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Naval Facilities Engineering Command

Groundwater Sample Results, Level 2 Laboratory Report, Level 4 Laboratory Report, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG 1701549

Naval Weapons Station Yorktown
Yorktown, Virginia

July 2019

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

November 27, 2017

Vista Work Order No. 1701549

Ms. Tammy Carey
CH2M Hill
25 West Cedar Street, Suite 350
Pensacola, FL 32502

Dear Ms. Carey,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 26, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name '680536 NWSYorktown'.

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,

Karen J. Volpendesta for

Martha Maier
Laboratory Director

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

Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

Vista Work Order No. 1701549
Case Narrative

Sample Condition on Receipt:

Thirteen groundwater 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:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

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

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The recovery of PFNA was 67.4% in the OPR, which is less than the acceptance limit of 70%. The recoveries of all other compounds were within the method acceptance criteria

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

As requested, an MS/MSD was performed on sample "YS22-GW06-1017". The recovery and/or RPD of PFNA and PFTrDA were outside of the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701549-01	YS22-GW11-1017	23-Oct-17 16:40	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-02	YS22-GW11A-1017	23-Oct-17 18:15	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-03	YS22-EB01-102317	23-Oct-17 18:00	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-04	YS22-GW06-1017	MS/MSD24-Oct-17 11:00	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-05	YS22-GW04-1017	24-Oct-17 11:35	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-06	YS22-GW07-1017	24-Oct-17 13:45	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-07	YS22-GW12-1017	24-Oct-17 14:40	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-08	YS22-GW12P-1017	24-Oct-17 14:45	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-09	YS22-GW12A-1017	24-Oct-17 16:55	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-10	YS22-GW15-1017	25-Oct-17 09:45	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-11	YS22-GW15A-1017	25-Oct-17 12:50	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-12	YS22-GW13-1017	25-Oct-17 15:25	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-13	YS22-EB02-102517	25-Oct-17 16:05	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Vista Analytical Laboratory

Sample ID: Method Blank

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Matrix: Aqueous

Laboratory Data

Lab Sample: B7J0197-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.79	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFHxA	ND	2.18	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFHpA	ND	0.591	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFHxS	ND	0.947	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFOA	ND	0.651	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFOS	ND	0.807	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFNA	ND	0.810	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFDA	ND	1.49	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
MeFOSAA	ND	1.65	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFUnA	ND	1.05	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
EtFOSAA	ND	1.37	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFDoA	ND	0.792	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFTrDA	ND	0.494	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFTeDA	ND	0.755	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	106	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFHxA	IS	102	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C4-PFHpA	IS	108	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
18O2-PFHxS	IS	88.9	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFOA	IS	105	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C8-PFOS	IS	105	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C5-PFNA	IS	92.5	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFDA	IS	73.0	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
d3-MeFOSAA	IS	70.8	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFUnA	IS	91.0	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
d5-EtFOSAA	IS	80.7	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFDoA	IS	98.7	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFTeDA	IS	129	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	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: OPR

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Matrix: Aqueous

Laboratory Data

Lab Sample: B7J0197-BS1
Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	68.4	80.0	85.5	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFHxA	68.0	80.0	85.0	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFHpA	67.1	80.0	83.9	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFHxS	59.1	80.0	73.9	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFOA	75.2	80.0	94.0	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFOS	81.4	80.0	102	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFNA	53.9	80.0	67.4	70-130	H	B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFDA	83.4	80.0	104	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
MeFOSAA	67.4	80.0	84.2	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFUnA	57.4	80.0	71.7	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
EtFOSAA	68.1	80.0	85.1	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFDoA	65.5	80.0	81.9	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFTrDA	79.0	80.0	98.7	60-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFTeDA	56.6	80.0	70.7	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	117	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFHxA	IS	113	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C4-PFHpA	IS	114	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
18O2-PFHxS	IS	121	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFOA	IS	110	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C8-PFOS	IS	107	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C5-PFNA	IS	116	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFDA	IS	94.9	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
d3-MeFOSAA	IS	79.5	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFUnA	IS	75.5	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
d5-EtFOSAA	IS	85.8	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFDoA	IS	84.3	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFTeDA	IS	129	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1

Vista Analytical Laboratory

Sample ID: YS22-GW11-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 16:40

Laboratory Data

Lab Sample: 1701549-01
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHxA	ND	2.32	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHpA	ND	0.630	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHxS	12.8	1.01	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFOA	ND	0.693	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFOS	ND	0.860	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFNA	ND	0.863	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFDA	ND	1.59	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
MeFOSAA	ND	1.76	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFUnA	ND	1.12	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
EtFOSAA	ND	1.46	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFDoA	ND	0.844	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFTrDA	ND	0.526	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFTeDA	ND	0.804	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFHxA	IS	111	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C4-PFHpA	IS	133	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
18O2-PFHxS	IS	115	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFOA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C8-PFOS	IS	111	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C5-PFNA	IS	86.1	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFDA	IS	98.9	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
d3-MeFOSAA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFUnA	IS	93.7	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
d5-EtFOSAA	IS	95.3	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFDoA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFTeDA	IS	120	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	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: YS22-GW11A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 18:15

Laboratory Data

Lab Sample: 1701549-02
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHxA	ND	2.35	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHpA	ND	0.636	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHxS	ND	1.02	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFOA	ND	0.700	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFOS	ND	0.868	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFNA	ND	0.872	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFDA	ND	1.60	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
MeFOSAA	ND	1.78	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFUnA	ND	1.13	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
EtFOSAA	ND	1.47	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFDoA	ND	0.852	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFTrDA	ND	0.532	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFTeDA	ND	0.812	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	132	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFHxA	IS	113	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C4-PFHpA	IS	113	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
18O2-PFHxS	IS	103	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFOA	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C8-PFOS	IS	139	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C5-PFNA	IS	90.9	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFDA	IS	83.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
d3-MeFOSAA	IS	81.3	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFUnA	IS	111	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
d5-EtFOSAA	IS	105	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFDoA	IS	108	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFTeDA	IS	142	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	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.

Vista Analytical Laboratory

Sample ID: YS22-EB01-102317

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 18:00

Laboratory Data

Lab Sample: 1701549-03
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHxA	ND	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHpA	ND	0.626	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHxS	ND	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFOA	ND	0.690	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFOS	ND	0.855	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFNA	ND	0.859	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFDoA	ND	0.840	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFTrDA	ND	0.524	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFHxA	IS	108	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C4-PFHpA	IS	123	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
18O2-PFHxS	IS	102	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFOA	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C8-PFOS	IS	89.9	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C5-PFNA	IS	94.1	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFDA	IS	83.4	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
d3-MeFOSAA	IS	86.0	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFUnA	IS	84.6	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
d5-EtFOSAA	IS	85.2	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFDoA	IS	98.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFTeDA	IS	109	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	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: YS22-GW06-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 11:00

Laboratory Data

Lab Sample: 1701549-04
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.86	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHxA	ND	2.27	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHpA	ND	0.615	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHxS	7.88	0.985	5.21	8.33	J	B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFOA	ND	0.677	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFOS	ND	0.840	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFNA	ND	0.843	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFDA	ND	1.55	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
MeFOSAA	ND	1.72	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFUnA	ND	1.09	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
EtFOSAA	ND	1.43	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFDoA	ND	0.824	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFTrDA	ND	0.514	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFTeDA	ND	0.786	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	145	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFHxA	IS	120	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C4-PFHpA	IS	122	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
18O2-PFHxS	IS	109	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFOA	IS	134	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C8-PFOS	IS	104	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C5-PFNA	IS	102	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFDA	IS	91.5	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
d3-MeFOSAA	IS	91.3	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFUnA	IS	104	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
d5-EtFOSAA	IS	93.8	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFDoA	IS	111	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFTeDA	IS	148	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	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: YS22-GW06-1017

Modified EPA Method 537

Name:	CH2M Hill	Lab Sample:	B7J0197-MS1/B7J0197-MSD1	Source Lab Sample:	1701549-04
Project:	680536 NWSYorktown	QC Batch:	B7J0197	Date Extracted:	30-Oct-17
Matrix:	Aqueous	Samp Size:	0.117/0.120 L	Column:	BEH C18

Analyte	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	ND	74.1	85.8	85.2		70.3	83.4	83.1	2.50		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFHxA	ND	74.3	85.8	86.5		74.6	83.4	89.5	3.41		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFHpA	ND	75.7	85.8	88.2		72.0	83.4	86.3	2.18		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFHxS	7.88	75.5	85.8	78.8		80.2	83.4	86.7	9.55		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFOA	ND	78.5	85.8	91.5		83.7	83.4	100	8.88		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFOS	ND	79.1	85.8	92.2		87.7	83.4	105	13.0		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFNA	ND	57.6	85.8	67.1	H	67.3	83.4	80.7	18.4		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFDA	ND	73.0	85.8	85.1		70.6	83.4	84.7	0.471		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
MeFOSAA	ND	94.3	85.8	110		88.6	83.4	106	3.70		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFUnA	ND	78.8	85.8	91.8		77.4	83.4	92.8	1.08		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
EtFOSAA	ND	72.8	85.8	84.9		65.8	83.4	78.9	7.33		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFDoA	ND	65.2	85.8	76.0		68.9	83.4	82.6	8.32		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFTrDA	ND	75.2	85.8	87.7		106	83.4	127	36.6	H	60-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFTeDA	ND	75.2	85.8	87.6		74.5	83.4	89.3	1.92		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	115		138		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFHxA	IS	110		116		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C4-PFHpA	IS	112		118		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
18O2-PFHxS	IS	99.5		106		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFOA	IS	123		105		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C8-PFOS	IS	126		103		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C5-PFNA	IS	125		89.0		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFDA	IS	99.5		96.0		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
d3-MeFOSAA	IS	86.5		77.5		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFUnA	IS	84.8		85.2		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
d5-EtFOSAA	IS	93.4		96.8		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFDoA	IS	93.2		80.9		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFTeDA	IS	113		106		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1

Sample ID: YS22-GW04-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 11:35

Laboratory Data

Lab Sample: 1701549-05
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.92	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHxA	ND	2.34	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHpA	ND	0.635	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHxS	9.13	1.02	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFOA	1.84	0.700	5.39	8.60	J	B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFOS	82.9	0.867	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFNA	ND	0.870	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFDA	ND	1.60	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
MeFOSAA	ND	1.77	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFUnA	ND	1.13	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
EtFOSAA	ND	1.47	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFDoA	ND	0.851	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFTrDA	ND	0.531	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFTeDA	ND	0.811	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	141	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFHxA	IS	125	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C4-PFHpA	IS	125	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
18O2-PFHxS	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFOA	IS	106	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C8-PFOS	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C5-PFNA	IS	96.5	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFDA	IS	82.7	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
d3-MeFOSAA	IS	81.5	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFUnA	IS	82.3	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
d5-EtFOSAA	IS	107	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFDoA	IS	97.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFTeDA	IS	78.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	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.

Vista Analytical Laboratory

Sample ID: YS22-GW07-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 13:45

Laboratory Data

Lab Sample: 1701549-06
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	16.2	1.97	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHxA	13.0	2.40	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHpA	2.32	0.650	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHxS	52.7	1.04	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFOA	0.813	0.716	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFOS	3.37	0.887	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFNA	ND	0.891	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFDA	ND	1.64	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
MeFOSAA	ND	1.81	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFUnA	ND	1.15	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
EtFOSAA	ND	1.51	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFDoA	ND	0.871	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFTrDA	ND	0.543	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFTeDA	ND	0.830	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFHxA	IS	108	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C4-PFHpA	IS	118	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
18O2-PFHxS	IS	100	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFOA	IS	115	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C8-PFOS	IS	109	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C5-PFNA	IS	93.8	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFDA	IS	86.7	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
d3-MeFOSAA	IS	90.6	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFUnA	IS	90.4	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
d5-EtFOSAA	IS	84.9	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFDoA	IS	81.1	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFTeDA	IS	121	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	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: YS22-GW12-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 14:40

Laboratory Data

Lab Sample: 1701549-07
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	11.2	1.91	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHxA	18.3	2.32	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHpA	3.19	0.629	5.34	8.52	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHxS	98.8	1.01	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFOA	6.52	0.693	5.34	8.52	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFOS	132	0.859	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFNA	ND	0.862	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFDA	ND	1.59	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
MeFOSAA	ND	1.76	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFUnA	ND	1.12	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
EtFOSAA	ND	1.46	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFDoA	ND	0.843	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFTrDA	ND	0.526	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFTeDA	ND	0.804	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	125	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFHxA	IS	112	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C4-PFHpA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
18O2-PFHxS	IS	112	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFOA	IS	119	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C8-PFOS	IS	123	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C5-PFNA	IS	98.0	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFDA	IS	122	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
d3-MeFOSAA	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFUnA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
d5-EtFOSAA	IS	96.6	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFDoA	IS	93.9	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFTeDA	IS	116	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	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: YS22-GW12P-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 14:45

Laboratory Data

Lab Sample: 1701549-08
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	12.0	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHxA	22.7	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHpA	3.49	0.626	5.30	8.48	J	B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHxS	116	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFOA	6.66	0.690	5.30	8.48	J	B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFOS	132	0.855	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFNA	ND	0.858	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFDoA	ND	0.839	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFTrDA	ND	0.523	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	135	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFHxA	IS	110	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C4-PFHpA	IS	120	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
18O2-PFHxS	IS	104	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFOA	IS	114	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C8-PFOS	IS	128	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C5-PFNA	IS	121	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFDA	IS	97.5	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
d3-MeFOSAA	IS	102	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFUnA	IS	91.7	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
d5-EtFOSAA	IS	116	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFDoA	IS	126	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFTeDA	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	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.

Vista Analytical Laboratory

Sample ID: YS22-GW12A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 16:55

Laboratory Data

Lab Sample: 1701549-09
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHxA	ND	2.35	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHpA	ND	0.636	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHxS	ND	1.02	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFOA	ND	0.700	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFOS	ND	0.868	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFNA	ND	0.871	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFDA	ND	1.60	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
MeFOSAA	ND	1.78	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFUnA	ND	1.13	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
EtFOSAA	ND	1.47	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFDoA	ND	0.852	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFTrDA	ND	0.532	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFTeDA	ND	0.812	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	111	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFHxA	IS	116	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C4-PFHpA	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
18O2-PFHxS	IS	114	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFOA	IS	121	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C8-PFOS	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C5-PFNA	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFDA	IS	91.2	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
d3-MeFOSAA	IS	106	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFUnA	IS	91.4	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
d5-EtFOSAA	IS	85.7	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFDoA	IS	75.2	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFTeDA	IS	102	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	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: YS22-GW15-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 09:45

Laboratory Data

Lab Sample: 1701549-10
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.58	1.88	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHxA	4.80	2.28	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHpA	ND	0.619	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHxS	27.4	0.992	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFOA	1.58	0.682	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFOS	7.96	0.845	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFNA	ND	0.849	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFDA	ND	1.56	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
MeFOSAA	ND	1.73	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFUnA	ND	1.10	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
EtFOSAA	ND	1.44	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFDoA	ND	0.830	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFTrDA	ND	0.518	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFTeDA	ND	0.791	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	129	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFHxA	IS	109	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C4-PFHpA	IS	112	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
18O2-PFHxS	IS	98.1	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFOA	IS	124	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C8-PFOS	IS	124	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C5-PFNA	IS	91.3	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFDA	IS	92.4	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
d3-MeFOSAA	IS	77.7	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFUnA	IS	70.4	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
d5-EtFOSAA	IS	86.1	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFDoA	IS	76.2	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFTeDA	IS	117	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	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: YS22-GW15A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 12:50

Laboratory Data

Lab Sample: 1701549-11
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.87	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHxA	ND	2.28	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHpA	ND	0.619	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHxS	ND	0.992	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFOA	ND	0.682	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFOS	ND	0.845	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFNA	ND	0.848	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFDA	ND	1.56	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
MeFOSAA	ND	1.73	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFUnA	ND	1.10	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
EtFOSAA	ND	1.43	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFDoA	ND	0.829	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFTrDA	ND	0.517	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFTeDA	ND	0.791	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	146	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFHxA	IS	123	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C4-PFHpA	IS	114	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
18O2-PFHxS	IS	119	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFOA	IS	118	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C8-PFOS	IS	112	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C5-PFNA	IS	110	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFDA	IS	103	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
d3-MeFOSAA	IS	92.5	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFUnA	IS	102	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
d5-EtFOSAA	IS	96.9	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFDoA	IS	107	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFTeDA	IS	140	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	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.

Vista Analytical Laboratory

Sample ID: YS22-GW13-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 15:25

Laboratory Data

Lab Sample: 1701549-12
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	21.6	1.91	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHxA	38.3	2.33	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHpA	5.31	0.631	5.34	8.54	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHxS	157	1.01	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFOA	6.41	0.695	5.34	8.54	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFOS	23.4	0.861	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFNA	ND	0.865	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFDA	ND	1.59	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
MeFOSAA	ND	1.76	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFUnA	ND	1.12	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
EtFOSAA	ND	1.46	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFDoA	ND	0.845	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFTrDA	ND	0.527	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFTeDA	ND	0.806	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	141	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFHxA	IS	117	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C4-PFHpA	IS	107	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
18O2-PFHxS	IS	107	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFOA	IS	127	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C8-PFOS	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C5-PFNA	IS	96.4	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFDA	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
d3-MeFOSAA	IS	100	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFUnA	IS	96.6	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
d5-EtFOSAA	IS	92.8	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFDoA	IS	92.1	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFTeDA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	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.

Vista Analytical Laboratory

Sample ID: YS22-EB02-102517

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 16:05

Laboratory Data

Lab Sample: 1701549-13
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHxA	ND	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHpA	ND	0.627	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHxS	ND	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFOA	ND	0.690	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFOS	ND	0.856	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFNA	ND	0.859	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFDoA	ND	0.840	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFTrDA	ND	0.524	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	123	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFHxA	IS	112	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C4-PFHpA	IS	119	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
18O2-PFHxS	IS	101	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFOA	IS	133	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C8-PFOS	IS	113	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C5-PFNA	IS	110	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFDA	IS	82.4	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
d3-MeFOSAA	IS	96.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFUnA	IS	94.2	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
d5-EtFOSAA	IS	79.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFDoA	IS	86.6	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFTeDA	IS	109	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	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
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	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
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.

NELAP Accredited Test Methods

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

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

MATRIX: Drinking Water	
Description of Test	**Method**
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

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

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope	EPA 1613B

Dilution GC/HRMS	
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1701549 Temp: 0.2 °C
Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

Project ID: 680536 NWS Yorktown PO#: _____ Sampler: _____ (name)

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

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
Tammy Carey	CH2M					

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
			Marissa Sparks MSparks	10/26/17	0903
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

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

ATTN: _____

Method of Shipment: Fed Ex

Tracking No.: _____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Mod. EPA Method 537: PFOA/PFOS	UCMR3 PFAS List 6	537 List: 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only): PFOA/PFOS	UCMR3 PFAS List 6	PFAS List: 14	Comments
Site 22	102517	1250	VS22-GW15A-101717	2	AQ	GW			X						
↓	↓	1525	VS22-GW13-101717	2	↓	↓			X						
		1605	VS22-ET302-102517	2					X						

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
Name: _____
Company: _____
Address: _____
City: _____ State: ____ Zip: _____
Phone: _____ Fax: _____
Email: _____

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: GW = groundwater

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1701549 Temp: 0.2 °C
Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

Project ID: 680536 NWS Yorktown PO#: _____ Sampler: Allyson Shwartz (name)

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

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
Tammy Carey	CH2M				850-396-4928	

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Allyson Shwartz	10-25-17	1900	Marissa Sparks	10/26/17	0902
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

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

ATTN: _____

Method of Shipment: _____

Tracking No.: _____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Mod. EPA Method 537: PFOA/PFOS	UCMR3 PFAS List 6	537 List 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only): PFOA/PFOS	UCMR3 PFAS List 6	PFAS List 14	Comments
Site 22	10-23-17	1640	YS22-GW11-1017	2	P	GW			X						
	10-23-17	1815	YS22-GW11A-1017						X						
	10-23-17	1800	YS22-EB01-102317						X						
	10-24-17	1100	YS22-GW06-1017						X						MS/MSD
	10-24-17	1135	YS22-GW04-1017						X						
	10-24-17	1345	YS22-GW07-1017						X						
	10-24-17	1440	YS22-GW12-1017						X						
	10-24-17	1445	YS22-GW12P-1017						X						
	10-24-17	1655	YS22-GW12A-1017						X						
	10-25-17	0945	YS22-GW15-1017						X						

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
Name: Tammy Carey
Company: _____
Address: _____
City: _____ State: ____ Zip: _____
Phone: _____ Fax: _____
Email: Tammy.Carey@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: GW = groundwater

Vista Analytical Laboratory

Sample Log-in Checklist

MWS 10/26/17

Vista Work Order #: 1701549 **TAT** ~~std~~ 28 days

Samples Arrival:	**Date/Time** 10/26/17 0844	**Initials:** MWS	**Location:** WR-2 **Shelf/Rack:** N/a
Logged In:	**Date/Time** 10/26/17 1014	**Initials:** MWS	**Location:** WR-2 **Shelf/Rack:** F-5

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

Temp °C: 0.1 (uncorrected)	**Time:** 0902	**Thermometer ID:** IR-1
Temp °C: 0.2 (corrected)	**Probe used:** Yes☐ No☒	

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 7882 1492 2580	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?			✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓

Preservation Documented:	$Na_2S_2O_3$	Trizma	None	Yes	No	NA
Shipping Container	Vista	Client	Retain	Return	Dispose	

Comments:

November 27, 2017

Vista Work Order No. 1701549

Ms. Tammy Carey
CH2M Hill
25 West Cedar Street, Suite 350
Pensacola, FL 32502

Dear Ms. Carey,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 26, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name '680536 NWSYorktown'.

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,

Karen J. Volpendesta for

Martha Maier
Laboratory Director

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

Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

Vista Work Order No. 1701549
Case Narrative

Sample Condition on Receipt:

Thirteen groundwater 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:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

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

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The recovery of PFNA was 67.4% in the OPR, which is less than the acceptance limit of 70%. The recoveries of all other compounds were within the method acceptance criteria

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

As requested, an MS/MSD was performed on sample "YS22-GW06-1017". The recovery and/or RPD of PFNA and PFTrDA were outside of the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701549-01	YS22-GW11-1017	23-Oct-17 16:40	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-02	YS22-GW11A-1017	23-Oct-17 18:15	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-03	YS22-EB01-102317	23-Oct-17 18:00	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-04	YS22-GW06-1017	MS/MSD24-Oct-17 11:00	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-05	YS22-GW04-1017	24-Oct-17 11:35	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-06	YS22-GW07-1017	24-Oct-17 13:45	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-07	YS22-GW12-1017	24-Oct-17 14:40	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-08	YS22-GW12P-1017	24-Oct-17 14:45	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-09	YS22-GW12A-1017	24-Oct-17 16:55	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-10	YS22-GW15-1017	25-Oct-17 09:45	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-11	YS22-GW15A-1017	25-Oct-17 12:50	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-12	YS22-GW13-1017	25-Oct-17 15:25	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1701549-13	YS22-EB02-102517	25-Oct-17 16:05	26-Oct-17 08:44	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Matrix: Aqueous

Laboratory Data

Lab Sample: B7J0197-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.79	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFHxA	ND	2.18	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFHpA	ND	0.591	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFHxS	ND	0.947	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFOA	ND	0.651	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFOS	ND	0.807	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFNA	ND	0.810	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFDA	ND	1.49	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
MeFOSAA	ND	1.65	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFUnA	ND	1.05	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
EtFOSAA	ND	1.37	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFDoA	ND	0.792	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFTrDA	ND	0.494	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
PFTeDA	ND	0.755	5.00	8.00		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	106	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFHxA	IS	102	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C4-PFHpA	IS	108	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
18O2-PFHxS	IS	88.9	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFOA	IS	105	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C8-PFOS	IS	105	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C5-PFNA	IS	92.5	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFDA	IS	73.0	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
d3-MeFOSAA	IS	70.8	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFUnA	IS	91.0	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
d5-EtFOSAA	IS	80.7	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFDoA	IS	98.7	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	1
13C2-PFTeDA	IS	129	50 - 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 23:00	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: OPR

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Matrix: Aqueous

Laboratory Data

Lab Sample: B7J0197-BS1
Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	68.4	80.0	85.5	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFHxA	68.0	80.0	85.0	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFHpA	67.1	80.0	83.9	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFHxS	59.1	80.0	73.9	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFOA	75.2	80.0	94.0	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFOS	81.4	80.0	102	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFNA	53.9	80.0	67.4	70-130	H	B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFDA	83.4	80.0	104	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
MeFOSAA	67.4	80.0	84.2	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFUnA	57.4	80.0	71.7	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
EtFOSAA	68.1	80.0	85.1	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFDoA	65.5	80.0	81.9	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFTrDA	79.0	80.0	98.7	60-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
PFTeDA	56.6	80.0	70.7	70-130		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	117	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFHxA	IS	113	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C4-PFHpA	IS	114	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
18O2-PFHxS	IS	121	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFOA	IS	110	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C8-PFOS	IS	107	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C5-PFNA	IS	116	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFDA	IS	94.9	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
d3-MeFOSAA	IS	79.5	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFUnA	IS	75.5	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
d5-EtFOSAA	IS	85.8	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFDoA	IS	84.3	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1
13C2-PFTeDA	IS	129	50- 150		B7J0197	30-Oct-17	0.125 L	01-Nov-17 22:03	1

Sample ID: YS22-GW11-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 16:40

Laboratory Data

Lab Sample: 1701549-01
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHxA	ND	2.32	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHpA	ND	0.630	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHxS	12.8	1.01	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFOA	ND	0.693	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFOS	ND	0.860	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFNA	ND	0.863	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFDA	ND	1.59	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
MeFOSAA	ND	1.76	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFUnA	ND	1.12	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
EtFOSAA	ND	1.46	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFDoA	ND	0.844	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFTrDA	ND	0.526	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFTeDA	ND	0.804	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFHxA	IS	111	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C4-PFHpA	IS	133	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
18O2-PFHxS	IS	115	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFOA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C8-PFOS	IS	111	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C5-PFNA	IS	86.1	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFDA	IS	98.9	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
d3-MeFOSAA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFUnA	IS	93.7	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
d5-EtFOSAA	IS	95.3	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFDoA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFTeDA	IS	120	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	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: YS22-GW11A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 18:15

Laboratory Data

Lab Sample: 1701549-02
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHxA	ND	2.35	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHpA	ND	0.636	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHxS	ND	1.02	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFOA	ND	0.700	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFOS	ND	0.868	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFNA	ND	0.872	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFDA	ND	1.60	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
MeFOSAA	ND	1.78	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFUnA	ND	1.13	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
EtFOSAA	ND	1.47	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFDoA	ND	0.852	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFTrDA	ND	0.532	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFTeDA	ND	0.812	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	132	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFHxA	IS	113	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C4-PFHpA	IS	113	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
18O2-PFHxS	IS	103	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFOA	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C8-PFOS	IS	139	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C5-PFNA	IS	90.9	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFDA	IS	83.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
d3-MeFOSAA	IS	81.3	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFUnA	IS	111	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
d5-EtFOSAA	IS	105	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFDoA	IS	108	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFTeDA	IS	142	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	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: YS22-EB01-102317

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 18:00

Laboratory Data

Lab Sample: 1701549-03
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHxA	ND	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHpA	ND	0.626	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHxS	ND	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFOA	ND	0.690	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFOS	ND	0.855	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFNA	ND	0.859	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFDoA	ND	0.840	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFTrDA	ND	0.524	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFHxA	IS	108	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C4-PFHpA	IS	123	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
18O2-PFHxS	IS	102	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFOA	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C8-PFOS	IS	89.9	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C5-PFNA	IS	94.1	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFDA	IS	83.4	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
d3-MeFOSAA	IS	86.0	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFUnA	IS	84.6	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
d5-EtFOSAA	IS	85.2	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFDoA	IS	98.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFTeDA	IS	109	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	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: YS22-GW06-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 11:00

Laboratory Data

Lab Sample: 1701549-04
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.86	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHxA	ND	2.27	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHpA	ND	0.615	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHxS	7.88	0.985	5.21	8.33	J	B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFOA	ND	0.677	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFOS	ND	0.840	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFNA	ND	0.843	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFDA	ND	1.55	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
MeFOSAA	ND	1.72	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFUnA	ND	1.09	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
EtFOSAA	ND	1.43	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFDoA	ND	0.824	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFTrDA	ND	0.514	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFTeDA	ND	0.786	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	145	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFHxA	IS	120	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C4-PFHpA	IS	122	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
18O2-PFHxS	IS	109	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFOA	IS	134	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C8-PFOS	IS	104	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C5-PFNA	IS	102	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFDA	IS	91.5	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
d3-MeFOSAA	IS	91.3	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFUnA	IS	104	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
d5-EtFOSAA	IS	93.8	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFDoA	IS	111	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFTeDA	IS	148	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	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: YS22-GW06-1017 — Modified EPA Method 537

Name:	CH2M Hill	Lab Sample:	B7J0197-MS1/B7J0197-MSD1	Source Lab Sample:	1701549-04
Project:	680536 NWSYorktown	QC Batch:	B7J0197	Date Extracted:	30-Oct-17
Matrix:	Aqueous	Samp Size:	0.117/0.120 L	Column:	BEH C18

Analyte	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	ND	74.1	85.8	85.2		70.3	83.4	83.1	2.50		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFHxA	ND	74.3	85.8	86.5		74.6	83.4	89.5	3.41		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFHpA	ND	75.7	85.8	88.2		72.0	83.4	86.3	2.18		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFHxS	7.88	75.5	85.8	78.8		80.2	83.4	86.7	9.55		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFOA	ND	78.5	85.8	91.5		83.7	83.4	100	8.88		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFOS	ND	79.1	85.8	92.2		87.7	83.4	105	13.0		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFNA	ND	57.6	85.8	67.1	H	67.3	83.4	80.7	18.4		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFDA	ND	73.0	85.8	85.1		70.6	83.4	84.7	0.471		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
MeFOSAA	ND	94.3	85.8	110		88.6	83.4	106	3.70		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFUnA	ND	78.8	85.8	91.8		77.4	83.4	92.8	1.08		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
EtFOSAA	ND	72.8	85.8	84.9		65.8	83.4	78.9	7.33		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFDoA	ND	65.2	85.8	76.0		68.9	83.4	82.6	8.32		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFTrDA	ND	75.2	85.8	87.7		106	83.4	127	36.6	H	60-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1
PFTeDA	ND	75.2	85.8	87.6		74.5	83.4	89.3	1.92		70-130		01-Nov-17 23:45	1	01-Nov-17 23:56	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	115		138		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFHxA	IS	110		116		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C4-PFHpA	IS	112		118		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
18O2-PFHxS	IS	99.5		106		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFOA	IS	123		105		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C8-PFOS	IS	126		103		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C5-PFNA	IS	125		89.0		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFDA	IS	99.5		96.0		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
d3-MeFOSAA	IS	86.5		77.5		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFUnA	IS	84.8		85.2		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
d5-EtFOSAA	IS	93.4		96.8		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFDoA	IS	93.2		80.9		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1
13C2-PFTeDA	IS	113		106		50-150	01-Nov-17 23:45	1	01-Nov-17 23:56	1

Sample ID: YS22-GW04-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 11:35

Laboratory Data

Lab Sample: 1701549-05
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.92	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHxA	ND	2.34	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHpA	ND	0.635	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHxS	9.13	1.02	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFOA	1.84	0.700	5.39	8.60	J	B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFOS	82.9	0.867	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFNA	ND	0.870	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFDA	ND	1.60	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
MeFOSAA	ND	1.77	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFUnA	ND	1.13	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
EtFOSAA	ND	1.47	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFDoA	ND	0.851	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFTrDA	ND	0.531	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFTeDA	ND	0.811	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	141	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFHxA	IS	125	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C4-PFHpA	IS	125	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
18O2-PFHxS	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFOA	IS	106	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C8-PFOS	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C5-PFNA	IS	96.5	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFDA	IS	82.7	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
d3-MeFOSAA	IS	81.5	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFUnA	IS	82.3	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
d5-EtFOSAA	IS	107	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFDoA	IS	97.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFTeDA	IS	78.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	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: YS22-GW07-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 13:45

Laboratory Data

Lab Sample: 1701549-06
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	16.2	1.97	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHxA	13.0	2.40	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHpA	2.32	0.650	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHxS	52.7	1.04	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFOA	0.813	0.716	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFOS	3.37	0.887	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFNA	ND	0.891	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFDA	ND	1.64	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
MeFOSAA	ND	1.81	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFUnA	ND	1.15	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
EtFOSAA	ND	1.51	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFDoA	ND	0.871	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFTrDA	ND	0.543	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFTeDA	ND	0.830	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFHxA	IS	108	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C4-PFHpA	IS	118	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
18O2-PFHxS	IS	100	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFOA	IS	115	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C8-PFOS	IS	109	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C5-PFNA	IS	93.8	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFDA	IS	86.7	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
d3-MeFOSAA	IS	90.6	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFUnA	IS	90.4	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
d5-EtFOSAA	IS	84.9	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFDoA	IS	81.1	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFTeDA	IS	121	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	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: YS22-GW12-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 14:40

Laboratory Data

Lab Sample: 1701549-07
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	11.2	1.91	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHxA	18.3	2.32	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHpA	3.19	0.629	5.34	8.52	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHxS	98.8	1.01	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFOA	6.52	0.693	5.34	8.52	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFOS	132	0.859	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFNA	ND	0.862	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFDA	ND	1.59	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
MeFOSAA	ND	1.76	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFUnA	ND	1.12	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
EtFOSAA	ND	1.46	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFDoA	ND	0.843	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFTrDA	ND	0.526	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFTeDA	ND	0.804	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	125	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFHxA	IS	112	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C4-PFHpA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
18O2-PFHxS	IS	112	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFOA	IS	119	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C8-PFOS	IS	123	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C5-PFNA	IS	98.0	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFDA	IS	122	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
d3-MeFOSAA	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFUnA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
d5-EtFOSAA	IS	96.6	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFDoA	IS	93.9	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFTeDA	IS	116	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	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: YS22-GW12P-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 14:45

Laboratory Data

Lab Sample: 1701549-08
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	12.0	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHxA	22.7	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHpA	3.49	0.626	5.30	8.48	J	B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHxS	116	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFOA	6.66	0.690	5.30	8.48	J	B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFOS	132	0.855	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFNA	ND	0.858	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFDoA	ND	0.839	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFTrDA	ND	0.523	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	135	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFHxA	IS	110	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C4-PFHpA	IS	120	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
18O2-PFHxS	IS	104	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFOA	IS	114	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C8-PFOS	IS	128	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C5-PFNA	IS	121	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFDA	IS	97.5	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
d3-MeFOSAA	IS	102	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFUnA	IS	91.7	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
d5-EtFOSAA	IS	116	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFDoA	IS	126	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFTeDA	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	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: YS22-GW12A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 16:55

Laboratory Data

Lab Sample: 1701549-09
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHxA	ND	2.35	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHpA	ND	0.636	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHxS	ND	1.02	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFOA	ND	0.700	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFOS	ND	0.868	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFNA	ND	0.871	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFDA	ND	1.60	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
MeFOSAA	ND	1.78	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFUnA	ND	1.13	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
EtFOSAA	ND	1.47	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFDoA	ND	0.852	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFTrDA	ND	0.532	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFTeDA	ND	0.812	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	111	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFHxA	IS	116	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C4-PFHpA	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
18O2-PFHxS	IS	114	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFOA	IS	121	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C8-PFOS	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C5-PFNA	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFDA	IS	91.2	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
d3-MeFOSAA	IS	106	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFUnA	IS	91.4	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
d5-EtFOSAA	IS	85.7	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFDoA	IS	75.2	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFTeDA	IS	102	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	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: YS22-GW15-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 09:45

Laboratory Data

Lab Sample: 1701549-10
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.58	1.88	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHxA	4.80	2.28	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHpA	ND	0.619	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHxS	27.4	0.992	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFOA	1.58	0.682	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFOS	7.96	0.845	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFNA	ND	0.849	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFDA	ND	1.56	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
MeFOSAA	ND	1.73	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFUnA	ND	1.10	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
EtFOSAA	ND	1.44	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFDoA	ND	0.830	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFTrDA	ND	0.518	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFTeDA	ND	0.791	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	129	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFHxA	IS	109	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C4-PFHpA	IS	112	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
18O2-PFHxS	IS	98.1	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFOA	IS	124	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C8-PFOS	IS	124	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C5-PFNA	IS	91.3	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFDA	IS	92.4	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
d3-MeFOSAA	IS	77.7	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFUnA	IS	70.4	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
d5-EtFOSAA	IS	86.1	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFDoA	IS	76.2	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFTeDA	IS	117	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	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: YS22-GW15A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 12:50

Laboratory Data

Lab Sample: 1701549-11
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.87	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHxA	ND	2.28	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHpA	ND	0.619	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHxS	ND	0.992	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFOA	ND	0.682	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFOS	ND	0.845	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFNA	ND	0.848	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFDA	ND	1.56	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
MeFOSAA	ND	1.73	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFUnA	ND	1.10	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
EtFOSAA	ND	1.43	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFDoA	ND	0.829	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFTrDA	ND	0.517	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFTeDA	ND	0.791	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	146	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFHxA	IS	123	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C4-PFHpA	IS	114	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
18O2-PFHxS	IS	119	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFOA	IS	118	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C8-PFOS	IS	112	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C5-PFNA	IS	110	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFDA	IS	103	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
d3-MeFOSAA	IS	92.5	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFUnA	IS	102	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
d5-EtFOSAA	IS	96.9	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFDoA	IS	107	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFTeDA	IS	140	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	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: YS22-GW13-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 15:25

Laboratory Data

Lab Sample: 1701549-12
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	21.6	1.91	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHxA	38.3	2.33	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHpA	5.31	0.631	5.34	8.54	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHxS	157	1.01	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFOA	6.41	0.695	5.34	8.54	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFOS	23.4	0.861	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFNA	ND	0.865	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFDA	ND	1.59	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
MeFOSAA	ND	1.76	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFUnA	ND	1.12	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
EtFOSAA	ND	1.46	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFDoA	ND	0.845	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFTrDA	ND	0.527	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFTeDA	ND	0.806	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	141	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFHxA	IS	117	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C4-PFHpA	IS	107	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
18O2-PFHxS	IS	107	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFOA	IS	127	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C8-PFOS	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C5-PFNA	IS	96.4	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFDA	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
d3-MeFOSAA	IS	100	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFUnA	IS	96.6	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
d5-EtFOSAA	IS	92.8	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFDoA	IS	92.1	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFTeDA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	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: YS22-EB02-102517

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 16:05

Laboratory Data

Lab Sample: 1701549-13
Date Received: 26-Oct-17 08:44
Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHxA	ND	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHpA	ND	0.627	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHxS	ND	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFOA	ND	0.690	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFOS	ND	0.856	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFNA	ND	0.859	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFDoA	ND	0.840	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFTrDA	ND	0.524	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	123	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFHxA	IS	112	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C4-PFHpA	IS	119	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
18O2-PFHxS	IS	101	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFOA	IS	133	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C8-PFOS	IS	113	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C5-PFNA	IS	110	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFDA	IS	82.4	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
d3-MeFOSAA	IS	96.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFUnA	IS	94.2	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
d5-EtFOSAA	IS	79.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFDoA	IS	86.6	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFTeDA	IS	109	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	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
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	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
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.

NELAP Accredited Test Methods

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

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

MATRIX: Drinking Water	
Description of Test	**Method**
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

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

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope	EPA 1613B

Dilution GC/HRMS	
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1701549 Temp: 0.2 °C
Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

Project ID: 680536 NWS Yorktown PO#: _____ Sampler: _____ (name)

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

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
Tammy Carey	CH2M					

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
			Marissa Sparks MSparks	10/26/17	0903
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

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

ATTN: _____

Method of Shipment: Fed Ex

Tracking No.: _____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Mod. EPA Method 537: PFOA/PFOS	UCMR3 PFAS List 6	537 List: 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only): PFOA/PFOS	UCMR3 PFAS List 6	PFAS List: 14	Comments
Site 22	102517	1250	VS22-GW15A-101717	2	AQ	GW			X						
↓	↓	1525	VS22-GW13-101717	2	↓	↓			X						
		1605	VS22-ET302-102517	2					X						

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
Name: _____
Company: _____
Address: _____
City: _____ State: ____ Zip: _____
Phone: _____ Fax: _____
Email: _____

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: GW = groundwater

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1701549 Temp: 0.2 °C
Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

Project ID: 680536 NWS Yorktown PO#: _____ Sampler: Allyson Shuwarte (name)

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

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
Tammy Carey	CH2M				850-396-4928	

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Allyson Shuwarte	10-25-17	1900	Marissa Sparks	10/26/17	0902
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

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

Method of Shipment: _____
Tracking No.: _____
ATTN: _____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Mod. EPA Method 537: PFOA/PFOS	UCMR3 PFAS List 6	537 List 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only): PFOA/PFOS	UCMR3 PFAS List 6	PFAS List 14	Comments
Site 22	10-23-17	1640	YS22-GW11-1017	2	P	GW			X						
	10-23-17	1815	YS22-GW11A-1017						X						
	10-23-17	1800	YS22-EB01-102317						X						
	10-24-17	1100	YS22-GW06-1017						X						MS/MSD
	10-24-17	1135	YS22-GW04-1017						X						
	10-24-17	1345	YS22-GW07-1017						X						
	10-24-17	1440	YS22-GW12-1017						X						
	10-24-17	1445	YS22-GW12P-1017						X						
	10-24-17	1655	YS22-GW12A-1017						X						
	10-25-17	0945	YS22-GW15-1017						X						

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
Name: Tammy Carey
Company: _____
Address: _____
City: _____ State: ____ Zip: _____
Phone: _____ Fax: _____
Email: Tammy.Carey@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: GW = groundwater

Vista Analytical Laboratory

Sample Log-in Checklist

MWS 10/26/17

Vista Work Order #: 1701549 **TAT** ~~stg~~ 28 days

Samples Arrival:	**Date/Time** 10/26/17 0844	**Initials:** MWS	**Location:** WR-2 **Shelf/Rack:** N/a
Logged In:	**Date/Time** 10/26/17 1014	**Initials:** MWS	**Location:** WR-2 **Shelf/Rack:** F-5

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

Temp °C: 0.1 (uncorrected)	**Time:** 0902	**Thermometer ID:** IR-1
Temp °C: 0.2 (corrected)	**Probe used:** Yes☐ No☒	

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 7882 1492 2580	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?			✓	✓

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

Comments:

EXTRACTION INFORMATION

Process Sheet

Workorder: 1701549

Prep Expiration: 2017-Nov-06
Client: CH2M Hill

Workorder Due: 23-Nov-17 00:00

TAT: 28

Method: **537M PFAS DOD (LOQ as mRL)**
Matrix: **Aqueous**

Prep Batch: B7J0197

Prep Data Entered: 10.31.17 7/2
Date and Initials

Version: 537 (14 Analyte)
DoD: DoD QSM 5.1

Initial Sequence:

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701549-01	A	☑	☑	YS22-GW11-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-02		☐	☐	YS22-GW11A-1017 "YS22-GW11A-0017"		WR-2 F-5	HDPE Bottle, 125 mL
1701549-03		☑	☑	YS22-EB01-102317		WR-2 F-5	HDPE Bottle, 125 mL
1701549-04	A,B,C	☑	☑	YS22-GW06-1017	**MS/MSD**	WR-2 F-5	HDPE Bottle, 125 mL
1701549-05	A	☑	☑	YS22-GW04-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-06		☑	☑	YS22-GW07-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-07		☑	☑	YS22-GW12-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-08		☑	☑	YS22-GW12P-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-09		☑	☑	YS22-GW12A-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-10		☑	☑	YS22-GW15-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-11		☑	☑	YS22-GW15A-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-12		☑	☑	YS22-GW13-1017		WR-2 F-5	HDPE Bottle, 125 mL
1701549-13		☑	☑	YS22-EB02-102517		WR-2 F-5	HDPE Bottle, 125 mL

WO Comments: **MS/MSD at least one per batch.**

Pre-Prep Check Out: KC 10/30/17
Pre-Prep Check In: NA

Prep Check Out: NA
Prep Check In: NA

Prep Reconciled Initals/Date: KC 10/30/17
Spike Reconciled Initals/Date: 7/2 10.30.17
VialBoxID:

Page 1 of 2

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7J0197

Chemist: KC

Prep Date/Time: 30-Oct-17 07:41 ~~1000~~ 1100 KC 10/30/17 KC 10/30/17

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initals: KC 10/30/17 BalanceID: HRMS-8

Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	B7J0197-BLK1	5	2	0	2	NA	NA	(0.125) ✓	KC 10/30/17	KC 10/30/17	KC HN 10/30/17
☐	B7J0197-BS1	5	2	0	2	↓	↓	(0.125 ✓	↓	↓	↓
☐	B7J0197-MS1 1701549-04	6	2	0	4	143.58	27.00	0.11658 ✓			
☐	B7J0197-MSD1 1701549-04	6	2	0	4	146.87	26.91	0.11996 ✓			
☐	1701549-01	6	2	0	4	144.33	26.99	0.11734 ✓			
☐	1701549-02	6	2	0	2	143.08	26.91	0.11617 ✓			
☐	1701549-03	5	2	0	2	144.83	26.91	0.11792 ✓			
☐	1701549-04	6	2	0	4	147.07	26.95	0.12012 ✓			
☐	1701549-05	5	2	0	2	143.27	26.94	0.11633 ✓			
☐	1701549-06	6	2	0	4	140.74	27.04	0.11370 ✓			
☐	1701549-07	6	2	0	4	144.35	26.93	0.11742 ✓			
☐	1701549-08	6	2	0	4	144.81	26.84	0.11797 ✓			
☐	1701549-09	6	2	0	2	143.03	26.95	0.11618 ✓			
☐	1701549-10	6	2	0	2	146.23	26.91	0.11932 ✓			
☐	1701549-11	6	2	0	3	146.28	26.92	0.11936 ✓			
☐	1701549-12	6	2	0	4	144.09	26.98	0.11711 ✓			

IS: 17I3002, 10µL (V2)

IS SUP: NA

NS: 17J1820, 10µL (V5)

RS: 17J2604, 10µL (V5)

SPE Chem: Strata-X-AW 33µm 200mg 6mL

Ele SOLV: MeOH/.5%NH4OH in MeOH

Final Volume(s) 1mL

Notes:

Comments: Assume 1 g = 1 mL

Cen = Centrifuged

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7J0197

Chemist: KC

Prep Date/Time: 30-Oct-17 ~~07:41~~ ~~10:00~~ 11:00 KC 10/30/17 KC 10/30/17

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initals: KC 10/30/17 BalanceID: HRMS-8

Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	1701549-13	5	2	0	2	144.78	26.87	0.11791	KC KC 10/30/17	KC 10/30/17	KC HN 10/30/17

IS: 17I3002, 10µL (V2)

IS SUP: NA

NS: 17J1820, 10µL (V5)

RS: 17J1604, 10µL (V5)

SPE Chem: Strata-X-AW 33µm 200mg/6mL

Ele SOLV: MeOH · 5% NH4OH in MeOH

Final Volume(s) 1mL

Notes:

Comments: Assume 1 g = 1 mL

Cen = Centrifuged

Batch: B7J0197

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701549-01	0.11734	NA	NA	1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-02	0.11617			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-03	0.11792			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-04	0.12012			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-05	0.11633			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-06	0.1137			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-07	0.11742			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-08	0.11797			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-09	0.11618			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-10	0.11932			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-11	0.11936			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-12	0.11711			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
1701549-13	0.11791			1000	30-Oct-17 11:00	KC			Groundwater	537M PFAS DOD (LOQ as
B7J0197-BLK1	0.125			1000	30-Oct-17 11:00	KC				QC
B7J0197-BS1	0.125			1000	30-Oct-17 11:00	KC	17J1820	10		QC
B7J0197-MS1	0.11658			1000	30-Oct-17 11:00	KC	17J1820	10		QC
B7J0197-MSD1	0.11996			1000	30-Oct-17 11:00	KC	17J1820	10		QC

HC
10.31.17

SAMPLE DATA – MODIFIED EPA METHOD 537

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:21 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.24e2	0.12500		2.44				
2	4	PFHxA	313.2 > 268.9		2.34e3	0.12500		2.93				
3	5	PFHpA	363.0 > 318.9		5.81e3	0.12500		3.56				
4	6	L-PFHxS	398.9 > 79.6	2.56e0	5.72e2	0.12500		3.71	3.63	0.0559		
5	9	L-PFOA	413 > 368.7	2.17e2	7.63e3	0.12500		4.05	4.00	0.356	0.450	
6	12	PFNA	463.0 > 418.8		6.92e3	0.12500		4.55				
7	14	L-PFOS	499 > 79.9		1.65e3	0.12500		4.63				
8	16	PFDA	513 > 468.8		5.33e3	0.12500		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.20e3	0.12500		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.73e3	0.12500		5.24				
11	20	PFUdA	563.0 > 518.9		7.56e3	0.12500		5.25				
12	22	PFDoA	612.9 > 569.0		8.39e3	0.12500		5.55				

MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		8.39e3	0.12500		5.80				
2	25	PFTeDA	712.9 > 668.8		1.03e4	0.12500		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.53e3	6.27e3	0.12500	0.884	1.17	1.09	11.0	99.771	99.8
4	32	13C3-PFPeA	266. > 221.8	6.01e3	8.21e3	0.12500	0.727	2.15	2.05	9.15	100.699	100.7
5	33	13C3-PFBS	302. > 98.8	7.24e2	8.21e3	0.12500	0.083	2.44	2.34	1.10	106.434	106.4
6	34	13C2-PFHxA	315 > 269.8	2.34e3	8.21e3	0.12500	0.703	2.93	2.84	3.57	40.590	101.5
7	35	13C4-PFHpA	367.2 > 321.8	5.81e3	8.21e3	0.12500	0.656	3.56	3.46	8.85	107.877	107.9
8	36	18O2-PFHxS	403.0 > 102.6	5.72e2	1.58e3	0.12500	0.408	3.71	3.62	4.53	88.863	88.9
9	37	13C2-6:2 FTS	429.1 > 408.9	1.52e3	6.79e3	0.12500	0.243	4.03	3.93	2.80	92.046	92.0
10	38	13C2-PFOA	414.9 > 369.7	7.63e3	6.79e3	0.12500	1.076	4.05	3.99	14.1	104.565	104.6
11	39	13C5-PFNA	468.2 > 422.9	6.92e3	8.18e3	0.12500	0.914	4.55	4.44	10.6	92.494	92.5
12	40	13C8-PFOSA	506.1 > 77.7	1.02e3	8.60e3	0.12500	0.211	4.59	4.50	1.48	56.262	56.3
13	41	13C8-PFOS	507.0 > 79.9	1.65e3	1.60e3	0.12500	0.982	4.63	4.53	12.9	104.785	104.8
14	42	13C2-PFDA	515.1 > 469.9	5.33e3	8.19e3	0.12500	0.891	4.92	4.82	8.13	72.969	73.0
15	43	13C2-8:2 FTS	529.1 > 508.7	1.19e3	8.19e3	0.12500	0.198	4.89	4.79	1.81	72.991	73.0
16	44	d3-N-MeFOSAA	573.3 > 419	2.20e3	8.60e3	0.12500	0.361	5.08	4.98	3.19	70.813	70.8
17	45	d5-N-EtFOSAA	589.3 > 419	2.73e3	8.60e3	0.12500	0.394	5.24	5.14	3.97	80.655	80.7
18	46	13C2-PFUdA	565 > 519.8	7.56e3	8.60e3	0.12500	0.966	5.25	5.16	11.0	90.972	91.0
19	47	13C2-PFDoA	615.0 > 569.7	8.39e3	8.60e3	0.12500	0.989	5.55	5.45	12.2	98.678	98.7
20	49	13C2-PFTeDA	714.8 > 669.6	1.03e4	8.60e3	0.12500	0.927	6.02	5.93	14.9	128.877	128.9
21	54	13C4-PFBA	217. > 171.8	6.27e3	6.27e3	0.12500	1.000	1.17	1.10	12.5	100.000	100.0
22	55	13C5-PFHxA	318 > 272.9	8.21e3	8.21e3	0.12500	1.000	2.93	2.84	12.5	100.000	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.58e3	1.58e3	0.12500	1.000	3.71	3.62	12.5	100.000	100.0
24	57	13C8-PFOA	421.3 > 376	6.79e3	6.79e3	0.12500	1.000	4.05	4.00	12.5	100.000	100.0
25	58	13C9-PFNA	472.2 > 426.9	8.18e3	8.18e3	0.12500	1.000	4.55	4.44	12.5	100.000	100.0
26	59	13C4-PFOS	503 > 79.9	1.60e3	1.60e3	0.12500	1.000	4.63	4.53	12.5	100.000	100.0
27	60	13C6-PFDA	519.1 > 473.7	8.19e3	8.19e3	0.12500	1.000	4.92	4.83	12.5	100.000	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.60e3	8.60e3	0.12500	1.000	5.25	5.16	12.5	100.000	100.0
29	62	Total PFHxS	398.9 > 79.6	2.56e0	5.72e2	0.12500		3.71		0.000		
30	63	Total PFOA	413 > 368.7	2.17e2	7.63e3	0.12500		4.05		0.356	0.450	
31	64	Total PFOS	499 > 79.9	0.00e0	1.65e3	0.12500		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.20e3	0.12500		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.73e3	0.12500		5.24		0.000		

