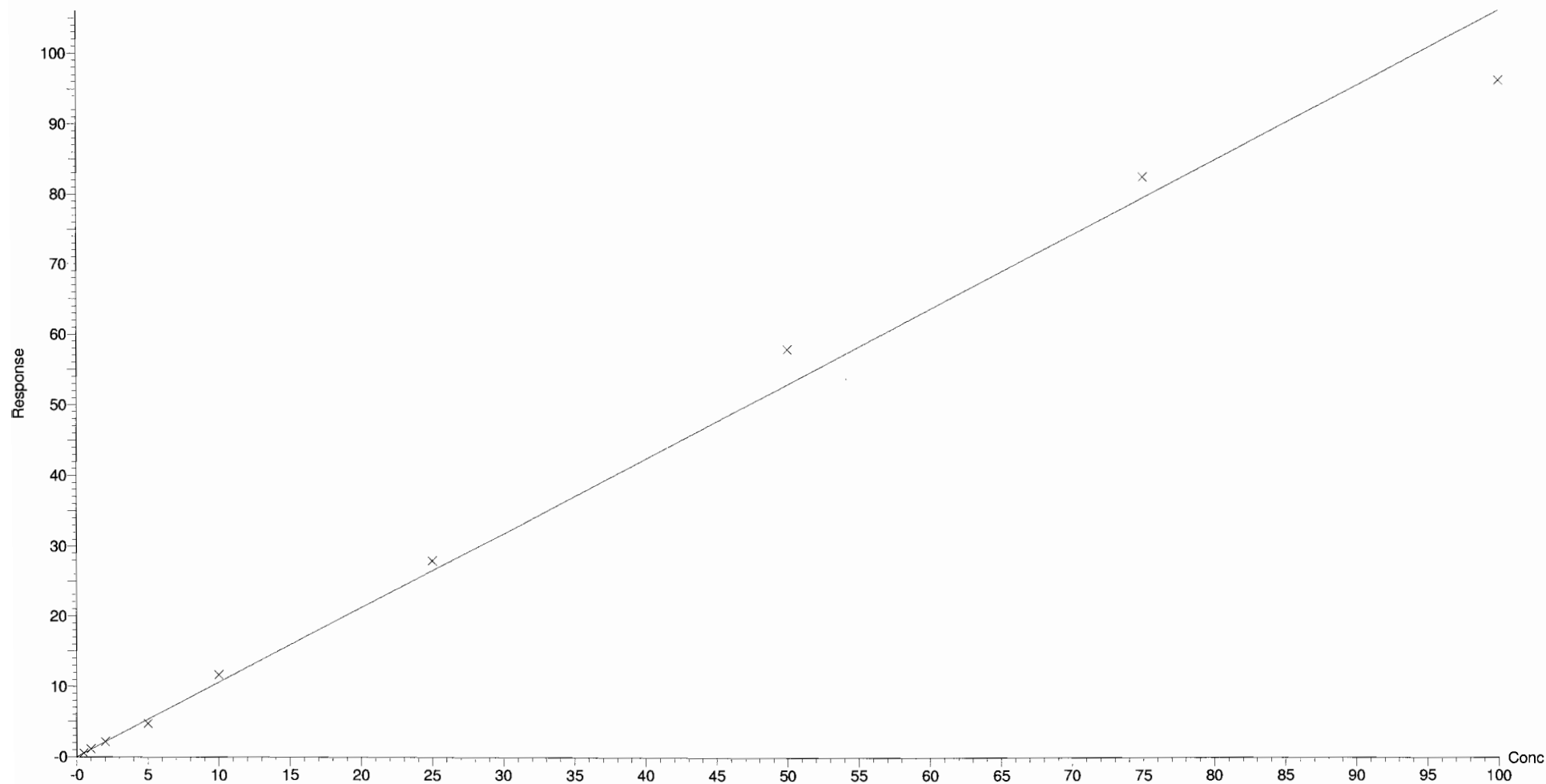
MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

Compound name: N-EtFOSAA
Coefficient of Determination: $R^2 = 0.993395$
Calibration curve: $1.05983 * x$
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

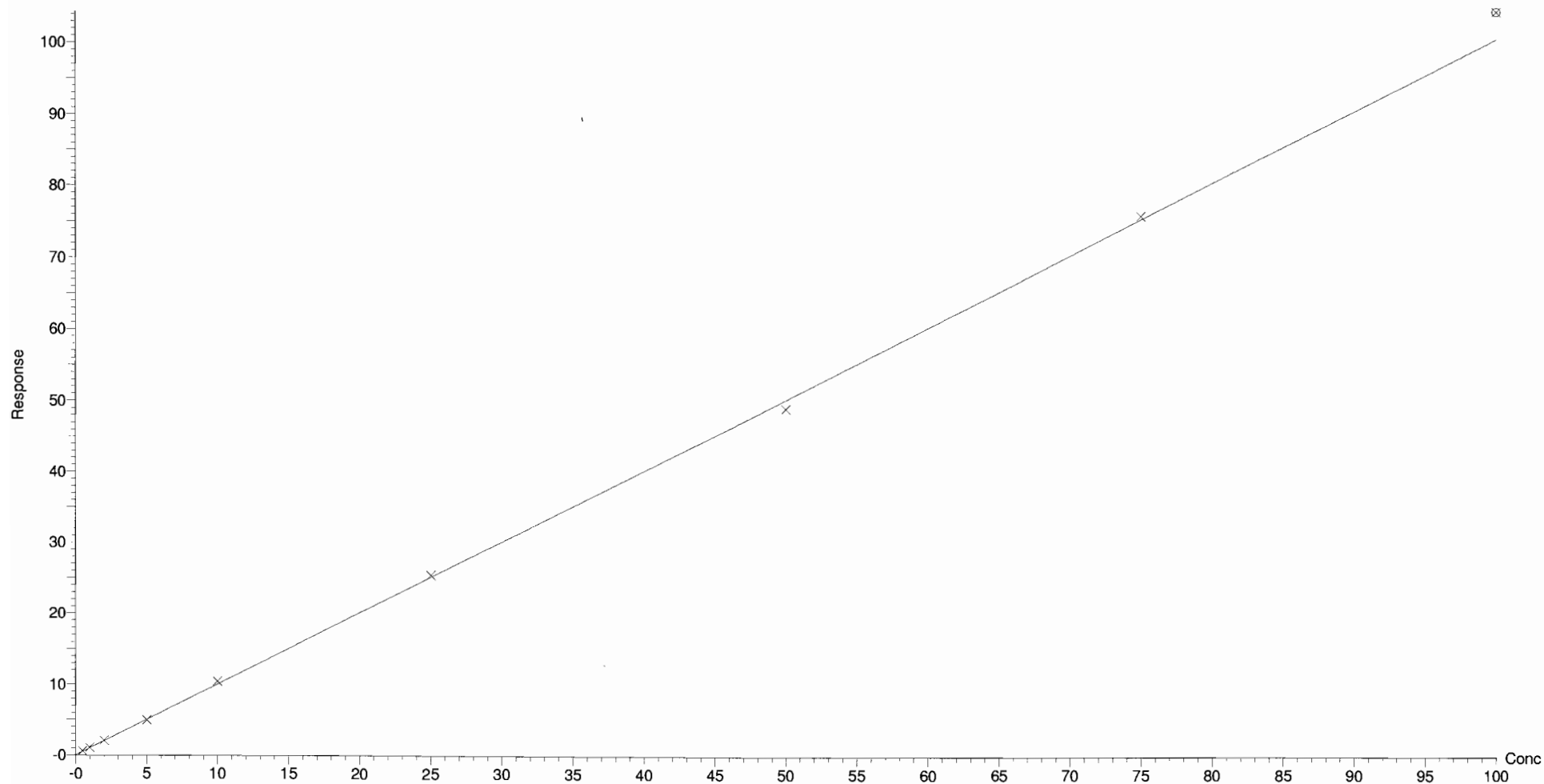
Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.999540$

Calibration curve: $1.00493 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

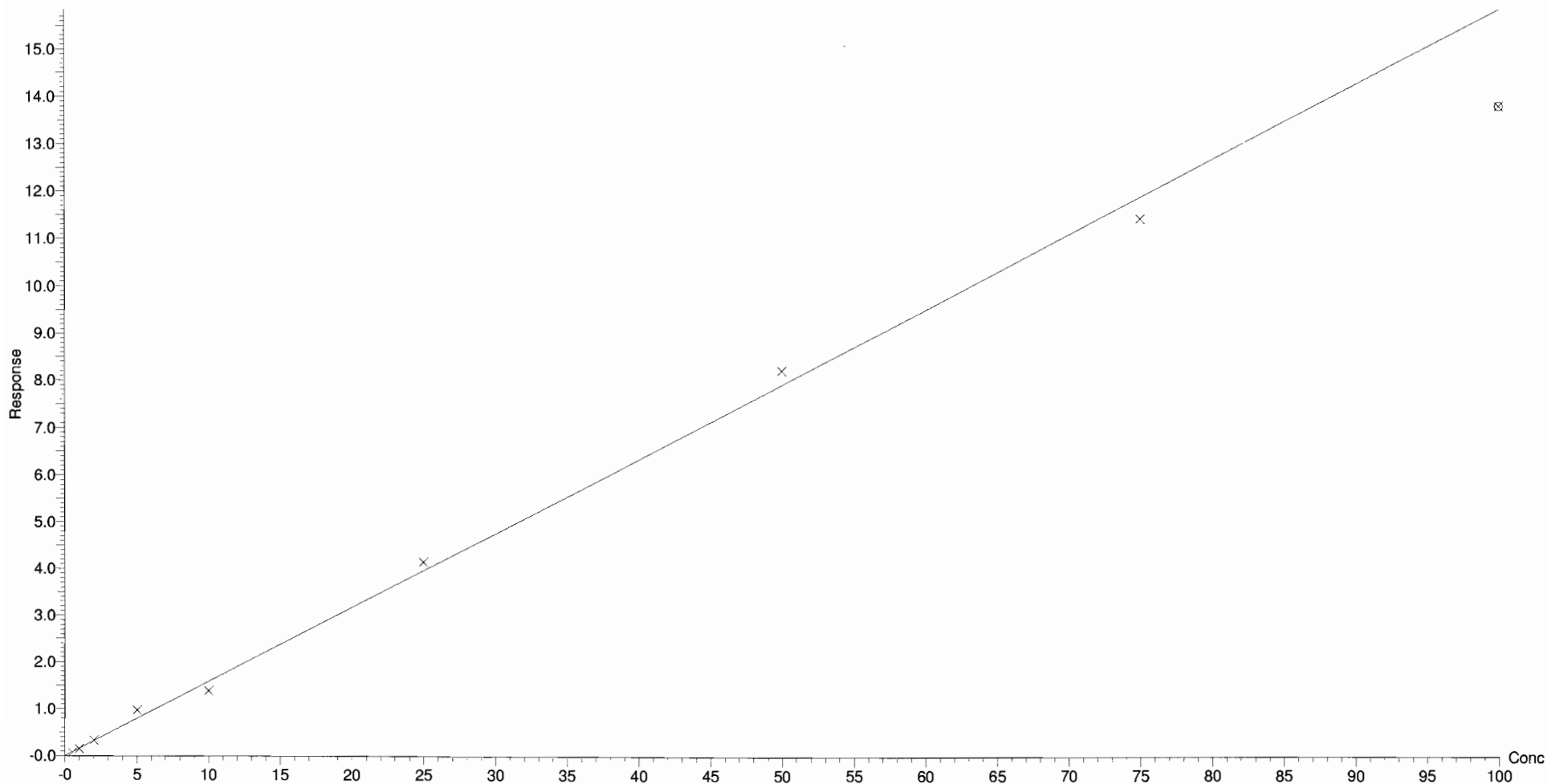
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.995506$

Calibration curve: $0.158397 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

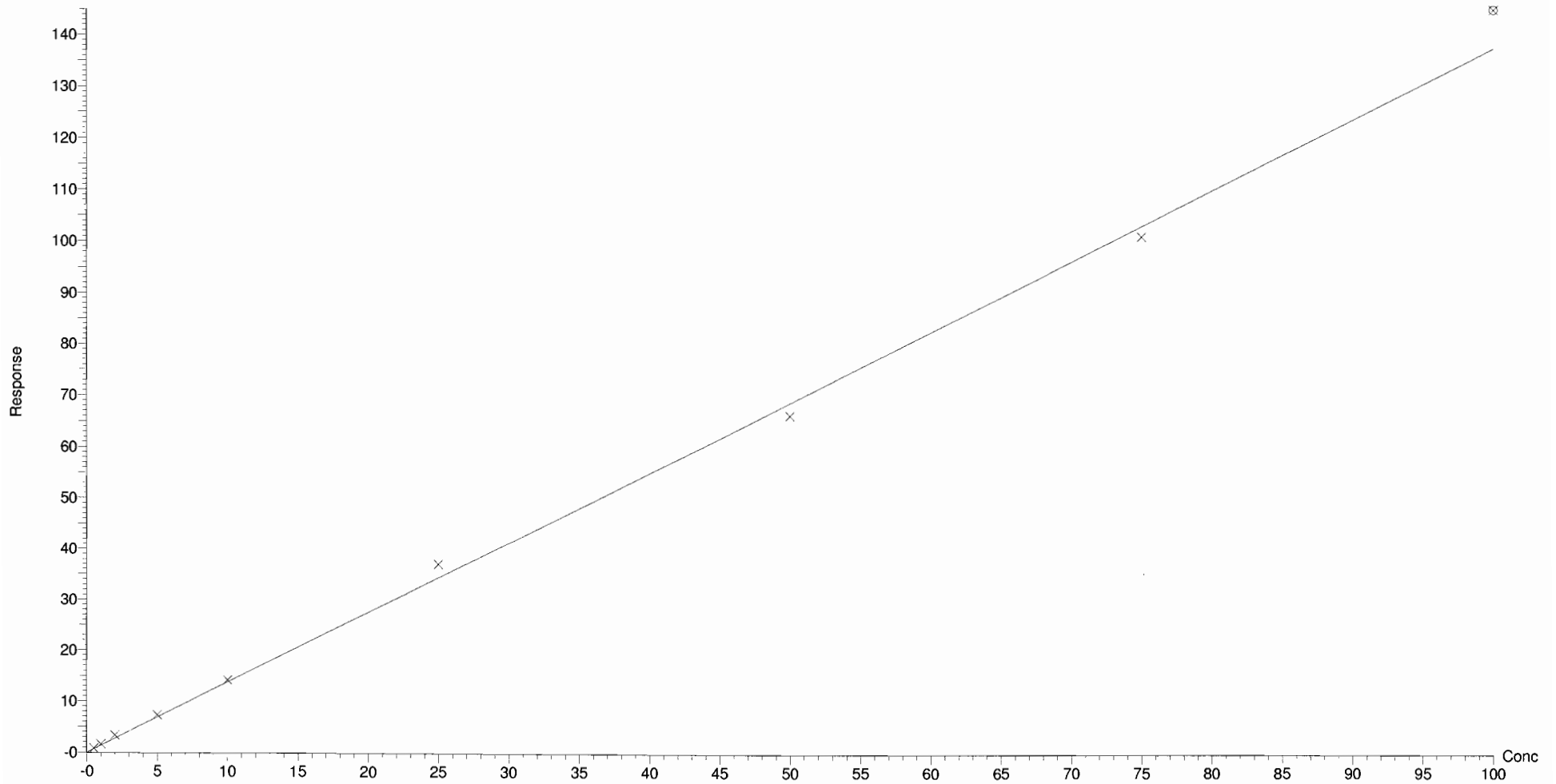
Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.997291$

Calibration curve: $1.3743 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:26:36 Pacific Standard Time

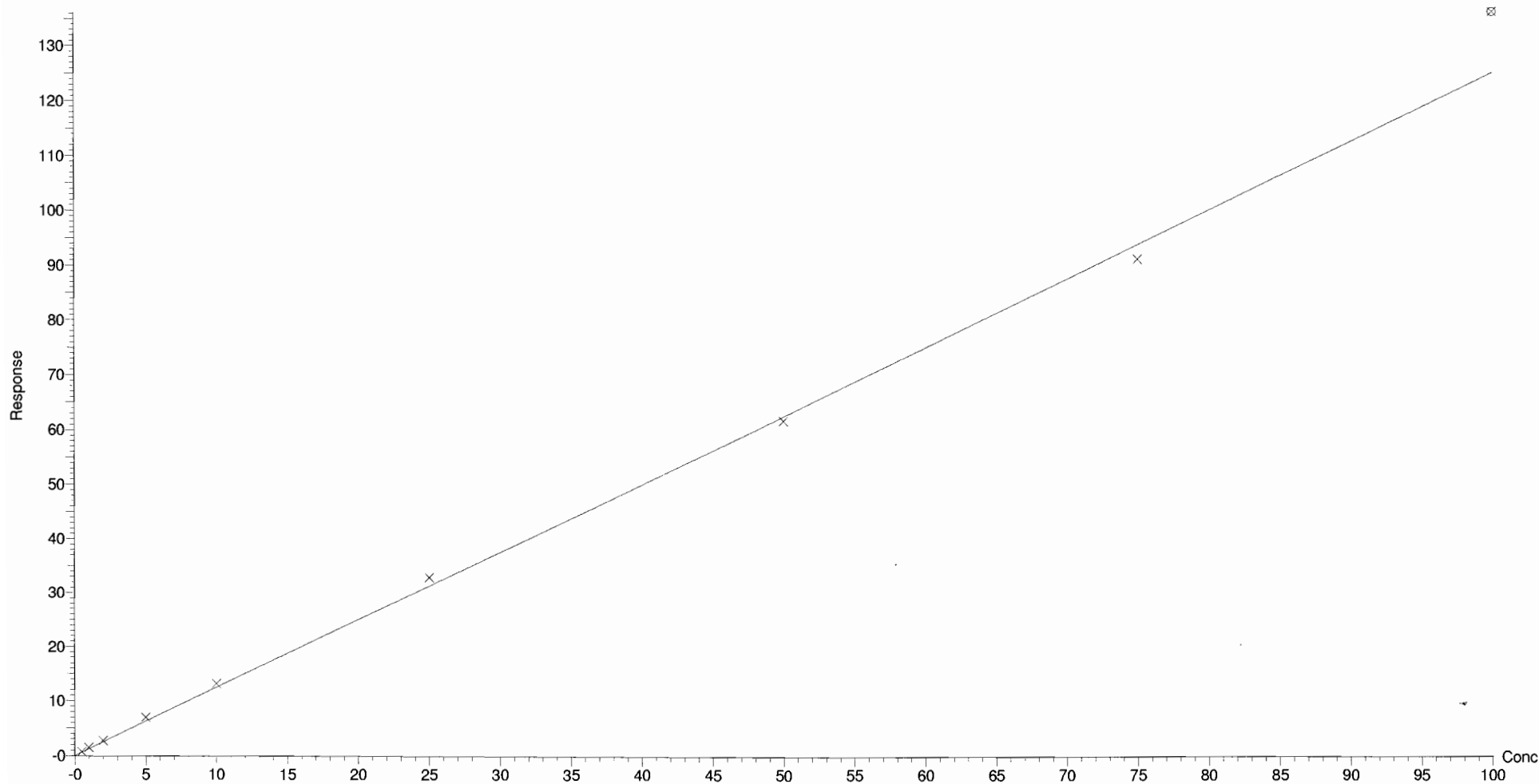
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.998250$

Calibration curve: $1.24932 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



MJT 2/23/2018

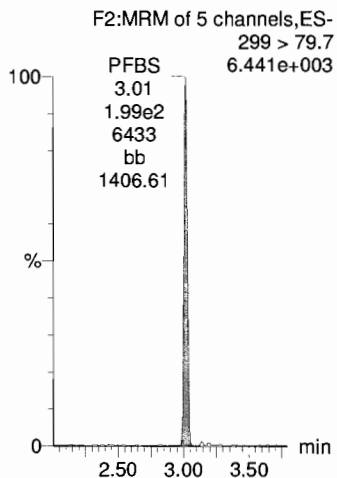
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Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time
Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

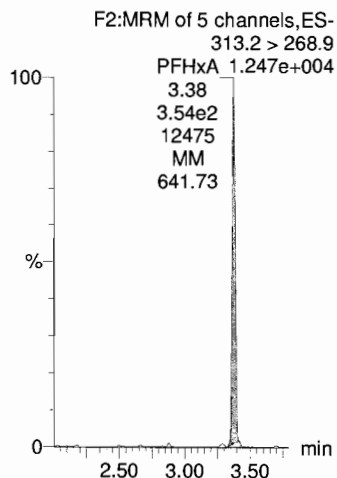
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Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 17:19:14

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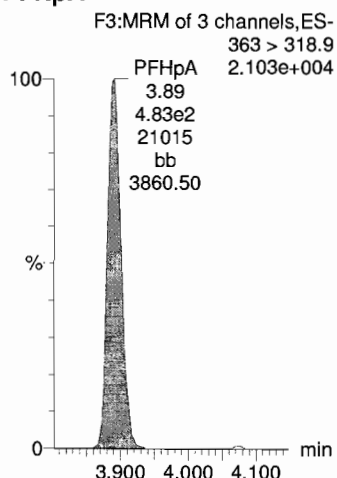
PFBS



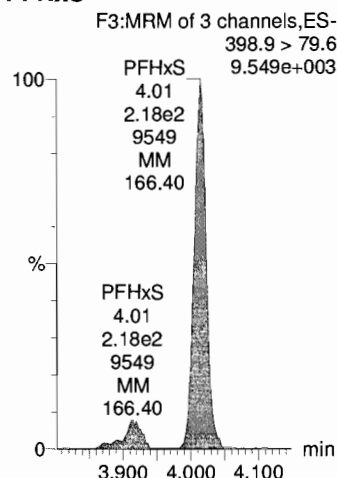
PFHxA



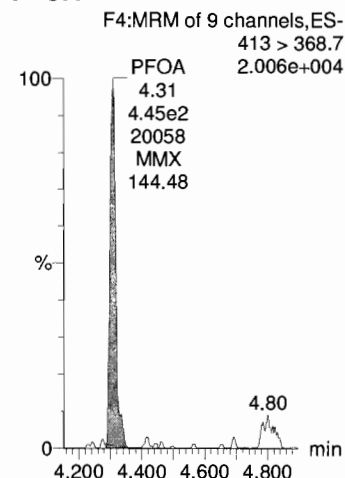
PFHpA



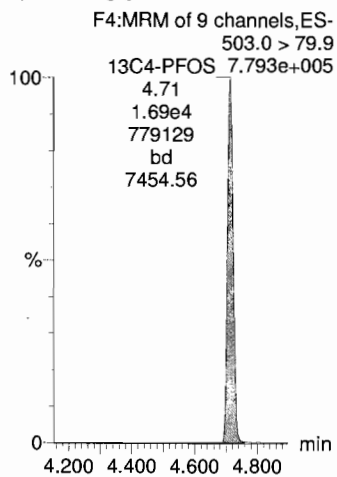
PFHxS



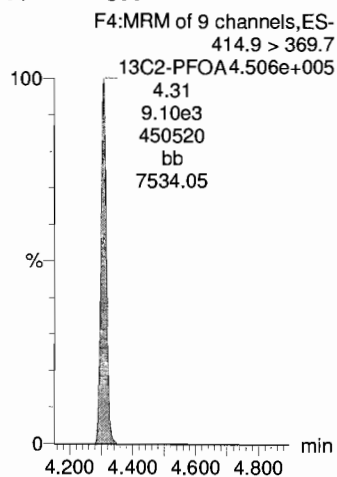
PFOA



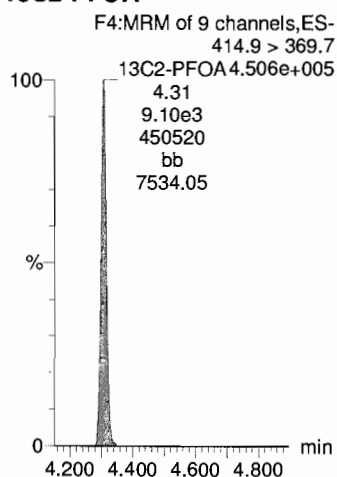
13C4-PFOS



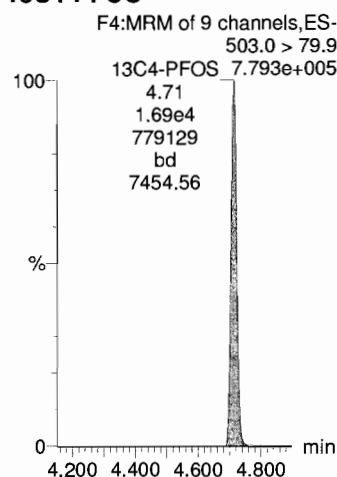
13C2-PFOA



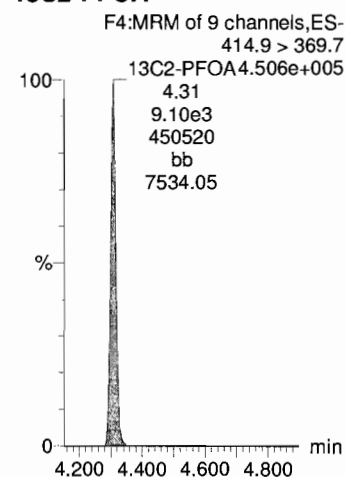
13C2-PFOA



13C4-PFOS



13C2-PFOA



MJT 2/23/2018

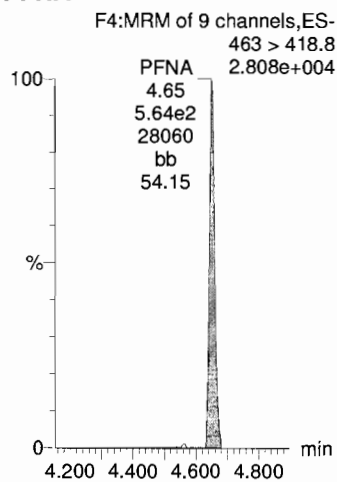
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Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

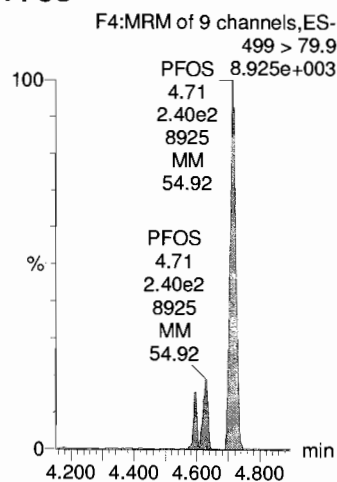
Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_2, Date: 23-Feb-2018, Time: 13:29:59, ID: ST180223G2-1 PFC CS-3 537 18B2301, Description: PFC CS-3 537 18B2301

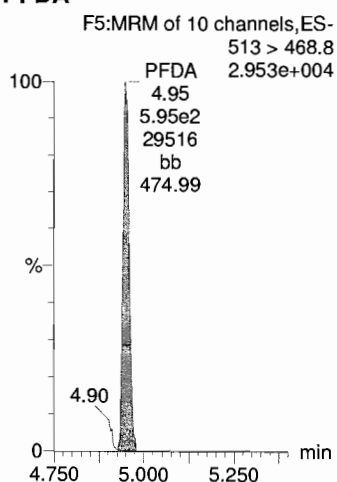
PFNA



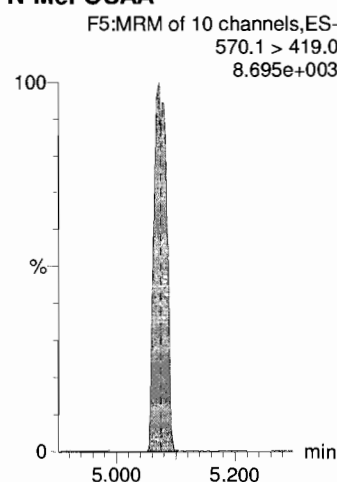
PFOS



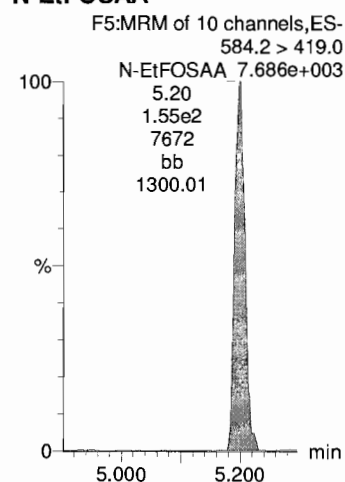
PFDA



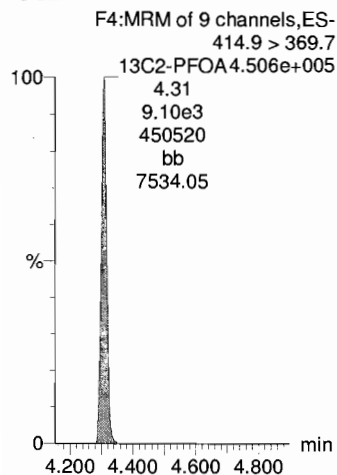
N-MeFOSAA



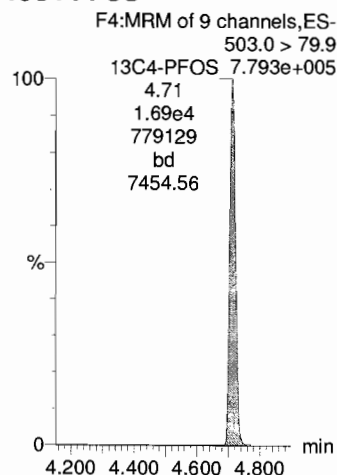
N-EtFOSAA



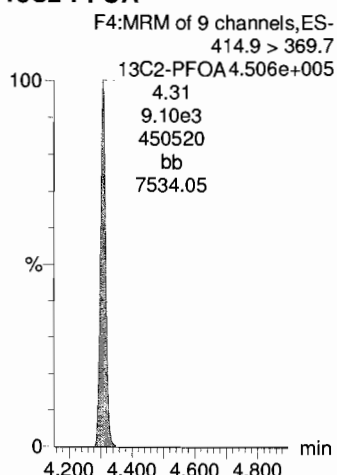
13C2-PFOA



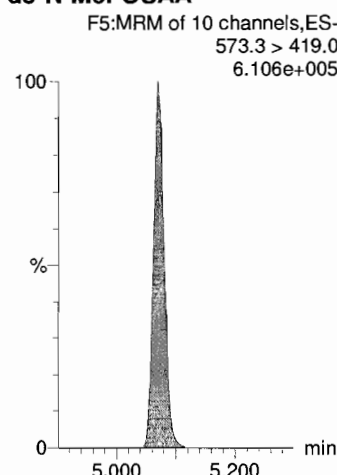
13C4-PFOS



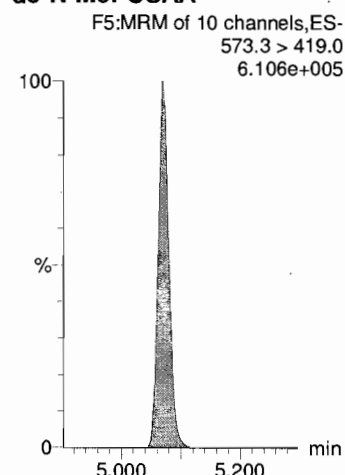
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA

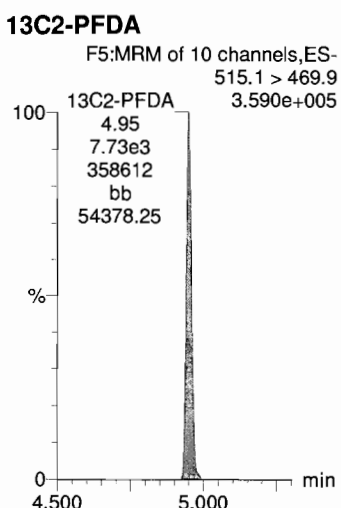
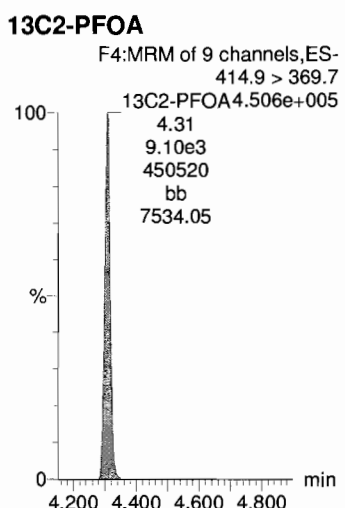
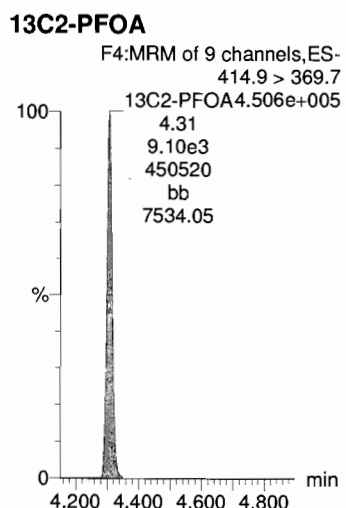
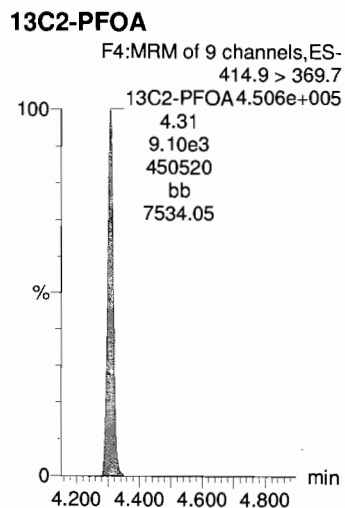
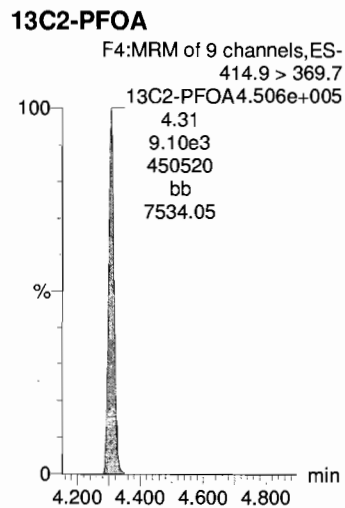
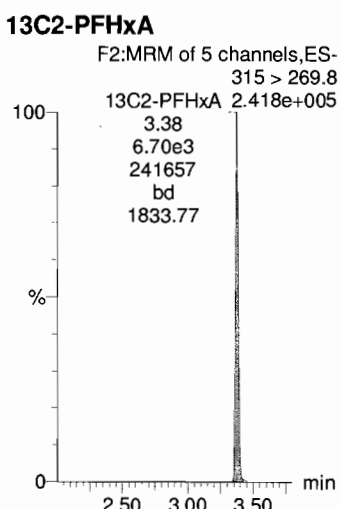
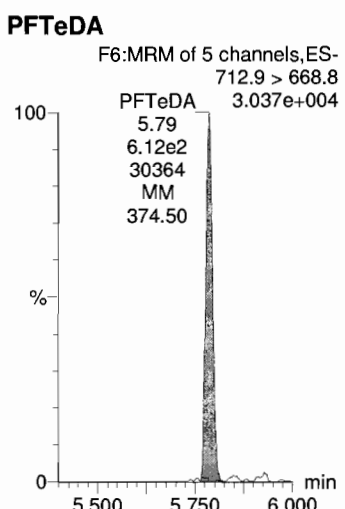
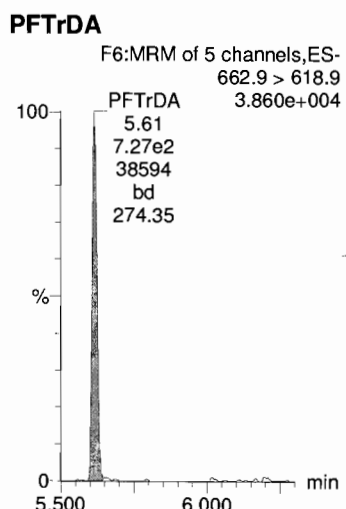
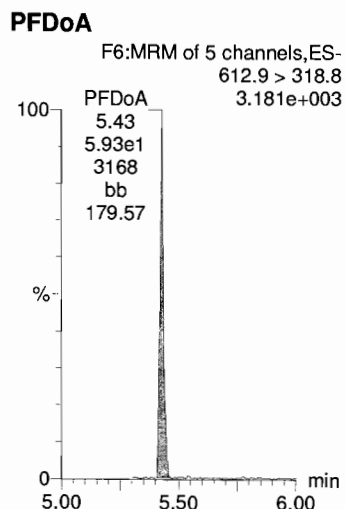
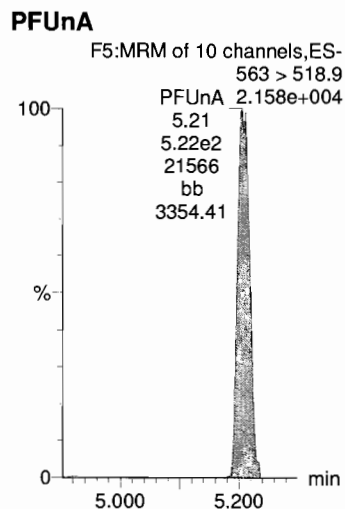


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Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_2, Date: 23-Feb-2018, Time: 13:29:59, ID: ST180223G2-1 PFC CS-3 537 18B2301, Description: PFC CS-3 537 18B2301



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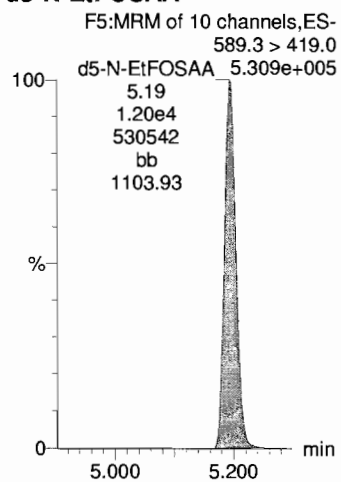
Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_2, Date: 23-Feb-2018, Time: 13:29:59, ID: ST180223G2-1 PFC CS-3 537 18B2301, Description: PFC CS-3 537 18B2301

d5-N-EtFOSAA



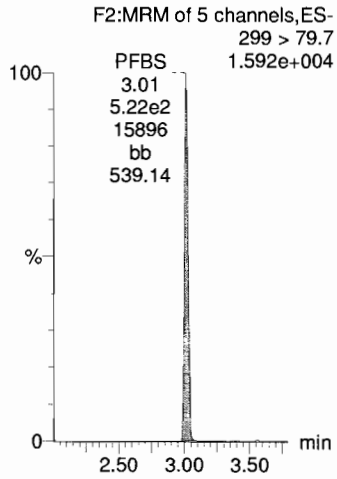
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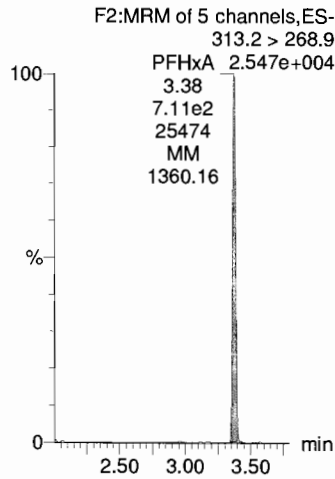
Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_3, Date: 23-Feb-2018, Time: 13:42:20, ID: ST180223G2-2 PFC CS-2 537 18B2302, Description: PFC CS-2 537 18B2302

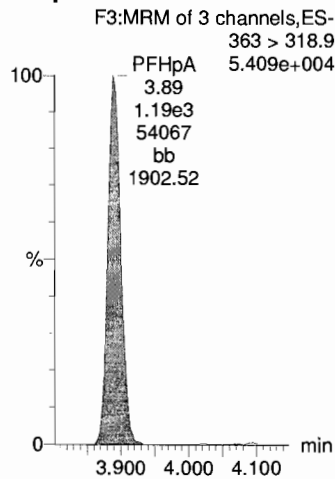
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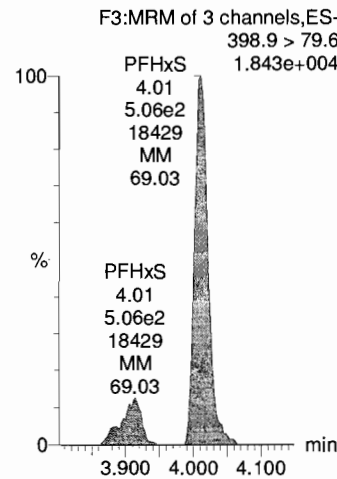
PFHxA



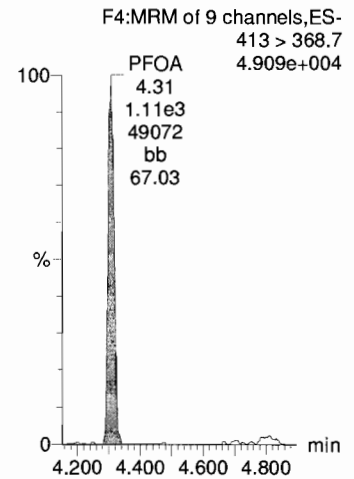
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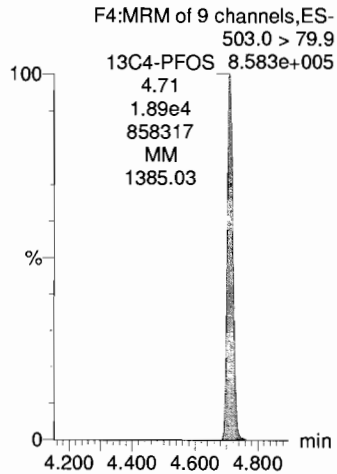
PFHxS



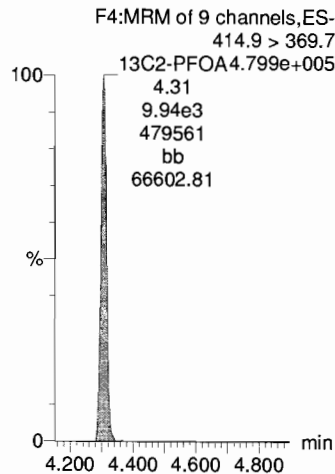
PFOA



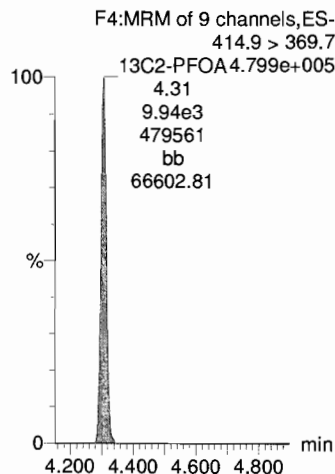
13C4-PFOS



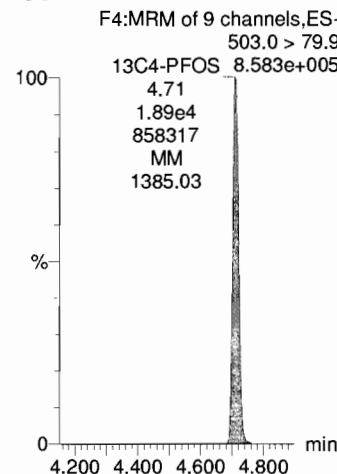
13C2-PFOA



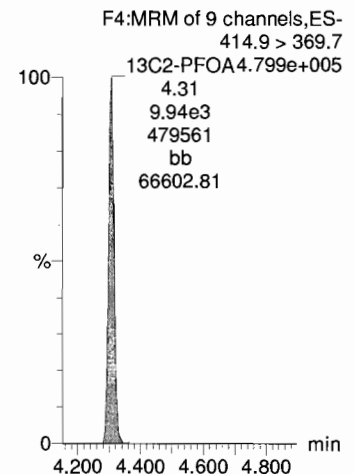
13C2-PFOA



13C4-PFOS



13C2-PFOA



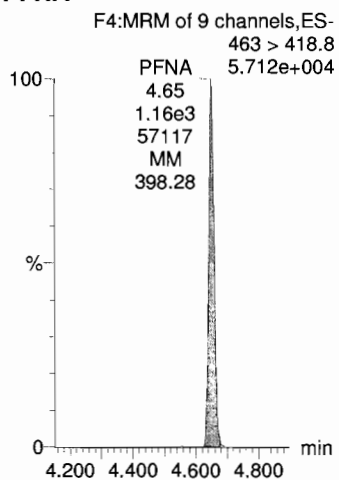
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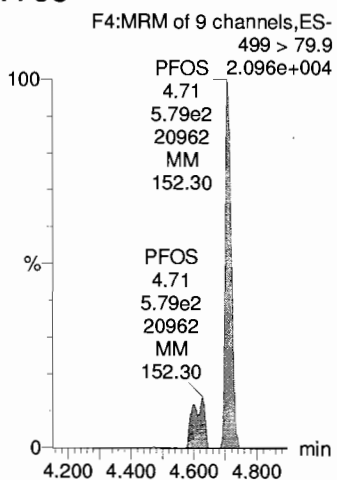
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Name: 180223G2_3, Date: 23-Feb-2018, Time: 13:42:20, ID: ST180223G2-2 PFC CS-2 537 18B2302, Description: PFC CS-2 537 18B2302

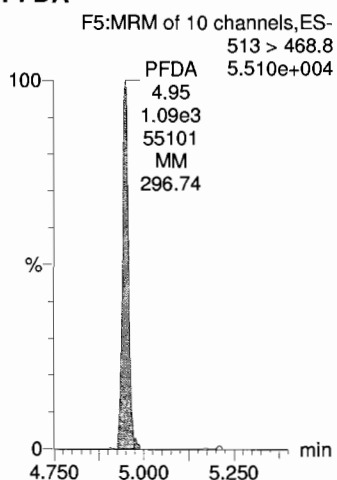
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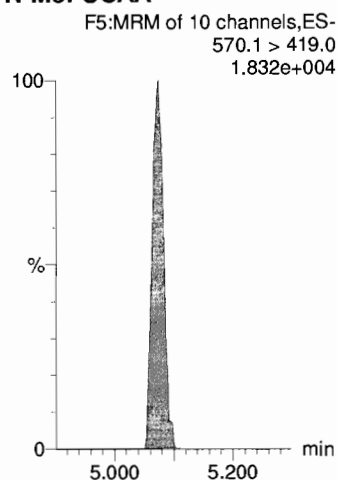
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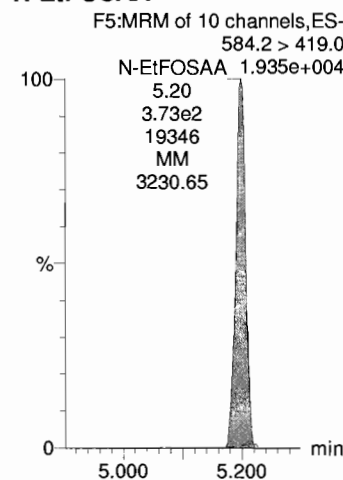
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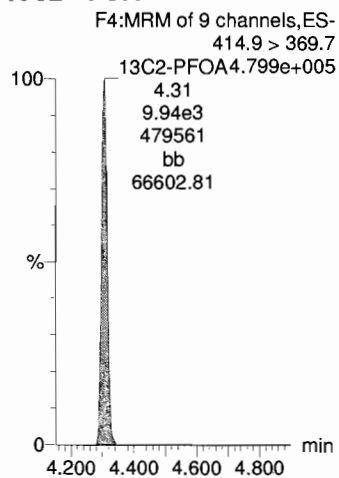
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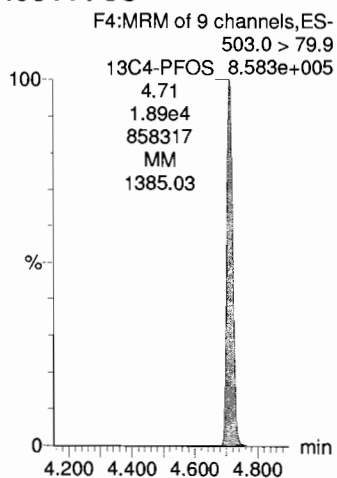
N-EtFOSAA



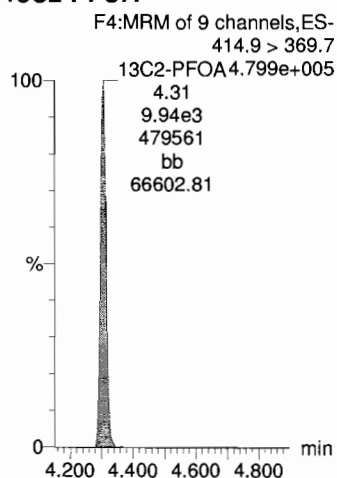
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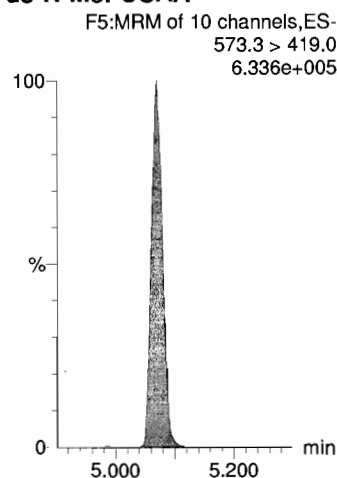
13C4-PFOS



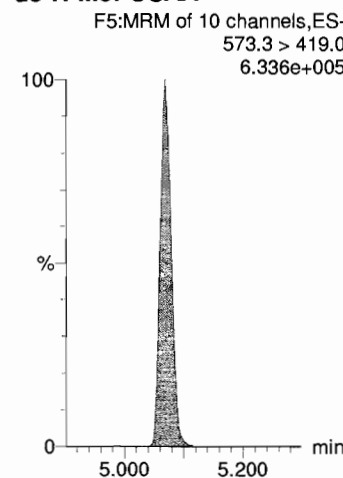
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d3-N-MeFOSAA



d3-N-MeFOSAA

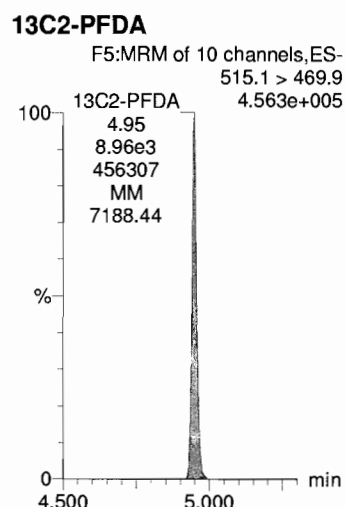
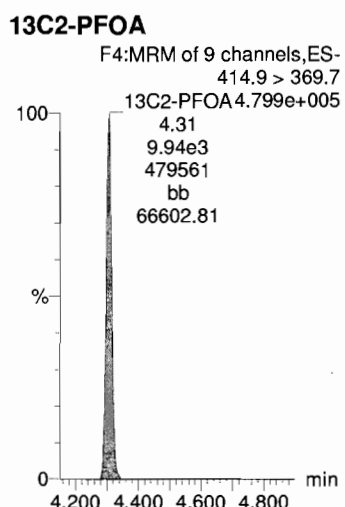
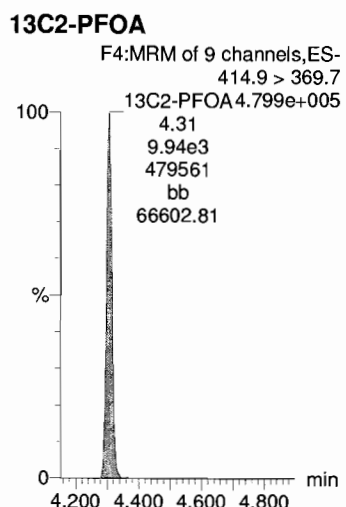
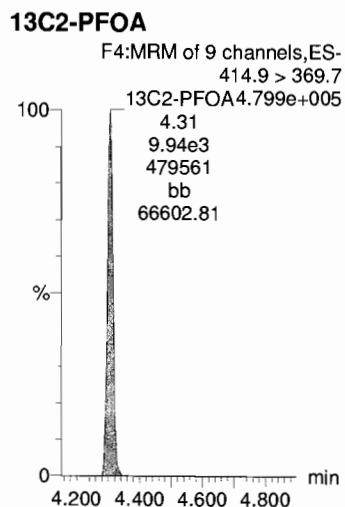
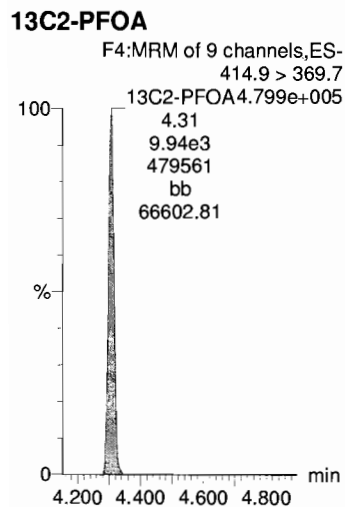
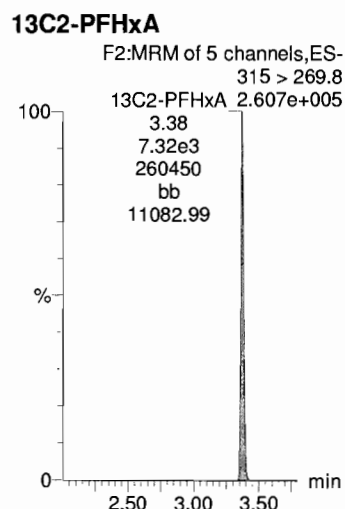
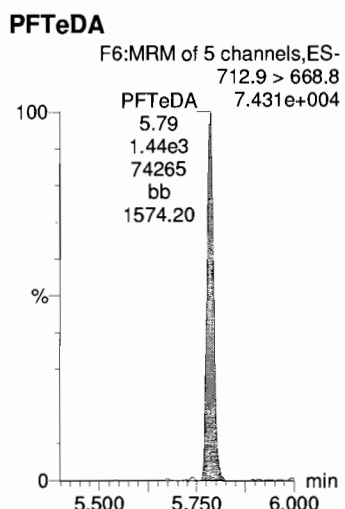
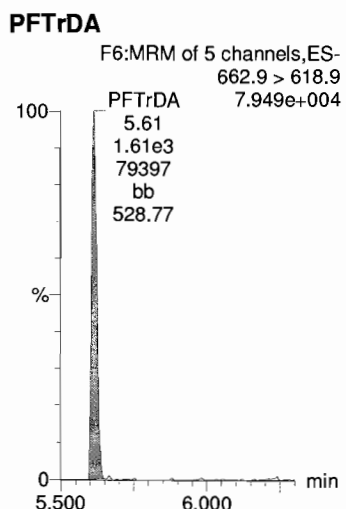
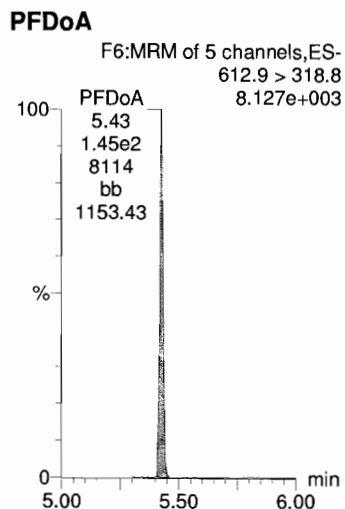
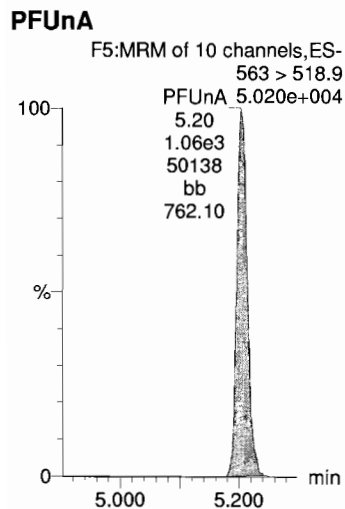