MJT11/27/2017

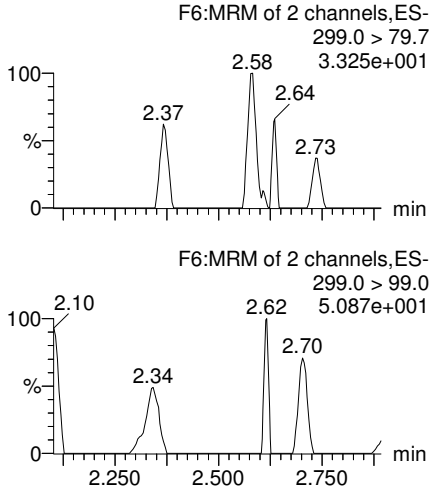
Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

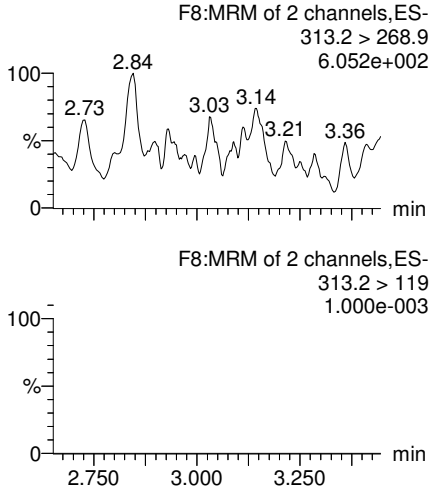
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

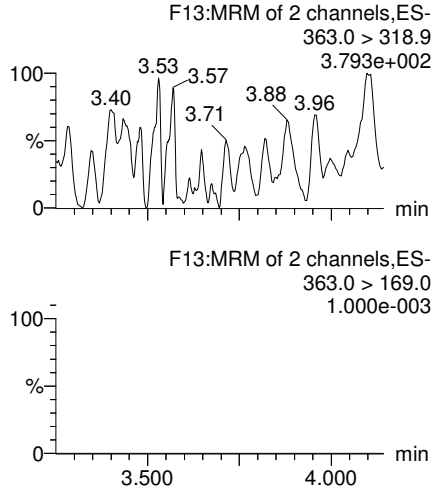
PFBS



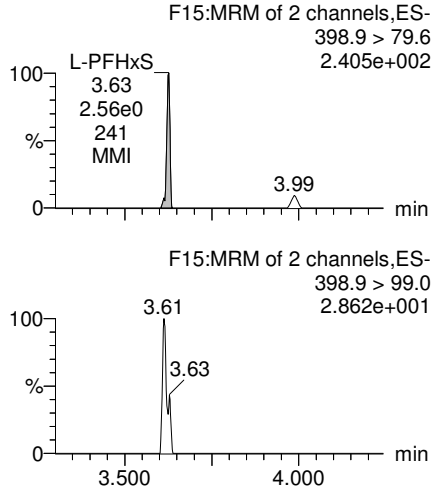
PFHxA



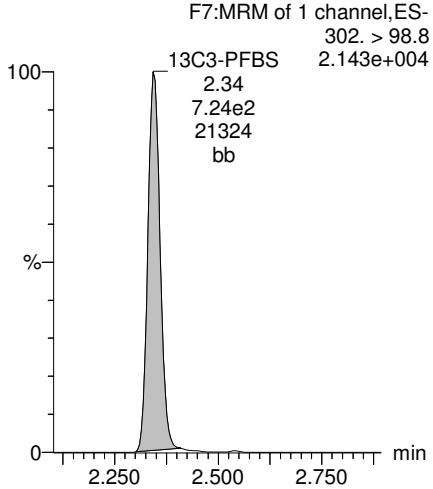
PFHpA



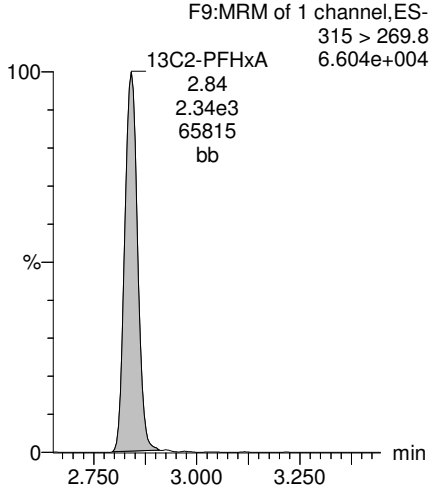
Total PFHxS



13C3-PFBS



13C2-PFHxA



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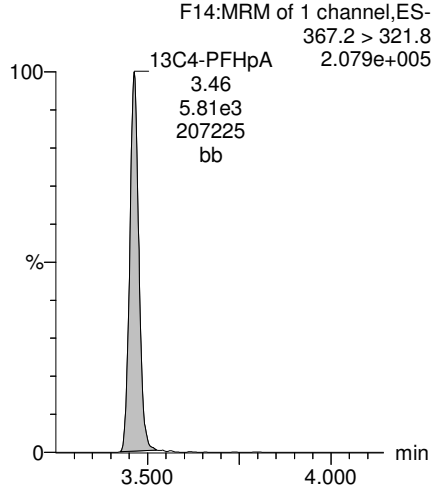

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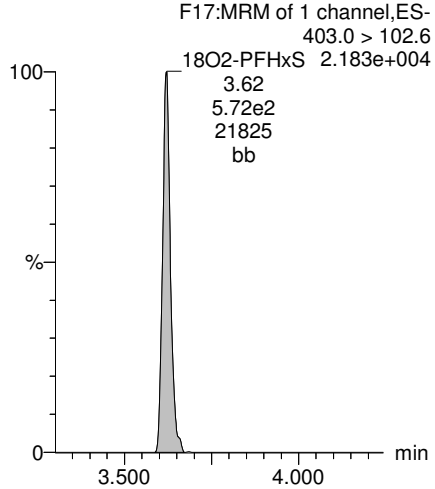


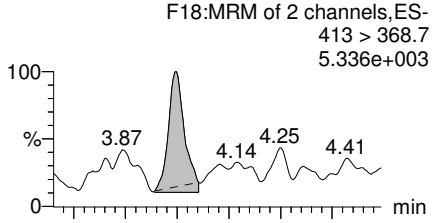
MJT11/27/2017

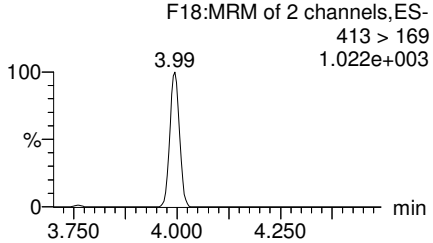
Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

Total PFOA





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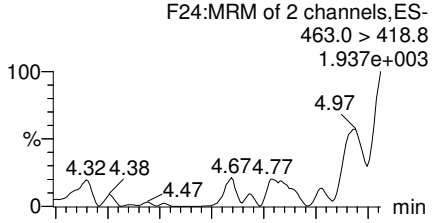
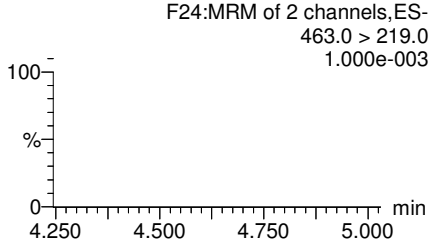
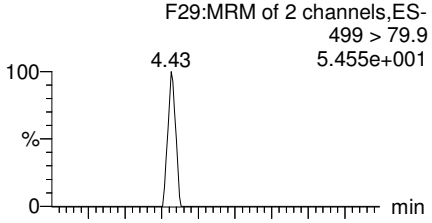
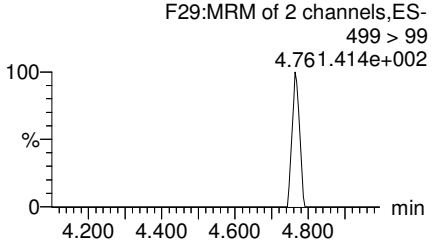


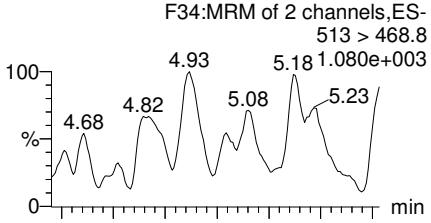


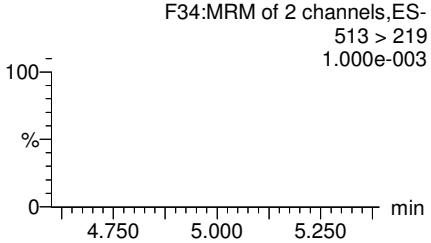
Total PFOS



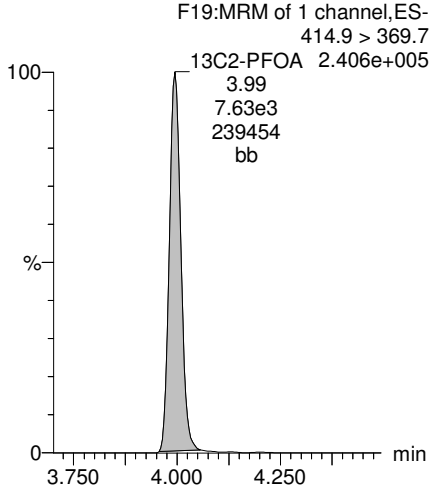


PFDA

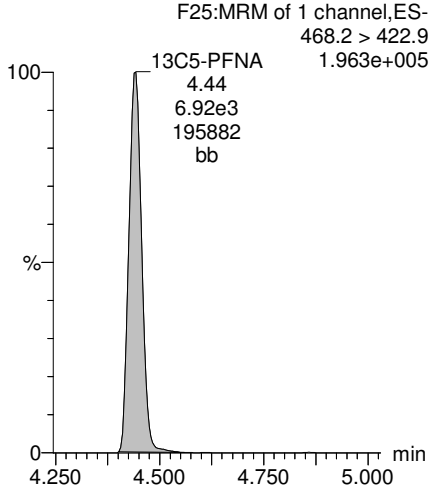




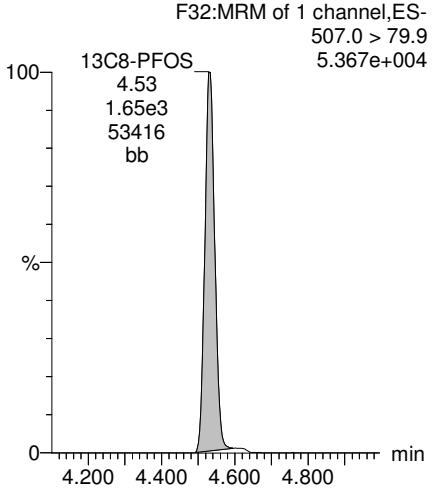
13C2-PFOA



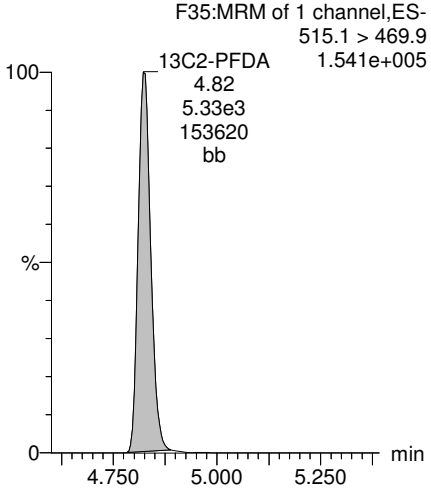
13C5-PFNA



13C8-PFOS



13C2-PFDA



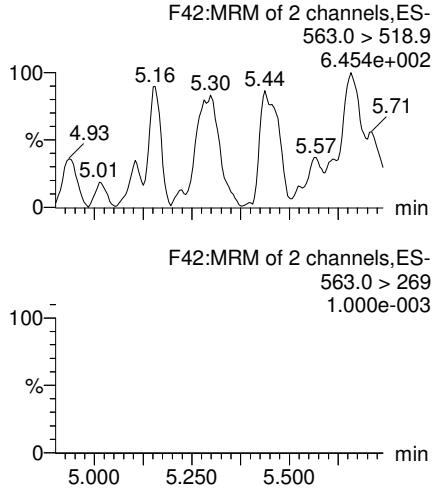
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

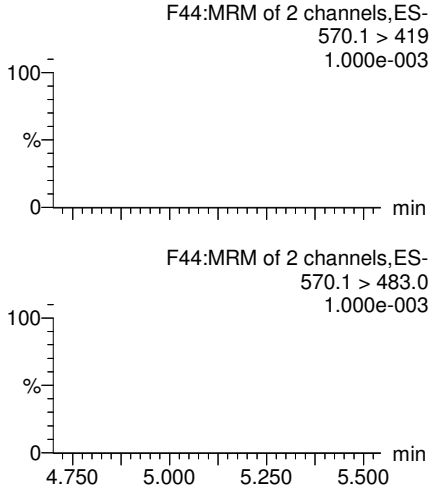
Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

PFUdA



N-MeFOSAA



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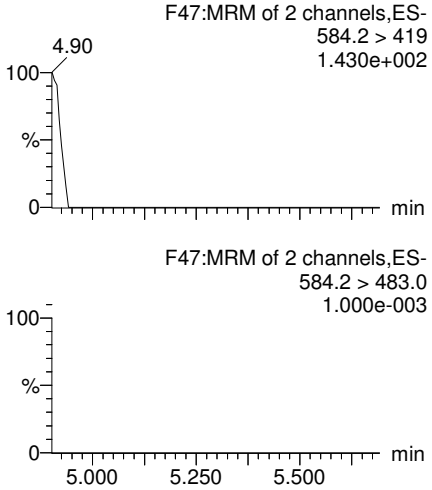
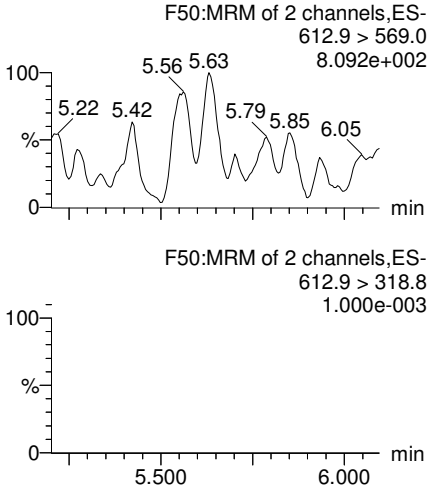
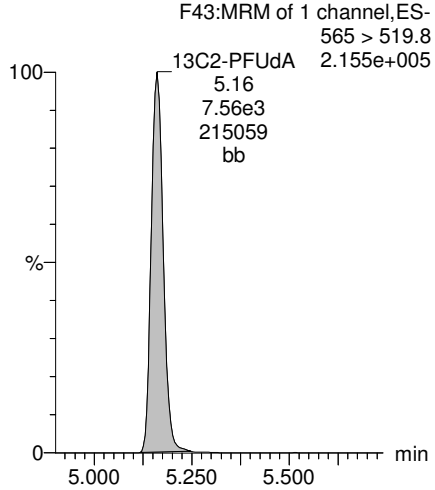


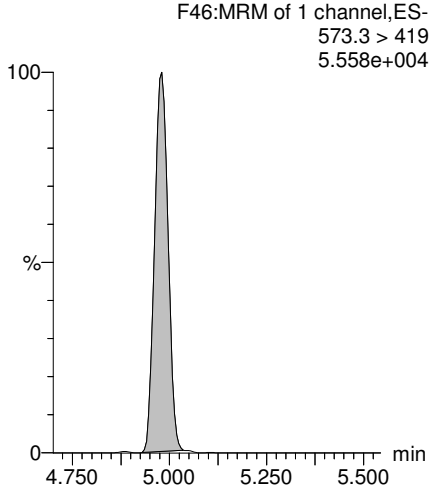
PFDoA



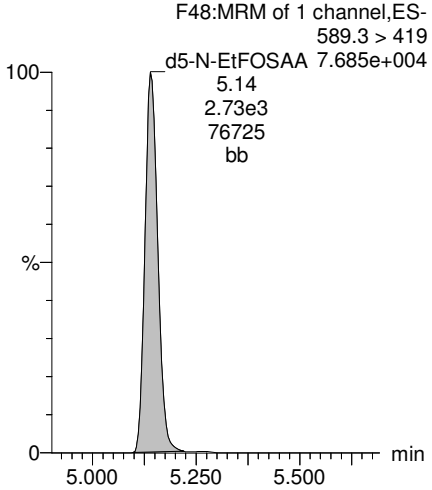
13C2-PFUdA



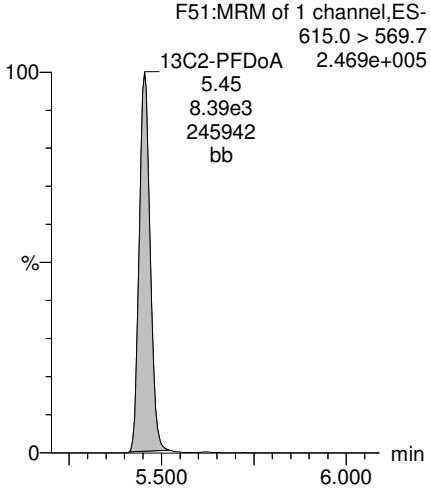
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



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Vista Analytical Laboratory

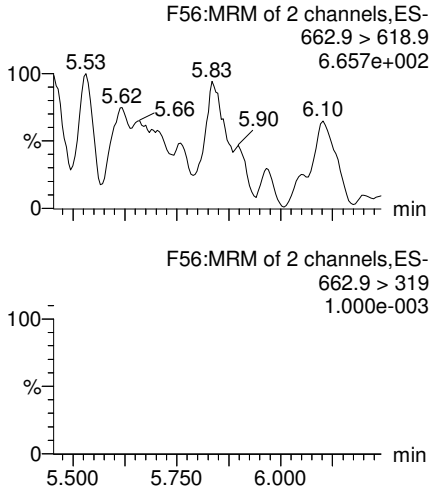
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

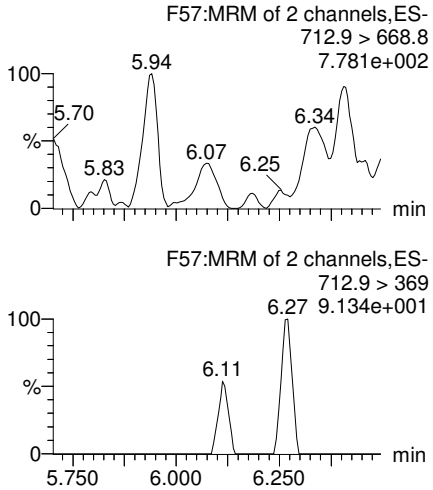
Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

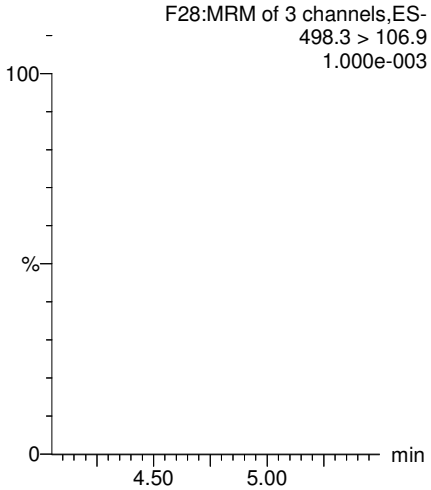
PFTrDA



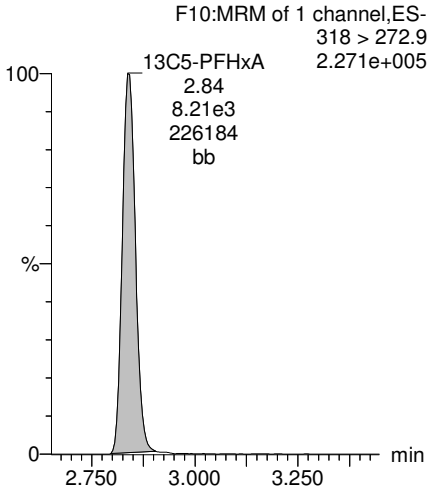
PFTeDA



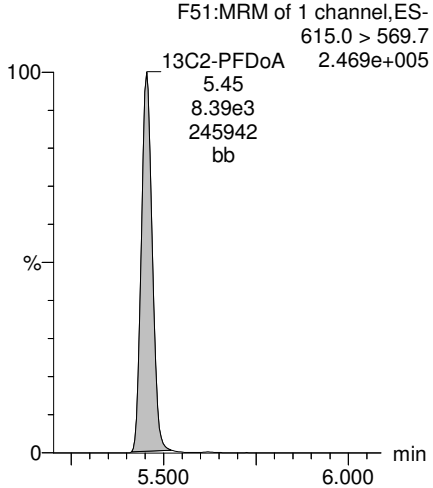
TCDA



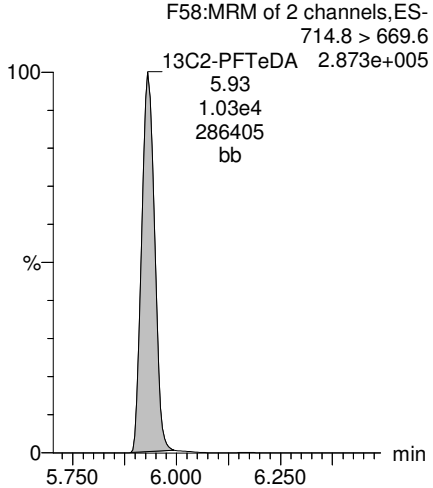
13C5-PFHxA



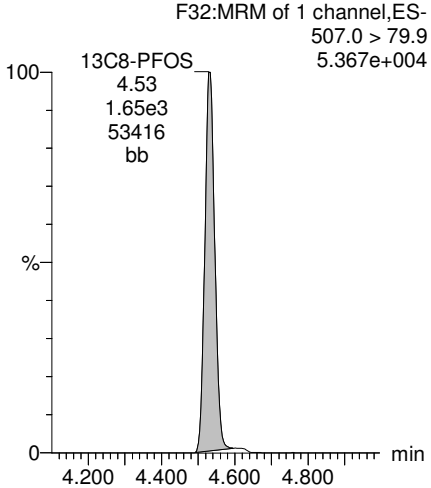
13C2-PFDoA



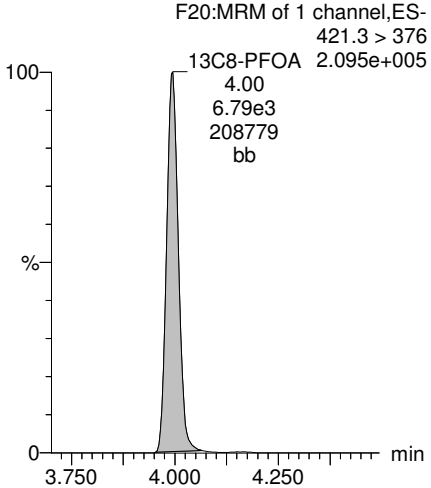
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



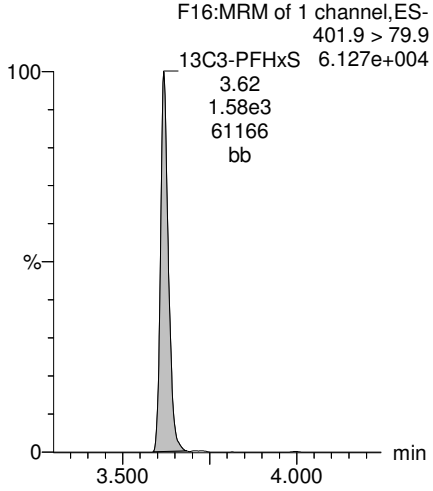
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-45.qld

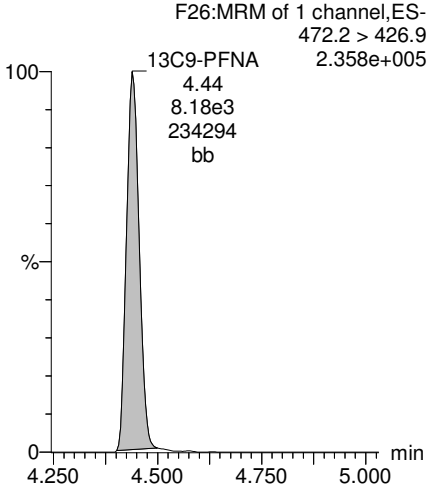
Last Altered: Monday, November 27, 2017 11:36:47 Pacific Standard Time
Printed: Monday, November 27, 2017 11:37:44 Pacific Standard Time

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

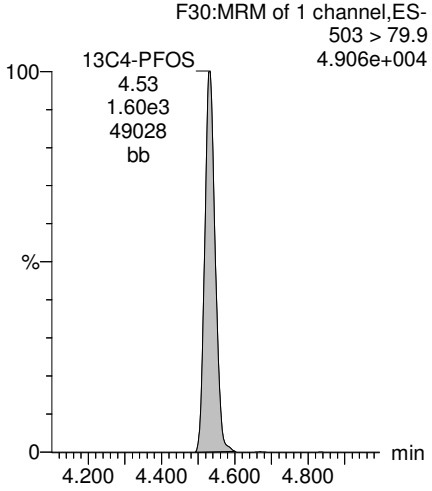
13C3-PFHxS



13C9-PFNA



13C4-PFOS



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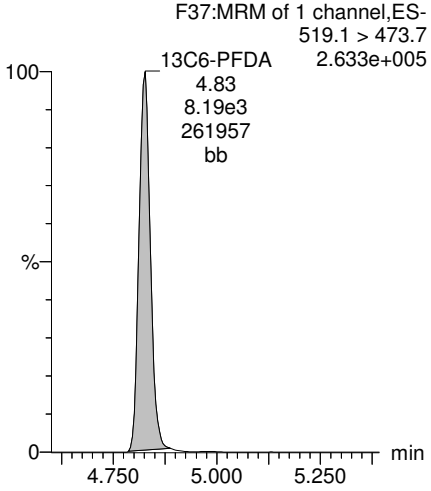
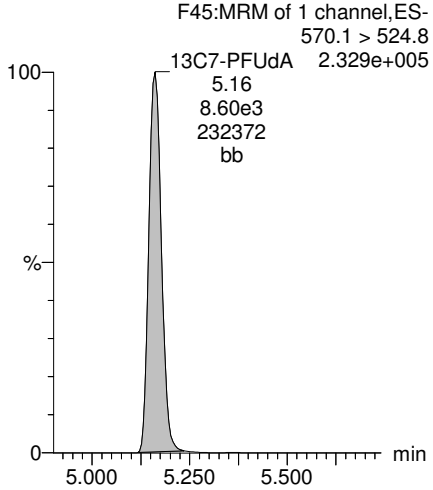


13C7-PFUdA



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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

Last Altered: Monday, November 27, 2017 14:54:33 Pacific Standard Time
Printed: Monday, November 27, 2017 14:57:30 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	3	PFBS	299.0 > 79.7	1.26e3	7.58e2	0.12500		2.44	2.34	20.8	68.375	85.5	
2	4	PFHxA	313.2 > 268.9	6.96e3	2.49e3	0.12500		2.93	2.84	14.0	68.025	85.0	
3	5	PFHpA	363.0 > 318.9	5.93e3	5.86e3	0.12500		3.56	3.46	12.7	67.133	83.9	
4	6	L-PFHxS	398.9 > 79.6	9.78e2	7.14e2	0.12500		3.71	3.62	17.1	59.087	73.9	
5	9	L-PFOA	413 > 368.7	6.30e3	8.26e3	0.12500		4.05	3.99	9.53	75.169	94.0	
6	12	PFNA	463.0 > 418.8	5.19e3	6.61e3	0.12500		4.55	4.44	9.81	53.896	67.4	H
7	14	L-PFOS	499 > 79.9	1.46e3	1.71e3	0.12500		4.63	4.53	10.6	81.431	101.8	
8	16	PFDA	513 > 468.8	6.85e3	5.51e3	0.12500		4.92	4.82	15.5	83.439	104.3	
9	18	N-MeFOSAA	570.1 > 419	2.70e3	2.59e3	0.12500		5.08	4.98	13.0	67.374	84.2	
10	19	N-EtFOSAA	584.2 > 419	2.70e3	3.06e3	0.12500		5.24	5.14	11.0	68.064	85.1	
11	20	PFUdA	563.0 > 518.9	4.49e3	6.60e3	0.12500		5.25	5.16	8.50	57.373	71.7	
12	22	PFDoA	612.9 > 569.0	6.51e3	7.54e3	0.12500		5.55	5.45	10.8	65.501	81.9	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

Last Altered: Monday, November 27, 2017 14:54:33 Pacific Standard Time
Printed: Monday, November 27, 2017 14:57:56 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	7.51e3	7.54e3	0.12500		5.80	5.71	12.4	78.951	98.7
2	25	PFTeDA	712.9 > 668.8	7.81e3	1.08e4	0.12500		6.02	5.93	9.05	56.569	70.7
3	31	13C3-PFBA	216.1 > 171.8	5.53e3	5.68e3	0.12500	0.884	1.17	1.09	12.2	110.171	110.2
4	32	13C3-PFPeA	266. > 221.8	6.19e3	7.82e3	0.12500	0.727	2.15	2.05	9.89	108.842	108.8
5	33	13C3-PFBS	302. > 98.8	7.58e2	7.82e3	0.12500	0.083	2.44	2.34	1.21	117.144	117.1
6	34	13C2-PFHxA	315 > 269.8	2.49e3	7.82e3	0.12500	0.703	2.93	2.84	3.98	45.299	113.2
7	35	13C4-PFHpA	367.2 > 321.8	5.86e3	7.82e3	0.12500	0.656	3.56	3.46	9.37	114.215	114.2
8	36	18O2-PFHxS	403.0 > 102.6	7.14e2	1.44e3	0.12500	0.408	3.71	3.61	6.18	121.189	121.2
9	37	13C2-6:2 FTS	429.1 > 408.9	2.08e3	7.00e3	0.12500	0.243	4.03	3.93	3.72	122.262	122.3
10	38	13C2-PFOA	414.9 > 369.7	8.26e3	7.00e3	0.12500	1.076	4.05	3.99	14.8	109.771	109.8
11	39	13C5-PFNA	468.2 > 422.9	6.61e3	6.23e3	0.12500	0.914	4.55	4.44	13.3	116.161	116.2
12	40	13C8-PFOSA	506.1 > 77.7	1.10e3	9.04e3	0.12500	0.211	4.59	4.49	1.52	57.627	57.6
13	41	13C8-PFOS	507.0 > 79.9	1.71e3	1.64e3	0.12500	0.982	4.63	4.53	13.1	106.591	106.6
14	42	13C2-PFDA	515.1 > 469.9	5.51e3	6.51e3	0.12500	0.891	4.92	4.82	10.6	94.924	94.9
15	43	13C2-8:2 FTS	529.1 > 508.7	1.96e3	6.51e3	0.12500	0.198	4.89	4.79	3.75	151.446	151.4
16	44	d3-N-MeFOSAA	573.3 > 419	2.59e3	9.04e3	0.12500	0.361	5.08	4.97	3.58	79.450	79.5
17	45	d5-N-EtFOSAA	589.3 > 419	3.06e3	9.04e3	0.12500	0.394	5.24	5.14	4.23	85.816	85.8
18	46	13C2-PFUdA	565 > 519.8	6.60e3	9.04e3	0.12500	0.966	5.25	5.16	9.13	75.546	75.5
19	47	13C2-PFDoA	615.0 > 569.7	7.54e3	9.04e3	0.12500	0.989	5.55	5.45	10.4	84.305	84.3
20	49	13C2-PFTeDA	714.8 > 669.6	1.08e4	9.04e3	0.12500	0.927	6.02	5.93	14.9	128.705	128.7
21	54	13C4-PFBA	217. > 171.8	5.68e3	5.68e3	0.12500	1.000	1.17	1.09	12.5	100.000	100.0
22	55	13C5-PFHxA	318 > 272.9	7.82e3	7.82e3	0.12500	1.000	2.93	2.84	12.5	100.000	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.44e3	1.44e3	0.12500	1.000	3.71	3.62	12.5	100.000	100.0
24	57	13C8-PFOA	421.3 > 376	7.00e3	7.00e3	0.12500	1.000	4.05	3.99	12.5	100.000	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.23e3	6.23e3	0.12500	1.000	4.55	4.44	12.5	100.000	100.0
26	59	13C4-PFOS	503 > 79.9	1.64e3	1.64e3	0.12500	1.000	4.63	4.53	12.5	100.000	100.0
27	60	13C6-PFDA	519.1 > 473.7	6.51e3	6.51e3	0.12500	1.000	4.92	4.82	12.5	100.000	100.0
28	61	13C7-PFUdA	570.1 > 524.8	9.04e3	9.04e3	0.12500	1.000	5.25	5.16	12.5	100.000	100.0
29	62	Total PFHxS	398.9 > 79.6	9.78e2	7.14e2	0.12500		3.71		17.1	59.087	
30	63	Total PFOA	413 > 368.7	6.30e3	8.26e3	0.12500		4.05		9.53	75.169	
31	64	Total PFOS	499 > 79.9	1.46e3	1.71e3	0.12500		4.63		10.6	81.431	
32	65	Total N-MeFOSAA	570.1 > 419	2.70e3	2.59e3	0.12500		5.08		13.0	67.374	

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

Last Altered: Monday, November 27, 2017 14:54:33 Pacific Standard Time
Printed: Monday, November 27, 2017 14:57:56 Pacific Standard Time

Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	2.70e3	3.06e3	0.12500		5.24		11.0	68.064	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

Last Altered: Monday, November 27, 2017 14:54:33 Pacific Standard Time
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

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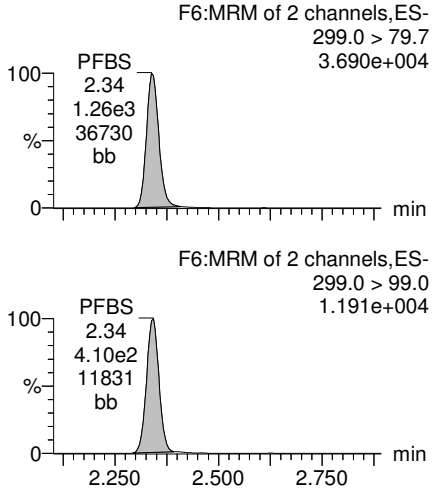

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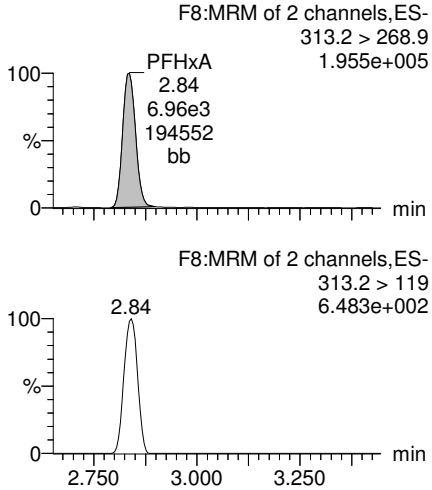

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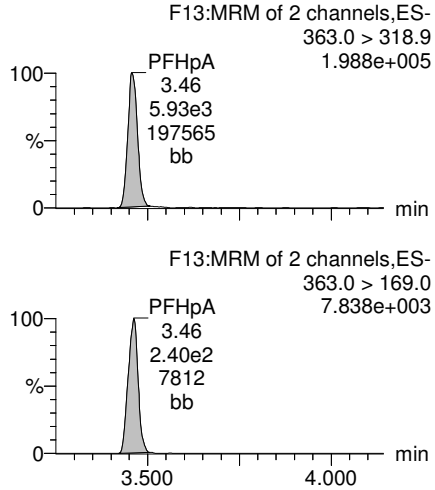

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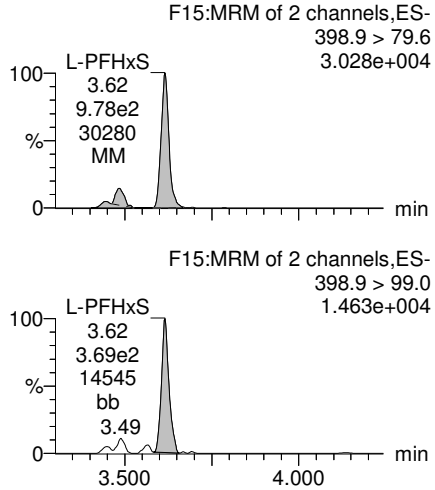

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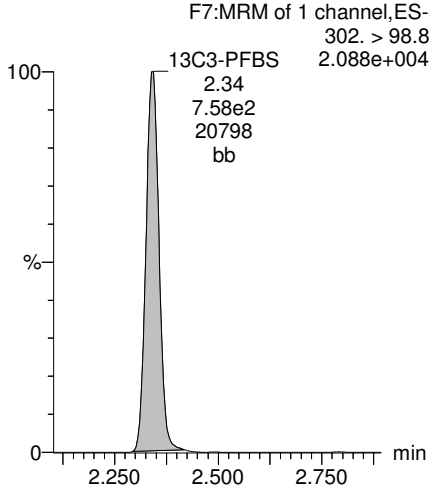

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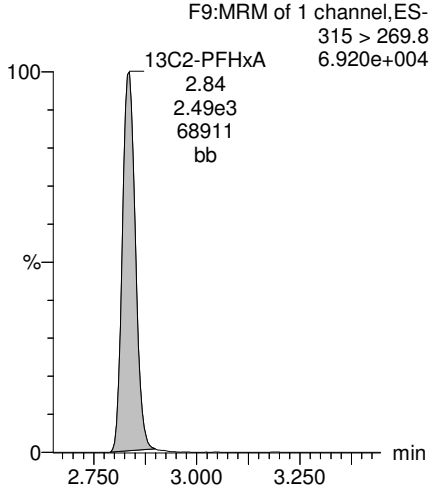

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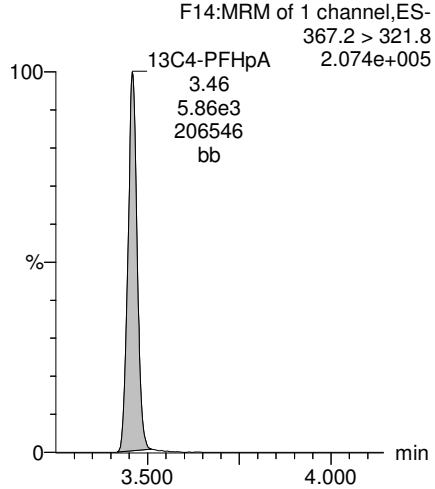

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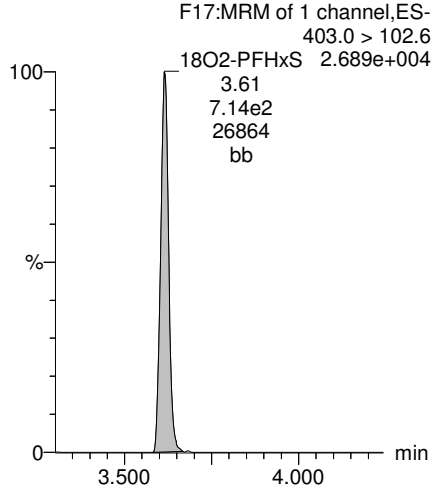

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

Last Altered: Monday, November 27, 2017 14:54:33 Pacific Standard Time
Printed: Monday, November 27, 2017 14:57:56 Pacific Standard Time

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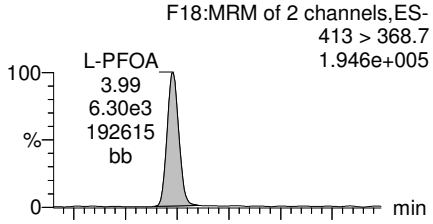

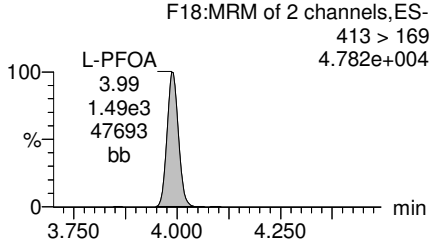

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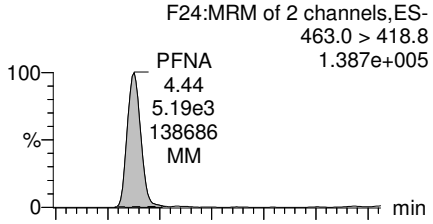

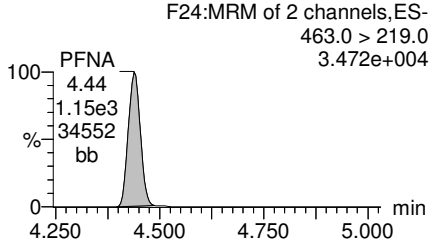

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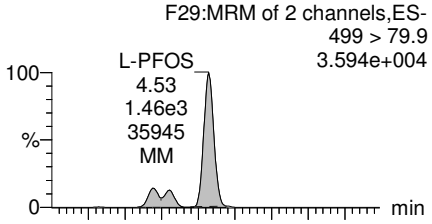

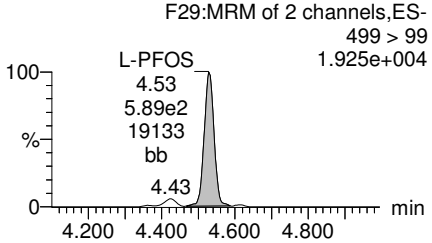

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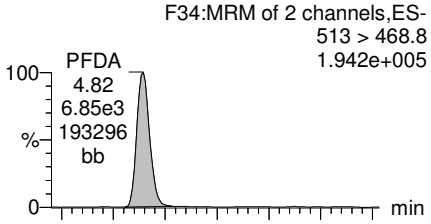

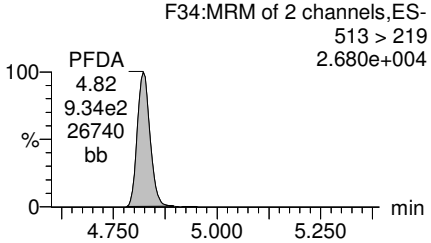

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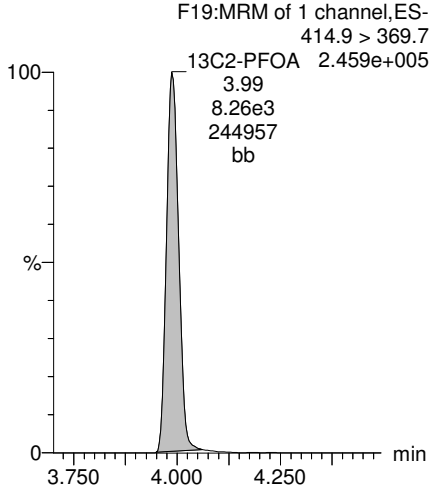

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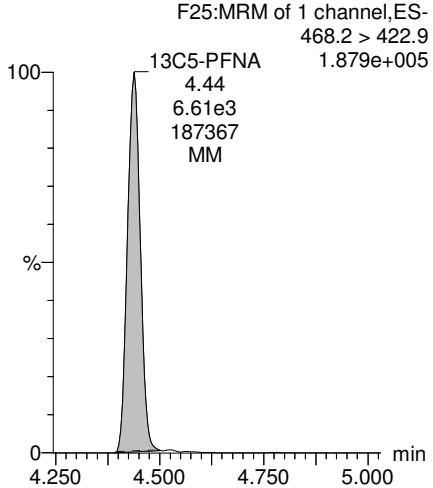

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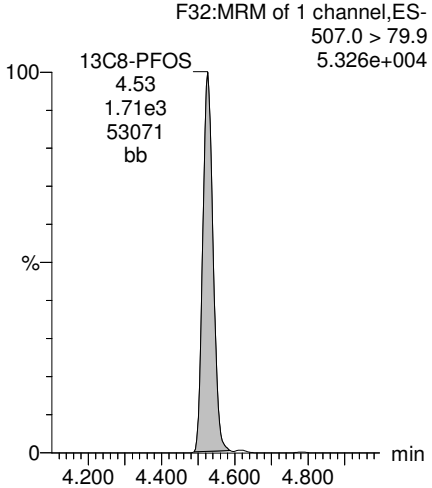

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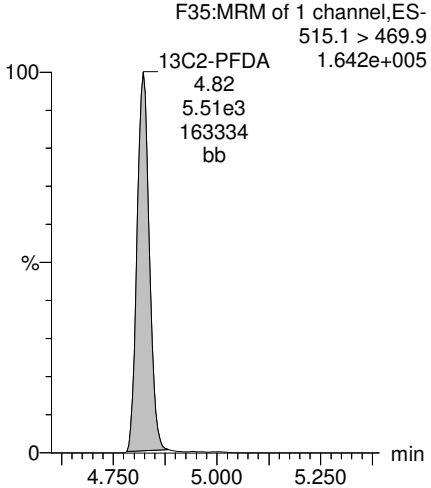

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

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Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

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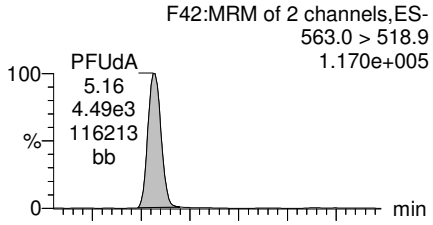

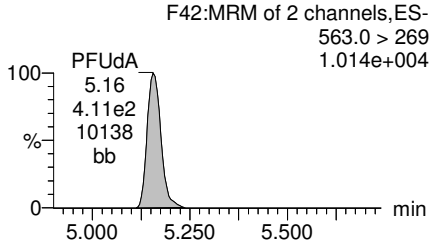

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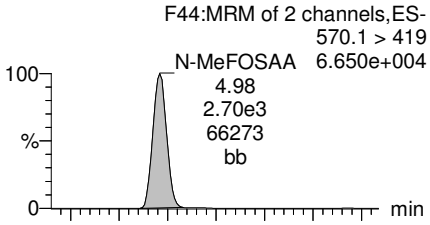

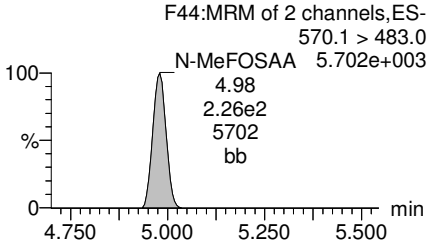

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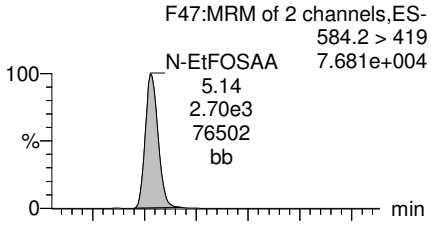

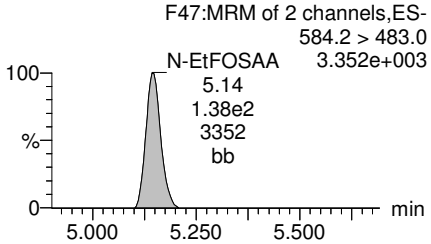

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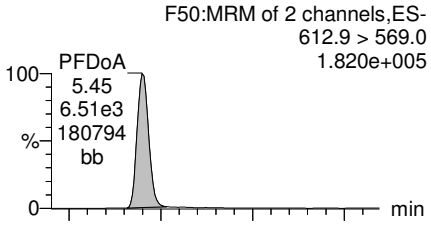

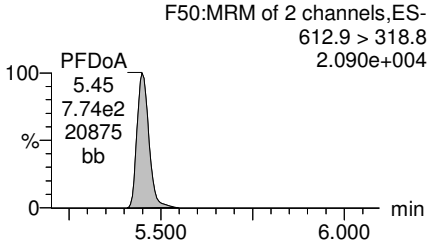

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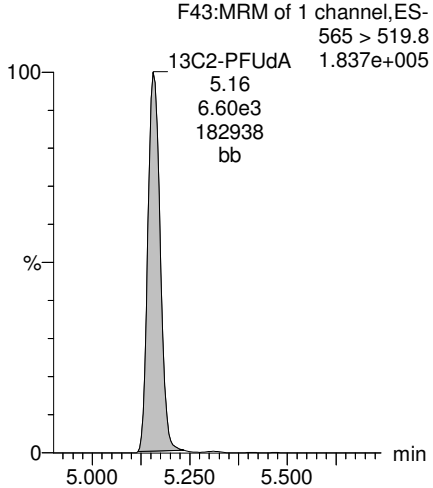

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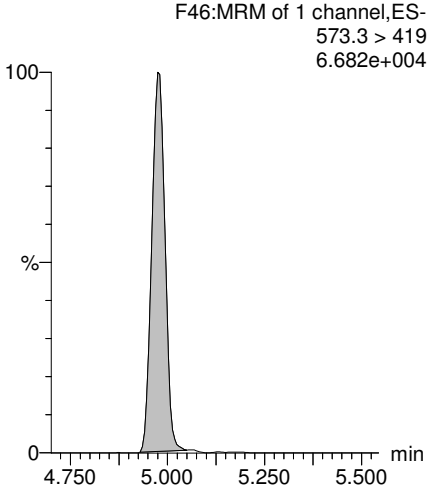

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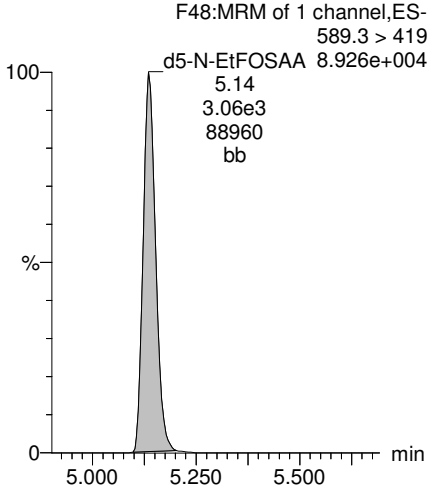

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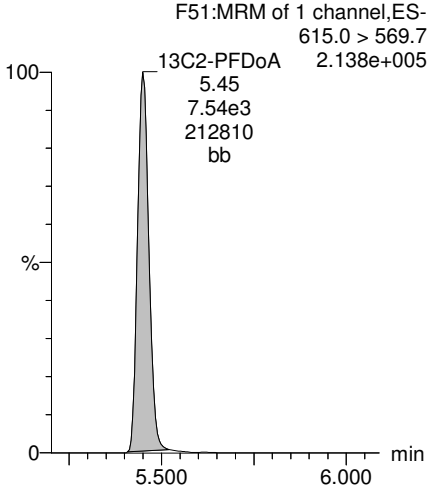

MJT11/27/2017

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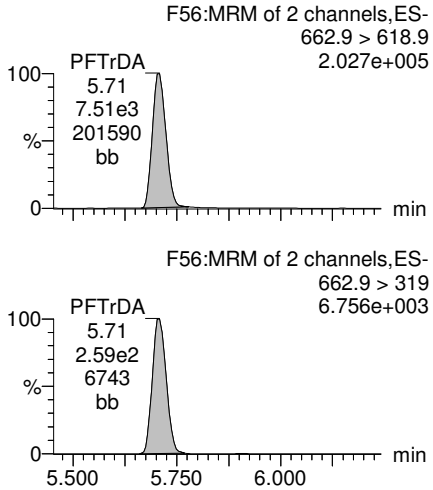
PFTrDA



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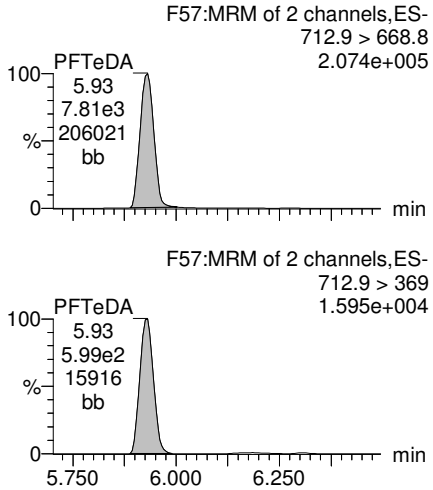
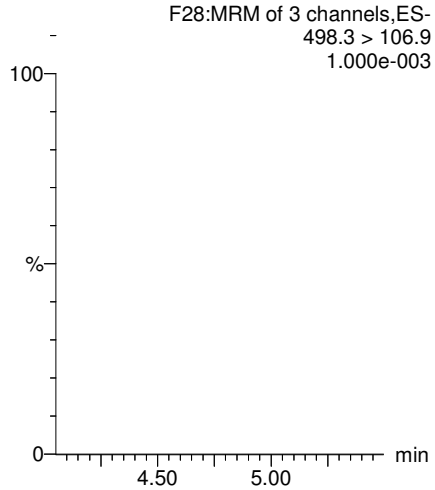
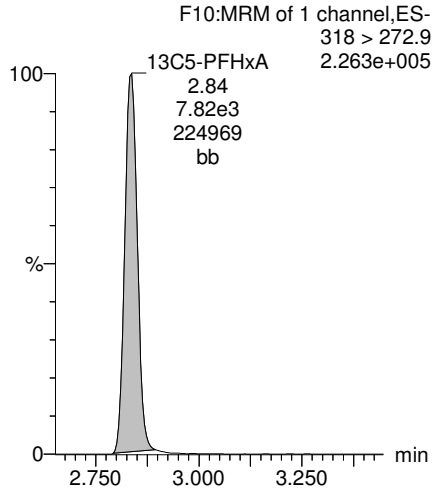


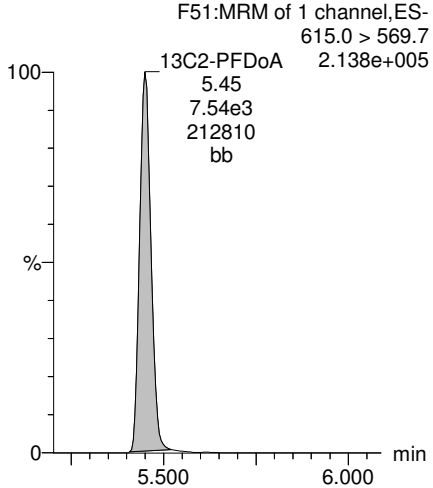
TCDA



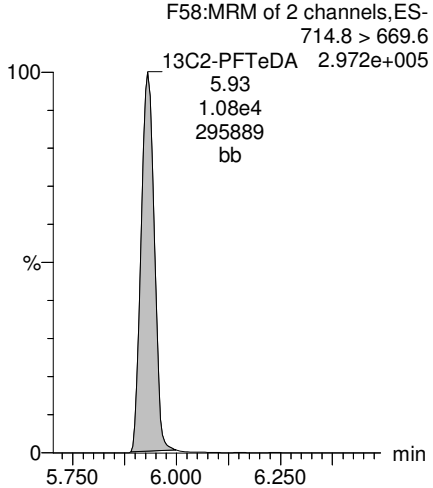
13C5-PFHxA



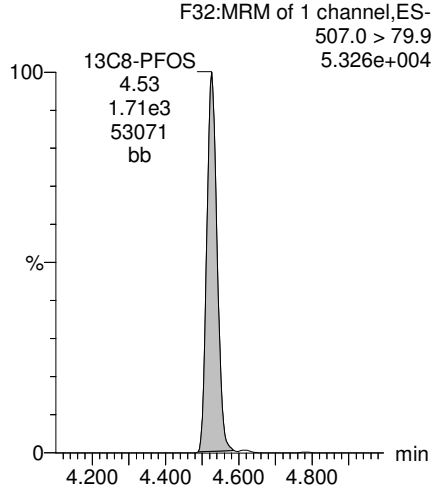
13C2-PFDoA



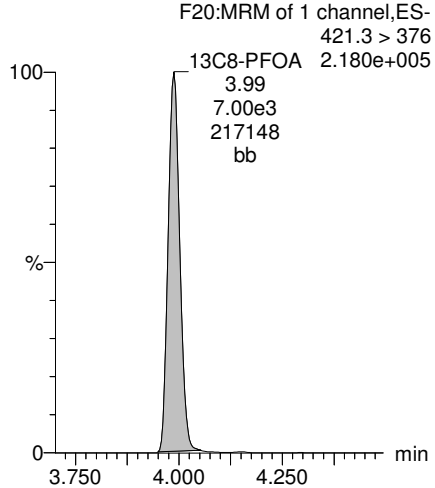
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-40.qld

Last Altered: Monday, November 27, 2017 14:54:33 Pacific Standard Time
Printed: Monday, November 27, 2017 14:57:56 Pacific Standard Time

Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

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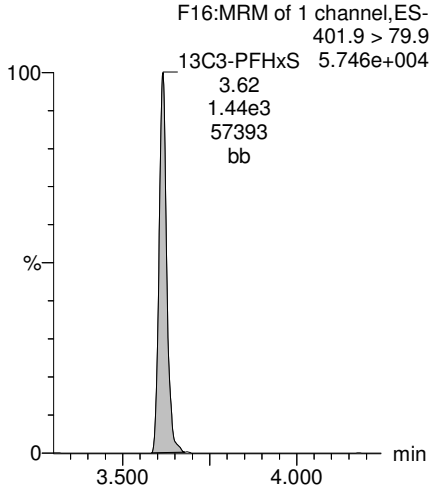
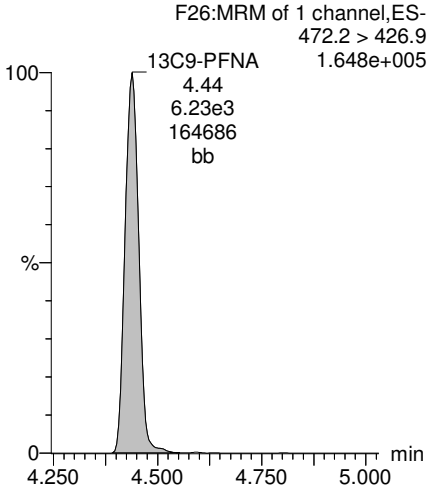
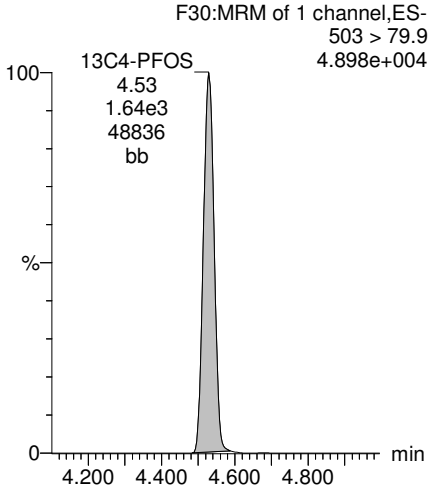


13C9-PFNA



13C4-PFOS



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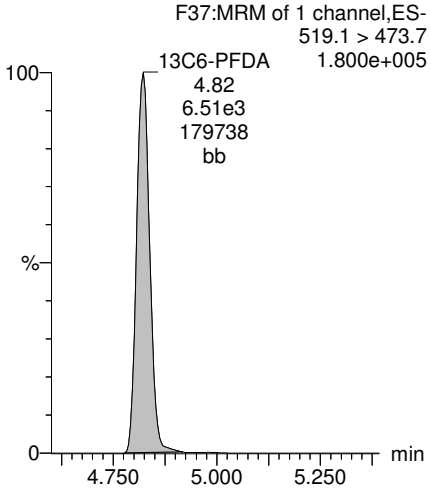
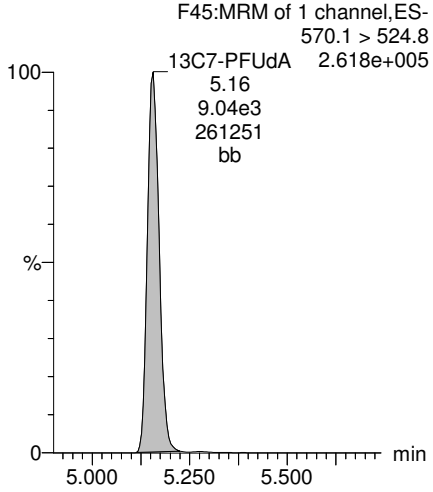


13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:18 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.24e2	0.11734		2.44				
2	4	PFHxA	313.2 > 268.9		1.95e3	0.11734		2.93				
3	5	PFHpA	363.0 > 318.9		5.46e3	0.11734		3.56				
4	6	L-PFHxS	398.9 > 79.6	1.71e2	5.97e2	0.11734		3.71	3.62	3.57	12.833	
5	9	L-PFOA	413 > 368.7	1.95e2	7.16e3	0.11734		4.05	3.99	0.340	0.343	
6	12	PFNA	463.0 > 418.8		4.98e3	0.11734		4.55				
7	14	L-PFOS	499 > 79.9		1.58e3	0.11734		4.63				
8	16	PFDA	513 > 468.8		5.89e3	0.11734		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.84e3	0.11734		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.62e3	0.11734		5.24				
11	20	PFUdA	563.0 > 518.9		6.32e3	0.11734		5.25				
12	22	PFDoA	612.9 > 569.0		7.89e3	0.11734		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		7.89e3	0.11734		5.80				
2	25	PFTeDA	712.9 > 668.8		7.74e3	0.11734		6.02				
3	31	13C3-PFBA	216.1 > 171.8	4.95e3	5.22e3	0.11734	0.884	1.17	1.07	11.9	114.358	107.4
4	32	13C3-PFPeA	266. > 221.8	5.46e3	6.27e3	0.11734	0.727	2.15	2.04	10.9	127.463	119.7
5	33	13C3-PFBS	302. > 98.8	7.24e2	6.27e3	0.11734	0.083	2.44	2.33	1.44	148.543	139.4
6	34	13C2-PFHxA	315 > 269.8	1.95e3	6.27e3	0.11734	0.703	2.93	2.83	3.88	47.093	110.5
7	35	13C4-PFHpA	367.2 > 321.8	5.46e3	6.27e3	0.11734	0.656	3.56	3.46	10.9	141.171	132.5
8	36	18O2-PFHxS	403.0 > 102.6	5.97e2	1.28e3	0.11734	0.408	3.71	3.62	5.85	122.234	114.7
9	37	13C2-6:2 FTS	429.1 > 408.9	1.63e3	5.82e3	0.11734	0.243	4.03	3.93	3.49	122.320	114.8
10	38	13C2-PFOA	414.9 > 369.7	7.16e3	5.82e3	0.11734	1.076	4.05	3.99	15.4	121.747	114.3
11	39	13C5-PFNA	468.2 > 422.9	4.98e3	6.33e3	0.11734	0.914	4.55	4.44	9.84	91.719	86.1
12	40	13C8-PFOSA	506.1 > 77.7	9.00e2	6.97e3	0.11734	0.211	4.59	4.49	1.61	65.119	61.1
13	41	13C8-PFOS	507.0 > 79.9	1.58e3	1.45e3	0.11734	0.982	4.63	4.53	13.6	117.847	110.6
14	42	13C2-PFDA	515.1 > 469.9	5.89e3	6.68e3	0.11734	0.891	4.92	4.82	11.0	105.306	98.9
15	43	13C2-8:2 FTS	529.1 > 508.7	1.38e3	6.68e3	0.11734	0.198	4.89	4.79	2.58	110.924	104.1
16	44	d3-N-MeFOSAA	573.3 > 419	2.84e3	6.97e3	0.11734	0.361	5.08	4.98	5.09	120.264	112.9
17	45	d5-N-EtFOSAA	589.3 > 419	2.62e3	6.97e3	0.11734	0.394	5.24	5.14	4.69	101.557	95.3
18	46	13C2-PFUdA	565 > 519.8	6.32e3	6.97e3	0.11734	0.966	5.25	5.16	11.3	99.857	93.7
19	47	13C2-PFDoA	615.0 > 569.7	7.89e3	6.97e3	0.11734	0.989	5.55	5.45	14.1	121.800	114.3
20	49	13C2-PFTeDA	714.8 > 669.6	7.74e3	6.97e3	0.11734	0.927	6.02	5.93	13.9	127.531	119.7
21	54	13C4-PFBA	217. > 171.8	5.22e3	5.22e3	0.11734	1.000	1.17	1.07	12.5	106.528	100.0
22	55	13C5-PFHxA	318 > 272.9	6.27e3	6.27e3	0.11734	1.000	2.93	2.83	12.5	106.528	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.28e3	1.28e3	0.11734	1.000	3.71	3.61	12.5	106.528	100.0
24	57	13C8-PFOA	421.3 > 376	5.82e3	5.82e3	0.11734	1.000	4.05	3.99	12.5	106.528	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.33e3	6.33e3	0.11734	1.000	4.55	4.44	12.5	106.528	100.0
26	59	13C4-PFOS	503 > 79.9	1.45e3	1.45e3	0.11734	1.000	4.63	4.53	12.5	106.528	100.0
27	60	13C6-PFDA	519.1 > 473.7	6.68e3	6.68e3	0.11734	1.000	4.92	4.82	12.5	106.528	100.0
28	61	13C7-PFUdA	570.1 > 524.8	6.97e3	6.97e3	0.11734	1.000	5.25	5.16	12.5	106.528	100.0
29	62	Total PFHxS	398.9 > 79.6	1.71e2	5.97e2	0.11734		3.71		3.57	12.833	
30	63	Total PFOA	413 > 368.7	1.95e2	7.16e3	0.11734		4.05		0.340	0.343	
31	64	Total PFOS	499 > 79.9	0.00e0	1.58e3	0.11734		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.84e3	0.11734		5.08		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.62e3	0.11734		5.24		0.000		

MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

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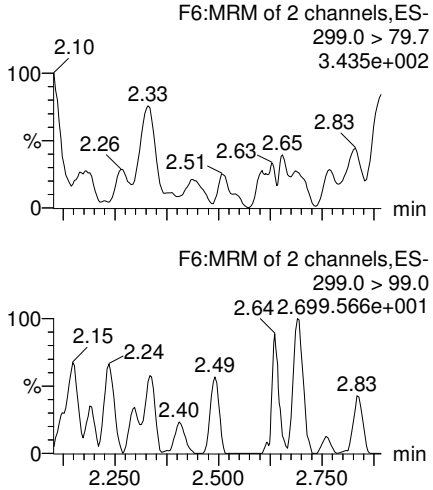
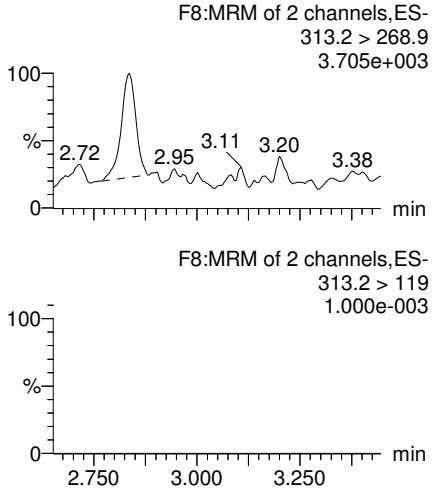


PFHxA



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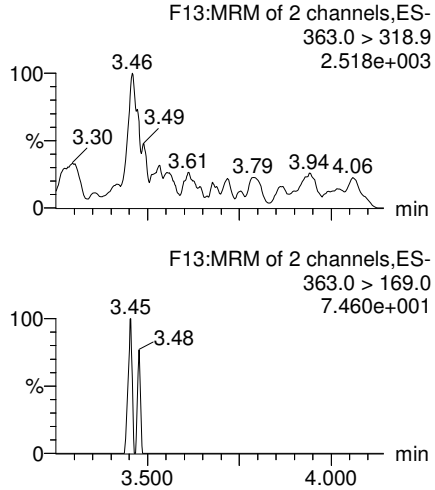

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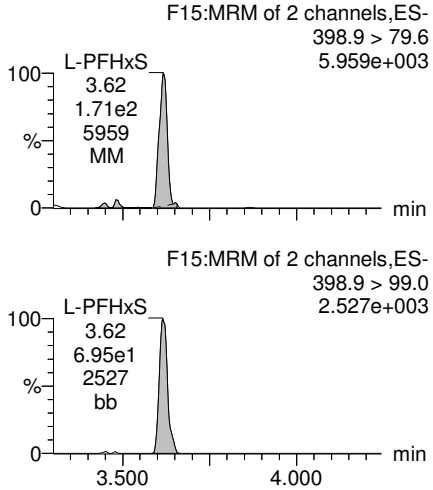

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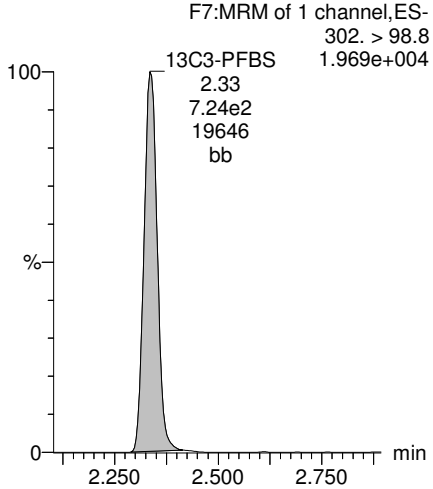
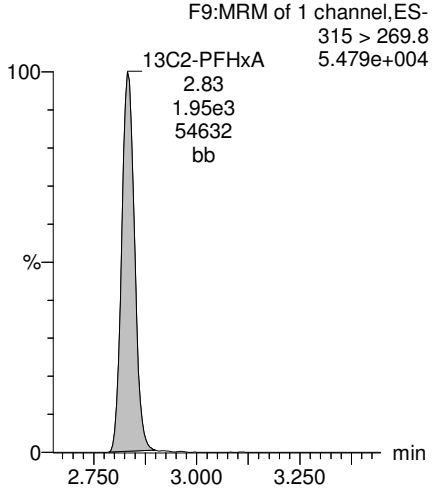


13C2-PFHxA



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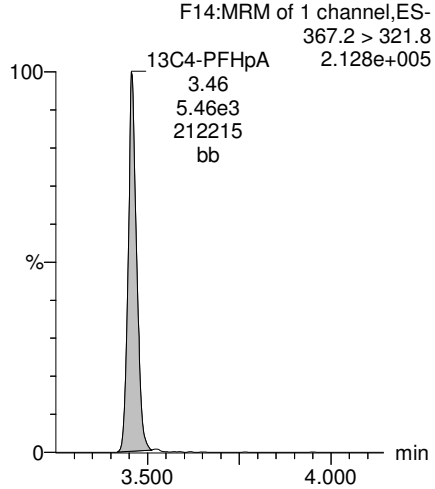

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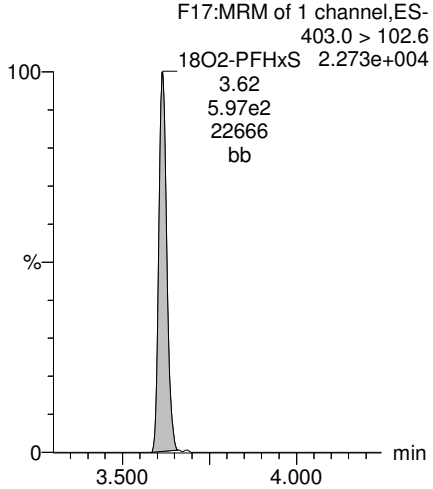


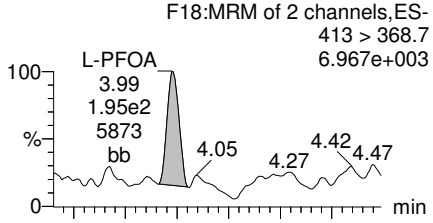
MJT11/27/2017

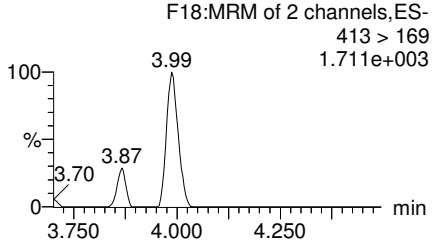
Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

Total PFOA





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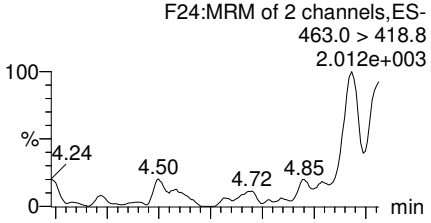
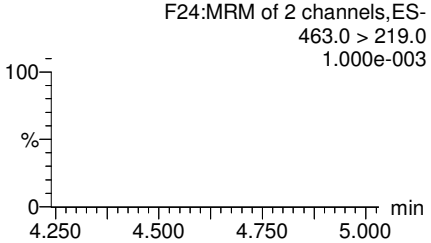
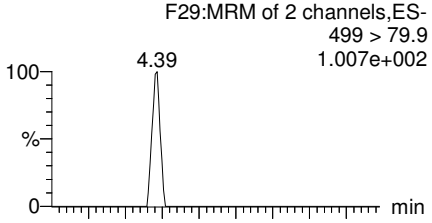
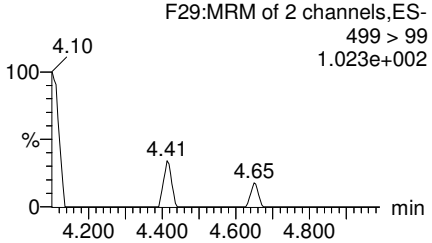




Total PFOS





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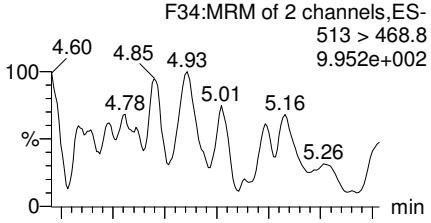
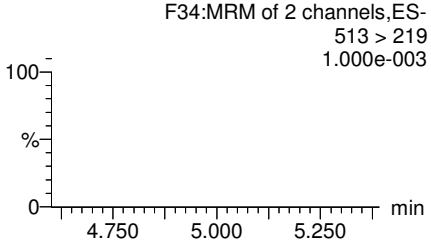
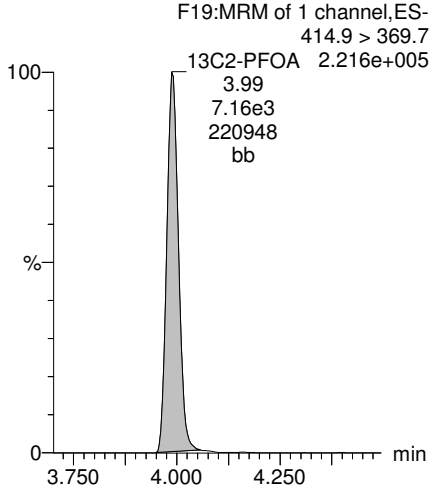
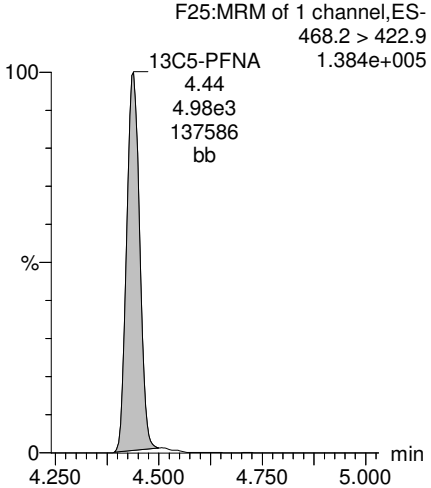




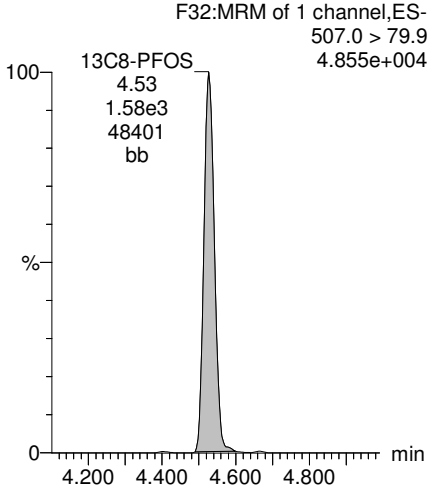
13C2-PFOA



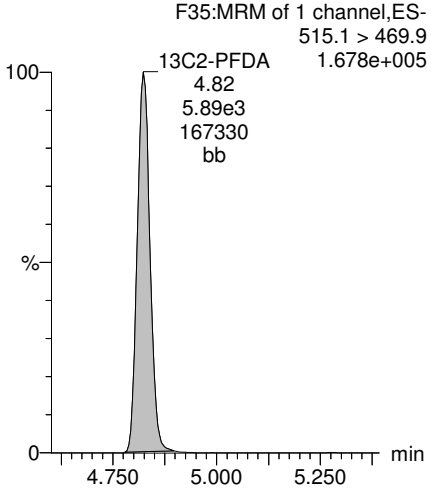
13C5-PFNA



13C8-PFOS



13C2-PFDA



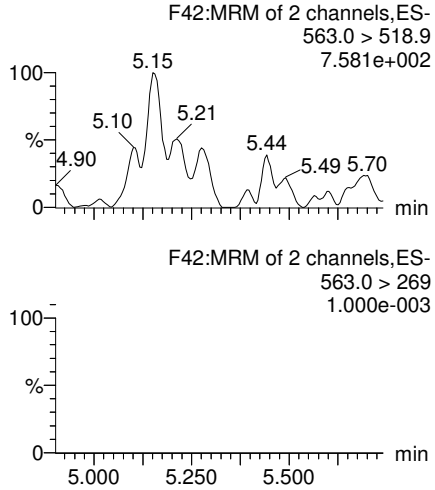
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

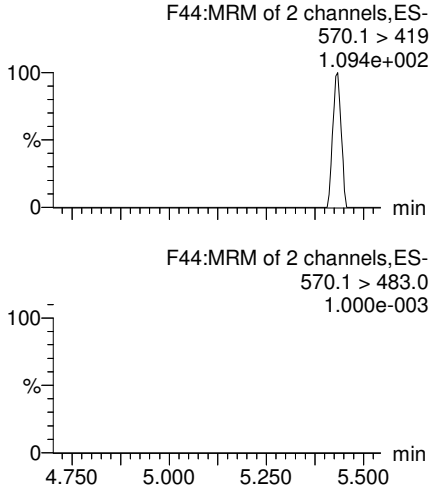
Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

PFUdA



N-MeFOSAA



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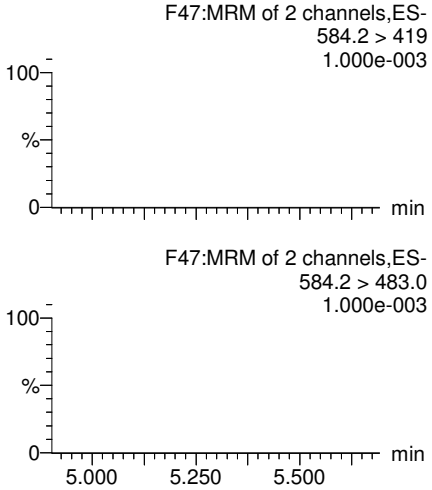
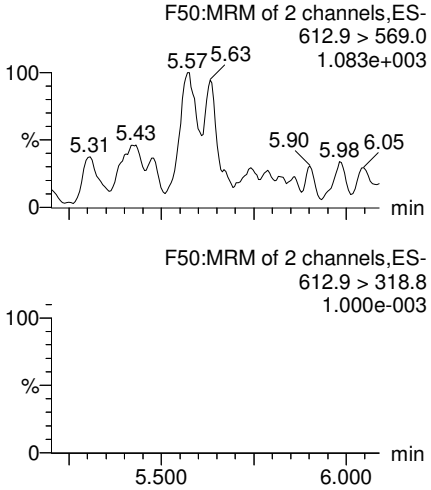


PFDoA



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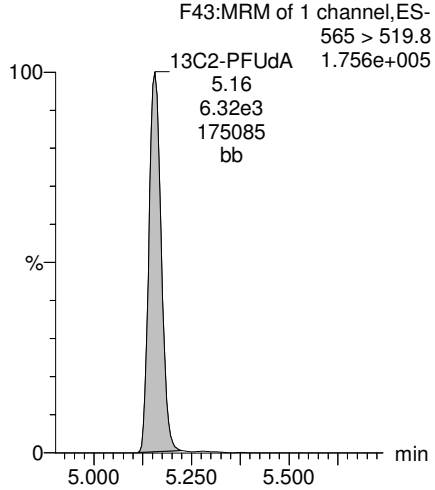
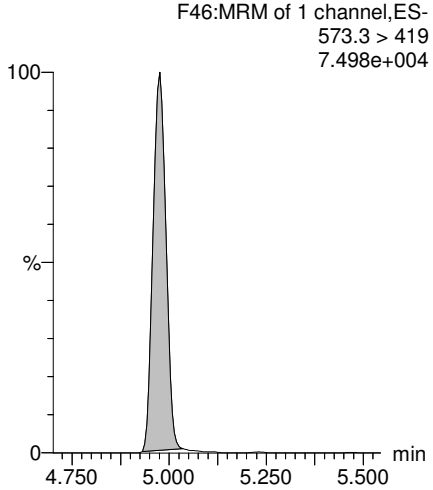
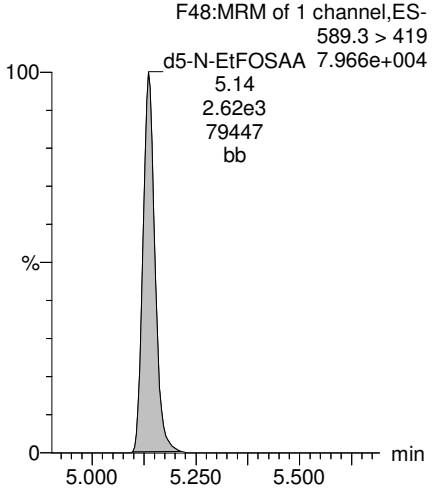


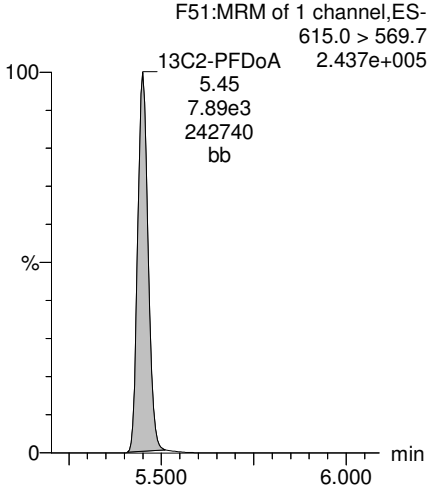
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



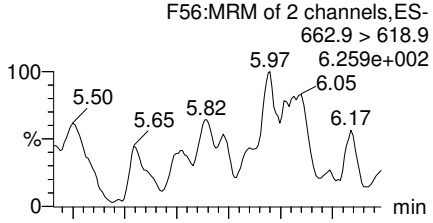
MJT11/27/2017

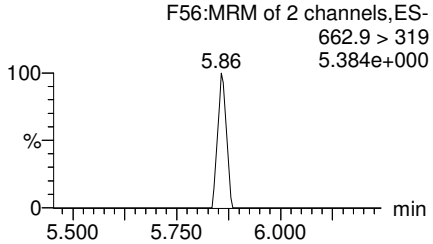
Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

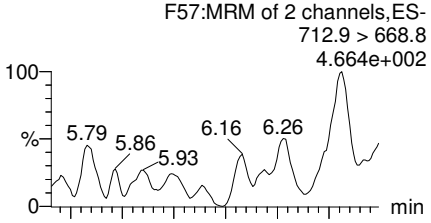
Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

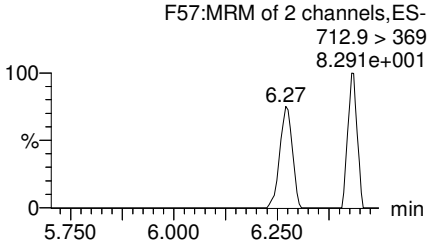
PFTrDA



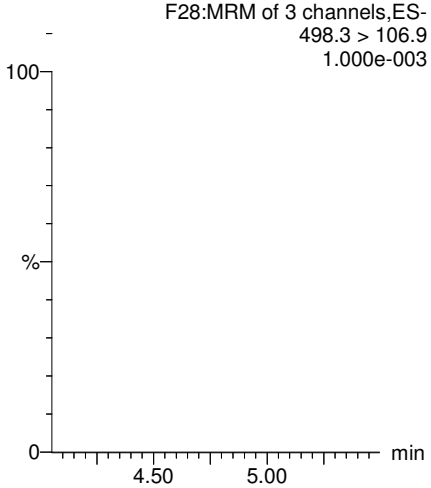


PFTeDA

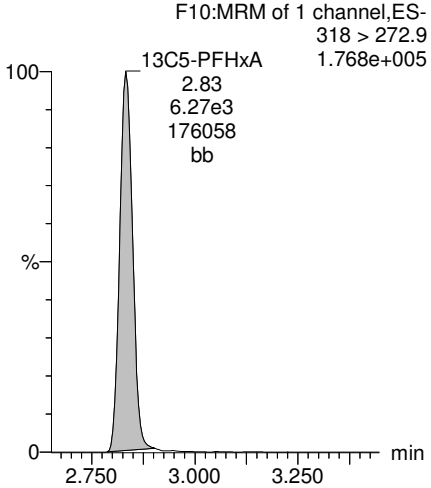




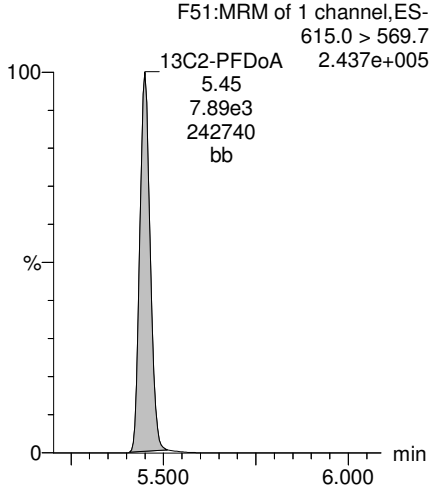
TCDA



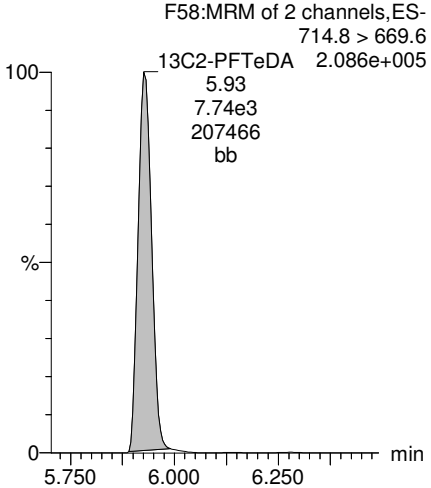
13C5-PFHxA



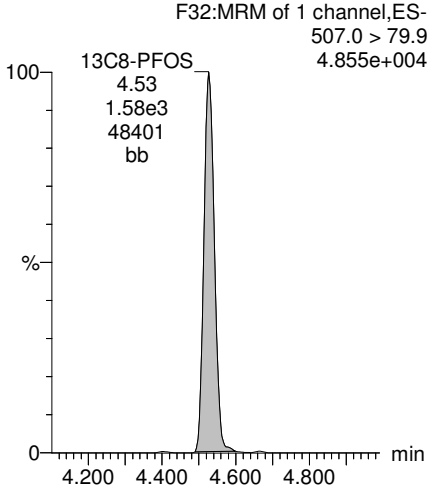
13C2-PFDoA



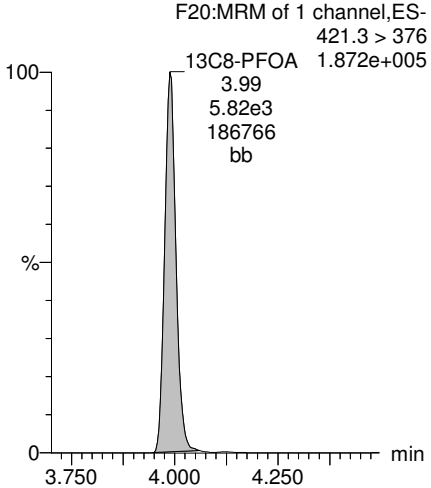
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



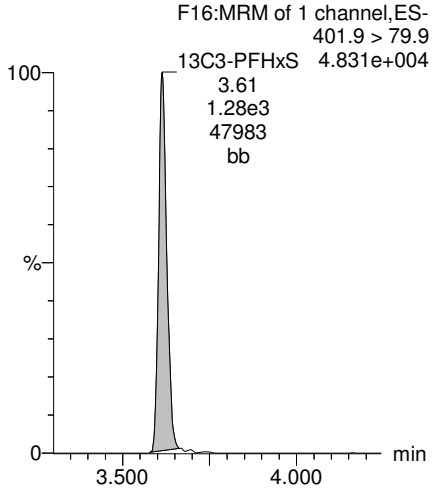
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-51.qld

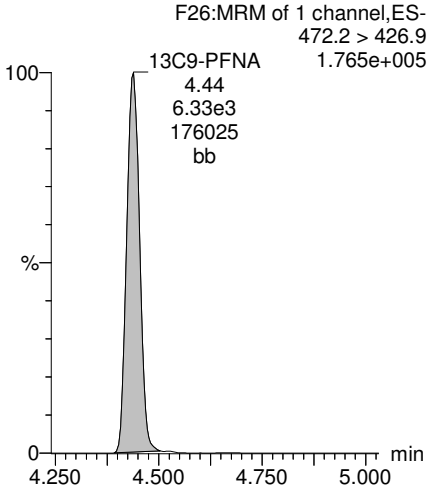
Last Altered: Monday, November 27, 2017 09:49:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:52:34 Pacific Standard Time

Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

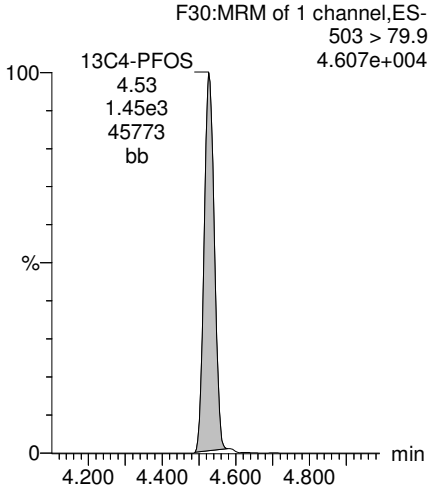
13C3-PFHxS



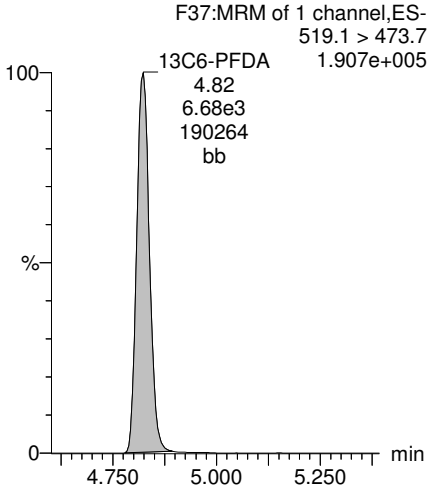
13C9-PFNA



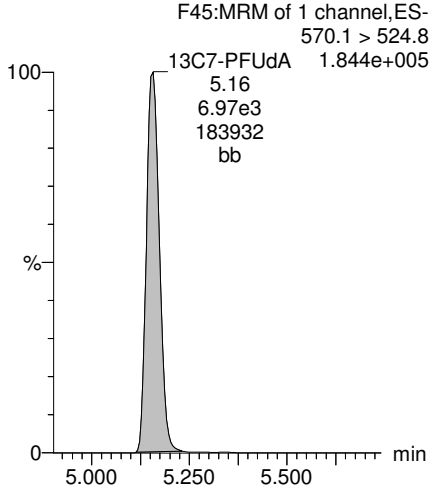
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:11 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		8.09e2	0.11617		2.44				
2	4	PFHxA	313.2 > 268.9		2.36e3	0.11617		2.93				
3	5	PFHpA	363.0 > 318.9		5.48e3	0.11617		3.56				
4	6	L-PFHxS	398.9 > 79.6		6.80e2	0.11617		3.71				
5	9	L-PFOA	413 > 368.7	1.49e2	7.43e3	0.11617		4.05	3.99	0.250		
6	12	PFNA	463.0 > 418.8		6.26e3	0.11617		4.55				
7	14	L-PFOS	499 > 79.9		1.82e3	0.11617		4.63				
8	16	PFDA	513 > 468.8		6.01e3	0.11617		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.34e3	0.11617		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.31e3	0.11617		5.24				
11	20	PFUdA	563.0 > 518.9		8.54e3	0.11617		5.25				
12	22	PFDoA	612.9 > 569.0		8.52e3	0.11617		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		8.52e3	0.11617		5.80				
2	25	PFTeDA	712.9 > 668.8		1.05e4	0.11617		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.34e3	5.47e3	0.11617	0.884	1.17	1.10	12.2	119.025	110.6
4	32	13C3-PFPeA	266. > 221.8	6.00e3	7.41e3	0.11617	0.727	2.15	2.05	10.1	119.854	111.4
5	33	13C3-PFBS	302. > 98.8	8.09e2	7.41e3	0.11617	0.083	2.44	2.35	1.36	141.809	131.8
6	34	13C2-PFHxA	315 > 269.8	2.36e3	7.41e3	0.11617	0.703	2.93	2.84	3.98	48.797	113.4
7	35	13C4-PFHpA	367.2 > 321.8	5.48e3	7.41e3	0.11617	0.656	3.56	3.46	9.24	121.206	112.6
8	36	18O2-PFHxS	403.0 > 102.6	6.80e2	1.62e3	0.11617	0.408	3.71	3.62	5.27	111.076	103.2
9	37	13C2-6:2 FTS	429.1 > 408.9	1.83e3	6.28e3	0.11617	0.243	4.03	3.94	3.65	129.064	119.9
10	38	13C2-PFOA	414.9 > 369.7	7.43e3	6.28e3	0.11617	1.076	4.05	3.99	14.8	118.404	110.0
11	39	13C5-PFNA	468.2 > 422.9	6.26e3	7.54e3	0.11617	0.914	4.55	4.44	10.4	97.760	90.9
12	40	13C8-PFOSA	506.1 > 77.7	1.18e3	7.99e3	0.11617	0.211	4.59	4.50	1.84	75.028	69.7
13	41	13C8-PFOS	507.0 > 79.9	1.82e3	1.33e3	0.11617	0.982	4.63	4.53	17.1	149.886	139.3
14	42	13C2-PFDA	515.1 > 469.9	6.01e3	8.12e3	0.11617	0.891	4.92	4.83	9.25	89.387	83.1
15	43	13C2-8:2 FTS	529.1 > 508.7	1.93e3	8.12e3	0.11617	0.198	4.89	4.79	2.97	129.043	119.9
16	44	d3-N-MeFOSAA	573.3 > 419	2.34e3	7.99e3	0.11617	0.361	5.08	4.98	3.67	87.468	81.3
17	45	d5-N-EtFOSAA	589.3 > 419	3.31e3	7.99e3	0.11617	0.394	5.24	5.14	5.17	113.005	105.0
18	46	13C2-PFUdA	565 > 519.8	8.54e3	7.99e3	0.11617	0.966	5.25	5.16	13.4	118.962	110.6
19	47	13C2-PFDoA	615.0 > 569.7	8.52e3	7.99e3	0.11617	0.989	5.55	5.45	13.3	115.985	107.8
20	49	13C2-PFTeDA	714.8 > 669.6	1.05e4	7.99e3	0.11617	0.927	6.02	5.94	16.4	152.442	141.7
21	54	13C4-PFBA	217. > 171.8	5.47e3	5.47e3	0.11617	1.000	1.17	1.10	12.5	107.601	100.0
22	55	13C5-PFHxA	318 > 272.9	7.41e3	7.41e3	0.11617	1.000	2.93	2.84	12.5	107.601	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.62e3	1.62e3	0.11617	1.000	3.71	3.62	12.5	107.601	100.0
24	57	13C8-PFOA	421.3 > 376	6.28e3	6.28e3	0.11617	1.000	4.05	4.00	12.5	107.601	100.0
25	58	13C9-PFNA	472.2 > 426.9	7.54e3	7.54e3	0.11617	1.000	4.55	4.44	12.5	107.601	100.0
26	59	13C4-PFOS	503 > 79.9	1.33e3	1.33e3	0.11617	1.000	4.63	4.53	12.5	107.601	100.0
27	60	13C6-PFDA	519.1 > 473.7	8.12e3	8.12e3	0.11617	1.000	4.92	4.83	12.5	107.601	100.0
28	61	13C7-PFUdA	570.1 > 524.8	7.99e3	7.99e3	0.11617	1.000	5.25	5.16	12.5	107.601	100.0
29	62	Total PFHxS	398.9 > 79.6	0.00e0	6.80e2	0.11617		3.71		0.000		
30	63	Total PFOA	413 > 368.7	1.49e2	7.43e3	0.11617		4.05		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	1.82e3	0.11617		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.34e3	0.11617		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.31e3	0.11617		5.24		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

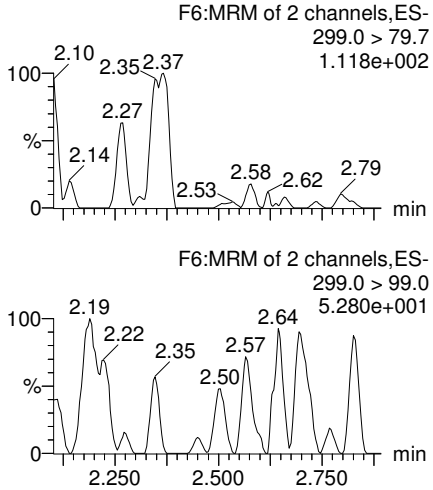
Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

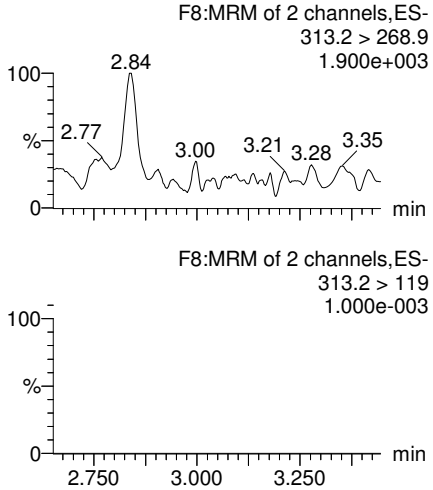
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

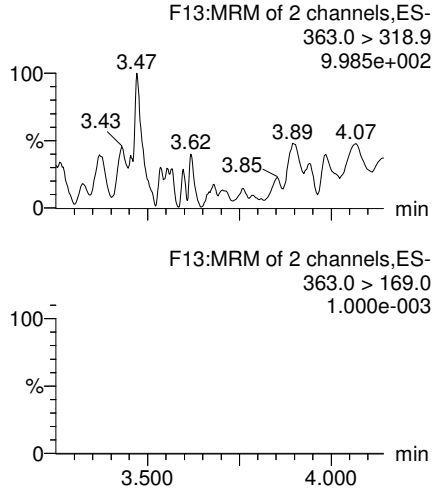
PFBS



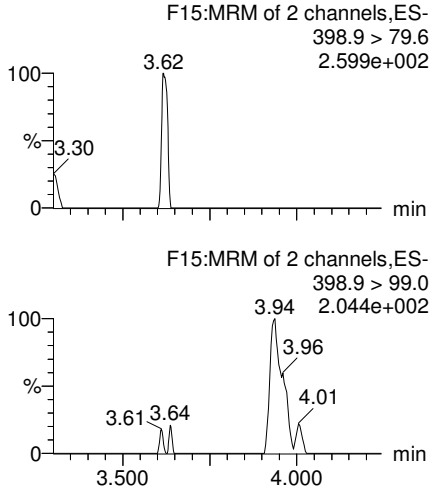
PFHxA



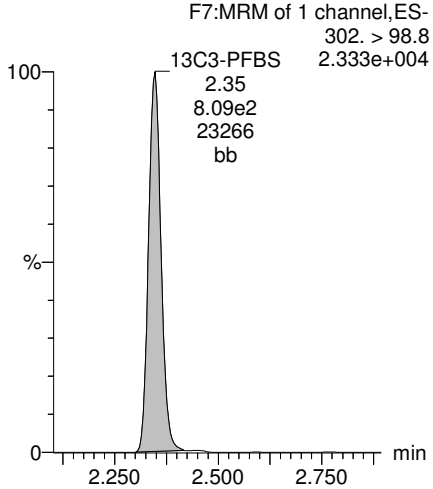
PFHpA



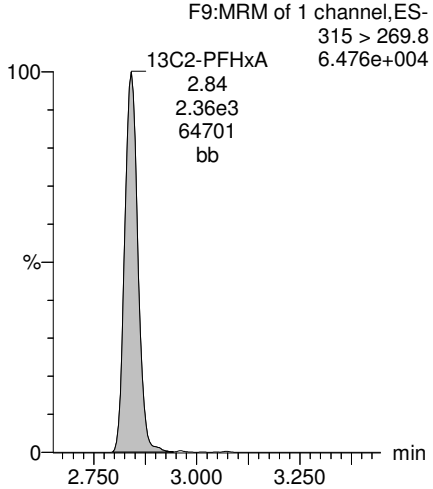
Total PFHxS



13C3-PFBS



13C2-PFHxA



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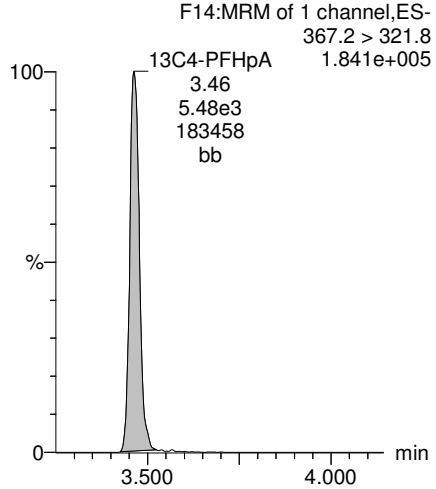
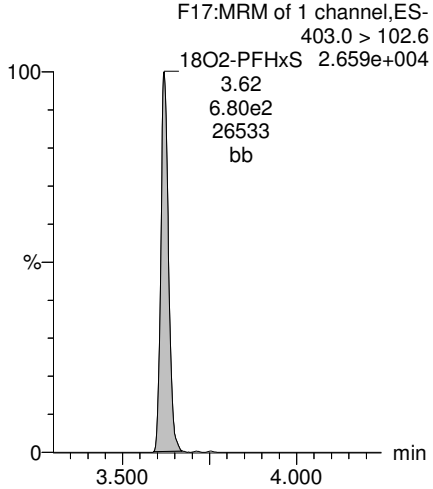


18O2-PFHxS



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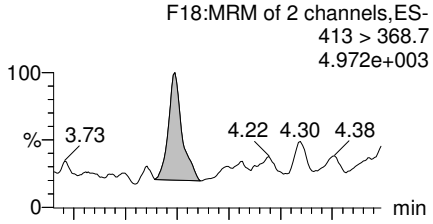
Rev'd: MM 11/27/17

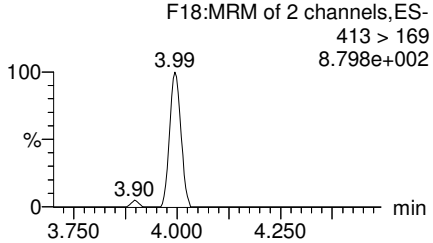
Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