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Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time
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Name: 180223G2_3, Date: 23-Feb-2018, Time: 13:42:20, ID: ST180223G2-2 PFC CS-2 537 18B2302, Description: PFC CS-2 537 18B2302



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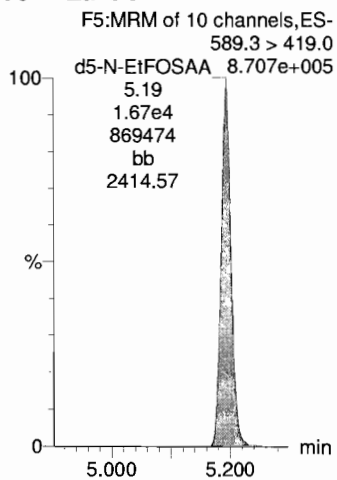
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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_3, Date: 23-Feb-2018, Time: 13:42:20, ID: ST180223G2-2 PFC CS-2 537 18B2302, Description: PFC CS-2 537 18B2302

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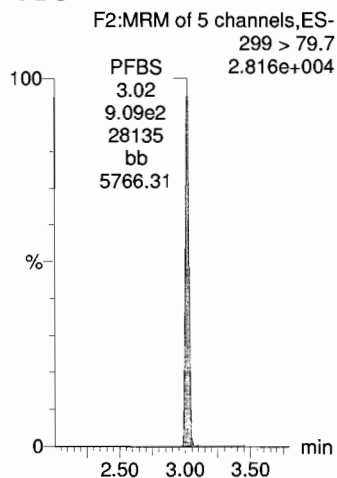


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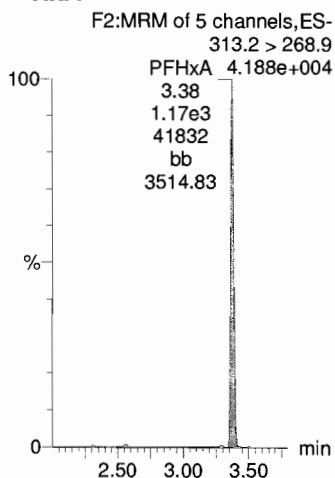
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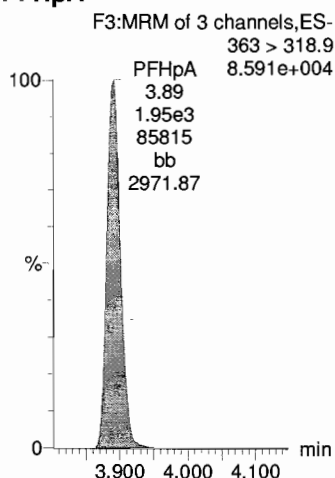
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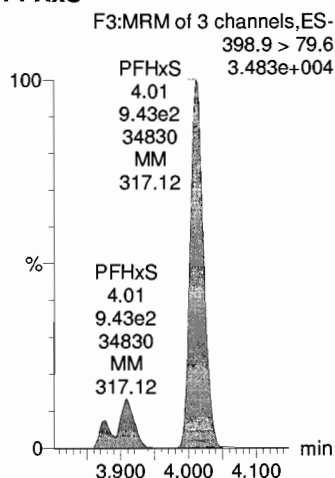
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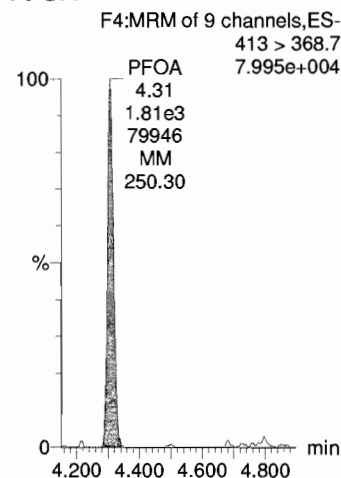
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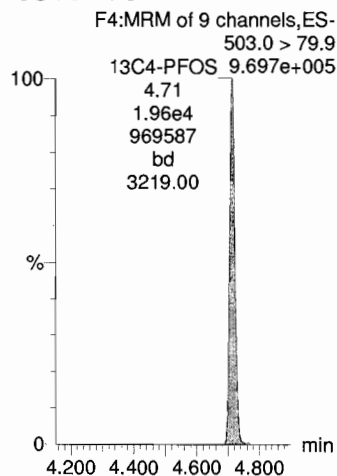
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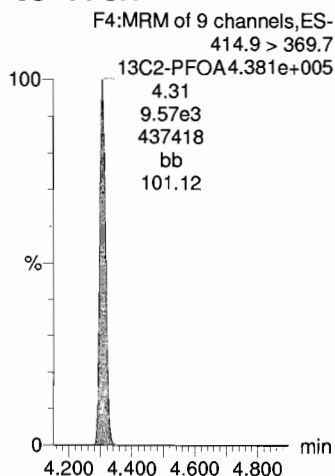
PFOA



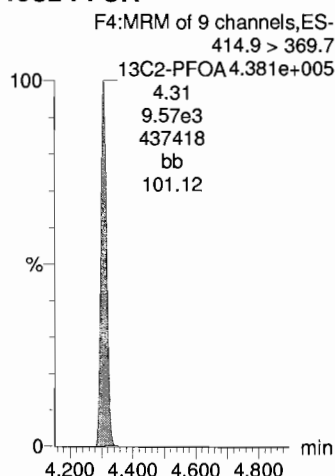
13C4-PFOS



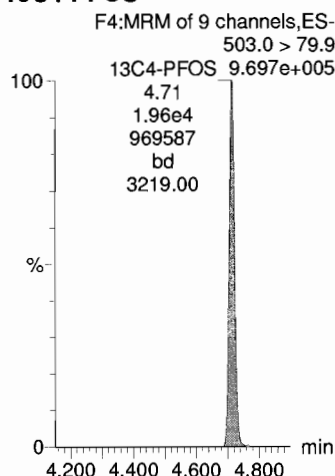
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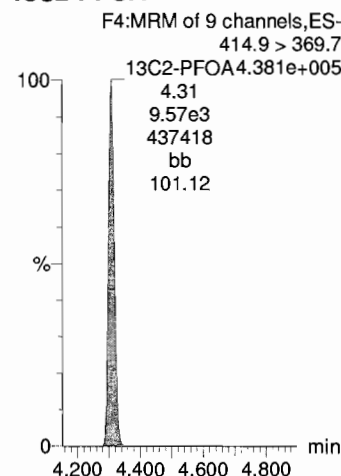
13C2-PFOA



13C4-PFOS



13C2-PFOA



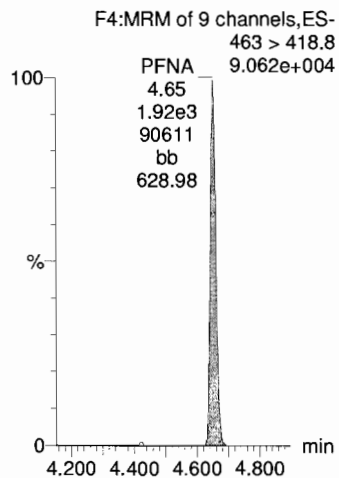
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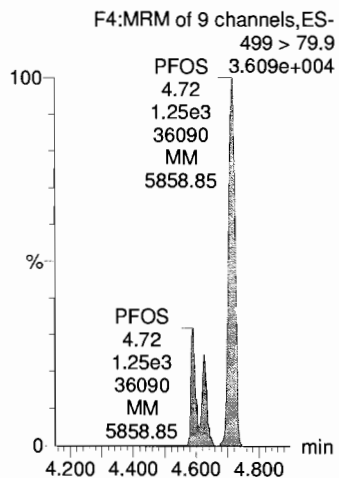
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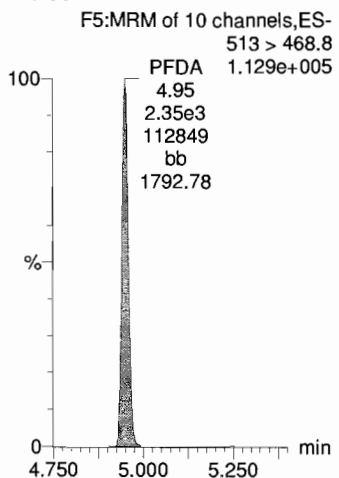
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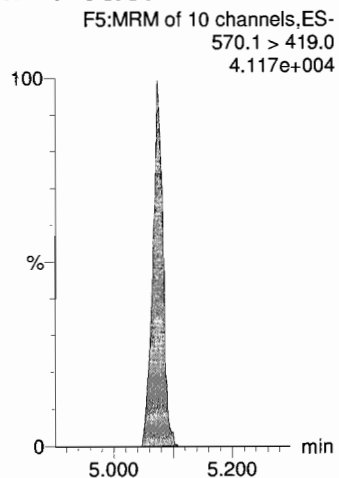
PFOS



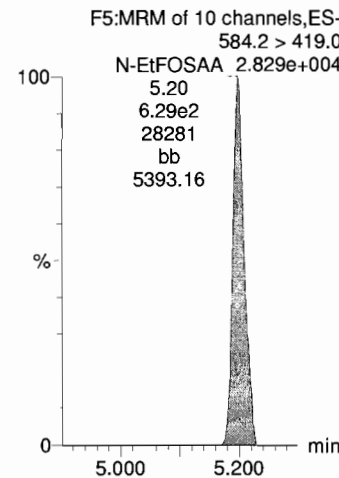
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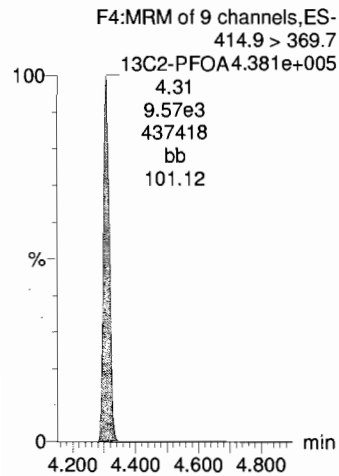
N-MeFOSAA



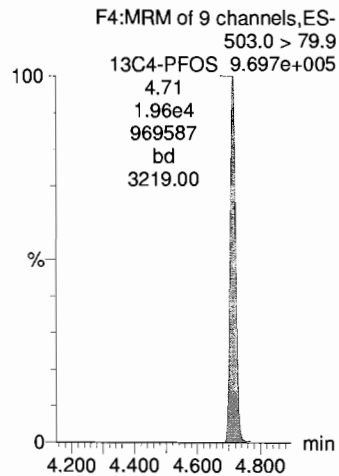
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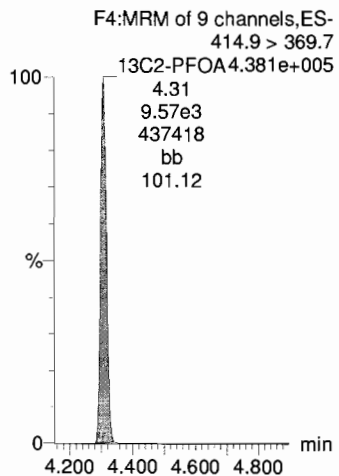
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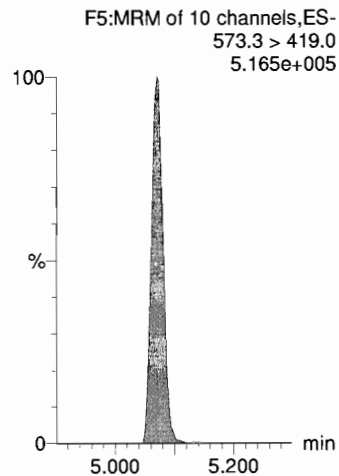
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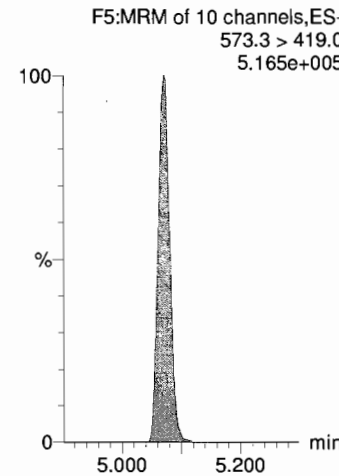
13C2-PFOA



d3-N-MeFOSAA



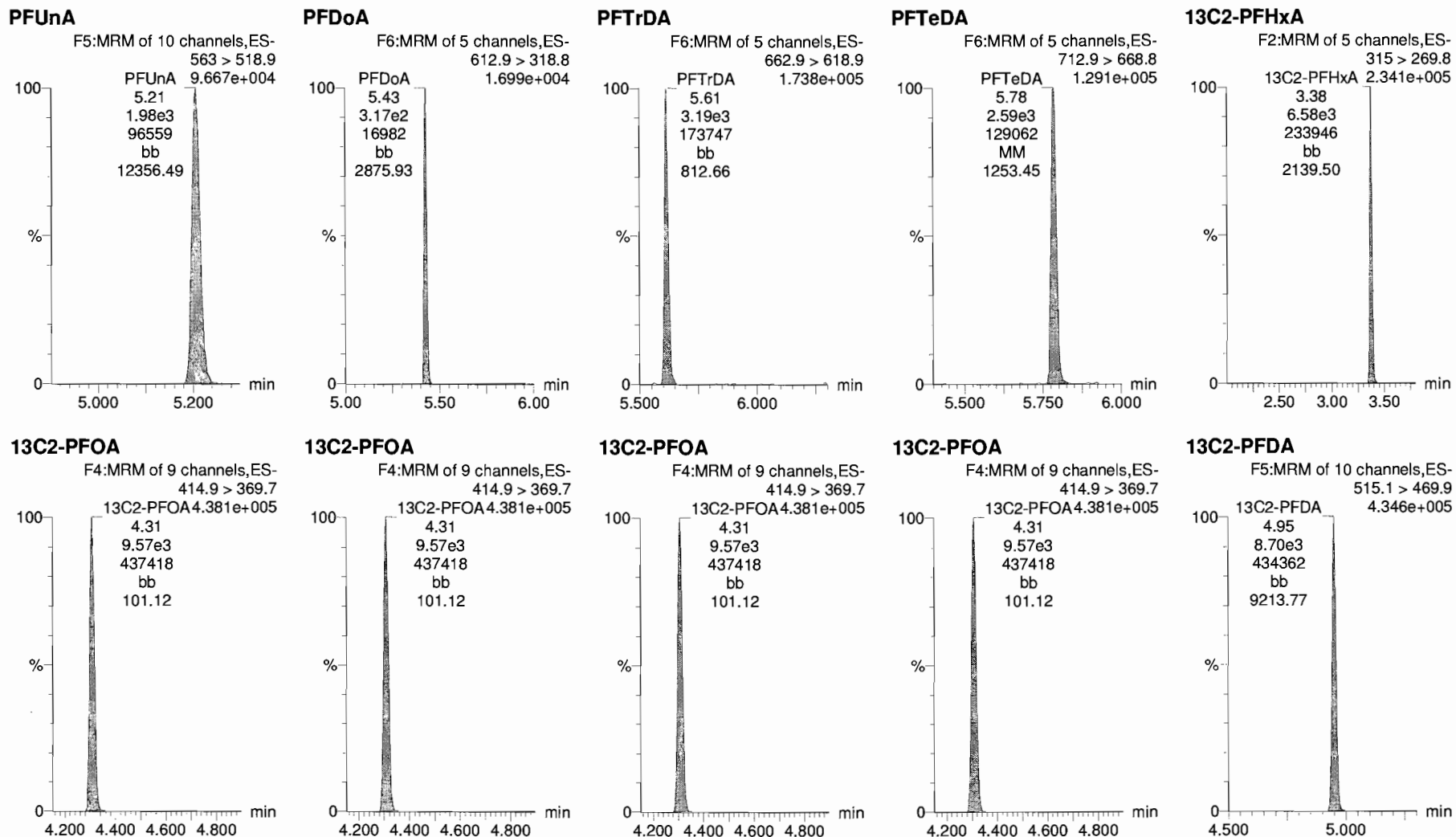
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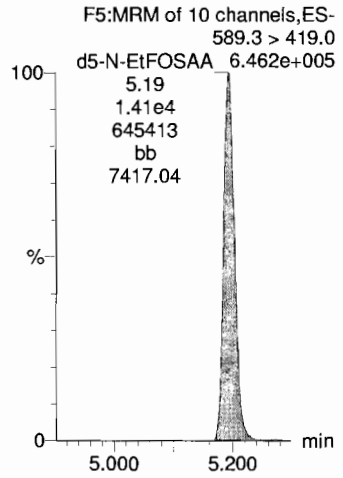
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Name: 180223G2_4, Date: 23-Feb-2018, Time: 13:54:45, ID: ST180223G2-3 PFC CS-1 537 18B2310, Description: PFC CS-1 537 18B2310

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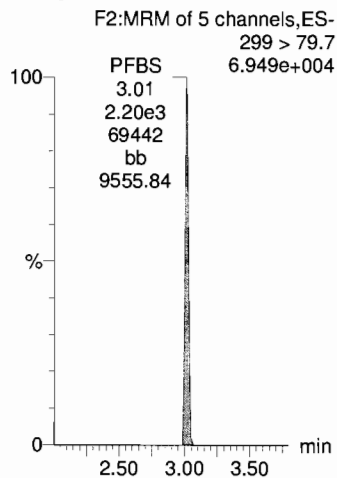
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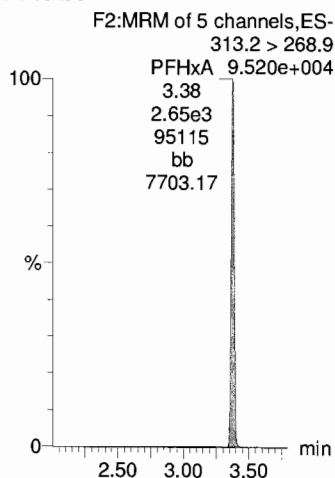
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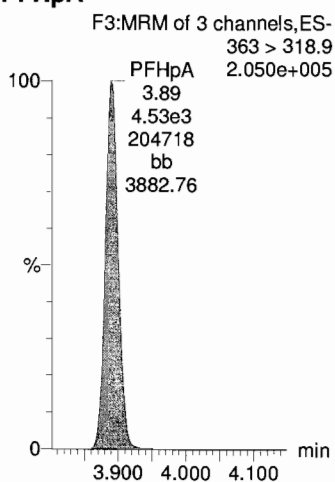
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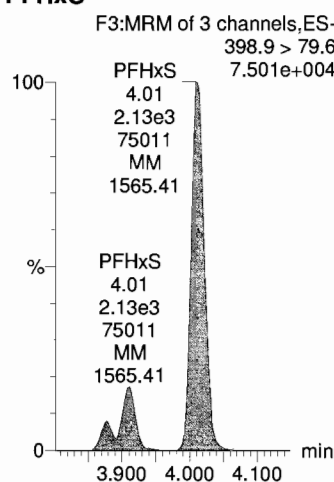
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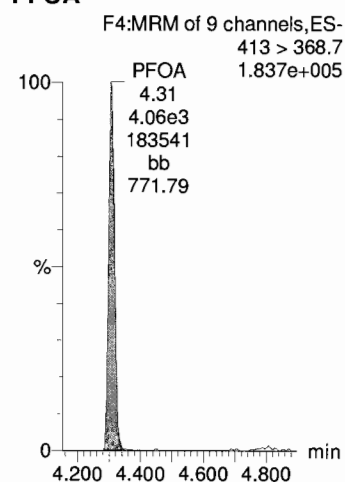
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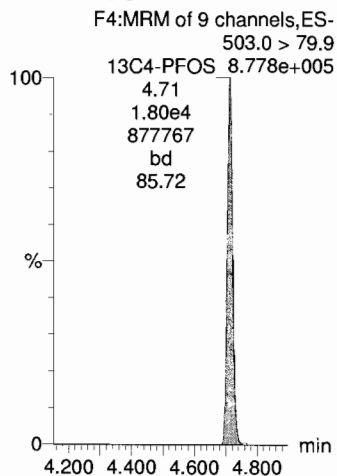
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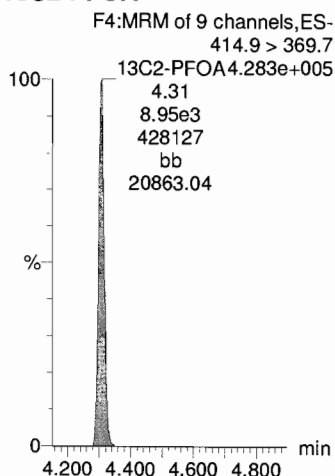
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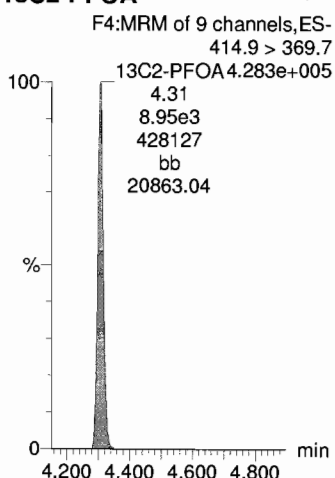
13C4-PFOS



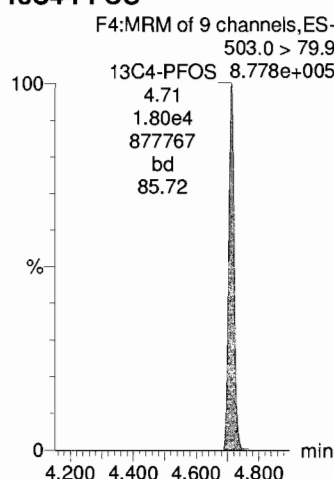
13C2-PFOA



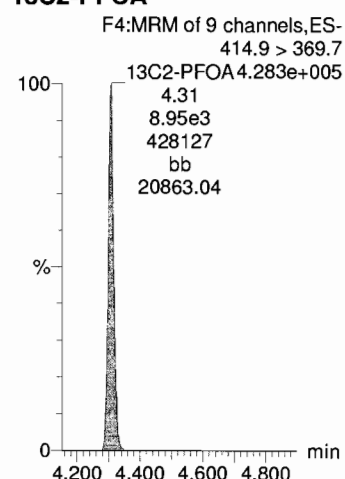
13C2-PFOA



13C4-PFOS



13C2-PFOA

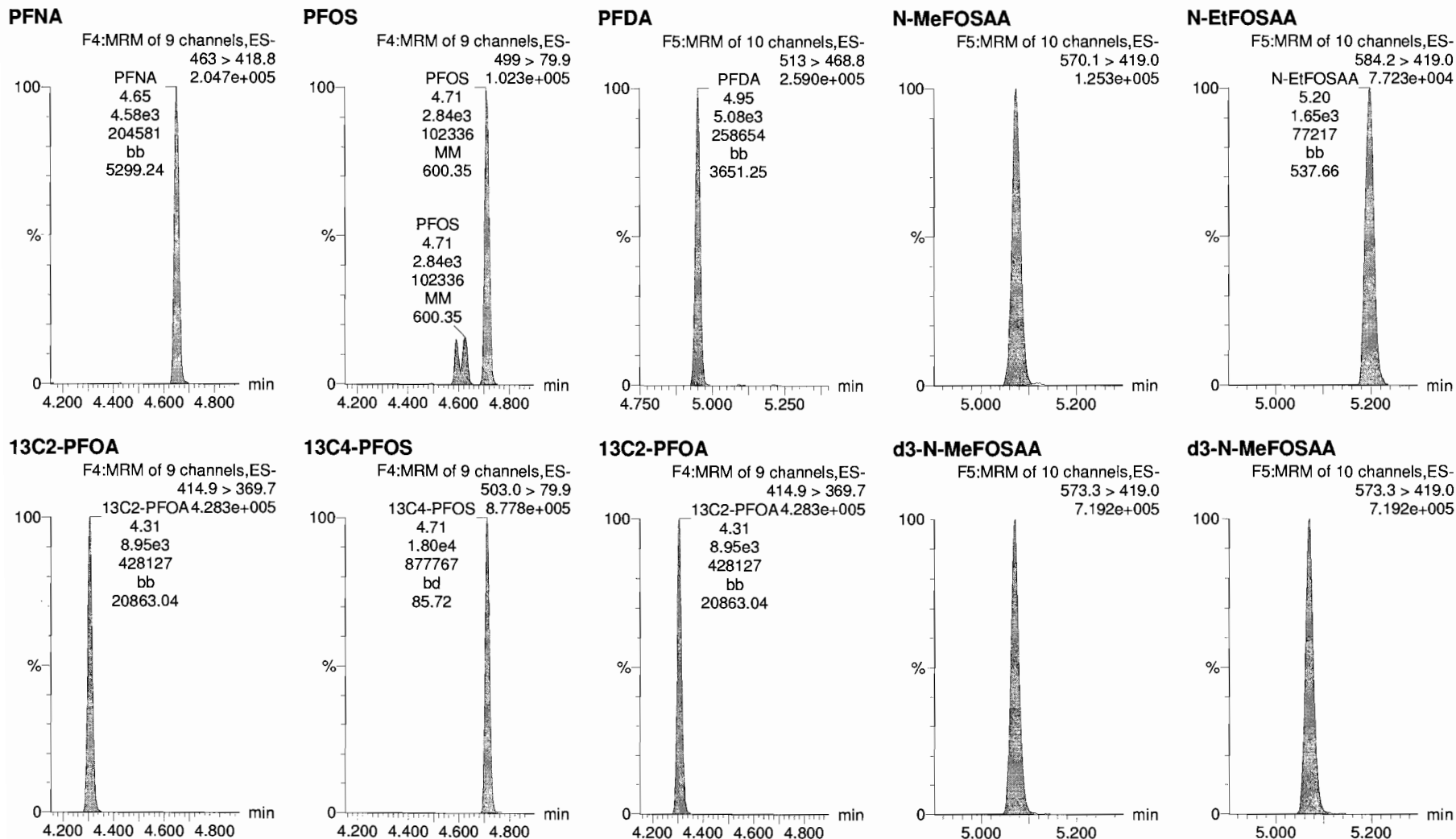


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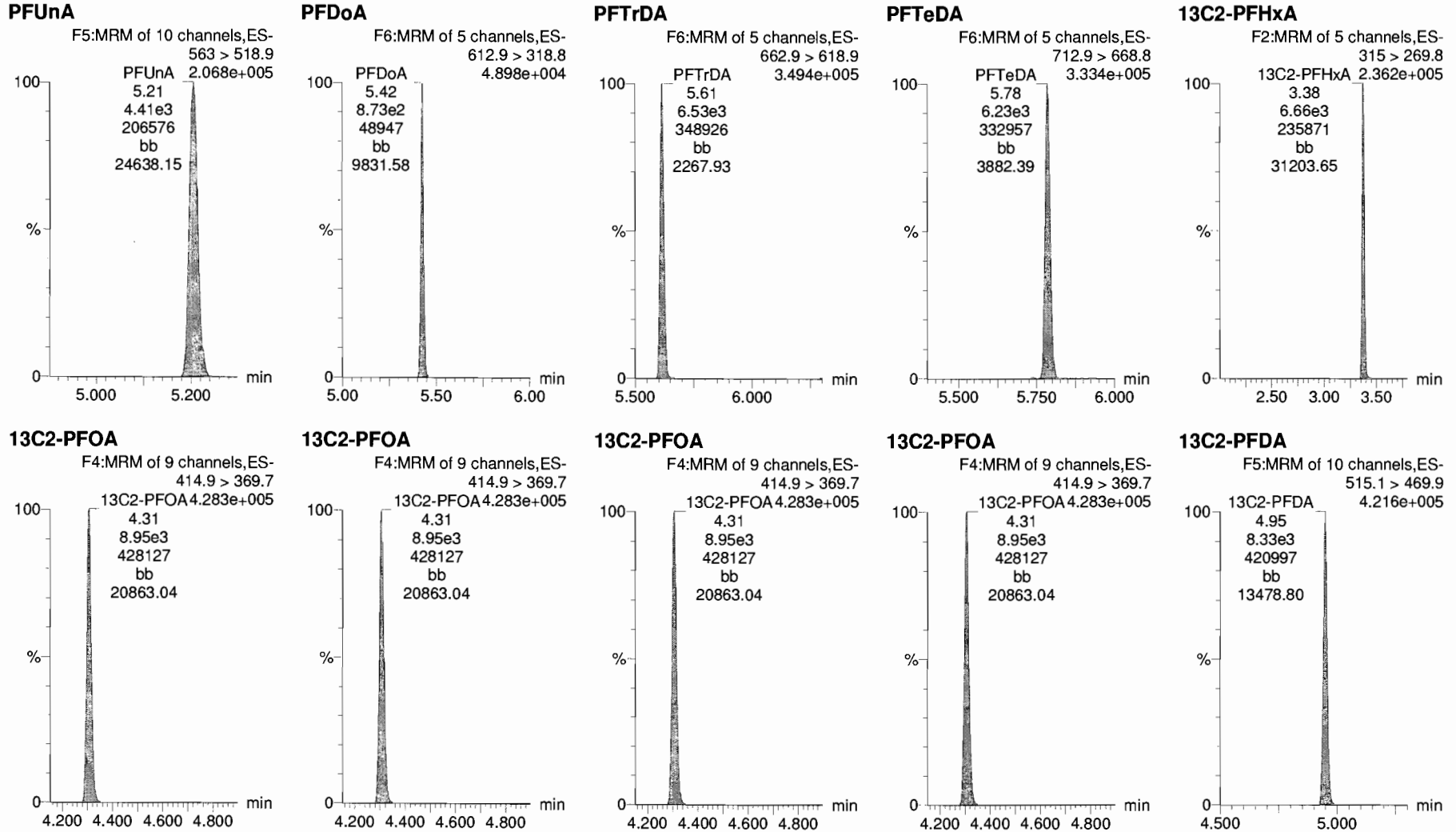


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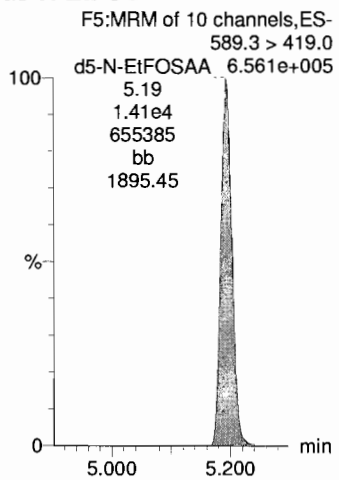
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Name: 180223G2_5, Date: 23-Feb-2018, Time: 14:07:10, ID: ST180222G3-4 PFC CS0 537 18B2303, Description: PFC CS0 537 18B2303

d5-N-EtFOSAA



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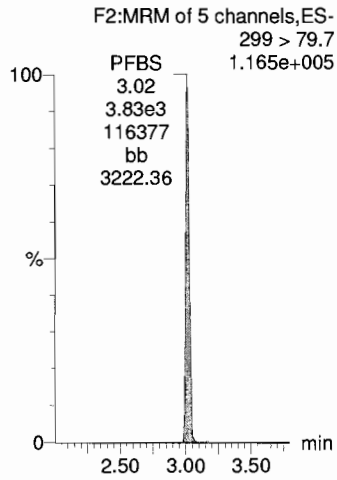
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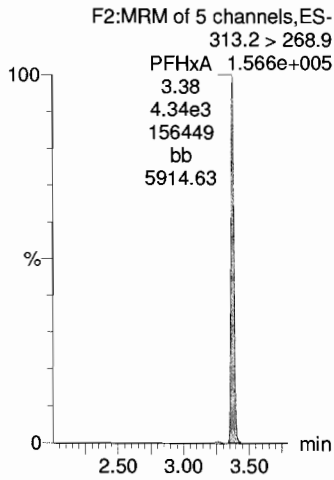
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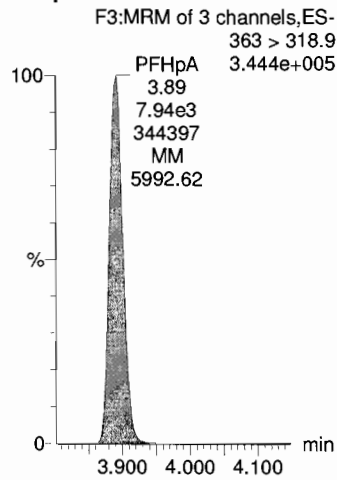
PFBS



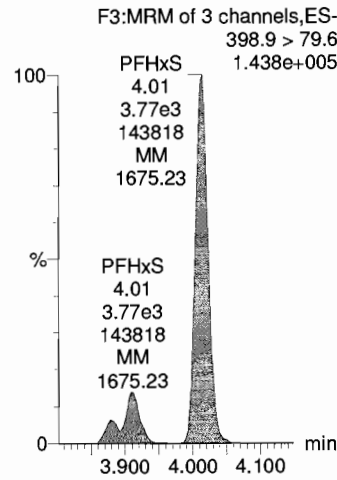
PFHxA



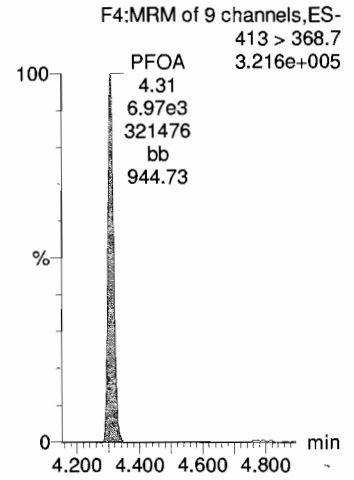
PFHpA



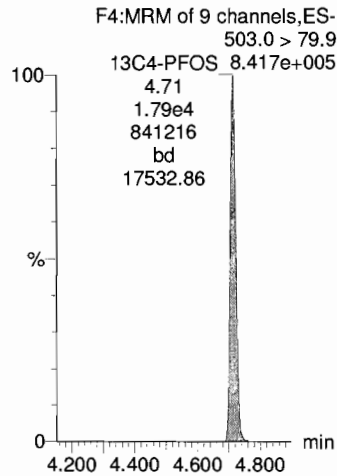
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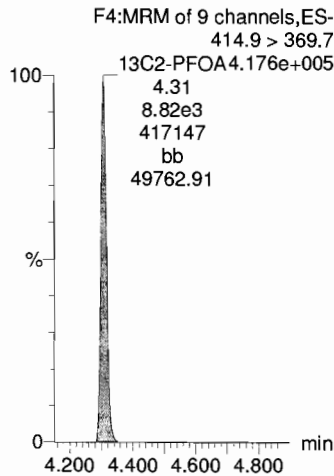
PFOA



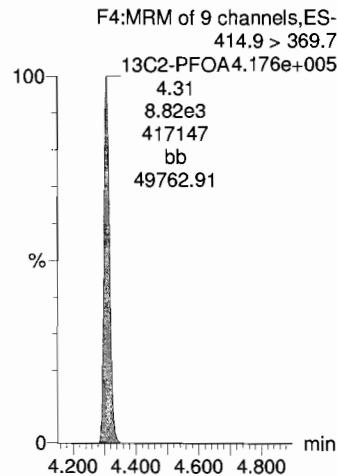
13C4-PFOS



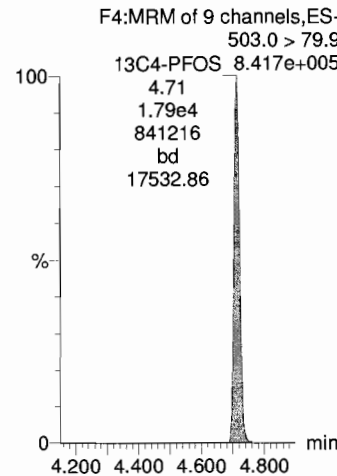
13C2-PFOA



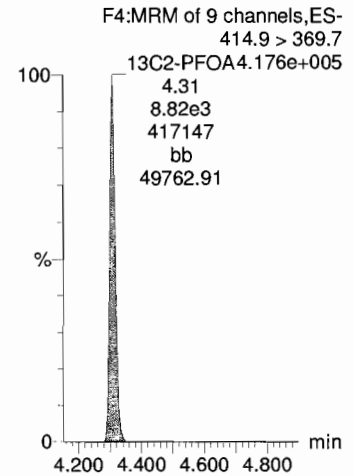
13C2-PFOA



13C4-PFOS



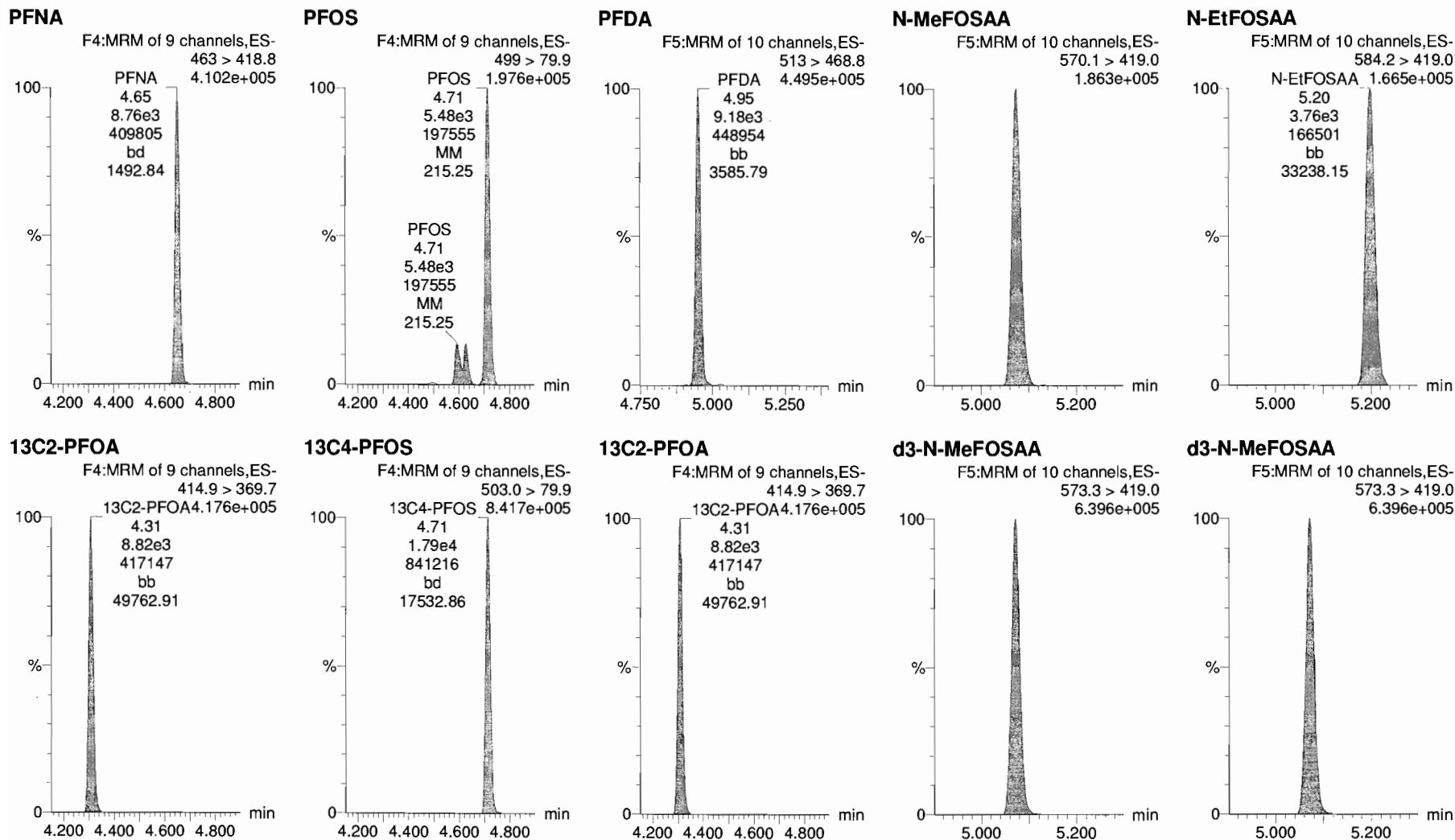
13C2-PFOA



Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time
Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

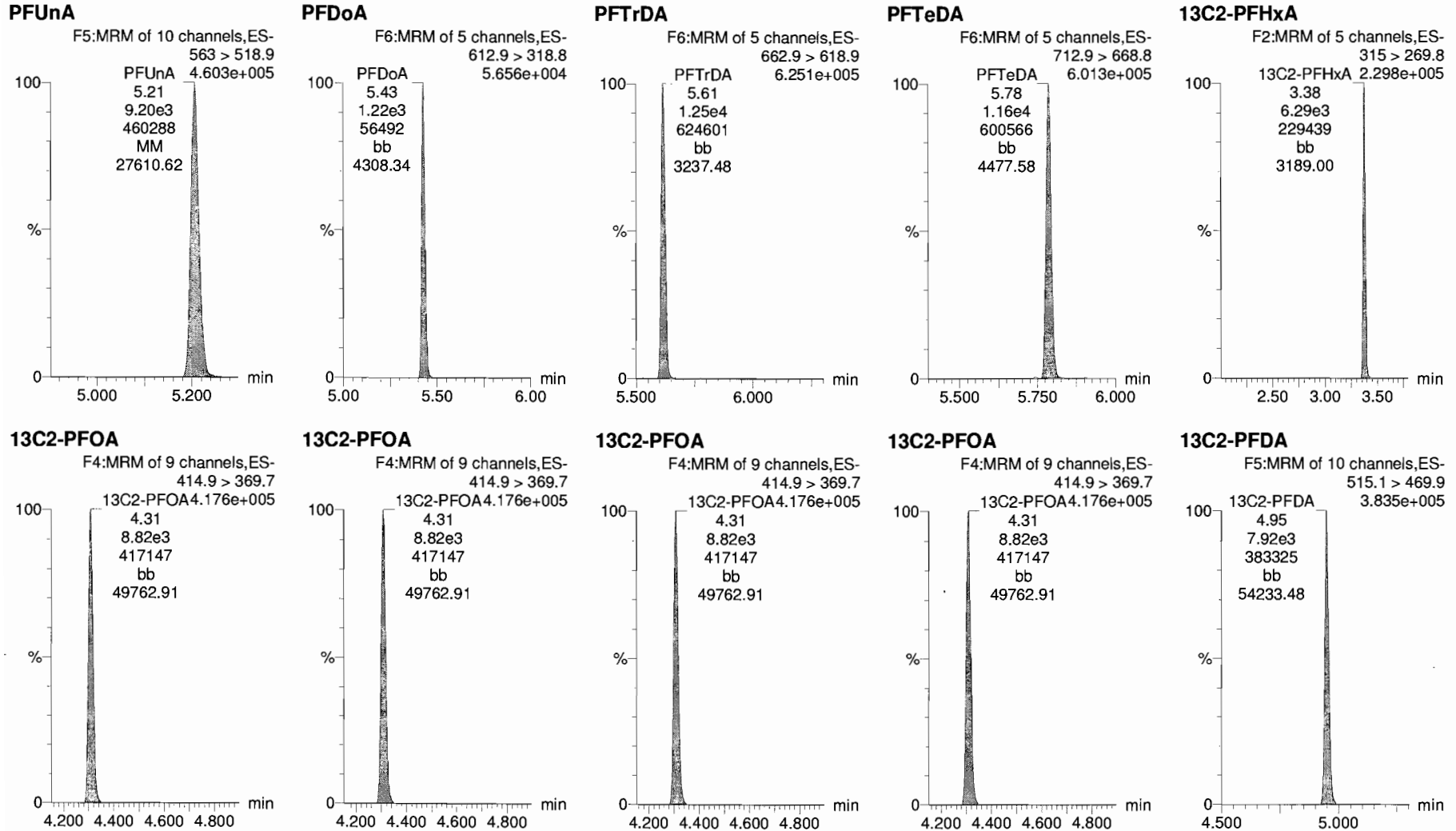
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Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time
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Name: 180223G2_6, Date: 23-Feb-2018, Time: 14:19:35, ID: ST180223G2-5 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304



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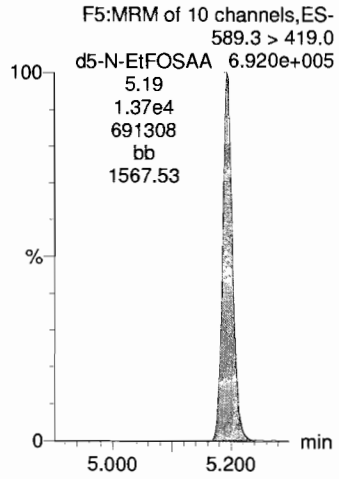
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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_6, Date: 23-Feb-2018, Time: 14:19:35, ID: ST180223G2-5 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304

d5-N-EtFOSAA

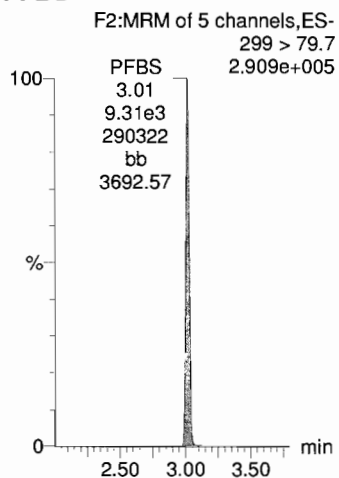


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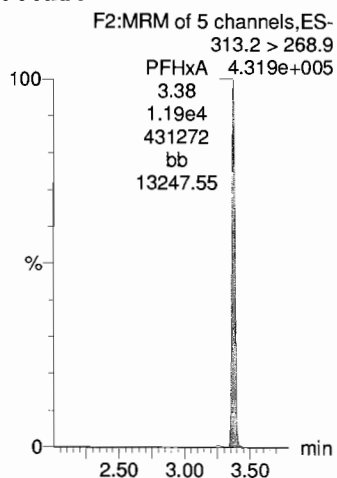
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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_7, Date: 23-Feb-2018, Time: 14:32:01, ID: ST180223G2-6 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

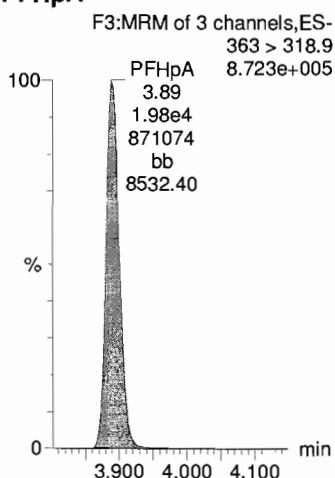
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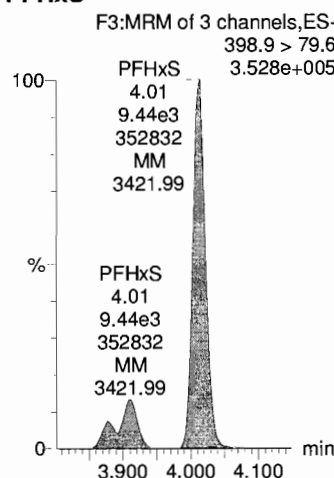
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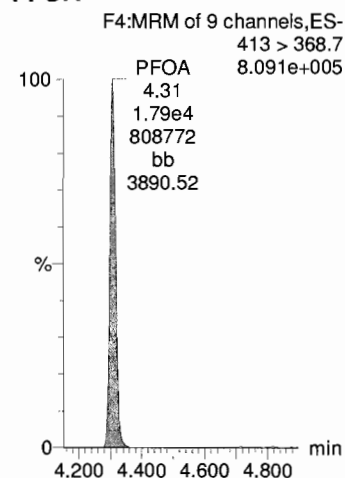
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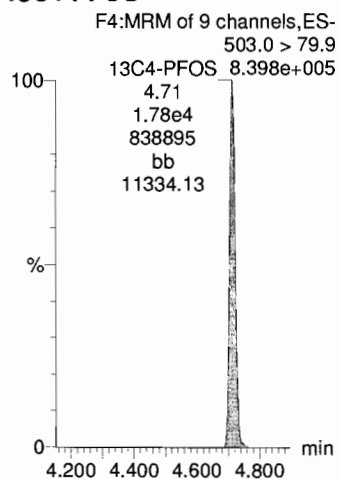
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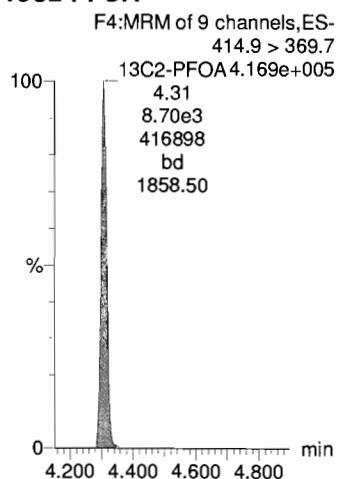
PFOA



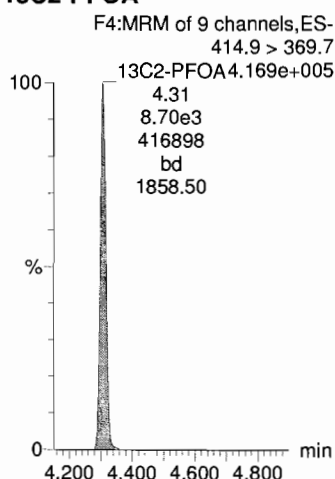
13C4-PFOS



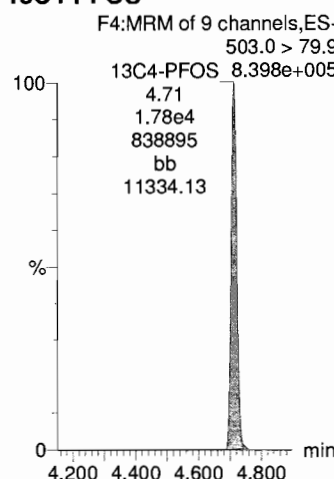
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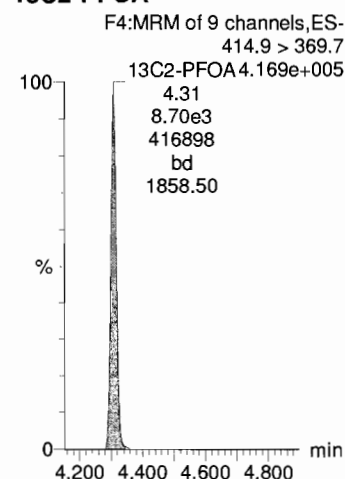
13C2-PFOA



13C4-PFOS



13C2-PFOA

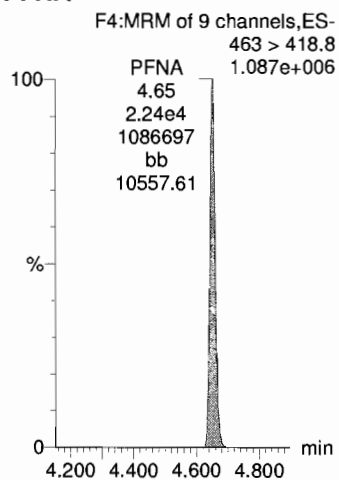


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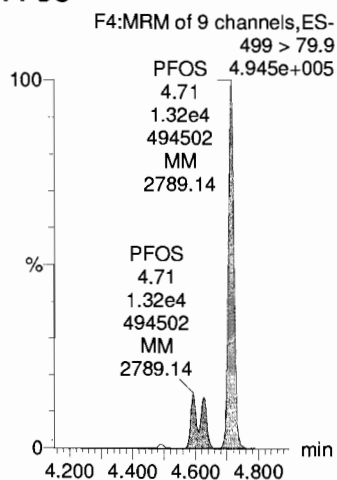
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Name: 180223G2_7, Date: 23-Feb-2018, Time: 14:32:01, ID: ST180223G2-6 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

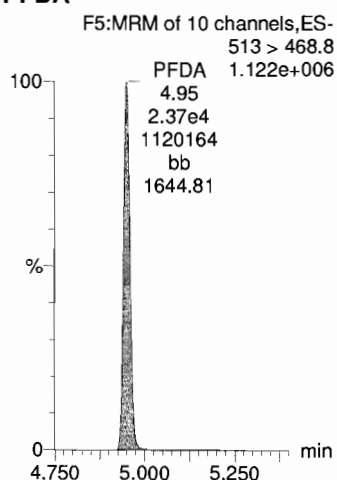
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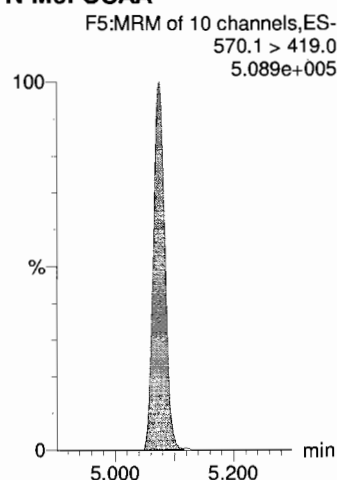
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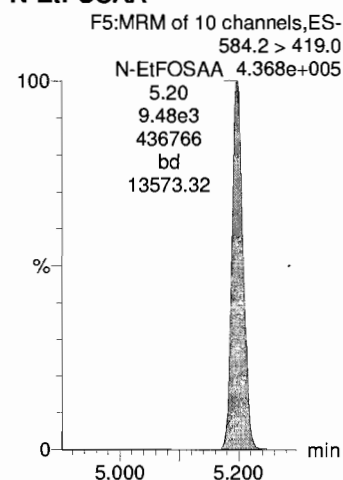
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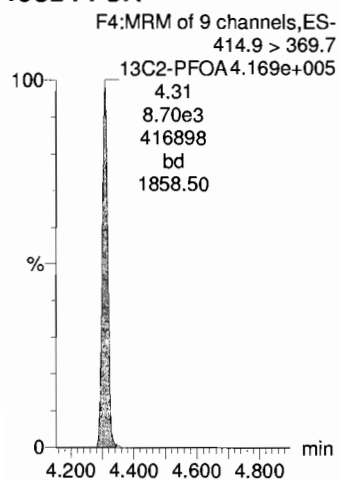
N-MeFOSAA