Total PFOA





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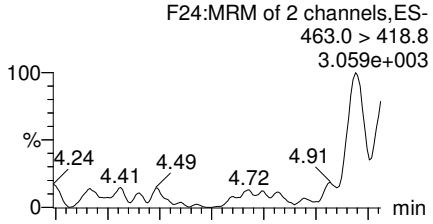
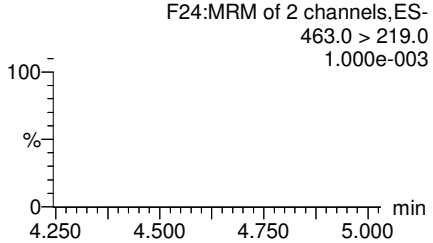
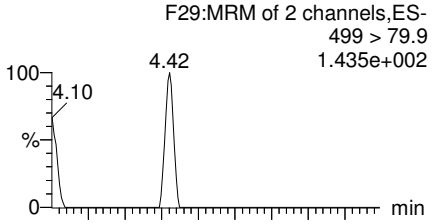
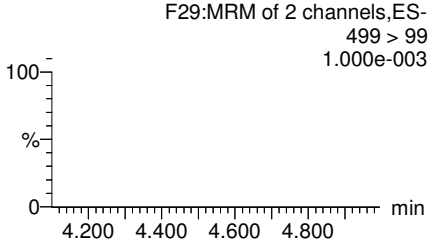




Total PFOS





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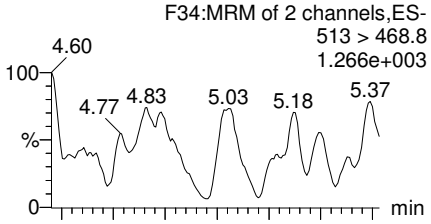
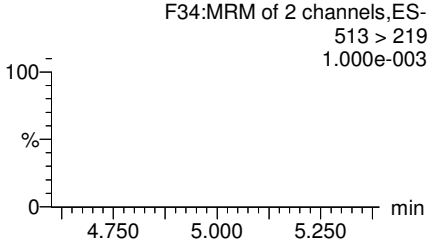
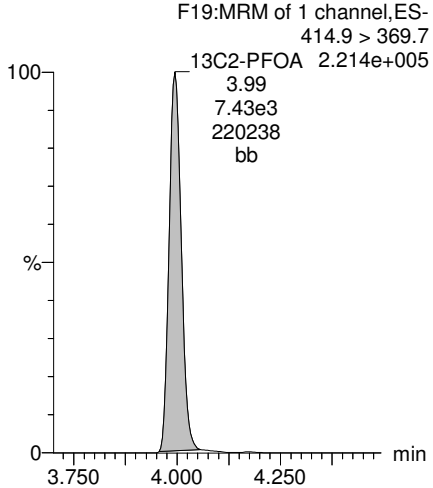
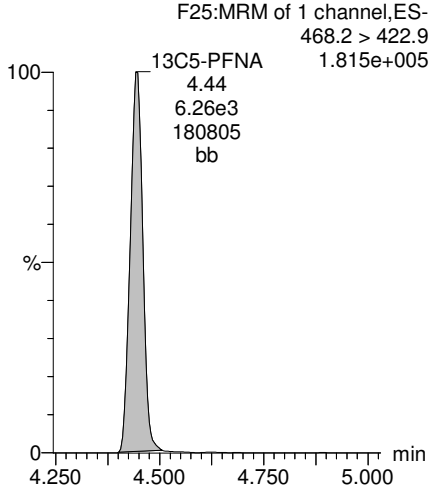




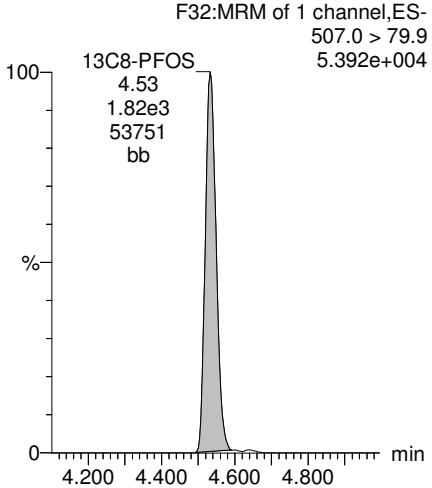
13C2-PFOA



13C5-PFNA



13C8-PFOS



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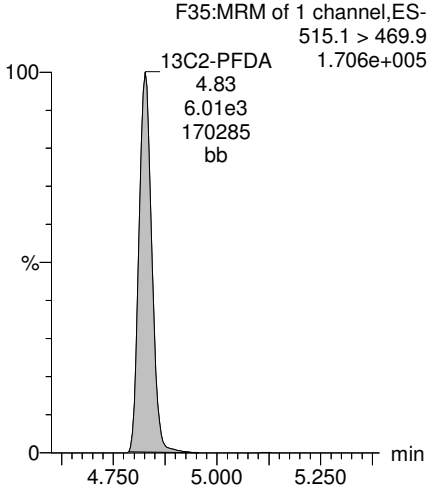

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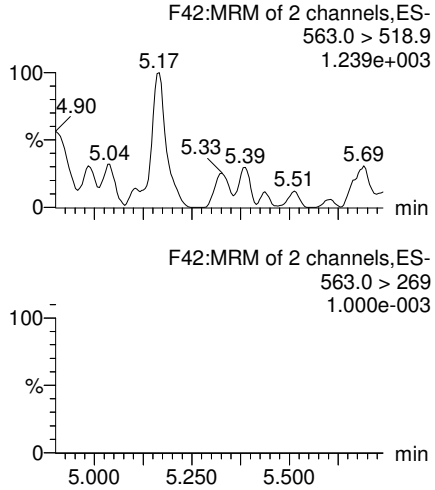
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

PFUdA



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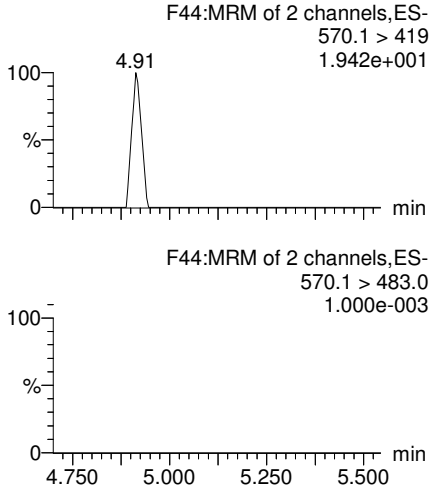

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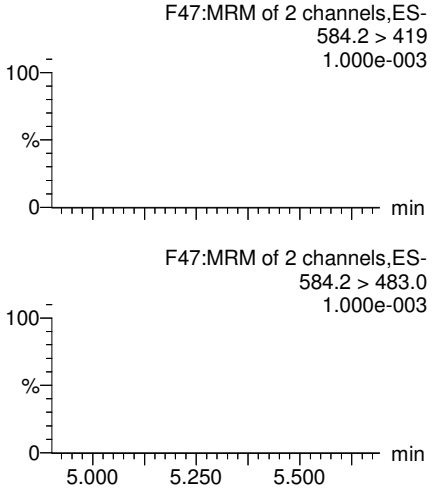
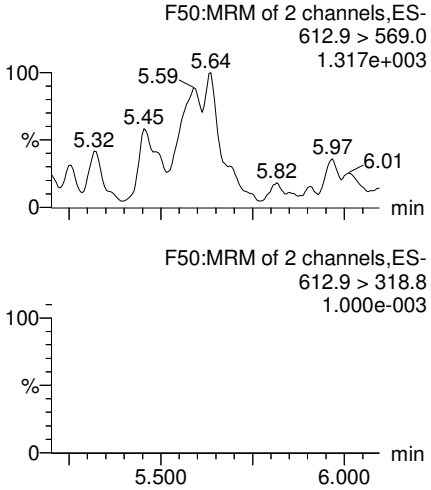
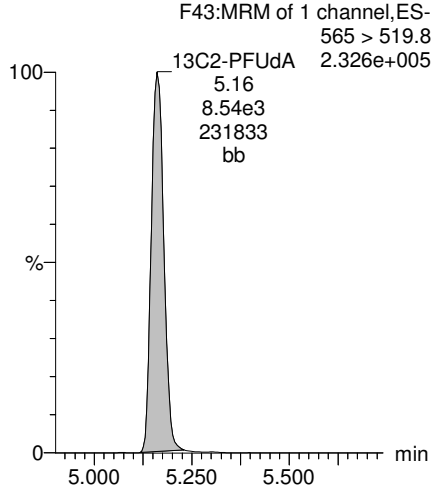


PFDoA



13C2-PFUdA



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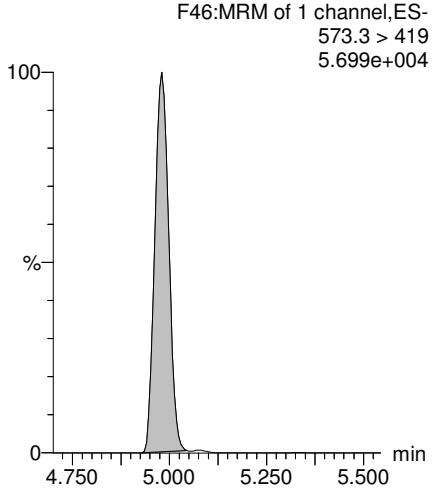
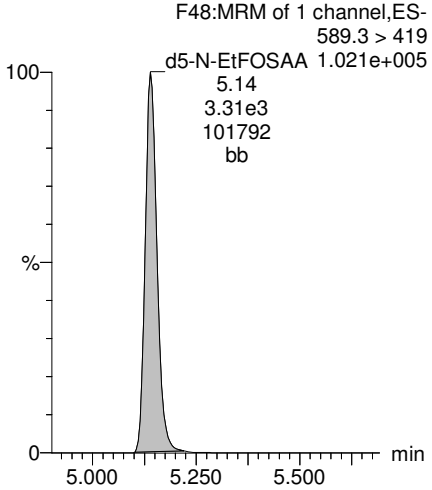


d5-N-EtFOSAA



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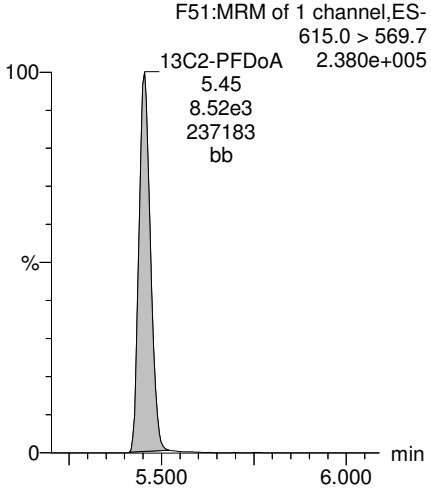

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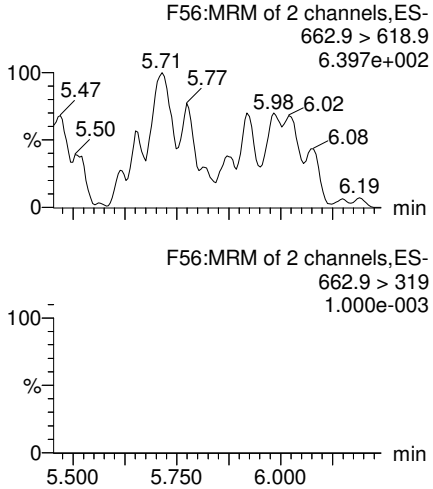
Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

PFTrDA



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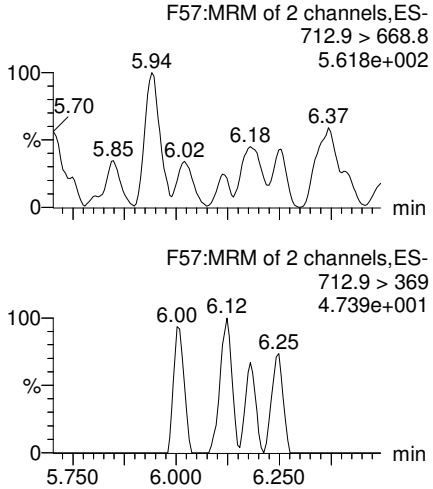
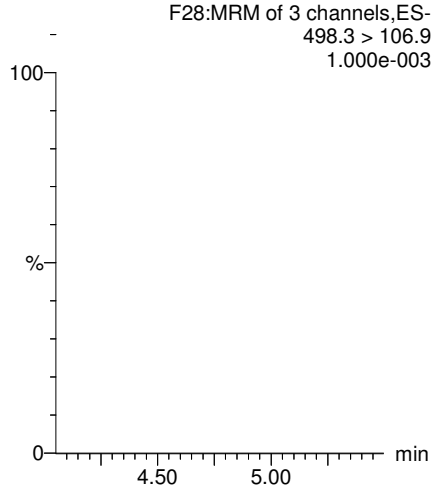


TCDA



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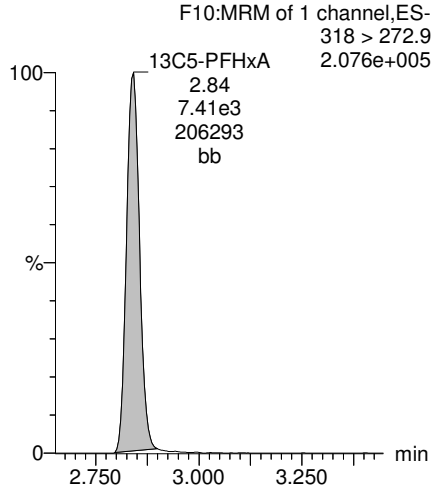
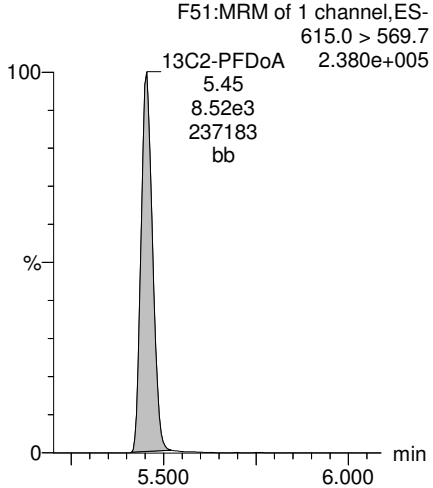
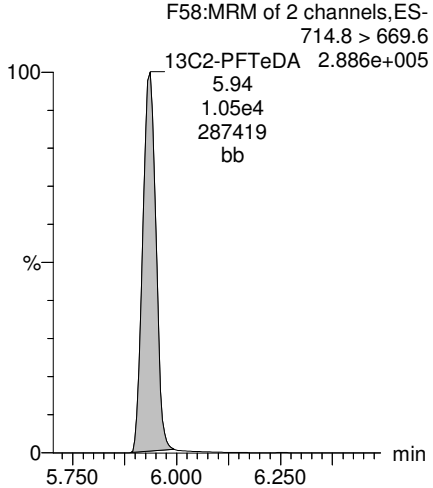


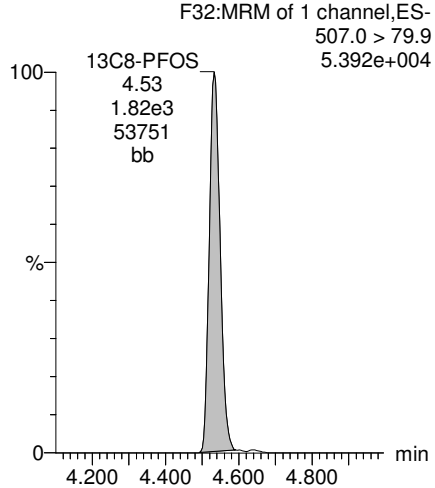
13C2-PFDoA



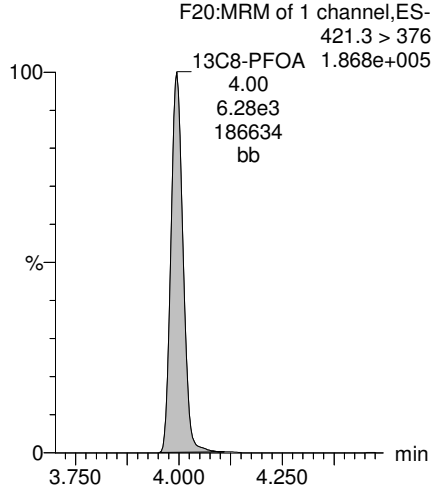
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



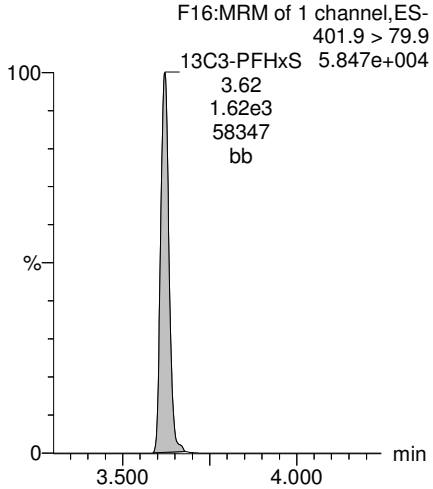
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-52.qld

Last Altered: Monday, November 27, 2017 09:55:32 Pacific Standard Time
Printed: Monday, November 27, 2017 09:58:40 Pacific Standard Time

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

13C3-PFHxS



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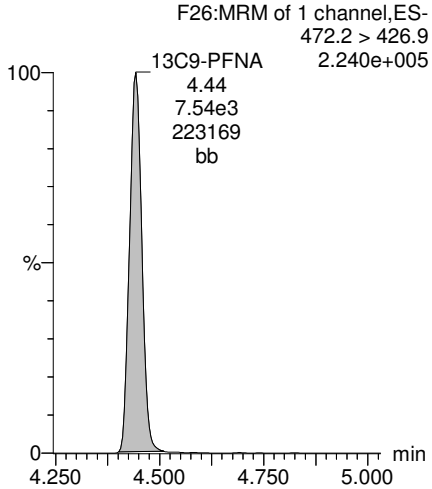
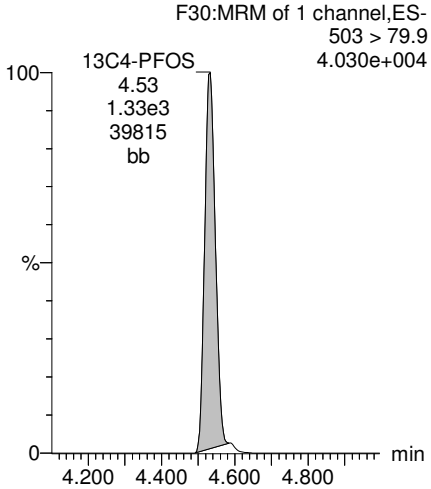
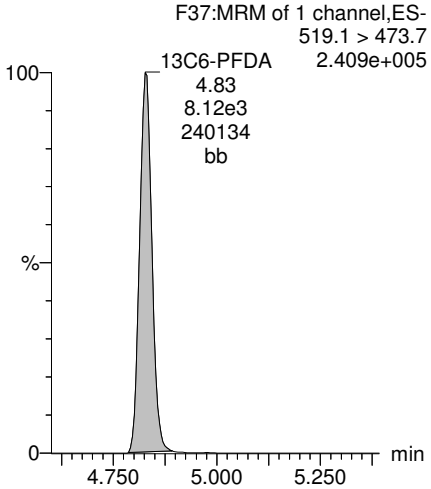


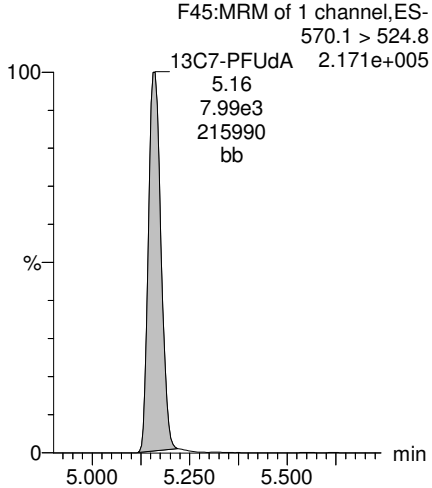
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-53.qld

Last Altered: Monday, November 27, 2017 10:01:13 Pacific Standard Time
Printed: Monday, November 27, 2017 10:05:15 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.35e2	0.11792		2.44				
2	4	PFHxA	313.2 > 268.9		2.08e3	0.11792		2.93				
3	5	PFHpA	363.0 > 318.9		5.55e3	0.11792		3.56				
4	6	L-PFHxS	398.9 > 79.6	3.44e0	5.90e2	0.11792		3.71	3.62	0.0728		
5	9	L-PFOA	413 > 368.7	1.11e2	7.35e3	0.11792		4.05	4.00	0.189		
6	12	PFNA	463.0 > 418.8		5.52e3	0.11792		4.55				
7	14	L-PFOS	499 > 79.9		1.44e3	0.11792		4.63				
8	16	PFDA	513 > 468.8		5.39e3	0.11792		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.60e3	0.11792		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.82e3	0.11792		5.24				
11	20	PFUdA	563.0 > 518.9		6.86e3	0.11792		5.25				
12	22	PFDoA	612.9 > 569.0		8.21e3	0.11792		5.55				

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-53.qld

Last Altered: Monday, November 27, 2017 10:01:13 Pacific Standard Time
Printed: Monday, November 27, 2017 10:05:43 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		8.21e3	0.11792		5.80				
2	25	PFTeDA	712.9 > 668.8		8.52e3	0.11792		6.02				
3	31	13C3-PFBA	216.1 > 171.8	4.91e3	5.08e3	0.11792	0.884	1.17	1.10	12.1	116.000	109.4
4	32	13C3-PFPeA	266. > 221.8	5.52e3	6.87e3	0.11792	0.727	2.15	2.06	10.0	117.163	110.5
5	33	13C3-PFBS	302. > 98.8	7.35e2	6.87e3	0.11792	0.083	2.44	2.35	1.34	136.897	129.1
6	34	13C2-PFHxA	315 > 269.8	2.08e3	6.87e3	0.11792	0.703	2.93	2.84	3.79	45.743	107.9
7	35	13C4-PFHpA	367.2 > 321.8	5.55e3	6.87e3	0.11792	0.656	3.56	3.46	10.1	130.419	123.0
8	36	18O2-PFHxS	403.0 > 102.6	5.90e2	1.41e3	0.11792	0.408	3.71	3.62	5.23	108.598	102.4
9	37	13C2-6:2 FTS	429.1 > 408.9	1.76e3	5.31e3	0.11792	0.243	4.03	3.94	4.14	144.256	136.1
10	38	13C2-PFOA	414.9 > 369.7	7.35e3	5.31e3	0.11792	1.076	4.05	3.99	17.3	136.451	128.7
11	39	13C5-PFNA	468.2 > 422.9	5.52e3	6.42e3	0.11792	0.914	4.55	4.44	10.8	99.740	94.1
12	40	13C8-PFOSA	506.1 > 77.7	1.14e3	8.40e3	0.11792	0.211	4.59	4.50	1.70	68.479	64.6
13	41	13C8-PFOS	507.0 > 79.9	1.44e3	1.63e3	0.11792	0.982	4.63	4.53	11.0	95.324	89.9
14	42	13C2-PFDA	515.1 > 469.9	5.39e3	7.25e3	0.11792	0.891	4.92	4.83	9.30	88.448	83.4
15	43	13C2-8:2 FTS	529.1 > 508.7	1.46e3	7.25e3	0.11792	0.198	4.89	4.80	2.52	107.954	101.8
16	44	d3-N-MeFOSAA	573.3 > 419	2.60e3	8.40e3	0.11792	0.361	5.08	4.98	3.88	91.115	86.0
17	45	d5-N-EtFOSAA	589.3 > 419	2.82e3	8.40e3	0.11792	0.394	5.24	5.14	4.20	90.349	85.2
18	46	13C2-PFUdA	565 > 519.8	6.86e3	8.40e3	0.11792	0.966	5.25	5.16	10.2	89.667	84.6
19	47	13C2-PFDoA	615.0 > 569.7	8.21e3	8.40e3	0.11792	0.989	5.55	5.45	12.2	104.767	98.8
20	49	13C2-PFTeDA	714.8 > 669.6	8.52e3	8.40e3	0.11792	0.927	6.02	5.93	12.7	116.010	109.4
21	54	13C4-PFBA	217. > 171.8	5.08e3	5.08e3	0.11792	1.000	1.17	1.10	12.5	106.004	100.0
22	55	13C5-PFHxA	318 > 272.9	6.87e3	6.87e3	0.11792	1.000	2.93	2.84	12.5	106.004	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.41e3	1.41e3	0.11792	1.000	3.71	3.62	12.5	106.004	100.0
24	57	13C8-PFOA	421.3 > 376	5.31e3	5.31e3	0.11792	1.000	4.05	4.00	12.5	106.004	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.42e3	6.42e3	0.11792	1.000	4.55	4.44	12.5	106.004	100.0
26	59	13C4-PFOS	503 > 79.9	1.63e3	1.63e3	0.11792	1.000	4.63	4.53	12.5	106.004	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.25e3	7.25e3	0.11792	1.000	4.92	4.83	12.5	106.004	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.40e3	8.40e3	0.11792	1.000	5.25	5.16	12.5	106.004	100.0
29	62	Total PFHxS	398.9 > 79.6	3.44e0	5.90e2	0.11792		3.71		0.000		
30	63	Total PFOA	413 > 368.7	1.11e2	7.35e3	0.11792		4.05		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	1.44e3	0.11792		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.60e3	0.11792		5.08		0.000		

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-53.qld

Last Altered: Monday, November 27, 2017 10:01:13 Pacific Standard Time
Printed: Monday, November 27, 2017 10:05:43 Pacific Standard Time

Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.82e3	0.11792		5.24		0.000		

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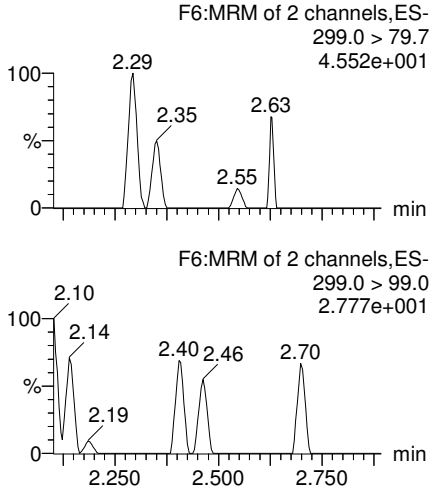
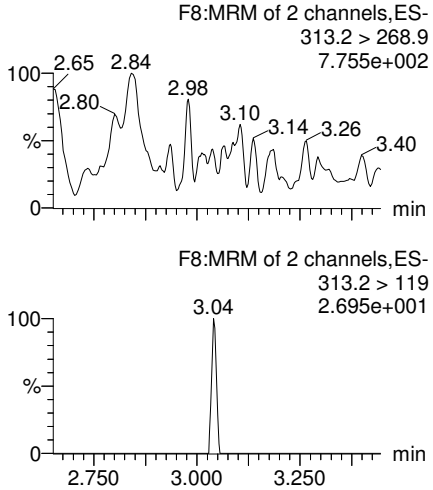
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

PFBS



PFHxA



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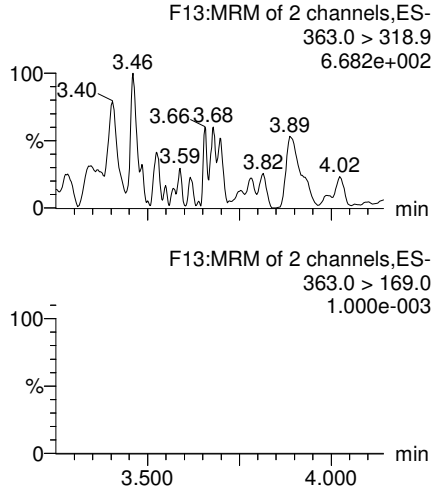
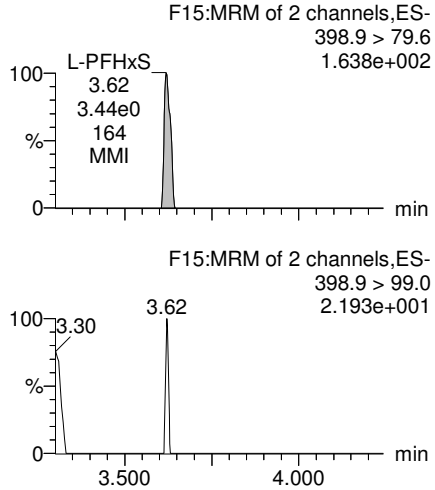


Total PFHxS



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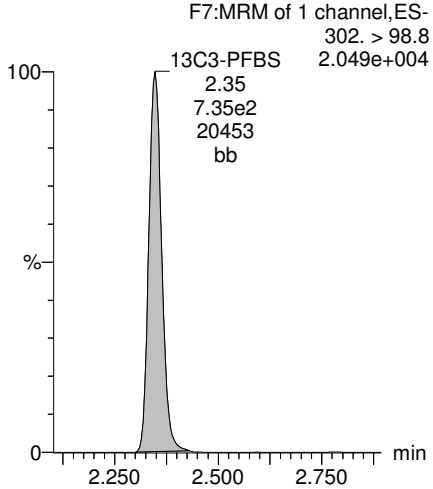

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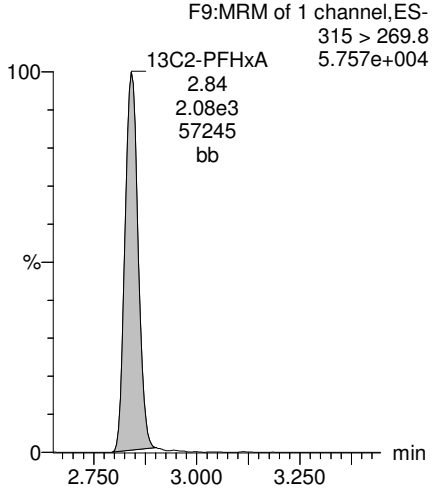

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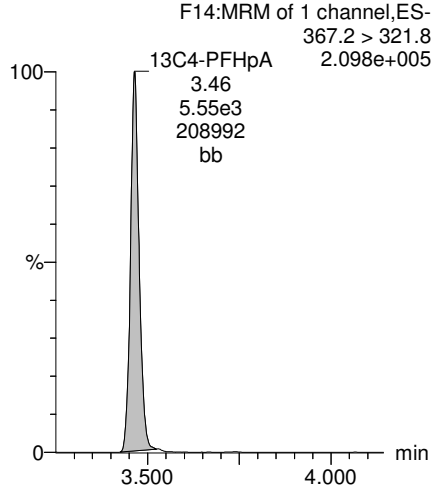

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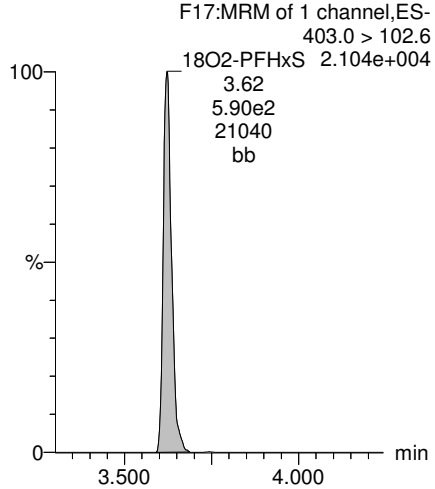

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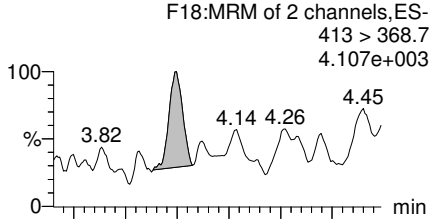
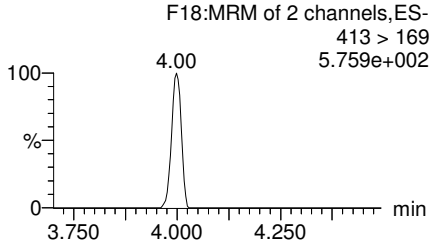
Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

Total PFOA





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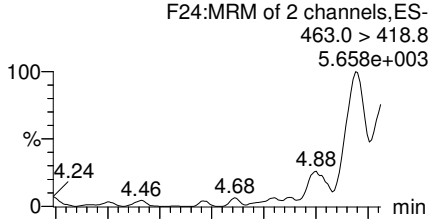
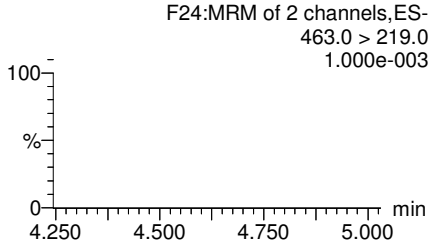
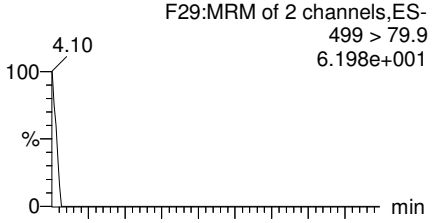
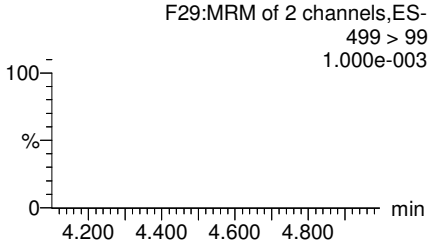




Total PFOS





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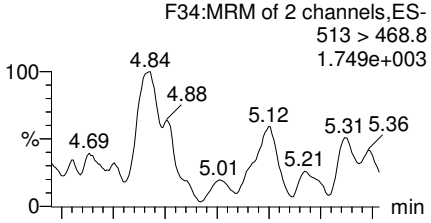

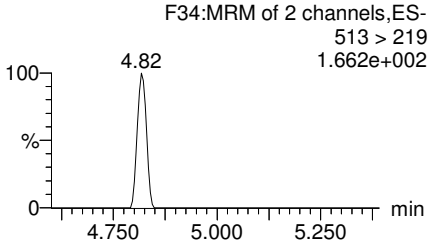

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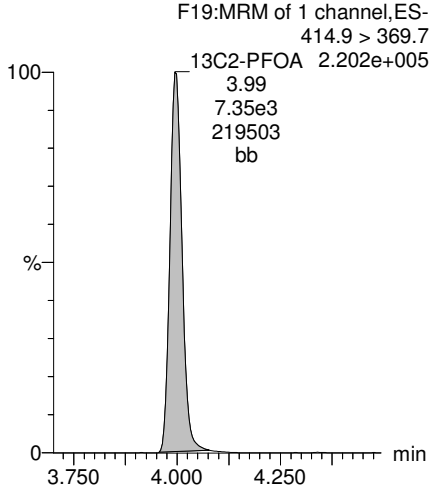

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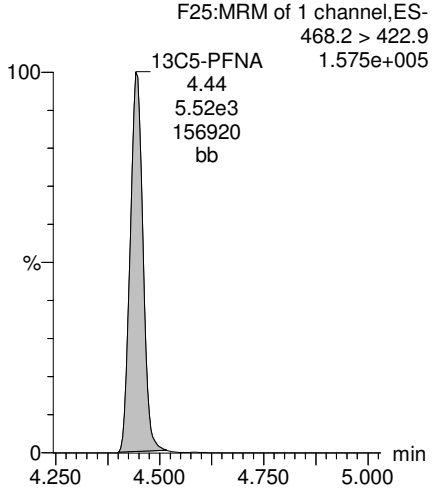

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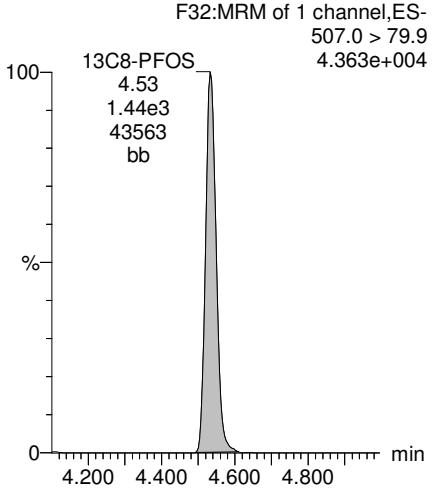

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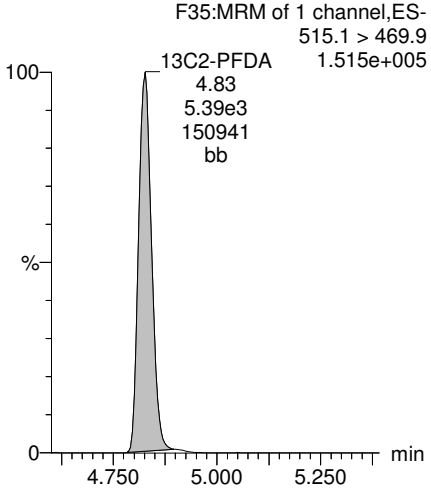

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-53.qld

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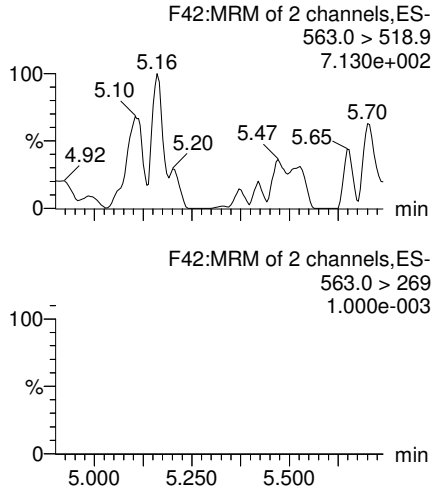
Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

PFUdA



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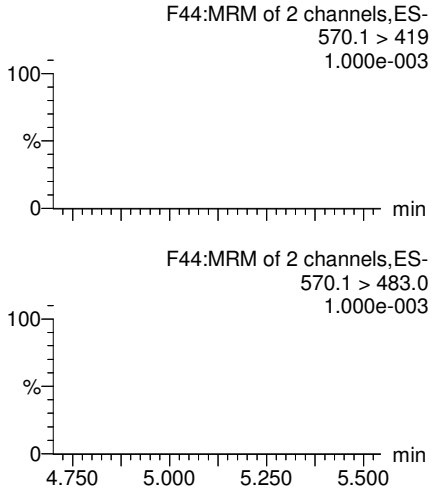

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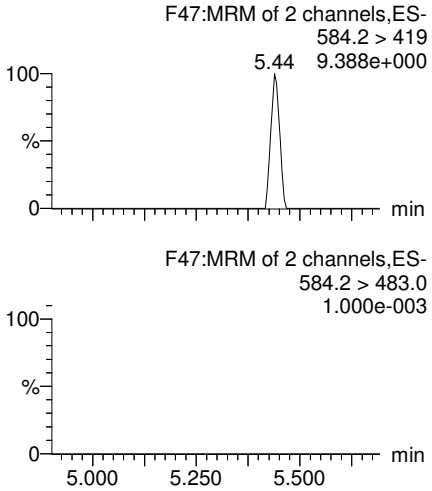

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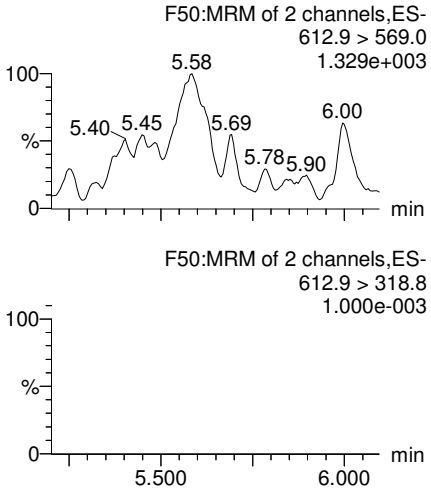

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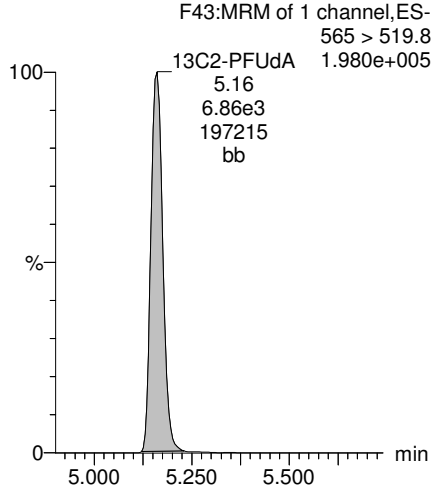

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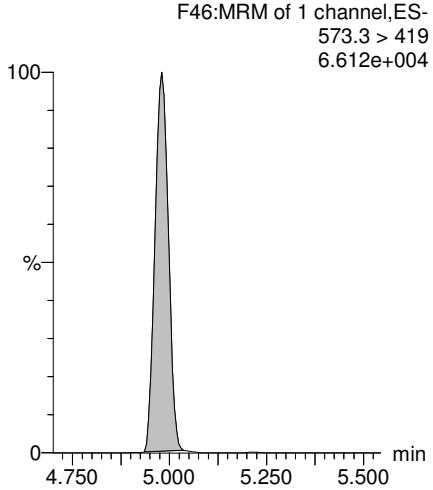

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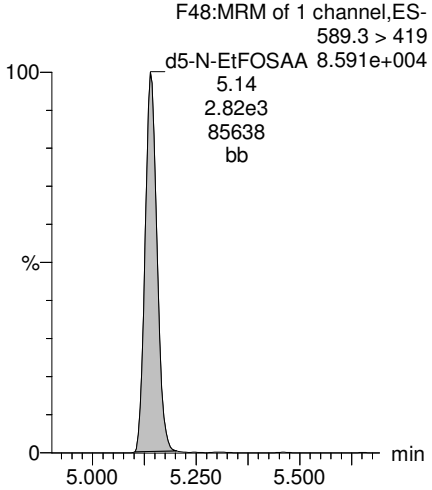

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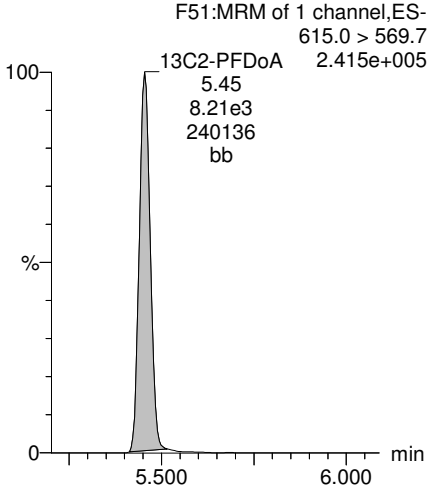

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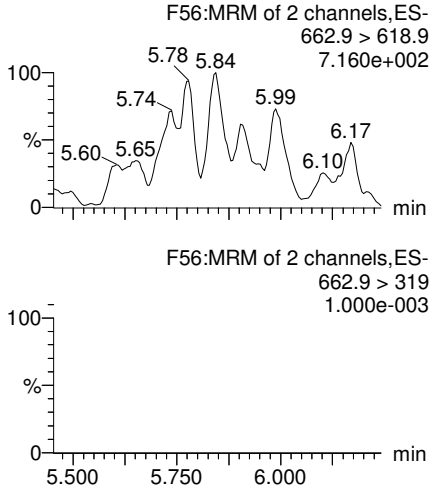

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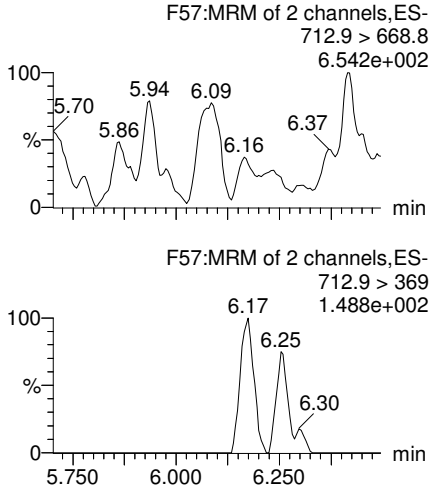

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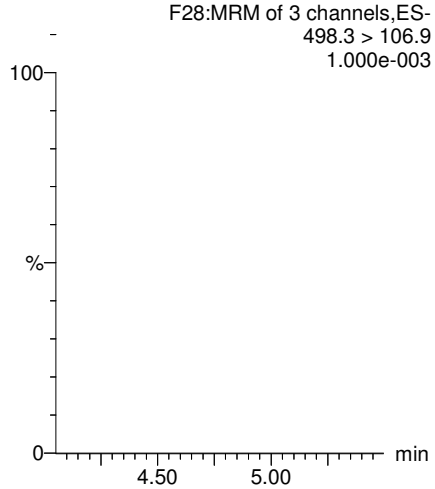

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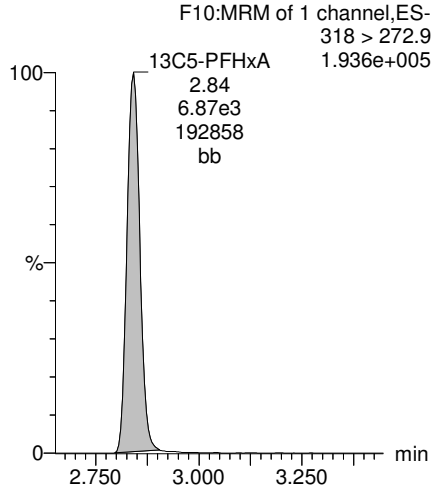

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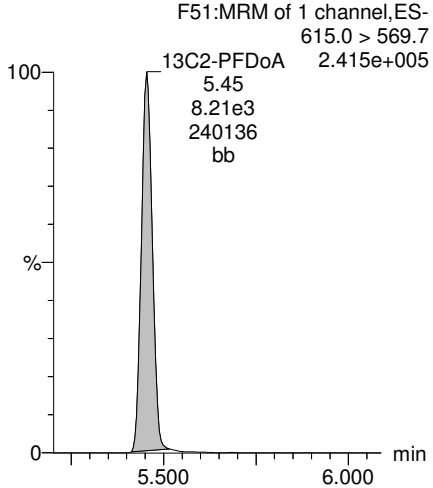

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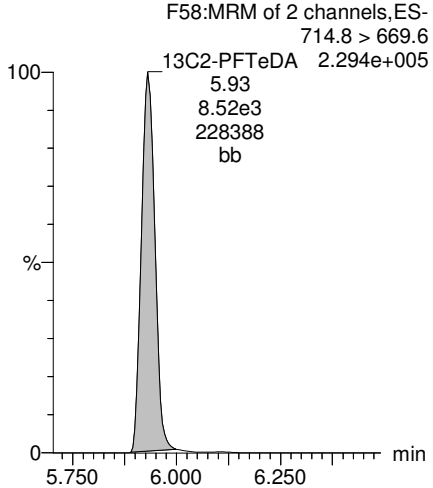

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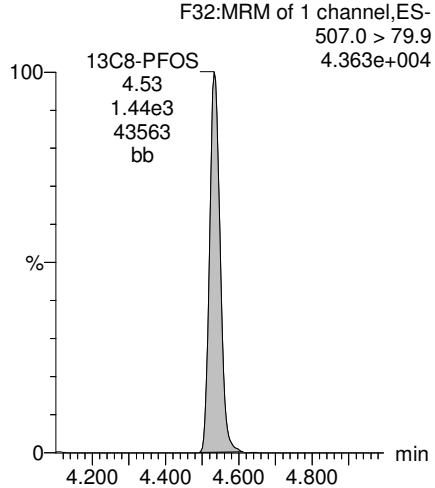

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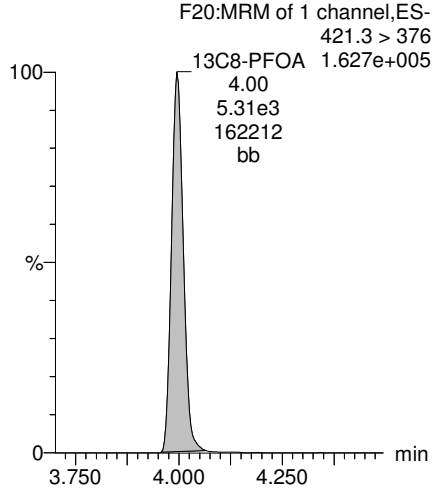

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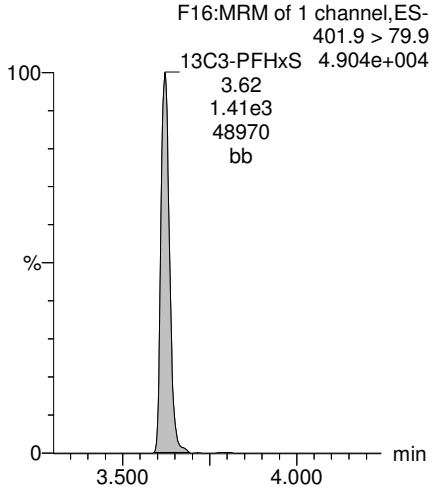

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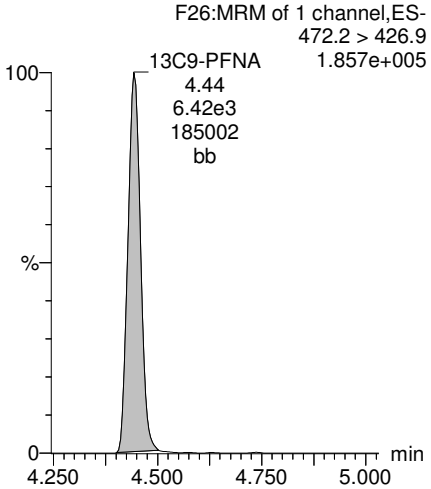
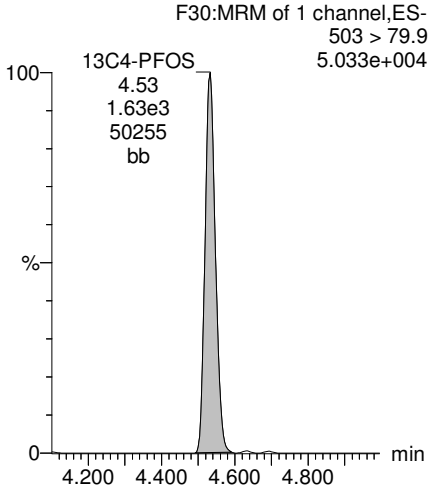
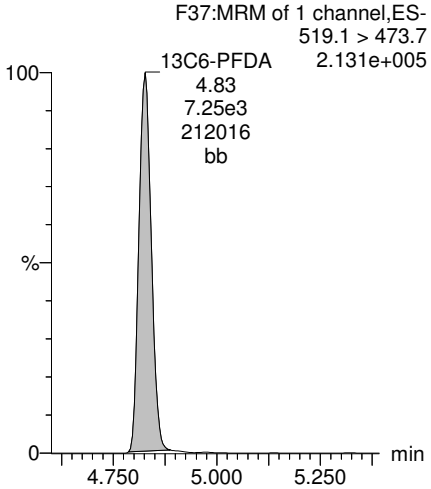


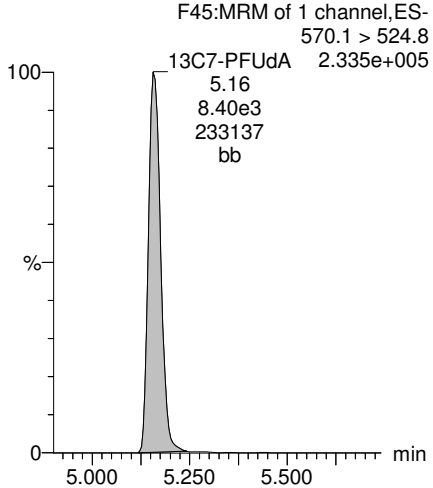
13C4-PFOS



13C6-PFDA



13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:15:40 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.42e1	8.03e2	0.12012		2.44	2.34	0.376	0.981	
2	4	PFHxA	313.2 > 268.9		2.25e3	0.12012		2.93				
3	5	PFHpA	363.0 > 318.9		5.33e3	0.12012		3.56				
4	6	L-PFHxS	398.9 > 79.6	1.15e2	6.31e2	0.12012		3.71	3.62	2.29	7.884	
5	9	L-PFOA	413 > 368.7	1.05e2	8.26e3	0.12012		4.05	3.99	0.158		
6	12	PFNA	463.0 > 418.8		6.38e3	0.12012		4.55				
7	14	L-PFOS	499 > 79.9		1.86e3	0.12012		4.63				
8	16	PFDA	513 > 468.8		6.52e3	0.12012		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.62e3	0.12012		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.95e3	0.12012		5.24				
11	20	PFUdA	563.0 > 518.9		7.97e3	0.12012		5.25				
12	22	PFDoA	612.9 > 569.0		8.73e3	0.12012		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		8.73e3	0.12012		5.80				
2	25	PFTeDA	712.9 > 668.8		1.09e4	0.12012		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.31e3	5.10e3	0.12012	0.884	1.17	1.09	13.0	122.554	117.8
4	32	13C3-PFPeA	266. > 221.8	5.81e3	6.67e3	0.12012	0.727	2.15	2.05	10.9	124.639	119.8
5	33	13C3-PFBS	302. > 98.8	8.03e2	6.67e3	0.12012	0.083	2.44	2.34	1.50	151.192	145.3
6	34	13C2-PFHxA	315 > 269.8	2.25e3	6.67e3	0.12012	0.703	2.93	2.84	4.22	49.949	120.0
7	35	13C4-PFHpA	367.2 > 321.8	5.33e3	6.67e3	0.12012	0.656	3.56	3.46	9.99	126.744	121.8
8	36	18O2-PFHxS	403.0 > 102.6	6.31e2	1.42e3	0.12012	0.408	3.71	3.62	5.55	113.242	108.8
9	37	13C2-6:2 FTS	429.1 > 408.9	1.85e3	5.73e3	0.12012	0.243	4.03	3.94	4.02	137.713	132.3
10	38	13C2-PFOA	414.9 > 369.7	8.26e3	5.73e3	0.12012	1.076	4.05	3.99	18.0	139.426	134.0
11	39	13C5-PFNA	468.2 > 422.9	6.38e3	6.87e3	0.12012	0.914	4.55	4.44	11.6	105.807	101.7
12	40	13C8-PFOSA	506.1 > 77.7	1.16e3	7.97e3	0.12012	0.211	4.59	4.49	1.82	71.749	68.9
13	41	13C8-PFOS	507.0 > 79.9	1.86e3	1.82e3	0.12012	0.982	4.63	4.53	12.8	108.212	104.0
14	42	13C2-PFDA	515.1 > 469.9	6.52e3	8.00e3	0.12012	0.891	4.92	4.82	10.2	95.193	91.5
15	43	13C2-8:2 FTS	529.1 > 508.7	1.72e3	8.00e3	0.12012	0.198	4.89	4.79	2.69	113.123	108.7
16	44	d3-N-MeFOSAA	573.3 > 419	2.62e3	7.97e3	0.12012	0.361	5.08	4.98	4.12	94.989	91.3
17	45	d5-N-EtFOSAA	589.3 > 419	2.95e3	7.97e3	0.12012	0.394	5.24	5.14	4.62	97.599	93.8
18	46	13C2-PFUdA	565 > 519.8	7.97e3	7.97e3	0.12012	0.966	5.25	5.16	12.5	107.688	103.5
19	47	13C2-PFDoA	615.0 > 569.7	8.73e3	7.97e3	0.12012	0.989	5.55	5.45	13.7	115.177	110.7
20	49	13C2-PFTeDA	714.8 > 669.6	1.09e4	7.97e3	0.12012	0.927	6.02	5.93	17.1	153.711	147.7
21	54	13C4-PFBA	217. > 171.8	5.10e3	5.10e3	0.12012	1.000	1.17	1.09	12.5	104.063	100.0
22	55	13C5-PFHxA	318 > 272.9	6.67e3	6.67e3	0.12012	1.000	2.93	2.84	12.5	104.063	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.42e3	1.42e3	0.12012	1.000	3.71	3.62	12.5	104.063	100.0
24	57	13C8-PFOA	421.3 > 376	5.73e3	5.73e3	0.12012	1.000	4.05	3.99	12.5	104.063	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.87e3	6.87e3	0.12012	1.000	4.55	4.44	12.5	104.063	100.0
26	59	13C4-PFOS	503 > 79.9	1.82e3	1.82e3	0.12012	1.000	4.63	4.53	12.5	104.063	100.0
27	60	13C6-PFDA	519.1 > 473.7	8.00e3	8.00e3	0.12012	1.000	4.92	4.82	12.5	104.063	100.0
28	61	13C7-PFUdA	570.1 > 524.8	7.97e3	7.97e3	0.12012	1.000	5.25	5.16	12.5	104.063	100.0
29	62	Total PFHxS	398.9 > 79.6	1.15e2	6.31e2	0.12012		3.71		2.29	7.884	
30	63	Total PFOA	413 > 368.7	1.05e2	8.26e3	0.12012		4.05		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	1.86e3	0.12012		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.62e3	0.12012		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.95e3	0.12012		5.24		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

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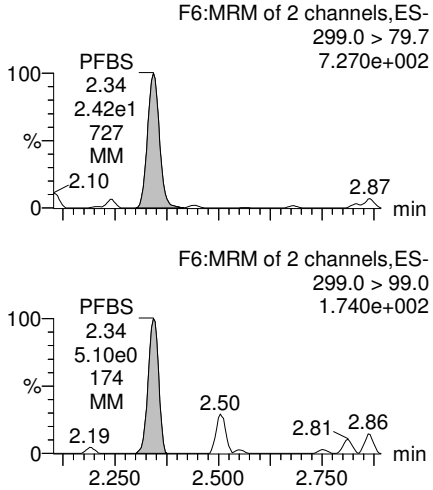

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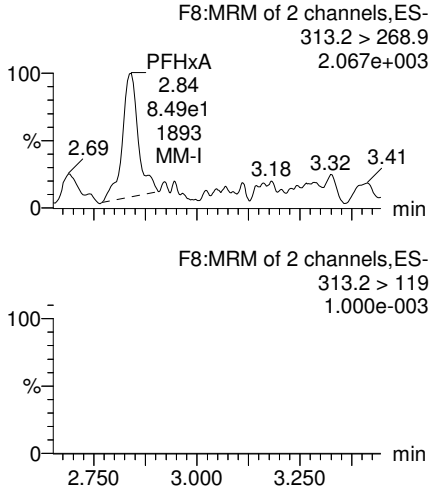

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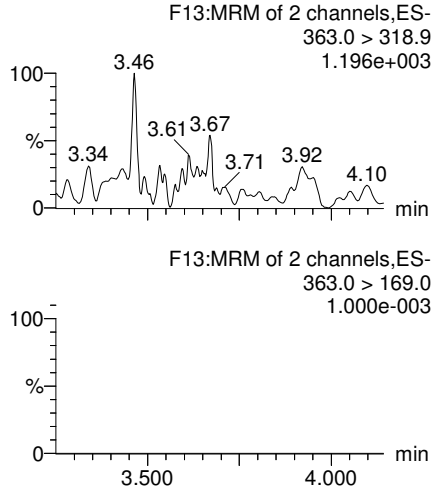

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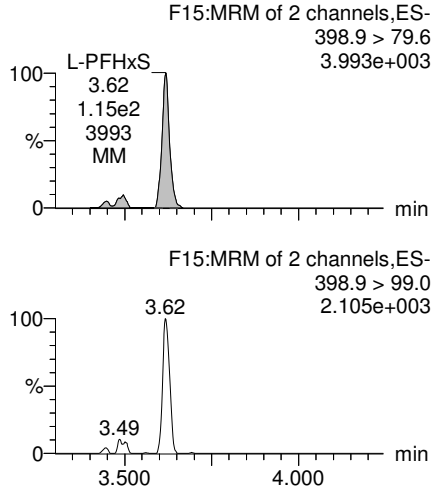

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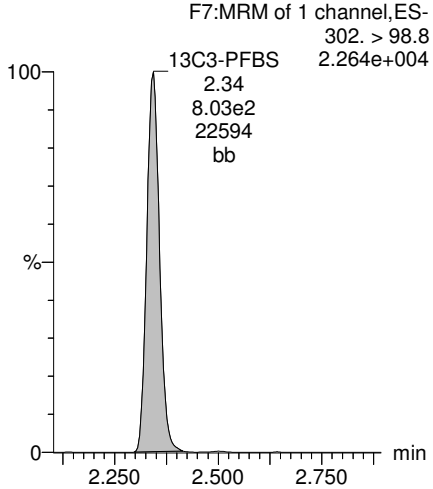

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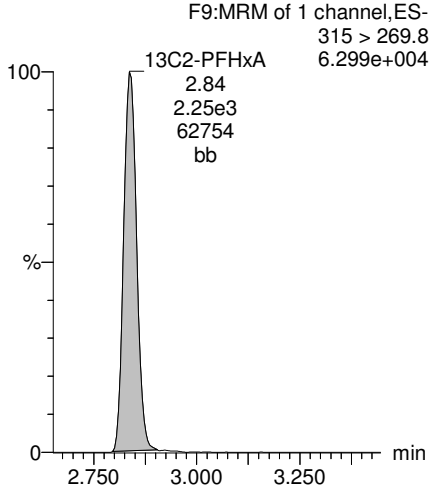

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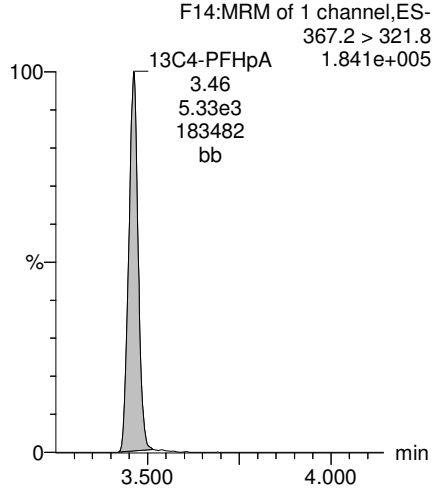

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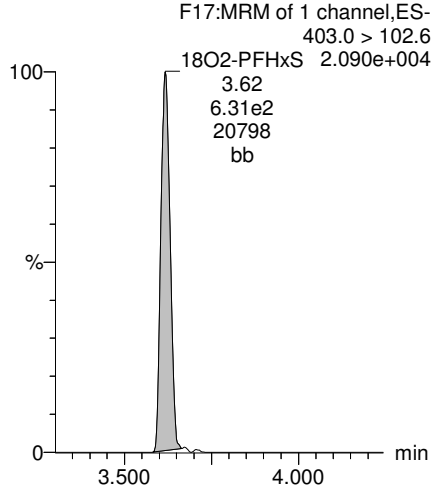


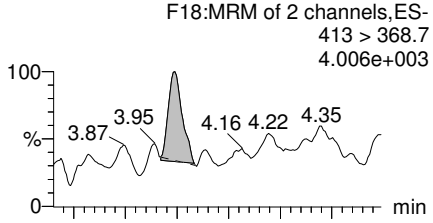
MJT11/27/2017

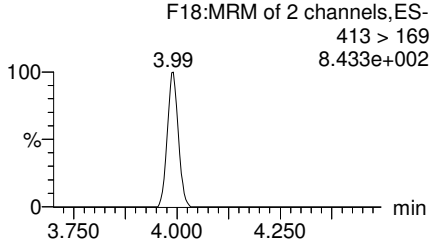
Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

Total PFOA





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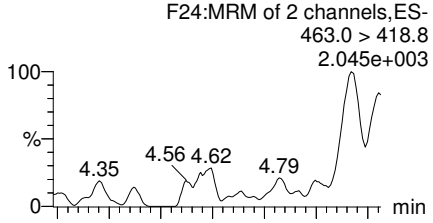

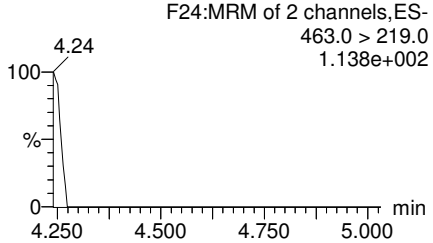

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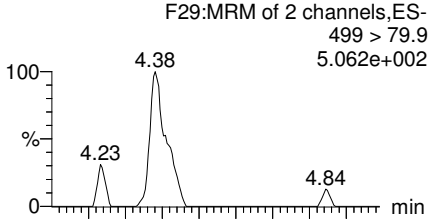

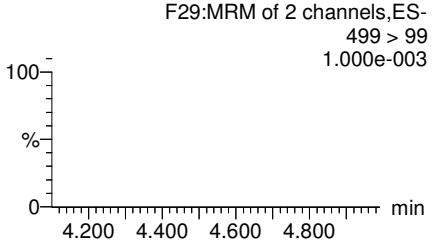

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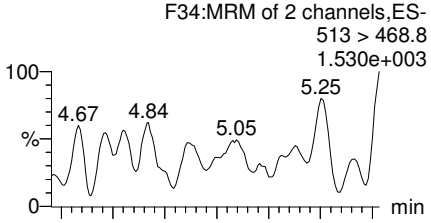
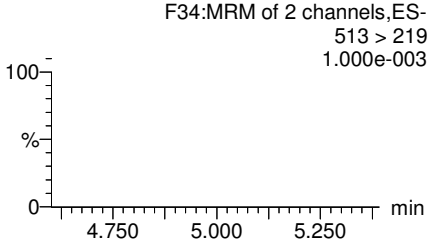
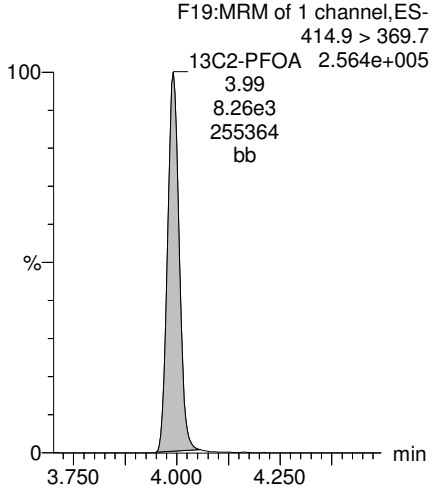




13C2-PFOA



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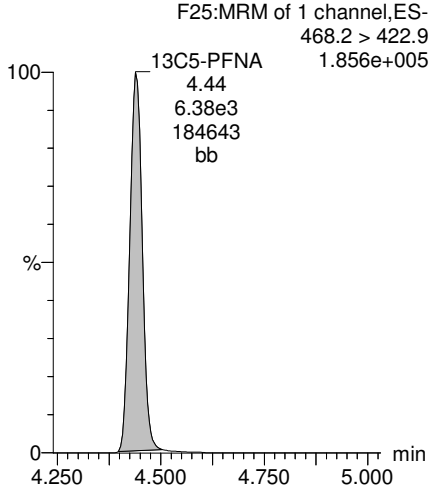

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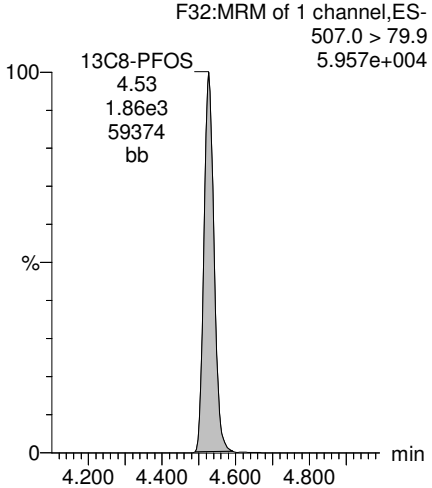

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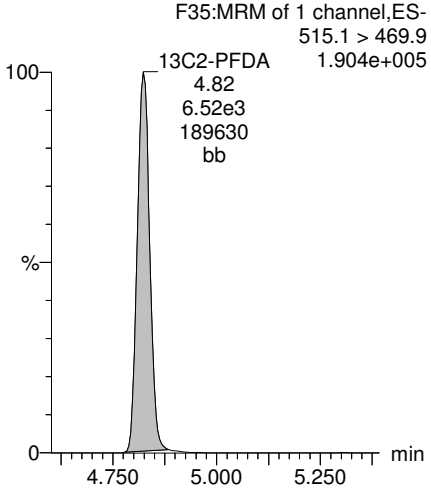


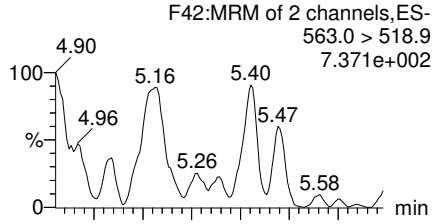
MJT11/27/2017

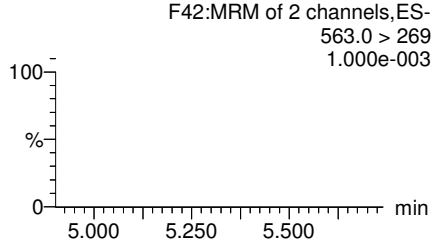
Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

PFUdA





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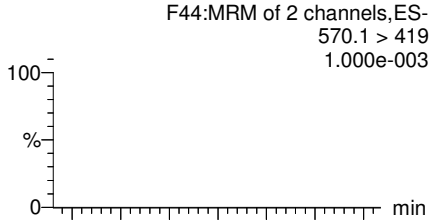

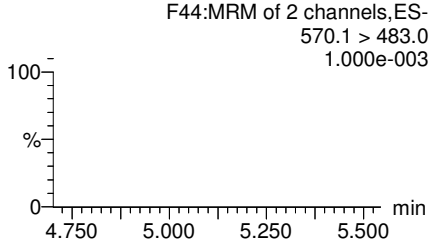

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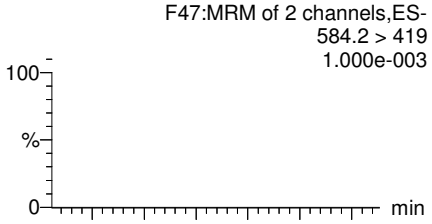
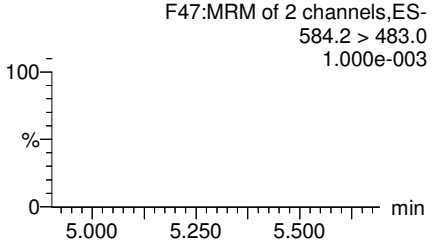
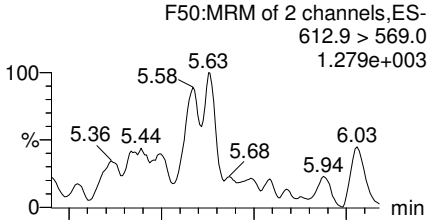
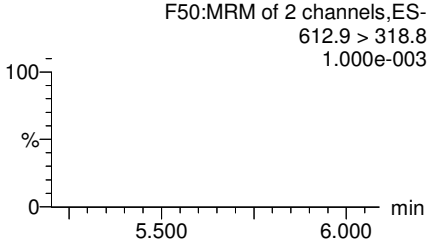


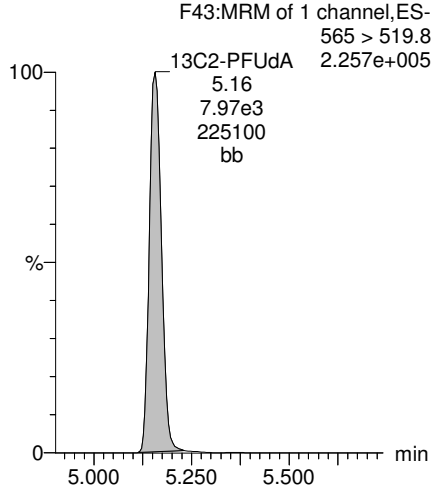


PFDoA

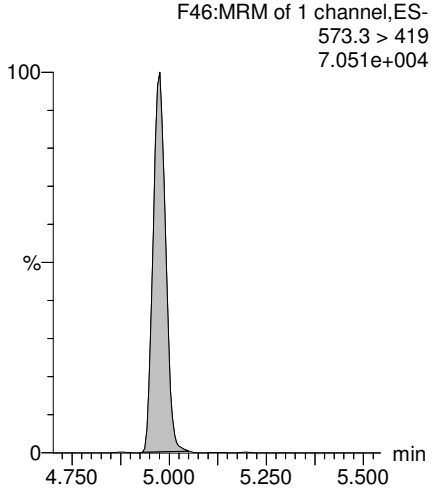




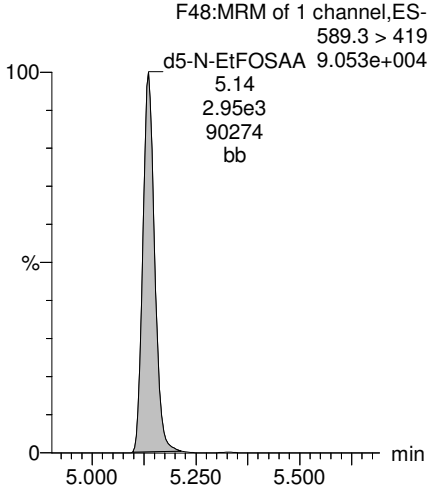
13C2-PFUdA



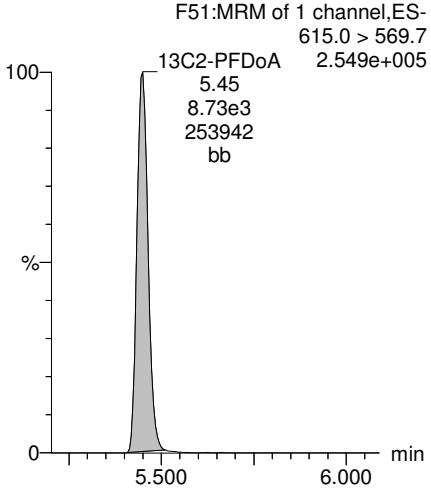
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

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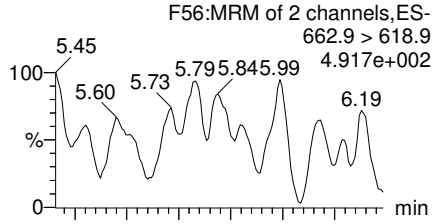
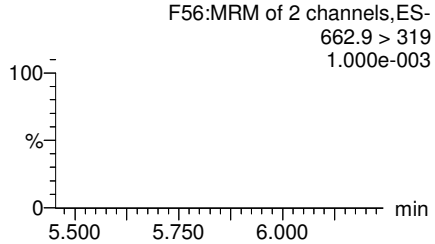
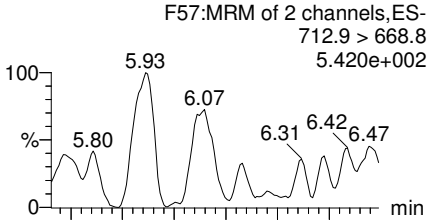
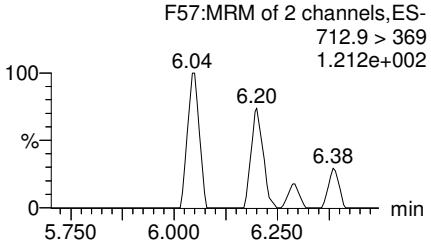


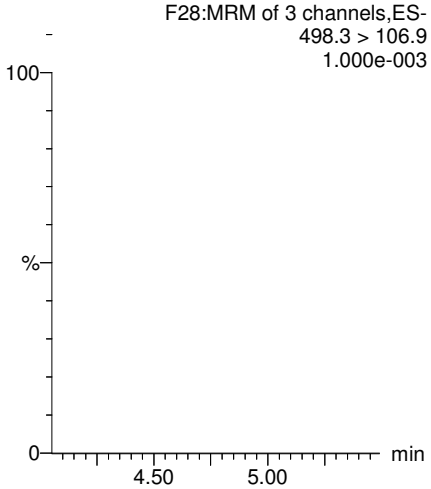


PFTeDA





TCDA



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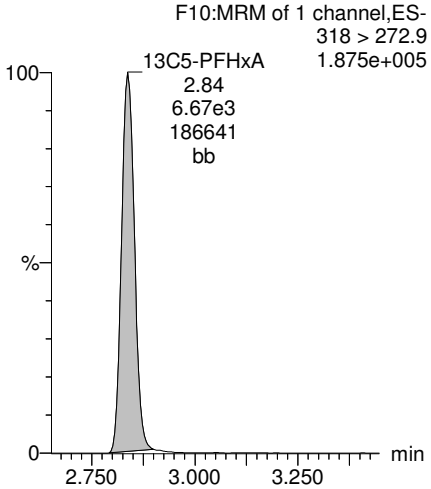
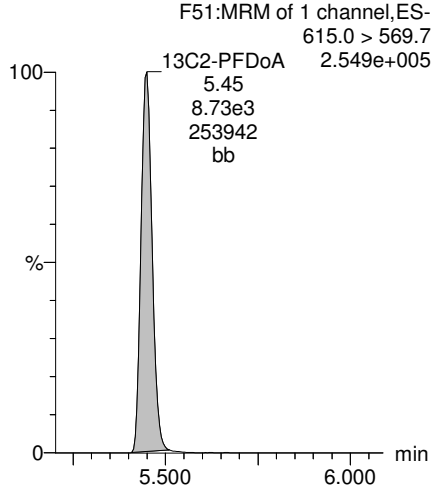


13C2-PFDoA



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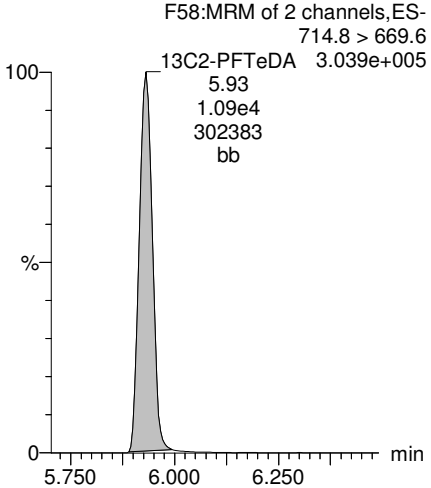

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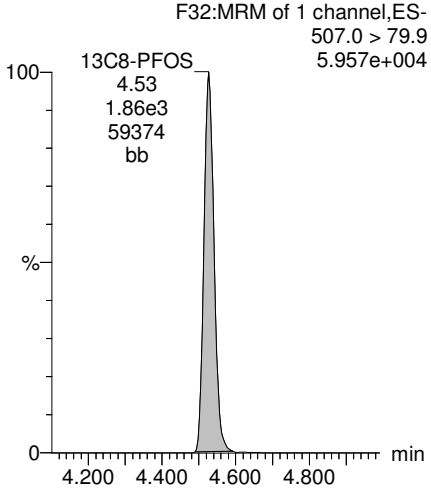
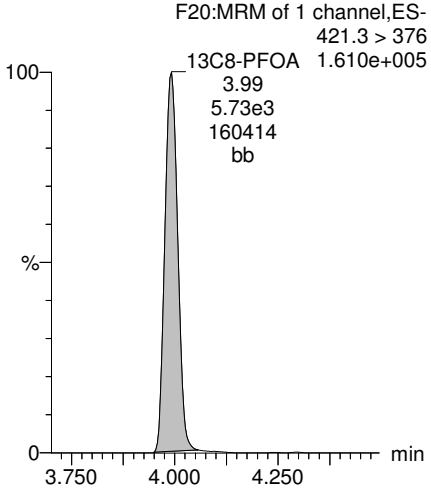


13C8-PFOA



MJT11/27/2017

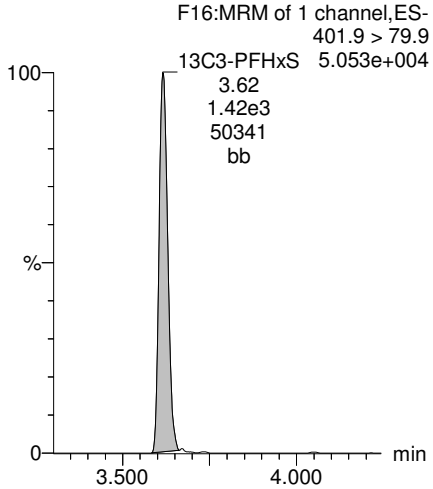
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-54.qld

Last Altered: Monday, November 27, 2017 10:08:42 Pacific Standard Time
Printed: Monday, November 27, 2017 10:16:01 Pacific Standard Time

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

13C3-PFHxS



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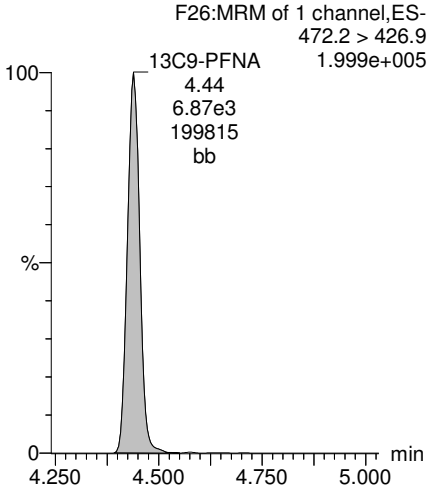
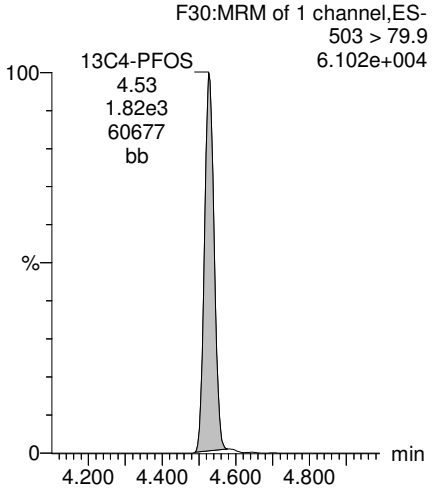
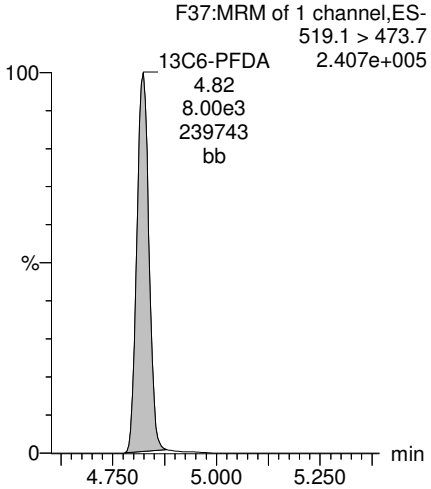


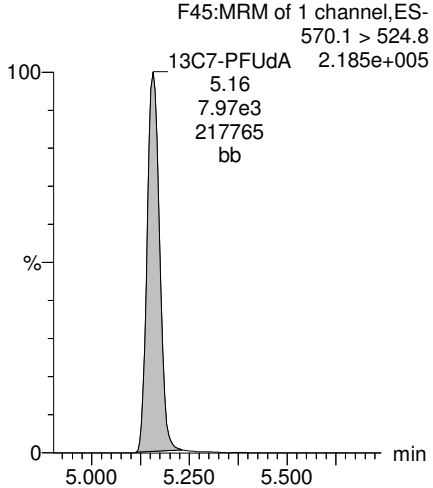
13C4-PFOS



13C6-PFDA



13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:21 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.13e3	6.71e2	0.1166		2.44	2.34	21.0	74.076	
2	4	PFHxA	313.2 > 268.9	6.21e3	2.18e3	0.1166		2.93	2.83	14.2	74.259	
3	5	PFHpA	363.0 > 318.9	5.54e3	5.20e3	0.1166		3.56	3.46	13.3	75.698	
4	6	L-PFHxS	398.9 > 79.6	1.04e3	6.38e2	0.1166		3.71	3.61	20.4	75.502	
5	9	L-PFOA	413 > 368.7	5.50e3	7.40e3	0.1166		4.05	3.99	9.29	78.504	
6	12	PFNA	463.0 > 418.8	5.55e3	7.10e3	0.1166		4.55	4.44	9.77	57.562	
7	14	L-PFOS	499 > 79.9	1.46e3	1.89e3	0.1166		4.63	4.53	9.65	79.122	
8	16	PFDA	513 > 468.8	6.91e3	6.80e3	0.1166		4.92	4.82	12.7	73.008	
9	18	N-MeFOSAA	570.1 > 419	3.36e3	2.49e3	0.1166		5.08	4.98	16.9	94.301	
10	19	N-EtFOSAA	584.2 > 419	2.59e3	2.94e3	0.1166		5.24	5.14	11.0	72.831	
11	20	PFUdA	563.0 > 518.9	5.70e3	6.55e3	0.1166		5.25	5.16	10.9	78.760	
12	22	PFDoA	612.9 > 569.0	5.91e3	7.37e3	0.1166		5.55	5.45	10.0	65.238	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	6.54e3	7.37e3	0.1166		5.80	5.71	11.1	75.244	
2	25	PFTeDA	712.9 > 668.8	7.51e3	8.39e3	0.1166		6.02	5.93	11.2	75.163	
3	31	13C3-PFBA	216.1 > 171.8	4.97e3	4.95e3	0.1166	0.884	1.17	1.09	12.6	121.965	113.7
4	32	13C3-PFPeA	266. > 221.8	5.57e3	7.06e3	0.1166	0.727	2.15	2.05	9.86	116.350	108.5
5	33	13C3-PFBS	302. > 98.8	6.71e2	7.06e3	0.1166	0.083	2.44	2.34	1.19	123.107	114.8
6	34	13C2-PFHxA	315 > 269.8	2.18e3	7.06e3	0.1166	0.703	2.93	2.84	3.86	47.143	109.9
7	35	13C4-PFHpA	367.2 > 321.8	5.20e3	7.06e3	0.1166	0.656	3.56	3.46	9.21	120.390	112.3
8	36	18O2-PFHxS	403.0 > 102.6	6.38e2	1.57e3	0.1166	0.408	3.71	3.62	5.08	106.725	99.5
9	37	13C2-6:2 FTS	429.1 > 408.9	2.03e3	5.59e3	0.1166	0.243	4.03	3.93	4.53	159.852	149.1
10	38	13C2-PFOA	414.9 > 369.7	7.40e3	5.59e3	0.1166	1.076	4.05	3.99	16.6	132.138	123.2
11	39	13C5-PFNA	468.2 > 422.9	7.10e3	6.20e3	0.1166	0.914	4.55	4.44	14.3	134.360	125.3
12	40	13C8-PFOSA	506.1 > 77.7	1.15e3	7.99e3	0.1166	0.211	4.59	4.49	1.80	73.004	68.1
13	41	13C8-PFOS	507.0 > 79.9	1.89e3	1.53e3	0.1166	0.982	4.63	4.53	15.4	134.909	125.8
14	42	13C2-PFDA	515.1 > 469.9	6.80e3	7.67e3	0.1166	0.891	4.92	4.82	11.1	106.693	99.5
15	43	13C2-8:2 FTS	529.1 > 508.7	1.53e3	7.67e3	0.1166	0.198	4.89	4.79	2.49	107.785	100.5
16	44	d3-N-MeFOSAA	573.3 > 419	2.49e3	7.99e3	0.1166	0.361	5.08	4.97	3.90	92.775	86.5
17	45	d5-N-EtFOSAA	589.3 > 419	2.94e3	7.99e3	0.1166	0.394	5.24	5.14	4.60	100.142	93.4
18	46	13C2-PFUdA	565 > 519.8	6.55e3	7.99e3	0.1166	0.966	5.25	5.16	10.2	90.922	84.8
19	47	13C2-PFDoA	615.0 > 569.7	7.37e3	7.99e3	0.1166	0.989	5.55	5.45	11.5	99.961	93.2
20	49	13C2-PFTeDA	714.8 > 669.6	8.39e3	7.99e3	0.1166	0.927	6.02	5.93	13.1	121.469	113.3
21	54	13C4-PFBA	217. > 171.8	4.95e3	4.95e3	0.1166	1.000	1.17	1.09	12.5	107.223	100.0
22	55	13C5-PFHxA	318 > 272.9	7.06e3	7.06e3	0.1166	1.000	2.93	2.83	12.5	107.223	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.57e3	1.57e3	0.1166	1.000	3.71	3.62	12.5	107.223	100.0
24	57	13C8-PFOA	421.3 > 376	5.59e3	5.59e3	0.1166	1.000	4.05	3.99	12.5	107.223	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.20e3	6.20e3	0.1166	1.000	4.55	4.44	12.5	107.223	100.0
26	59	13C4-PFOS	503 > 79.9	1.53e3	1.53e3	0.1166	1.000	4.63	4.53	12.5	107.223	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.67e3	7.67e3	0.1166	1.000	4.92	4.82	12.5	107.223	100.0
28	61	13C7-PFUdA	570.1 > 524.8	7.99e3	7.99e3	0.1166	1.000	5.25	5.16	12.5	107.223	100.0
29	62	Total PFHxS	398.9 > 79.6	1.04e3	6.38e2	0.1166		3.71		20.4	75.502	
30	63	Total PFOA	413 > 368.7	5.50e3	7.40e3	0.1166		4.05		9.29	78.504	
31	64	Total PFOS	499 > 79.9	1.46e3	1.89e3	0.1166		4.63		9.65	79.122	
32	65	Total N-MeFOSAA	570.1 > 419	3.36e3	2.49e3	0.1166		5.08		16.9	94.301	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	2.59e3	2.94e3	0.1166		5.24		11.0	72.831	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

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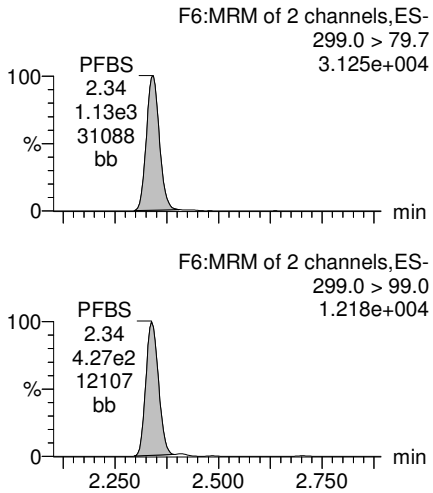

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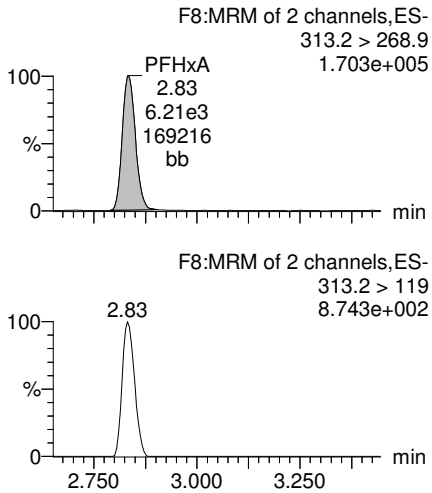

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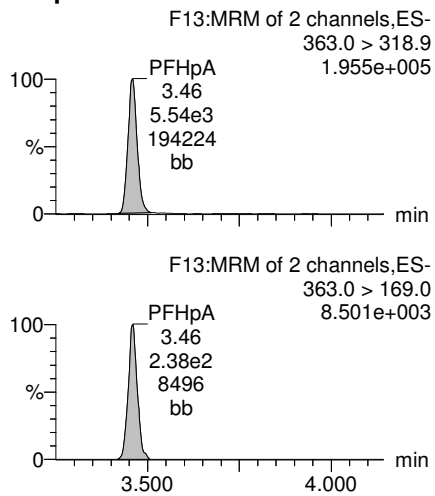
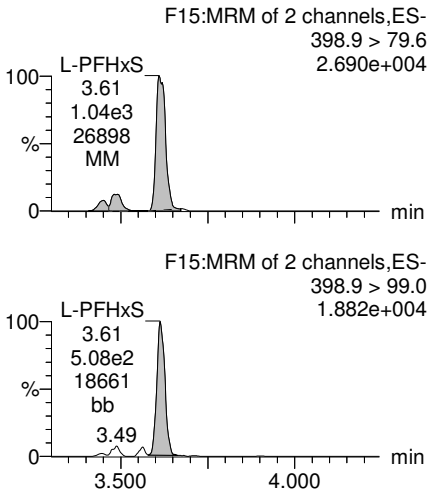
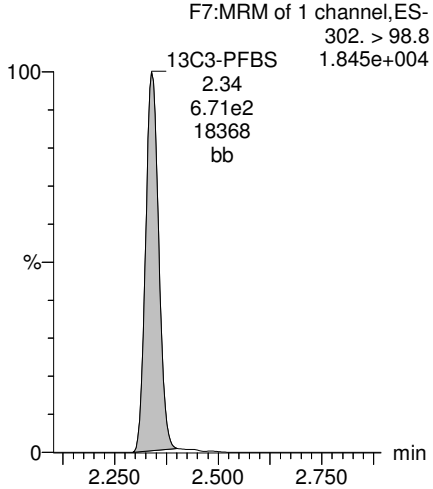


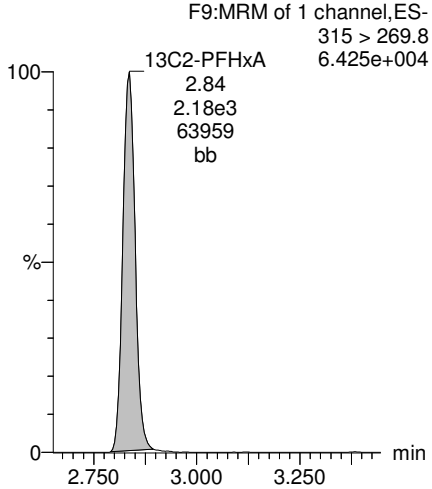
Total PFHxS



13C3-PFBS



13C2-PFHxA



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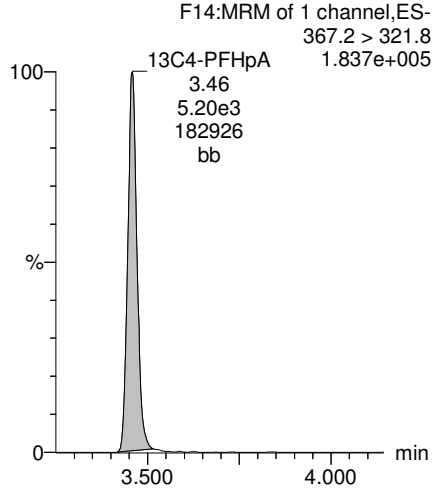
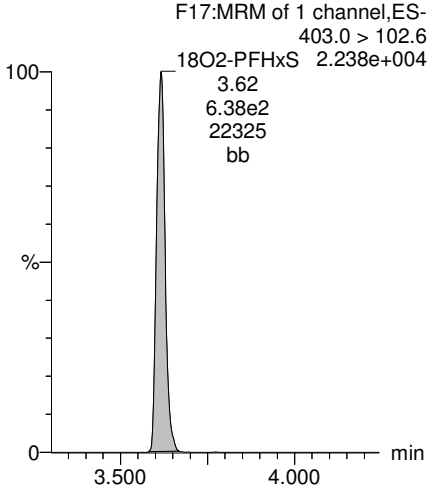


18O2-PFHxS



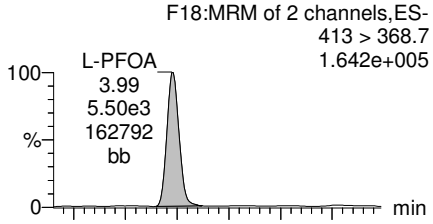
MJT11/27/2017

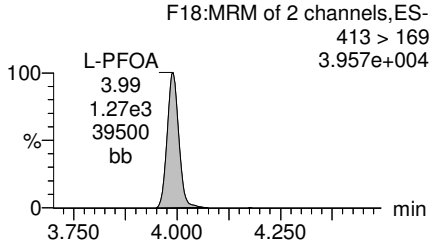
Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

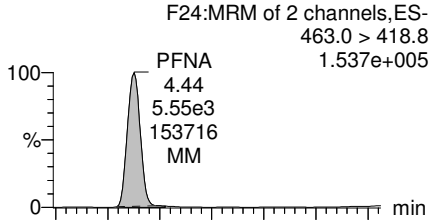
Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

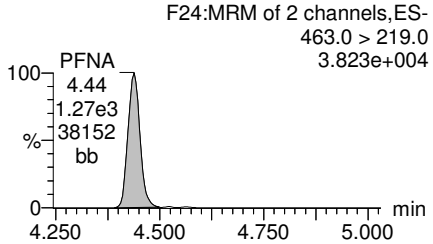
Total PFOA



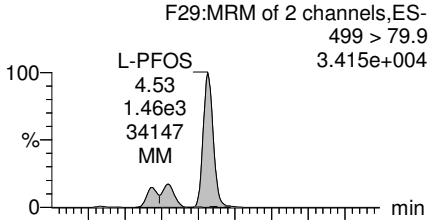


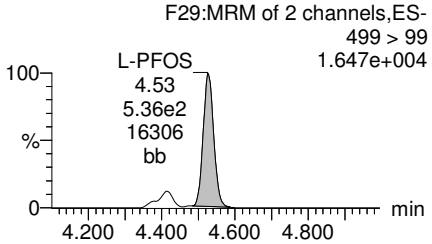
PFNA



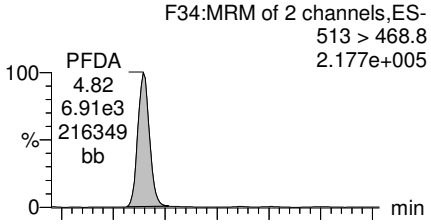


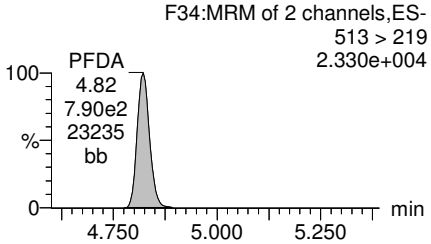
Total PFOS



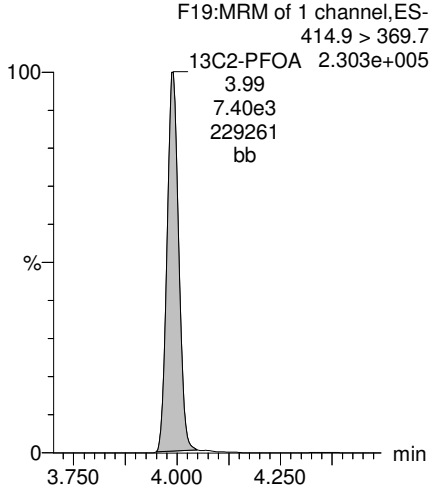


PFDA

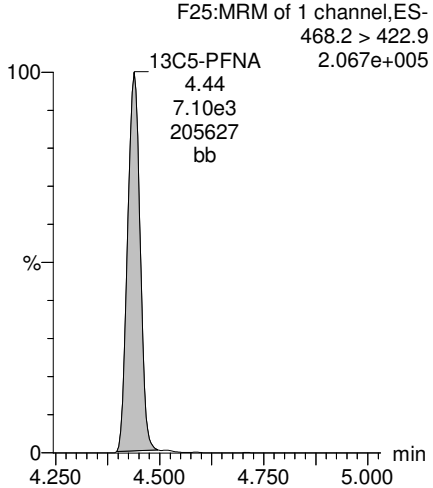




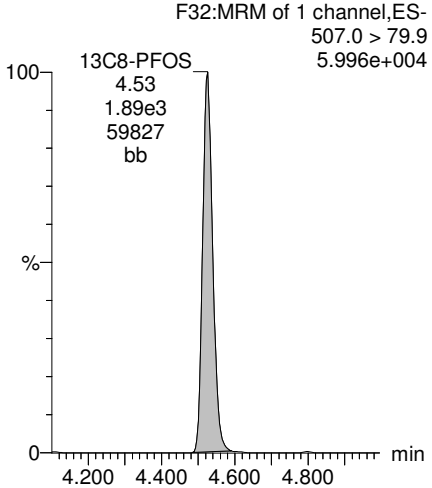
13C2-PFOA



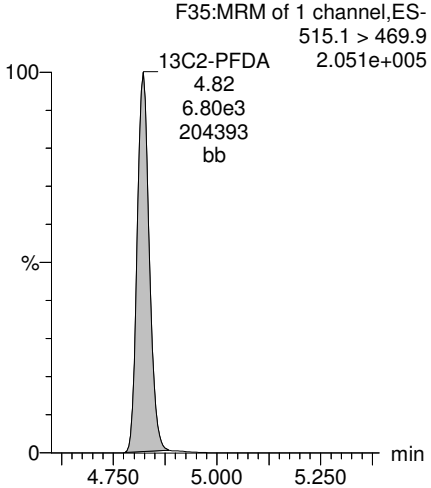
13C5-PFNA



13C8-PFOS



13C2-PFDA



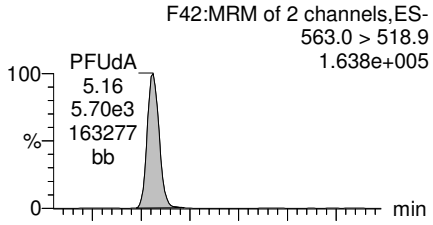
MJT11/27/2017

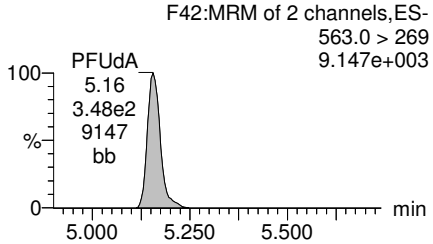
Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

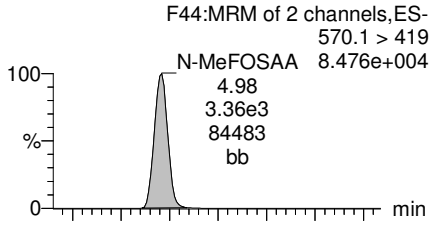
Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

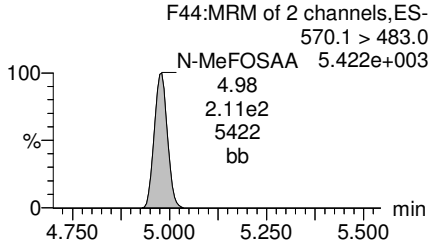
PFUdA



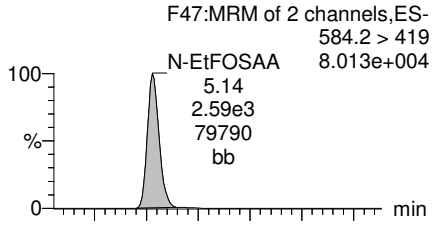


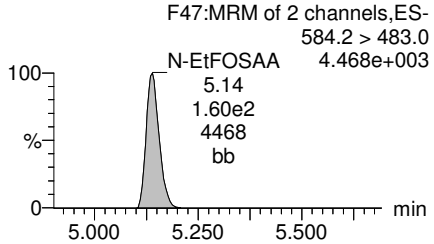
N-MeFOSAA



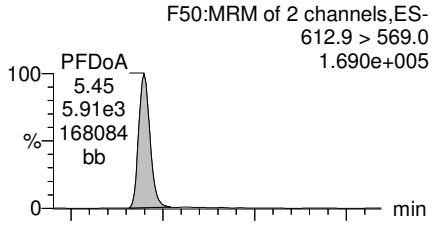


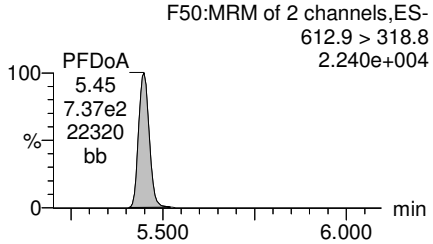
N-EtFOSAA



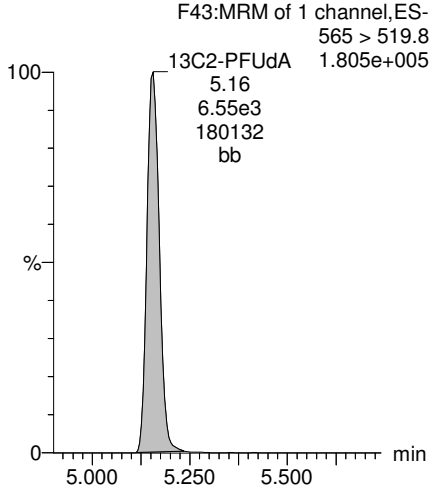


PFDoA

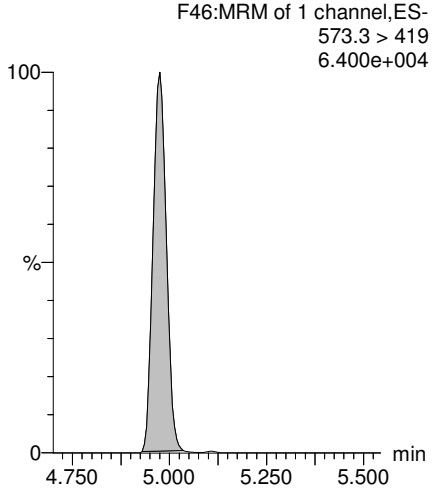




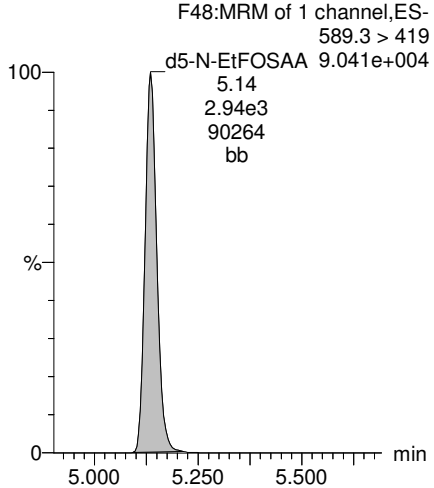
13C2-PFUdA



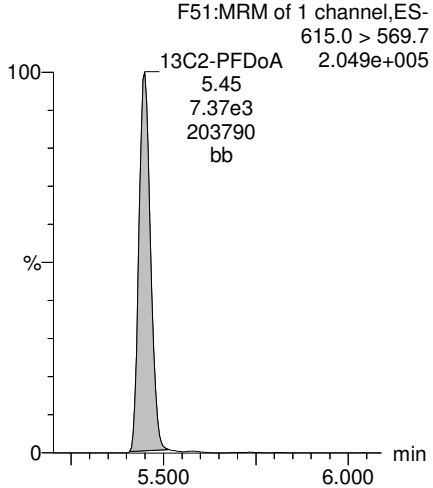
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