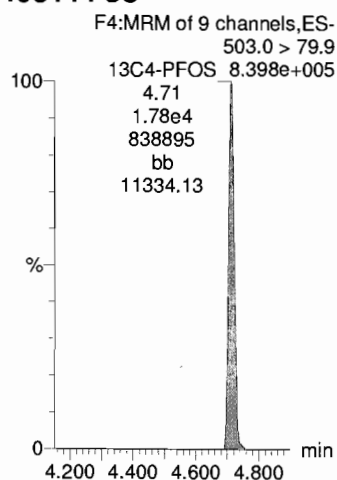
N-EtFOSAA



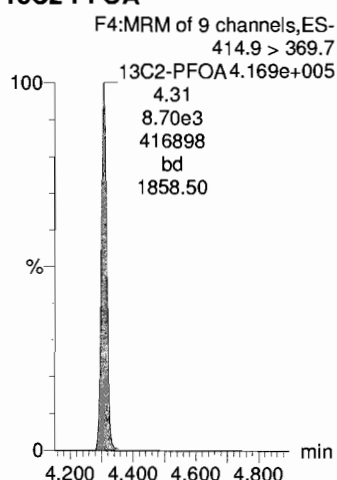
13C2-PFOA



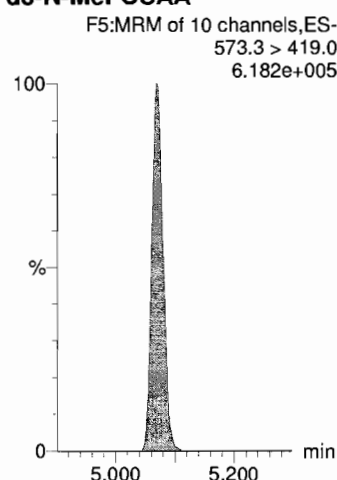
13C4-PFOS



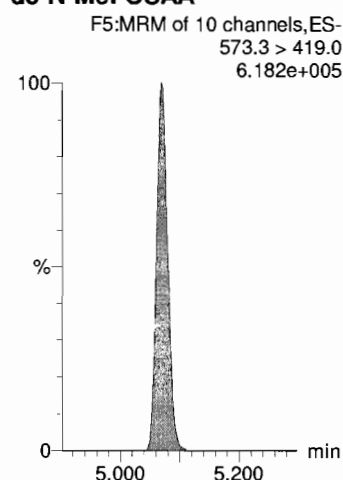
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA

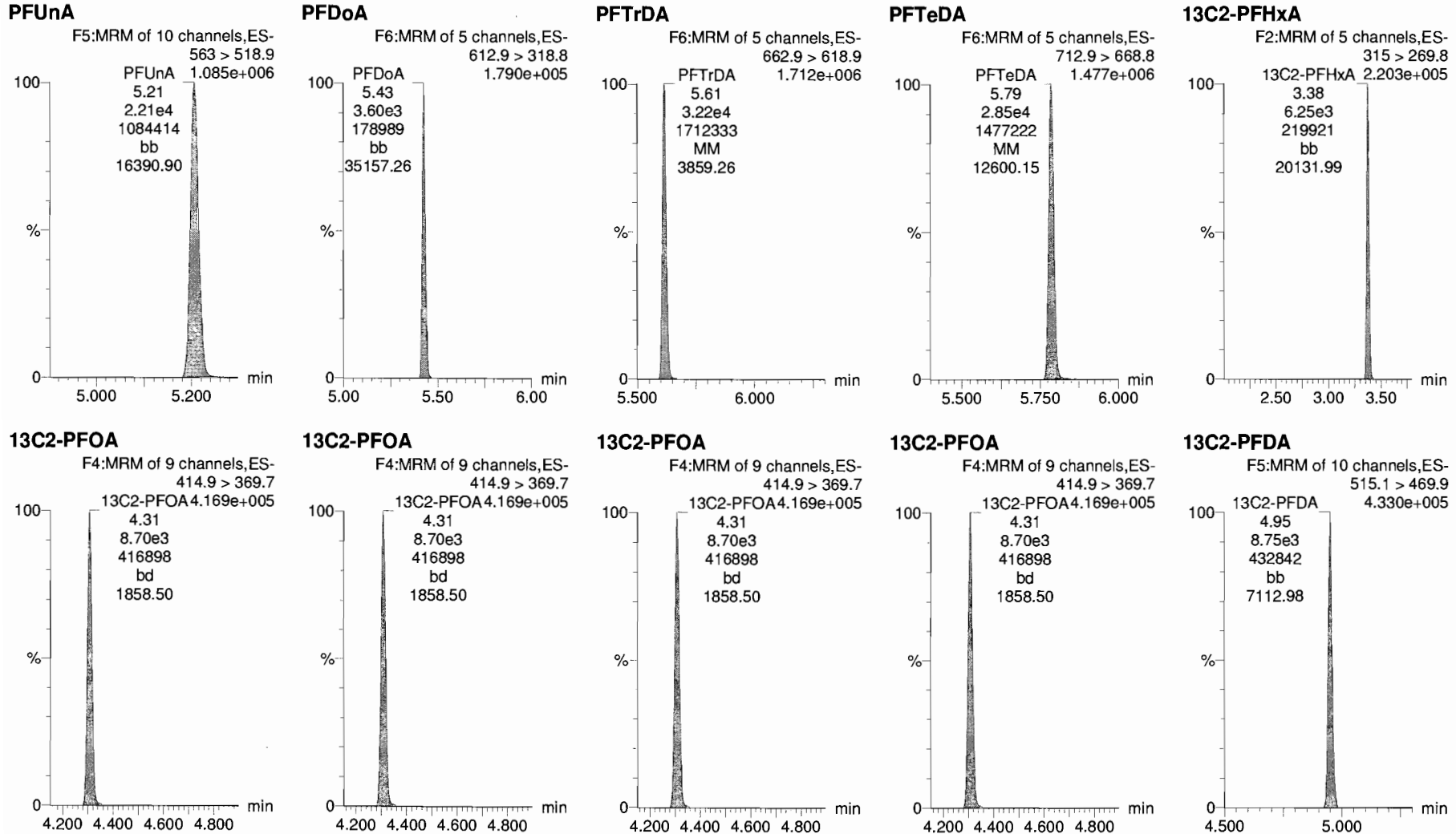


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Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_7, Date: 23-Feb-2018, Time: 14:32:01, ID: ST180223G2-6 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305



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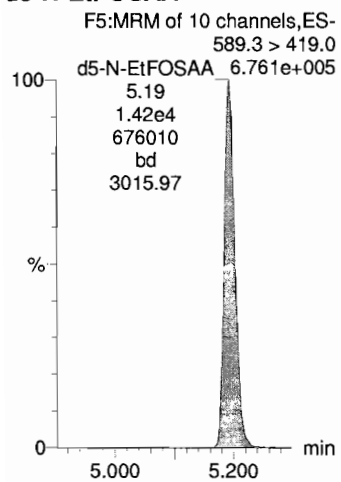
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Name: 180223G2_7, Date: 23-Feb-2018, Time: 14:32:01, ID: ST180223G2-6 PFC CS2 537 18B2305, Description: PFC CS2 537 18B2305

d5-N-EtFOSAA



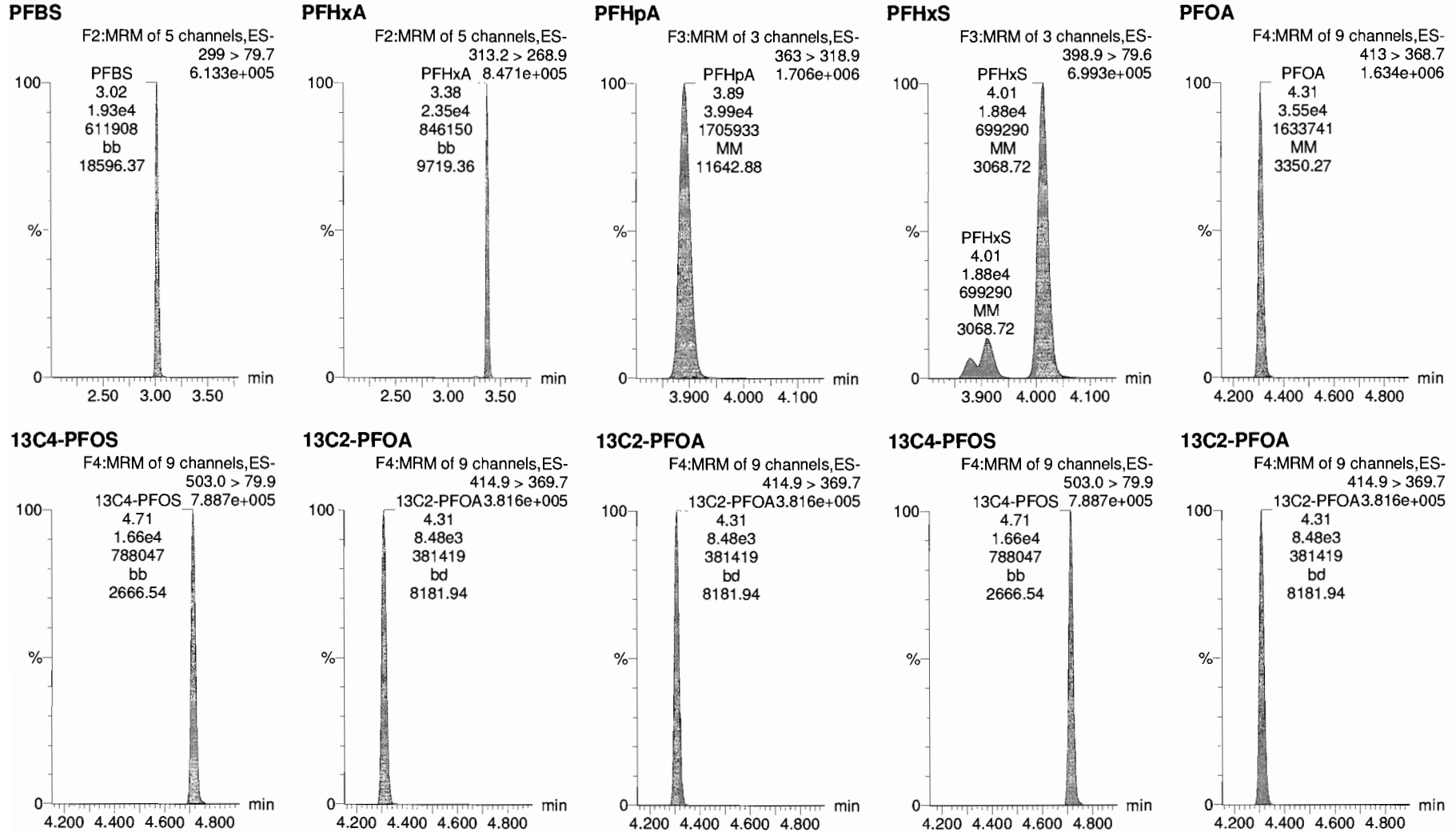
MJT 2/23/2018

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_8, Date: 23-Feb-2018, Time: 14:44:25, ID: ST180223G2-7 PFC CS3 537 18B2306, Description: PFC CS3 537 18B2306



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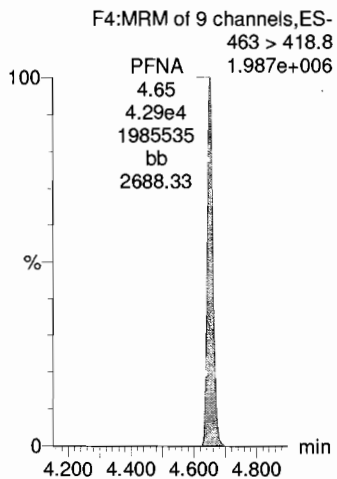
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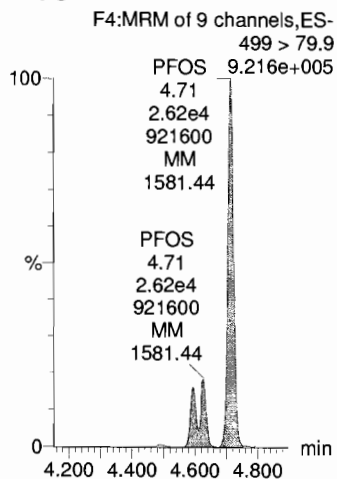
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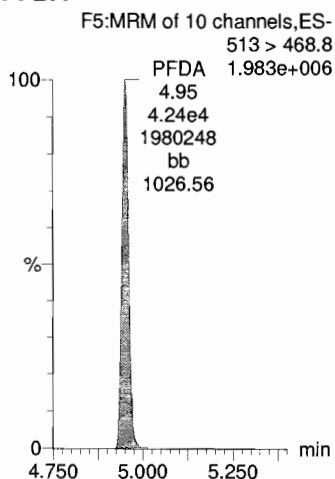
PFNA



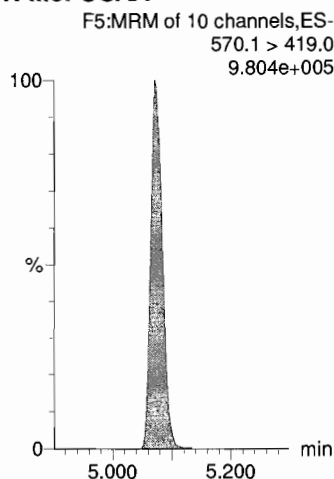
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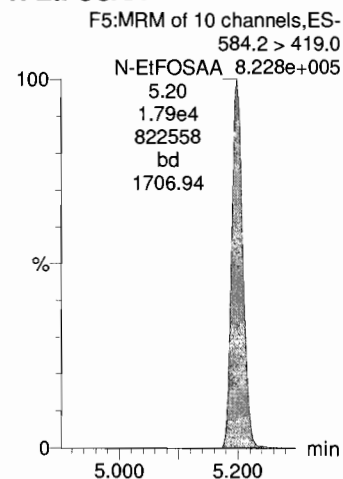
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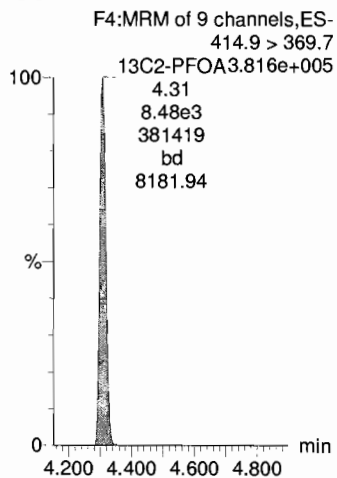
N-MeFOSAA



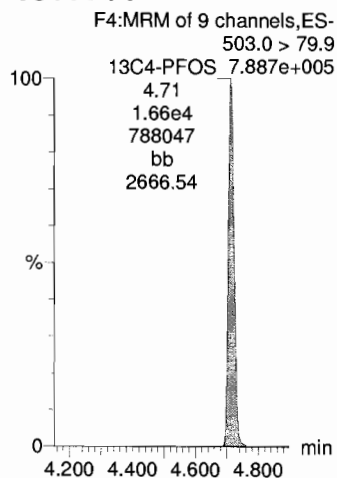
N-EtFOSAA



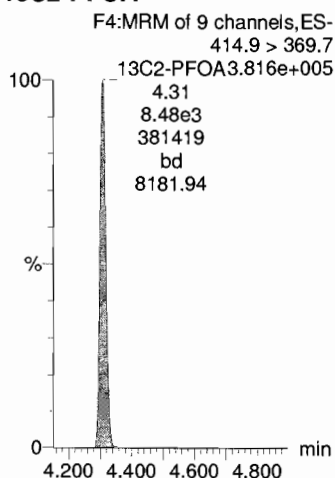
13C2-PFOA



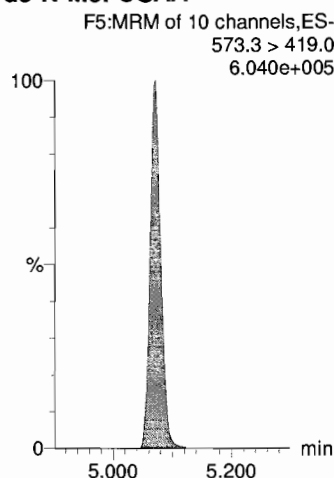
13C4-PFOS



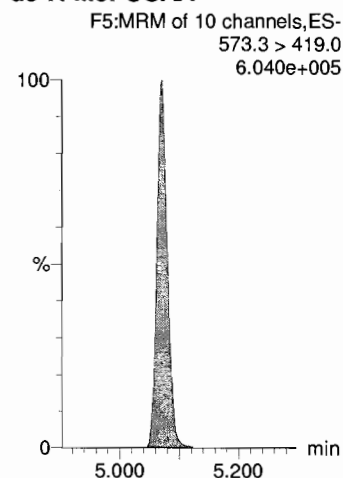
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA

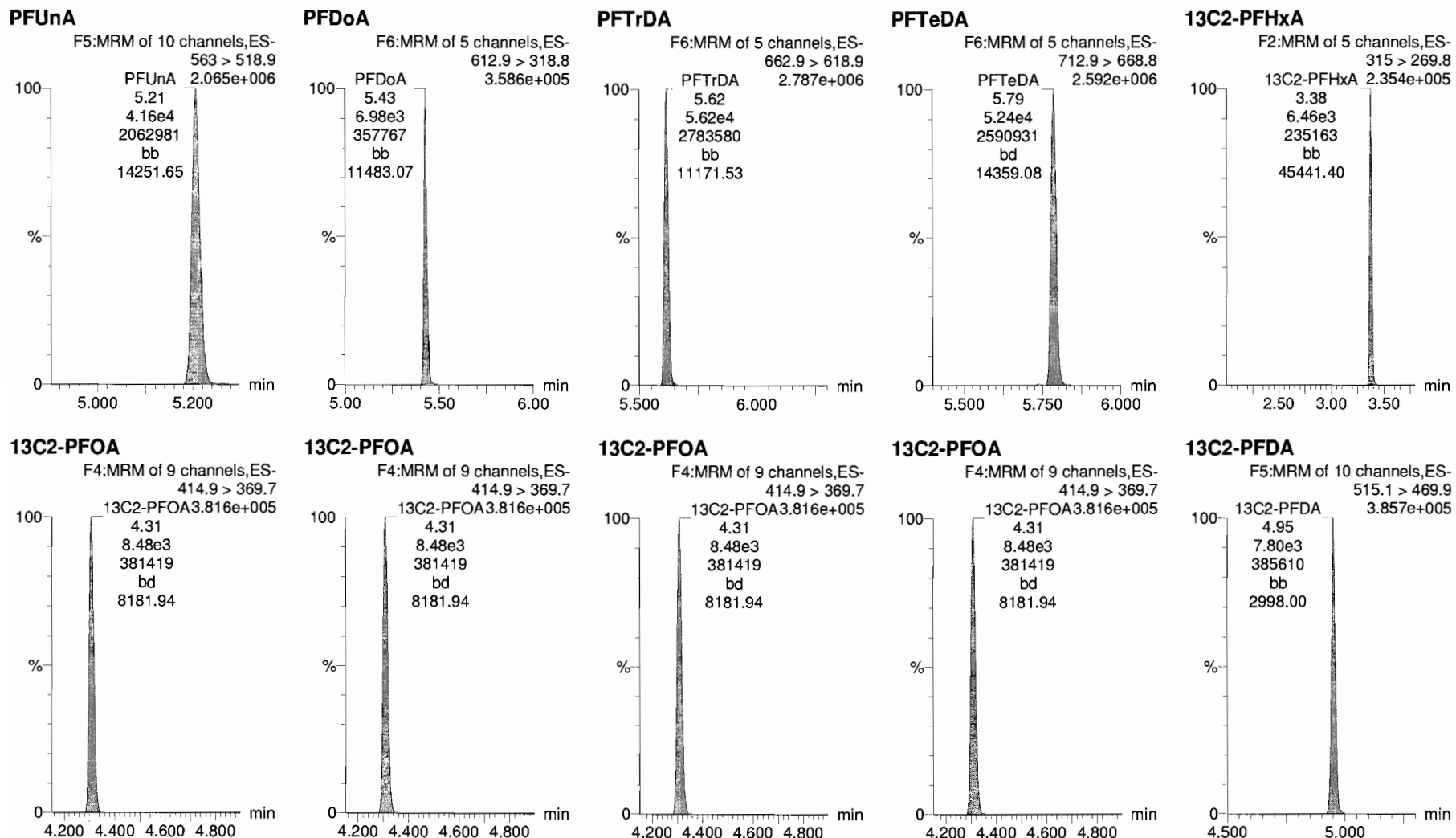


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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_8, Date: 23-Feb-2018, Time: 14:44:25, ID: ST180223G2-7 PFC CS3 537 18B2306, Description: PFC CS3 537 18B2306



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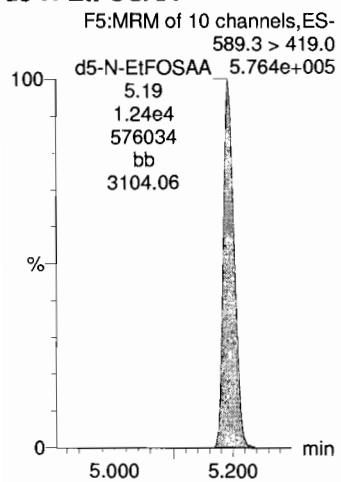
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Name: 180223G2_8, Date: 23-Feb-2018, Time: 14:44:25, ID: ST180223G2-7 PFC CS3 537 18B2306, Description: PFC CS3 537 18B2306

d5-N-EtFOSAA

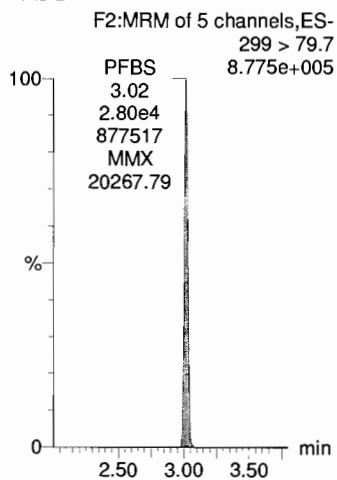


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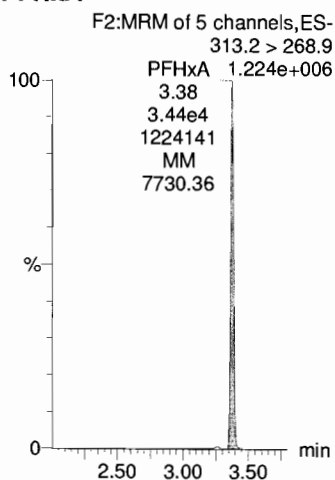
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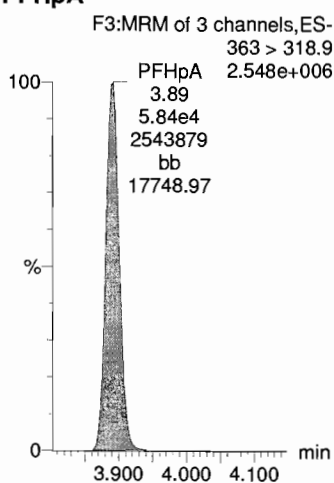
PFBS



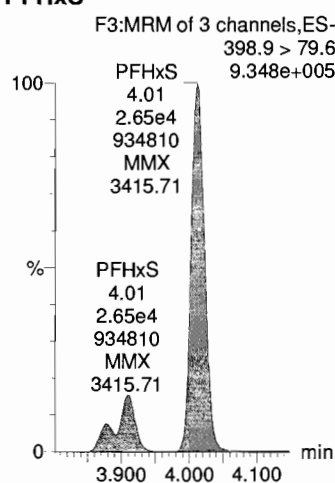
PFHxA



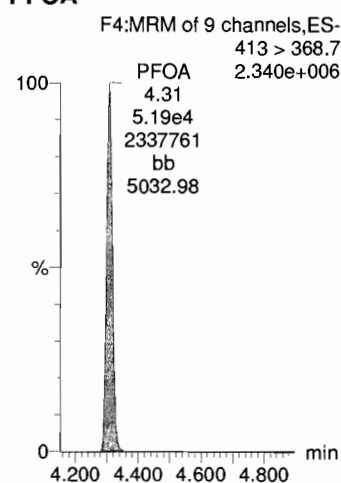
PFHpA



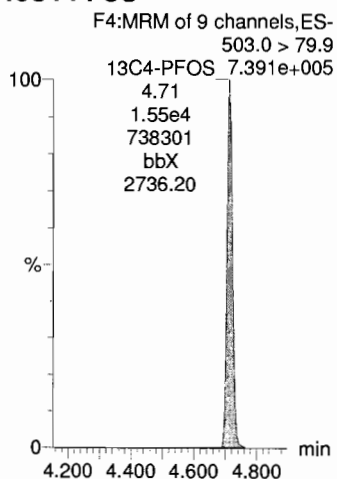
PFHxS



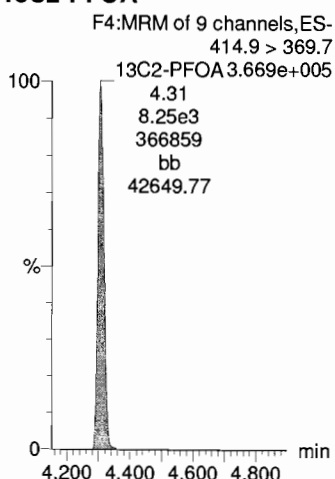
PFOA



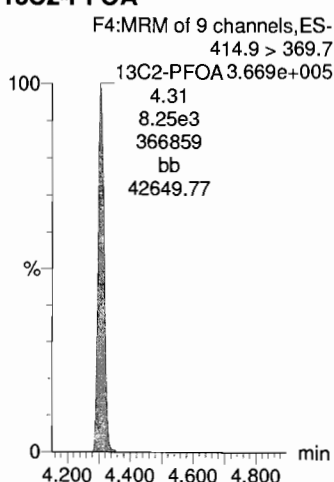
13C4-PFOS



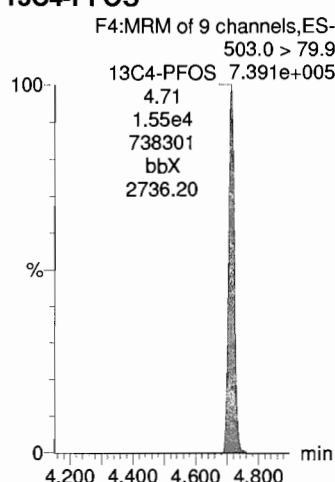
13C2-PFOA



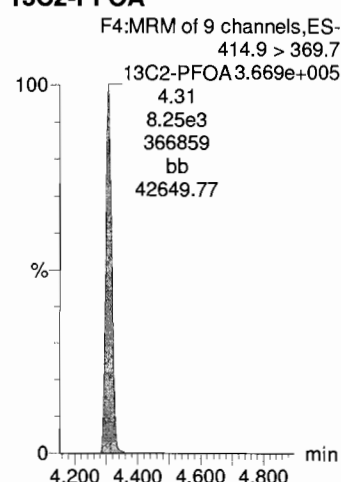
13C2-PFOA



13C4-PFOS



13C2-PFOA

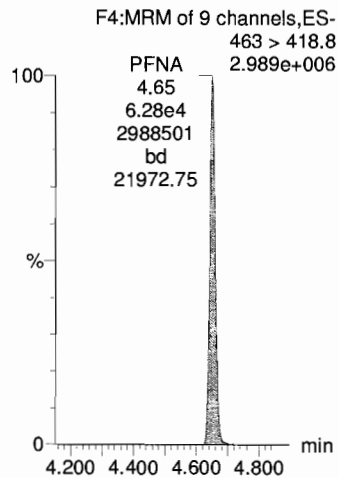


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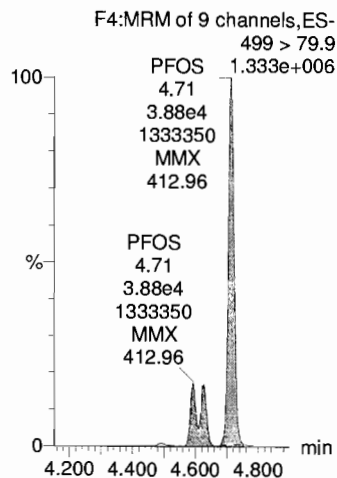
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Name: 180223G2_9, Date: 23-Feb-2018, Time: 14:56:52, ID: ST180223G2-8 PFC CS4 537 18B2307, Description: PFC CS4 537 18B2307

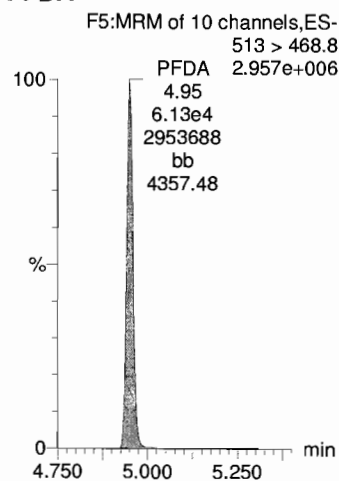
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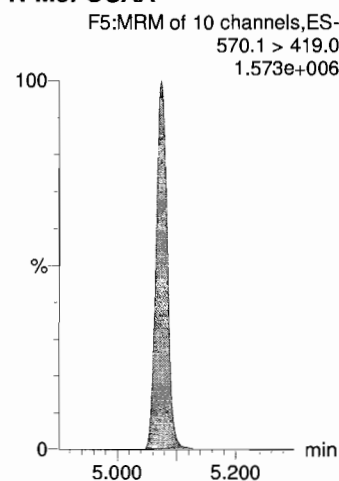
PFOS



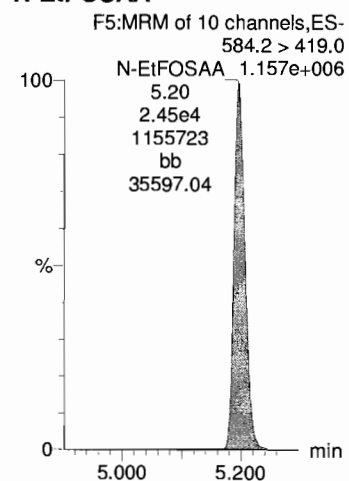
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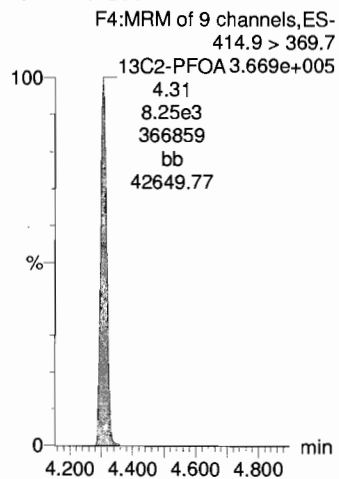
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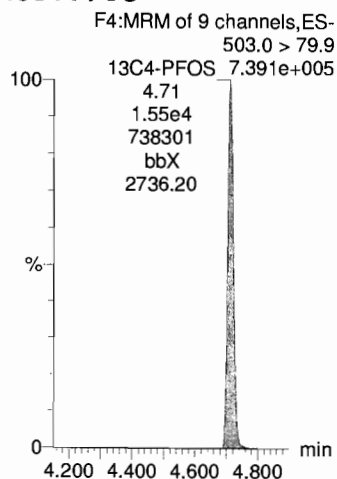
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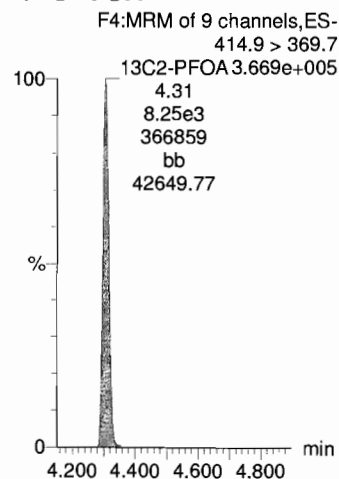
13C2-PFOA



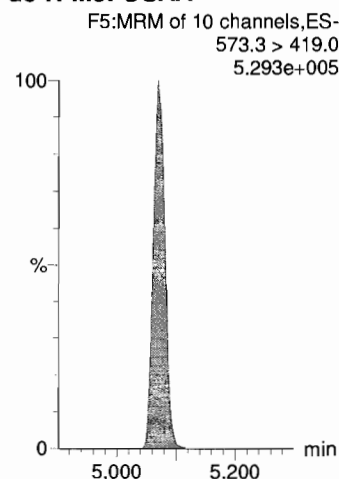
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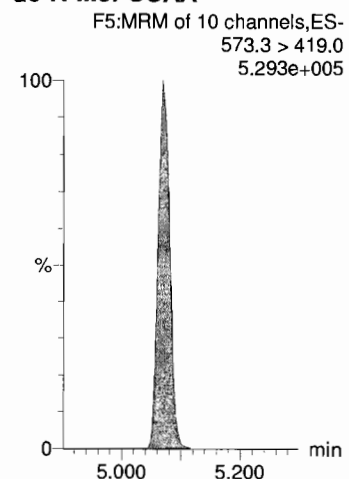
13C2-PFOA



d3-N-MeFOSAA



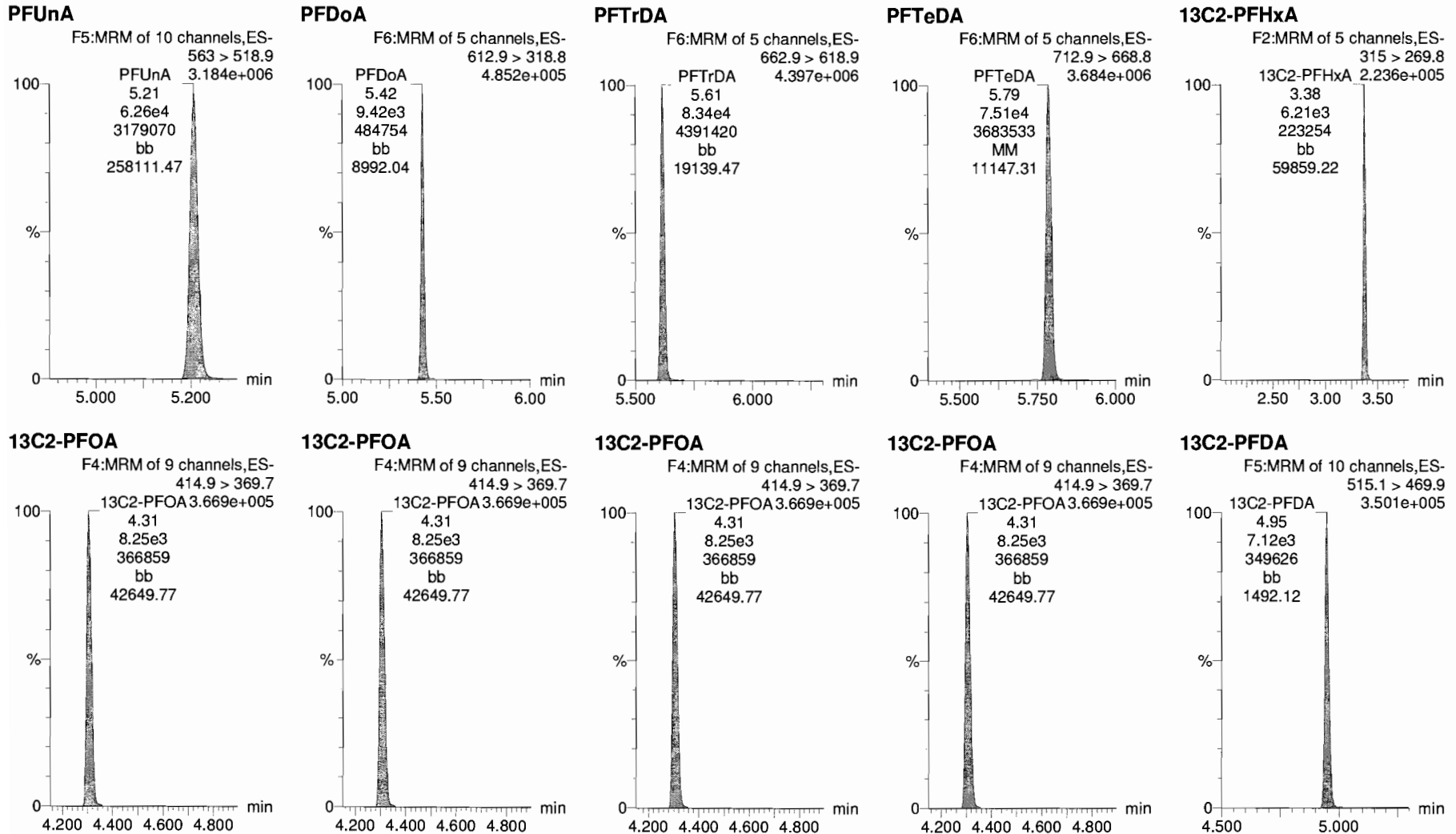
d3-N-MeFOSAA



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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_9, Date: 23-Feb-2018, Time: 14:56:52, ID: ST180223G2-8 PFC CS4 537 18B2307, Description: PFC CS4 537 18B2307



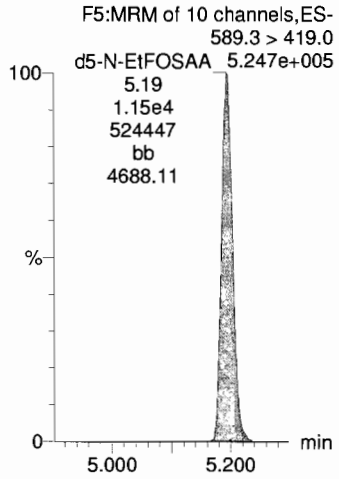
Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_9, Date: 23-Feb-2018, Time: 14:56:52, ID: ST180223G2-8 PFC CS4 537 18B2307, Description: PFC CS4 537 18B2307

d5-N-EtFOSAA

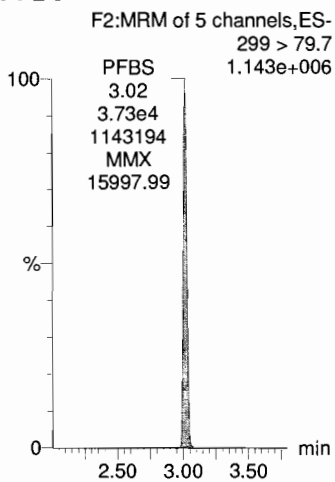


Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

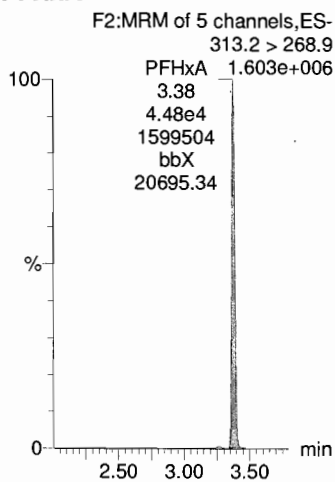
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Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_10, Date: 23-Feb-2018, Time: 15:09:16, ID: ST180223G2-9 PFC CS5 537 18B2308, Description: PFC CS5 537 18B2308

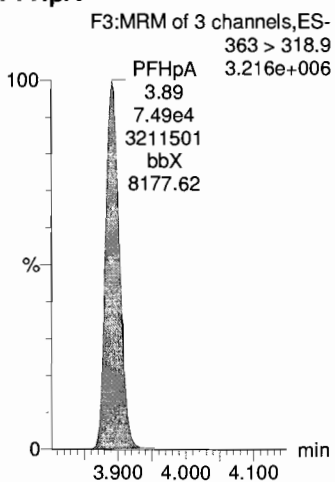
PFBS



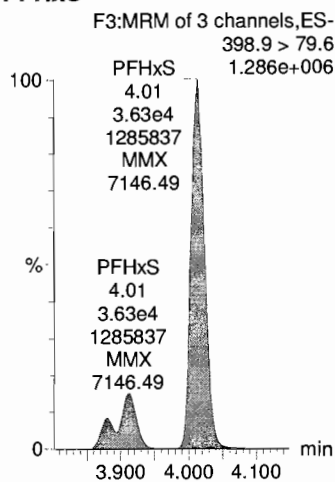
PFHxA



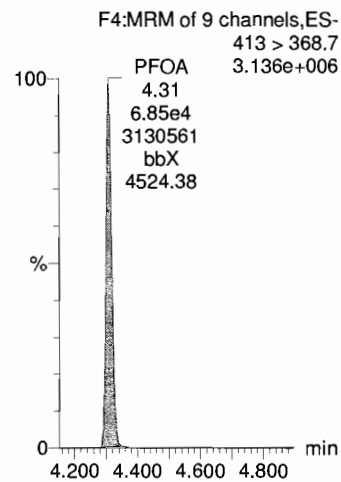
PFHpA



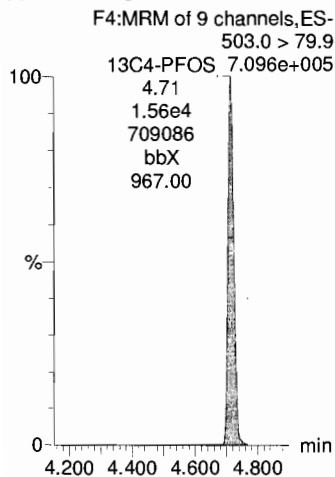
PFHxS



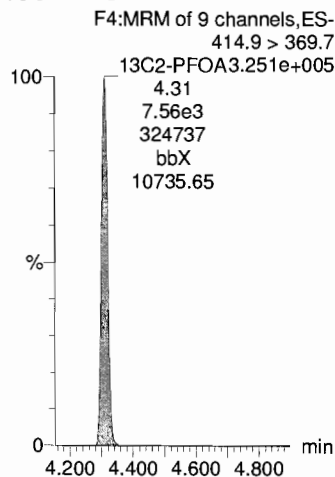
PFOA



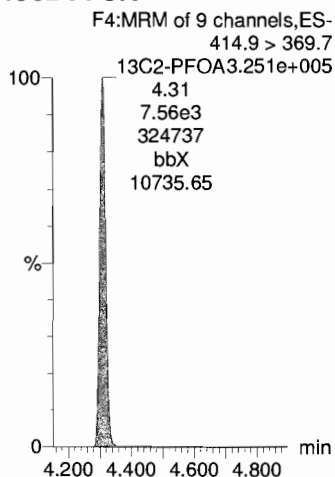
13C4-PFOS



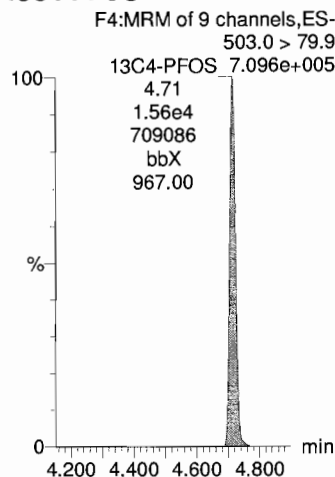
13C2-PFOA



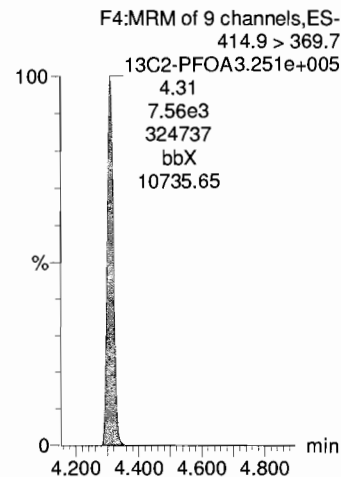
13C2-PFOA



13C4-PFOS



13C2-PFOA

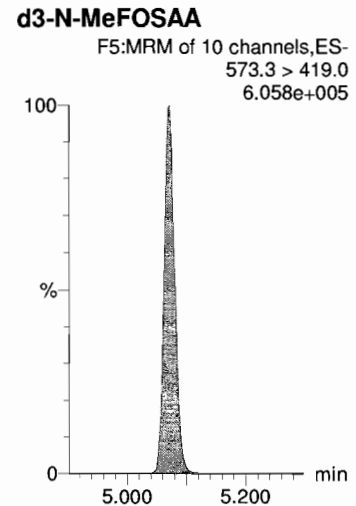
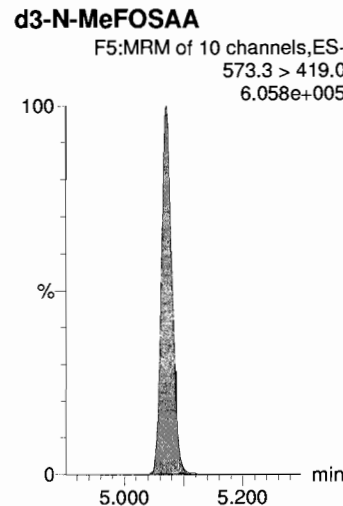
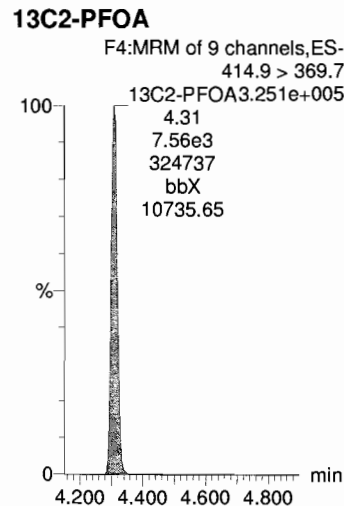
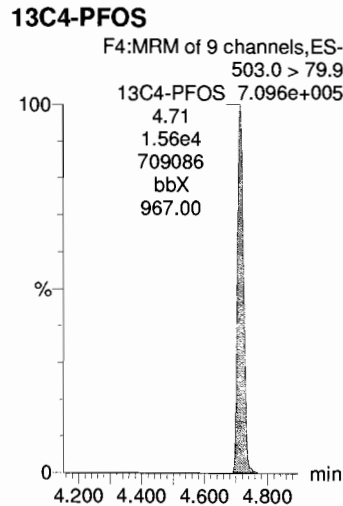
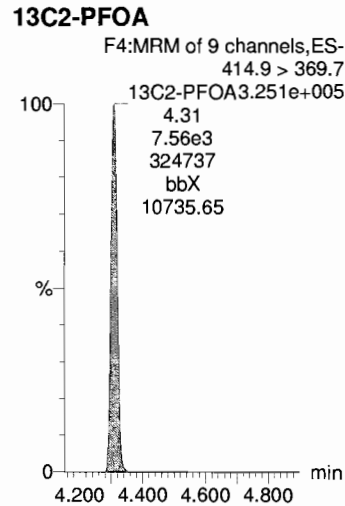
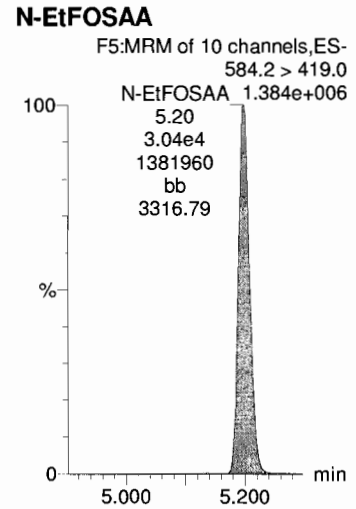
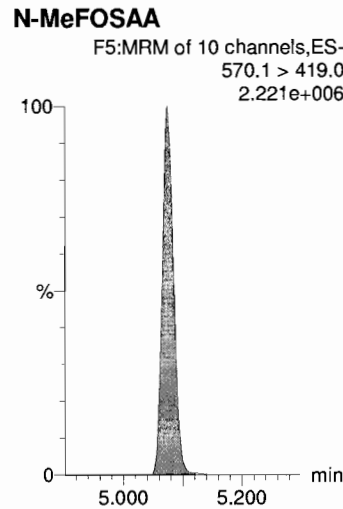
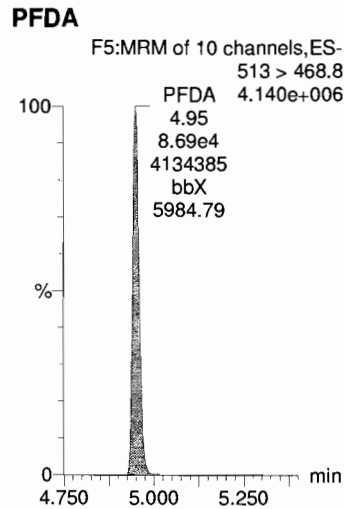
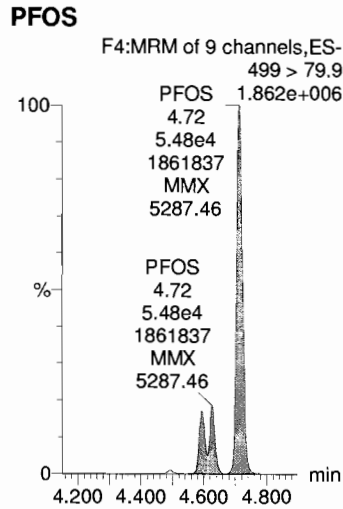
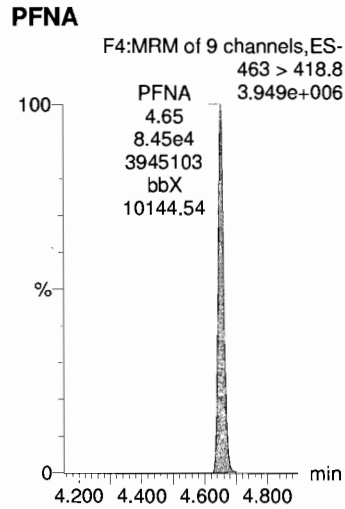


Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_10, Date: 23-Feb-2018, Time: 15:09:16, ID: ST180223G2-9 PFC CS5 537 18B2308, Description: PFC CS5 537 18B2308

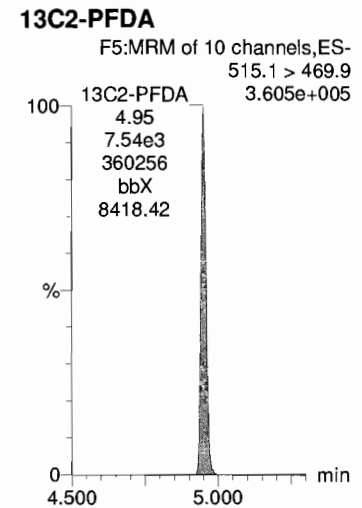
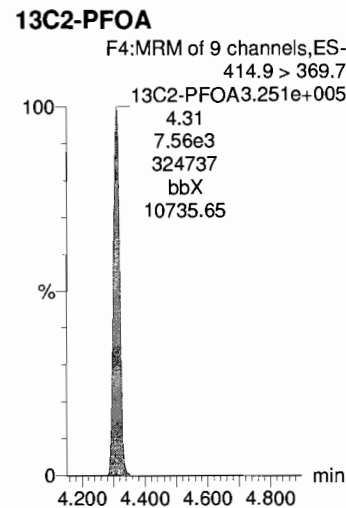
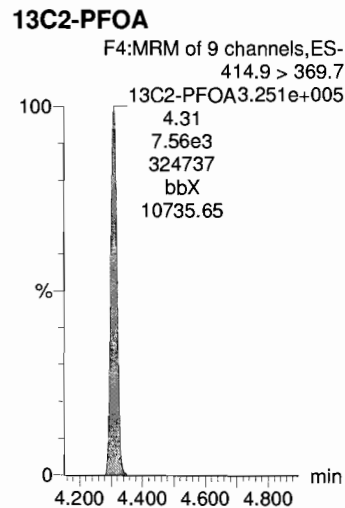
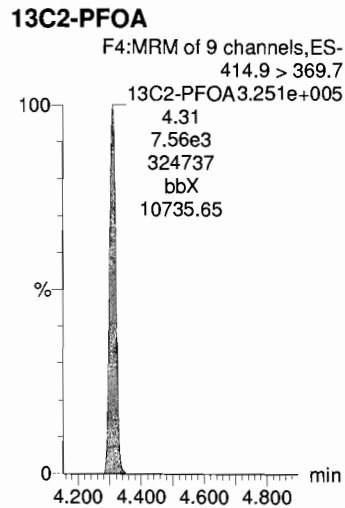
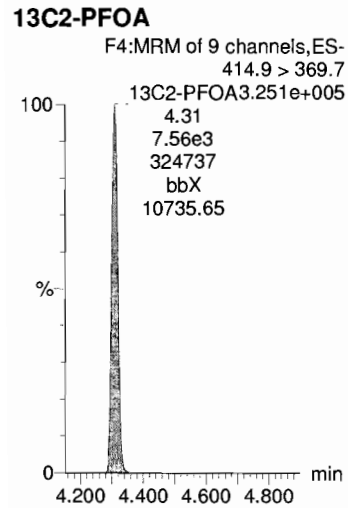
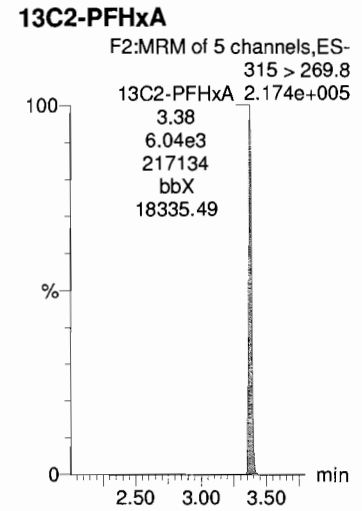
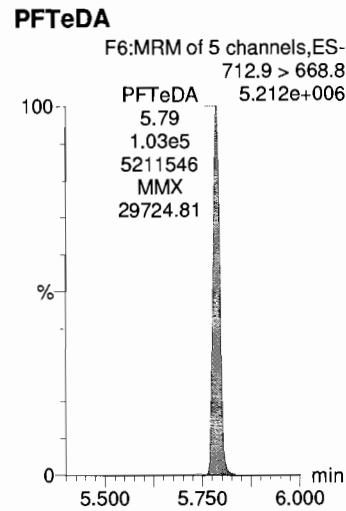
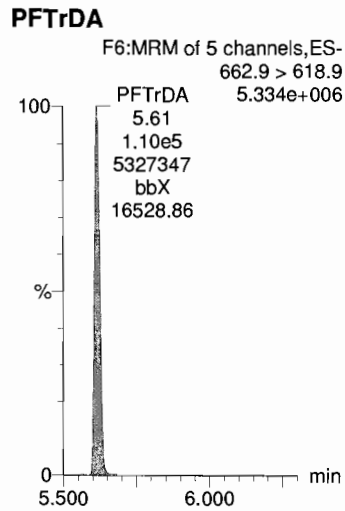
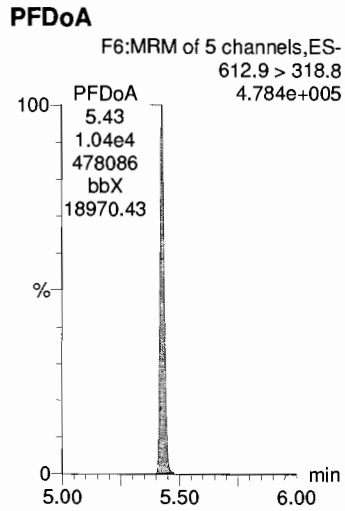
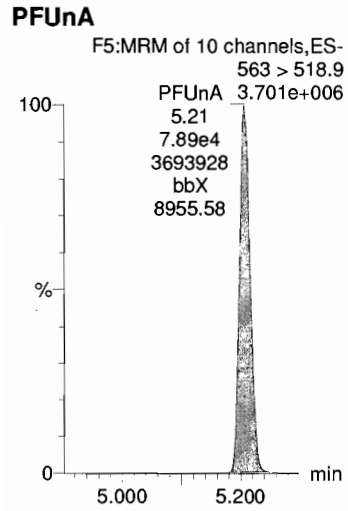


Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-CRV.qld

Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_10, Date: 23-Feb-2018, Time: 15:09:16, ID: ST180223G2-9 PFC CS5 537 18B2308, Description: PFC CS5 537 18B2308



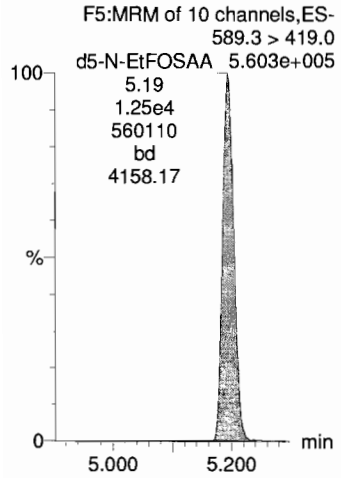
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Last Altered: Friday, February 23, 2018 17:19:15 Pacific Standard Time