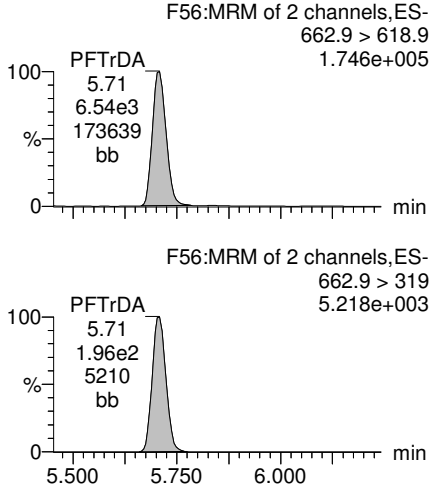
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

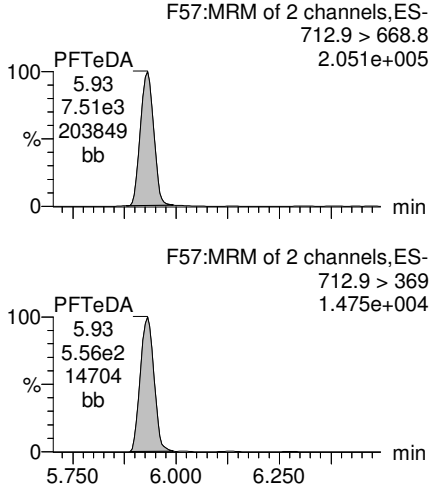
Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

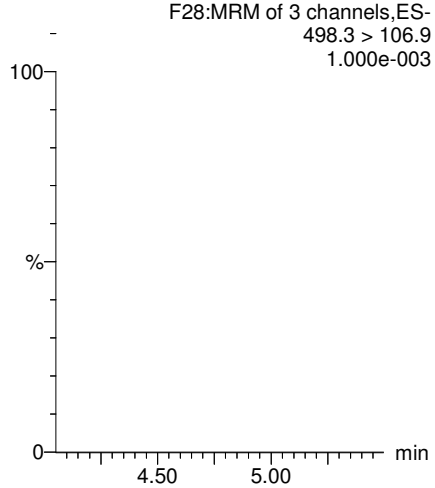
PFTrDA



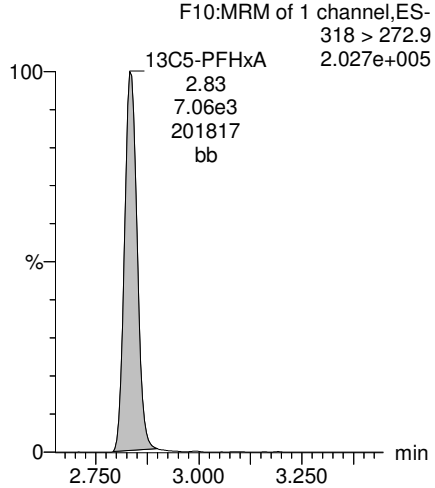
PFTeDA



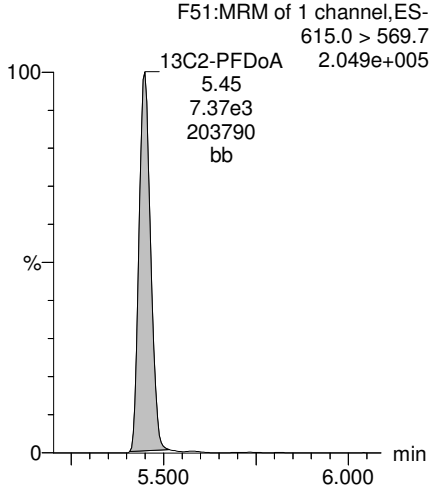
TCDA



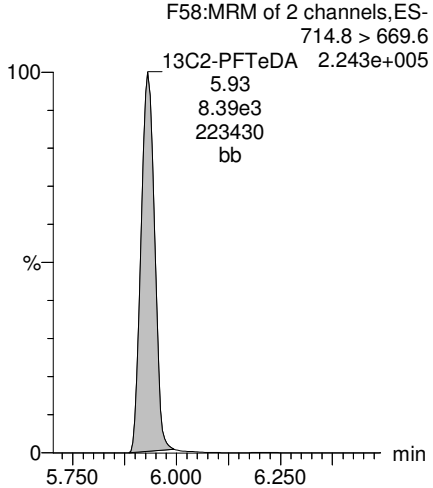
13C5-PFHxA



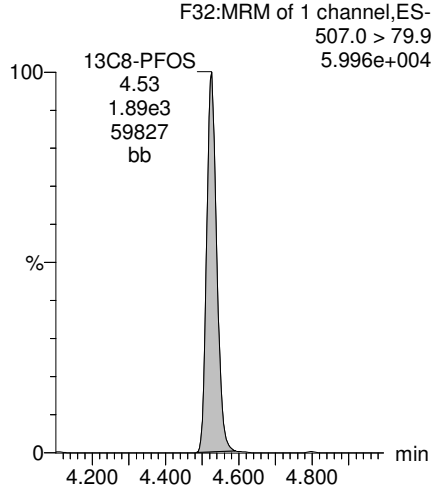
13C2-PFDoA



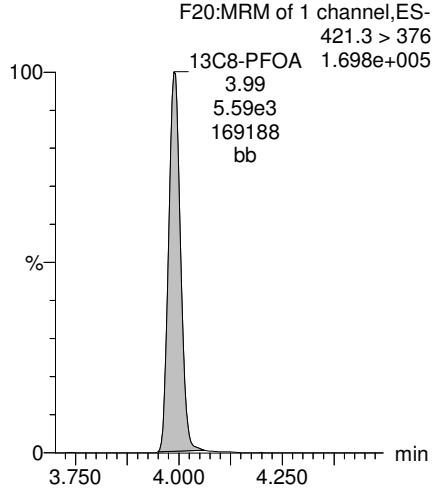
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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Vista Analytical Laboratory

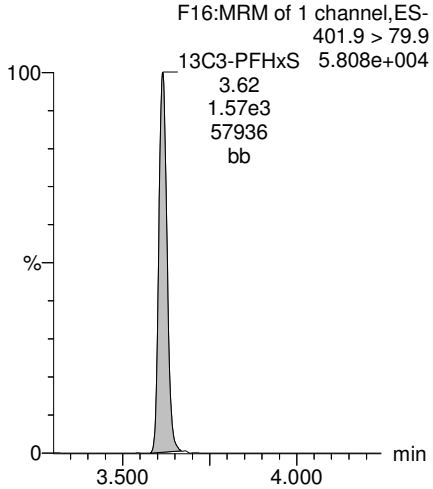
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-49.qld

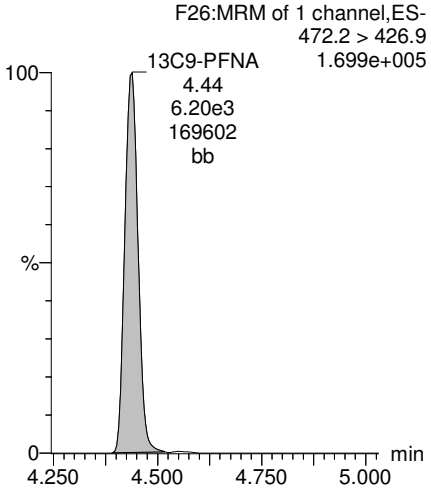
Last Altered: Monday, November 27, 2017 09:30:42 Pacific Standard Time
Printed: Monday, November 27, 2017 09:31:34 Pacific Standard Time

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

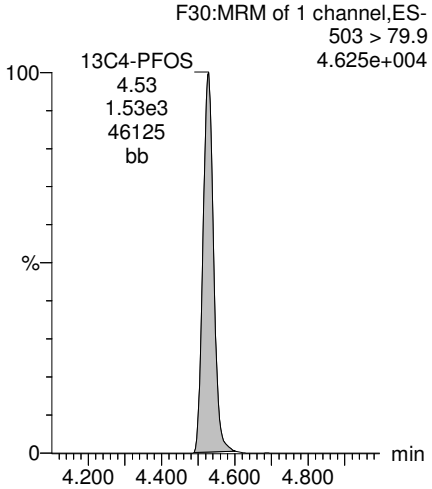
13C3-PFHxS



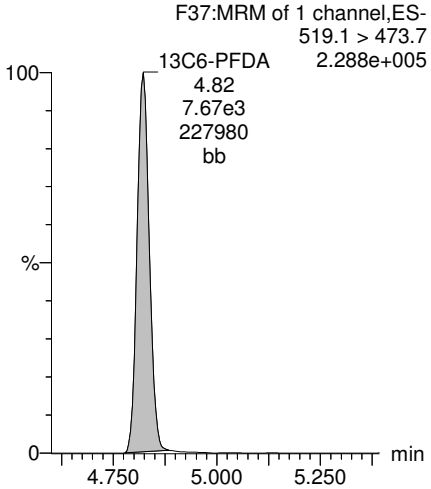
13C9-PFNA



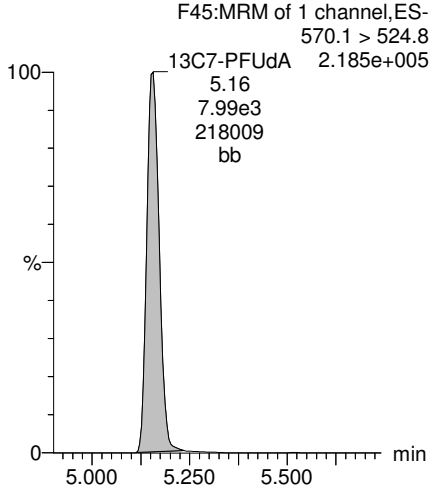
13C4-PFOS



13C6-PFDA



13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-50.qld

Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
Printed: Monday, November 27, 2017 09:38:34 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.21e3	7.34e2	0.11996		2.44	2.34	20.5	70.314	
2	4	PFHxA	313.2 > 268.9	6.18e3	2.10e3	0.11996		2.93	2.84	14.7	74.629	
3	5	PFHpA	363.0 > 318.9	5.17e3	4.96e3	0.11996		3.56	3.46	13.0	71.952	
4	6	L-PFHxS	398.9 > 79.6	1.05e3	5.91e2	0.11996		3.71	3.62	22.3	80.185	
5	9	L-PFOA	413 > 368.7	5.07e3	6.24e3	0.11996		4.05	3.99	10.2	83.703	
6	12	PFNA	463.0 > 418.8	5.27e3	5.60e3	0.11996		4.55	4.44	11.8	67.308	
7	14	L-PFOS	499 > 79.9	1.44e3	1.63e3	0.11996		4.63	4.53	11.0	87.713	
8	16	PFDA	513 > 468.8	6.62e3	6.55e3	0.11996		4.92	4.83	12.6	70.629	
9	18	N-MeFOSAA	570.1 > 419	2.89e3	2.21e3	0.11996		5.08	4.98	16.3	88.619	
10	19	N-EtFOSAA	584.2 > 419	2.47e3	3.02e3	0.11996		5.24	5.14	10.2	65.787	
11	20	PFUdA	563.0 > 518.9	5.74e3	6.52e3	0.11996		5.25	5.16	11.0	77.387	
12	22	PFDoA	612.9 > 569.0	5.53e3	6.34e3	0.11996		5.55	5.45	10.9	68.912	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-50.qld

Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
Printed: Monday, November 27, 2017 09:38:51 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	8.08e3	6.34e3	0.11996		5.80	5.71	15.9	106.005	
2	25	PFTeDA	712.9 > 668.8	7.11e3	7.79e3	0.11996		6.02	5.93	11.4	74.489	
3	31	13C3-PFBA	216.1 > 171.8	4.61e3	4.74e3	0.11996	0.884	1.17	1.09	12.2	114.802	110.2
4	32	13C3-PFPeA	266. > 221.8	5.17e3	6.41e3	0.11996	0.727	2.15	2.05	10.1	115.499	110.8
5	33	13C3-PFBS	302. > 98.8	7.34e2	6.41e3	0.11996	0.083	2.44	2.34	1.43	144.006	138.2
6	34	13C2-PFHxA	315 > 269.8	2.10e3	6.41e3	0.11996	0.703	2.93	2.84	4.09	48.524	116.4
7	35	13C4-PFHpA	367.2 > 321.8	4.96e3	6.41e3	0.11996	0.656	3.56	3.46	9.67	122.848	117.9
8	36	18O2-PFHxS	403.0 > 102.6	5.91e2	1.37e3	0.11996	0.408	3.71	3.62	5.39	110.157	105.7
9	37	13C2-6:2 FTS	429.1 > 408.9	2.22e3	5.52e3	0.11996	0.243	4.03	3.93	5.03	172.224	165.3
10	38	13C2-PFOA	414.9 > 369.7	6.24e3	5.52e3	0.11996	1.076	4.05	3.99	14.1	109.443	105.0
11	39	13C5-PFNA	468.2 > 422.9	5.60e3	6.88e3	0.11996	0.914	4.55	4.44	10.2	92.705	89.0
12	40	13C8-PFOSA	506.1 > 77.7	1.01e3	7.92e3	0.11996	0.211	4.59	4.50	1.59	62.660	60.1
13	41	13C8-PFOS	507.0 > 79.9	1.63e3	1.62e3	0.11996	0.982	4.63	4.53	12.6	107.200	102.9
14	42	13C2-PFDA	515.1 > 469.9	6.55e3	7.66e3	0.11996	0.891	4.92	4.83	10.7	100.002	96.0
15	43	13C2-8:2 FTS	529.1 > 508.7	1.58e3	7.66e3	0.11996	0.198	4.89	4.79	2.57	108.195	103.8
16	44	d3-N-MeFOSAA	573.3 > 419	2.21e3	7.92e3	0.11996	0.361	5.08	4.98	3.49	80.708	77.5
17	45	d5-N-EtFOSAA	589.3 > 419	3.02e3	7.92e3	0.11996	0.394	5.24	5.14	4.77	100.888	96.8
18	46	13C2-PFUdA	565 > 519.8	6.52e3	7.92e3	0.11996	0.966	5.25	5.16	10.3	88.769	85.2
19	47	13C2-PFDoA	615.0 > 569.7	6.34e3	7.92e3	0.11996	0.989	5.55	5.45	10.0	84.271	80.9
20	49	13C2-PFTeDA	714.8 > 669.6	7.79e3	7.92e3	0.11996	0.927	6.02	5.93	12.3	110.568	106.1
21	54	13C4-PFBA	217. > 171.8	4.74e3	4.74e3	0.11996	1.000	1.17	1.09	12.5	104.201	100.0
22	55	13C5-PFHxA	318 > 272.9	6.41e3	6.41e3	0.11996	1.000	2.93	2.84	12.5	104.201	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.37e3	1.37e3	0.11996	1.000	3.71	3.62	12.5	104.201	100.0
24	57	13C8-PFOA	421.3 > 376	5.52e3	5.52e3	0.11996	1.000	4.05	3.99	12.5	104.201	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.88e3	6.88e3	0.11996	1.000	4.55	4.44	12.5	104.201	100.0
26	59	13C4-PFOS	503 > 79.9	1.62e3	1.62e3	0.11996	1.000	4.63	4.53	12.5	104.201	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.66e3	7.66e3	0.11996	1.000	4.92	4.83	12.5	104.201	100.0
28	61	13C7-PFUdA	570.1 > 524.8	7.92e3	7.92e3	0.11996	1.000	5.25	5.16	12.5	104.201	100.0
29	62	Total PFHxS	398.9 > 79.6	1.05e3	5.91e2	0.11996		3.71		22.3	80.185	
30	63	Total PFOA	413 > 368.7	5.07e3	6.24e3	0.11996		4.05		10.2	83.703	
31	64	Total PFOS	499 > 79.9	1.44e3	1.63e3	0.11996		4.63		11.0	87.713	
32	65	Total N-MeFOSAA	570.1 > 419	2.89e3	2.21e3	0.11996		5.08		16.3	88.619	

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-50.qld

Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
Printed: Monday, November 27, 2017 09:38:51 Pacific Standard Time

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	2.47e3	3.02e3	0.11996		5.24		10.2	65.787	

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-50.qld

Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
Printed: Monday, November 27, 2017 09:38:51 Pacific Standard Time

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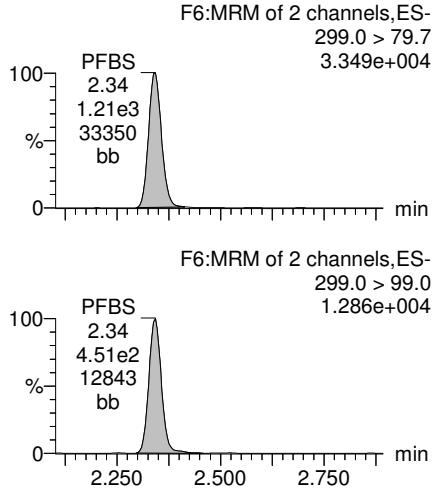
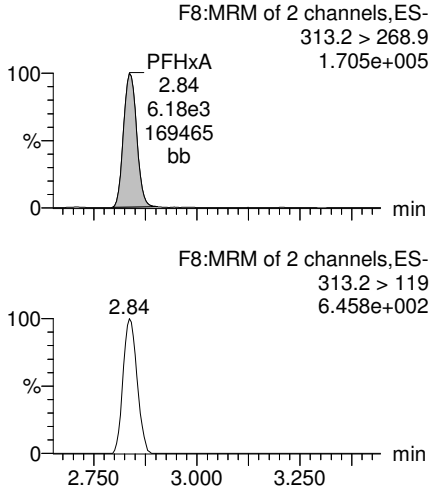
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

PFBS



PFHxA



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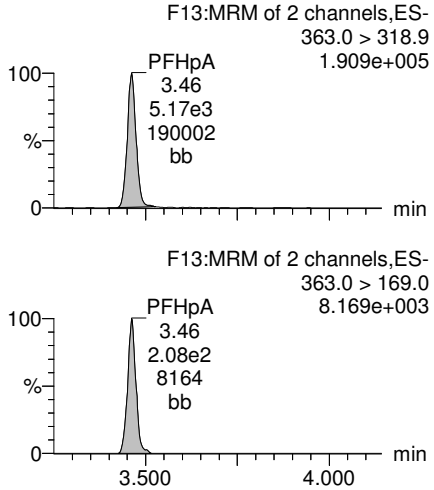
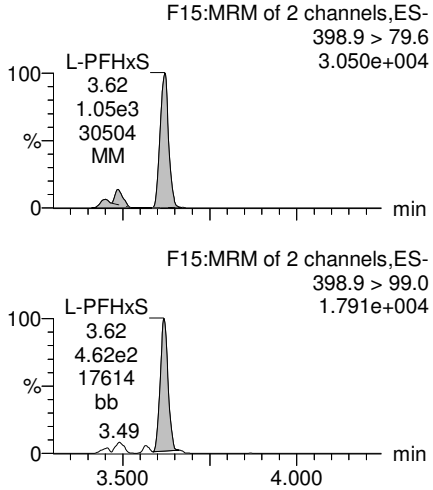
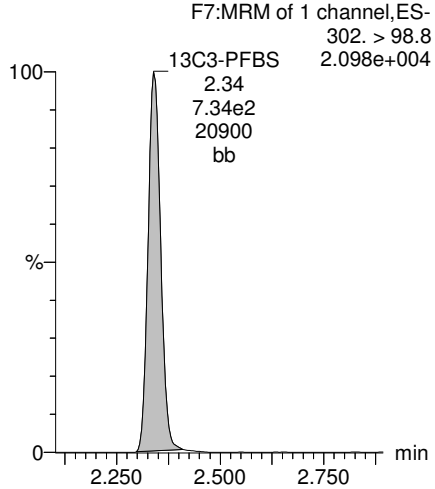


Total PFHxS



13C3-PFBS



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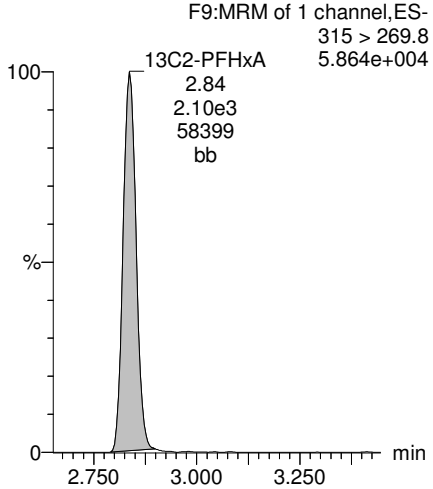

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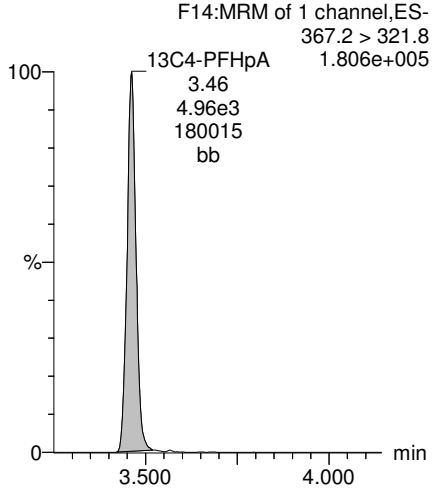

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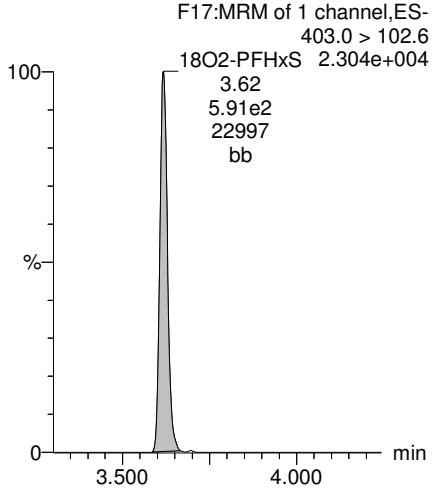

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-50.qld

Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
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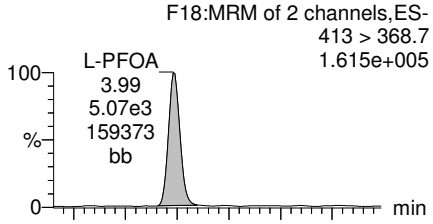
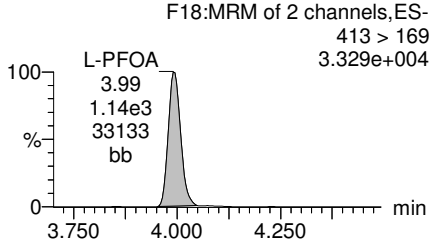
Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

Total PFOA





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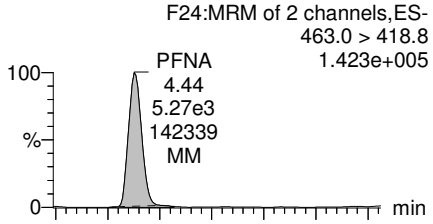
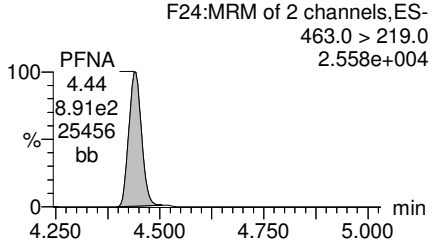
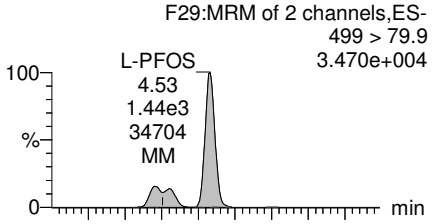
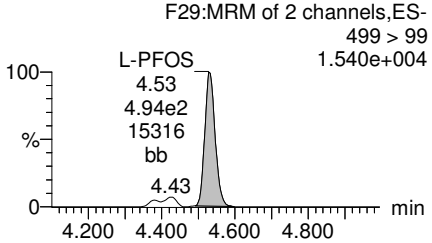




Total PFOS





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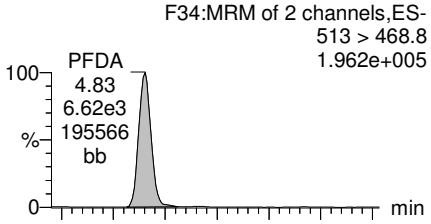
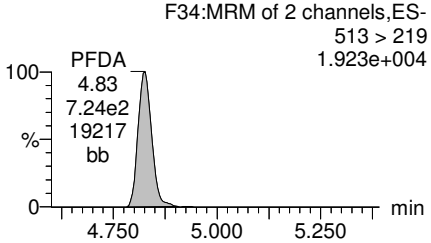
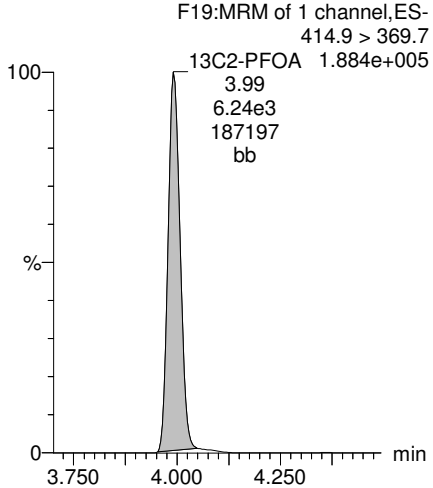




13C2-PFOA



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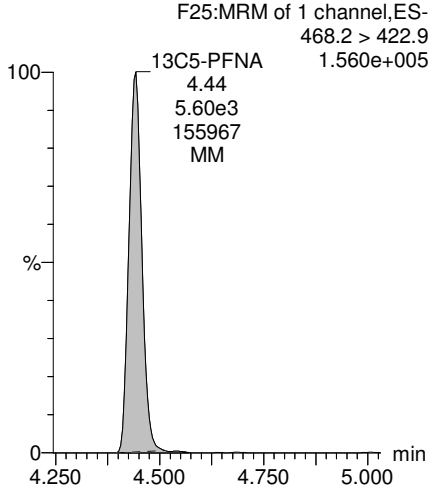

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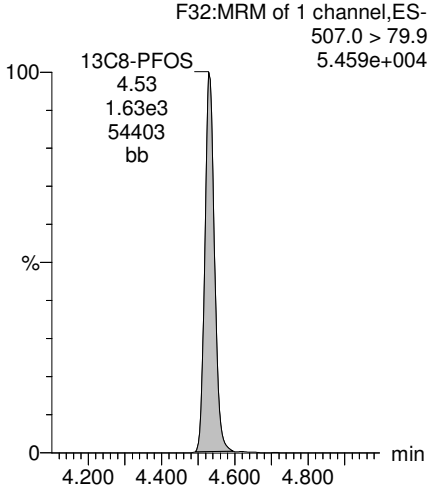

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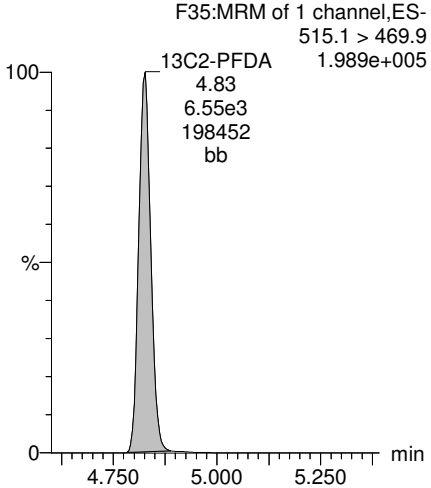

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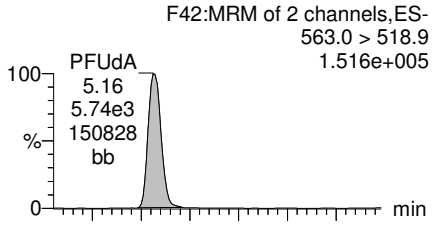
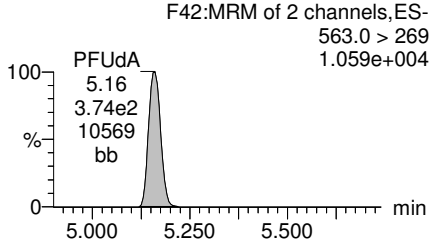
Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
Printed: Monday, November 27, 2017 09:38:51 Pacific Standard Time

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

PFUdA





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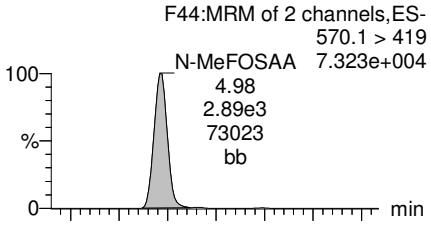

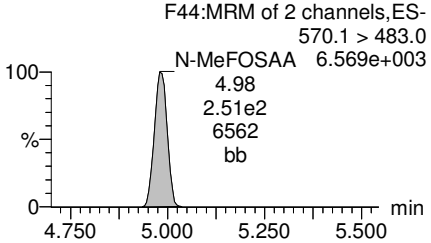

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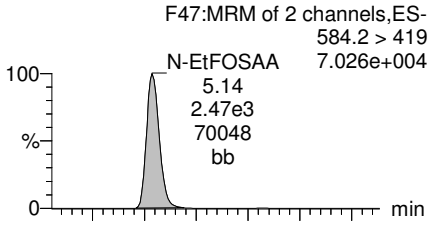

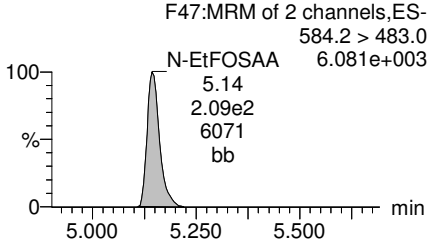

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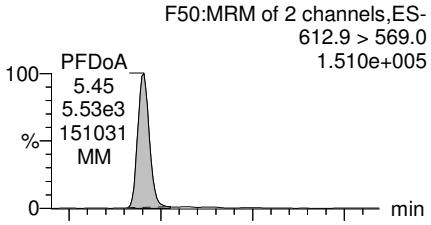
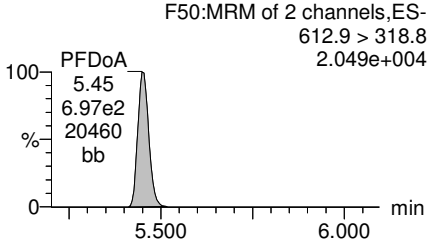
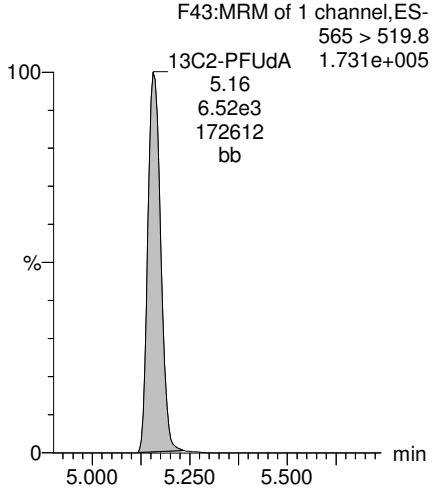




13C2-PFUdA



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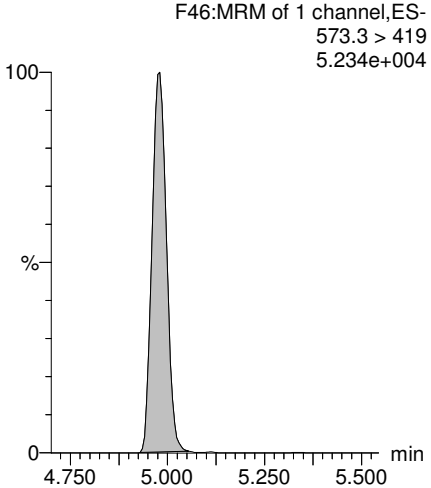

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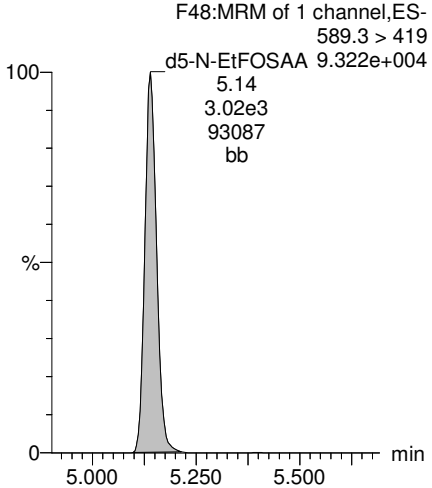

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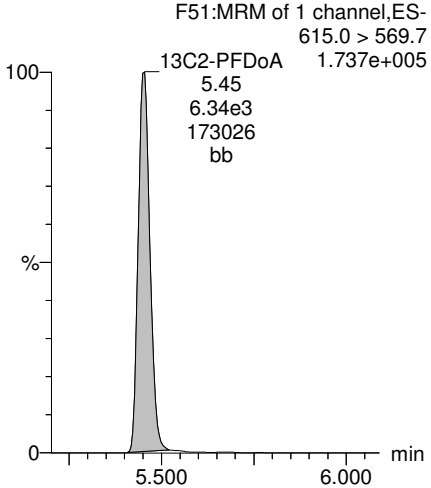

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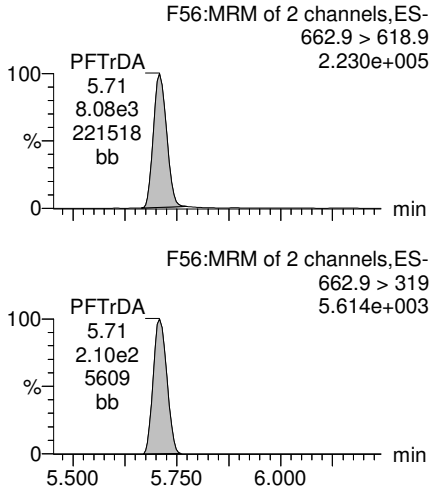

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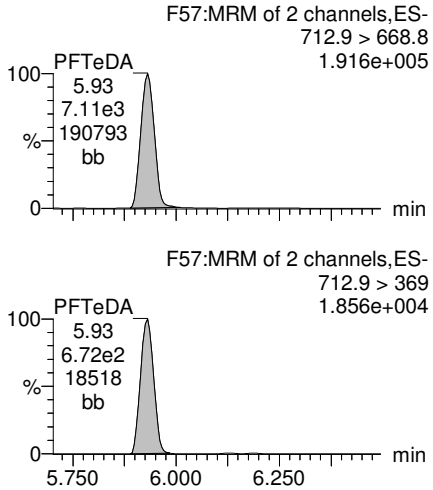

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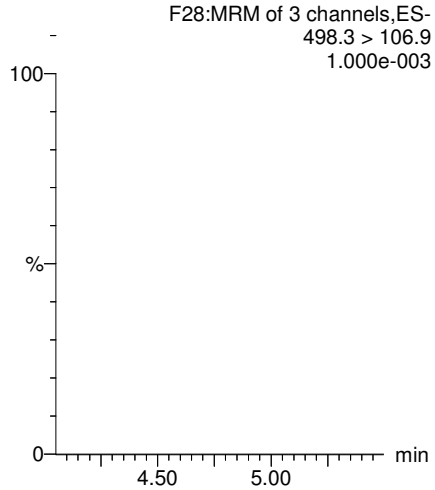

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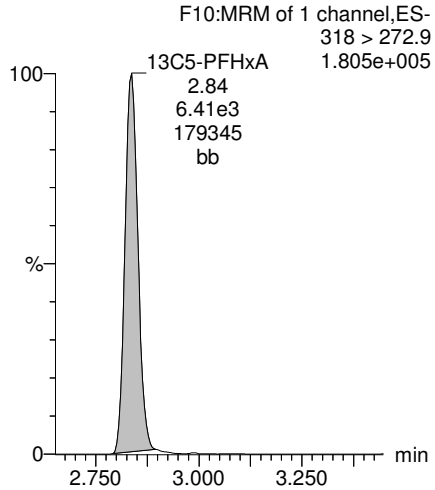

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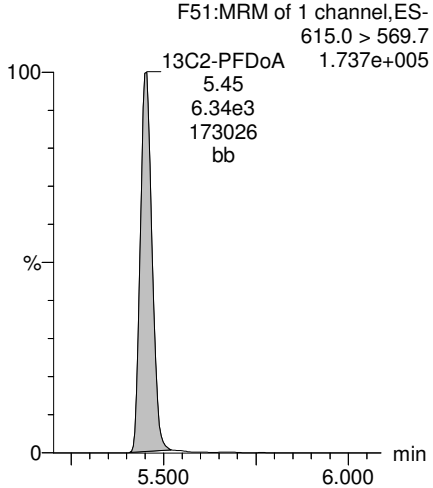

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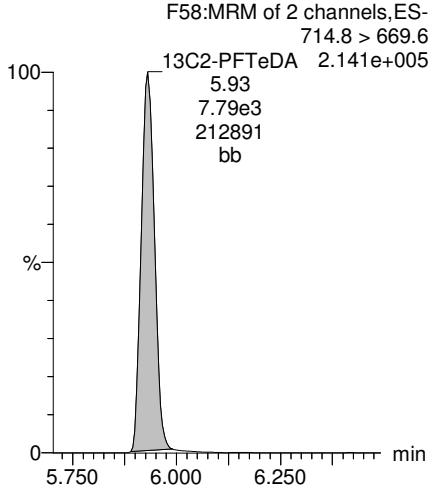

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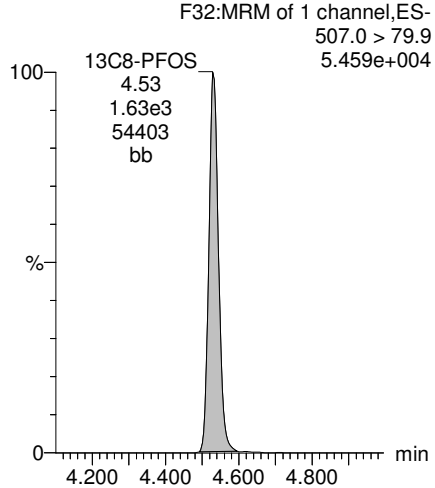

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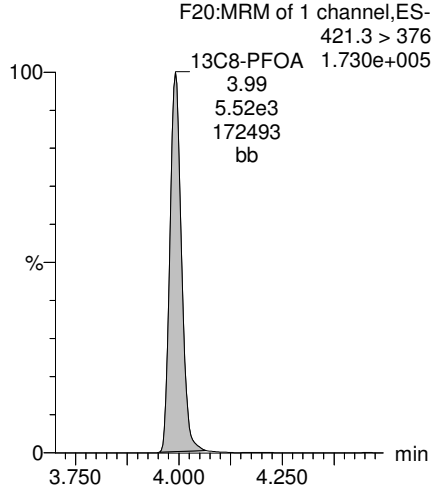

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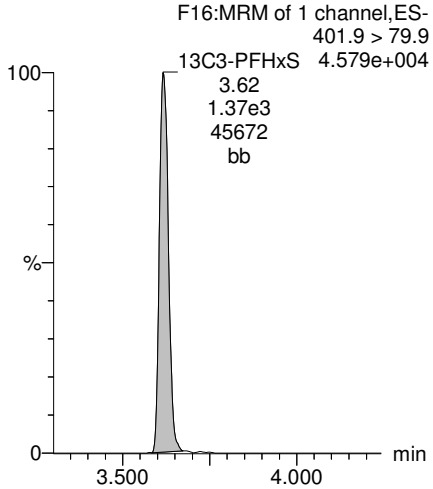
Dataset: U:\Q4.PRO\results\171101M2\171101M2-50.qld

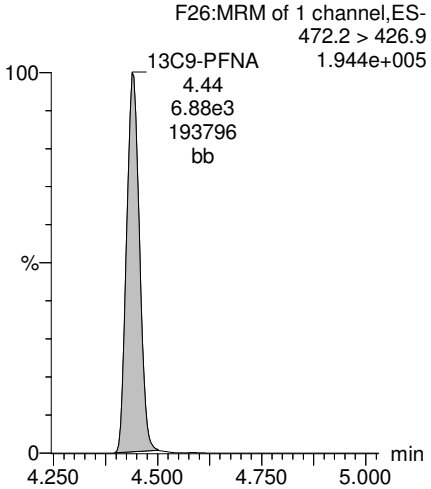
Last Altered: Monday, November 27, 2017 09:34:33 Pacific Standard Time
Printed: Monday, November 27, 2017 09:38:51 Pacific Standard Time

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

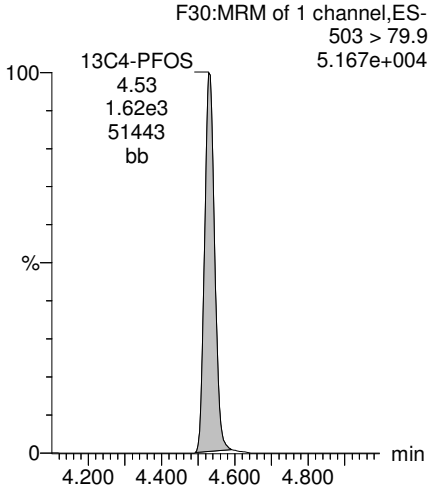
13C3-PFHxS



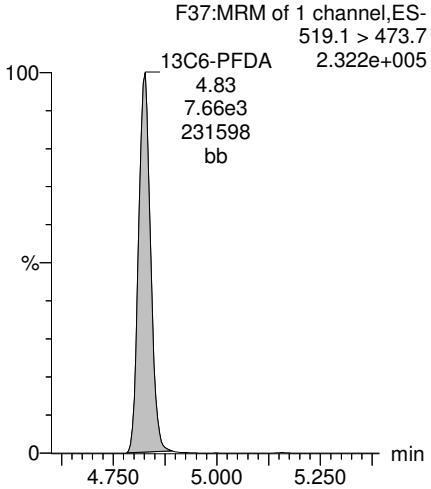
13C9-PFNA



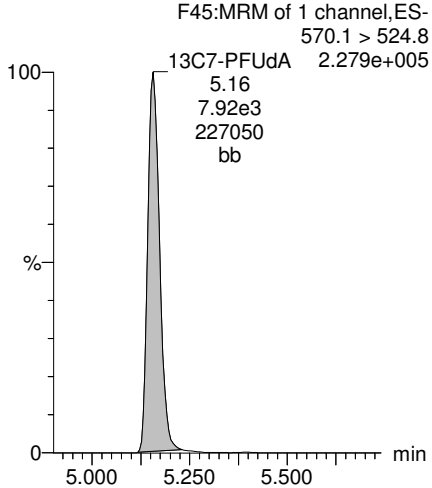
13C4-PFOS



13C6-PFDA



13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:18 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.87e1	8.07e2	0.11633		2.44	2.34	0.290	0.709	
2	4	PFHxA	313.2 > 268.9		2.43e3	0.11633		2.93				
3	5	PFHpA	363.0 > 318.9	7.50e1	5.65e3	0.11633		3.56	3.46	0.166	0.405	
4	6	L-PFHxS	398.9 > 79.6	1.35e2	6.63e2	0.11633		3.71	3.62	2.55	9.132	
5	9	L-PFOA	413 > 368.7	3.13e2	7.65e3	0.11633		4.05	3.99	0.511	1.840	
6	12	PFNA	463.0 > 418.8		6.10e3	0.11633		4.55				
7	14	L-PFOS	499 > 79.9	1.43e3	1.78e3	0.11633		4.63	4.53	10.1	82.948	
8	16	PFDA	513 > 468.8		6.82e3	0.11633		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.51e3	0.11633		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.62e3	0.11633		5.24				
11	20	PFUdA	563.0 > 518.9		6.81e3	0.11633		5.25				
12	22	PFDoA	612.9 > 569.0		8.22e3	0.11633		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:33 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		8.22e3	0.11633		5.80				
2	25	PFTeDA	712.9 > 668.8		6.19e3	0.11633		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.27e3	5.57e3	0.11633	0.884	1.17	1.09	11.8	114.986	107.0
4	32	13C3-PFPeA	266. > 221.8	6.02e3	6.91e3	0.11633	0.727	2.15	2.05	10.9	128.777	119.8
5	33	13C3-PFBS	302. > 98.8	8.07e2	6.91e3	0.11633	0.083	2.44	2.34	1.46	151.395	140.9
6	34	13C2-PFHxA	315 > 269.8	2.43e3	6.91e3	0.11633	0.703	2.93	2.84	4.39	53.703	124.9
7	35	13C4-PFHpA	367.2 > 321.8	5.65e3	6.91e3	0.11633	0.656	3.56	3.46	10.2	133.882	124.6
8	36	18O2-PFHxS	403.0 > 102.6	6.63e2	1.46e3	0.11633	0.408	3.71	3.61	5.69	119.882	111.6
9	37	13C2-6:2 FTS	429.1 > 408.9	1.80e3	6.73e3	0.11633	0.243	4.03	3.93	3.35	118.425	110.2
10	38	13C2-PFOA	414.9 > 369.7	7.65e3	6.73e3	0.11633	1.076	4.05	3.99	14.2	113.545	105.7
11	39	13C5-PFNA	468.2 > 422.9	6.10e3	6.91e3	0.11633	0.914	4.55	4.44	11.0	103.709	96.5
12	40	13C8-PFOSA	506.1 > 77.7	1.04e3	8.55e3	0.11633	0.211	4.59	4.49	1.52	62.052	57.7
13	41	13C8-PFOS	507.0 > 79.9	1.78e3	1.65e3	0.11633	0.982	4.63	4.53	13.5	117.735	109.6
14	42	13C2-PFDA	515.1 > 469.9	6.82e3	9.25e3	0.11633	0.891	4.92	4.82	9.21	88.863	82.7
15	43	13C2-8:2 FTS	529.1 > 508.7	1.40e3	9.25e3	0.11633	0.198	4.89	4.79	1.89	81.969	76.3
16	44	d3-N-MeFOSAA	573.3 > 419	2.51e3	8.55e3	0.11633	0.361	5.08	4.97	3.67	87.576	81.5
17	45	d5-N-EtFOSAA	589.3 > 419	3.62e3	8.55e3	0.11633	0.394	5.24	5.14	5.29	115.379	107.4
18	46	13C2-PFUdA	565 > 519.8	6.81e3	8.55e3	0.11633	0.966	5.25	5.16	9.95	88.485	82.3
19	47	13C2-PFDoA	615.0 > 569.7	8.22e3	8.55e3	0.11633	0.989	5.55	5.45	12.0	104.376	97.1
20	49	13C2-PFTeDA	714.8 > 669.6	6.19e3	8.55e3	0.11633	0.927	6.02	5.93	9.05	83.946	78.1
21	54	13C4-PFBA	217. > 171.8	5.57e3	5.57e3	0.11633	1.000	1.17	1.10	12.5	107.453	100.0
22	55	13C5-PFHxA	318 > 272.9	6.91e3	6.91e3	0.11633	1.000	2.93	2.84	12.5	107.453	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.46e3	1.46e3	0.11633	1.000	3.71	3.61	12.5	107.453	100.0
24	57	13C8-PFOA	421.3 > 376	6.73e3	6.73e3	0.11633	1.000	4.05	3.99	12.5	107.453	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.91e3	6.91e3	0.11633	1.000	4.55	4.44	12.5	107.453	100.0
26	59	13C4-PFOS	503 > 79.9	1.65e3	1.65e3	0.11633	1.000	4.63	4.53	12.5	107.453	100.0
27	60	13C6-PFDA	519.1 > 473.7	9.25e3	9.25e3	0.11633	1.000	4.92	4.82	12.5	107.453	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.55e3	8.55e3	0.11633	1.000	5.25	5.15	12.5	107.453	100.0
29	62	Total PFHxS	398.9 > 79.6	1.35e2	6.63e2	0.11633		3.71		2.55	9.132	
30	63	Total PFOA	413 > 368.7	3.13e2	7.65e3	0.11633		4.05		0.511	1.840	
31	64	Total PFOS	499 > 79.9	1.43e3	1.78e3	0.11633		4.63		10.1	82.948	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.51e3	0.11633		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:33 Pacific Standard Time

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.62e3	0.11633		5.24		0.000		

MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:33 Pacific Standard Time

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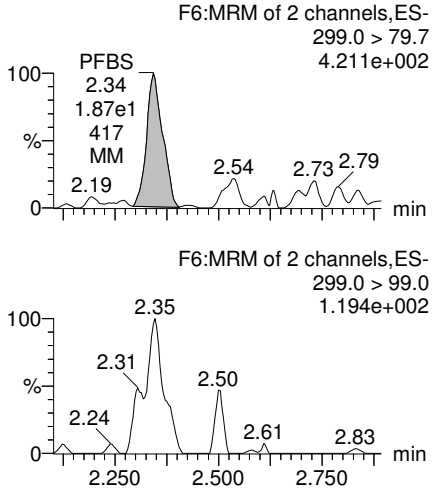
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

PFBS



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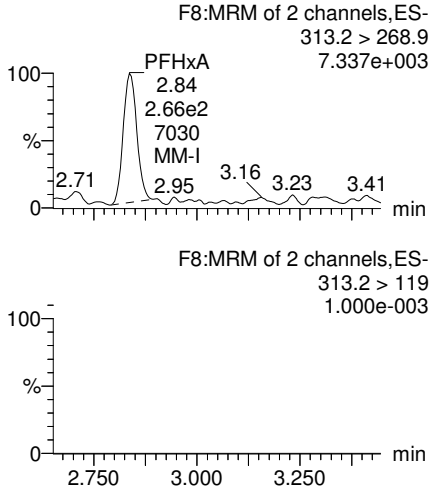