Printed: Friday, February 23, 2018 17:24:39 Pacific Standard Time

Name: 180223G2_10, Date: 23-Feb-2018, Time: 15:09:16, ID: ST180223G2-9 PFC CS5 537 18B2308, Description: PFC CS5 537 18B2308

d5-N-EtFOSAA



Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-12.qld

Last Altered: Friday, February 23, 2018 17:29:48 Pacific Standard Time
Printed: Friday, February 23, 2018 17:30:15 Pacific Standard Time

JPA
02/24/2018

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 15:59:15
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180223G2_12, Date: 23-Feb-2018, Time: 15:34:05, ID: ICV180223G2-1 PFC ICV 537 18B2309, Description: PFC ICV 537 18B2309

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.38e3	1.84e4	1.0000		3.02	3.02	6.82	9.32	93.2
2	2 PFHxA	313.2 > 268.9	5.03e3	8.33e3	1.0000		3.36	3.38	6.03	10.9	109.0
3	3 PFHpA	363 > 318.9	8.62e3	8.33e3	1.0000		3.88	3.89	10.3	11.0	110.1
4	4 PFHxS	398.9 > 79.6	4.37e3	1.84e4	1.0000		4.00	4.01	6.81	9.73	97.3
5	5 PFOA	413 > 368.7	7.32e3	8.33e3	1.0000		4.31	4.31	8.78	10.5	104.8
6	6 PFNA	463 > 418.8	1.03e4	8.33e3	1.0000		4.65	4.65	12.4	12.2	122.2
7	7 PFOS	499 > 79.9	6.52e3	1.84e4	1.0000		4.71	4.71	10.2	10.6	105.7
8	8 PFDA	513 > 468.8	9.34e3	8.33e3	1.0000		4.88	4.95	11.2	10.2	102.5
9	9 N-MeFOSAA	570.1 > 419.0	4.31e3	1.17e4	1.0000		5.01	5.08	14.7	11.0	109.9
10	10 N-EtFOSAA	584.2 > 419.0	3.95e3	1.17e4	1.0000		5.19	5.20	13.5	12.7	127.3
11	11 PFUnA	563 > 518.9	1.01e4	8.33e3	1.0000		5.14	5.21	12.2	12.1	121.2
12	12 PFDoA	612.9 > 318.8	1.39e3	8.33e3	1.0000		5.34	5.43	1.67	10.5	105.2
13	13 PFTrDA	662.9 > 618.9	1.34e4	8.33e3	1.0000		5.57	5.61	16.0	11.7	116.7
14	14 PFTeDA	712.9 > 668.8	1.13e4	8.33e3	1.0000		5.74	5.78	13.5	10.8	108.4
15	15 13C2-PFHxA	315 > 269.8	6.61e3	8.33e3	1.0000	0.731	3.46	3.38	7.94	10.9	108.5
16	16 13C2-PFDA	515.1 > 469.9	7.73e3	8.33e3	1.0000	0.910	4.91	4.95	9.28	10.2	102.0
17	17 d5-N-EtFOSAA	589.3 > 419.0	1.26e4	1.17e4	1.0000	1.049	5.07	5.19	43.1	41.0	102.6
18	18 13C2-PFOA	414.9 > 369.7	8.33e3	8.33e3	1.0000	1.000	4.41	4.31	10.0	10.0	100.0
19	19 13C4-PFOS	503.0 > 79.9	1.84e4	1.84e4	1.0000	1.000	4.81	4.71	28.7	28.7	100.0
20	20 d3-N-MeFOSAA	573.3 > 419.0	1.17e4	1.17e4	1.0000	1.000	5.16	5.07	40.0	40.0	100.0

Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-12.qld

Last Altered: Friday, February 23, 2018 17:29:48 Pacific Standard Time

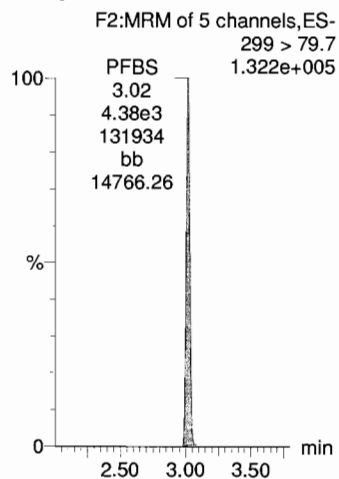
Printed: Friday, February 23, 2018 17:30:15 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_1223.mdb 23 Feb 2018 15:59:15

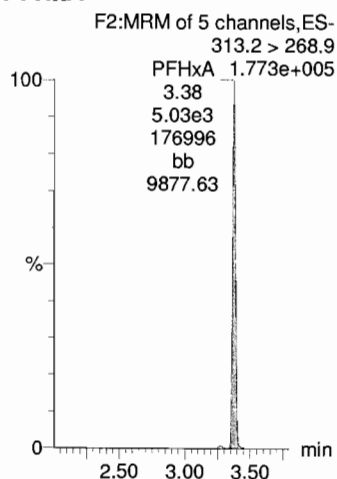
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_02-23-18_L14.cdb 23 Feb 2018 16:46:11

Name: 180223G2_12, Date: 23-Feb-2018, Time: 15:34:05, ID: ICV180223G2-1 PFC ICV 537 18B2309, Description: PFC ICV 537 18B2309

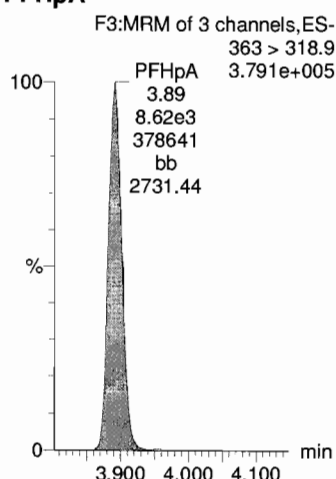
PFBS



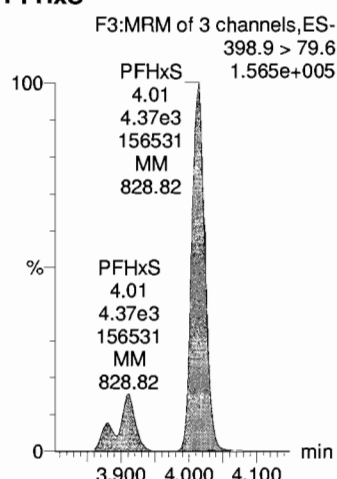
PFHxA



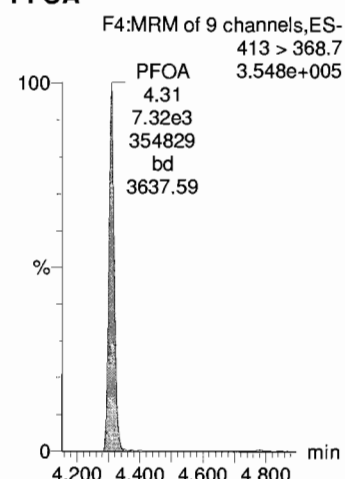
PFHpA



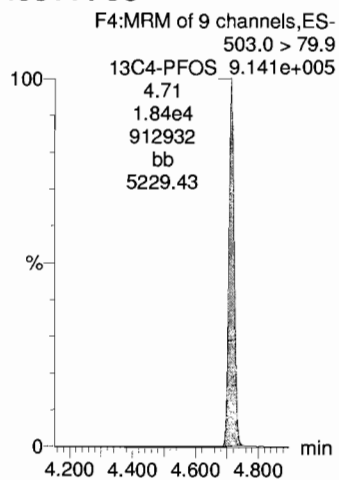
PFHxS



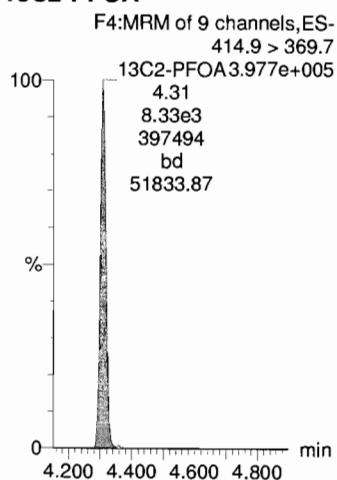
PFOA



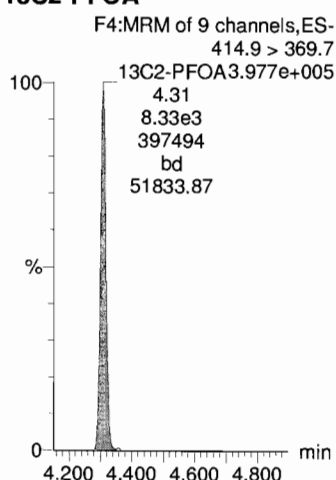
13C4-PFOS



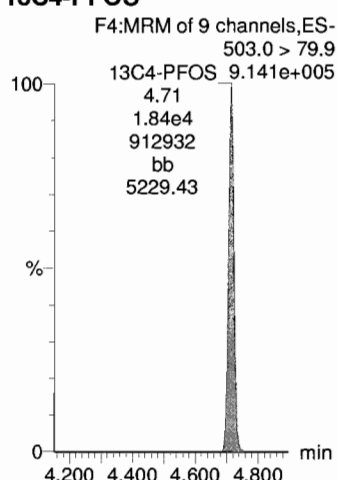
13C2-PFOA



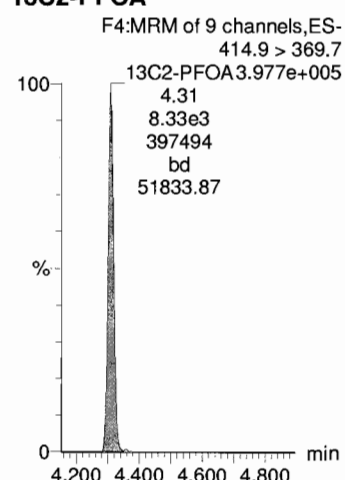
13C2-PFOA



13C4-PFOS



13C2-PFOA



MJT 2/23/2018

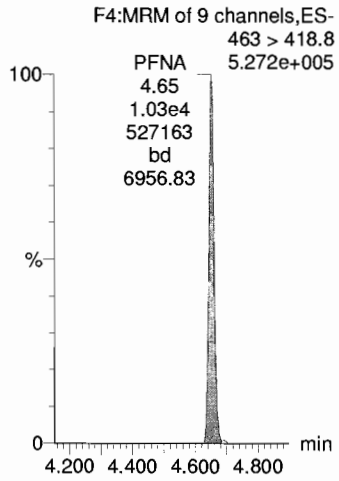
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Last Altered: Friday, February 23, 2018 17:29:48 Pacific Standard Time

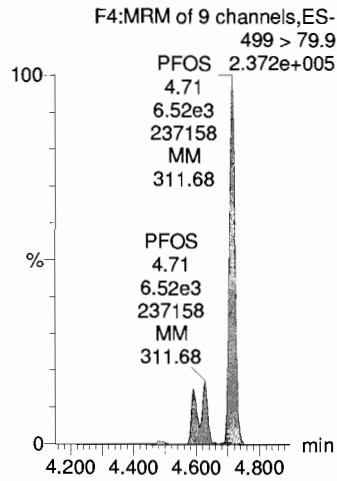
Printed: Friday, February 23, 2018 17:30:15 Pacific Standard Time

Name: 180223G2_12, Date: 23-Feb-2018, Time: 15:34:05, ID: ICV180223G2-1 PFC ICV 537 18B2309, Description: PFC ICV 537 18B2309

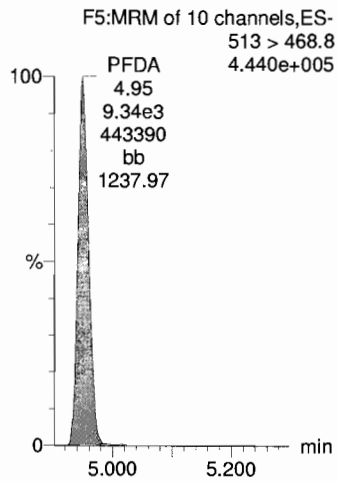
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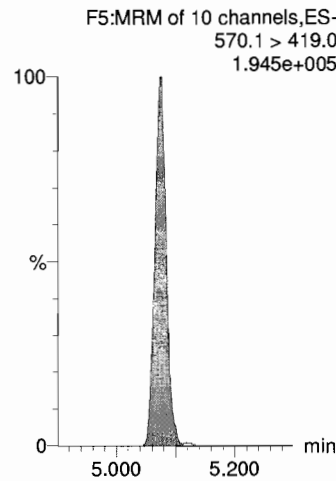
PFOS



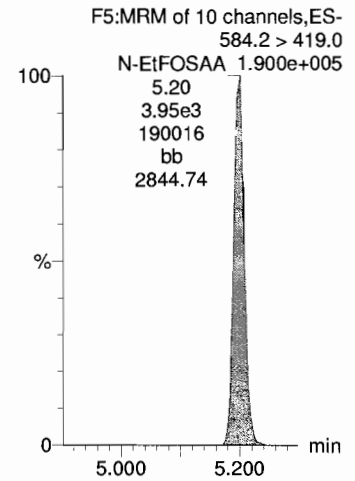
PFDA



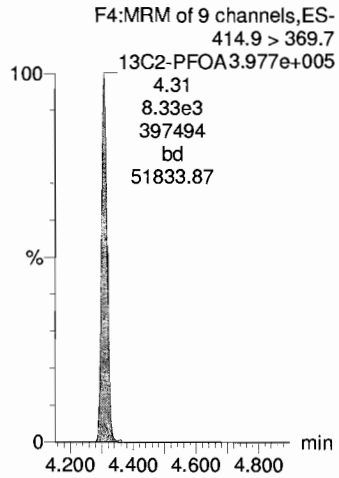
N-MeFOSAA



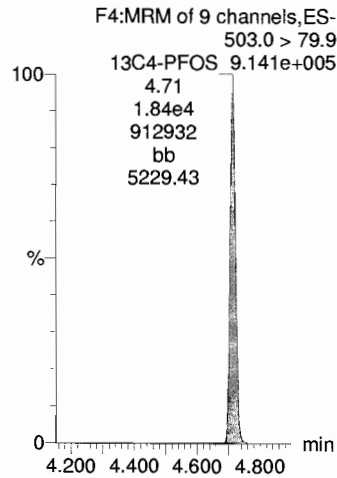
N-EtFOSAA



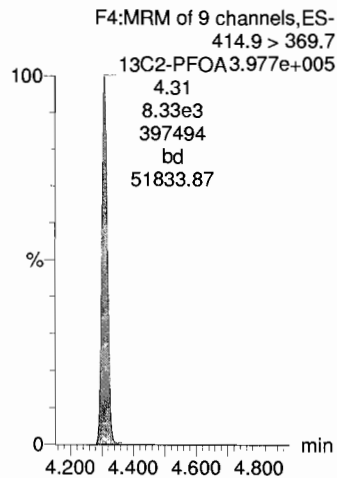
13C2-PFOA



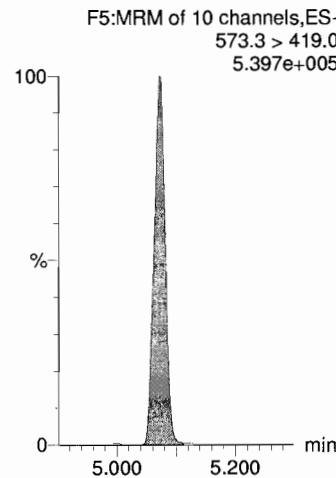
13C4-PFOS



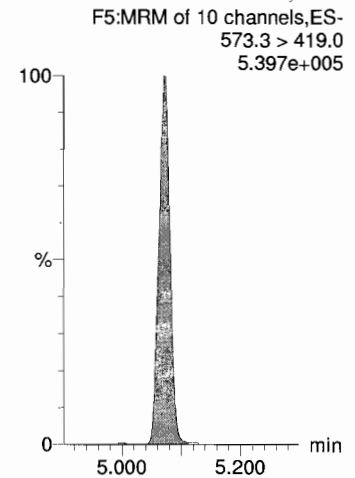
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA

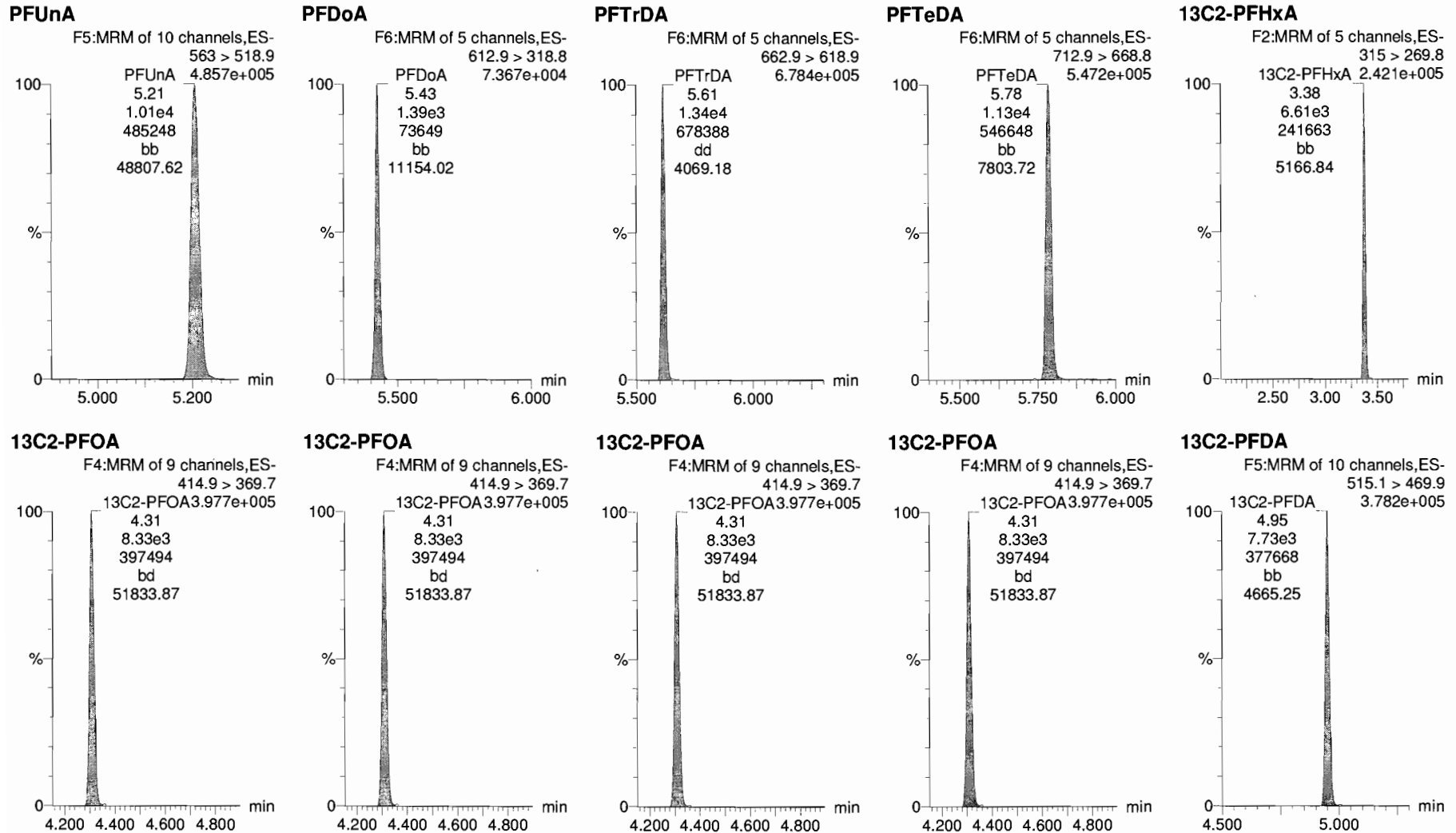


Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-12.qld

Last Altered: Friday, February 23, 2018 17:29:48 Pacific Standard Time

Printed: Friday, February 23, 2018 17:30:15 Pacific Standard Time

Name: 180223G2_12, Date: 23-Feb-2018, Time: 15:34:05, ID: ICV180223G2-1 PFC ICV 537 18B2309, Description: PFC ICV 537 18B2309

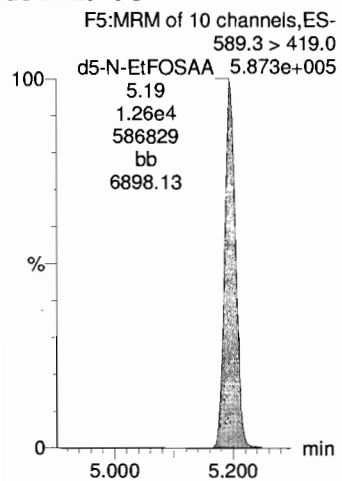


Dataset: X:\G1.PRO\Results\2018\180223G2\180223G2-12.qld

Last Altered: Friday, February 23, 2018 17:29:48 Pacific Standard Time
Printed: Friday, February 23, 2018 17:30:15 Pacific Standard Time

Name: 180223G2_12, Date: 23-Feb-2018, Time: 15:34:05, ID: ICV180223G2-1 PFC ICV 537 18B2309, Description: PFC ICV 537 18B2309

d5-N-EtFOSAA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
 Printed: Friday, March 09, 2018 11:08:14 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:23:45
 Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Handwritten:
 ✓ 3/9/18
 MJT
 3/9/18

Compound name: PFBS

Coefficient of Determination: R² = 0.998784
 Calibration curve: 0.715403 * x
 Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.443	2.96	233.146	19616.352	0.341	0.5	7.8	NO	0.999	NO	MMX
2	2 180308G4_3	Standard	0.885	2.96	443.104	18982.521	0.670	0.9	5.8	NO	0.999	NO	bb
3	3 180308G4_4	Standard	1.770	2.96	810.944	19149.248	1.215	1.7	-4.0	NO	0.999	NO	bb
4	4 180308G4_5	Standard	4.420	2.96	2075.500	16641.129	3.579	5.0	13.2	NO	0.999	NO	bb
5	5 180308G4_6	Standard	8.850	2.96	4044.766	17975.191	6.458	9.0	2.0	NO	0.999	NO	bd
6	6 180308G4_7	Standard	22.100	2.96	9195.080	17313.006	15.243	21.3	-3.6	NO	0.999	NO	bb
7	7 180308G4_8	Standard	44.200	2.96	19220.955	17057.236	32.341	45.2	2.3	NO	0.999	NO	bb
8	8 180308G4_9	Standard	66.300	2.97	26141.750	16048.904	46.749	65.3	-1.4	NO	0.999	NO	bb
9	9 180308G4_10	Standard	88.400	2.97	33471.086	15601.426	61.573	86.1	-2.6	NO	0.999	NO	bbX

Compound name: PFHxA

Coefficient of Determination: R² = 0.996340
 Calibration curve: 0.608155 * x
 Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	3.33	370.206	8706.558	0.425	0.7	39.8	NO	0.996	NO	bb
2	2 180308G4_3	Standard	1.000	3.33	656.521	8964.667	0.732	1.2	20.4	NO	0.996	NO	bb
3	3 180308G4_4	Standard	2.000	3.33	1159.051	8566.731	1.353	2.2	11.2	NO	0.996	NO	MM
4	4 180308G4_5	Standard	5.000	3.33	2437.024	7655.677	3.183	5.2	4.7	NO	0.996	NO	bb
5	5 180308G4_6	Standard	10.000	3.33	5374.554	8042.525	6.683	11.0	9.9	NO	0.996	NO	bb
6	6 180308G4_7	Standard	25.000	3.33	12329.196	7999.164	15.413	25.3	1.4	NO	0.996	NO	bb
7	7 180308G4_8	Standard	50.000	3.33	24145.951	7444.763	32.433	53.3	6.7	NO	0.996	NO	bb
8	8 180308G4_9	Standard	75.000	3.33	34506.688	7483.192	46.112	75.8	1.1	NO	0.996	NO	bb
9	9 180308G4_10	Standard	100.000	3.33	43612.594	7657.481	56.954	93.7	-6.3	NO	0.996	NO	bb

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Compound name: PFHpA

Coefficient of Determination: R² = 0.996626

Calibration curve: 0.992283 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	3.84	487.889	8706.558	0.560	0.6	12.9	NO	0.997	NO	bb
2	2 180308G4_3	Standard	1.000	3.84	1011.256	8964.667	1.128	1.1	13.7	NO	0.997	NO	bb
3	3 180308G4_4	Standard	2.000	3.84	1683.133	8566.731	1.965	2.0	-1.0	NO	0.997	NO	bb
4	4 180308G4_5	Standard	5.000	3.84	4254.413	7655.677	5.557	5.6	12.0	NO	0.997	NO	bb
5	5 180308G4_6	Standard	10.000	3.85	8506.402	8042.525	10.577	10.7	6.6	NO	0.997	NO	bb
6	6 180308G4_7	Standard	25.000	3.85	19392.865	7999.164	24.244	24.4	-2.3	NO	0.997	NO	bb
7	7 180308G4_8	Standard	50.000	3.85	39871.070	7444.763	53.556	54.0	7.9	NO	0.997	NO	MM
8	8 180308G4_9	Standard	75.000	3.85	56457.168	7483.192	75.445	76.0	1.4	NO	0.997	NO	MM
9	9 180308G4_10	Standard	100.000	3.85	71517.875	7657.481	93.396	94.1	-5.9	NO	0.997	NO	MM

Compound name: PFHxS

Coefficient of Determination: R² = 0.998175

Calibration curve: 0.749713 * x

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.455	3.97	241.170	19616.352	0.353	0.5	3.4	NO	0.998	NO	MMX
2	2 180308G4_3	Standard	0.910	3.97	521.291	18982.521	0.788	1.1	15.5	NO	0.998	NO	MM
3	3 180308G4_4	Standard	1.820	3.97	786.423	19149.248	1.179	1.6	-13.6	NO	0.998	NO	MM
4	4 180308G4_5	Standard	4.560	3.97	2196.549	16641.129	3.788	5.1	10.8	NO	0.998	NO	MM
5	5 180308G4_6	Standard	9.120	3.97	4343.800	17975.191	6.936	9.3	1.4	NO	0.998	NO	MM
6	6 180308G4_7	Standard	22.800	3.97	10178.254	17313.006	16.873	22.5	-1.3	NO	0.998	NO	MM
7	7 180308G4_8	Standard	45.600	3.98	19470.936	17057.236	32.761	43.7	-4.2	NO	0.998	NO	MM
8	8 180308G4_9	Standard	68.400	3.98	29379.602	16048.904	52.539	70.1	2.5	NO	0.998	NO	MM
9	9 180308G4_10	Standard	91.200	3.97	36928.949	15601.426	67.934	90.6	-0.6	NO	0.998	NO	MMX

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Compound name: PFOA

Coefficient of Determination: R² = 0.997445

Calibration curve: -0.000558495 * x² + 0.907111 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Force, 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 180308G4_2	Standard	0.500	4.27	489.083	8706.558	0.562	0.6	23.9	NO	0.997	NO	MM
2	2 180308G4_3	Standard	1.000	4.27	1022.173	8964.667	1.140	1.3	25.8	NO	0.997	NO	MM
3	3 180308G4_4	Standard	2.000	4.27	1493.500	8566.731	1.743	1.9	-3.8	NO	0.997	NO	bb
4	4 180308G4_5	Standard	5.000	4.27	3558.100	7655.677	4.648	5.1	2.8	NO	0.997	NO	bd
5	5 180308G4_6	Standard	10.000	4.27	7526.207	8042.525	9.358	10.4	3.8	NO	0.997	NO	bd
6	6 180308G4_7	Standard	25.000	4.27	16284.916	7999.164	20.358	22.8	-9.0	NO	0.997	NO	MM
7	7 180308G4_8	Standard	50.000	4.27	32540.285	7444.763	43.709	49.7	-0.6	NO	0.997	NO	MM
8	8 180308G4_9	Standard	75.000	4.27	51262.320	7483.192	68.503	79.4	5.9	NO	0.997	NO	MM
9	9 180308G4_10	Standard	100.000	4.27	63551.883	7657.481	82.993	97.3	-2.7	NO	0.997	NO	MM

Compound name: PFNA

Coefficient of Determination: R² = 0.997854

Calibration curve: 1.1965 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	4.61	555.482	8706.558	0.638	0.5	6.6	NO	0.998	NO	bb
2	2 180308G4_3	Standard	1.000	4.61	1260.879	8964.667	1.406	1.2	17.6	NO	0.998	NO	bb
3	3 180308G4_4	Standard	2.000	4.61	1880.580	8566.731	2.195	1.8	-8.3	NO	0.998	NO	bb
4	4 180308G4_5	Standard	5.000	4.61	5005.364	7655.677	6.538	5.5	9.3	NO	0.998	NO	bd
5	5 180308G4_6	Standard	10.000	4.61	10260.036	8042.525	12.757	10.7	6.6	NO	0.998	NO	bd
6	6 180308G4_7	Standard	25.000	4.61	22951.439	7999.164	28.692	24.0	-4.1	NO	0.998	NO	bd
7	7 180308G4_8	Standard	50.000	4.61	45817.930	7444.763	61.544	51.4	2.9	NO	0.998	NO	bb
8	8 180308G4_9	Standard	75.000	4.62	69746.133	7483.192	93.204	77.9	3.9	NO	0.998	NO	bb
9	9 180308G4_10	Standard	100.000	4.61	87512.836	7657.481	114.284	95.5	-4.5	NO	0.998	NO	bb

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Compound name: PFOS

Coefficient of Determination: R² = 0.998192

Calibration curve: 0.96246 * x

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.464	4.69	221.300	19616.352	0.324	0.3	-27.5	NO	0.998	NO	MMX
2	2 180308G4_3	Standard	0.925	4.68	631.065	18982.521	0.954	1.0	7.2	NO	0.998	NO	MM
3	3 180308G4_4	Standard	1.850	4.68	1027.660	19149.248	1.540	1.6	-13.5	NO	0.998	NO	MM
4	4 180308G4_5	Standard	4.625	4.68	2490.004	16641.129	4.294	4.5	-3.5	NO	0.998	NO	MM
5	5 180308G4_6	Standard	9.250	4.68	5644.277	17975.191	9.012	9.4	1.2	NO	0.998	NO	MM
6	6 180308G4_7	Standard	23.100	4.68	13051.208	17313.006	21.635	22.5	-2.7	NO	0.998	NO	MM
7	7 180308G4_8	Standard	46.200	4.68	25380.271	17057.236	42.704	44.4	-4.0	NO	0.998	NO	MM
8	8 180308G4_9	Standard	69.300	4.68	38742.164	16048.904	69.282	72.0	3.9	NO	0.998	NO	MM
9	9 180308G4_10	Standard	92.400	4.68	47718.473	15601.426	87.782	91.2	-1.3	NO	0.998	NO	MMX

Compound name: PFDA

Coefficient of Determination: R² = 0.999017

Calibration curve: -0.00224398 * x² + 1.32908 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Force, 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 180308G4_2	Standard	0.500	4.91	737.364	8706.558	0.847	0.6	27.6	NO	0.999	NO	bb
2	2 180308G4_3	Standard	1.000	4.91	1122.032	8964.667	1.252	0.9	-5.7	NO	0.999	NO	bb
3	3 180308G4_4	Standard	2.000	4.91	2046.182	8566.731	2.389	1.8	-9.9	NO	0.999	NO	bb
4	4 180308G4_5	Standard	5.000	4.92	5569.144	7655.677	7.275	5.5	10.5	NO	0.999	NO	bb
5	5 180308G4_6	Standard	10.000	4.91	10322.051	8042.525	12.834	9.8	-1.8	NO	0.999	NO	bd
6	6 180308G4_7	Standard	25.000	4.91	24389.537	7999.164	30.490	23.9	-4.4	NO	0.999	NO	bd
7	7 180308G4_8	Standard	50.000	4.91	45782.453	7444.763	61.496	50.6	1.2	NO	0.999	NO	bb
8	8 180308G4_9	Standard	75.000	4.92	66286.297	7483.192	88.580	76.5	2.1	NO	0.999	NO	bd
9	9 180308G4_10	Standard	100.000	4.91	83717.883	7657.481	109.328	98.7	-1.3	NO	0.999	NO	bd

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Compound name: N-MeFOSAA

Coefficient of Determination: R² = 0.997720

Calibration curve: 0.0036104 * x² + 1.18837 * x

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Force, 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 180308G4_2	Standard	0.500	5.04	217.401	15563.257	0.559	0.5	-6.1	NO	0.998	NO	bb
2	2 180308G4_3	Standard	1.000	5.04	501.114	17151.576	1.169	1.0	-1.9	NO	0.998	NO	bb
3	3 180308G4_4	Standard	2.000	5.04	759.052	16199.471	1.874	1.6	-21.5	NO	0.998	NO	bb
4	4 180308G4_5	Standard	5.000	5.05	2576.918	14850.035	6.941	5.7	14.8	NO	0.998	NO	bd
5	5 180308G4_6	Standard	10.000	5.04	4994.262	16138.044	12.379	10.1	1.1	NO	0.998	NO	bd
6	6 180308G4_7	Standard	25.000	5.04	12167.358	15586.661	31.225	24.5	-2.2	NO	0.998	NO	bd
7	7 180308G4_8	Standard	50.000	5.05	25835.361	15038.320	68.719	50.2	0.4	NO	0.998	NO	bd
8	8 180308G4_9	Standard	75.000	5.05	35536.563	13030.376	109.088	74.8	-0.3	NO	0.998	NO	bdX
9	9 180308G4_10	Standard	100.000	5.05	45696.266	13115.080	139.370	91.7	-8.3	NO	0.998	NO	bbX

Compound name: N-EtFOSAA

Coefficient of Determination: R² = 0.998054

Calibration curve: 0.975871 * x

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	5.17	156.542	15563.257	0.402	0.4	-17.5	NO	0.998	NO	bb
2	2 180308G4_3	Standard	1.000	5.17	413.592	17151.576	0.965	1.0	-1.2	NO	0.998	NO	bb
3	3 180308G4_4	Standard	2.000	5.17	701.598	16199.471	1.732	1.8	-11.2	NO	0.998	NO	bb
4	4 180308G4_5	Standard	5.000	5.17	1593.805	14850.035	4.293	4.4	-12.0	NO	0.998	NO	bd
5	5 180308G4_6	Standard	10.000	5.17	4188.622	16138.044	10.382	10.6	6.4	NO	0.998	NO	bb
6	6 180308G4_7	Standard	25.000	5.17	9653.593	15586.661	24.774	25.4	1.5	NO	0.998	NO	bb
7	7 180308G4_8	Standard	50.000	5.17	18307.518	15038.320	48.696	49.9	-0.2	NO	0.998	NO	bb
8	8 180308G4_9	Standard	75.000	5.17	26149.557	13030.376	80.273	82.3	9.7	NO	0.998	NO	bbX
9	9 180308G4_10	Standard	100.000	5.17	33400.066	13115.080	101.868	104.4	4.4	NO	0.998	NO	bdX

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Compound name: PFUnA

Coefficient of Determination: R² = 0.995450

Calibration curve: 1.15303 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	5.18	626.494	8706.558	0.720	0.6	24.8	NO	0.995	NO	MM
2	2 180308G4_3	Standard	1.000	5.18	1075.974	8964.667	1.200	1.0	4.1	NO	0.995	NO	bb
3	3 180308G4_4	Standard	2.000	5.18	2039.292	8566.731	2.380	2.1	3.2	NO	0.995	NO	bd
4	4 180308G4_5	Standard	5.000	5.18	4734.490	7655.677	6.184	5.4	7.3	NO	0.995	NO	bb
5	5 180308G4_6	Standard	10.000	5.18	9850.028	8042.525	12.247	10.6	6.2	NO	0.995	NO	MM
6	6 180308G4_7	Standard	25.000	5.18	23654.301	7999.164	29.571	25.6	2.6	NO	0.995	NO	bd
7	7 180308G4_8	Standard	50.000	5.18	46537.535	7444.763	62.510	54.2	8.4	NO	0.995	NO	MM
8	8 180308G4_9	Standard	75.000	5.18	66206.539	7483.192	88.474	76.7	2.3	NO	0.995	NO	MM
9	9 180308G4_10	Standard	100.000	5.18	81400.578	7657.481	106.302	92.2	-7.8	NO	0.995	NO	bd

Compound name: PFDoA

Coefficient of Determination: R² = 0.997346

Calibration curve: 0.167843 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	5.40	66.926	8706.558	0.077	0.5	-8.4	NO	0.997	NO	MM
2	2 180308G4_3	Standard	1.000	5.40	134.402	8964.667	0.150	0.9	-10.7	NO	0.997	NO	MM
3	3 180308G4_4	Standard	2.000	5.40	275.917	8566.731	0.322	1.9	-4.1	NO	0.997	NO	MM
4	4 180308G4_5	Standard	5.000	5.40	683.274	7655.677	0.893	5.3	6.4	NO	0.997	NO	MM
5	5 180308G4_6	Standard	10.000	5.40	1406.645	8042.525	1.749	10.4	4.2	NO	0.997	NO	MM
6	6 180308G4_7	Standard	25.000	5.40	3266.763	7999.164	4.084	24.3	-2.7	NO	0.997	NO	MM
7	7 180308G4_8	Standard	50.000	5.40	6656.438	7444.763	8.941	53.3	6.5	NO	0.997	NO	MM
8	8 180308G4_9	Standard	75.000	5.40	9715.607	7483.192	12.983	77.4	3.1	NO	0.997	NO	MM
9	9 180308G4_10	Standard	100.000	5.40	12150.216	7657.481	15.867	94.5	-5.5	NO	0.997	NO	MM

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Compound name: PFTrDA

Coefficient of Determination: R² = 0.999002

Calibration curve: 1.56071 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	5.59	772.936	8706.558	0.888	0.6	13.8	NO	0.999	NO	bb
2	2 180308G4_3	Standard	1.000	5.59	1453.959	8964.667	1.622	1.0	3.9	NO	0.999	NO	bb
3	3 180308G4_4	Standard	2.000	5.59	2543.679	8566.731	2.969	1.9	-4.9	NO	0.999	NO	bb
4	4 180308G4_5	Standard	5.000	5.59	6647.866	7655.677	8.684	5.6	11.3	NO	0.999	NO	bb
5	5 180308G4_6	Standard	10.000	5.59	13470.743	8042.525	16.749	10.7	7.3	NO	0.999	NO	bd
6	6 180308G4_7	Standard	25.000	5.59	31677.010	7999.164	39.600	25.4	1.5	NO	0.999	NO	bb
7	7 180308G4_8	Standard	50.000	5.59	57701.797	7444.763	77.507	49.7	-0.7	NO	0.999	NO	bd
8	8 180308G4_9	Standard	75.000	5.59	89276.469	7483.192	119.303	76.4	1.9	NO	0.999	NO	MM
9	9 180308G4_10	Standard	100.000	5.59	116187.070	7657.481	151.730	97.2	-2.8	NO	0.999	NO	bd

Compound name: PFTeDA

Coefficient of Determination: R² = 0.995873

Calibration curve: 1.41495 * x

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, 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 180308G4_2	Standard	0.500	5.76	858.224	8706.558	0.986	0.7	39.3	NO	0.996	NO	MM
2	2 180308G4_3	Standard	1.000	5.76	1369.222	8964.667	1.527	1.1	7.9	NO	0.996	NO	bb
3	3 180308G4_4	Standard	2.000	5.76	2539.990	8566.731	2.965	2.1	4.8	NO	0.996	NO	MM
4	4 180308G4_5	Standard	5.000	5.76	6328.903	7655.677	8.267	5.8	16.9	NO	0.996	NO	bd
5	5 180308G4_6	Standard	10.000	5.76	12423.143	8042.525	15.447	10.9	9.2	NO	0.996	NO	MM
6	6 180308G4_7	Standard	25.000	5.76	27943.932	7999.164	34.934	24.7	-1.2	NO	0.996	NO	MM
7	7 180308G4_8	Standard	50.000	5.76	56237.180	7444.763	75.539	53.4	6.8	NO	0.996	NO	bb
8	8 180308G4_9	Standard	75.000	5.76	80897.297	7483.192	108.105	76.4	1.9	NO	0.996	NO	MM
9	9 180308G4_10	Standard	100.000	5.76	101190.055	7657.481	132.145	93.4	-6.6	NO	0.996	NO	MM

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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Compound name: 13C2-PFHxA

Response Factor: 0.809778

RRF SD: 0.043821, Relative SD: 5.41149

Response type: Internal Std (Ref 18), 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 180308G4_2	Standard	10.000	3.33	6671.333	8706.558	7.662	9.5	-5.4	NO		NO	bb
2	2 180308G4_3	Standard	10.000	3.33	7361.791	8964.667	8.212	10.1	1.4	NO		NO	bb
3	3 180308G4_4	Standard	10.000	3.33	7007.002	8566.731	8.179	10.1	1.0	NO		NO	bb
4	4 180308G4_5	Standard	10.000	3.33	6298.206	7655.677	8.227	10.2	1.6	NO		NO	bb
5	5 180308G4_6	Standard	10.000	3.33	6538.247	8042.525	8.130	10.0	0.4	NO		NO	bb
6	6 180308G4_7	Standard	10.000	3.33	6552.955	7999.164	8.192	10.1	1.2	NO		NO	bb
7	7 180308G4_8	Standard	10.000	3.33	6669.258	7444.763	8.958	11.1	10.6	NO		NO	bb
8	8 180308G4_9	Standard	10.000	3.33	5953.959	7483.192	7.956	9.8	-1.7	NO		NO	bb
9	9 180308G4_10	Standard	10.000	3.33	5638.188	7657.481	7.363	9.1	-9.1	NO		NO	bb

Compound name: 13C2-PFDA

Response Factor: 1.05702

RRF SD: 0.0601094, Relative SD: 5.68668

Response type: Internal Std (Ref 18), 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 180308G4_2	Standard	10.000	4.91	9612.754	8706.558	11.041	10.4	4.5	NO		NO	bb
2	2 180308G4_3	Standard	10.000	4.91	8875.748	8964.667	9.901	9.4	-6.3	NO		NO	bb
3	3 180308G4_4	Standard	10.000	4.91	9492.073	8566.731	11.080	10.5	4.8	NO		NO	bb
4	4 180308G4_5	Standard	10.000	4.92	8632.013	7655.677	11.275	10.7	6.7	NO		NO	bb
5	5 180308G4_6	Standard	10.000	4.91	8786.122	8042.525	10.925	10.3	3.4	NO		NO	bb
6	6 180308G4_7	Standard	10.000	4.91	8721.356	7999.164	10.903	10.3	3.1	NO		NO	bb
7	7 180308G4_8	Standard	10.000	4.92	7756.745	7444.763	10.419	9.9	-1.4	NO		NO	bb
8	8 180308G4_9	Standard	10.000	4.92	7337.072	7483.192	9.805	9.3	-7.2	NO		NO	bd
9	9 180308G4_10	Standard	10.000	4.92	7491.791	7657.481	9.784	9.3	-7.4	NO		NO	bd

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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Compound name: d5-N-EtFOSAA

Response Factor: 0.97146

RRF SD: 0.0651747, Relative SD: 6.70895

Response type: Internal Std (Ref 20), 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 180308G4_2	Standard	40.000	5.17	17046.438	15563.257	43.812	45.1	12.7	NO		NO	bd
2	2 180308G4_3	Standard	40.000	5.16	15747.995	17151.576	36.727	37.8	-5.5	NO		NO	bb
3	3 180308G4_4	Standard	40.000	5.17	15647.116	16199.471	38.636	39.8	-0.6	NO		NO	bb
4	4 180308G4_5	Standard	40.000	5.17	13333.662	14850.035	35.916	37.0	-7.6	NO		NO	bd
5	5 180308G4_6	Standard	40.000	5.17	16070.356	16138.044	39.832	41.0	2.5	NO		NO	bd
6	6 180308G4_7	Standard	40.000	5.17	15392.552	15586.661	39.502	40.7	1.7	NO		NO	bd
7	7 180308G4_8	Standard	40.000	5.17	14130.126	15038.320	37.584	38.7	-3.3	NO		NO	bd
8	8 180308G4_9	Standard	40.000	5.17	14467.088	13030.376	44.410	45.7	14.3	NO		NO	bbX
9	9 180308G4_10	Standard	40.000	5.17	13272.534	13115.080	40.480	41.7	4.2	NO		NO	bdX

Compound name: 13C2-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 18), 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 180308G4_2	Standard	10.000	4.27	8706.558	8706.558	10.000	10.0	0.0	NO		NO	bb
2	2 180308G4_3	Standard	10.000	4.26	8964.667	8964.667	10.000	10.0	0.0	NO		NO	bb
3	3 180308G4_4	Standard	10.000	4.26	8566.731	8566.731	10.000	10.0	0.0	NO		NO	bd
4	4 180308G4_5	Standard	10.000	4.27	7655.677	7655.677	10.000	10.0	0.0	NO		NO	bd
5	5 180308G4_6	Standard	10.000	4.27	8042.525	8042.525	10.000	10.0	0.0	NO		NO	bd
6	6 180308G4_7	Standard	10.000	4.27	7999.164	7999.164	10.000	10.0	0.0	NO		NO	bb
7	7 180308G4_8	Standard	10.000	4.27	7444.763	7444.763	10.000	10.0	0.0	NO		NO	bd
8	8 180308G4_9	Standard	10.000	4.27	7483.192	7483.192	10.000	10.0	0.0	NO		NO	bb
9	9 180308G4_10	Standard	10.000	4.27	7657.481	7657.481	10.000	10.0	0.0	NO		NO	bd

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 1.11022e-016, Relative SD: 1.11022e-014

Response type: Internal Std (Ref 19), 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 180308G4_2	Standard	28.700	4.68	19616.352	19616.352	28.700	28.7	0.0	NO		NO	bbX
2	2 180308G4_3	Standard	28.700	4.68	18982.521	18982.521	28.700	28.7	0.0	NO		NO	bb
3	3 180308G4_4	Standard	28.700	4.68	19149.248	19149.248	28.700	28.7	0.0	NO		NO	bb
4	4 180308G4_5	Standard	28.700	4.68	16641.129	16641.129	28.700	28.7	0.0	NO		NO	bd
5	5 180308G4_6	Standard	28.700	4.68	17975.191	17975.191	28.700	28.7	0.0	NO		NO	bd
6	6 180308G4_7	Standard	28.700	4.68	17313.006	17313.006	28.700	28.7	0.0	NO		NO	bb
7	7 180308G4_8	Standard	28.700	4.68	17057.236	17057.236	28.700	28.7	0.0	NO		NO	bb
8	8 180308G4_9	Standard	28.700	4.68	16048.904	16048.904	28.700	28.7	0.0	NO		NO	bd
9	9 180308G4_10	Standard	28.700	4.68	15601.426	15601.426	28.700	28.7	0.0	NO		NO	bbX

Compound name: d3-N-MeFOSAA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 20), 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 180308G4_2	Standard	40.000	5.04	15563.257	15563.257	40.000	40.0	0.0	NO		NO	bb
2	2 180308G4_3	Standard	40.000	5.04	17151.576	17151.576	40.000	40.0	0.0	NO		NO	bd
3	3 180308G4_4	Standard	40.000	5.04	16199.471	16199.471	40.000	40.0	0.0	NO		NO	bb
4	4 180308G4_5	Standard	40.000	5.04	14850.035	14850.035	40.000	40.0	0.0	NO		NO	bb
5	5 180308G4_6	Standard	40.000	5.04	16138.044	16138.044	40.000	40.0	0.0	NO		NO	bd
6	6 180308G4_7	Standard	40.000	5.04	15586.661	15586.661	40.000	40.0	0.0	NO		NO	bd
7	7 180308G4_8	Standard	40.000	5.04	15038.320	15038.320	40.000	40.0	0.0	NO		NO	bb
8	8 180308G4_9	Standard	40.000	5.04	13030.376	13030.376	40.000	40.0	0.0	NO		NO	bdX
9	9 180308G4_10	Standard	40.000	5.04	13115.080	13115.080	40.000	40.0	0.0	NO		NO	bbX

Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

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Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:23:45

Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Name: 180308G4_2, Date: 08-Mar-2018, Time: 18:03:16, ID: ST180308G4-1 PFC CS-3 537 18B2301, Description: PFC CS-3 537 18B2301

#	Name	IS#	CoD	CoD Flag	%RSD
1	1 PFBS	19	0.9988	NO	
2	2 PFHxA	18	0.9963	NO	
3	3 PFHpA	18	0.9966	NO	
4	4 PFHxS	19	0.9982	NO	
5	5 PFOA	18	0.9974	NO	
6	6 PFNA	18	0.9979	NO	
7	7 PFOS	19	0.9982	NO	
8	8 PFDA	18	0.9990	NO	
9	9 N-MeFOSAA	20	0.9977	NO	
10	10 N-EtFOSAA	20	0.9981	NO	
11	11 PFUnA	18	0.9954	NO	
12	12 PFDoA	18	0.9973	NO	
13	13 PFTrDA	18	0.9990	NO	
14	14 PFTeDA	18	0.9959	NO	
15	15 13C2-PFHxA	18		NO	5.411
16	16 13C2-PFDA	18		NO	5.687
17	17 d5-N-EtFOSAA	20		NO	6.709
18	18 13C2-PFOA	18		NO	0.000
19	19 13C4-PFOS	19		NO	0.000
20	20 d3-N-MeFOSAA	20		NO	0.000

Dataset: Untitled

Last Altered: Friday, March 09, 2018 12:11:16 Pacific Standard Time
Printed: Friday, March 09, 2018 12:11:45 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:32:26
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	180308G4_1	IPA	08-Mar-18	17:51:14
2	180308G4_2	ST180308G4-1 PFC CS-3 537 18B2301	08-Mar-18	18:03:16
3	180308G4_3	ST180308G4-2 PFC CS-2 537 18B2302	08-Mar-18	18:15:37
4	180308G4_4	ST180308G4-3 PFC CS-1 537 18C0806	08-Mar-18	18:28:01
5	180308G4_5	ST180308G4-4 PFC CS0 537 18B2303	08-Mar-18	18:40:18
6	180308G4_6	ST180308G4-5 PFC CS1 537 18B2304	08-Mar-18	18:52:44
7	180308G4_7	ST180308G4-6 PFC CS2 537 18B2305	08-Mar-18	19:05:09
8	180308G4_8	ST180308G4-7 PFC CS3 537 18B2306	08-Mar-18	19:17:34
9	180308G4_9	ST180308G4-8 PFC CS4 537 18B2307	08-Mar-18	19:29:59
10	180308G4_10	ST180308G4-9 PFC CS5 537 18B2308	08-Mar-18	19:42:25
11	180308G4_11	IPA	08-Mar-18	19:54:45
12	180308G4_12	ICV180308G4-1 PFC ICV 537 18B2309	08-Mar-18	20:07:13
13	180308G4_13	IPA	08-Mar-18	20:19:35

ICAL

Compound 18: 13C2-PFOA

high 8964.667 RPD
low 7444.763 18.52

ID	Name	Type	Std. Cor	RT	Area	IS Area	Response	Primary Flags
1	ST180308G4-1 PFC CS-3 537 18B2301	180308G4_2	Standard	10	4.27	8706.558	8706.558	10 bb
2	ST180308G4-2 PFC CS-2 537 18B2302	180308G4_3	Standard	10	4.26	8964.667	8964.667	10 bb
3	ST180308G4-3 PFC CS-1 537 18C0806	180308G4_4	Standard	10	4.26	8566.731	8566.731	10 bd
4	ST180308G4-4 PFC CS0 537 18B2303	180308G4_5	Standard	10	4.27	7655.677	7655.677	10 bd
5	ST180308G4-5 PFC CS1 537 18B2304	180308G4_6	Standard	10	4.27	8042.525	8042.525	10 bd
6	ST180308G4-6 PFC CS2 537 18B2305	180308G4_7	Standard	10	4.27	7999.164	7999.164	10 bb
7	ST180308G4-7 PFC CS3 537 18B2306	180308G4_8	Standard	10	4.27	7444.763	7444.763	10 bd
8	ST180308G4-8 PFC CS4 537 18B2307	180308G4_9	Standard	10	4.27	7483.192	7483.192	10 bb
9	ST180308G4-9 PFC CS5 537 18B2308	180308G4_10	Standard	10	4.27	7657.481	7657.481	10 bd
							average	
							8057.86	