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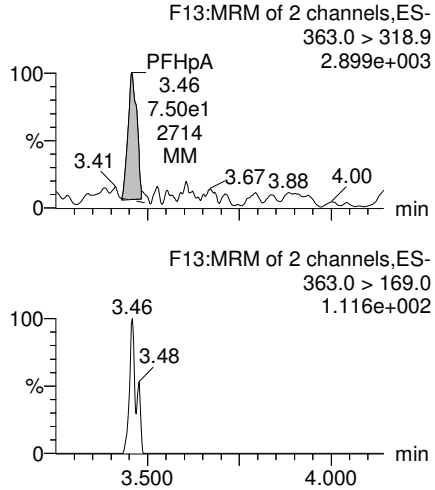
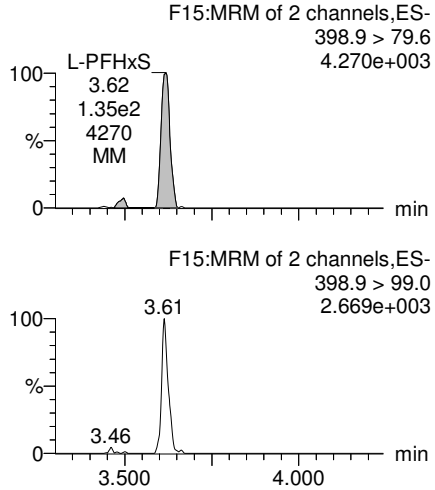
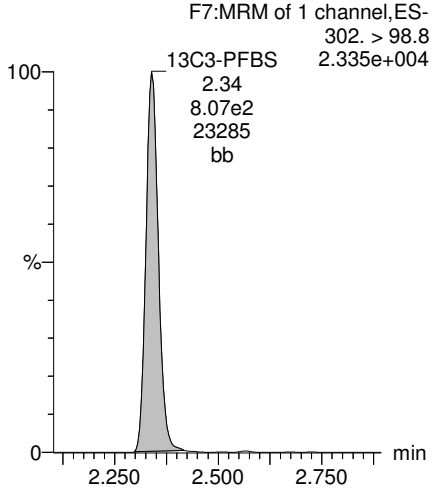


Total PFHxS



13C3-PFBS



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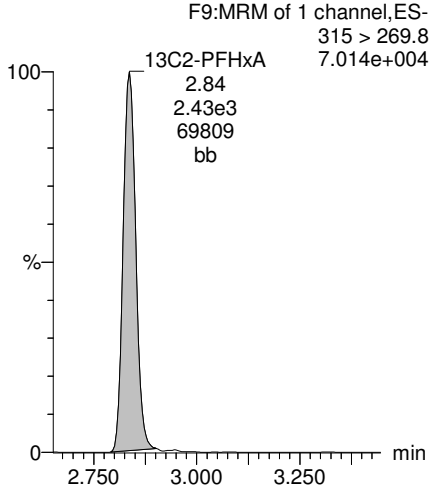

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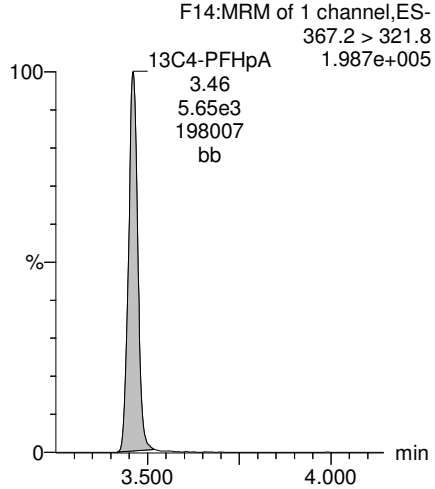

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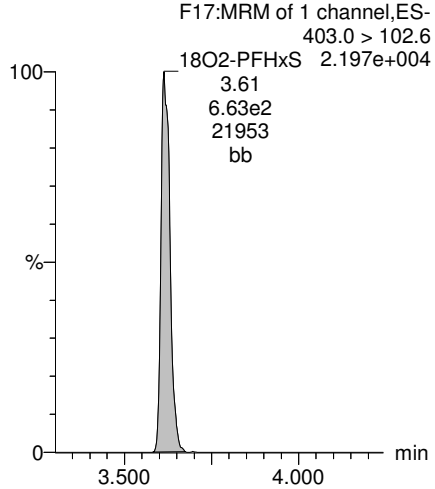

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
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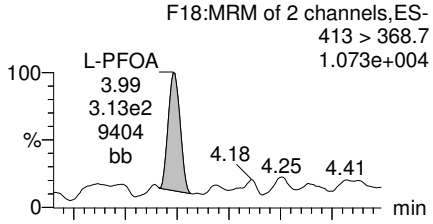
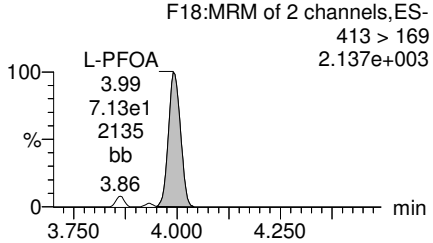
Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

Total PFOA





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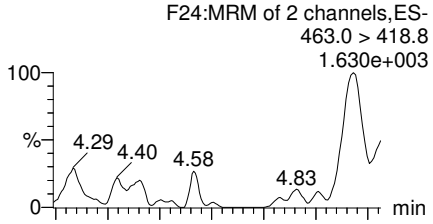

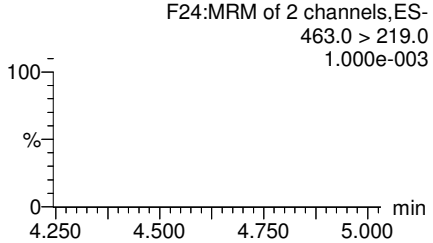

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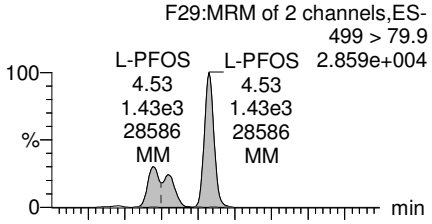

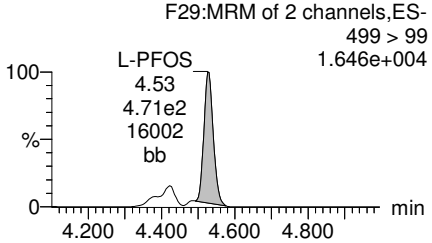

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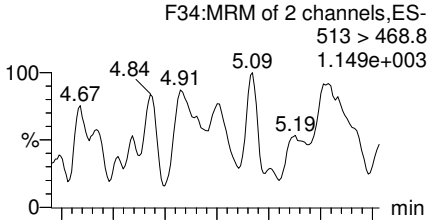
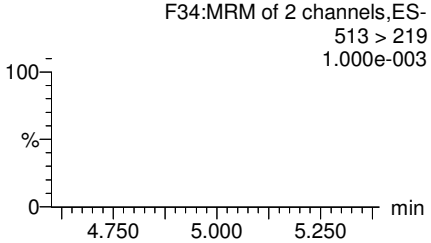
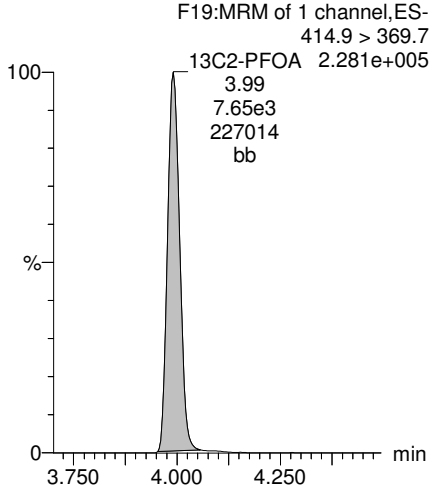
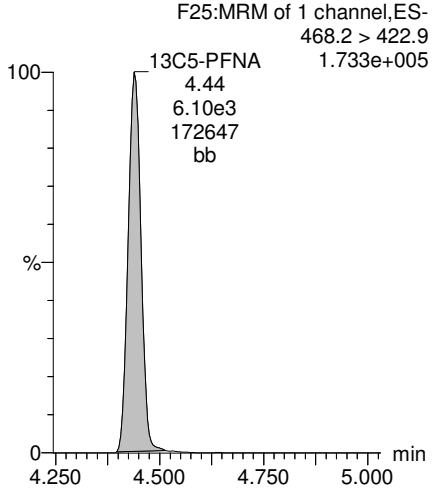




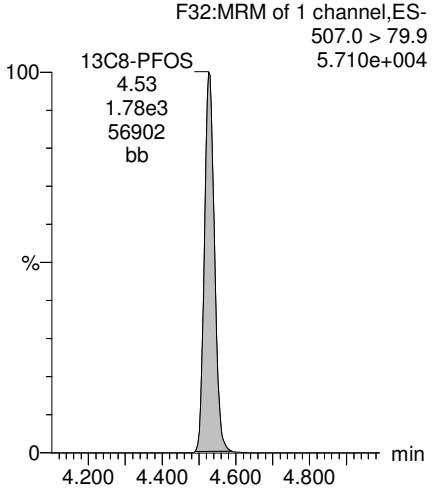
13C2-PFOA



13C5-PFNA



13C8-PFOS



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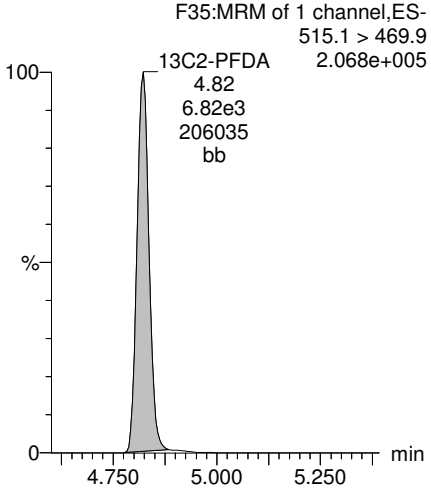

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:33 Pacific Standard Time

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

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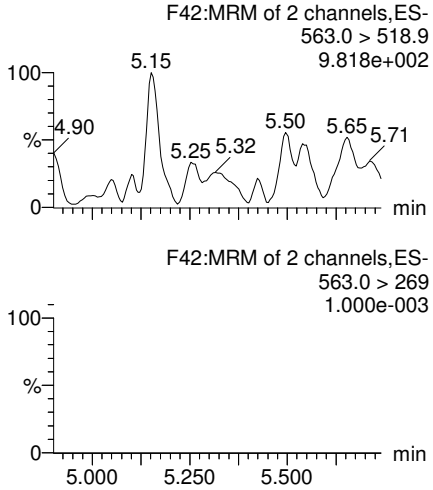

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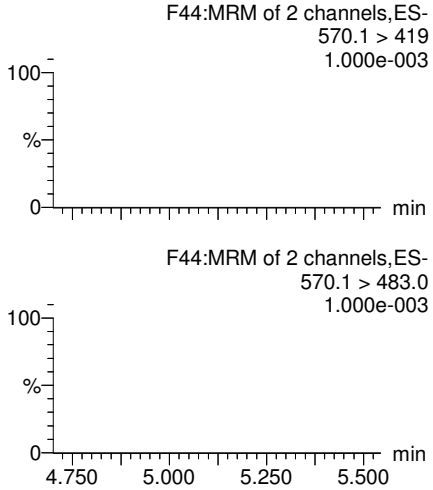

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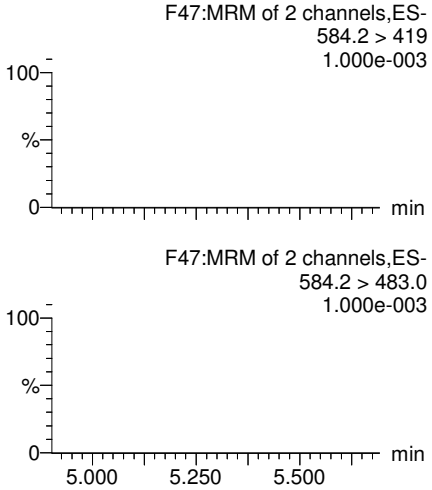
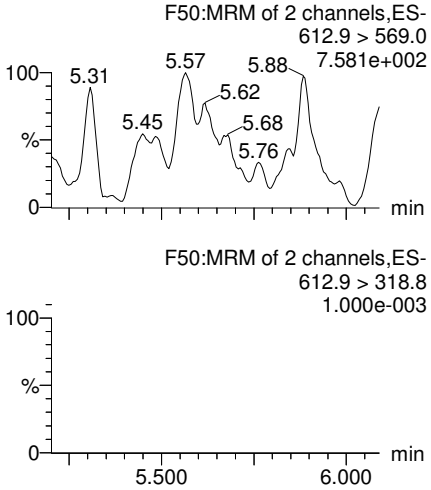
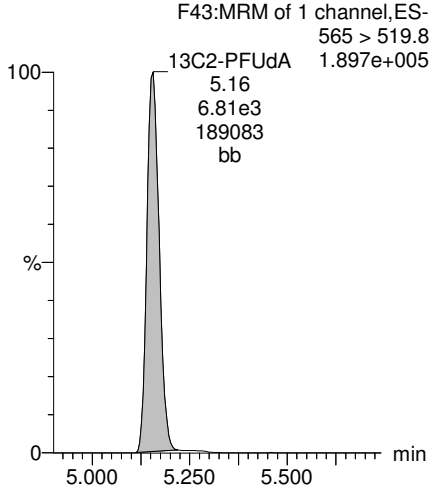


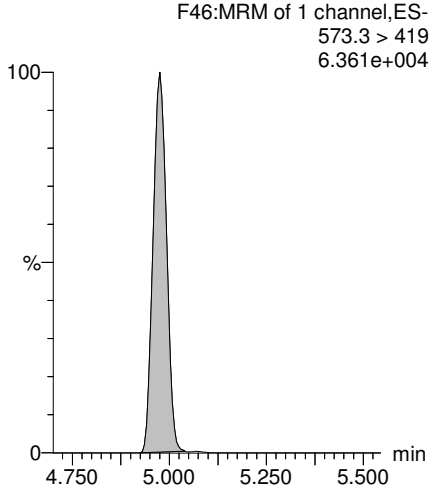
PFDoA



13C2-PFUdA



d3-N-MeFOSAA



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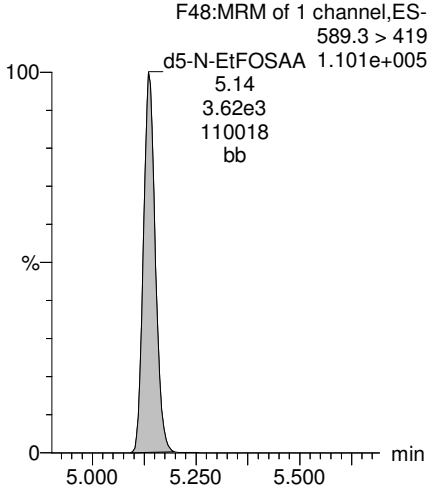

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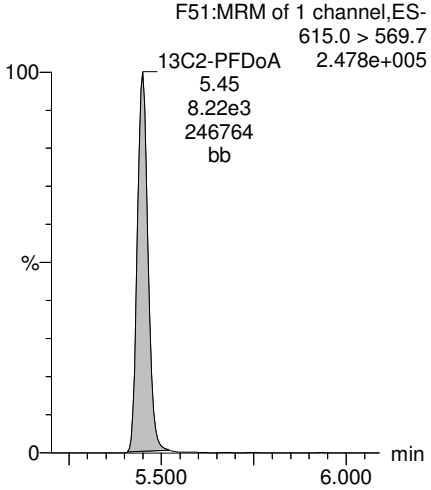

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:33 Pacific Standard Time

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

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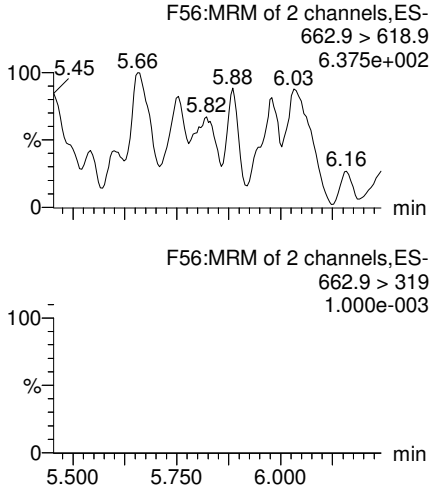

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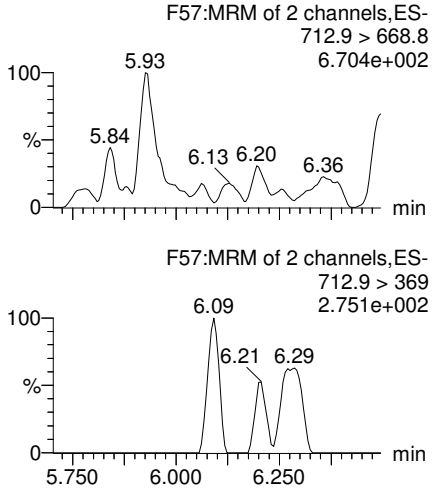

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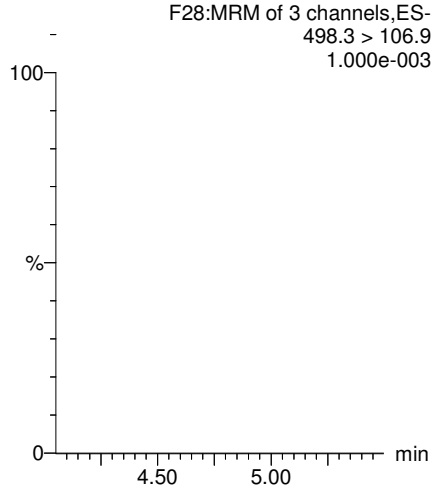
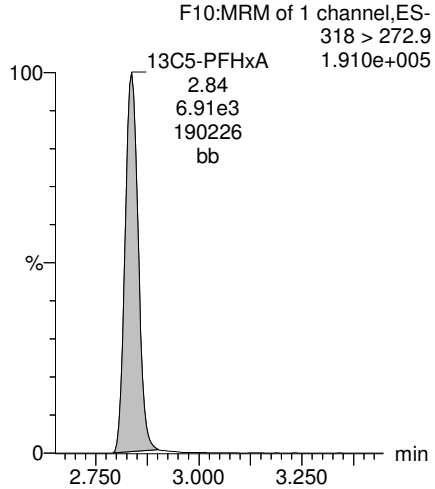


13C5-PFHxA



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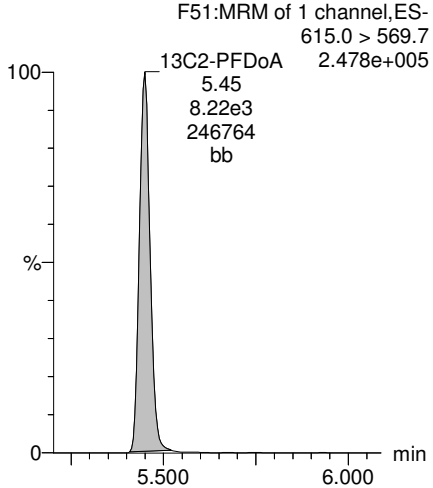

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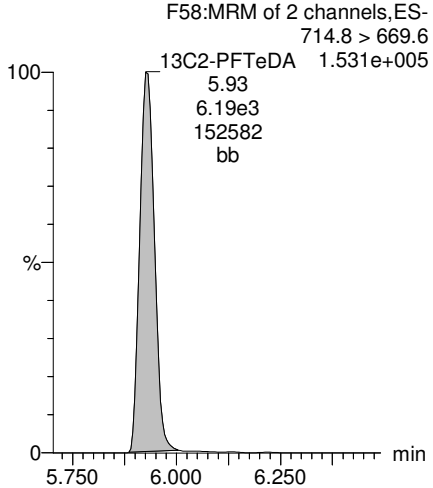

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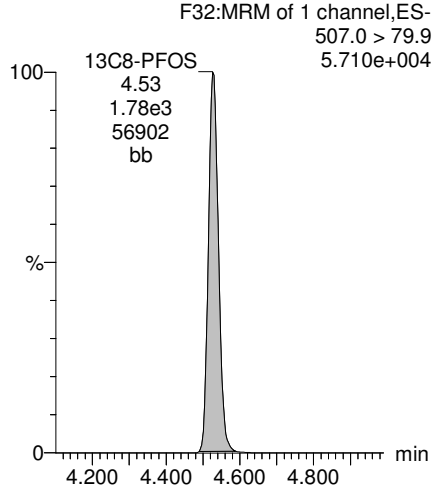

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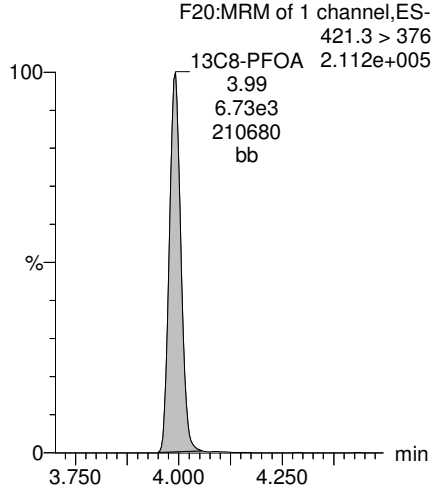

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Vista Analytical Laboratory

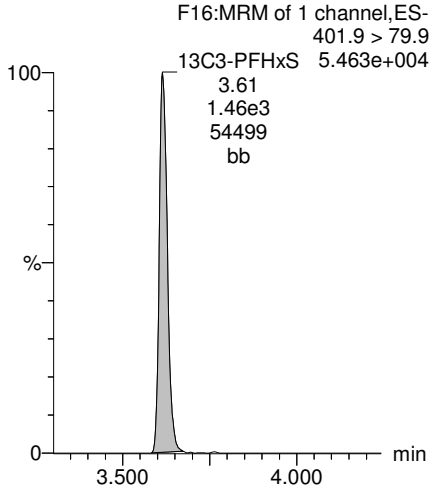
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-55.qld

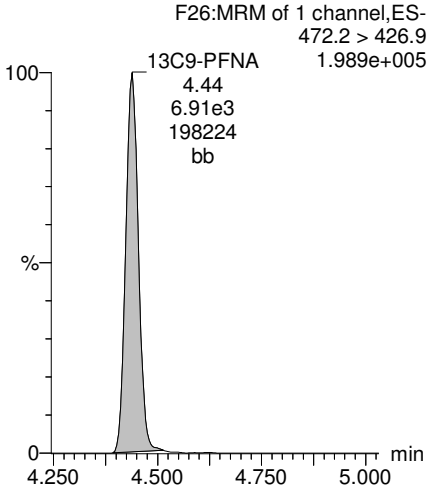
Last Altered: Monday, November 27, 2017 10:32:59 Pacific Standard Time
Printed: Monday, November 27, 2017 10:33:33 Pacific Standard Time

Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

13C3-PFHxS



13C9-PFNA



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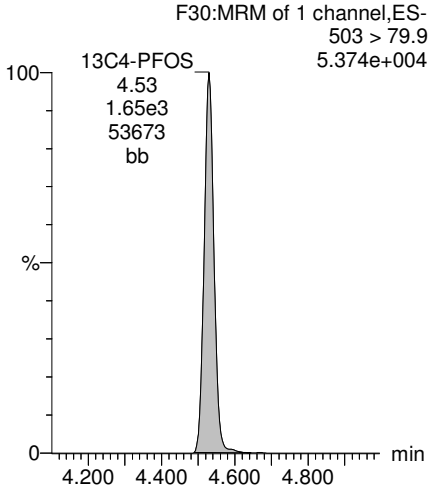

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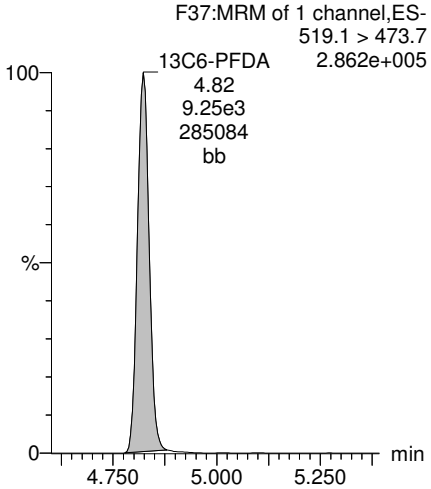
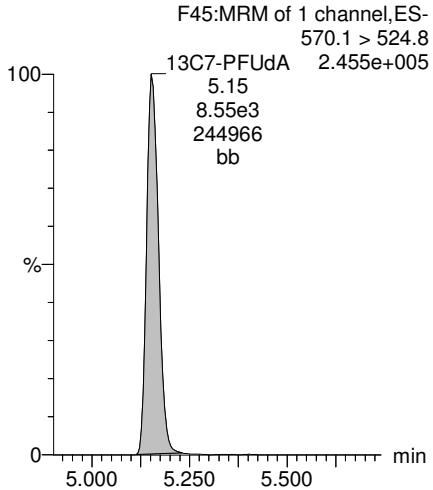


13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

Last Altered: Monday, November 27, 2017 10:36:57 Pacific Standard Time
Printed: Monday, November 27, 2017 10:37:21 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.87e2	7.86e2	0.11370		2.44	2.34	4.56	16.211	
2	4	PFHxA	313.2 > 268.9	1.04e3	2.08e3	0.11370		2.93	2.84	2.50	12.991	
3	5	PFHpA	363.0 > 318.9	2.08e2	5.31e3	0.11370		3.56	3.46	0.490	2.321	
4	6	L-PFHxS	398.9 > 79.6	6.84e2	6.15e2	0.11370		3.71	3.62	13.9	52.698	
5	9	L-PFOA	413 > 368.7	2.30e2	7.33e3	0.11370		4.05	3.99	0.392	0.813	
6	12	PFNA	463.0 > 418.8		6.09e3	0.11370		4.55				
7	14	L-PFOS	499 > 79.9	6.12e1	1.71e3	0.11370		4.63	4.54	0.449	3.368	
8	16	PFDA	513 > 468.8		5.64e3	0.11370		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.92e3	0.11370		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.99e3	0.11370		5.24				
11	20	PFUdA	563.0 > 518.9		7.81e3	0.11370		5.25				
12	22	PFDoA	612.9 > 569.0		7.17e3	0.11370		5.55				

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

Last Altered: Monday, November 27, 2017 10:36:57 Pacific Standard Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		7.17e3	0.11370		5.80				
2	25	PFTeDA	712.9 > 668.8		1.00e4	0.11370		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.15e3	5.31e3	0.11370	0.884	1.17	1.09	12.1	120.577	109.7
4	32	13C3-PFPeA	266. > 221.8	5.86e3	6.83e3	0.11370	0.727	2.15	2.05	10.7	129.689	118.0
5	33	13C3-PFBS	302. > 98.8	7.86e2	6.83e3	0.11370	0.083	2.44	2.34	1.44	152.777	139.0
6	34	13C2-PFHxA	315 > 269.8	2.08e3	6.83e3	0.11370	0.703	2.93	2.84	3.80	47.577	108.2
7	35	13C4-PFHpA	367.2 > 321.8	5.31e3	6.83e3	0.11370	0.656	3.56	3.46	9.71	130.157	118.4
8	36	18O2-PFHxS	403.0 > 102.6	6.15e2	1.50e3	0.11370	0.408	3.71	3.62	5.10	110.038	100.1
9	37	13C2-6:2 FTS	429.1 > 408.9	1.94e3	5.94e3	0.11370	0.243	4.03	3.94	4.09	147.991	134.6
10	38	13C2-PFOA	414.9 > 369.7	7.33e3	5.94e3	0.11370	1.076	4.05	3.99	15.4	126.234	114.8
11	39	13C5-PFNA	468.2 > 422.9	6.09e3	7.11e3	0.11370	0.914	4.55	4.44	10.7	103.116	93.8
12	40	13C8-PFOSA	506.1 > 77.7	1.01e3	8.94e3	0.11370	0.211	4.59	4.50	1.41	58.924	53.6
13	41	13C8-PFOS	507.0 > 79.9	1.71e3	1.59e3	0.11370	0.982	4.63	4.53	13.4	119.845	109.0
14	42	13C2-PFDA	515.1 > 469.9	5.64e3	7.30e3	0.11370	0.891	4.92	4.83	9.66	95.359	86.7
15	43	13C2-8:2 FTS	529.1 > 508.7	1.40e3	7.30e3	0.11370	0.198	4.89	4.79	2.39	106.166	96.6
16	44	d3-N-MeFOSAA	573.3 > 419	2.92e3	8.94e3	0.11370	0.361	5.08	4.98	4.08	99.594	90.6
17	45	d5-N-EtFOSAA	589.3 > 419	2.99e3	8.94e3	0.11370	0.394	5.24	5.14	4.18	93.342	84.9
18	46	13C2-PFUdA	565 > 519.8	7.81e3	8.94e3	0.11370	0.966	5.25	5.16	10.9	99.431	90.4
19	47	13C2-PFDoA	615.0 > 569.7	7.17e3	8.94e3	0.11370	0.989	5.55	5.45	10.0	89.132	81.1
20	49	13C2-PFTeDA	714.8 > 669.6	1.00e4	8.94e3	0.11370	0.927	6.02	5.93	14.0	132.923	120.9
21	54	13C4-PFBA	217. > 171.8	5.31e3	5.31e3	0.11370	1.000	1.17	1.10	12.5	109.938	100.0
22	55	13C5-PFHxA	318 > 272.9	6.83e3	6.83e3	0.11370	1.000	2.93	2.84	12.5	109.938	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.50e3	1.50e3	0.11370	1.000	3.71	3.62	12.5	109.938	100.0
24	57	13C8-PFOA	421.3 > 376	5.94e3	5.94e3	0.11370	1.000	4.05	4.00	12.5	109.938	100.0
25	58	13C9-PFNA	472.2 > 426.9	7.11e3	7.11e3	0.11370	1.000	4.55	4.44	12.5	109.938	100.0
26	59	13C4-PFOS	503 > 79.9	1.59e3	1.59e3	0.11370	1.000	4.63	4.53	12.5	109.938	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.30e3	7.30e3	0.11370	1.000	4.92	4.83	12.5	109.938	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.94e3	8.94e3	0.11370	1.000	5.25	5.16	12.5	109.938	100.0
29	62	Total PFHxS	398.9 > 79.6	6.84e2	6.15e2	0.11370		3.71		13.9	52.698	
30	63	Total PFOA	413 > 368.7	3.28e2	7.33e3	0.11370		4.05		0.392	0.813	
31	64	Total PFOS	499 > 79.9	6.12e1	1.71e3	0.11370		4.63		0.449	3.368	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.92e3	0.11370		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

Last Altered: Monday, November 27, 2017 10:36:57 Pacific Standard Time
Printed: Monday, November 27, 2017 10:37:37 Pacific Standard Time

Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.99e3	0.11370		5.24		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

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Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

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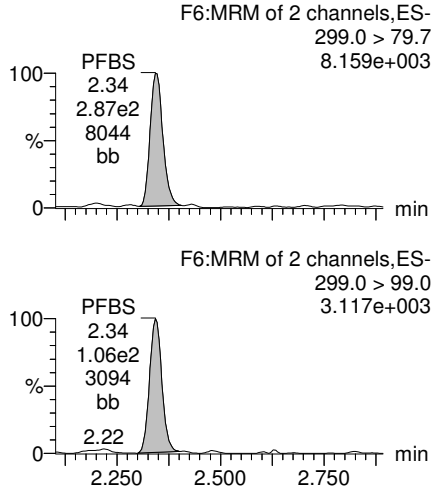

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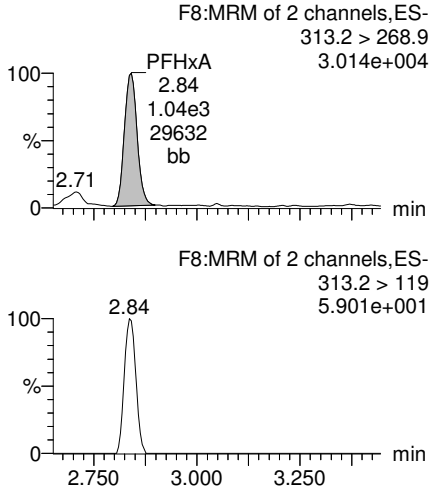
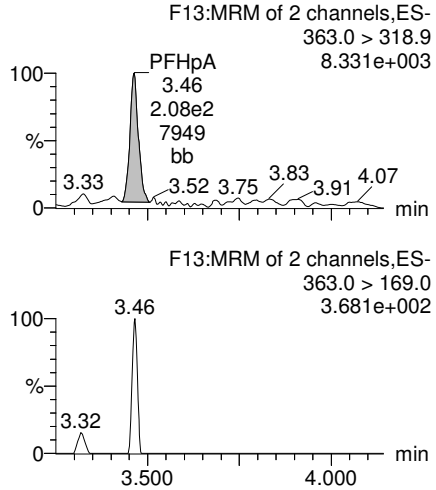


PFHpA



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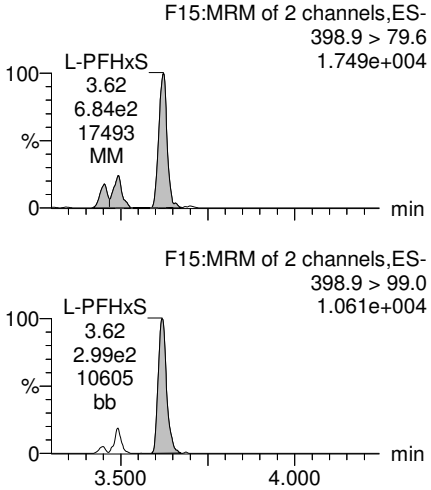

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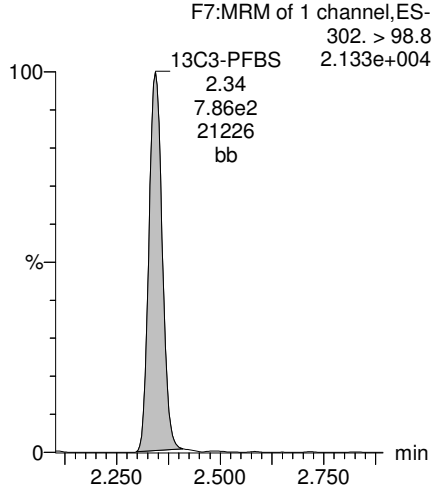
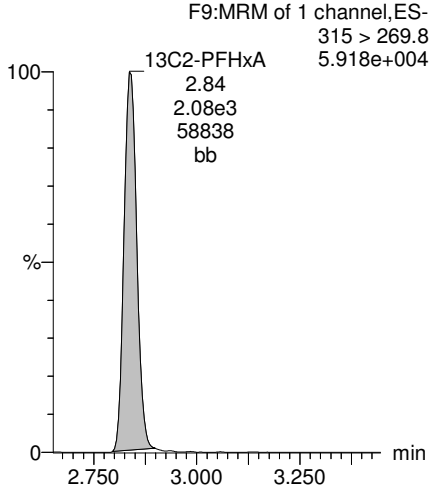


13C2-PFHxA



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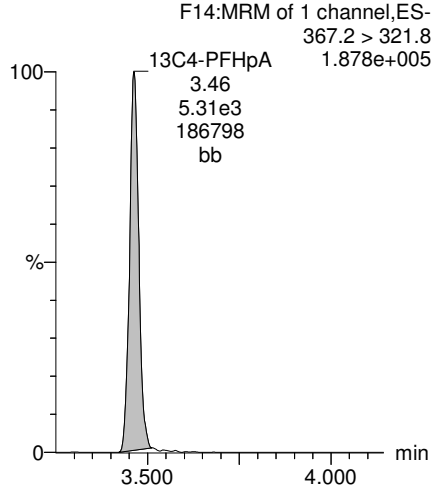

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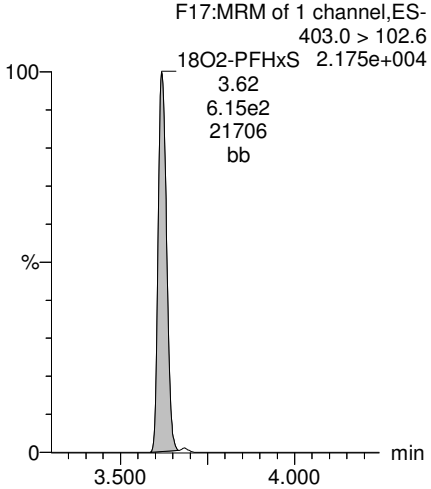

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

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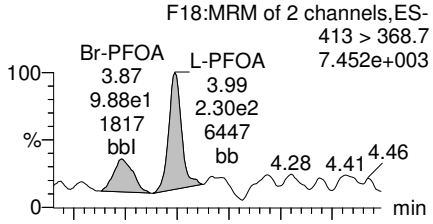
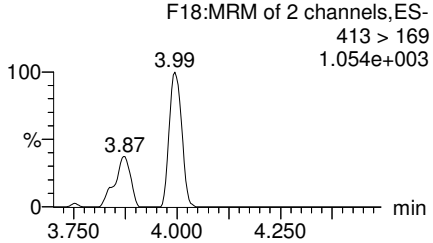
Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

Total PFOA





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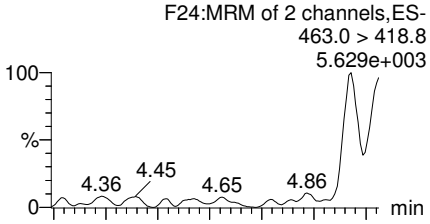
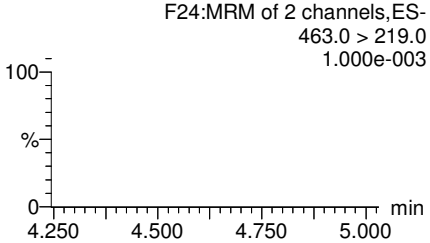
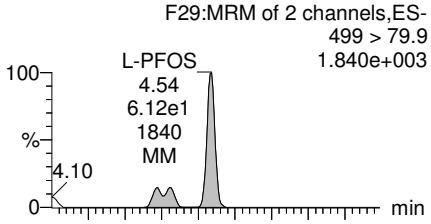
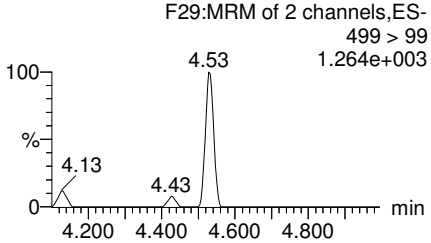




Total PFOS





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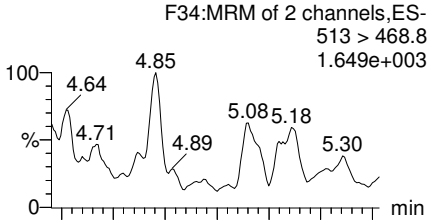
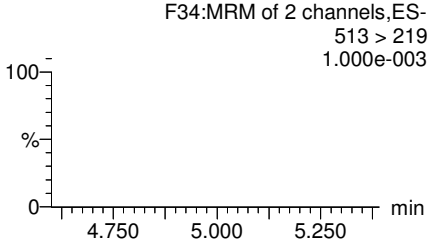
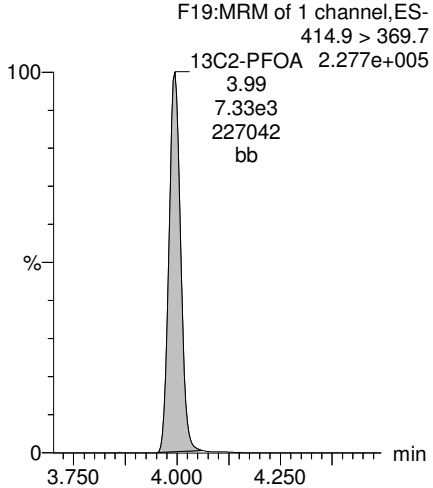
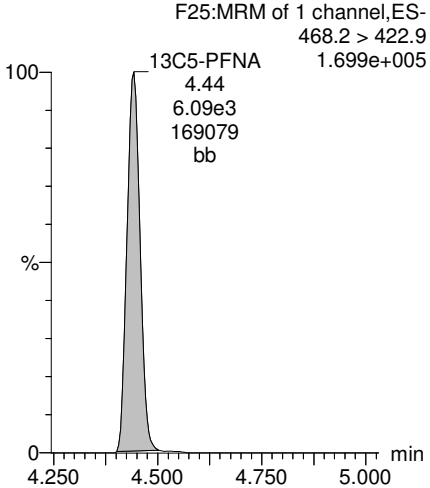




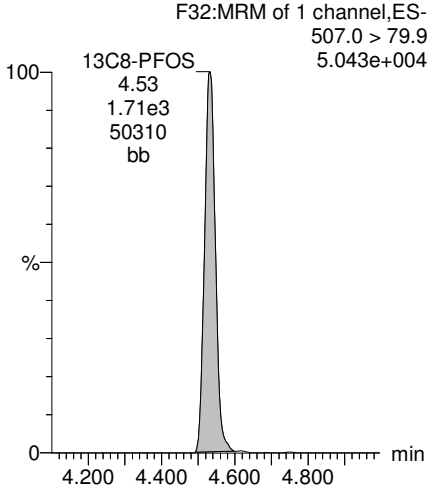
13C2-PFOA



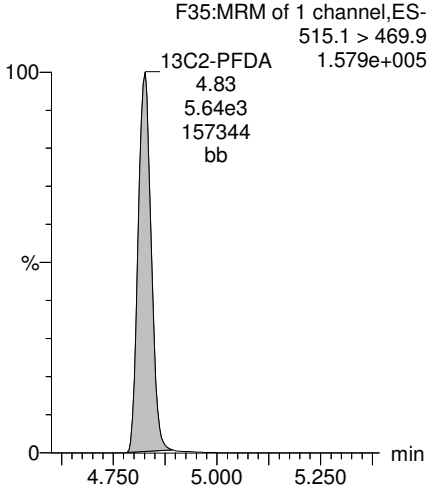
13C5-PFNA



13C8-PFOS



13C2-PFDA



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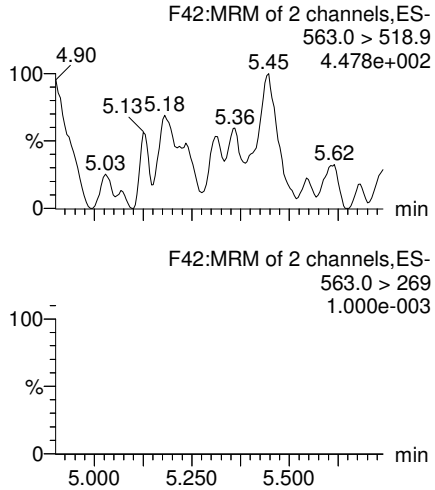
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

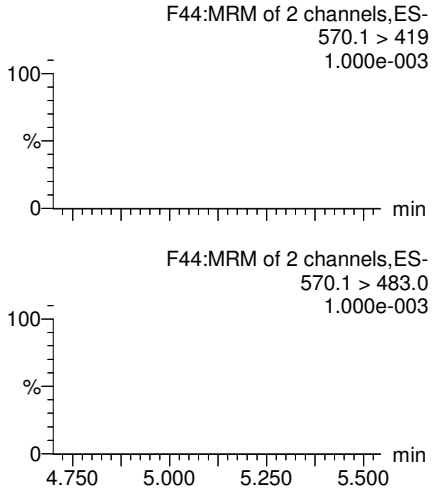
Last Altered: Monday, November 27, 2017 10:36:57 Pacific Standard Time
Printed: Monday, November 27, 2017 10:37:37 Pacific Standard Time

Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

PFUdA



N-MeFOSAA



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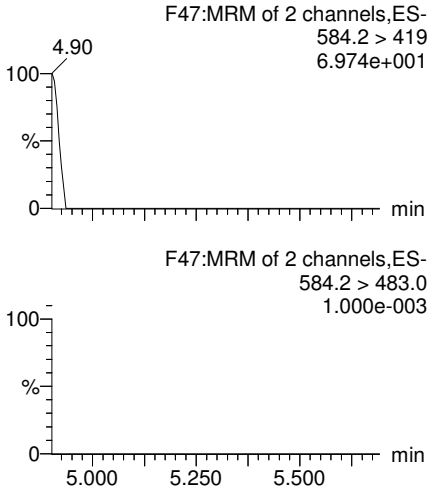
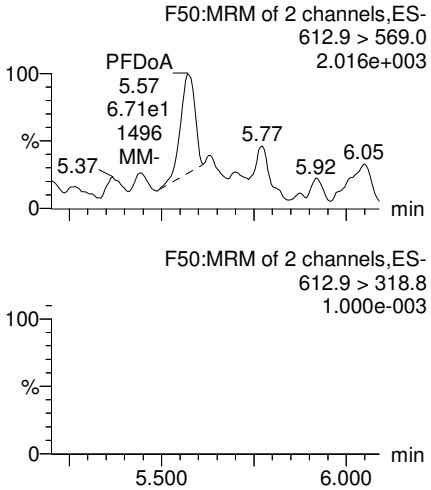


PFDoA



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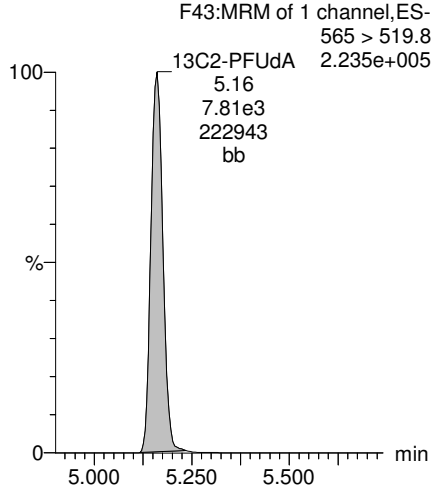

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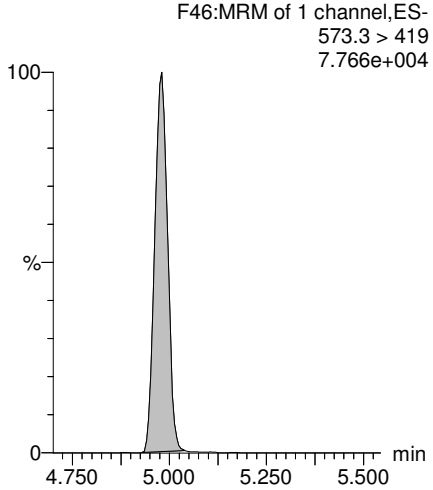

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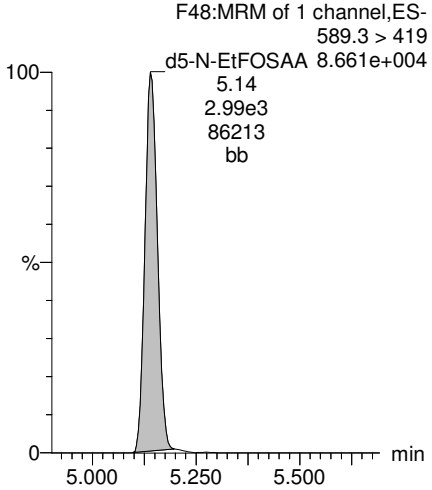

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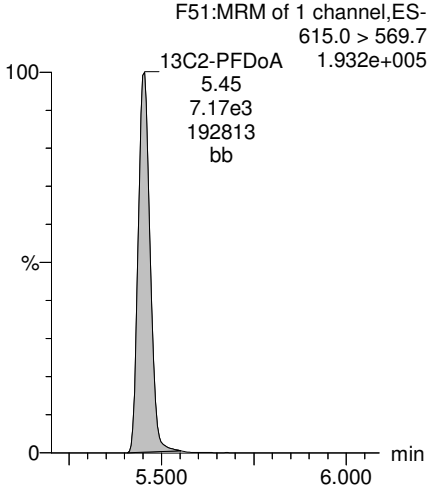

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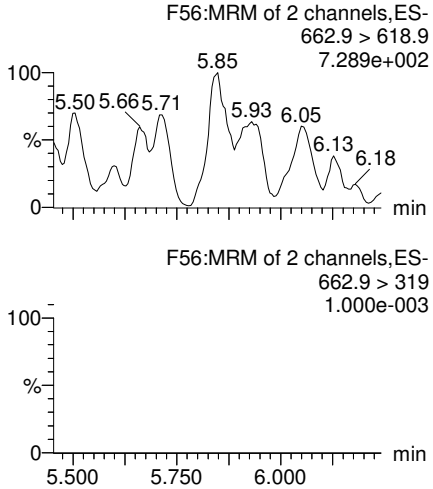
Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

Last Altered: Monday, November 27, 2017 10:36:57 Pacific Standard Time
Printed: Monday, November 27, 2017 10:37:37 Pacific Standard Time

Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

PFTrDA



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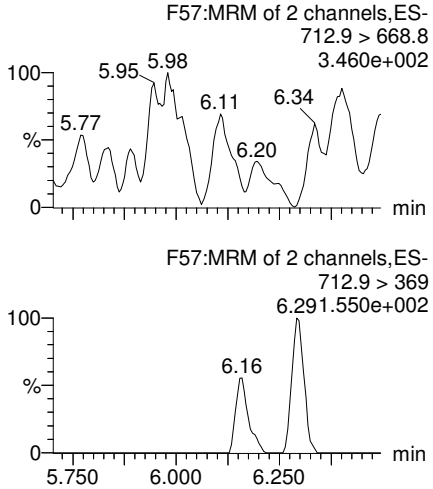

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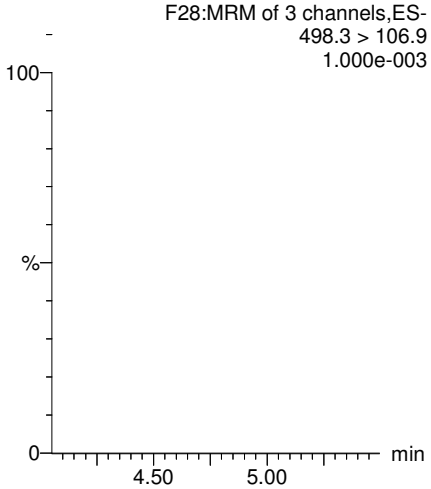

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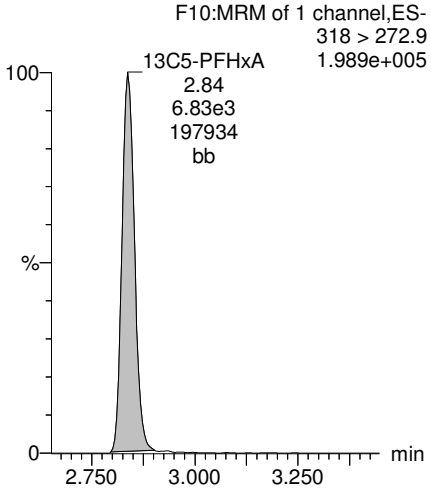

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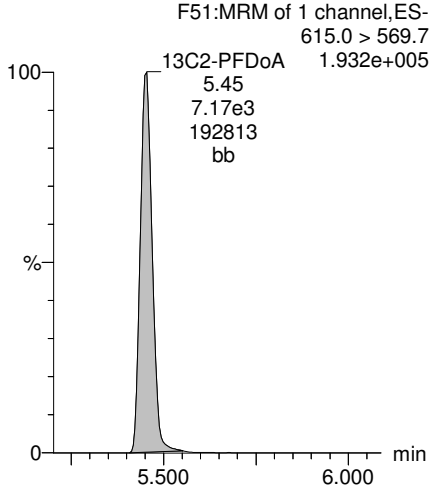

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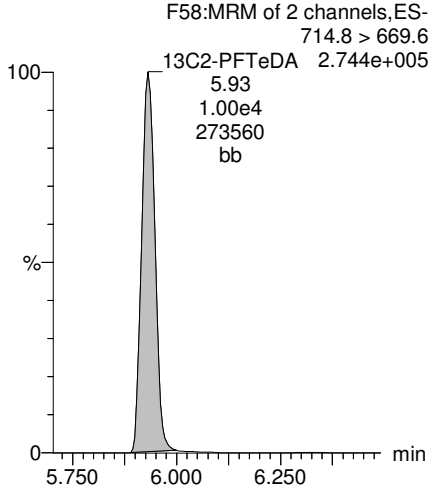
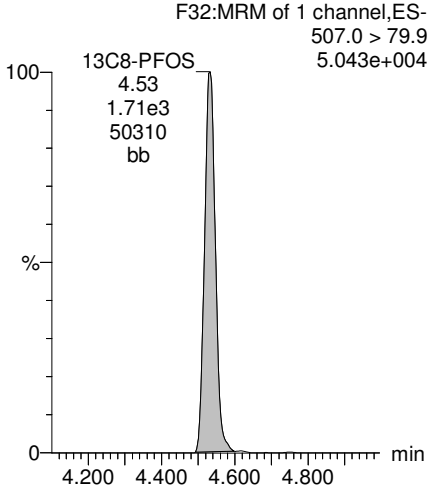
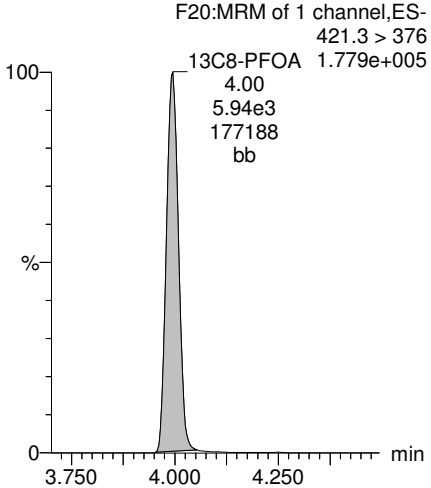