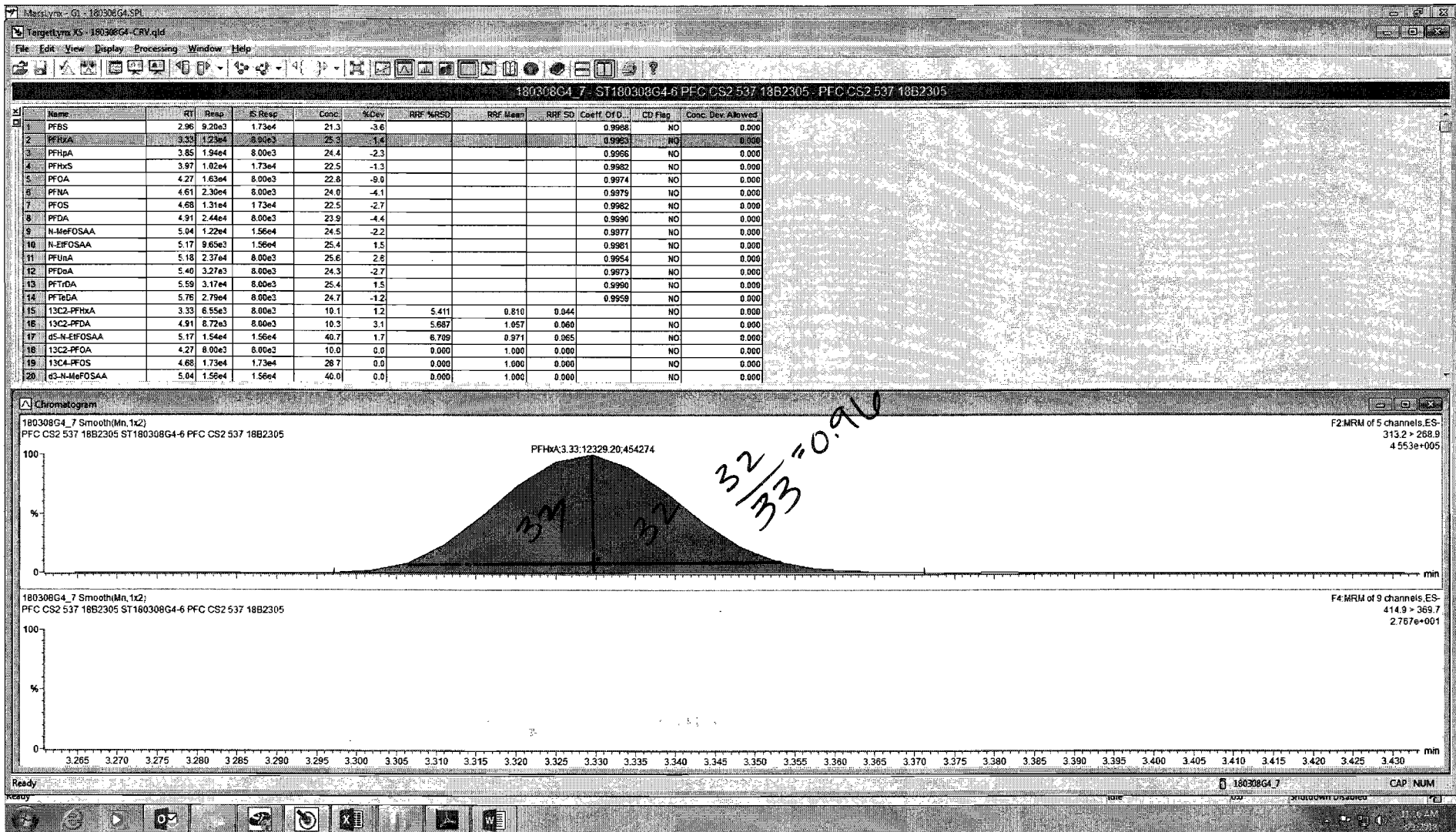
Compound 19: 13C4-PFOS

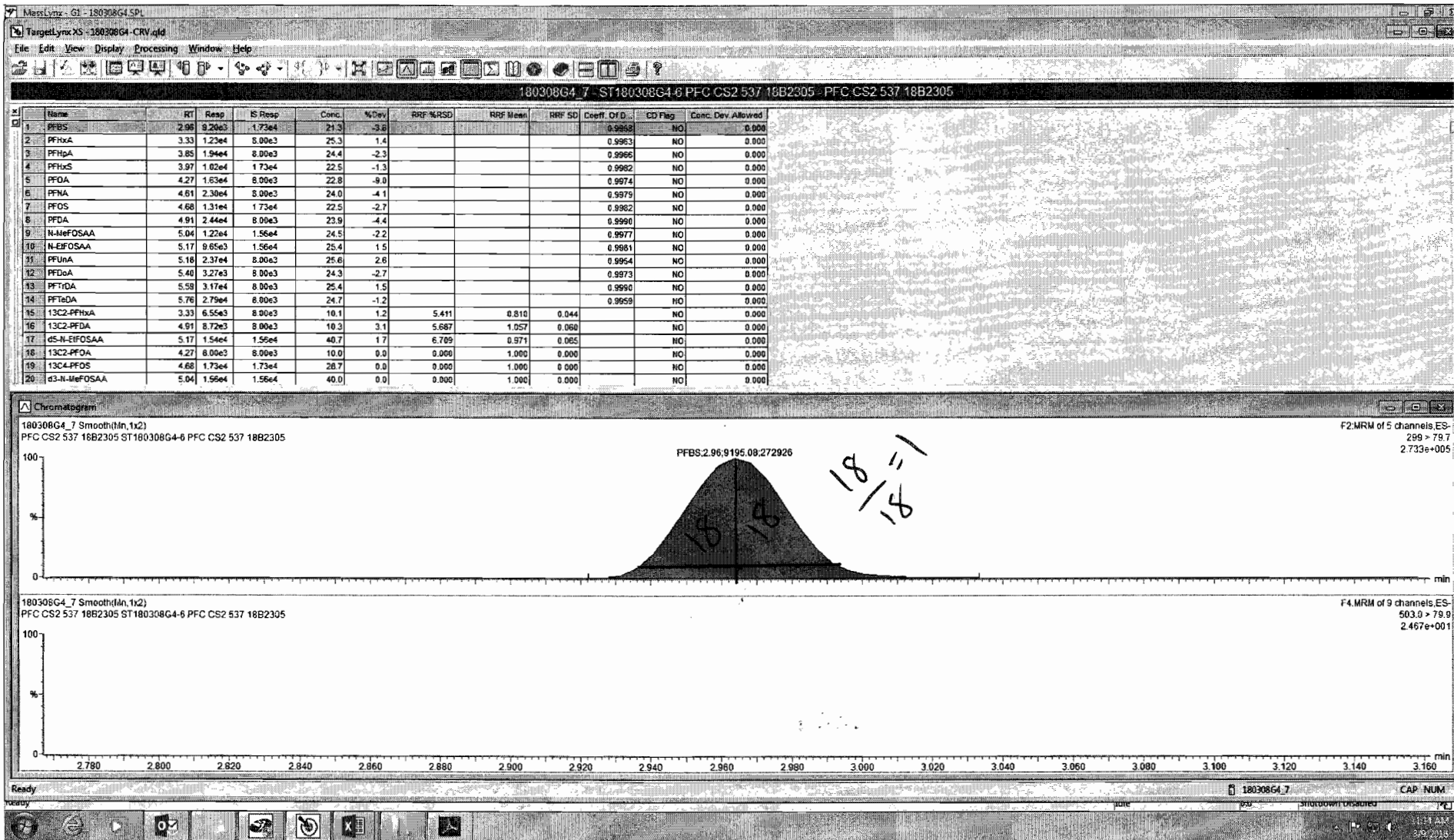
high 19149.248 RPD
low 16048.90 17.62

ID	Name	Type	Std. Cor	RT	Area	IS Area	Response	Primary Flags
1	ST180308G4-1 PFC CS-3 537 18B2301	180308G4_2	Standard	28.7	4.68	19616.35	19616.35	28.7 bbx
2	ST180308G4-2 PFC CS-2 537 18B2302	180308G4_3	Standard	28.7	4.68	18982.52	18982.52	28.7 bb
3	ST180308G4-3 PFC CS-1 537 18C0806	180308G4_4	Standard	28.7	4.68	19149.25	19149.25	28.7 bb
4	ST180308G4-4 PFC CS0 537 18B2303	180308G4_5	Standard	28.7	4.68	16641.13	16641.13	28.7 bd
5	ST180308G4-5 PFC CS1 537 18B2304	180308G4_6	Standard	28.7	4.68	17975.19	17975.19	28.7 bd
6	ST180308G4-6 PFC CS2 537 18B2305	180308G4_7	Standard	28.7	4.68	17313.01	17313.01	28.7 bb
7	ST180308G4-7 PFC CS3 537 18B2306	180308G4_8	Standard	28.7	4.68	17057.24	17057.24	28.7 bb
8	ST180308G4-8 PFC CS4 537 18B2307	180308G4_9	Standard	28.7	4.68	16048.9	16048.90	28.7 bd
9	ST180308G4-9 PFC CS5 537 18B2308	180308G4_10	Standard	28.7	4.68	15601.43	15601.43	28.7 bbx
							average	
							17595.32	

Compound 20: d3-N-MeFOSAA
 high 17151.576 RPD
 low 14850.035 14.38

ID	Name	Type	Std. Cor RT	Area	IS Area	Response	Primary Flags	
1	ST180308G4-1 PFC CS-3 537 18B2301	180308G4_2	Standard	40	5.04	15563.26	15563.26	40 bb
2	ST180308G4-2 PFC CS-2 537 18B2302	180308G4_3	Standard	40	5.04	17151.58	17151.58	40 bd
3	ST180308G4-3 PFC CS-1 537 18C0806	180308G4_4	Standard	40	5.04	16199.47	16199.47	40 bb
4	ST180308G4-4 PFC CS0 537 18B2303	180308G4_5	Standard	40	5.04	14850.04	14850.04	40 bb
5	ST180308G4-5 PFC CS1 537 18B2304	180308G4_6	Standard	40	5.04	16138.04	16138.04	40 bd
6	ST180308G4-6 PFC CS2 537 18B2305	180308G4_7	Standard	40	5.04	15586.66	15586.66	40 bd
7	ST180308G4-7 PFC CS3 537 18B2306	180308G4_8	Standard	40	5.04	15038.32	15038.32	40 bb
8	ST180308G4-8 PFC CS4 537 18B2307	180308G4_9	Standard	40	5.04	13030.38	13030.38	40 bdx
9	ST180308G4-9 PFC CS5 537 18B2308	180308G4_10	Standard	40	5.04	13115.08	13115.08	40 bbX
						average		
						15789.62		





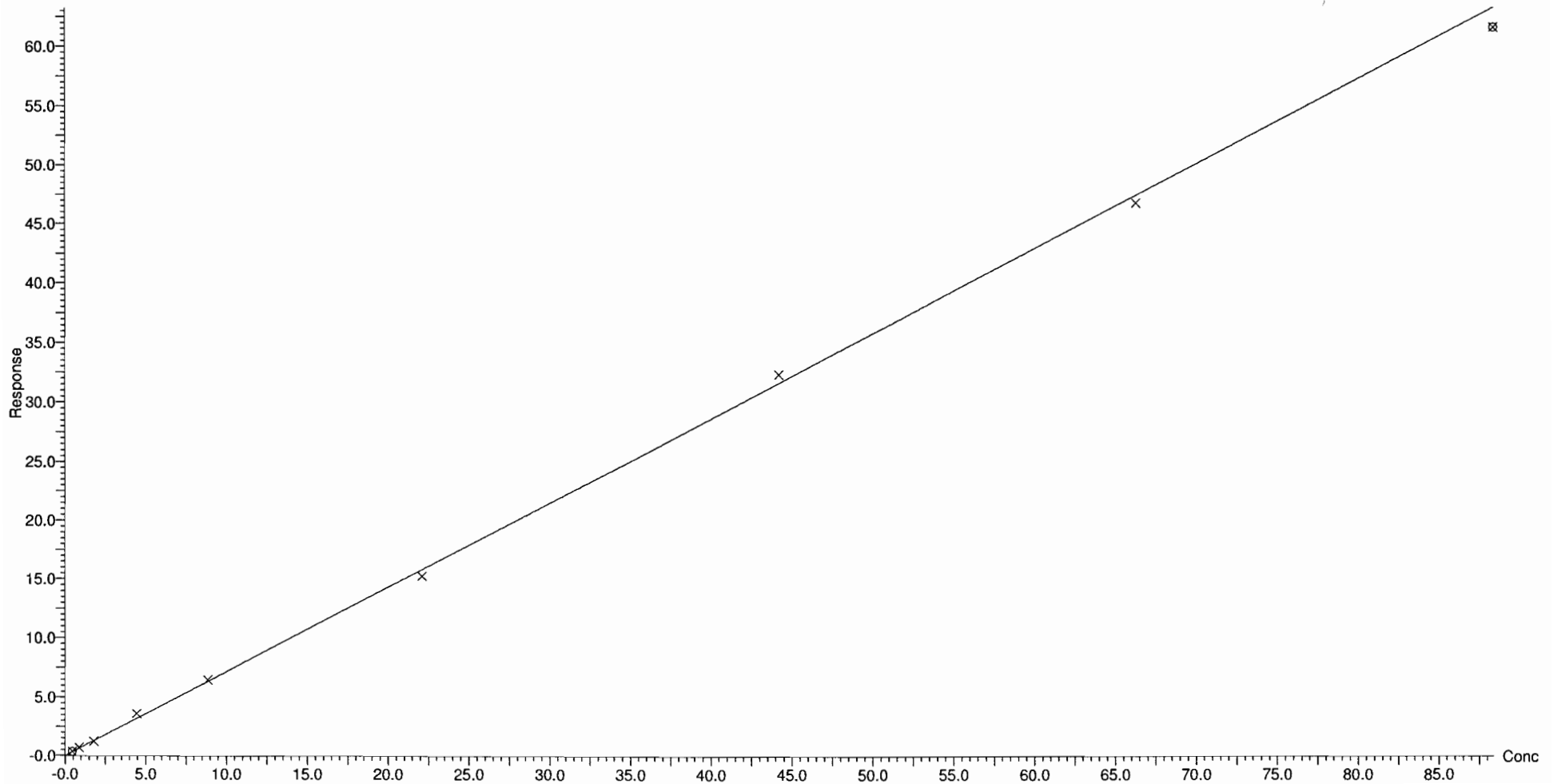
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Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:23:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Compound name: PFBS
Coefficient of Determination: $R^2 = 0.998784$
Calibration curve: $0.715403 * x$
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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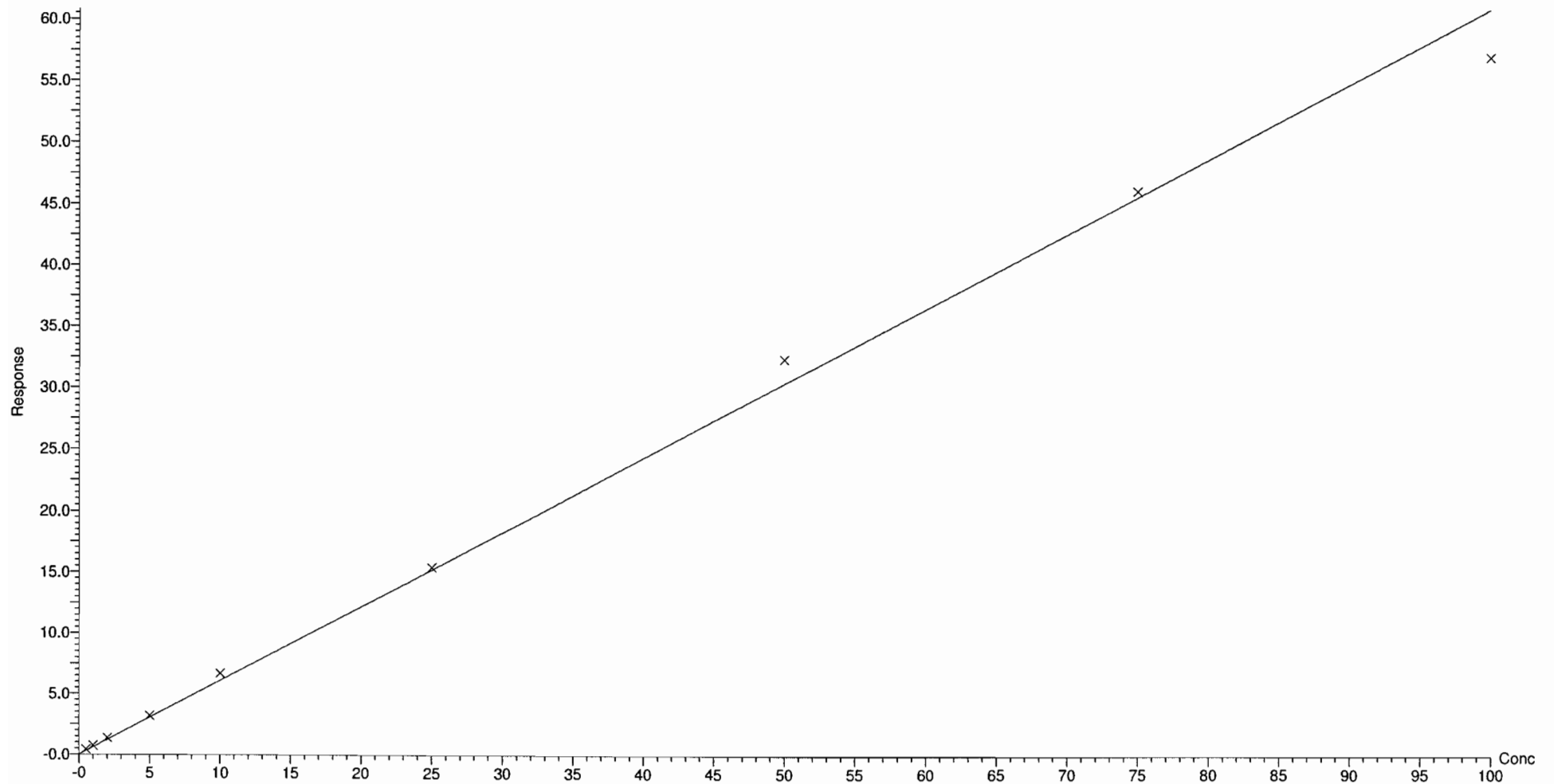
Compound name: PFHxA

Coefficient of Determination: $R^2 = 0.996340$

Calibration curve: $0.608155 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

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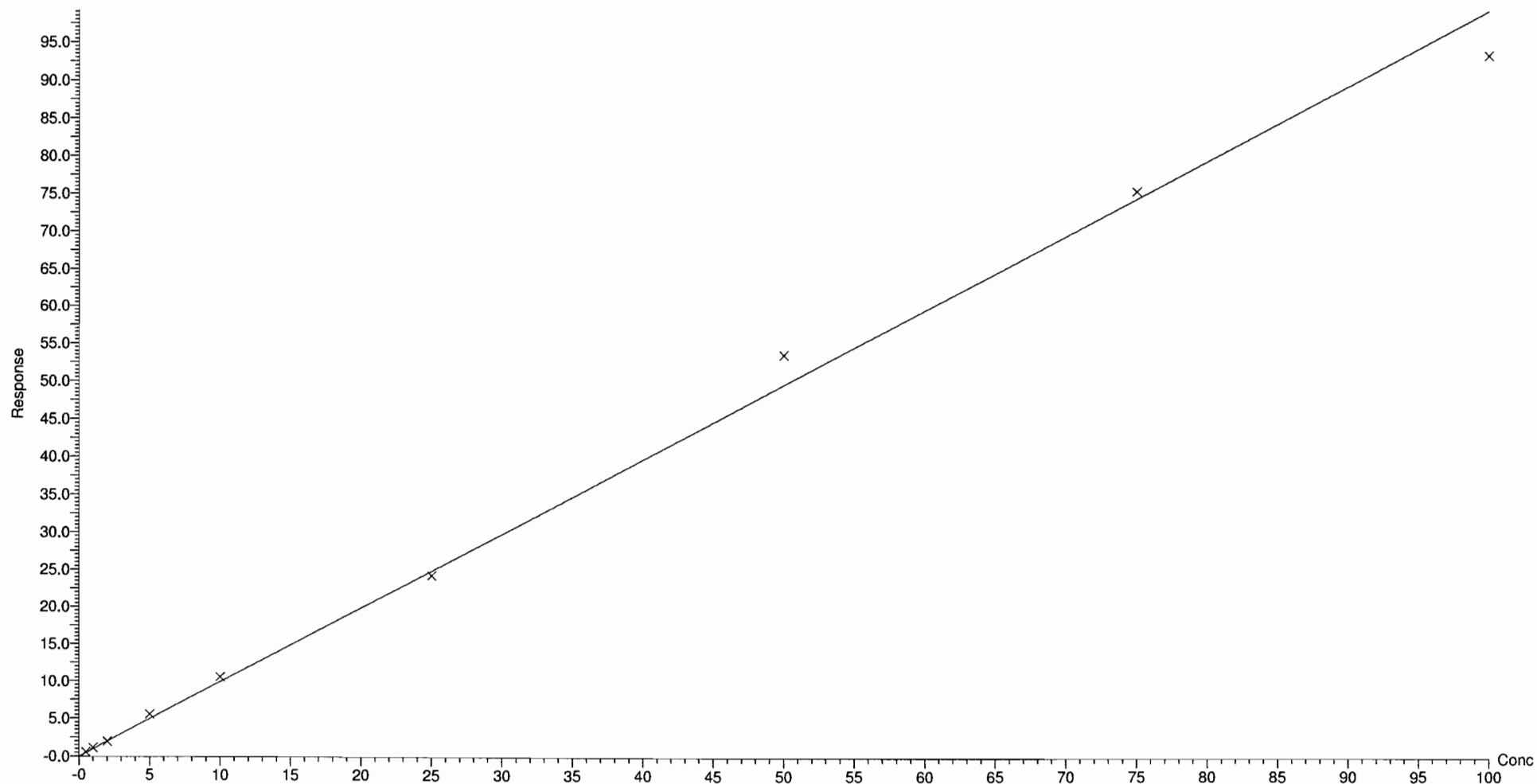
Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.996626$

Calibration curve: $0.992283 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

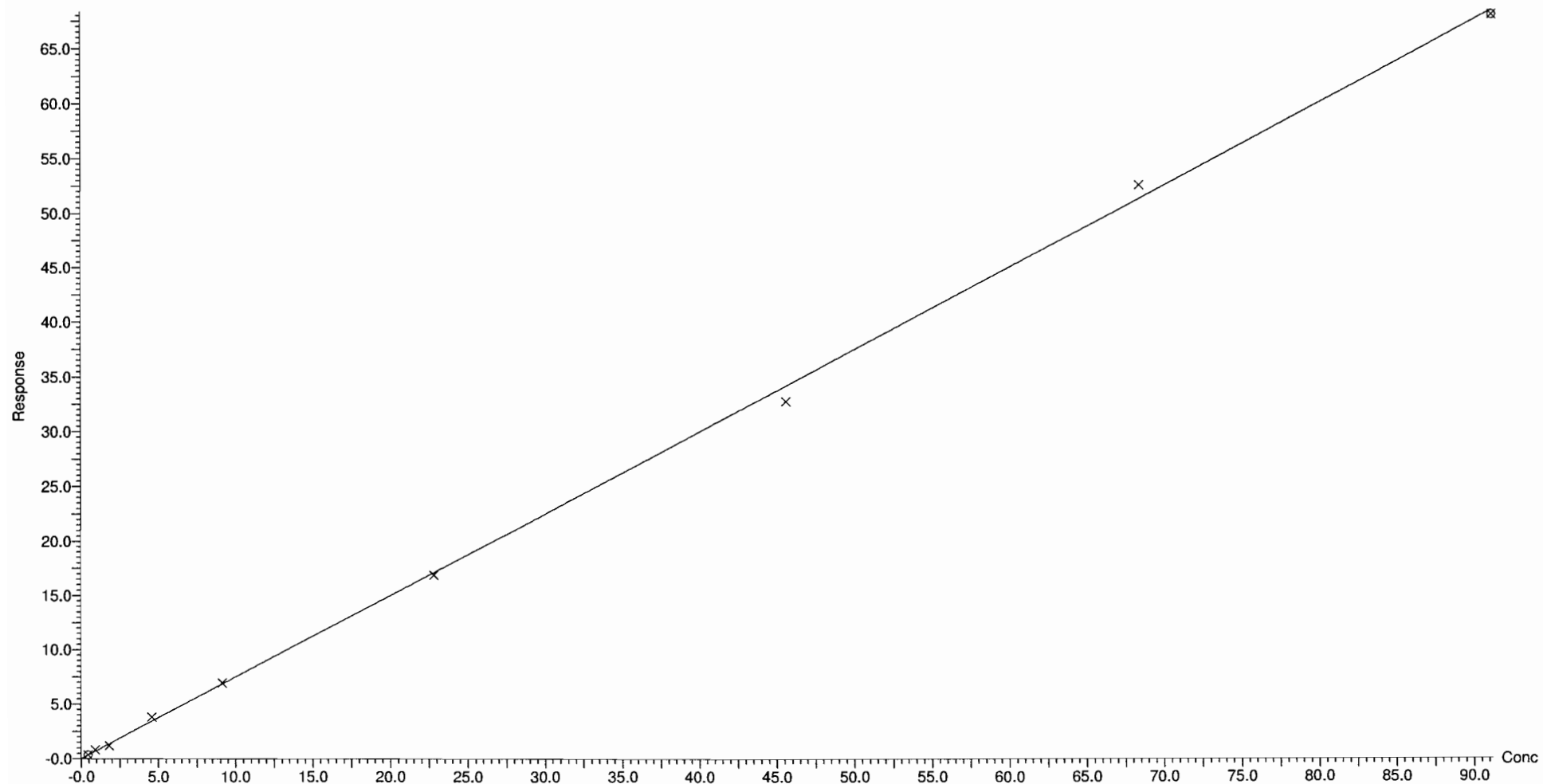
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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Compound name: PFHxS
Coefficient of Determination: $R^2 = 0.998175$
Calibration curve: $0.749713 * x$
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

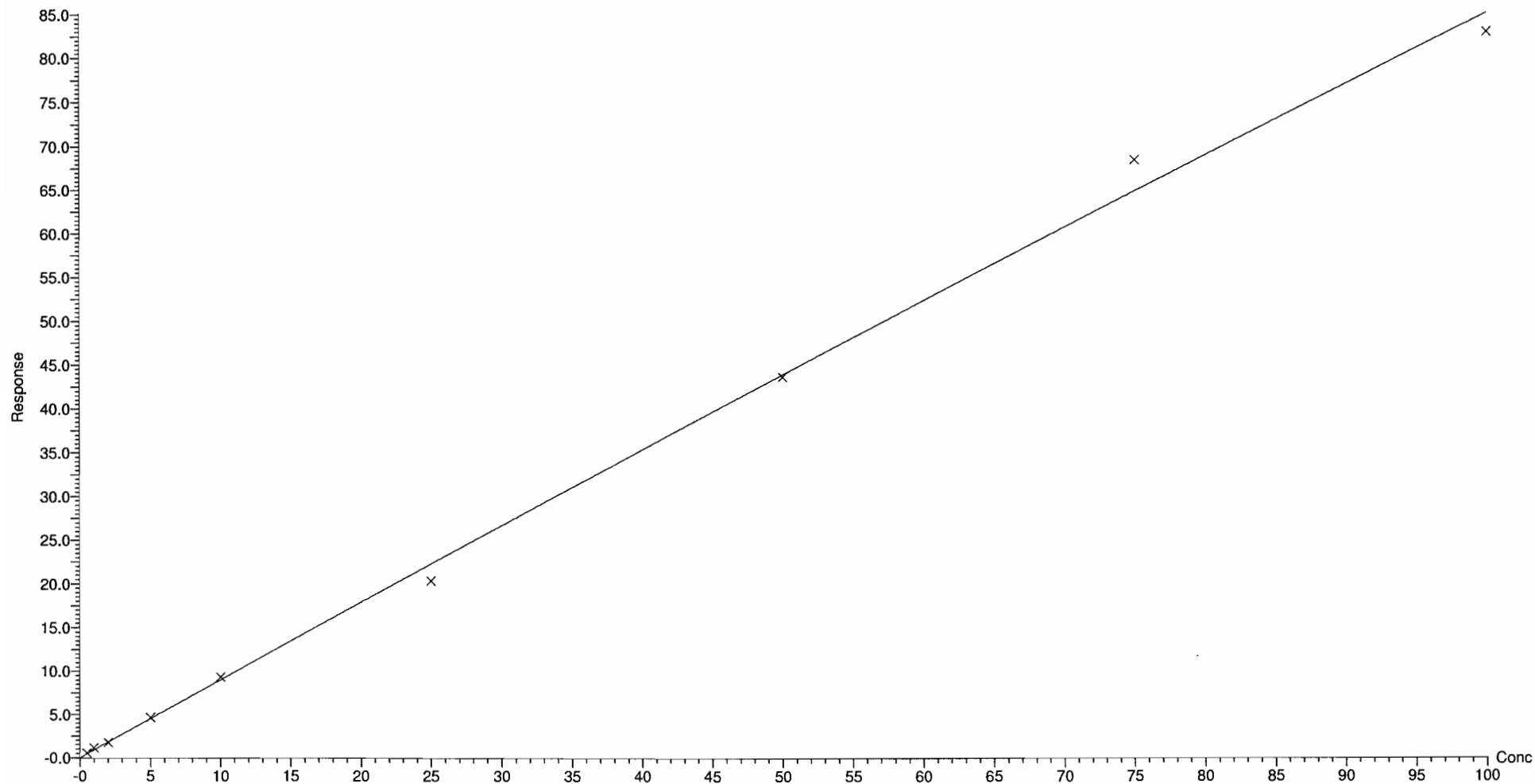
Compound name: PFOA

Coefficient of Determination: $R^2 = 0.997445$

Calibration curve: $-0.000558495 * x^2 + 0.907111 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

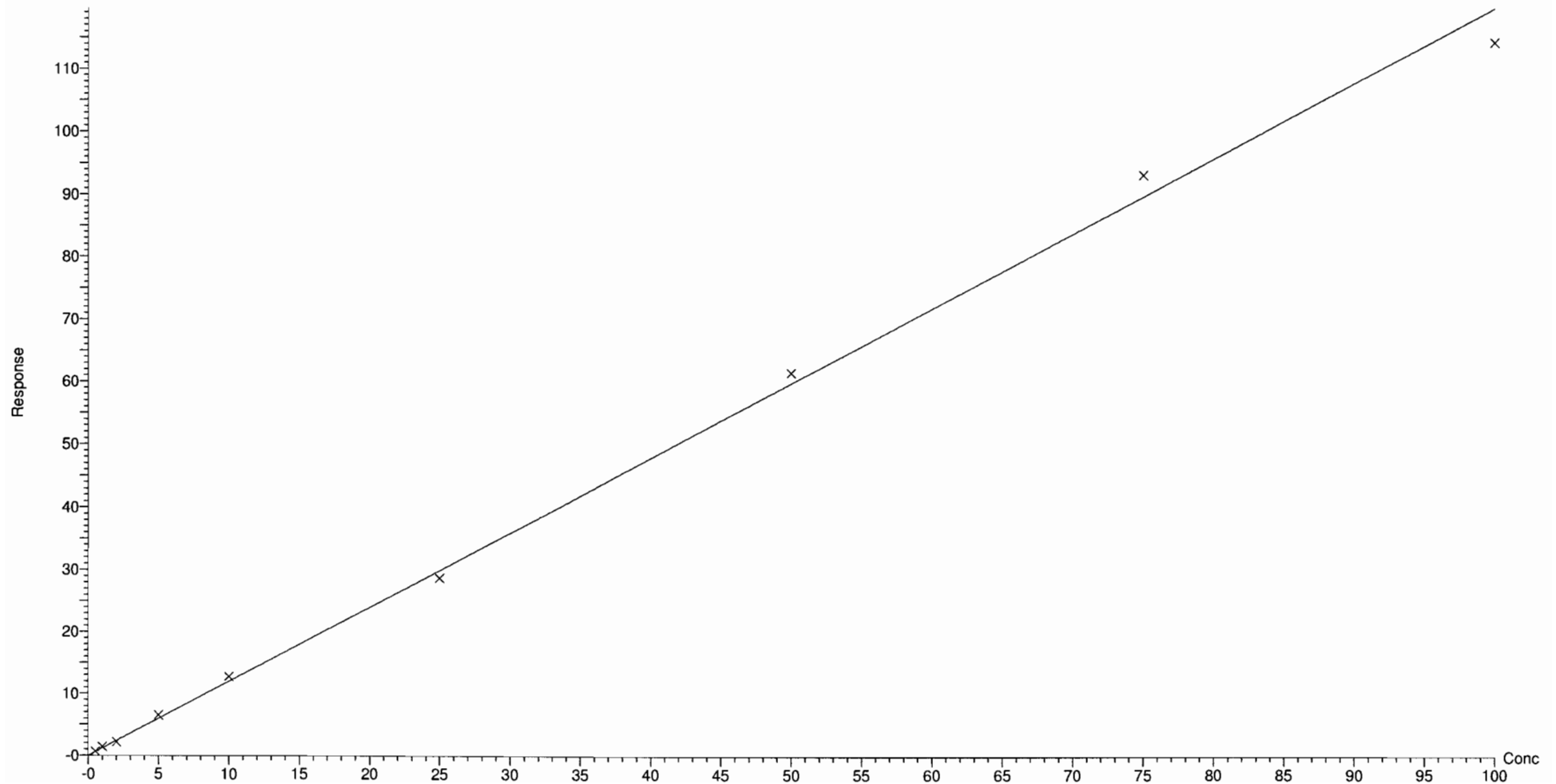
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.997854$

Calibration curve: $1.1965 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

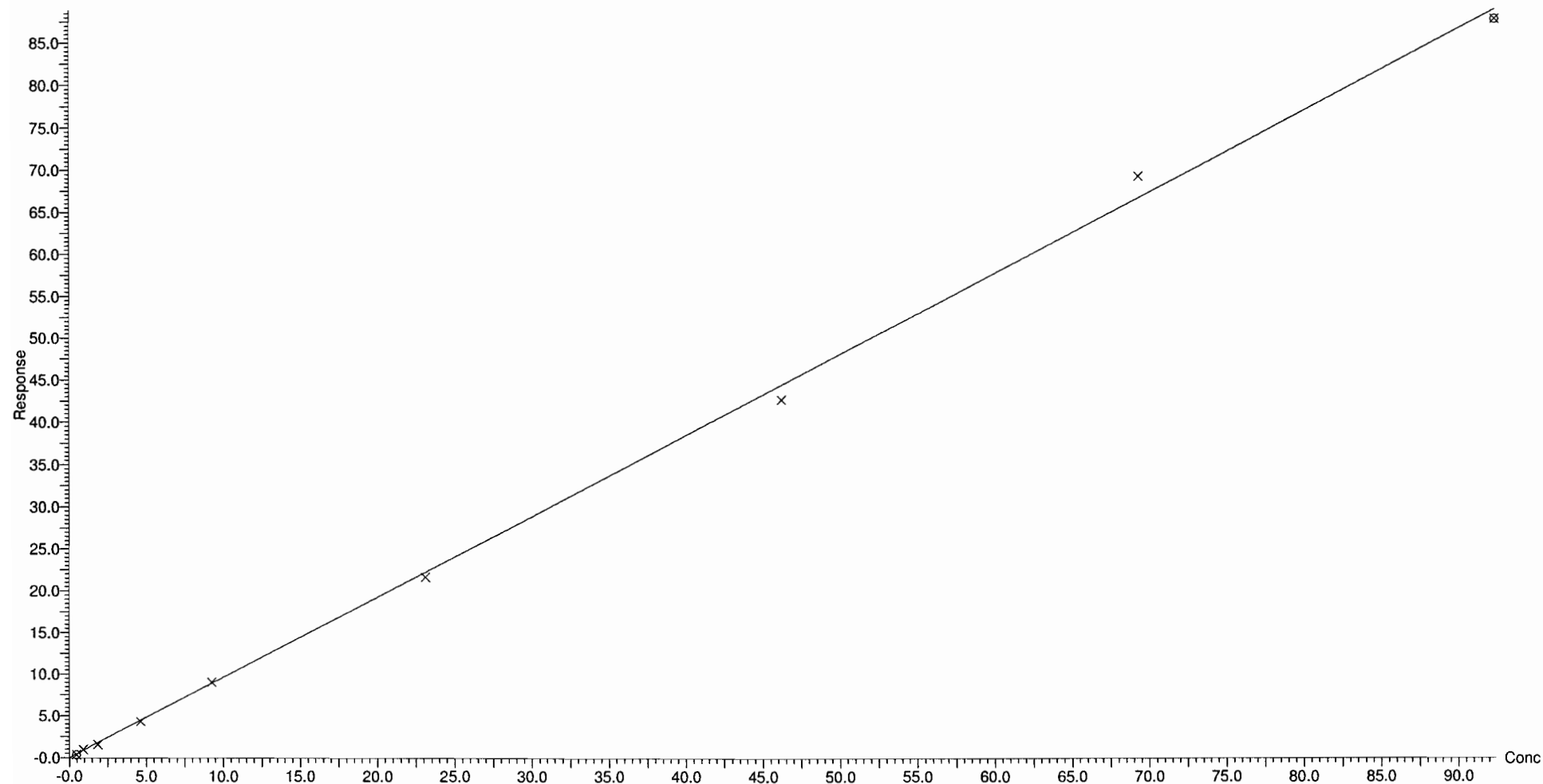
Compound name: PFOS

Coefficient of Determination: $R^2 = 0.998192$

Calibration curve: $0.96246 * x$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

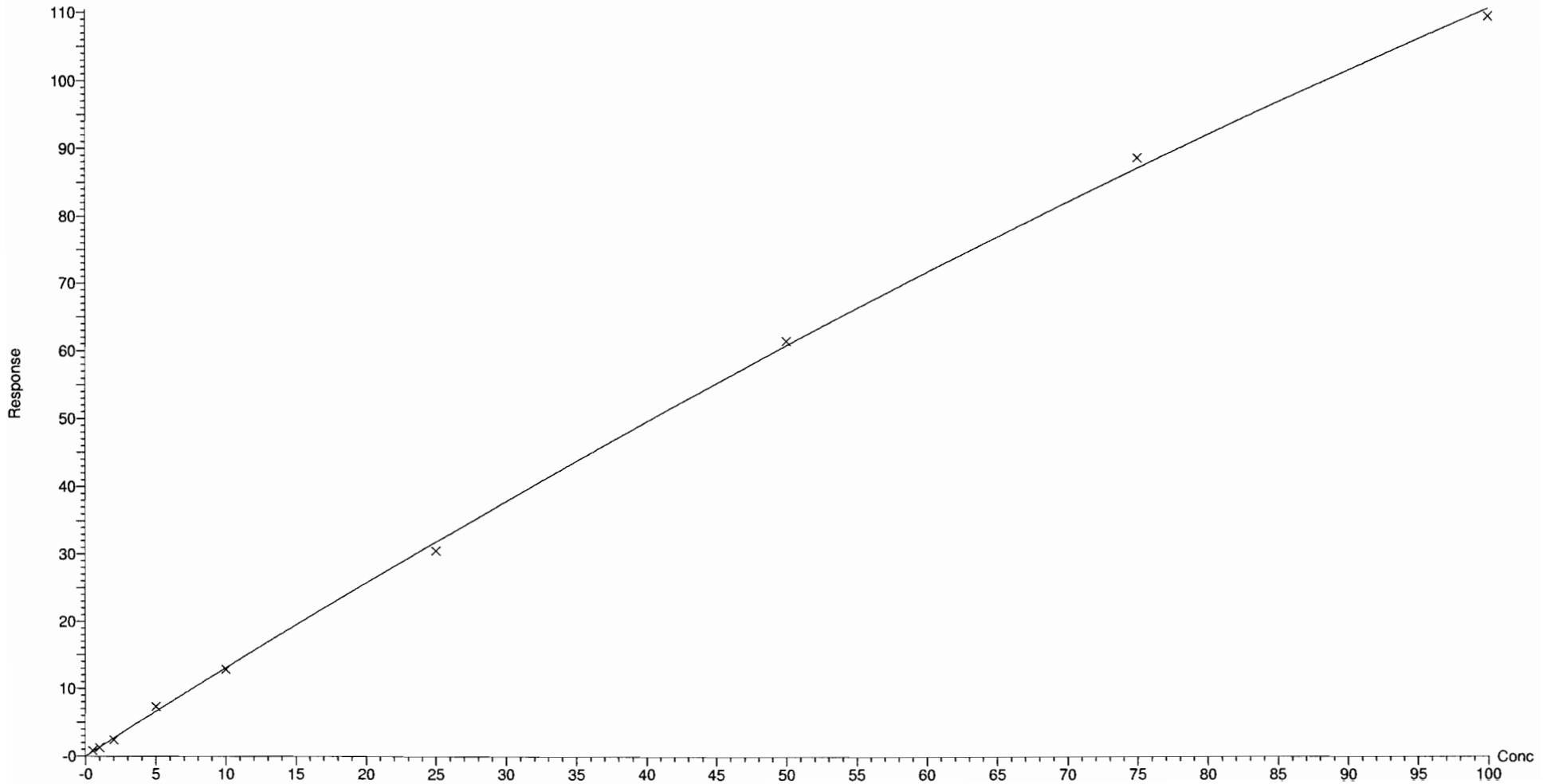
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.999017$

Calibration curve: $-0.00224398 * x^2 + 1.32908 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

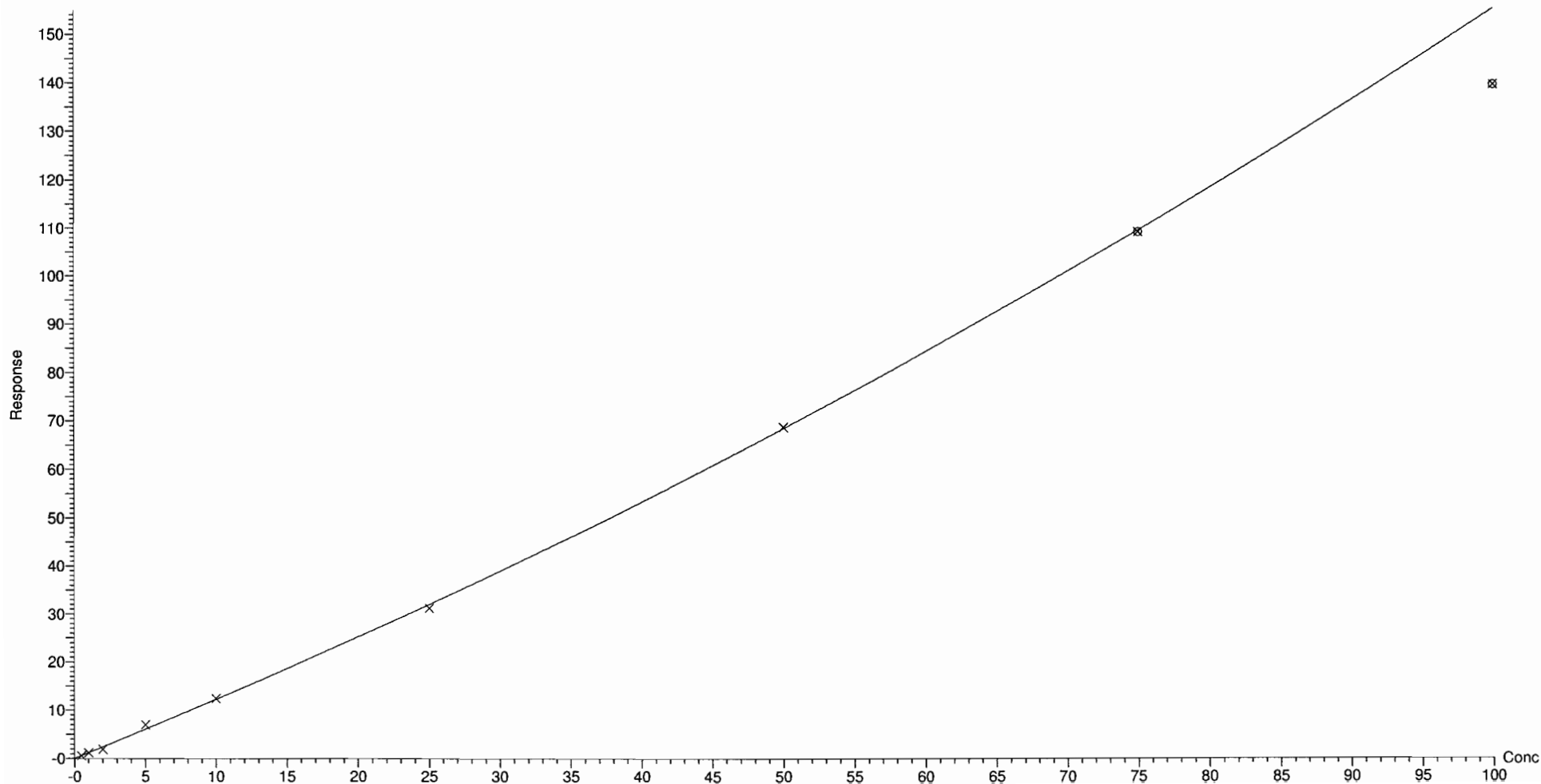
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.997720$

Calibration curve: $0.0036104 * x^2 + 1.18837 * x$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

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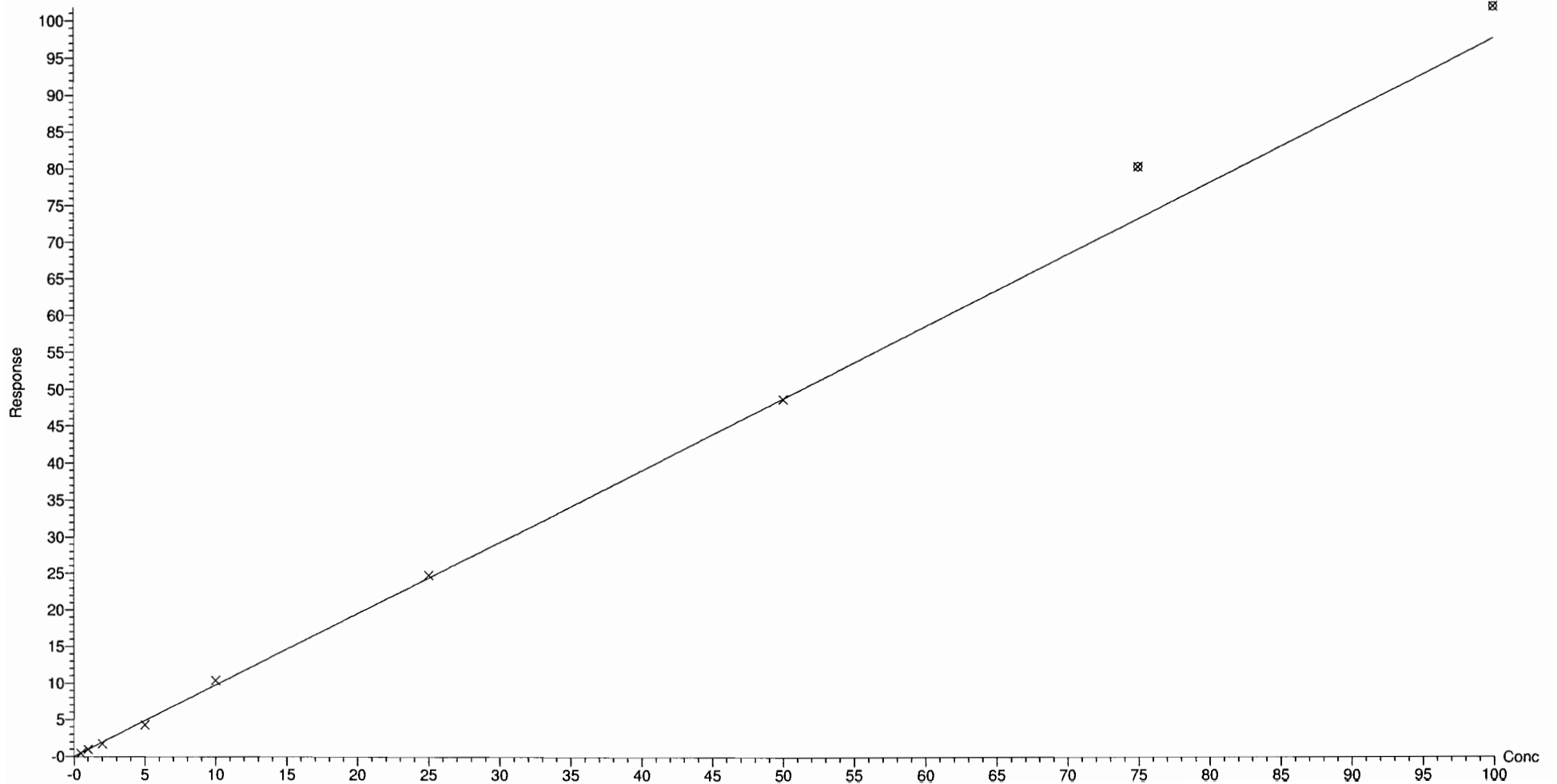
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998054$

Calibration curve: $0.975871 * x$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

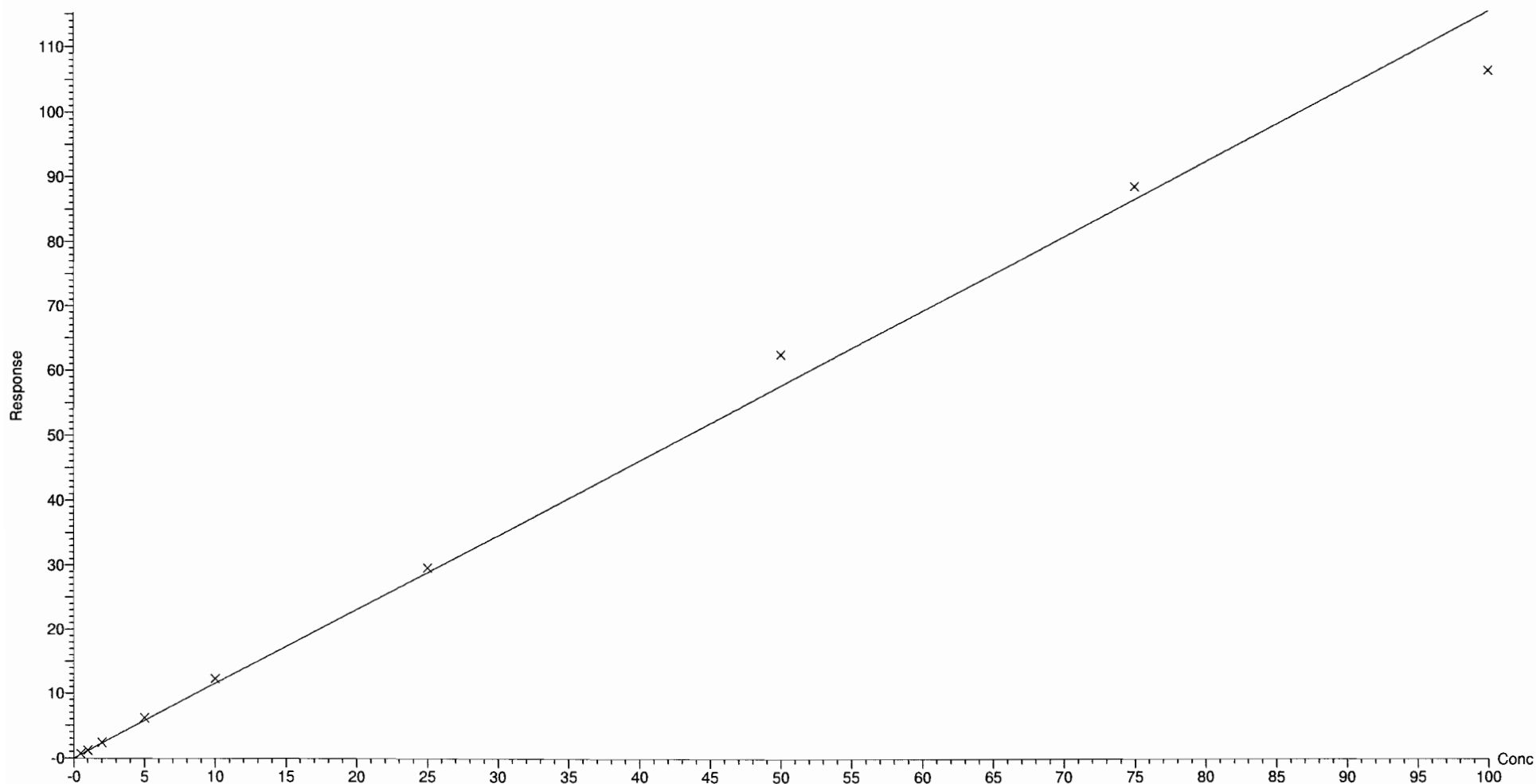
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
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Compound name: PFUnA
Coefficient of Determination: $R^2 = 0.995450$
Calibration curve: $1.15303 * x$
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

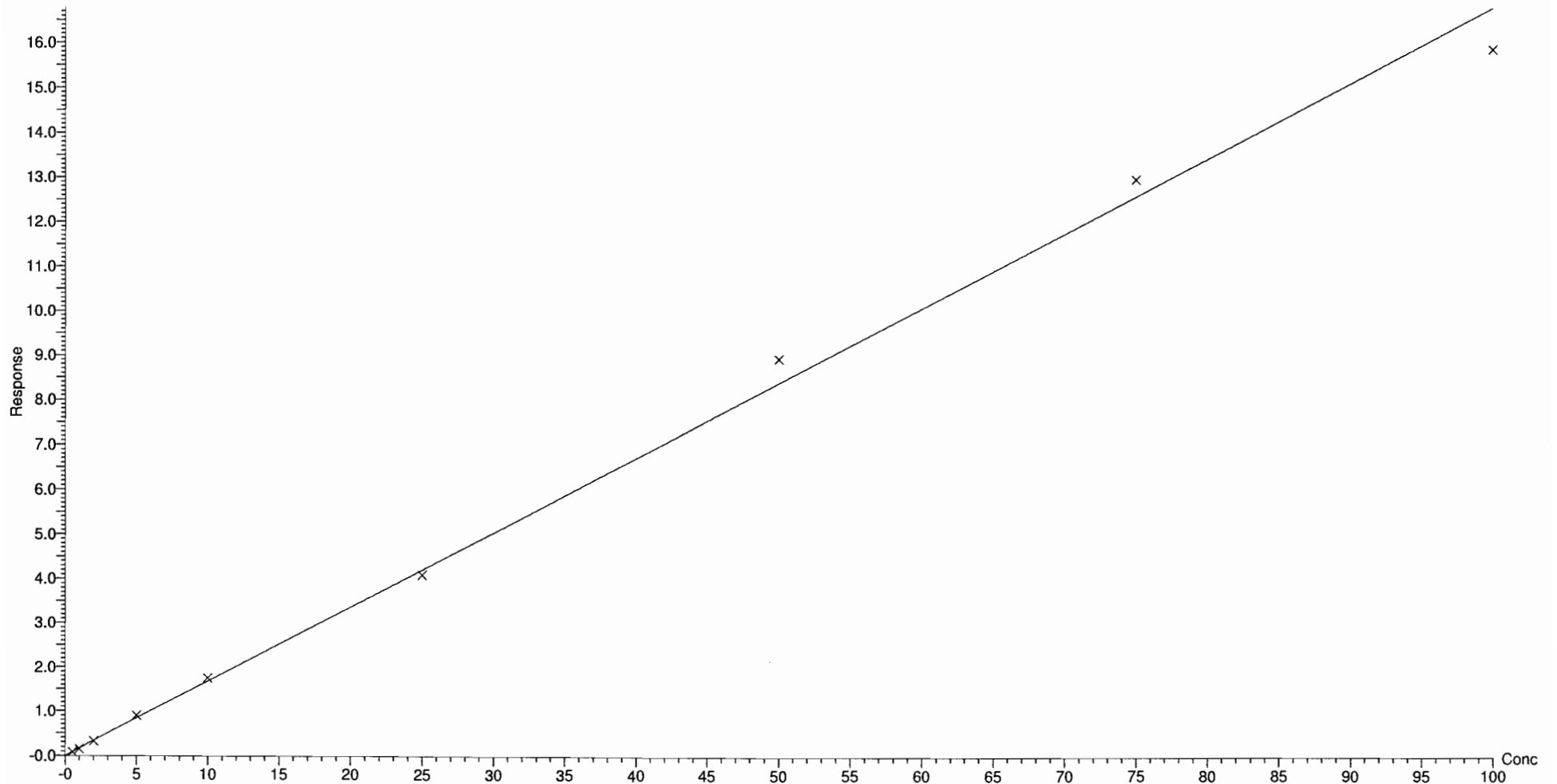
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.997346$

Calibration curve: $0.167843 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

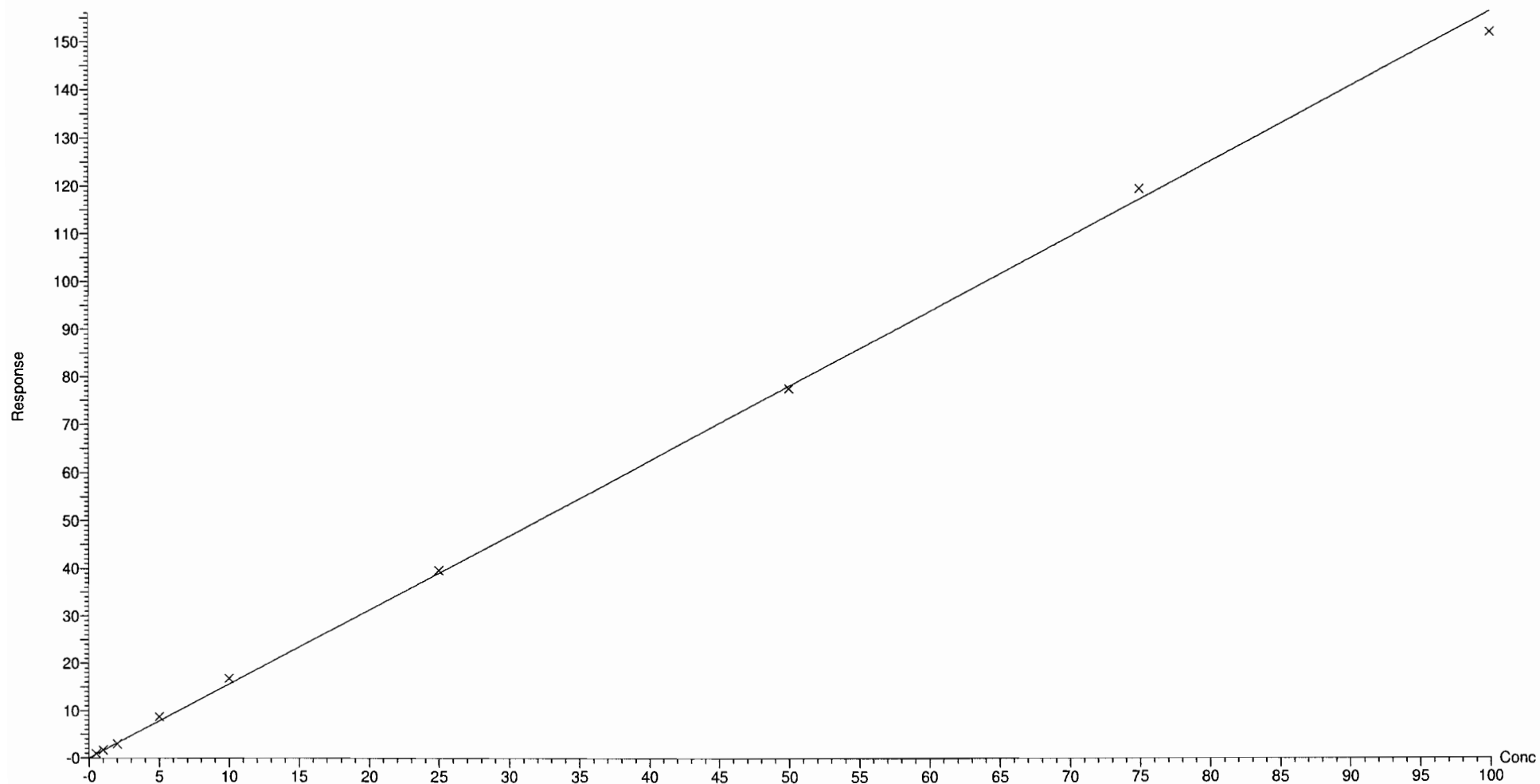
Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.999002$

Calibration curve: $1.56071 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:17:53 Pacific Standard Time

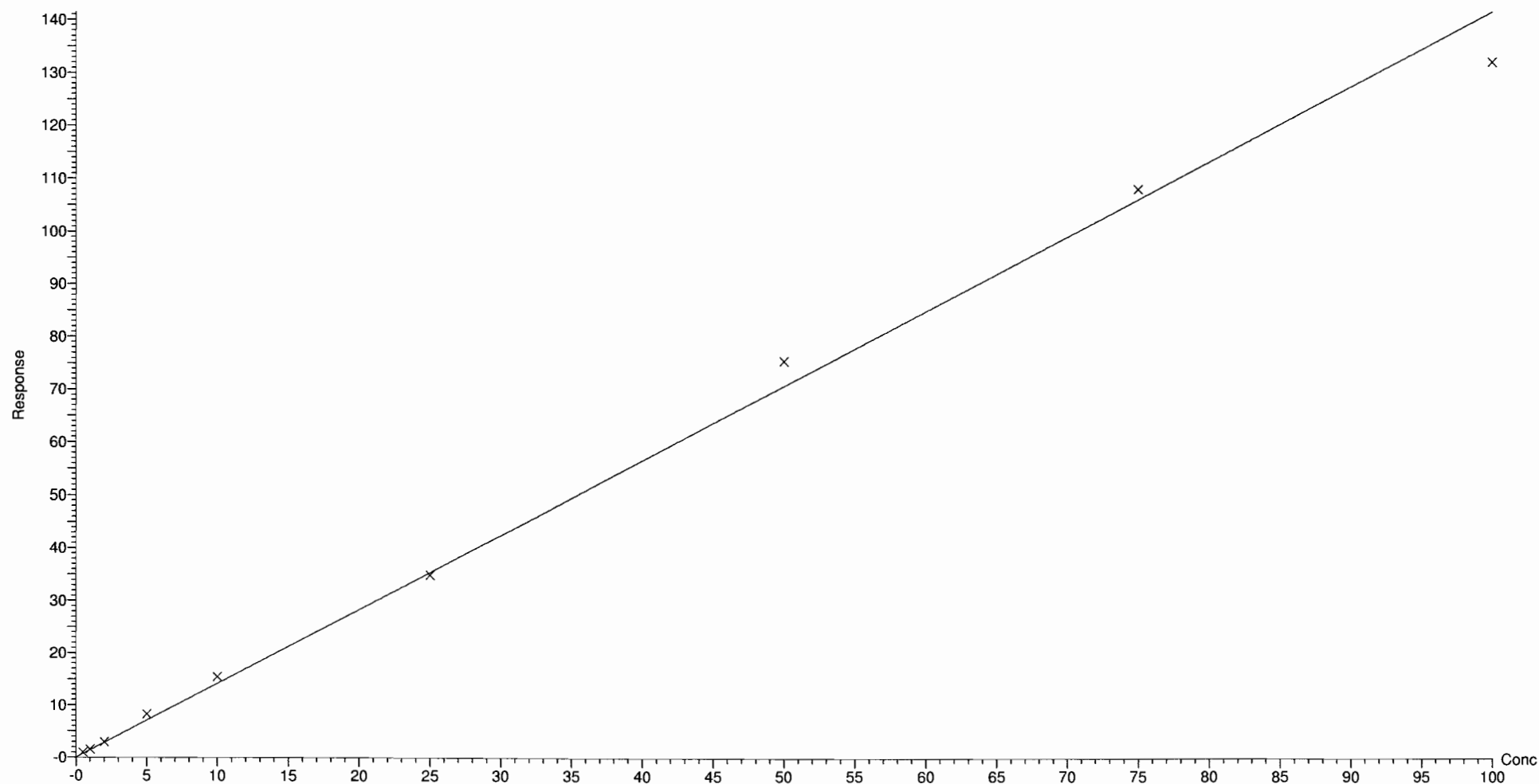
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.995873$

Calibration curve: $1.41495 * x$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

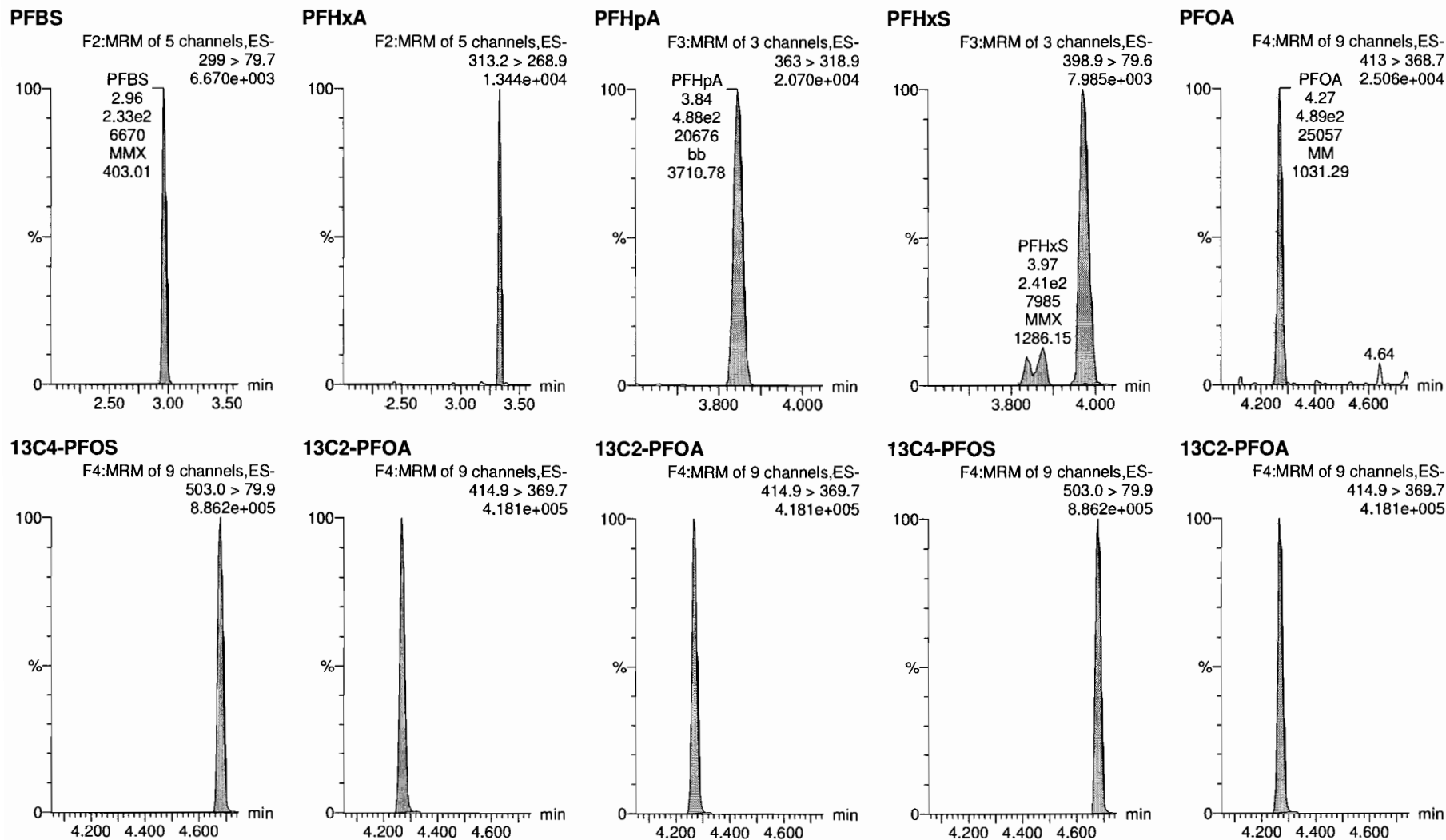


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Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

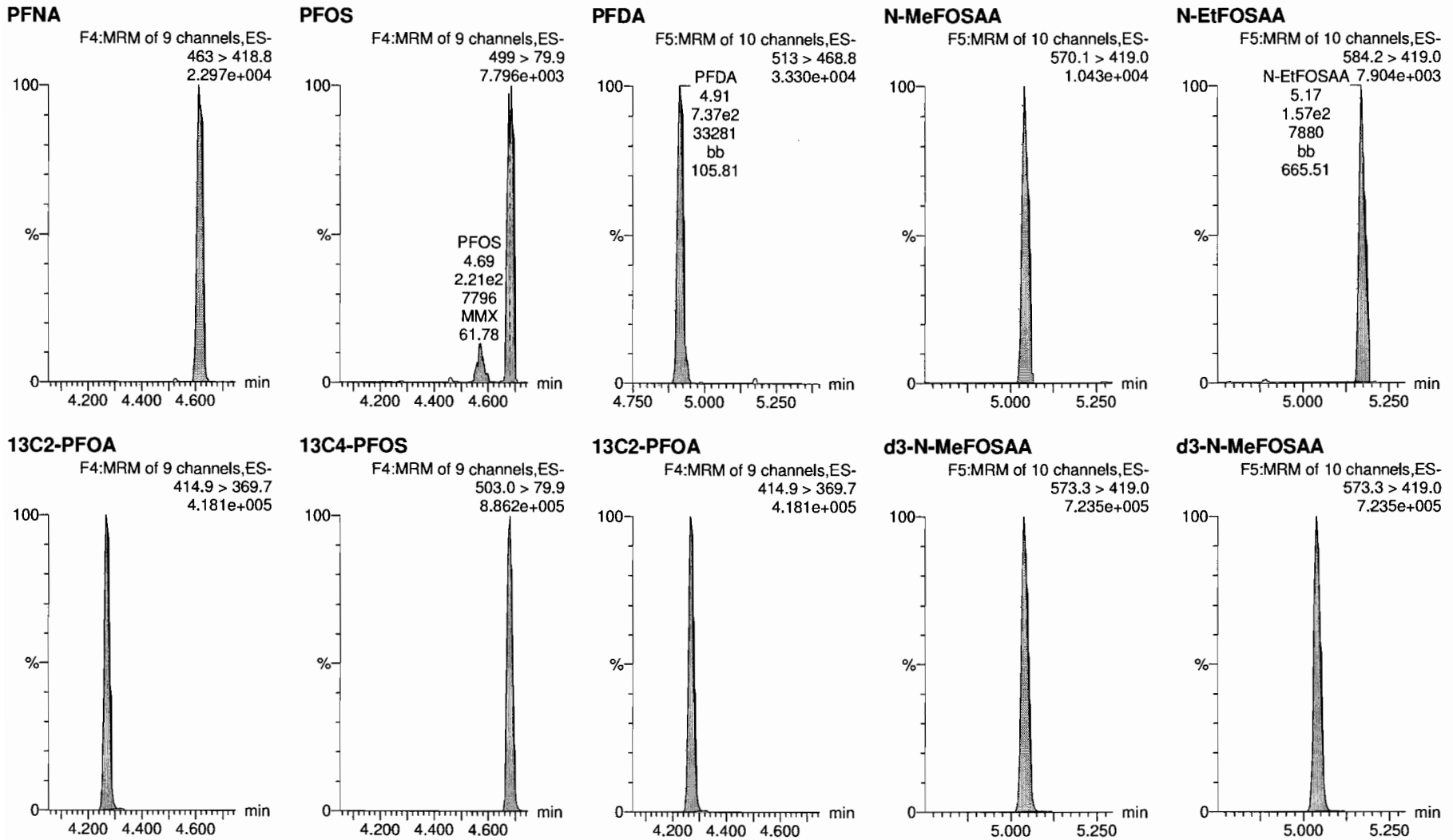
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
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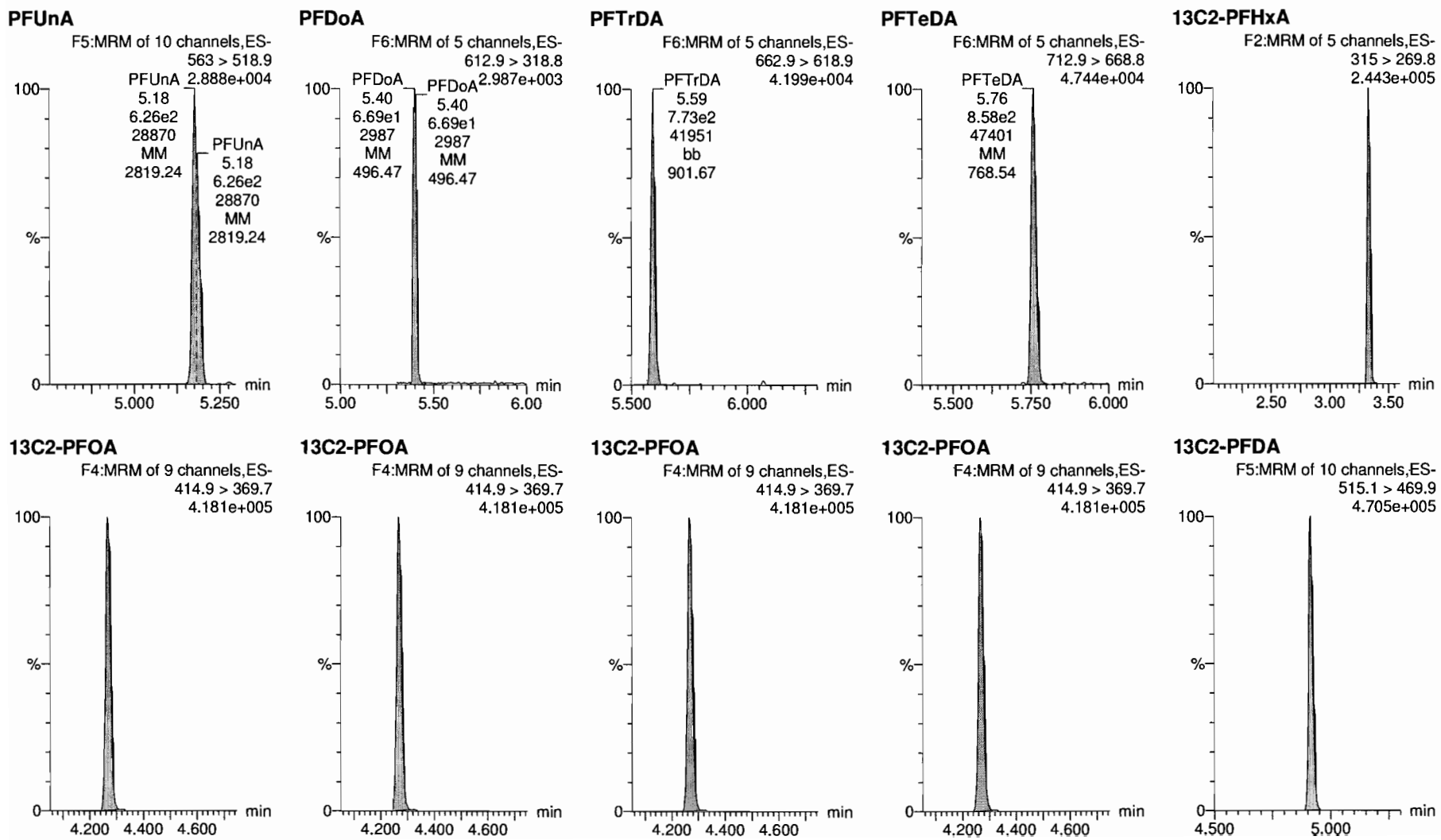
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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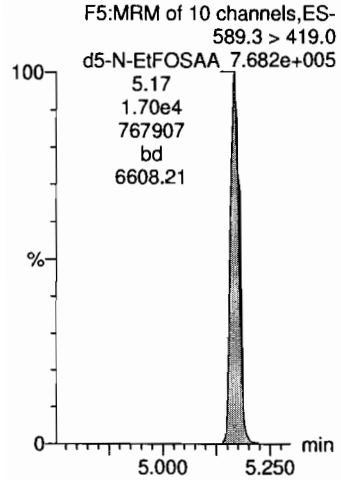
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Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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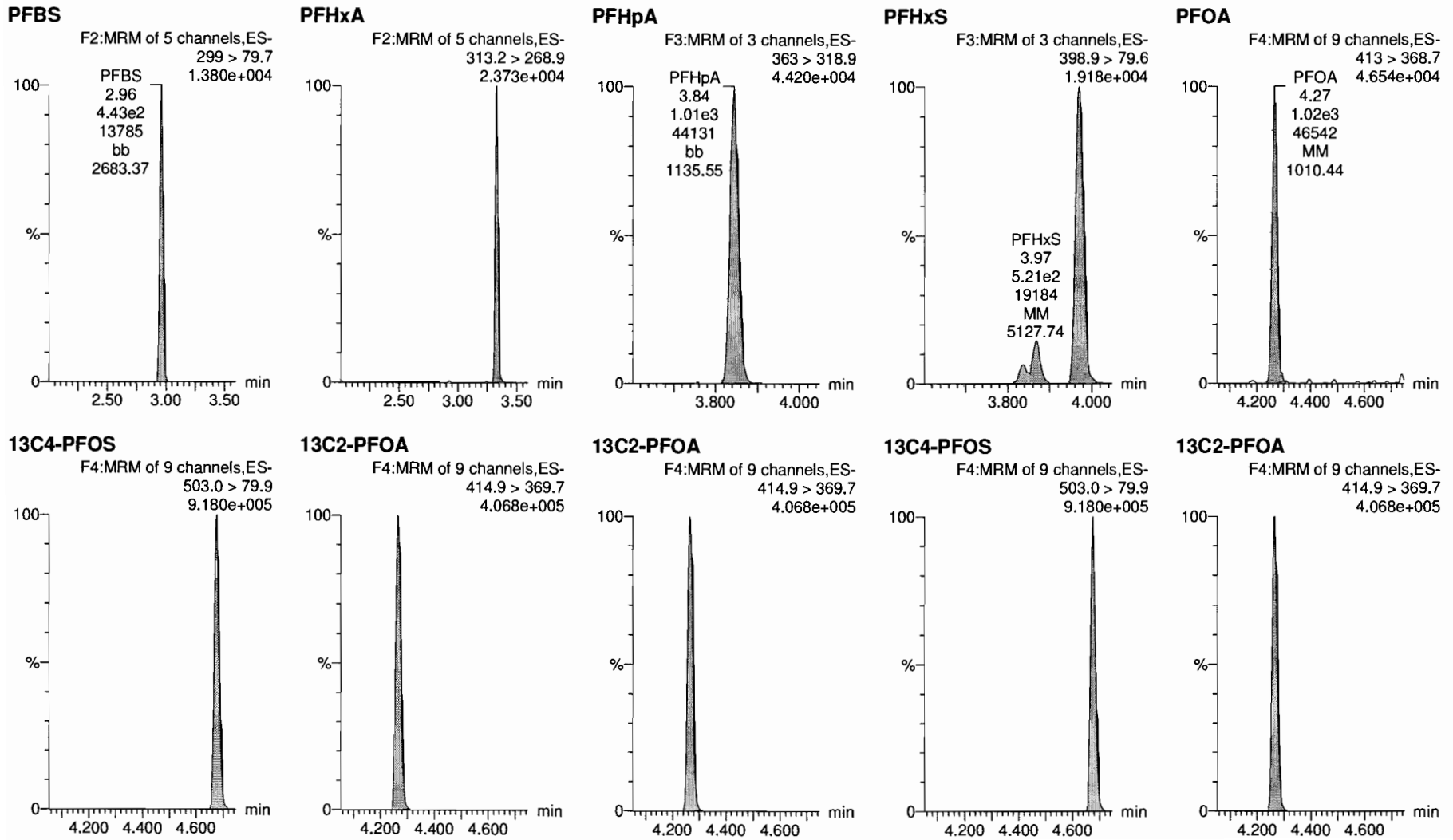
d5-N-EtFOSAA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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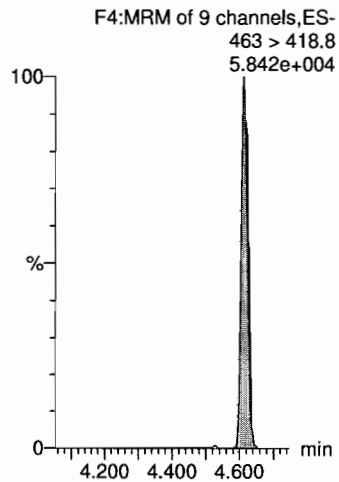


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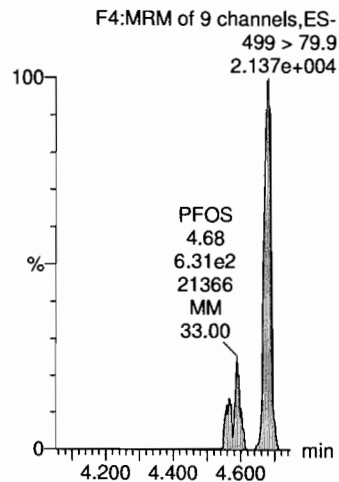
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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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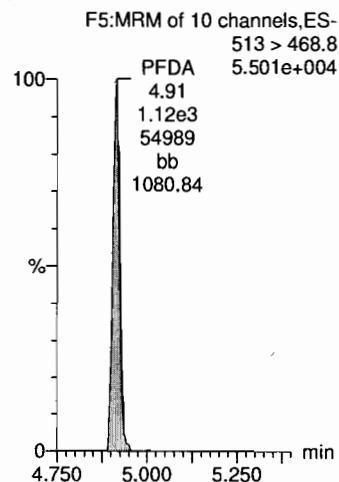
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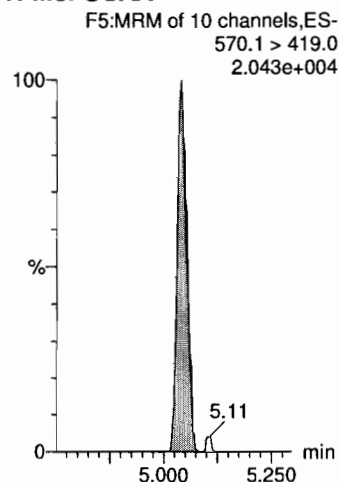
PFOS



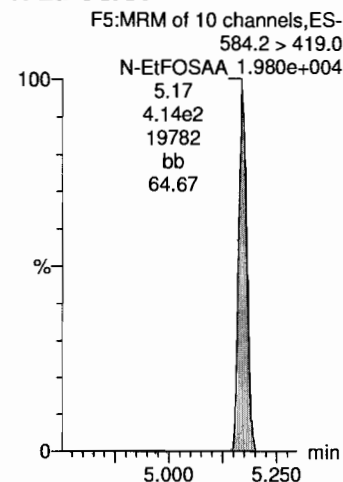
PFDA



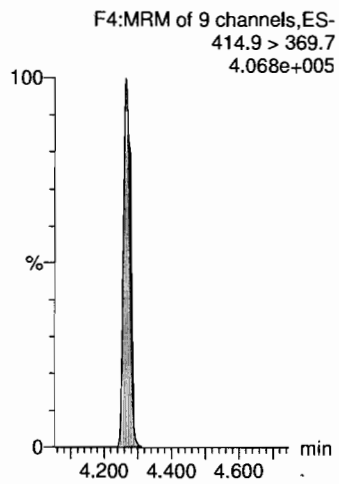
N-MeFOSAA



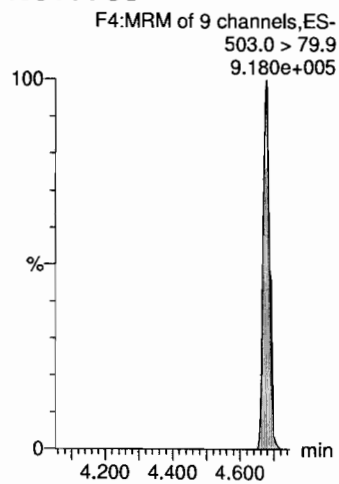
N-EtFOSAA



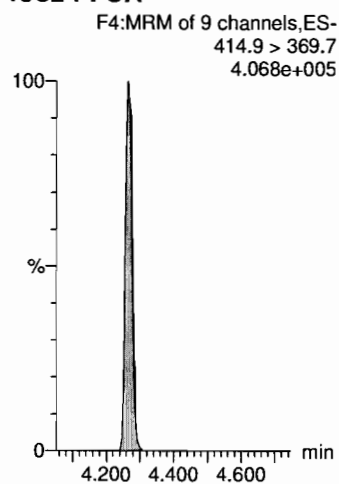
13C2-PFOA



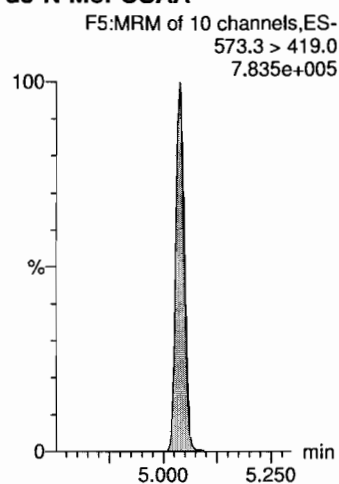
13C4-PFOS



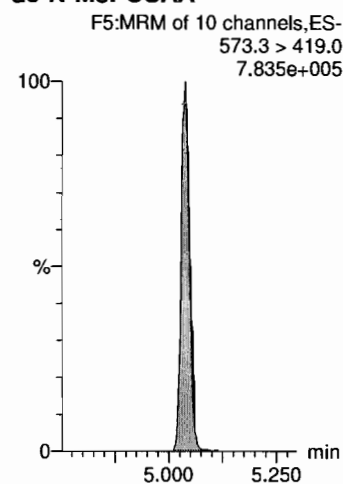
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA

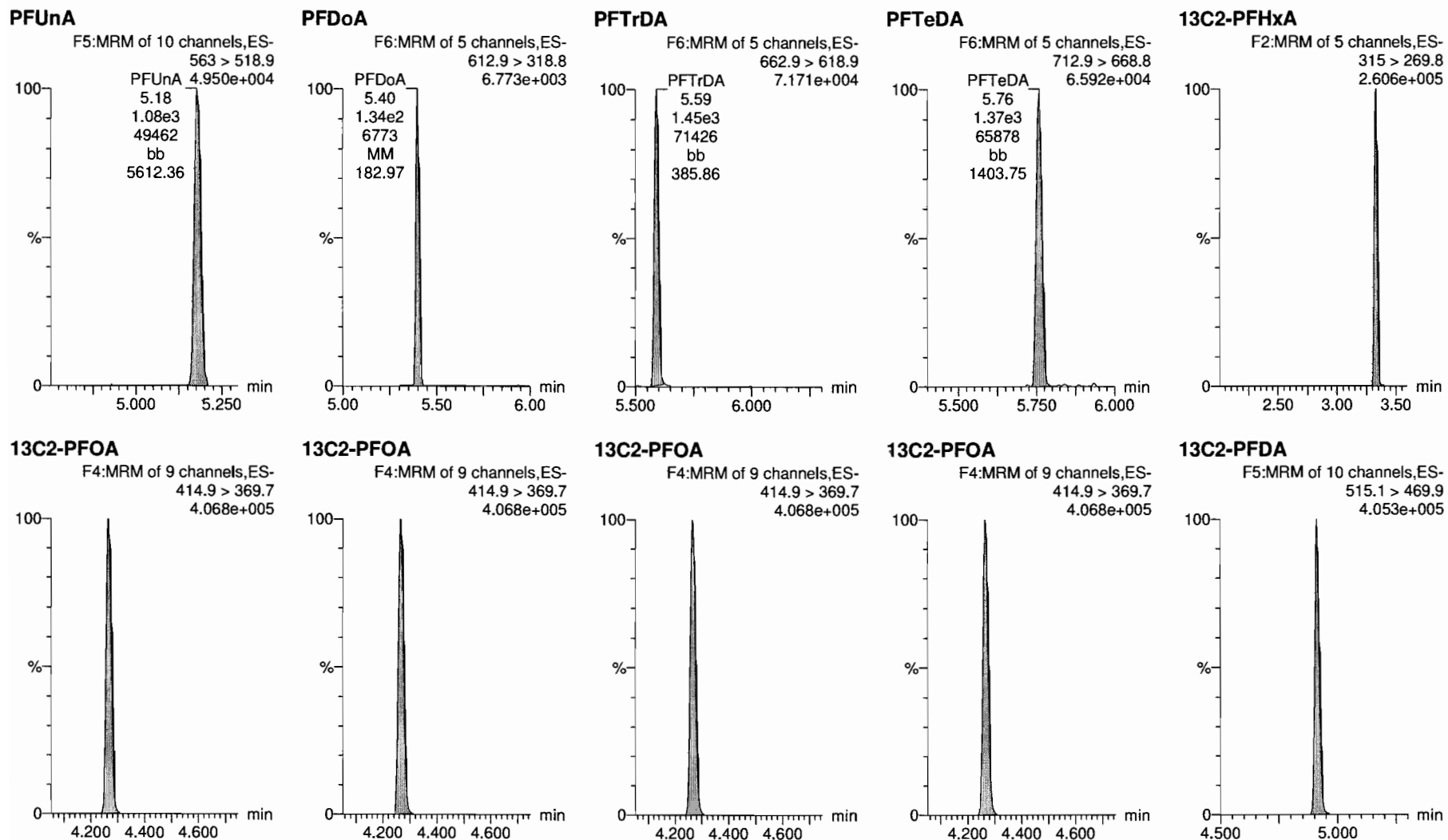


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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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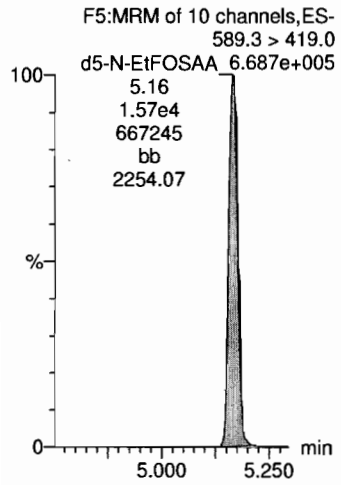


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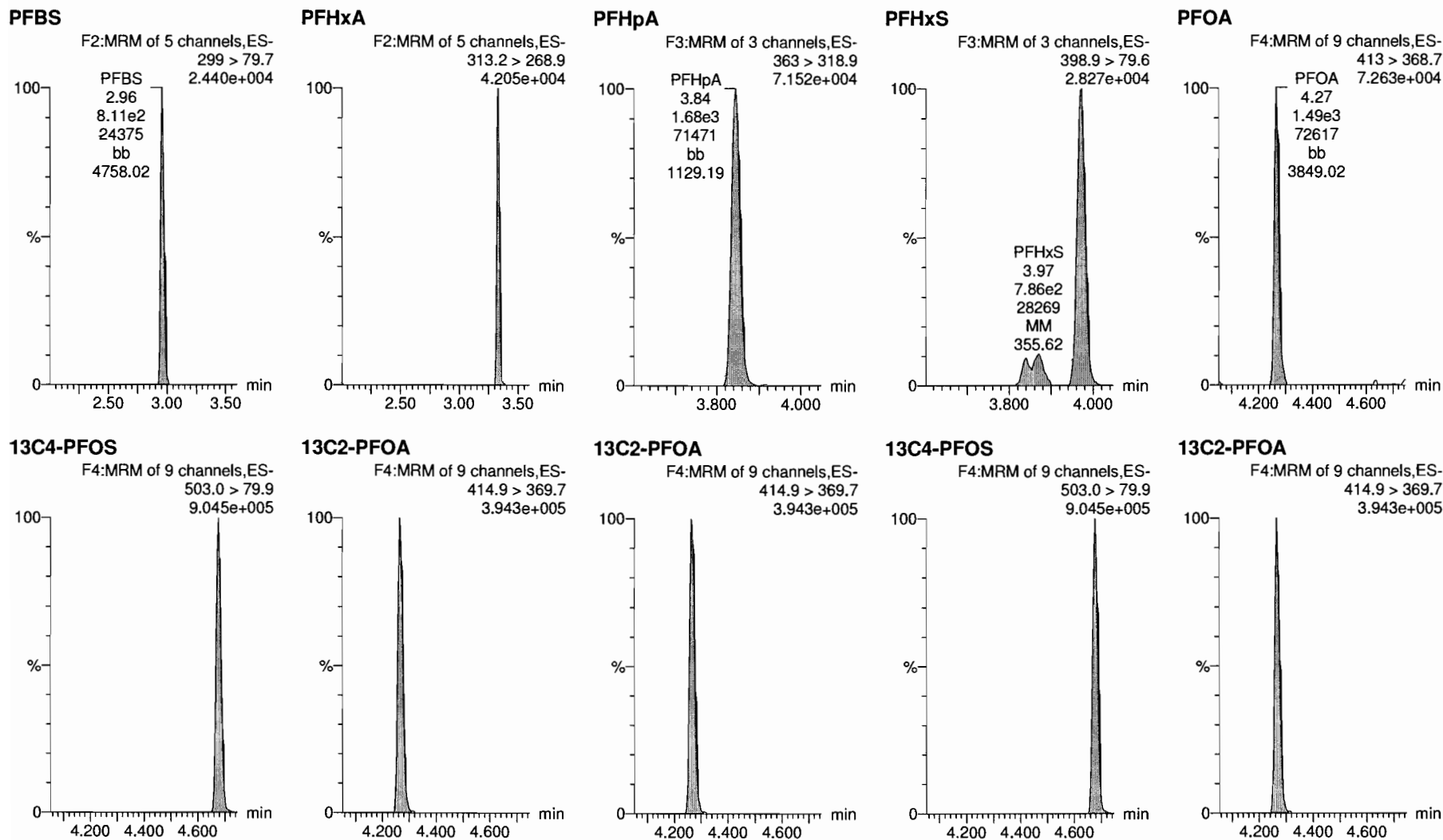
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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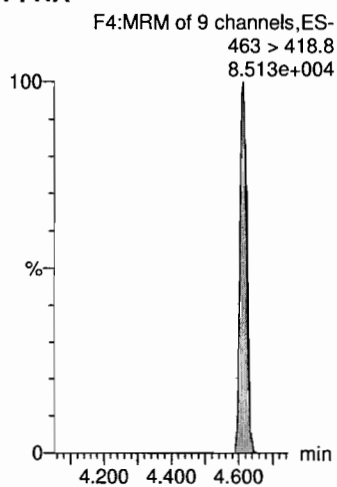
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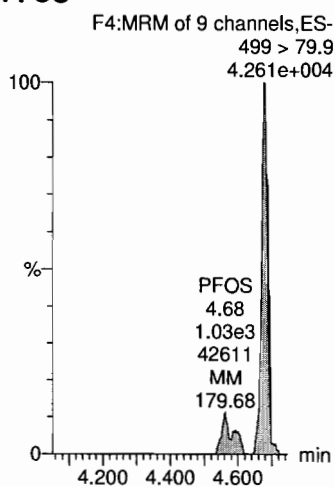
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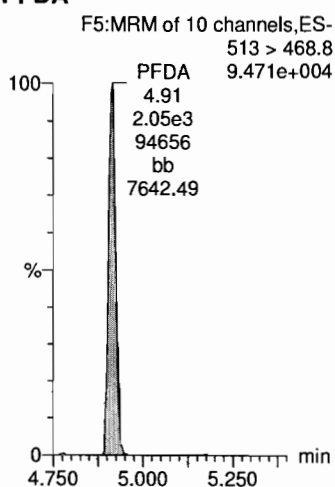
PFNA



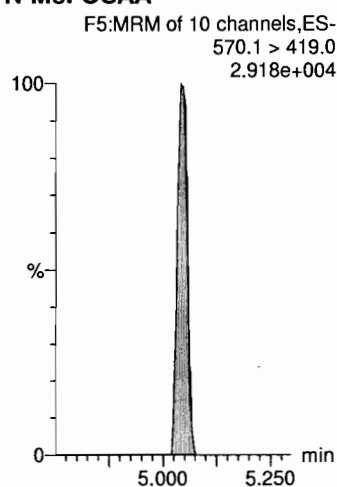
PFOS



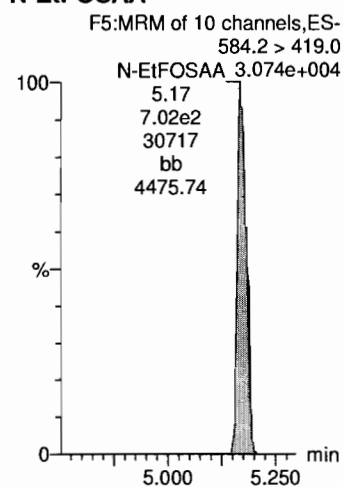
PFDA



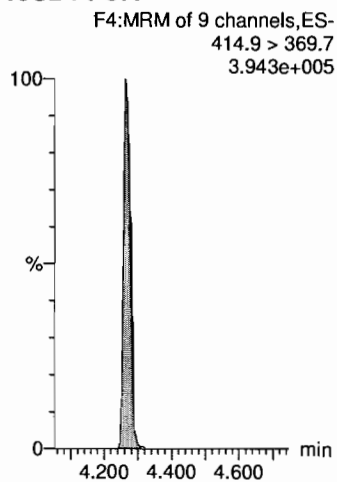
N-MeFOSAA



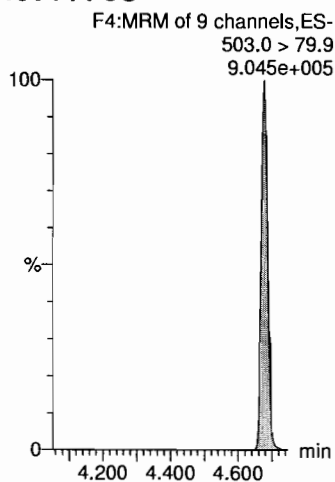
N-EtFOSAA



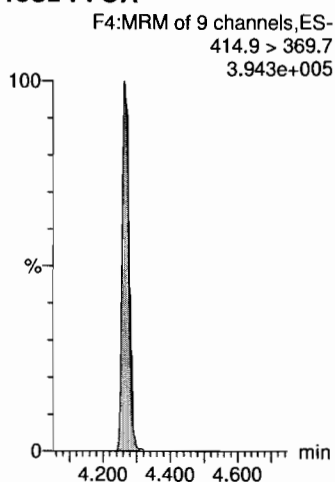
13C2-PFOA



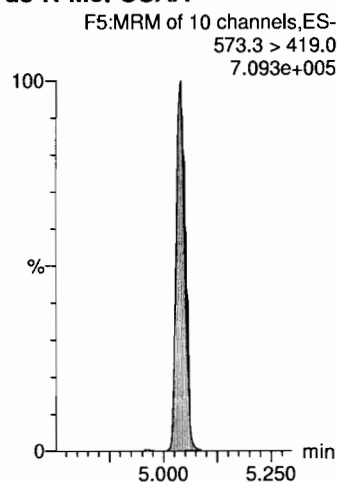
13C4-PFOS



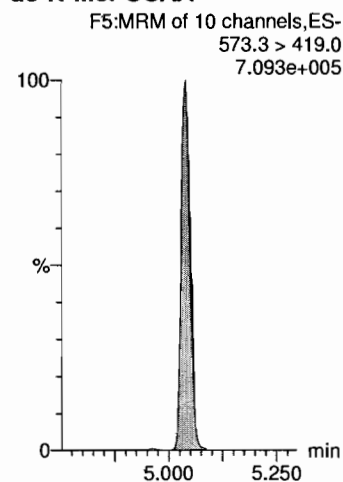
13C2-PFOA



d3-N-MeFOSAA



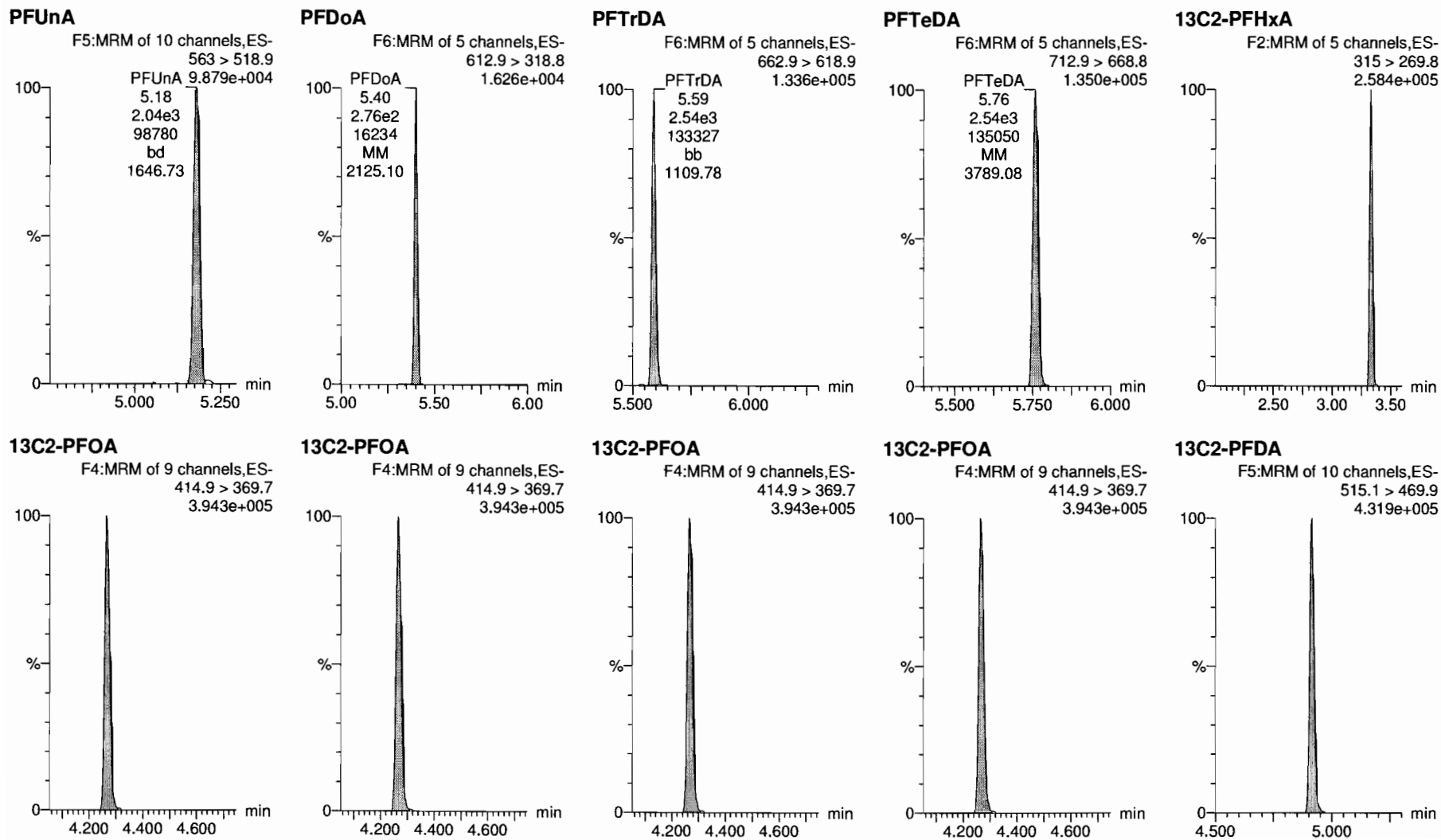
d3-N-MeFOSAA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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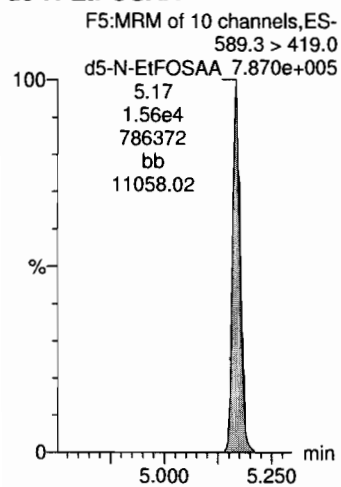
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Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time

Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

Name: 180308G4_4, Date: 08-Mar-2018, Time: 18:28:01, ID: ST180308G4-3 PFC CS-1 537 18C0806, Description: PFC CS-1 537 18C0806

d5-N-EtFOSAA



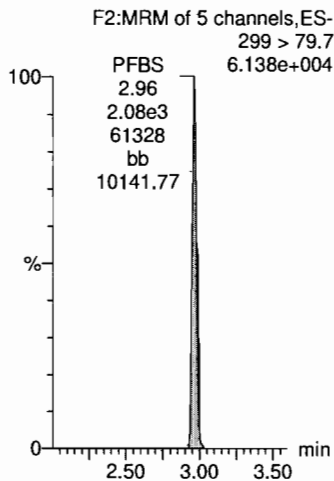
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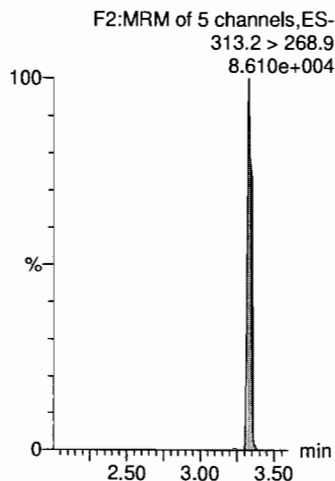
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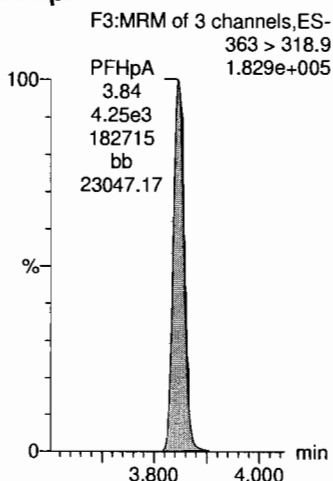
PFBS



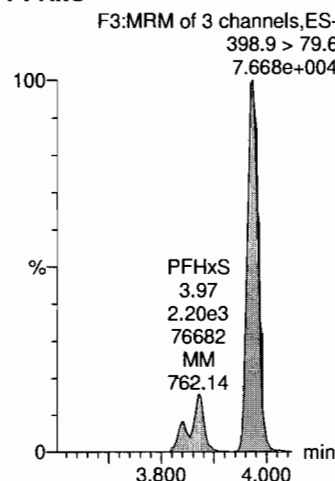
PFHxA



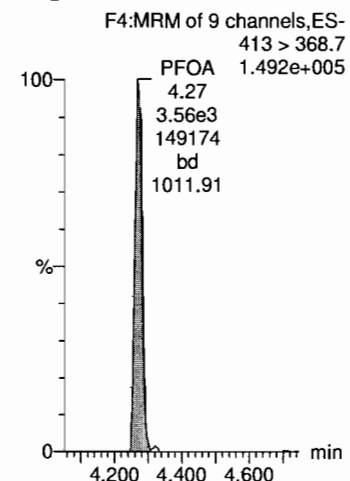
PFHpA



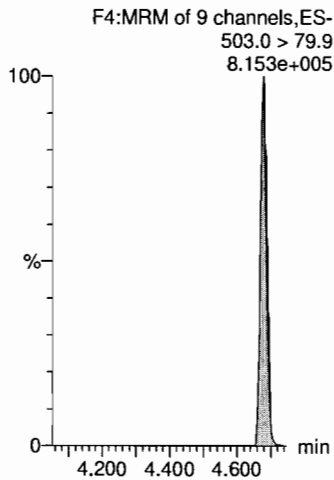
PFHxS



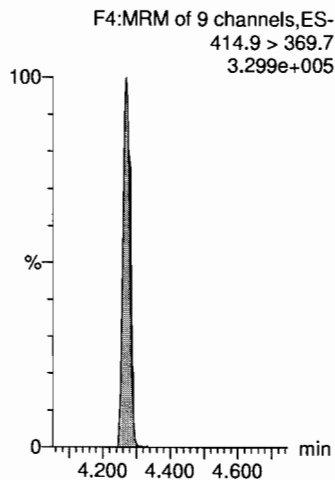
PFOA



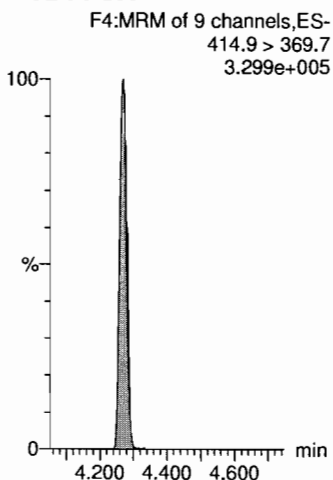
13C4-PFOS



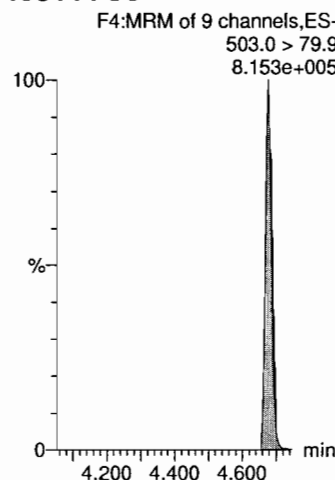
13C2-PFOA



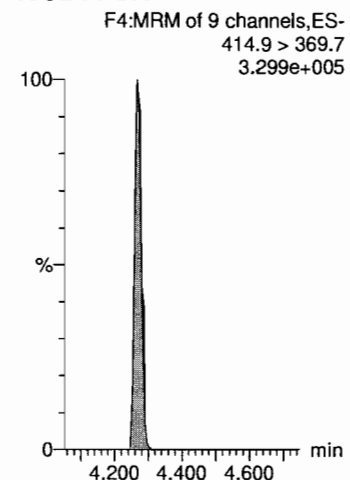
13C2-PFOA



13C4-PFOS



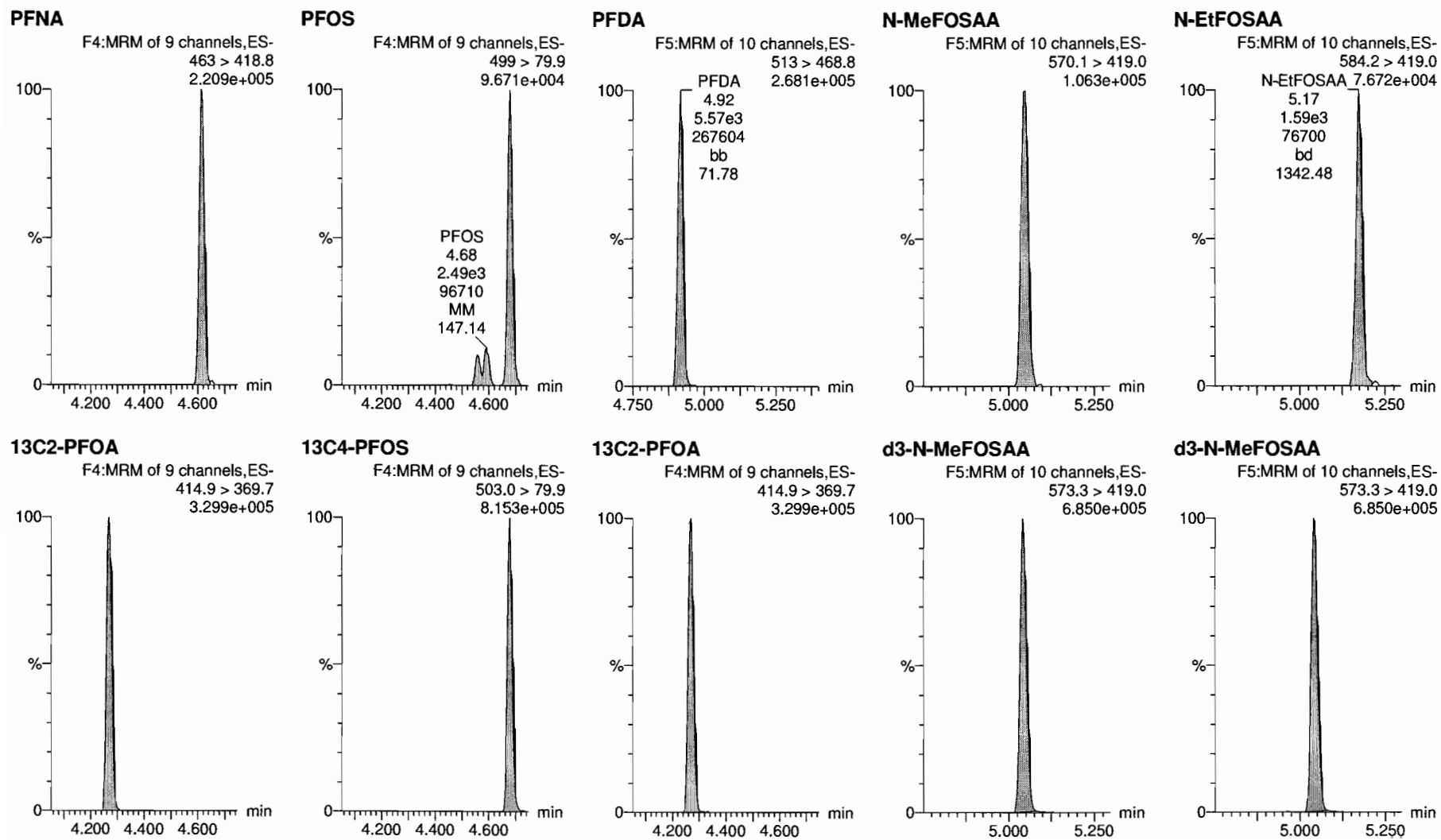
13C2-PFOA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

Name: 180308G4_5, Date: 08-Mar-2018, Time: 18:40:18, ID: ST180308G4-4 PFC CS0 537 18B2303, Description: PFC CS0 537 18B2303

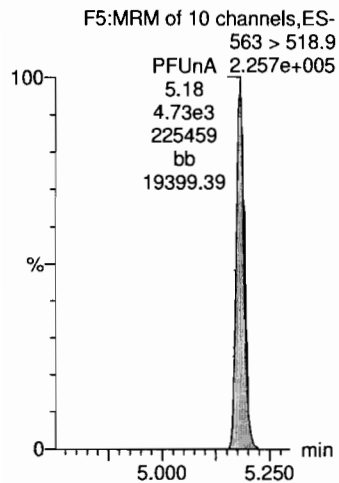


Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

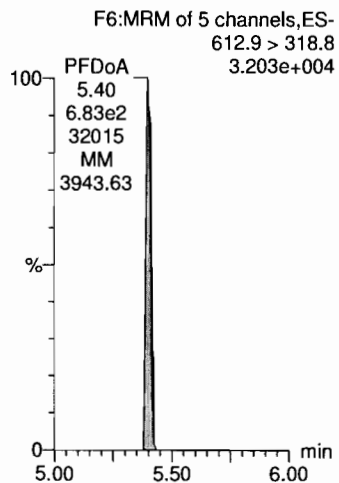
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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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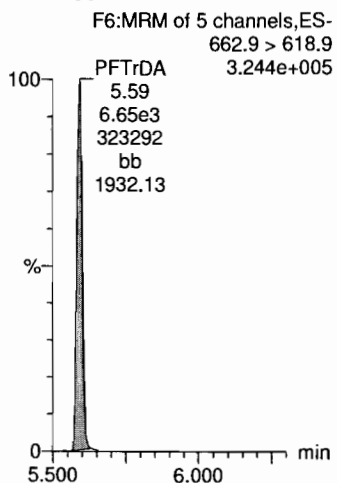
PFUnA



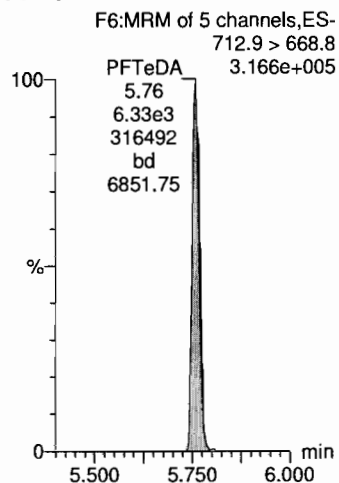
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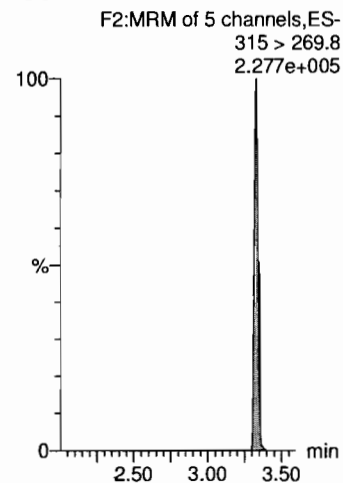
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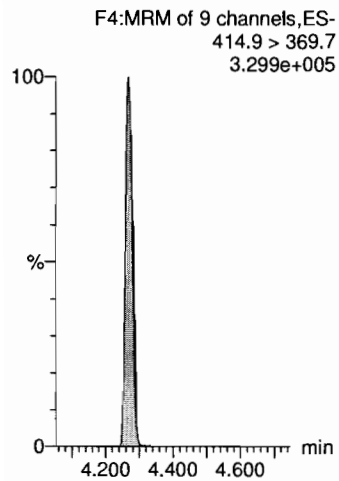
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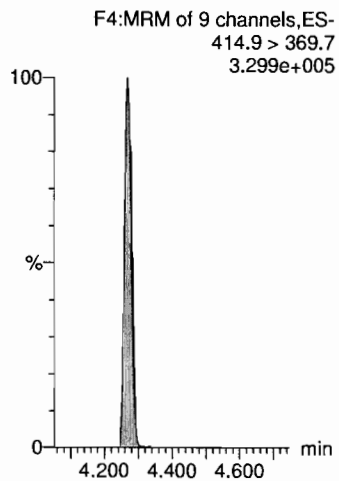
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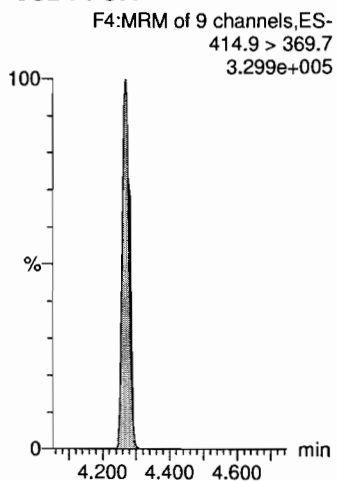
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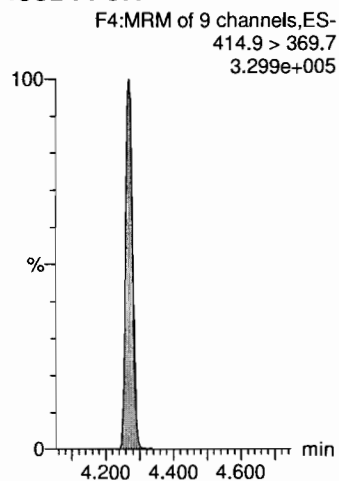
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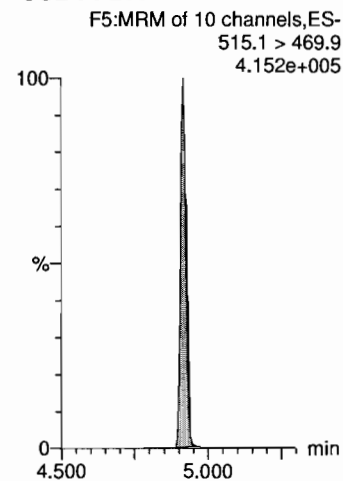
13C2-PFOA



13C2-PFOA



13C2-PFDA



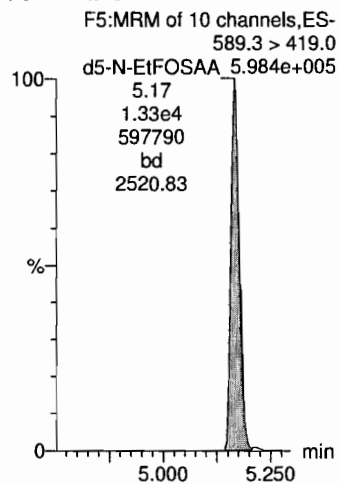
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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

Name: 180308G4_5, Date: 08-Mar-2018, Time: 18:40:18, ID: ST180308G4-4 PFC CS0 537 18B2303, Description: PFC CS0 537 18B2303

d5-N-EtFOSAA

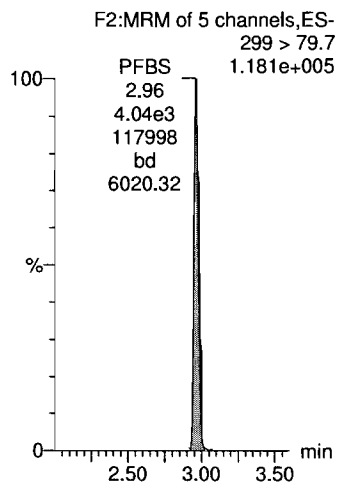


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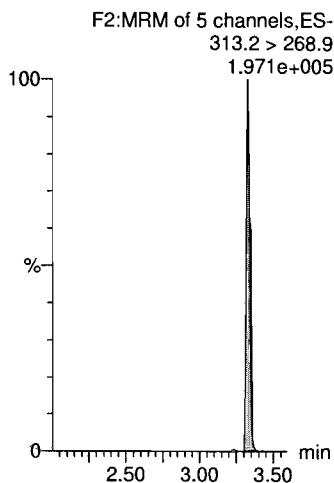
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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

Name: 180308G4_6, Date: 08-Mar-2018, Time: 18:52:44, ID: ST180308G4-5 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304

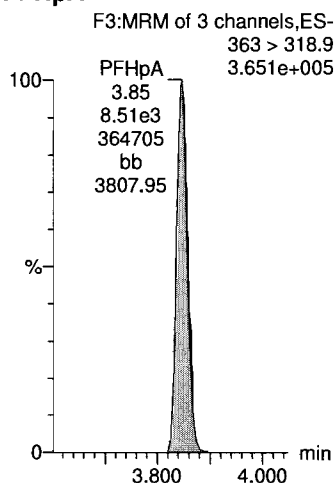
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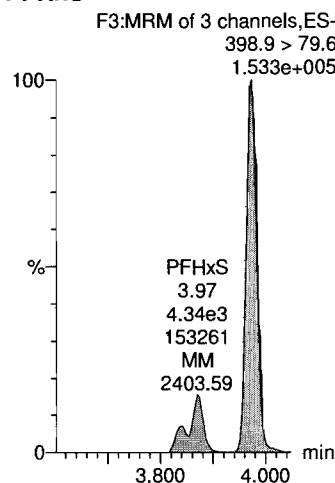
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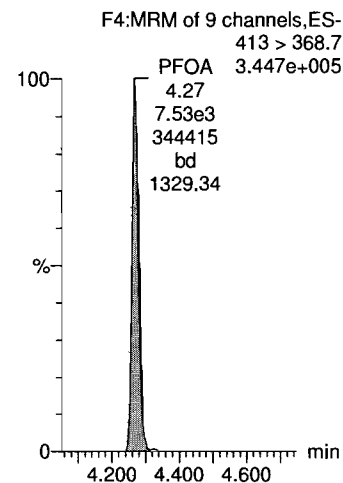
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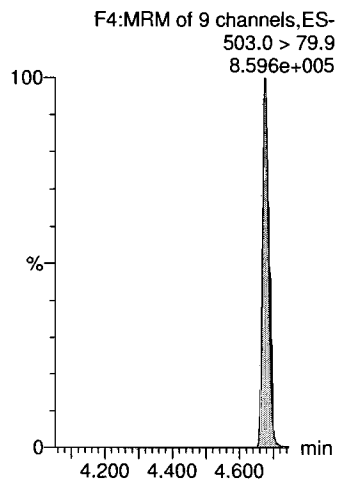
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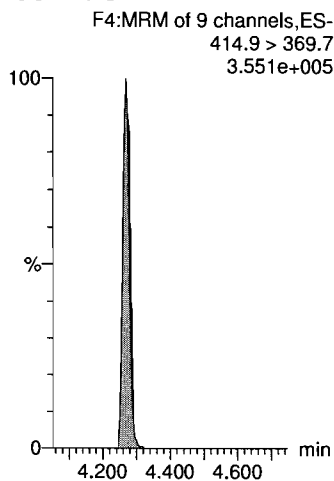
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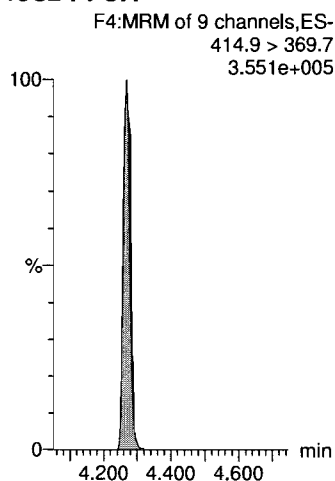
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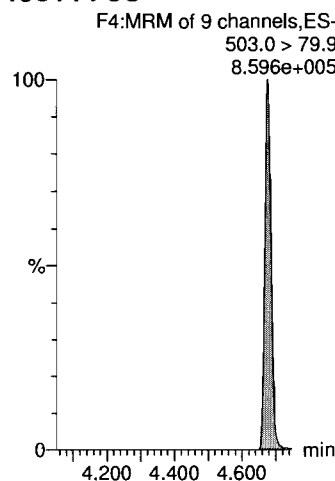
13C2-PFOA



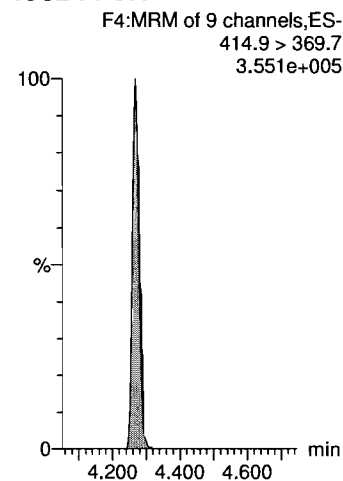
13C2-PFOA



13C4-PFOS



13C2-PFOA

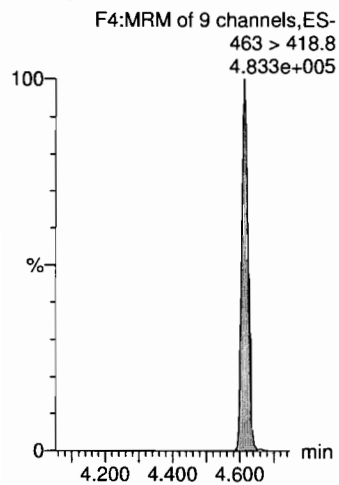


Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

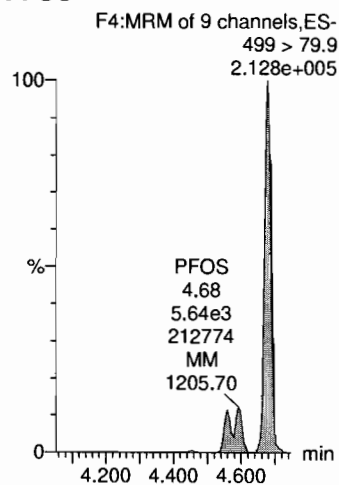
Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

Name: 180308G4_6, Date: 08-Mar-2018, Time: 18:52:44, ID: ST180308G4-5 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304

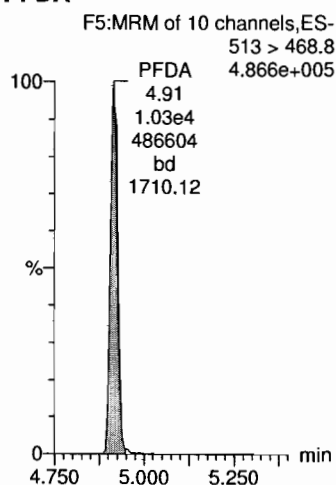
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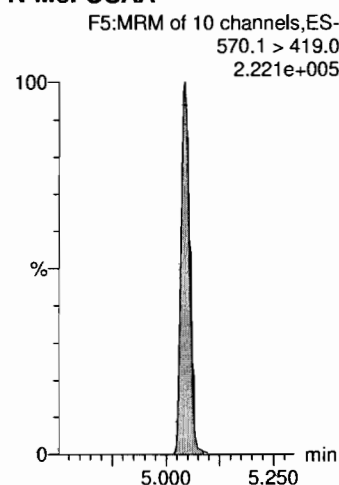
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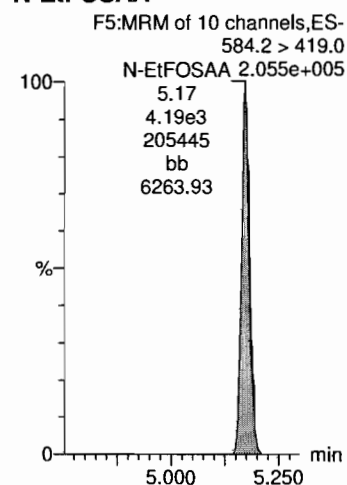
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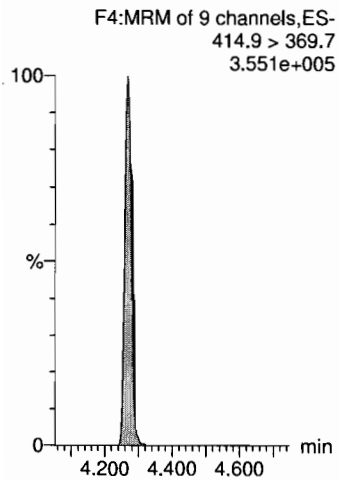
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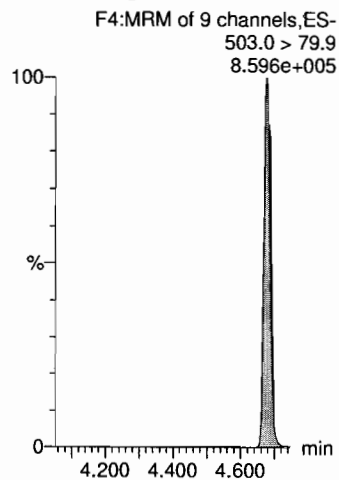
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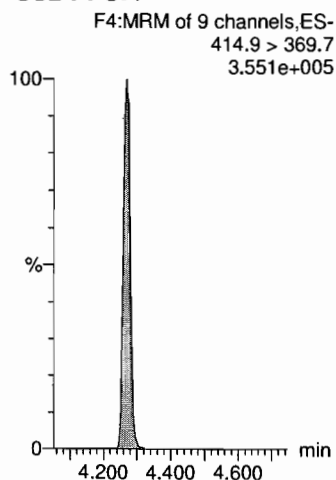
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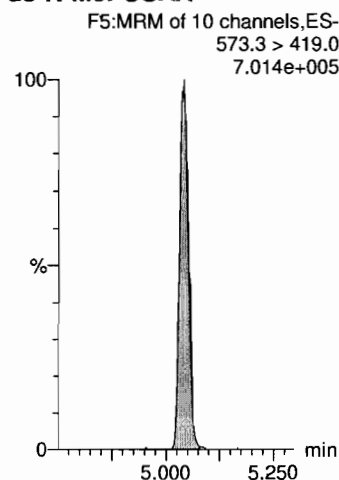
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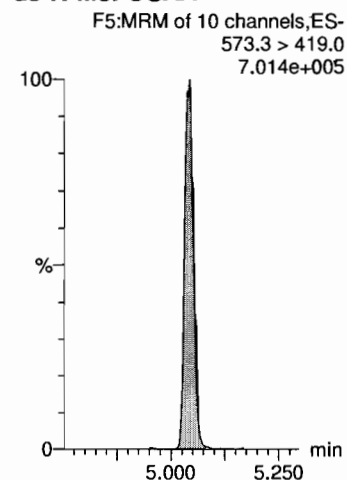
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d3-N-MeFOSAA



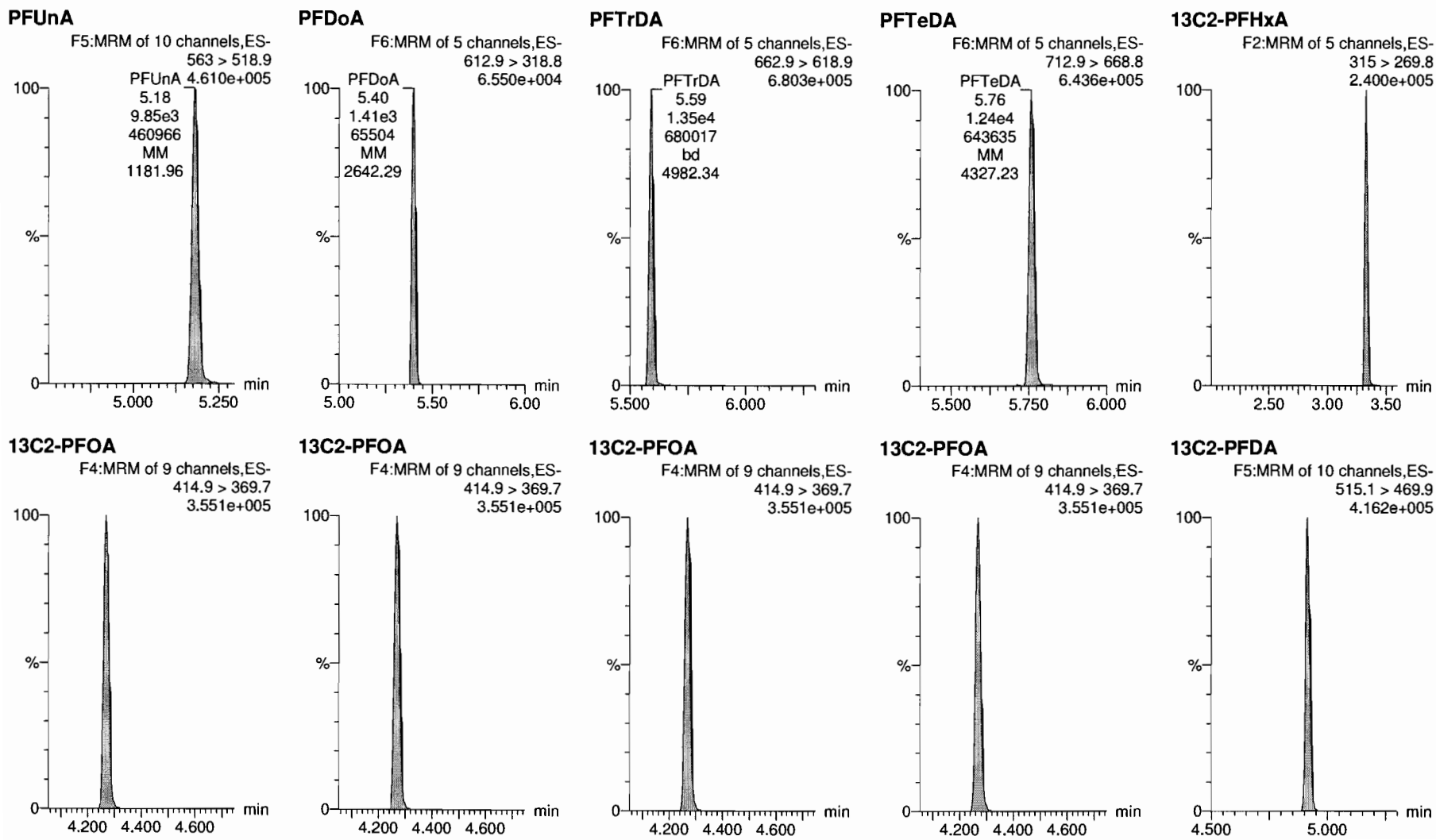
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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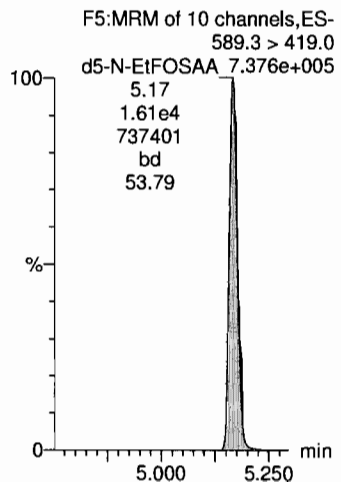
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Name: 180308G4_6, Date: 08-Mar-2018, Time: 18:52:44, ID: ST180308G4-5 PFC CS1 537 18B2304, Description: PFC CS1 537 18B2304

d5-N-EtFOSAA

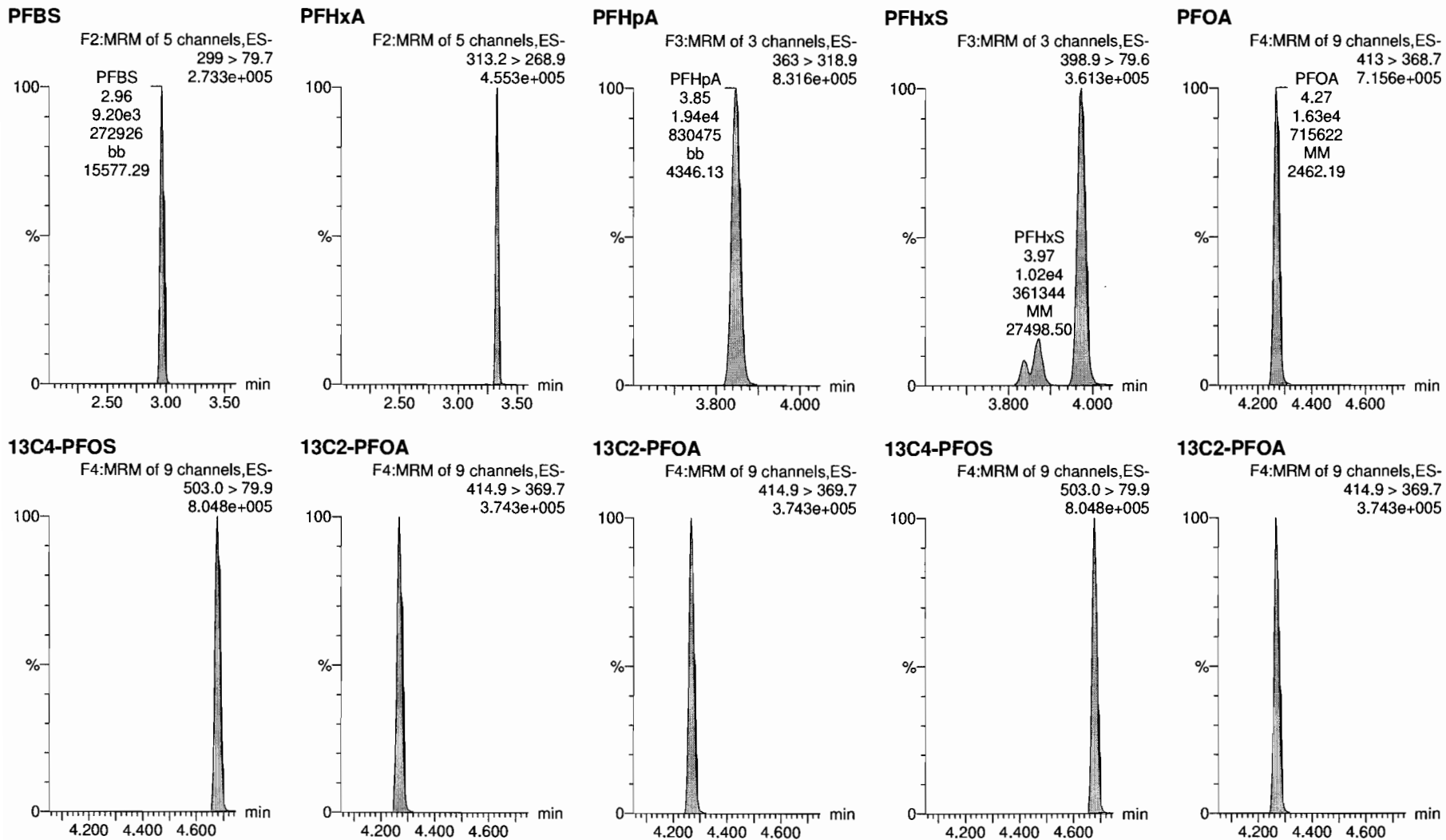


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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

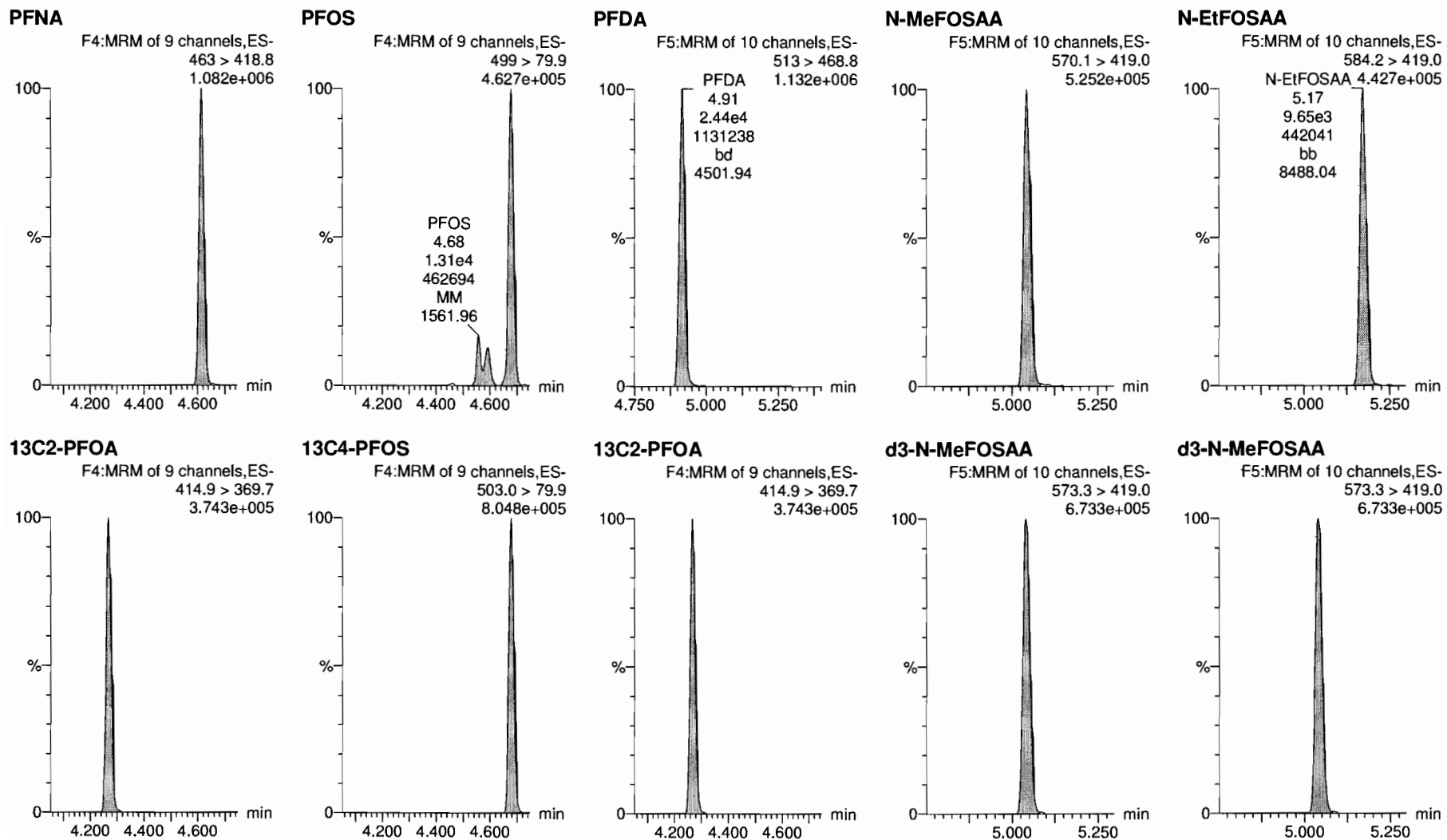
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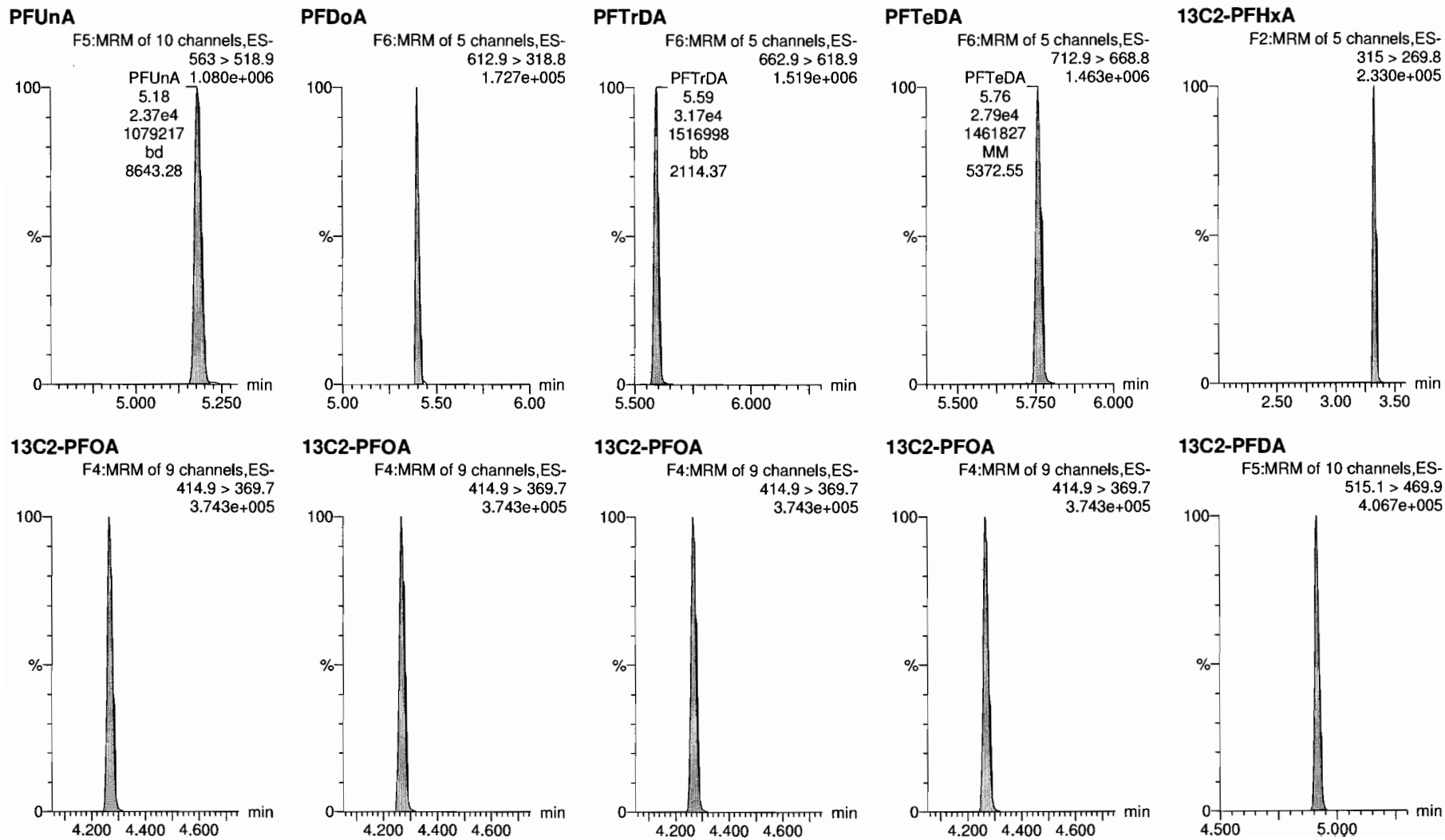
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

Last Altered: Friday, March 09, 2018 10:59:51 Pacific Standard Time
Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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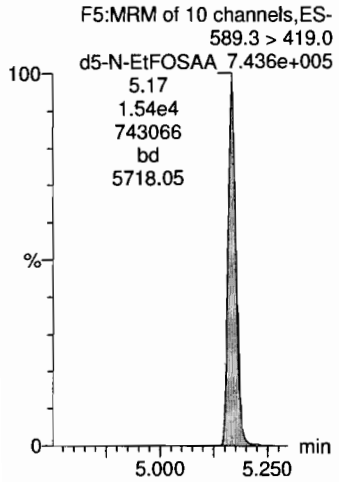
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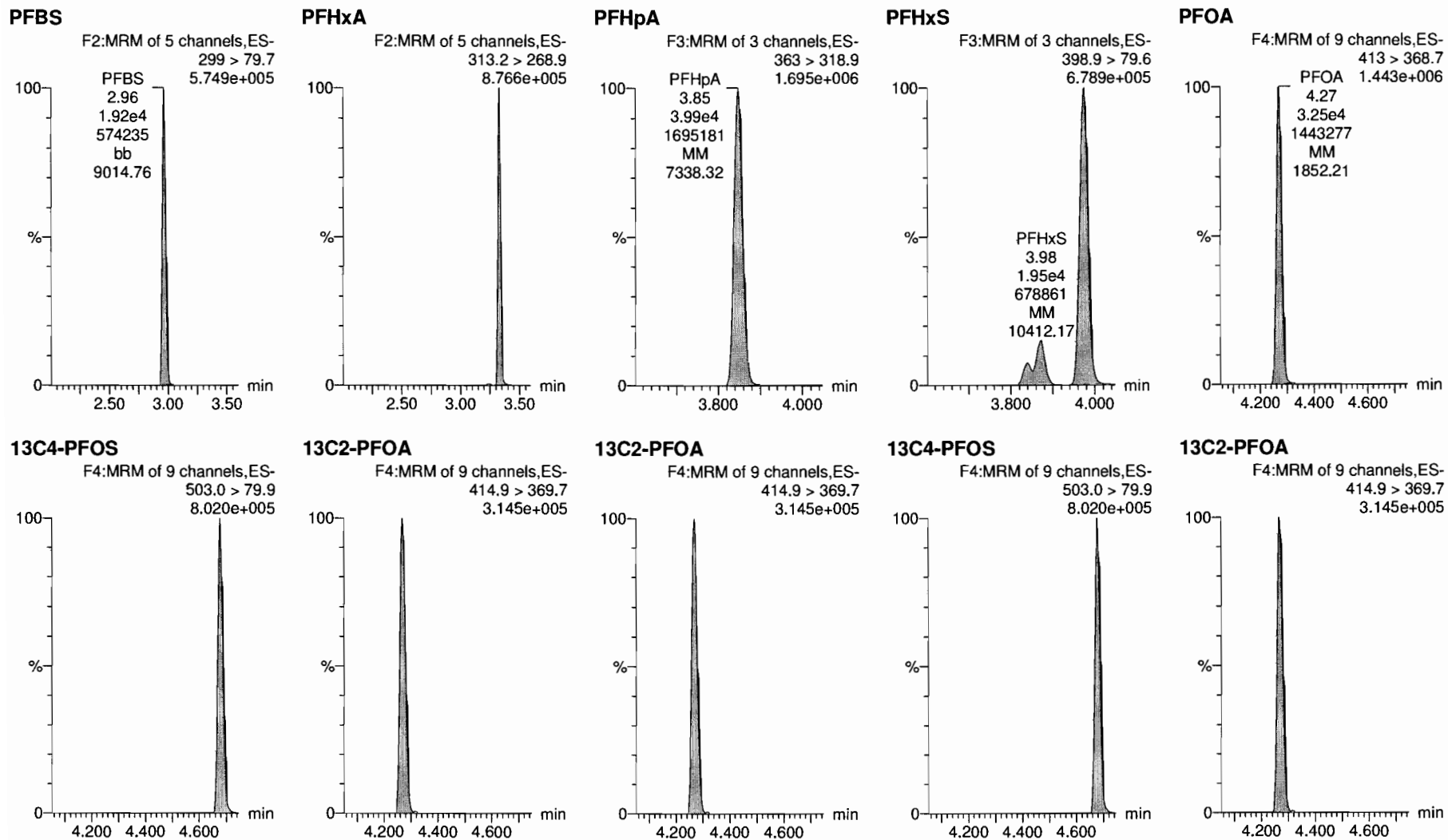
d5-N-EtFOSAA



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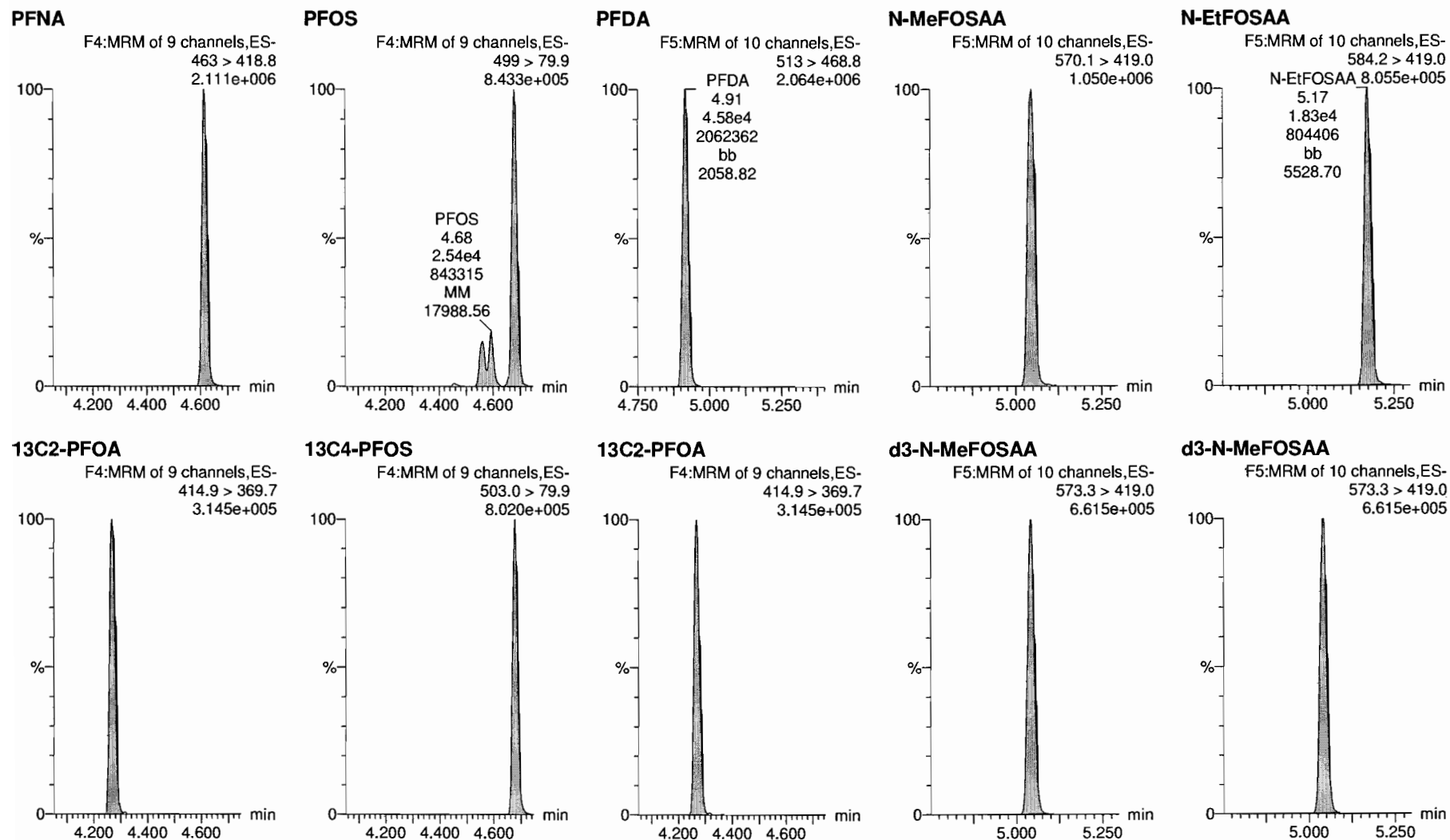
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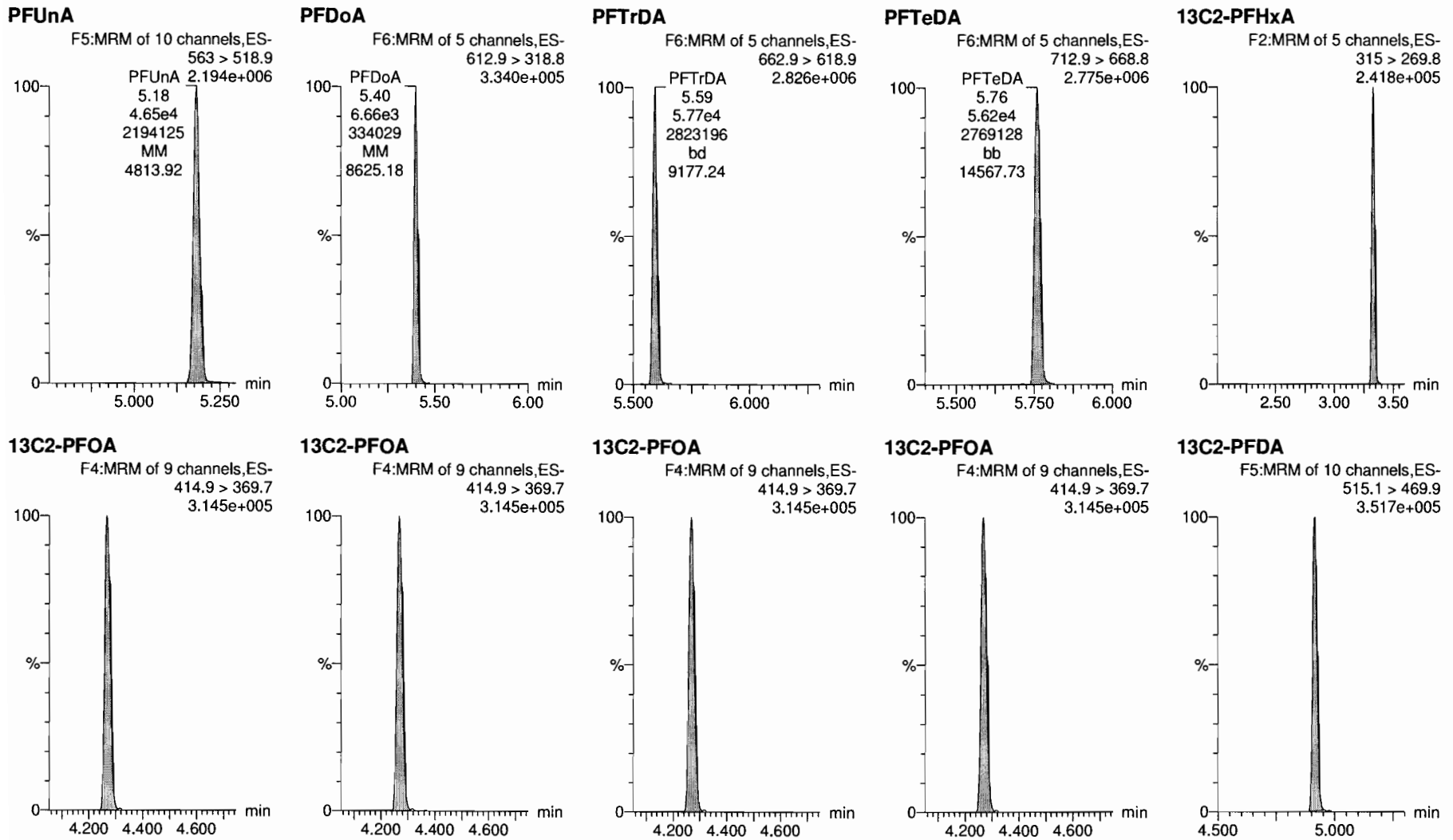
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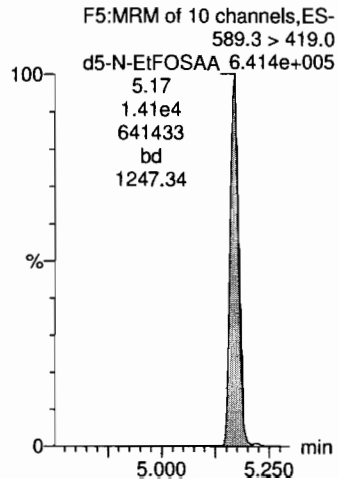
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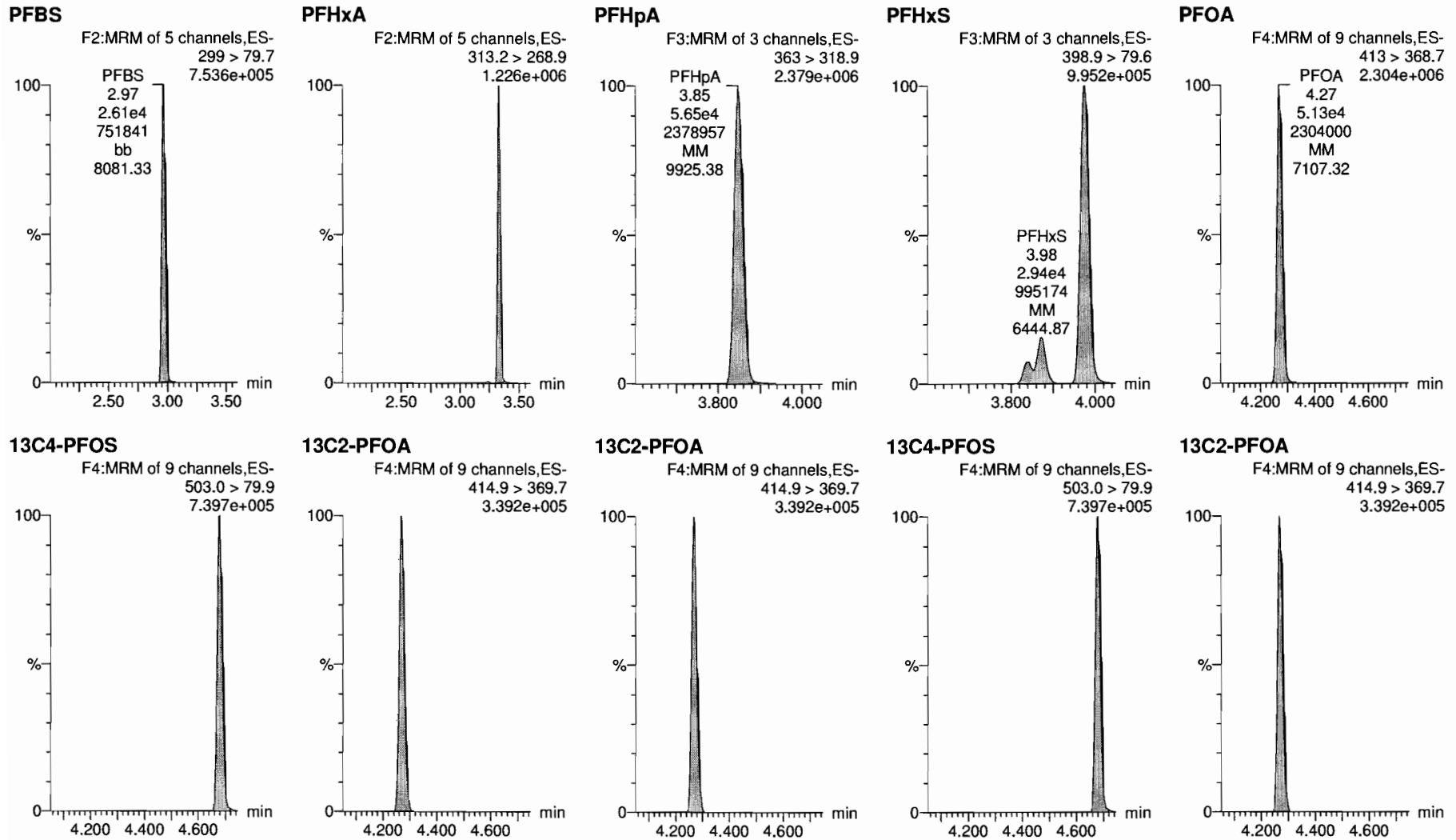
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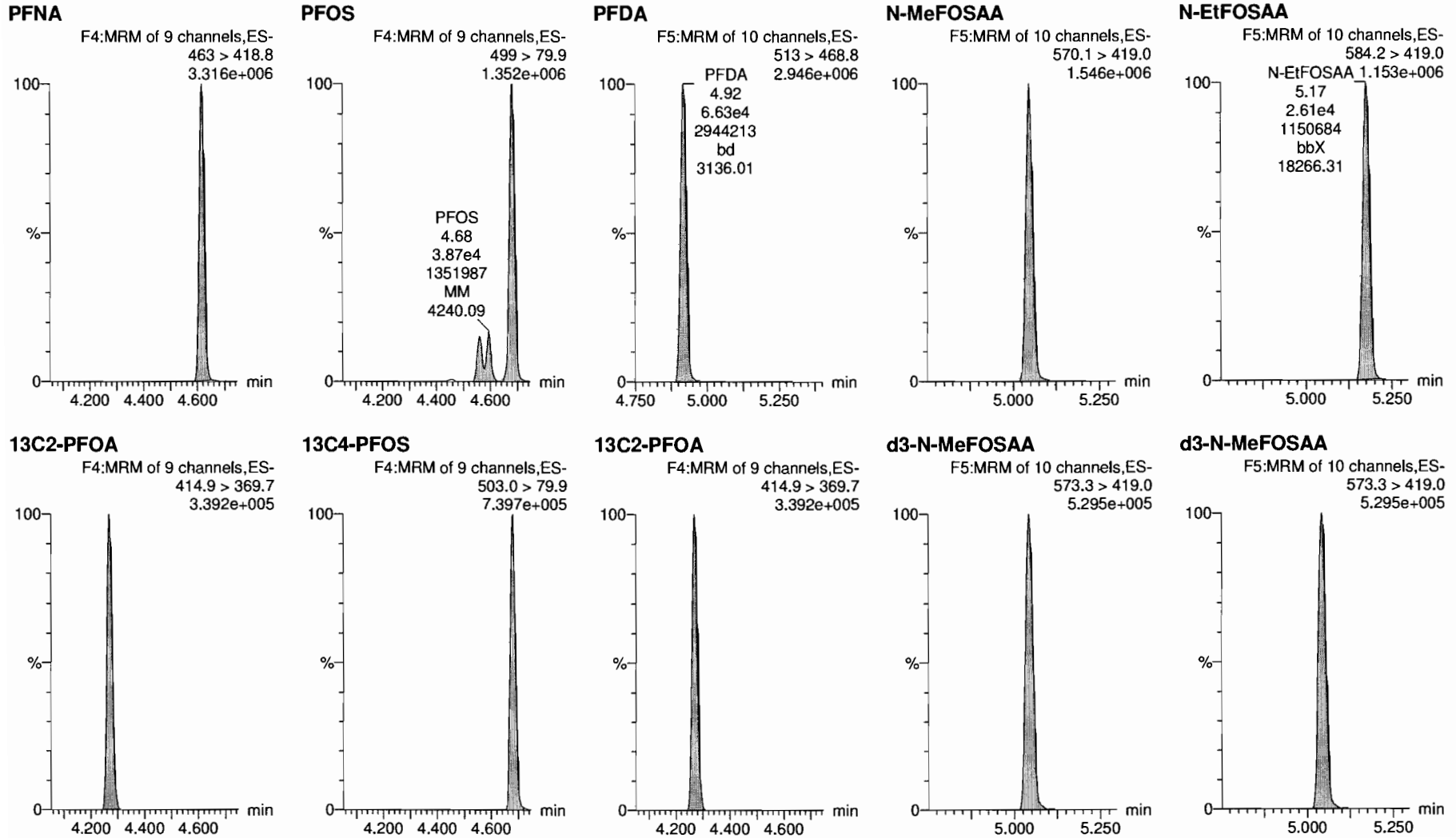
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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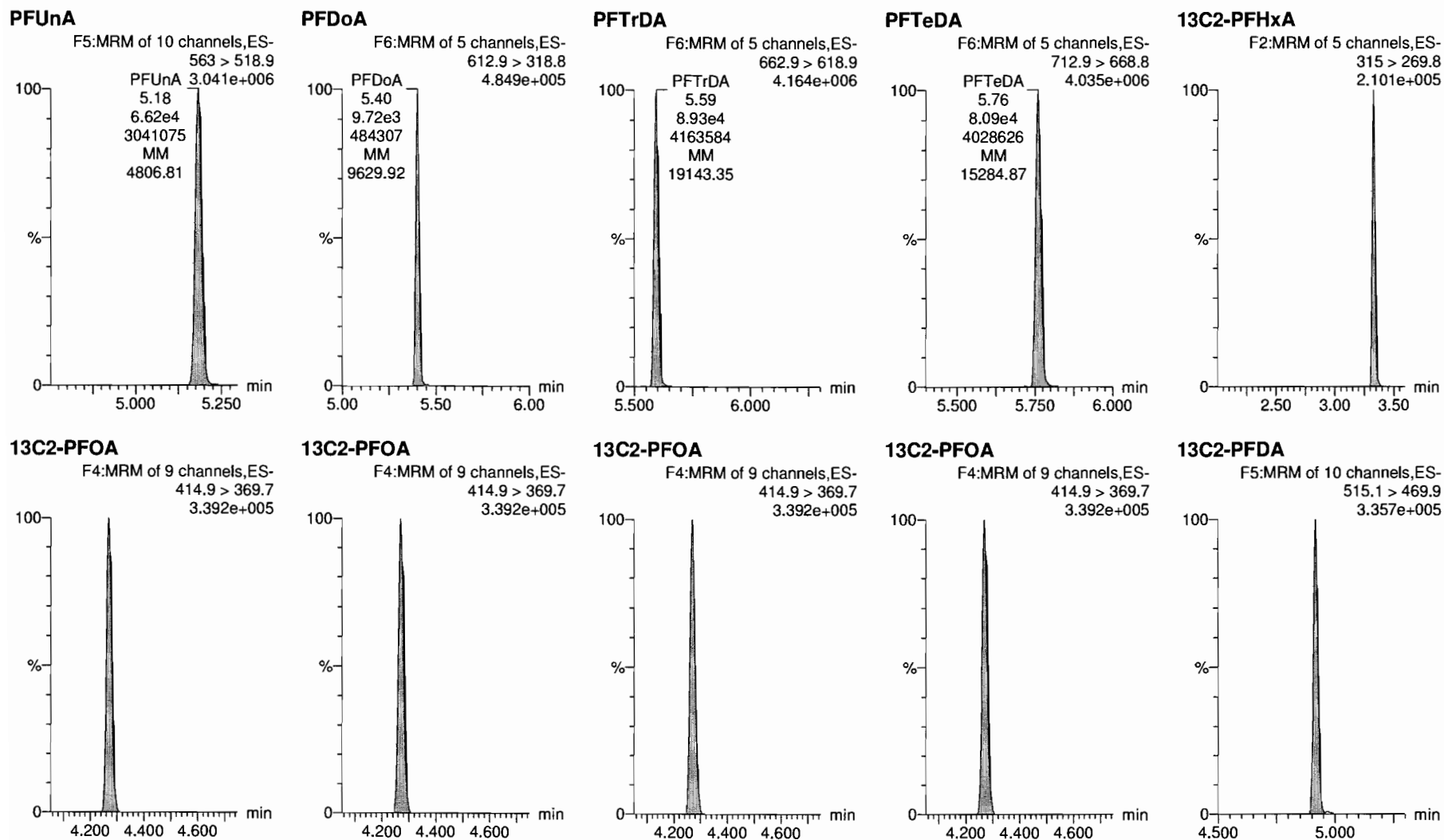


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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

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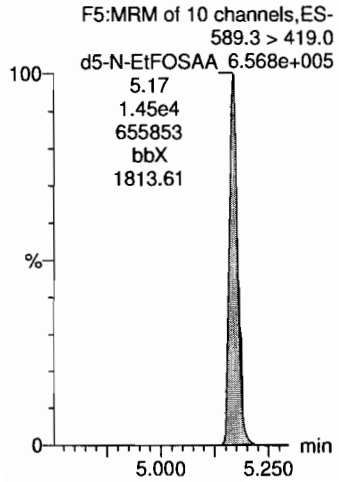
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d5-N-EtFOSAA

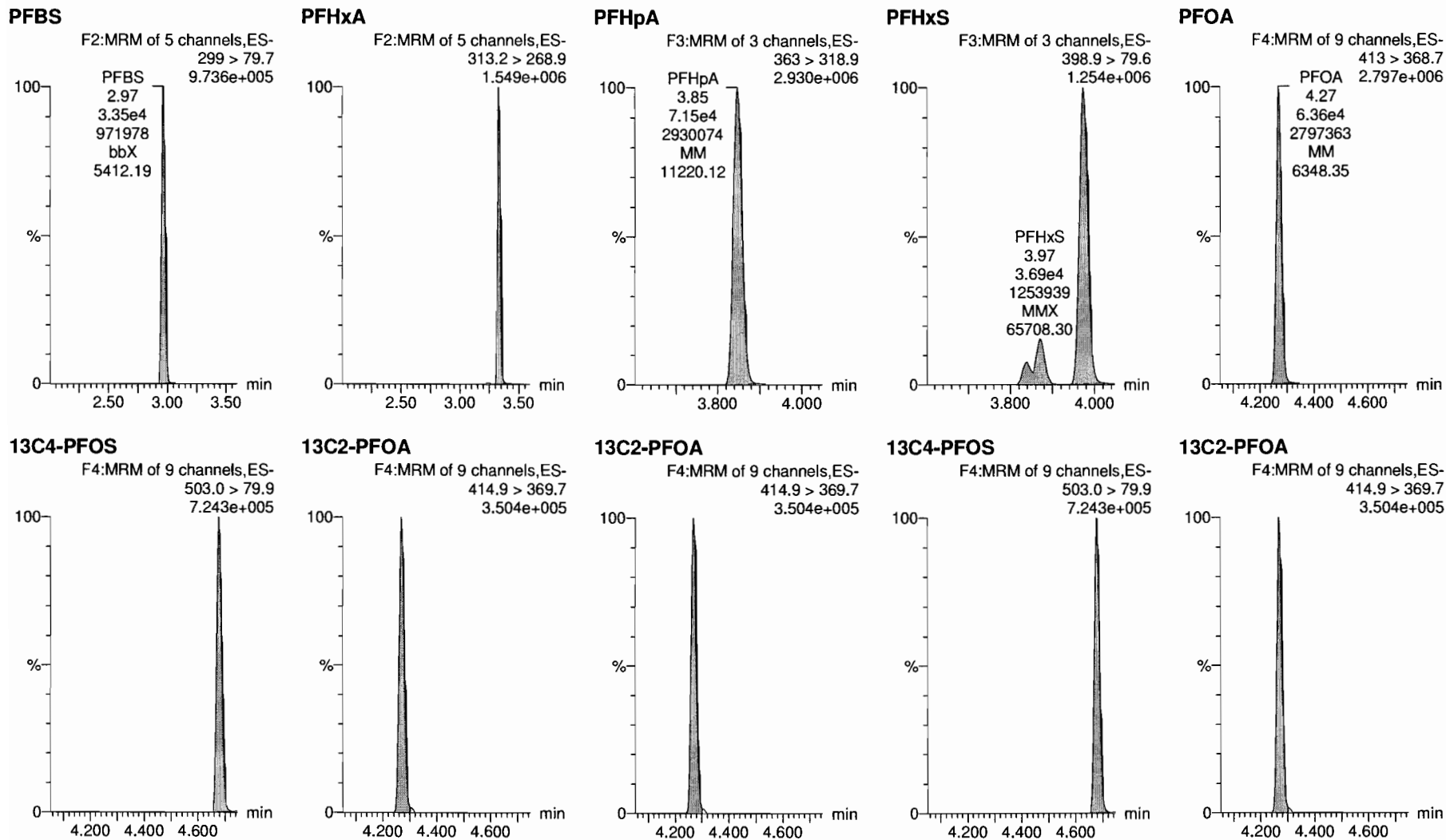


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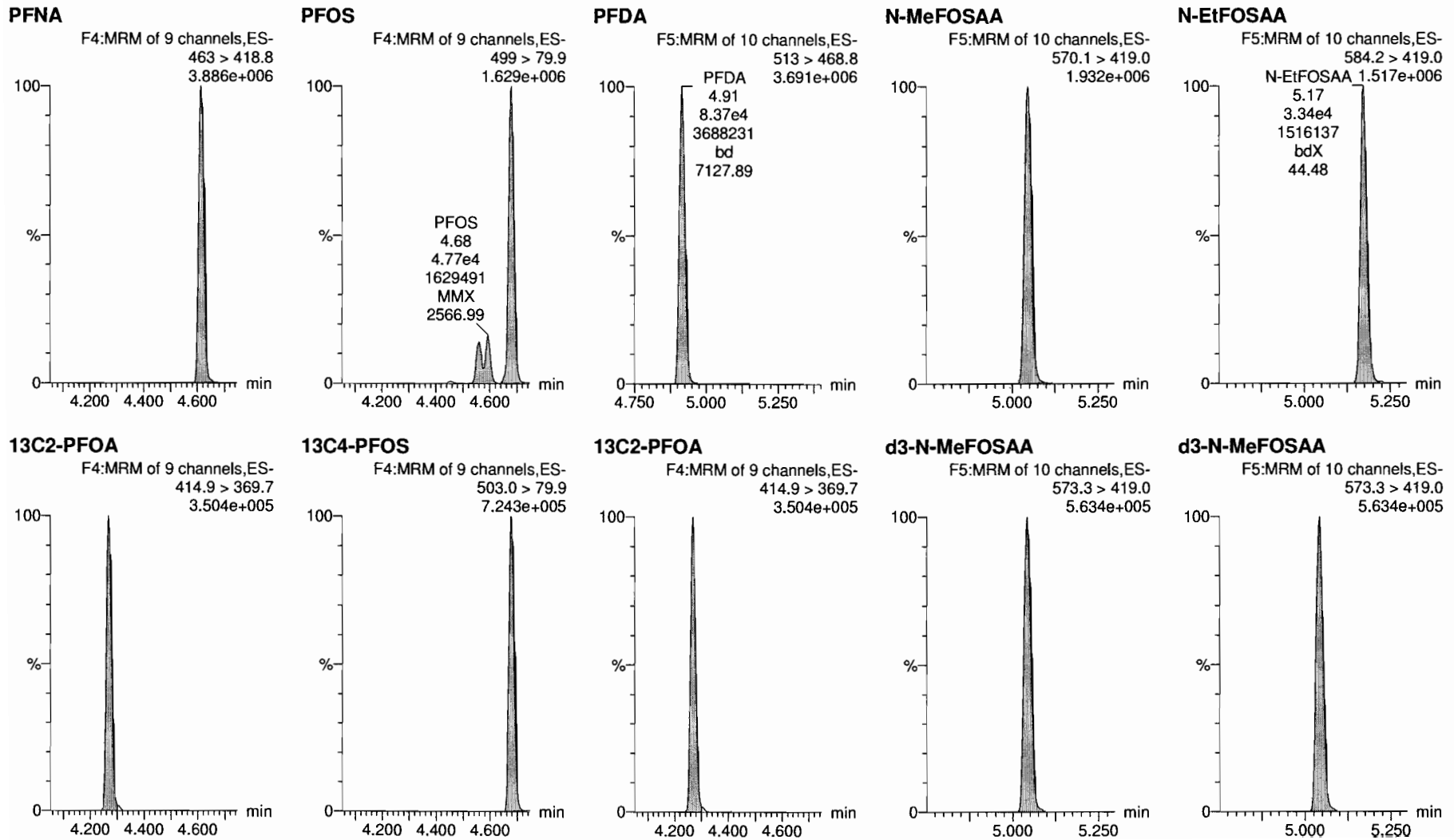
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Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-CRV.qld

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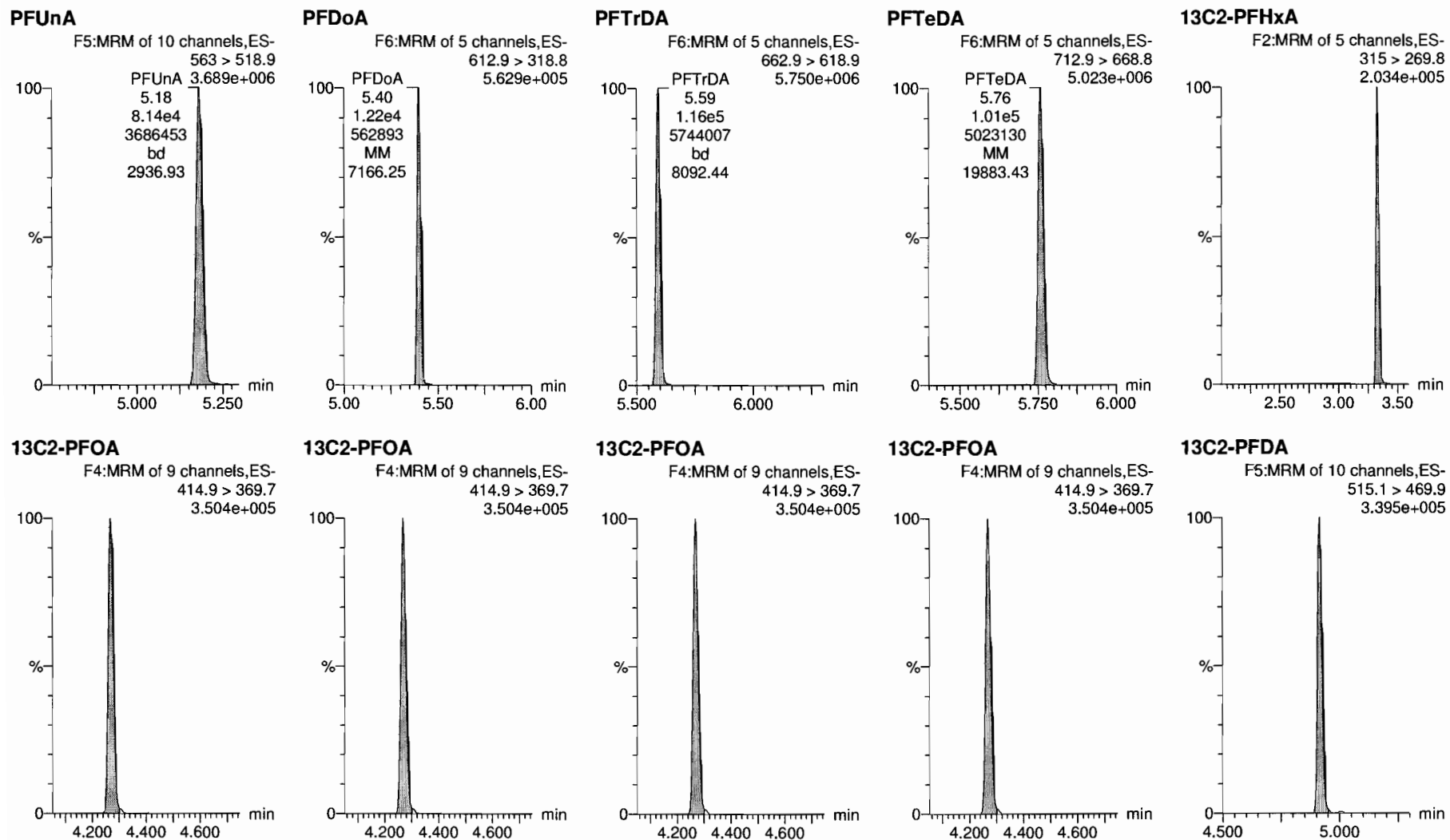
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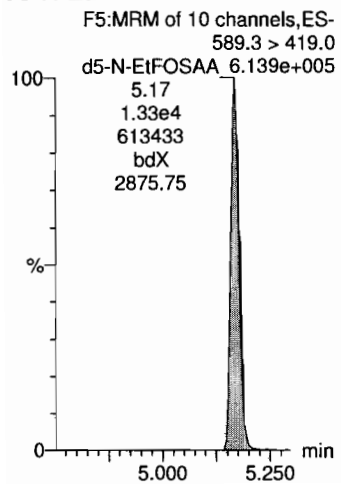
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Printed: Friday, March 09, 2018 11:24:48 Pacific Standard Time

Name: 180308G4_10, Date: 08-Mar-2018, Time: 19:42:25, ID: ST180308G4-9 PFC CS5 537 18B2308, Description: PFC CS5 537 18B2308

d5-N-EtFOSAA



Dataset: X:\G1.PRO\Results\2018\180308G4\180308G4-12.qld

Last Altered: Friday, March 09, 2018 11:33:53 Pacific Standard Time
Printed: Friday, March 09, 2018 12:22:41 Pacific Standard Time

✓ KBF 3/9/18
MJT 3/9/18

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0308.mdb 09 Mar 2018 10:32:26
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_03-08-18_L14.cdb 09 Mar 2018 10:59:51

Name: 180308G4_12, Date: 08-Mar-2018, Time: 20:07:13, ID: ICV180308G4-1 PFC ICV 537 18B2309, Description: PFC ICV 537 18B2309

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.46e3	1.65e4	1.0000		2.99	2.96	7.77	10.9	108.6
2	2 PFHxA	313.2 > 268.9	5.11e3	8.50e3	1.0000		3.33	3.33	6.01	9.88	98.8
3	3 PFHpA	363 > 318.9	9.00e3	8.50e3	1.0000		3.84	3.85	10.6	10.7	106.7
4	4 PFHxS	398.9 > 79.6	4.91e3	1.65e4	1.0000		3.97	3.97	8.55	11.4	114.0
5	5 PFOA	413 > 368.7	7.88e3	8.50e3	1.0000		4.27	4.27	9.28	10.3	102.9
6	6 PFNA	463 > 418.8	9.16e3	8.50e3	1.0000		4.61	4.61	10.8	9.02	90.2
7	7 PFOS	499 > 79.9	5.87e3	1.65e4	1.0000		4.68	4.68	10.2	10.6	106.2
8	8 PFDA	513 > 468.8	1.04e4	8.50e3	1.0000		4.84	4.91	12.3	9.40	94.0
9	9 N-MeFOSAA	570.1 > 419.0	4.81e3	1.48e4	1.0000		4.98	5.04	13.0	10.6	105.7
10	10 N-EtFOSAA	584.2 > 419.0	3.74e3	1.48e4	1.0000		5.16	5.17	10.1	10.3	103.3
11	11 PFUnA	563 > 518.9	9.97e3	8.50e3	1.0000		5.10	5.18	11.7	10.2	101.8
12	12 PFDoA	612.9 > 318.8	1.44e3	8.50e3	1.0000		5.26	5.40	1.70	10.1	101.1
13	13 PFTrDA	662.9 > 618.9	1.31e4	8.50e3	1.0000		5.53	5.59	15.4	9.88	98.8
14	14 PFTeDA	712.9 > 668.8	1.25e4	8.50e3	1.0000		5.70	5.76	14.7	10.4	103.9
15	15 13C2-PFHxA	315 > 269.8	6.92e3	8.50e3	1.0000	0.810	3.43	3.33	8.15	10.1	100.7
16	16 13C2-PFDA	515.1 > 469.9	8.01e3	8.50e3	1.0000	1.057	4.87	4.91	9.42	8.92	89.2
17	17 d5-N-EtFOSAA	589.3 > 419.0	1.58e4	1.48e4	1.0000	0.971	5.04	5.17	42.6	43.9	109.7
18	18 13C2-PFOA	414.9 > 369.7	8.50e3	8.50e3	1.0000	1.000	4.41	4.27	10.0	10.0	100.0
19	19 13C4-PFOS	503.0 > 79.9	1.65e4	1.65e4	1.0000	1.000	4.81	4.68	28.7	28.7	100.0
20	20 d3-N-MeFOSAA	573.3 > 419.0	1.48e4	1.48e4	1.0000	1.000	5.16	5.04	40.0	40.0	100.0

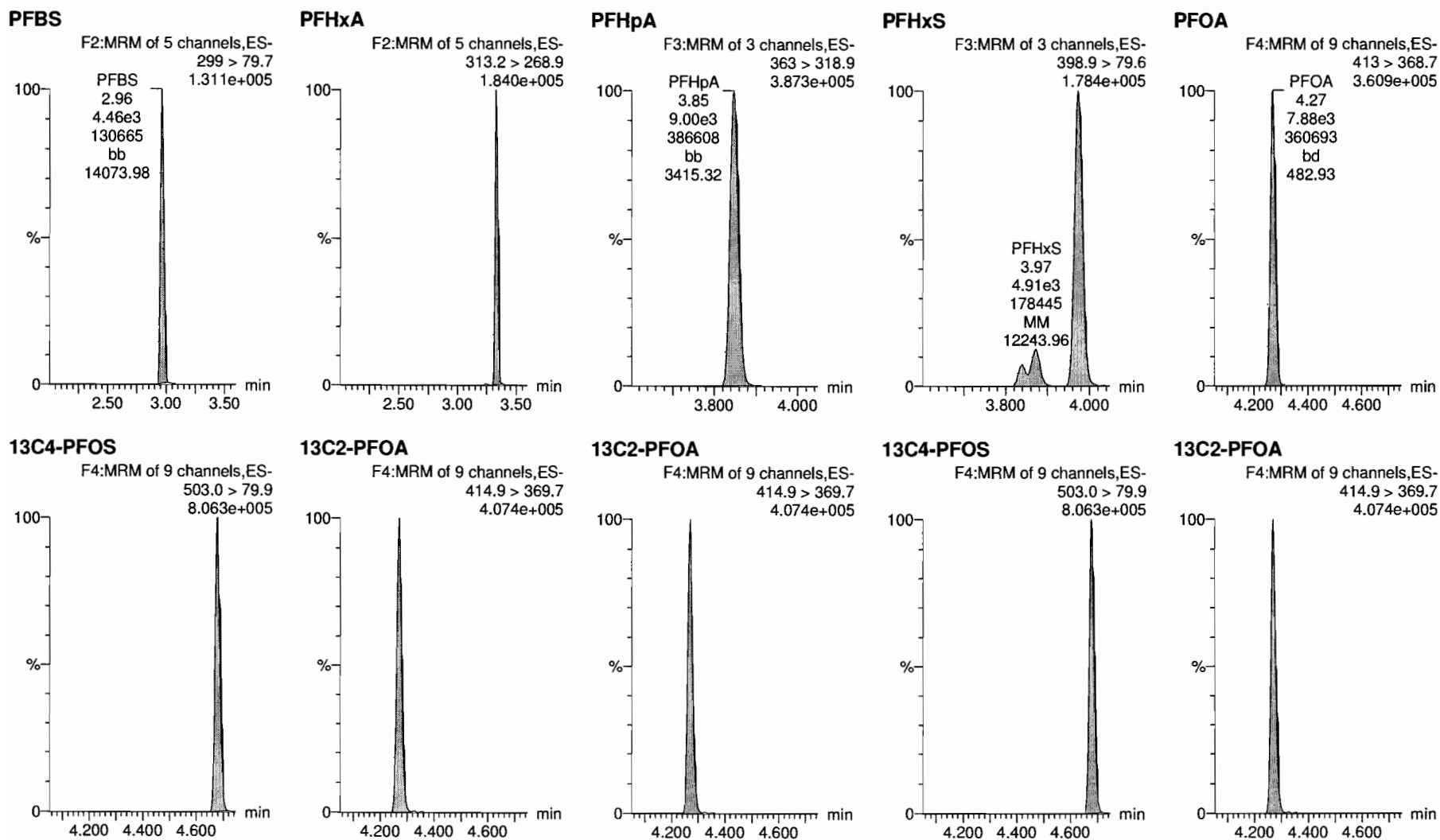
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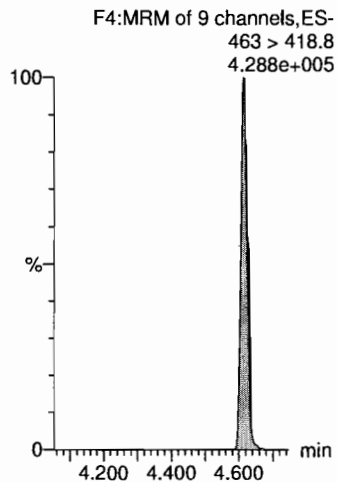


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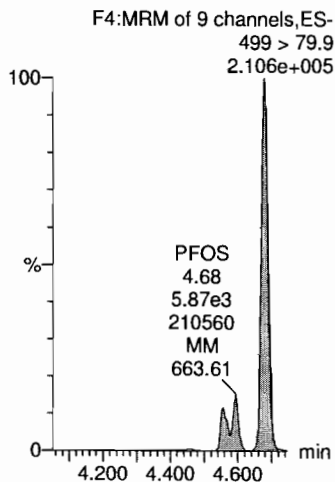
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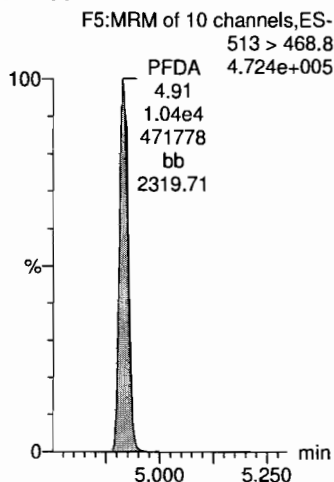
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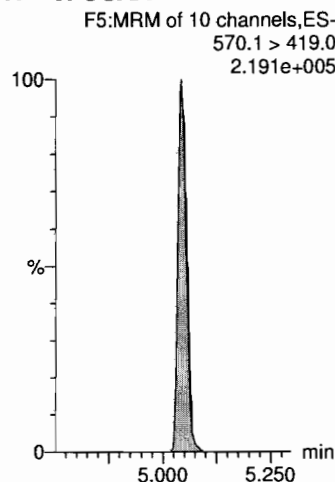
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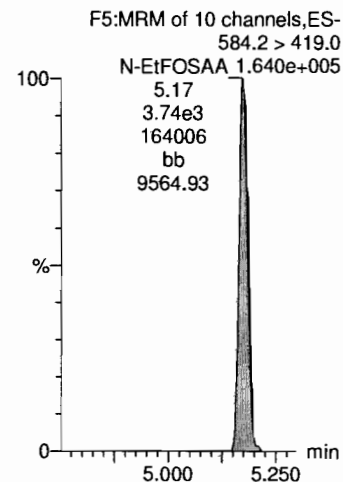
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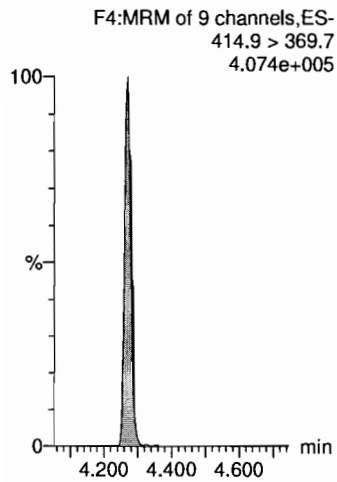
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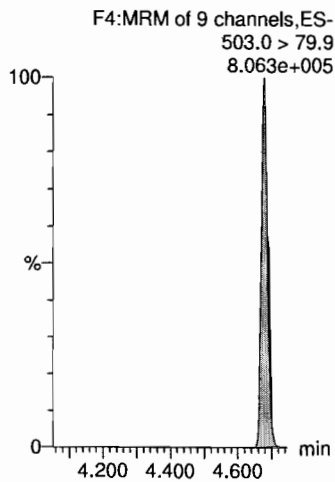
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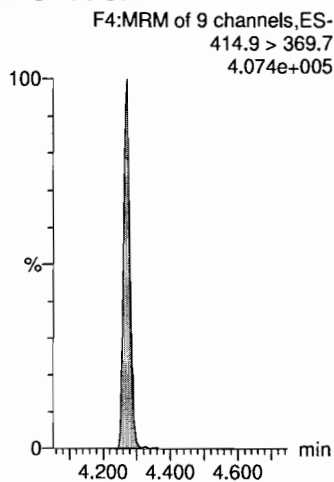
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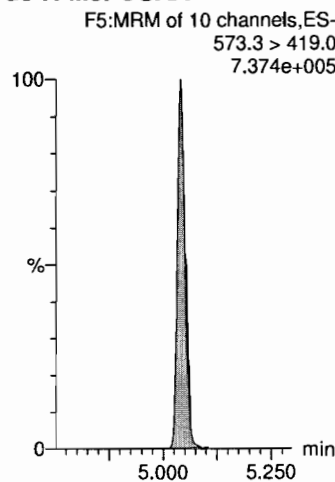
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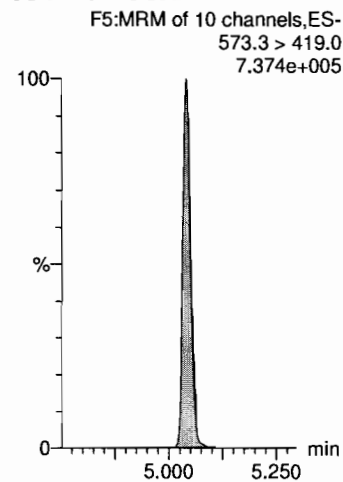
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d3-N-MeFOSAA



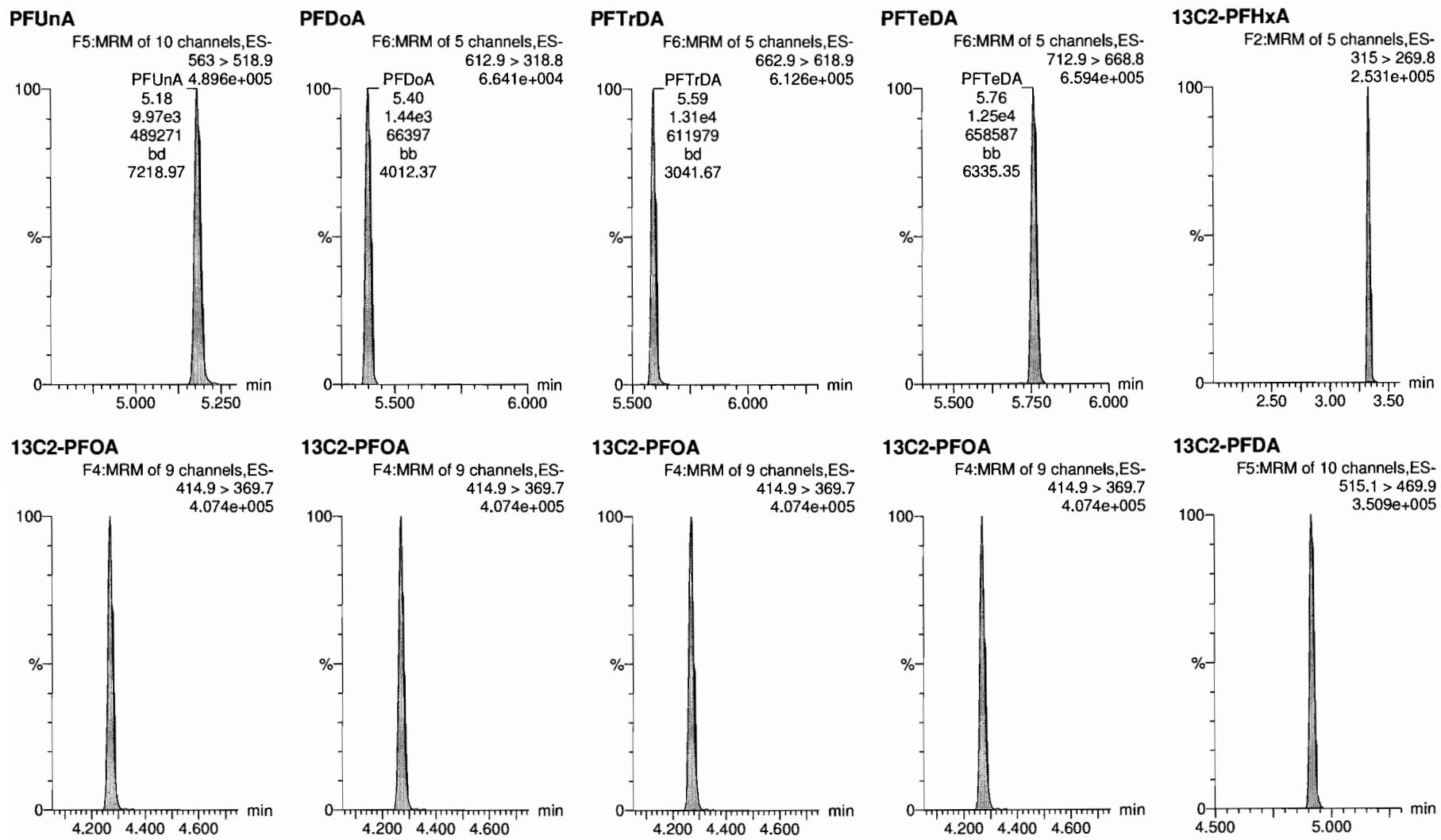
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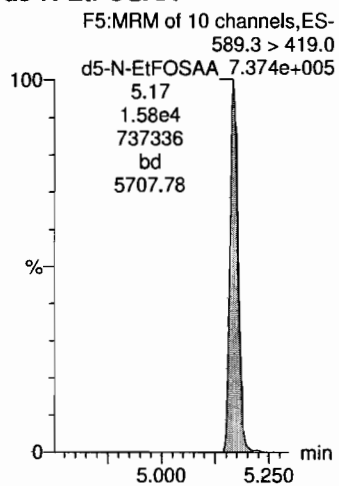
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d5-N-EtFOSAA



Results

Contract_ID	DO_CTO _Number	Phase	Installation_ID	Sample_Name	CH2M Code	Analysis Group	Analytical Method	PRC Code	Lab Code	Lab_Name	Leachate _Method	Sample Basis	Extraction _Method	Result_T ype	Lab_QC_ Type	Sample_ Medium	QC_Level	DateTime_Collect ed	Date_Recei ved	Leachate _Date	Leachate _Time	Extraction_ Date	Extraction_ Time	Analysis_ Date	Analysis _Time	Lab_Sample_ID	Dilution	Run_ Number	Percent Moisture
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1RW188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:42	03/03/2018			20180306	08:45:00	20180307	22:26:00	1800405-17	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1RW188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:42	03/03/2018			20180306	08:45:00	20180307	22:26:00	1800405-17	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1RW188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:42	03/03/2018			20180306	08:45:00	20180307	22:26:00	1800405-17	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1RW188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:42	03/03/2018			20180306	08:45:00	20180307	22:26:00	1800405-17	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1FB188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:43	03/03/2018			20180306	08:45:00	20180307	22:38:00	1800405-18	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1FB188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:43	03/03/2018			20180306	08:45:00	20180307	22:38:00	1800405-18	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1FB188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:43	03/03/2018			20180306	08:45:00	20180307	22:38:00	1800405-18	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	CH-AT-1FB188-0218	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	03/01/2018 19:43	03/03/2018			20180306	08:45:00	20180307	22:38:00	1800405-18	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:31:00	B8C0030-BLK1	1	-999	
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N6247016D9000	0008		CHERRY_POINT_MCAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:31:00	B8C0030-BLK1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:31:00	B8C0030-BLK1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:43:00	B8C0030-BS1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:43:00	B8C0030-BS1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:43:00	B8C0030-BS1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:43:00	B8C0030-BS1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:55:00	B8C0030-BSD1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:55:00	B8C0030-BSD1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:55:00	B8C0030-BSD1	1	-999	
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2018 08:45	03/06/2018			20180306	08:45:00	20180307	18:55:00	B8C0030-BSD1	1	-999	

Results

Contract_ID	DO_CTO _Number	Phase	Installation_ID	Percent Lipid	Chem_Name	Analyte_ID	Analyte Value	Original Analyte Value	Result Units	Lab Qualifier	Validator Qualifier	GC_ Column_ Type	Analysis_ Result Type	Result_ Narrative	QC_ Control_ Limit Code	QC_ Accuracy _Upper	QC_ Accuracy _Lower	Control_L imit_ Date	QC_ Narrative	MDL	Detection_ Limit	QSM_ Version	DL	LOD	LOQ	SDG	Analysis_ Batch	
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorobutanesulfonic acid (PFBS)	375-73-5	4.86		NG_L	U		PR	TRG									5.1	0.431	4.86	9.72	1800405	S8C0016	
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctanoic acid (PFOA)	335-67-1	1.66		NG_L	J		PR	TRG										5.1	1.05	4.86	9.72	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctane Sulfonate (PFOS)	1763-23-1	4.86		NG_L	U		PR	TRG										5.1	1.01	4.86	9.72	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFHxA	13C2-PFHxA	92.7		PCT_REC			PR			SLSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFDA	13C2-PFDA	81.2		PCT_REC			PR			SLSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorobutanesulfonic acid (PFBS)	375-73-5	4.94		NG_L	U		PR	TRG										5.1	0.438	4.94	9.89	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctanoic acid (PFOA)	335-67-1	4.94		NG_L	U		PR	TRG										5.1	1.07	4.94	9.89	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctane Sulfonate (PFOS)	1763-23-1	4.94		NG_L	U		PR	TRG										5.1	1.03	4.94	9.89	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFHxA	13C2-PFHxA	84.0		PCT_REC			PR			SLSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFDA	13C2-PFDA	76.3		PCT_REC			PR			SLSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorobutanesulfonic acid (PFBS)	375-73-5	5.00		NG_L	U		PR	TRG										5.1	0.443	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctanoic acid (PFOA)	335-67-1	5.00		NG_L	U		PR	TRG										5.1	1.08	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctane Sulfonate (PFOS)	1763-23-1	5.00		NG_L	U		PR	TRG										5.1	1.04	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFHxA	13C2-PFHxA	98.1		PCT_REC			PR	SUR		SLSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFDA	13C2-PFDA	92.4		PCT_REC			PR	SUR		SLSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorobutanesulfonic acid (PFBS)	375-73-5	19.9		NG_L			PR	TRG		LSA	130	70						5.1	0.443	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctanoic acid (PFOA)	335-67-1	23.4		NG_L			PR	TRG		LSA	130	70						5.1	1.08	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctane Sulfonate (PFOS)	1763-23-1	18.3		NG_L			PR	TRG		LSA	130	70						5.1	1.04	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFHxA	13C2-PFHxA	99.0		PCT_REC			PR	SUR		LSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFDA	13C2-PFDA	89.8		PCT_REC			PR	SUR		LSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorobutanesulfonic acid (PFBS)	375-73-5	19.7		NG_L			PR	TRG		LSA	130	70						5.1	0.443	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctanoic acid (PFOA)	335-67-1	22.7		NG_L			PR	TRG		LSA	130	70						5.1	1.08	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		Perfluorooctane Sulfonate (PFOS)	1763-23-1	17.5		NG_L			PR	TRG		LSA	130	70						5.1	1.04	5.00	10.0	1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFHxA	13C2-PFHxA	98.7		PCT_REC			PR	SUR		LSA	130	70						5.1				1800405	S8C0016
N6247016D9000	0008		CHERRY_POINT_MCAS		13C2-PFDA	13C2-PFDA	91.1		PCT_REC			PR	SUR		LSA	130	70						5.1				1800405	S8C0016

**DATA VALIDATION SUMMARY REPORT
MCOLF ATLANTIC, NORTH CAROLINA**

Client: CH2M HILL, Inc., Corvallis, Oregon
 SDG: 1800405
 Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
 Site: MCOLF Atlantic, North Carolina
 Date: March 16, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	CH-AT-1RW180-0218	1800405-1	Water
2	CH-AT-1FB180-0218	1800405-2	Water
3	CH-AT-1RW181-0218	1800405-3	Water
4	CH-AT-1FB181-0218	1800405-4	Water
5	CH-AT-1RW182-0218	1800405-5	Water
6	CH-AT-1FB182-0218	1800405-6	Water
7	CH-AT-1RW183-0218	1800405-7	Water
8	CH-AT-1FB183-0218	1800405-8	Water
9	CH-AT-1RW184-0218	1800405-9	Water
10	CH-AT-1FB184-0218	1800405-10	Water
11	CH-AT-1RW185-0218	1800405-11	Water
12	CH-AT-1FB185-0218	1800405-12	Water
13	CH-AT-1RW186-0218	1800405-13	Water
14	CH-AT-1FB186-0218	1800405-14	Water
15	CH-AT-1RW187-0218	1800405-15	Water
16	CH-AT-1FB187-0218	1800405-16	Water
17	CH-AT-1RW188-0218	1800405-17	Water
18	CH-AT-1FB188-0218	1800405-18	Water

A full data validation was performed on the analytical data for nine water samples and nine aqueous field blank samples collected on March 1, 2018 by CH2M HILL at the MCOLF Atlantic site in Atlantic, North Carolina. The samples were analyzed under the EPA Method “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”.

Specific method references are as follows:

Analysis
PFCs

Method References
USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review,” January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent recovery (%R) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
CH-AT-1FB180-0218	None - ND	-	-	-
CH-AT-1FB181-0218	None - ND	-	-	-
CH-AT-1FB182-0218	None - ND	-	-	-
CH-AT-1FB183-0218	None - ND	-	-	-
CH-AT-1FB184-0218	None - ND	-	-	-
CH-AT-1FB185-0218	None - ND	-	-	-
CH-AT-1FB186-0218	None - ND	-	-	-
CH-AT-1FB187-0218	None - ND	-	-	-
CH-AT-1FB188-0218	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 3/17/18

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: CH-AT-1RW180-0218

EPA Method 537

Client Data		Matrix:		Drinking Water		Laboratory Data					
Name:	CH2M Hill	Date Collected:	01-Mar-18	Date Received:	03-Mar-18	Lab Sample:	1800405-01	Batch	06-Mar-18	Column:	BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation							Extracted	06-Mar-18		
		Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS		0.552	0.438	4.94	9.90	J	B8C0030	06-Mar-18	0.253 L	07-Mar-18	19:08
PFOA		1.08	1.07	4.94	9.90	J	B8C0030	06-Mar-18	0.253 L	07-Mar-18	19:08
PFOS		ND	1.03	4.94	9.90		B8C0030	06-Mar-18	0.253 L	07-Mar-18	19:08
Labeled Standards	Type	% Recovery	Limits			Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	93.2	70 - 130				B8C0030	06-Mar-18	0.253 L	07-Mar-18	19:08
13C2-PFDA	SURR	81.7	70 - 130				B8C0030	06-Mar-18	0.253 L	07-Mar-18	19:08

DL - Detection Limit LOD - Limit of Detection LCL-UCL - Lower control limit - upper control limit When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 LOQ - Limit of quantitation Results reported to the DL. Only the linear isomer is reported for all other analytes.

NW 3/16/18

Sample ID: CH-AT-1FB180-0218

EPA Method 537

Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1800405-02							
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Received:	03-Mar-18 10:15							
Matrix:	Drinking Water	Column:	BEH C18							
Date Collected:	01-Mar-18 14:51									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.431	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
PFOA	ND	1.05	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
PFOS	ND	1.01	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C2-PFHxA	SURR	91.6	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1	
13C2-PFDA	SURR	93.0	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 19:20	1	

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of Quantitation

LCL-UCL - Lower control limit - upper control limit

Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

mw 31618

Sample ID: CH-AT-1RW181-0218

EPA Method 537

Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1800405-03							
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Received:	03-Mar-18 10:15							
Matrix:	Drinking Water	Column:	BEH C18							
Date Collected:	01-Mar-18 15:05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.441	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
PFOA	ND	1.08	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
PFOS	ND	1.04	4.98	9.96		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:33	1
Labeled Standards	% Recovery	Limits								
13C2-PFHxA	89.1	70 - 130								
13C2-PFDA	97.6	70 - 130								

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 311618

Sample ID: CH-AT-1FB181-0218		EPA Method 537											
Client Data				Laboratory Data									
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-04	Batch:	06-Mar-18	Extracted	0.259 L	Analyzed	08-Mar-18 20:32	Dilution	1
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 15:06	Date Received:	03-Mar-18 10:15	Batch:	06-Mar-18	Extracted	0.259 L	Analyzed	08-Mar-18 20:32	Dilution	1
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution			
PFBS	ND	0.428	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1			
PFOA	ND	1.04	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1			
PFOS	ND	1.01	4.83	9.67		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1			
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution				
13C2-PFHxA	SURR	94.2	70 - 130		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1				
13C2-PFDA	SURR	86.3	70 - 130		B8C0030	06-Mar-18	0.259 L	08-Mar-18 20:32	1				

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

new 3/15/18

Sample ID: CH-AT-1RW182-0218

EPA Method 537

Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1800405-05							
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Received:	03-Mar-18 10:15							
Matrix:	Drinking Water	Column:	BEH C18							
Date Collected:	01-Mar-18 16:09									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.442	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
PFOA	ND	1.08	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
PFOS	ND	1.04	4.98	9.97		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C2-PFHxA	SURR	98.9	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1	
13C2-PFDA	SURR	90.2	70 - 130		B8C0030	06-Mar-18	0.251 L	07-Mar-18 19:57	1	

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of Quantitation

LCL-UCL - Lower control limit - upper control limit
Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

mw 3116.18

Sample ID: CH-AT-1FB182-0218

EPA Method 537

Client Data		Matrix:		Drinking Water		Laboratory Data				
Name:	CH2M Hill	Date Collected:	01-Mar-18	Date Received:	03-Mar-18	Lab Sample:	1800405-06			
Project:	MCOLF ATLANTIC PFAS DW Investigation					Column:	BEH C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.423	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18	20:10
PFOA	ND	1.03	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18	20:10
PFOS	ND	0.994	4.77	9.56		B8C0030	06-Mar-18	0.262 L	07-Mar-18	20:10
Labeled Standards	Type	% Recovery		Limits		Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	95.1		70 - 130		B8C0030	06-Mar-18	0.262 L	07-Mar-18	20:10
13C2-PFDA	SURR	90.9		70 - 130		B8C0030	06-Mar-18	0.262 L	07-Mar-18	20:10

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of Quantitation

LCL-UCL - Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFCA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

ms 316108

Sample ID: CH-AT-1RW183-0218

EPA Method 537

Client Data		Matrix:		Date Collected:		Drinking Water		Laboratory Data											
Name:	CH2M Hill							Lab Sample:	1800405-07	Batch:	06-Mar-18	Extracted	06-Mar-18	Samp Size	0.253 L	Analyzed	08-Mar-18 20:44	Dilution	1
Project:	MCOLF ATLANTIC PFAS DW Investigation							Date Received:	03-Mar-18 10:15										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution									
PFBS	ND	0.438	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1									
PFOA	ND	1.07	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1									
PFOS	ND	1.03	4.94	9.88		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1									
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution										
13C2-PFHxA	SURR	90.6	70 - 130		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1										
13C2-PFDA	SURR	90.5	70 - 130		B8C0030	06-Mar-18	0.253 L	08-Mar-18 20:44	1										

DL - Detection Limit LOD - Limit of Detection LCL-UCL - Lower control limit - upper control limit When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 LOQ - Limit of quantitation Results reported to the DL. Only the linear isomer is reported for all other analytes.

1803161.8

Sample ID: CH-AT-1FB183-0218

EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Drinking Water	Lab Sample: 1800405-08	Column: BEH C18
Project: MCOLF ATLANTIC PFAS DW Investigation	Date Collected: 01-Mar-18 16:21	Date Received: 03-Mar-18 10:15	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:35	1
Labeled Standards	% Recovery	Limits								
13C2-PFHxA	90.1	70 - 130								
13C2-PFDA	80.4	70 - 130								

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

new 3/16/18

Sample ID: CH-AT-1RW184-0218

EPA Method 537

Client Data		Matrix:		Date Collected:		Drinking Water		Laboratory Data		Column:	
Name:	CH2M Hill							Lab Sample:	1800405-09		BEH C18
Project:	MCOLF ATLANTIC PFAS DW Investigation							Date Received:	03-Mar-18 10:15		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBS	ND	0.434	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1	
PFOA	ND	1.06	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1	
PFOS	ND	1.02	4.90	9.79		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C2-PFHxA	SURR	93.1	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1		
13C2-PFDA	SURR	88.3	70 - 130		B8C0030	06-Mar-18	0.255 L	07-Mar-18 20:47	1		

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of Quantitation

LCL-UCL - Lower control limit - upper control limit

Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

new 3/16/18

Sample ID: CH-AT-1FB184-0218

EPA Method 537

Client Data		Laboratory Data	
Name:	CH2M Hill	Lab Sample:	1800405-10
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Received:	03-Mar-18 10:15
Matrix:	Drinking Water	Column:	BEH C18
Date Collected:	01-Mar-18 16:33		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.433	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
PFOA	ND	1.06	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
PFOS	ND	1.02	4.88	9.77		B8C0030	06-Mar-18	0.256 L	07-Mar-18 20:59	1
Labeled Standards	% Recovery	Limits								
13C2-PFHxA	91.0	70 - 130								
13C2-PFDA	71.7	70 - 130								

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 31.61.8

Sample ID: CH-AT-1RW185-0218

EPA Method 537

Client Data		Matrix:		Drinking Water		Laboratory Data				
Name:	CH2M Hill	Date Collected:	01-Mar-18 16:54	Lab Sample:	1800405-11	Batch	Extracted	Samp Size	Analyzed	Dilution
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Collected:	01-Mar-18 16:54	Date Received:	03-Mar-18 10:15	Batch	Extracted	Samp Size	Analyzed	Dilution
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.435	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
PFOA	ND	1.06	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
PFOS	ND	1.02	4.92	9.83		B8C0030	06-Mar-18	0.254 L	07-Mar-18 21:12	1
Labeled Standards	% Recovery	Limits								
13C2-PFHxA	88.0	70 - 130								
13C2-PFDA	81.1	70 - 130								

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of Quantitation

LCL-UCL - Lower control limit - upper control limit

Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

mw 31.61.8

Sample ID: CH-AT-1FB185-0218

EPA Method 537

Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1800405-12							
Project:	MCOLF ATLANTIC PFAS DW Investigation	Date Received:	03-Mar-18 10:15							
Matrix:	Drinking Water	Column:	BEH C18							
Date Collected:	01-Mar-18 16:55									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.426	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
PFOA	ND	1.04	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
PFOS	ND	0.999	4.81	9.61		B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1
Labeled Standards	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C2-PFHxA	84.3	70 - 130			B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1	
13C2-PFDA	82.5	70 - 130			B8C0030	06-Mar-18	0.260 L	08-Mar-18 20:56	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 31618

Sample ID: CH-AT-1RW186-0218

EPA Method 537

Client Data		Matrix:		Drinking Water		Laboratory Data				
Name:	CH2M Hill	Date Collected:	01-Mar-18	Date Received:	03-Mar-18	Lab Sample:	1800405-13	Column:	BEH C18	
Project:	MCOLF ATLANTIC PFAS DW Investigation									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.436	4.92	9.85		B8C0030	06-Mar-18	0.254 L	07-Mar-18	21:36
PFOA	1.56	1.06	4.92	9.85	J	B8C0030	06-Mar-18	0.254 L	07-Mar-18	21:36
PFOS	ND	1.02	4.92	9.85		B8C0030	06-Mar-18	0.254 L	07-Mar-18	21:36
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C2-PFHxA	SURR	81.8	70 - 130		B8C0030	06-Mar-18	0.254 L	07-Mar-18	21:36	
13C2-PFDA	SURR	80.1	70 - 130		B8C0030	06-Mar-18	0.254 L	07-Mar-18	21:36	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 3161.8

Sample ID: CH-AT-1FB186-0218		EPA Method 537											
Client Data				Laboratory Data									
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1800405-14	Batch	06-Mar-18	Extracted	0.255 L	Analyzed	08-Mar-18 21:09	Dilution	1
Project:	MCOLF ATLANTIC PEAS DW Investigation	Date Collected:	01-Mar-18 17:13	Date Received:	03-Mar-18 10:15	Batch	06-Mar-18	Extracted	0.255 L	Analyzed	08-Mar-18 21:09	Dilution	1
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution			
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1			
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1			
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1			
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution				
13C2-PFHxA	SURR	90.7	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1				
13C2-PFDA	SURR	82.6	70 - 130		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:09	1				

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers
 Only the linear isomer is reported for all other analytes

18031618

Sample ID: CH-AT-1RW187-0218

EPA Method 537

Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1800405-15							
Project:	MCOLF ATLANTIC PEAS DW Investigation	Date Received:	03-Mar-18 10:15							
Matrix:	Drinking Water	Column:	BEH C18							
Date Collected:	01-Mar-18 19:30									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.430	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
PFOA	ND	1.05	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
PFOS	ND	1.01	4.84	9.71		B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
Labeled Standards	% Recovery	Limits			Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	86.4	70 - 130				B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1
13C2-PFDA	76.6	70 - 130				B8C0030	06-Mar-18	0.258 L	08-Mar-18 21:21	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes

1800405

Sample ID: CH-AT-1FB187-0218

EPA Method 537

Client Data		Laboratory Data	
Name:	CH2M Hill	Lab Sample:	1800405-16
Project:	MCOLF ATLANTIC PEAS DW Investigation	Date Received:	03-Mar-18 10:15
Matrix:	Drinking Water	Column:	BEH C18
Date Collected:	01-Mar-18 19:31		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.434	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
PFOA	ND	1.06	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
PFOS	ND	1.02	4.90	9.80		B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
Labeled Standards	% Recovery	Limits			Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	91.4	70 - 130				B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1
13C2-PFDA	96.9	70 - 130				B8C0030	06-Mar-18	0.255 L	08-Mar-18 21:34	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

new 3/16/18

Sample ID: CH-AT-1RW188-0218

EPA Method 537

Client Data		Laboratory Data	
Name:	CH2M Hill	Lab Sample:	1800405-17
Project:	MCOLF ATLANTIC PEAS DW Investigation	Date Received:	03-Mar-18 10:15
Matrix:	Drinking Water	Column:	BEH C18
Date Collected:	01-Mar-18 19:42		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.431	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
PFOA	1.66	1.05	4.86	9.72	J	B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
PFOS	ND	1.01	4.86	9.72		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	92.7	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1
13C2-PFDA	SURR	81.2	70 - 130		B8C0030	06-Mar-18	0.257 L	07-Mar-18 22:26	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes

new 311610

Sample ID: CH-AT-1FB188-0218

EPA Method 537

Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1800405-18							
Project:	MCOLF ATLANTIC PEAS DW Investigation	Date Received:	03-Mar-18 10:15							
Matrix:	Drinking Water	Column:	BEH C18							
Date Collected:	01-Mar-18 19:43									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.438	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
PFOA	ND	1.07	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
PFOS	ND	1.03	4.94	9.89		B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
Labeled Standards	% Recovery	Limits			Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	84.0	70 - 130				B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1
13C2-PFDA	76.3	70 - 130				B8C0030	06-Mar-18	0.253 L	07-Mar-18 22:38	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of Quantitation

LCL-UCL- Lower control limit - upper control limit

Results reported to the DL

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes

new 3/16/18



- Legend**
- Proposed Sample Location
 - ⊠ Public Water Supply Well
 - ➡ Direction of Groundwater Flow
 - ▭ MCOLF Atlantic - 1-mile zone
 - - - Base Boundary
 - ▭ Site Boundary (suspected source)
 - ▭ Parcels

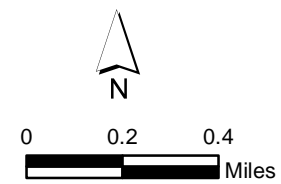


Figure 3
Proposed Sampling Locations
Marine Corps Outlying Landing Field Atlantic
Atlantic Beach, North Carolina