13C8-PFOS



13C8-PFOA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-59.qld

Last Altered: Monday, November 27, 2017 10:36:57 Pacific Standard Time
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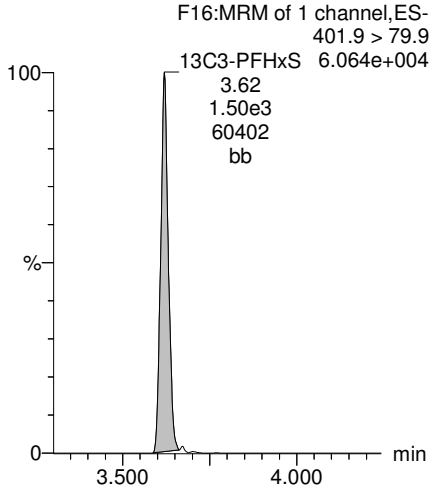
Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

13C3-PFHxS



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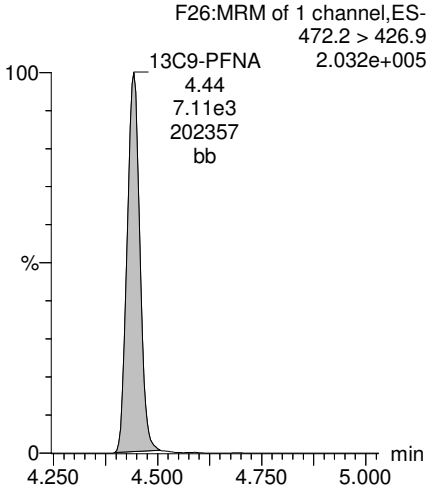
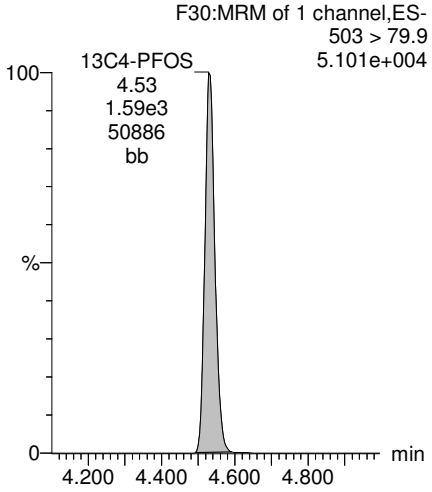
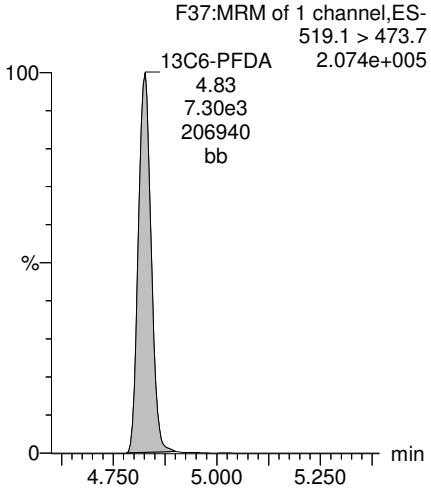


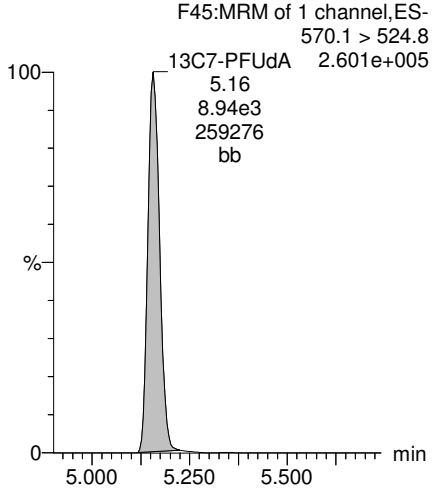
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-60.qld

Last Altered: Monday, November 27, 2017 10:41:34 Pacific Standard Time
Printed: Monday, November 27, 2017 10:42:22 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.95e2	7.41e2	0.11742		2.44	2.35	3.28	11.206	
2	4	PFHxA	313.2 > 268.9	1.62e3	2.25e3	0.11742		2.93	2.84	3.60	18.287	
3	5	PFHpA	363.0 > 318.9	2.78e2	5.30e3	0.11742		3.56	3.47	0.657	3.194	
4	6	L-PFHxS	398.9 > 79.6	1.46e3	6.82e2	0.11742		3.71	3.62	26.8	98.751	
5	9	L-PFOA	413 > 368.7	6.32e2	7.50e3	0.11742		4.05	3.99	1.05	6.523	
6	12	PFNA	463.0 > 418.8		6.86e3	0.11742		4.55				
7	14	L-PFOS	499 > 79.9	2.38e3	1.84e3	0.11742		4.63	4.53	16.2	131.945	
8	16	PFDA	513 > 468.8		6.43e3	0.11742		4.92				
9	18	N-MeFOSAA	570.1 > 419		3.00e3	0.11742		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.09e3	0.11742		5.24				
11	20	PFUdA	563.0 > 518.9		8.88e3	0.11742		5.25				
12	22	PFDoA	612.9 > 569.0		7.55e3	0.11742		5.55				

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-60.qld

Last Altered: Monday, November 27, 2017 10:41:34 Pacific Standard Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		7.55e3	0.11742		5.80				
2	25	PFTeDA	712.9 > 668.8		8.73e3	0.11742		6.02				
3	31	13C3-PFBA	216.1 > 171.8	4.73e3	4.79e3	0.11742	0.884	1.17	1.10	12.3	118.869	111.7
4	32	13C3-PFPeA	266. > 221.8	5.68e3	7.14e3	0.11742	0.727	2.15	2.05	9.95	116.505	109.4
5	33	13C3-PFBS	302. > 98.8	7.41e2	7.14e3	0.11742	0.083	2.44	2.35	1.30	133.468	125.4
6	34	13C2-PFHxA	315 > 269.8	2.25e3	7.14e3	0.11742	0.703	2.93	2.84	3.94	47.698	112.0
7	35	13C4-PFHpA	367.2 > 321.8	5.30e3	7.14e3	0.11742	0.656	3.56	3.47	9.28	120.359	113.1
8	36	18O2-PFHxS	403.0 > 102.6	6.82e2	1.49e3	0.11742	0.408	3.71	3.62	5.73	119.672	112.4
9	37	13C2-6:2 FTS	429.1 > 408.9	1.90e3	5.88e3	0.11742	0.243	4.03	3.94	4.04	141.588	133.0
10	38	13C2-PFOA	414.9 > 369.7	7.50e3	5.88e3	0.11742	1.076	4.05	4.00	15.9	126.185	118.5
11	39	13C5-PFNA	468.2 > 422.9	6.86e3	7.65e3	0.11742	0.914	4.55	4.44	11.2	104.356	98.0
12	40	13C8-PFOSA	506.1 > 77.7	1.12e3	8.13e3	0.11742	0.211	4.59	4.50	1.73	69.702	65.5
13	41	13C8-PFOS	507.0 > 79.9	1.84e3	1.53e3	0.11742	0.982	4.63	4.53	15.1	130.643	122.7
14	42	13C2-PFDA	515.1 > 469.9	6.43e3	5.94e3	0.11742	0.891	4.92	4.83	13.5	129.309	121.5
15	43	13C2-8:2 FTS	529.1 > 508.7	1.51e3	5.94e3	0.11742	0.198	4.89	4.79	3.18	136.649	128.4
16	44	d3-N-MeFOSAA	573.3 > 419	3.00e3	8.13e3	0.11742	0.361	5.08	4.98	4.61	108.884	102.3
17	45	d5-N-EtFOSAA	589.3 > 419	3.09e3	8.13e3	0.11742	0.394	5.24	5.14	4.76	102.812	96.6
18	46	13C2-PFUdA	565 > 519.8	8.88e3	8.13e3	0.11742	0.966	5.25	5.16	13.7	120.299	113.0
19	47	13C2-PFDoA	615.0 > 569.7	7.55e3	8.13e3	0.11742	0.989	5.55	5.45	11.6	99.985	93.9
20	49	13C2-PFTeDA	714.8 > 669.6	8.73e3	8.13e3	0.11742	0.927	6.02	5.93	13.4	123.347	115.9
21	54	13C4-PFBA	217. > 171.8	4.79e3	4.79e3	0.11742	1.000	1.17	1.10	12.5	106.455	100.0
22	55	13C5-PFHxA	318 > 272.9	7.14e3	7.14e3	0.11742	1.000	2.93	2.84	12.5	106.455	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.49e3	1.49e3	0.11742	1.000	3.71	3.62	12.5	106.455	100.0
24	57	13C8-PFOA	421.3 > 376	5.88e3	5.88e3	0.11742	1.000	4.05	4.00	12.5	106.455	100.0
25	58	13C9-PFNA	472.2 > 426.9	7.65e3	7.65e3	0.11742	1.000	4.55	4.44	12.5	106.455	100.0
26	59	13C4-PFOS	503 > 79.9	1.53e3	1.53e3	0.11742	1.000	4.63	4.53	12.5	106.455	100.0
27	60	13C6-PFDA	519.1 > 473.7	5.94e3	5.94e3	0.11742	1.000	4.92	4.83	12.5	106.455	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.13e3	8.13e3	0.11742	1.000	5.25	5.16	12.5	106.455	100.0
29	62	Total PFHxS	398.9 > 79.6	1.46e3	6.82e2	0.11742		3.71		26.8	98.751	
30	63	Total PFOA	413 > 368.7	7.59e2	7.50e3	0.11742		4.05		1.05	6.523	
31	64	Total PFOS	499 > 79.9	2.38e3	1.84e3	0.11742		4.63		16.2	131.945	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.00e3	0.11742		5.08		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-60.qld

Last Altered: Monday, November 27, 2017 10:41:34 Pacific Standard Time
Printed: Monday, November 27, 2017 10:42:37 Pacific Standard Time

Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.09e3	0.11742		5.24		0.000		

MJT11/27/2017

Vista Analytical Laboratory

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Last Altered: Monday, November 27, 2017 10:41:34 Pacific Standard Time
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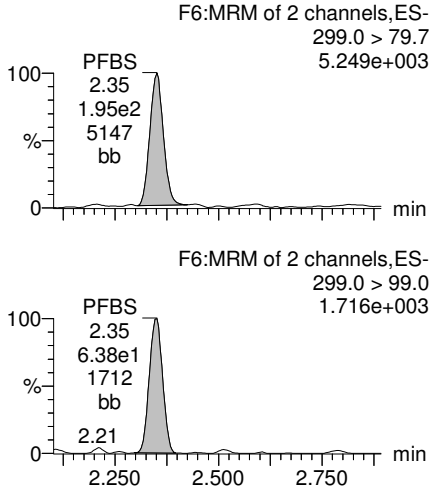
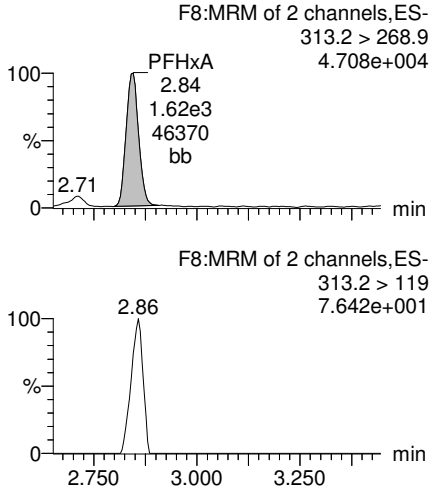
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

PFBS



PFHxA



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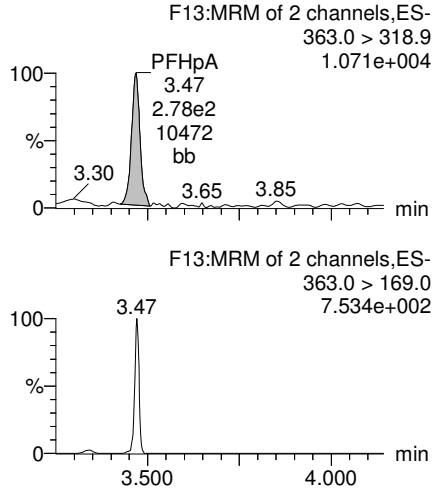

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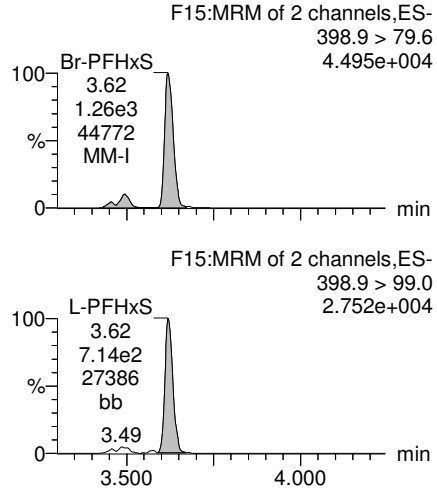

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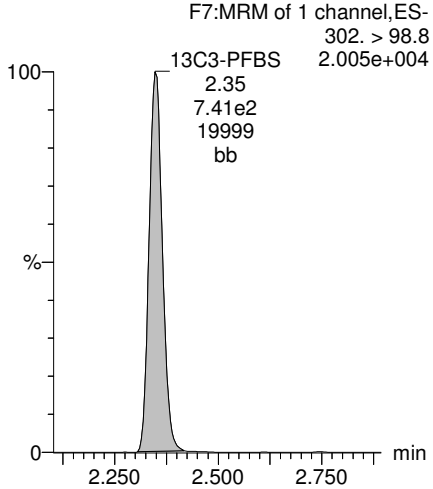

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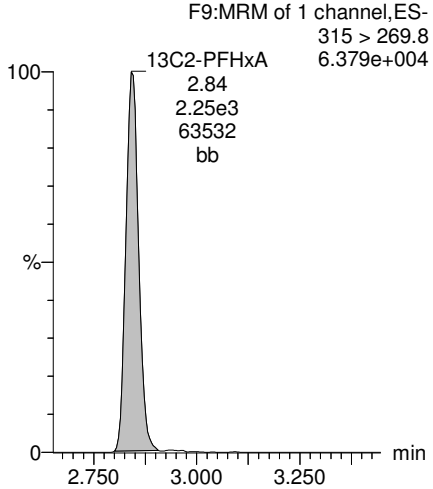

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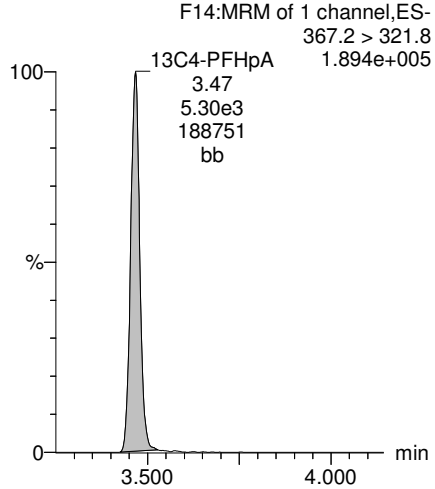

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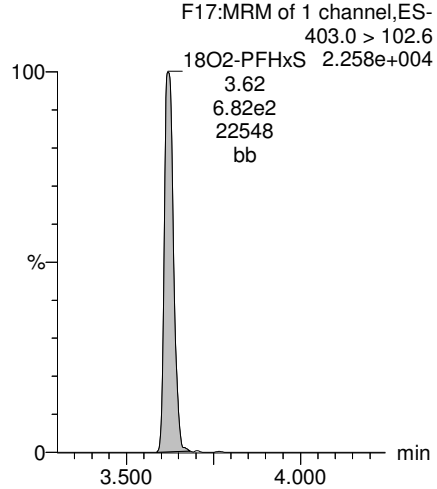

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-60.qld

Last Altered: Monday, November 27, 2017 10:41:34 Pacific Standard Time
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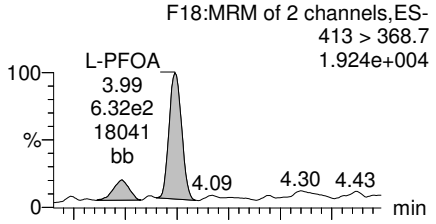
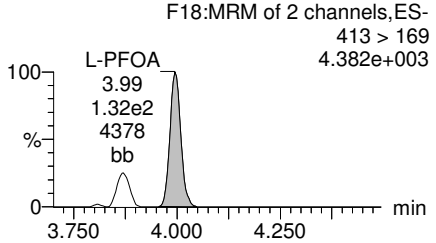
Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

Total PFOA





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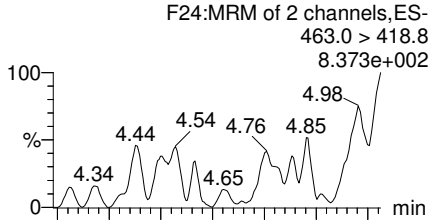
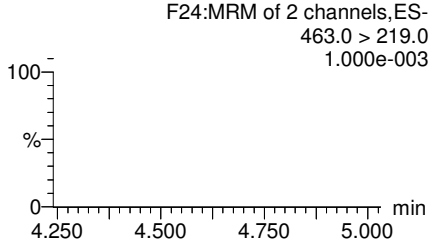
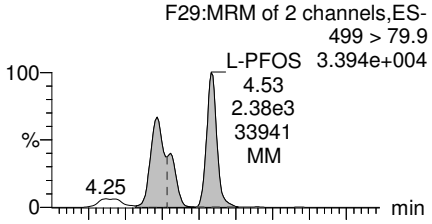
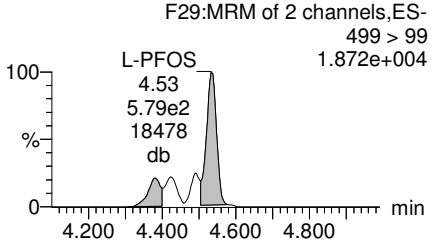




Total PFOS





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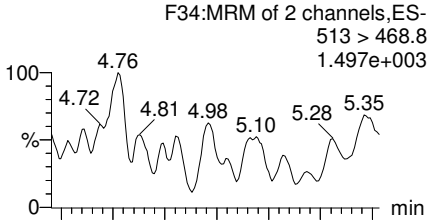

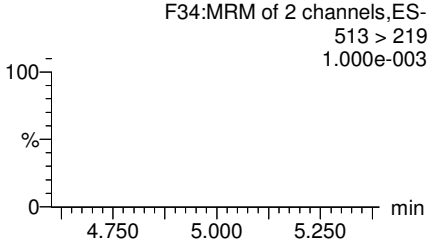

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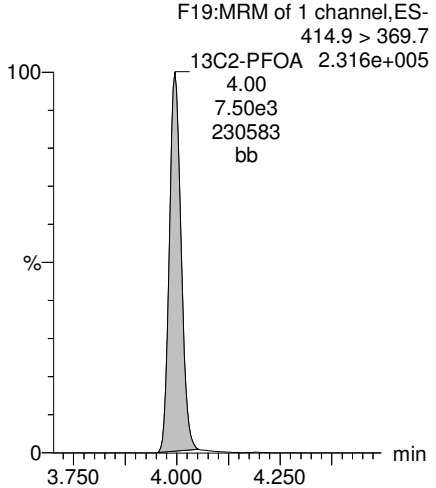

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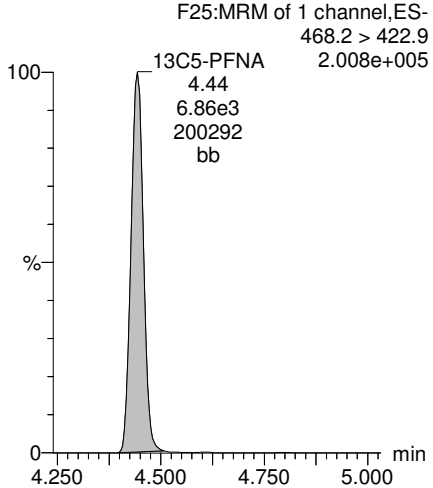

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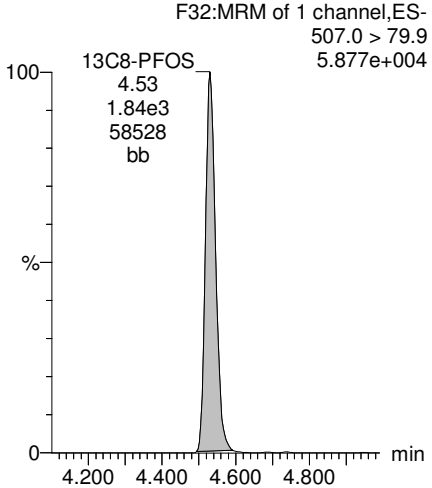

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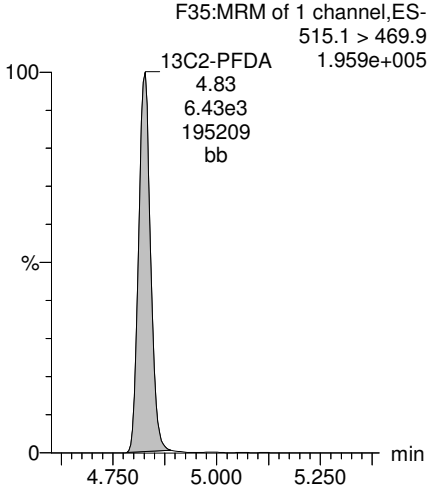

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-60.qld

Last Altered: Monday, November 27, 2017 10:41:34 Pacific Standard Time
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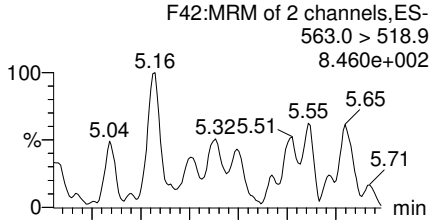
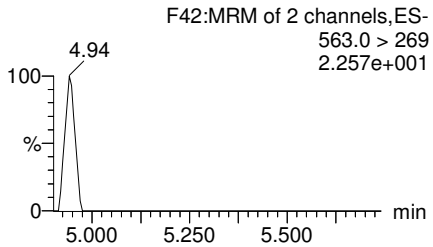
Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

PFUdA





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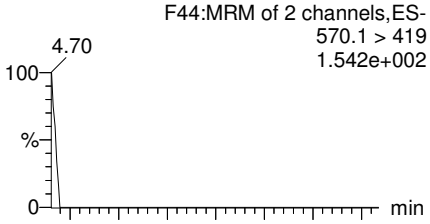

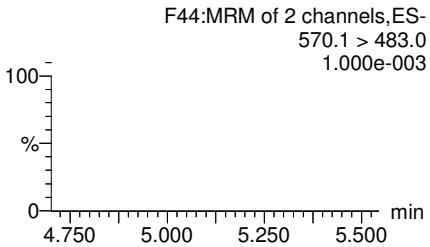

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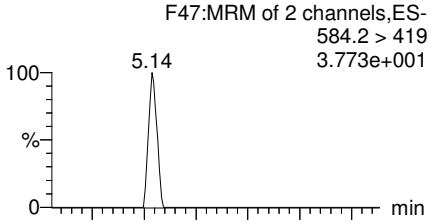

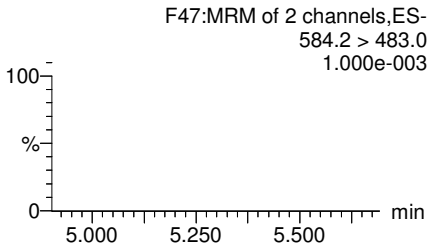

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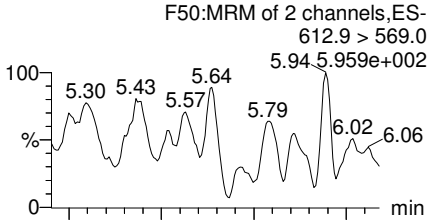

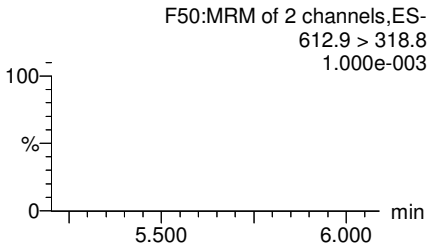

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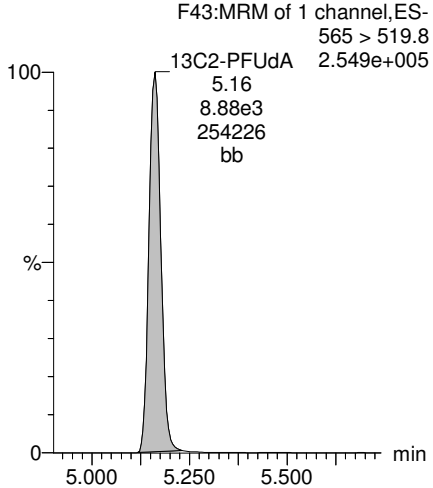

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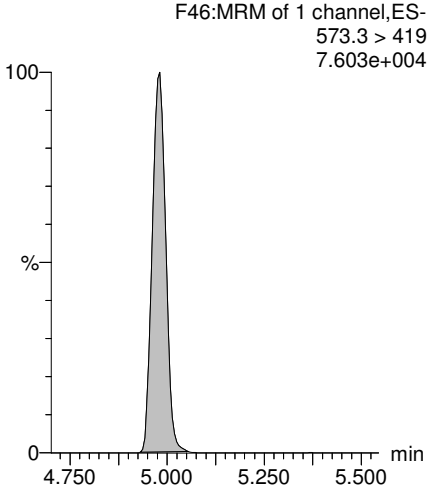

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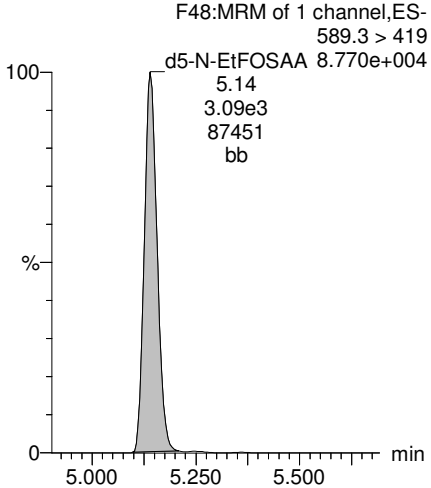

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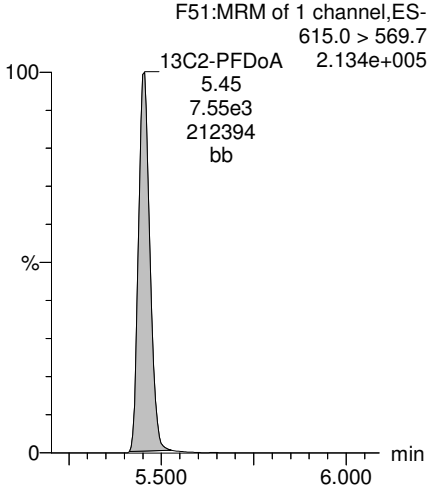

MJT11/27/2017

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Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

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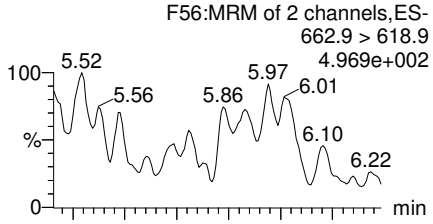

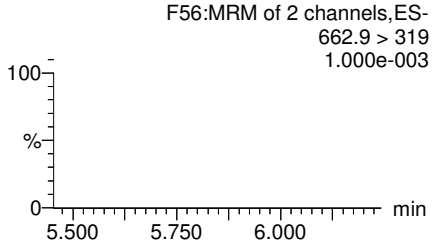

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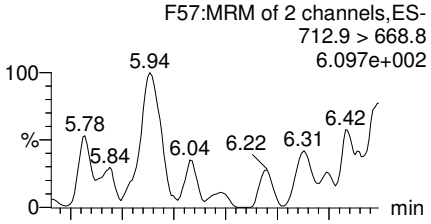

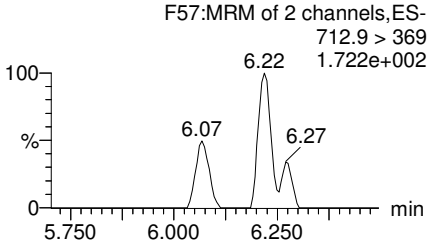

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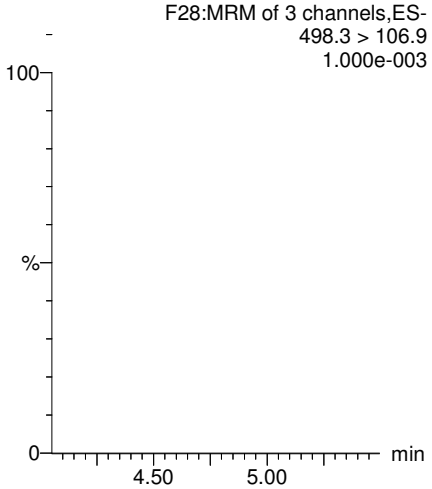

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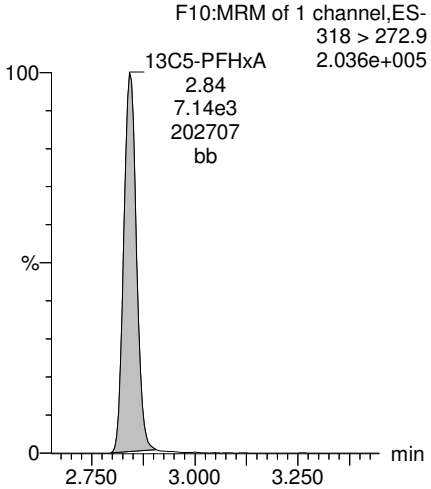

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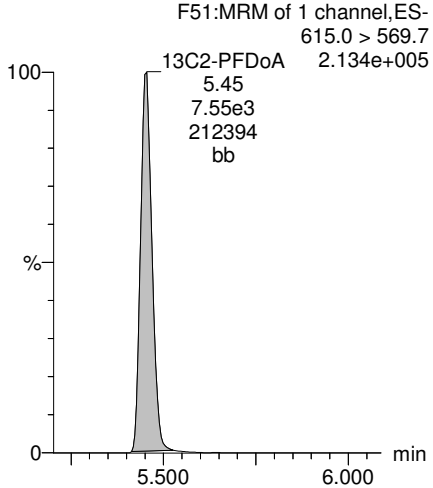

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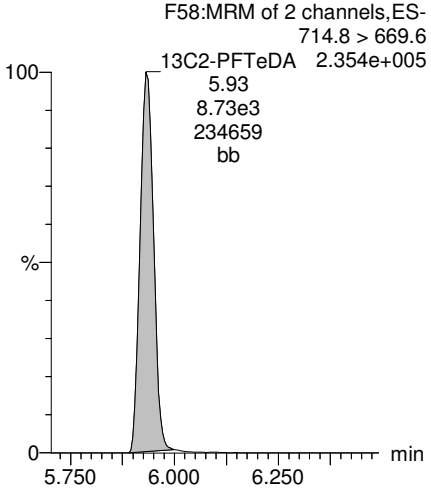

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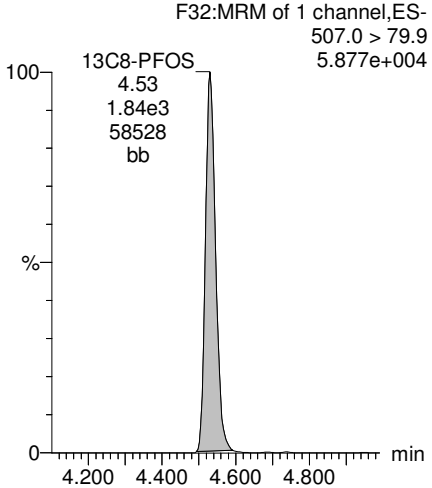

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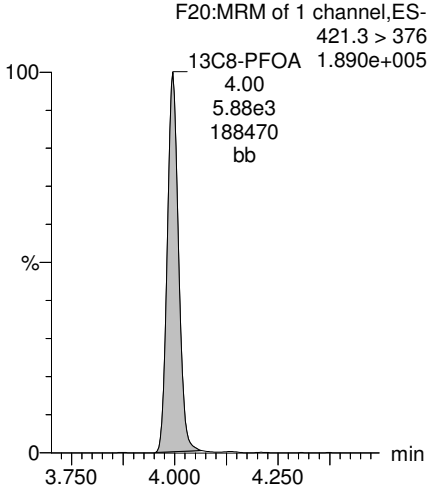

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-60.qld

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Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

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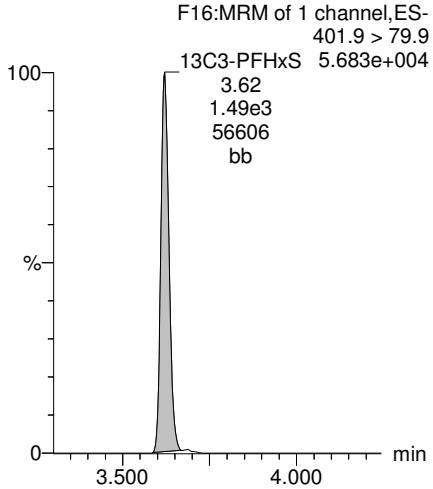

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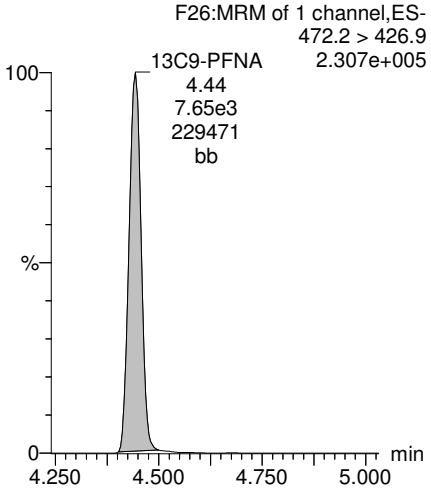

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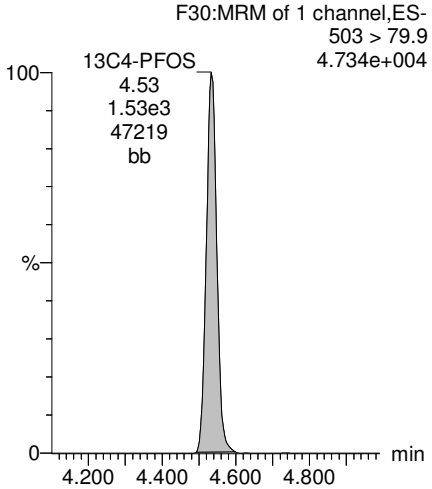

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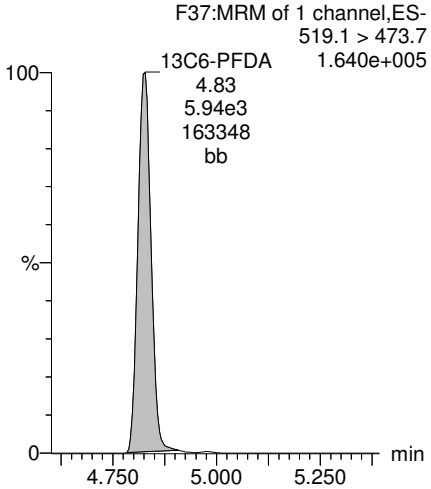
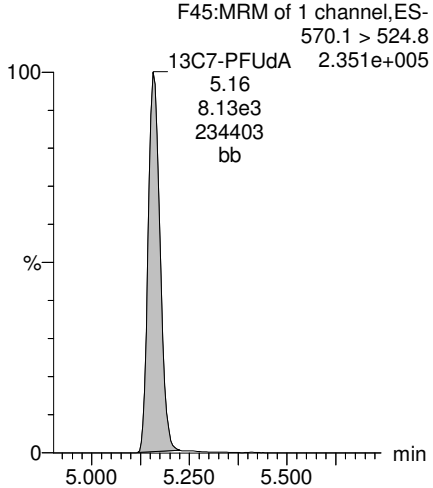


13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-61.qld

Last Altered: Monday, November 27, 2017 10:46:35 Pacific Standard Time
Printed: Monday, November 27, 2017 10:48:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.28e2	8.06e2	0.11797		2.44	2.34	3.53	12.028	
2	4	PFHxA	313.2 > 268.9	1.99e3	2.22e3	0.11797		2.93	2.84	4.48	22.746	
3	5	PFHpA	363.0 > 318.9	3.23e2	5.68e3	0.11797		3.56	3.46	0.712	3.490	
4	6	L-PFHxS	398.9 > 79.6	1.53e3	6.04e2	0.11797		3.71	3.62	31.6	115.785	
5	9	L-PFOA	413 > 368.7	6.61e2	7.70e3	0.11797		4.05	3.99	1.07	6.665	
6	12	PFNA	463.0 > 418.8		7.64e3	0.11797		4.55				
7	14	L-PFOS	499 > 79.9	2.73e3	2.09e3	0.11797		4.63	4.53	16.3	132.418	
8	16	PFDA	513 > 468.8		6.50e3	0.11797		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.83e3	0.11797		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.53e3	0.11797		5.24				
11	20	PFUdA	563.0 > 518.9		6.83e3	0.11797		5.25				
12	22	PFDoA	612.9 > 569.0		9.58e3	0.11797		5.55				

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-61.qld

Last Altered: Monday, November 27, 2017 10:46:35 Pacific Standard Time
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Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		9.58e3	0.11797		5.80				
2	25	PFTeDA	712.9 > 668.8		9.24e3	0.11797		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.19e3	5.12e3	0.11797	0.884	1.17	1.09	12.7	121.598	114.8
4	32	13C3-PFPeA	266. > 221.8	5.77e3	7.19e3	0.11797	0.727	2.15	2.05	10.0	116.924	110.3
5	33	13C3-PFBS	302. > 98.8	8.06e2	7.19e3	0.11797	0.083	2.44	2.34	1.40	143.318	135.3
6	34	13C2-PFHxA	315 > 269.8	2.22e3	7.19e3	0.11797	0.703	2.93	2.84	3.86	46.571	109.9
7	35	13C4-PFHpA	367.2 > 321.8	5.68e3	7.19e3	0.11797	0.656	3.56	3.46	9.87	127.425	120.3
8	36	18O2-PFHxS	403.0 > 102.6	6.04e2	1.42e3	0.11797	0.408	3.71	3.62	5.32	110.616	104.4
9	37	13C2-6:2 FTS	429.1 > 408.9	1.81e3	6.31e3	0.11797	0.243	4.03	3.93	3.59	124.967	117.9
10	38	13C2-PFOA	414.9 > 369.7	7.70e3	6.31e3	0.11797	1.076	4.05	3.99	15.3	120.235	113.5
11	39	13C5-PFNA	468.2 > 422.9	7.64e3	6.90e3	0.11797	0.914	4.55	4.44	13.8	128.385	121.2
12	40	13C8-PFOSA	506.1 > 77.7	1.24e3	7.71e3	0.11797	0.211	4.59	4.50	2.00	80.492	76.0
13	41	13C8-PFOS	507.0 > 79.9	2.09e3	1.66e3	0.11797	0.982	4.63	4.53	15.7	135.647	128.0
14	42	13C2-PFDA	515.1 > 469.9	6.50e3	7.49e3	0.11797	0.891	4.92	4.83	10.9	103.270	97.5
15	43	13C2-8:2 FTS	529.1 > 508.7	1.72e3	7.49e3	0.11797	0.198	4.89	4.79	2.87	122.759	115.9
16	44	d3-N-MeFOSAA	573.3 > 419	2.83e3	7.71e3	0.11797	0.361	5.08	4.97	4.58	107.750	101.7
17	45	d5-N-EtFOSAA	589.3 > 419	3.53e3	7.71e3	0.11797	0.394	5.24	5.14	5.71	122.965	116.0
18	46	13C2-PFUdA	565 > 519.8	6.83e3	7.71e3	0.11797	0.966	5.25	5.16	11.1	97.137	91.7
19	47	13C2-PFDoA	615.0 > 569.7	9.58e3	7.71e3	0.11797	0.989	5.55	5.45	15.5	133.059	125.6
20	49	13C2-PFTeDA	714.8 > 669.6	9.24e3	7.71e3	0.11797	0.927	6.02	5.93	15.0	136.971	129.3
21	54	13C4-PFBA	217. > 171.8	5.12e3	5.12e3	0.11797	1.000	1.17	1.10	12.5	105.959	100.0
22	55	13C5-PFHxA	318 > 272.9	7.19e3	7.19e3	0.11797	1.000	2.93	2.84	12.5	105.959	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.42e3	1.42e3	0.11797	1.000	3.71	3.62	12.5	105.959	100.0
24	57	13C8-PFOA	421.3 > 376	6.31e3	6.31e3	0.11797	1.000	4.05	4.00	12.5	105.959	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.90e3	6.90e3	0.11797	1.000	4.55	4.44	12.5	105.959	100.0
26	59	13C4-PFOS	503 > 79.9	1.66e3	1.66e3	0.11797	1.000	4.63	4.53	12.5	105.959	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.49e3	7.49e3	0.11797	1.000	4.92	4.83	12.5	105.959	100.0
28	61	13C7-PFUdA	570.1 > 524.8	7.71e3	7.71e3	0.11797	1.000	5.25	5.16	12.5	105.959	100.0
29	62	Total PFHxS	398.9 > 79.6	1.53e3	6.04e2	0.11797		3.71		31.6	115.785	
30	63	Total PFOA	413 > 368.7	7.88e2	7.70e3	0.11797		4.05		1.07	6.665	
31	64	Total PFOS	499 > 79.9	2.73e3	2.09e3	0.11797		4.63		16.3	132.418	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.83e3	0.11797		5.08		0.000		

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-61.qld

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Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.53e3	0.11797		5.24		0.000		

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

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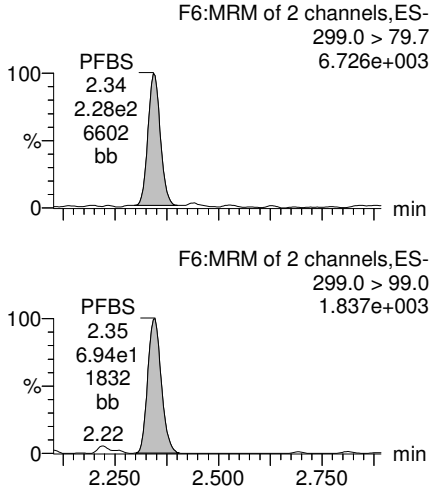

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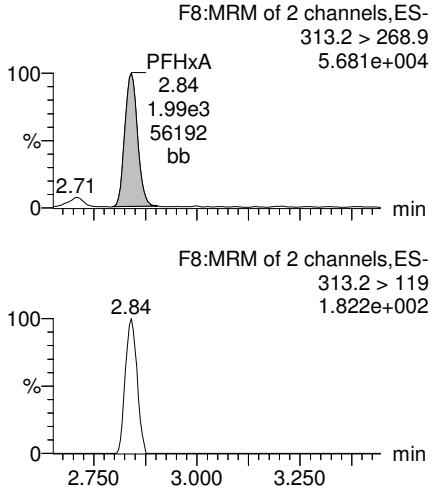

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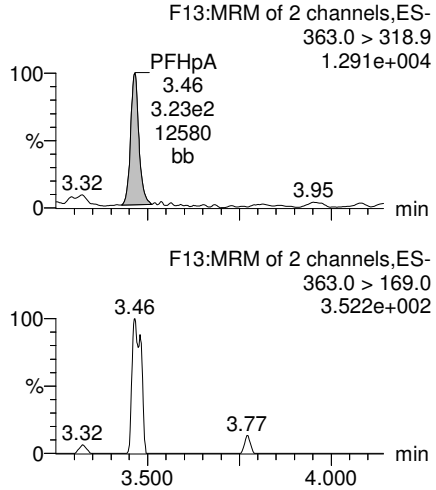

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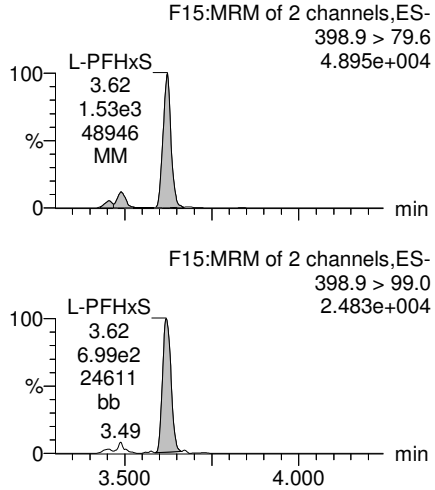

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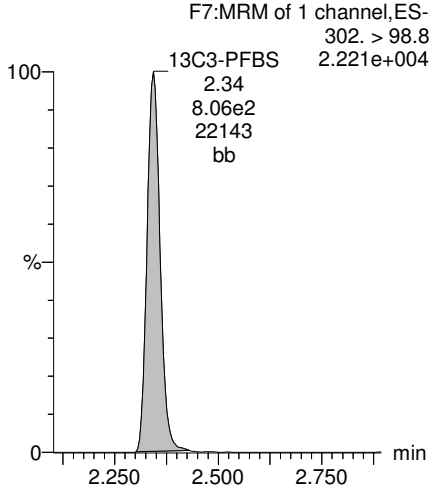

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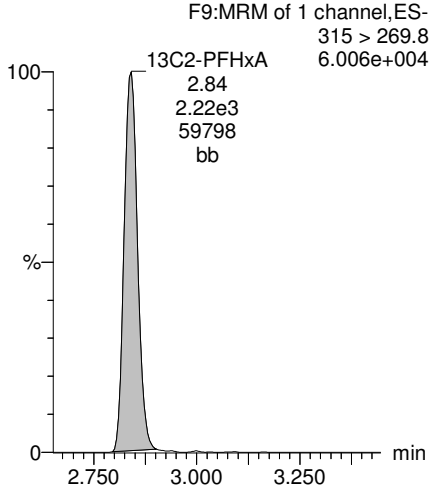

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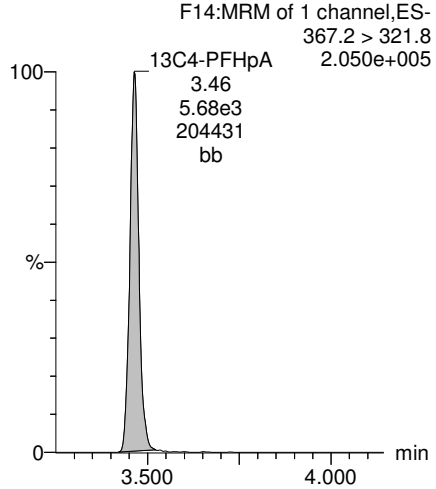

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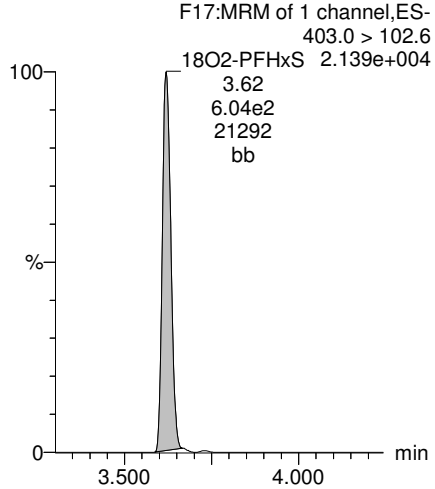

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-61.qld

Last Altered: Monday, November 27, 2017 10:46:35 Pacific Standard Time
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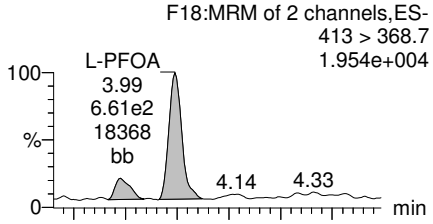
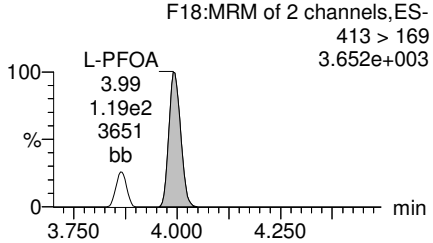
Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

Total PFOA





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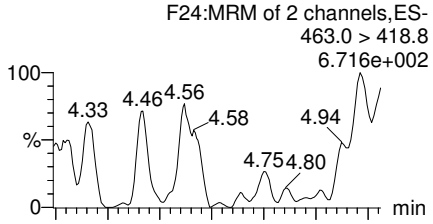

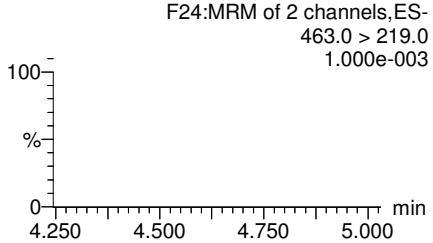

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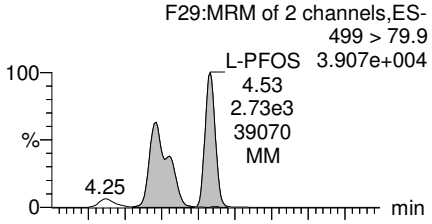

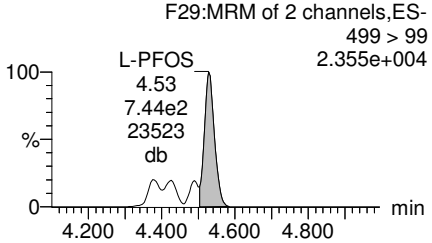

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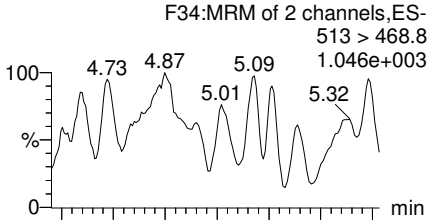

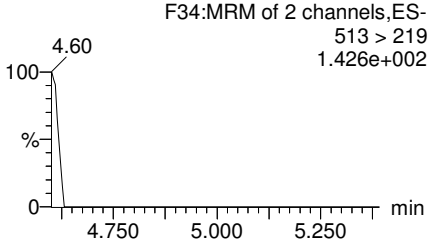

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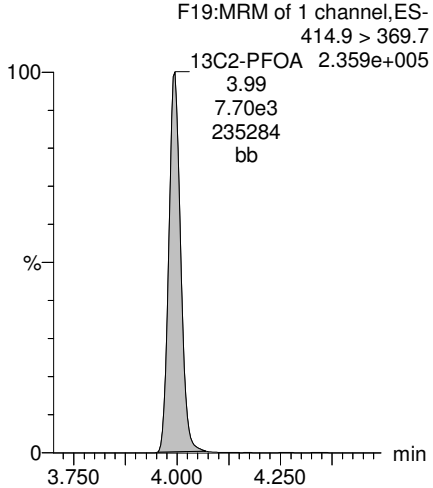

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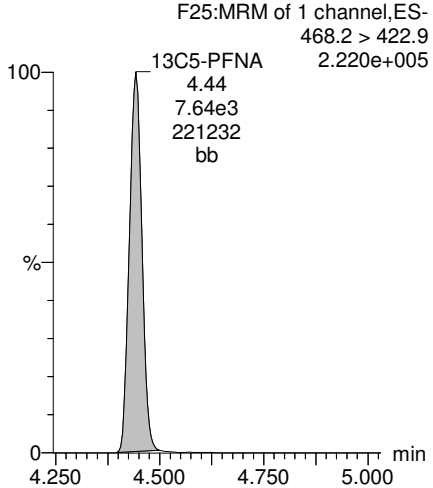

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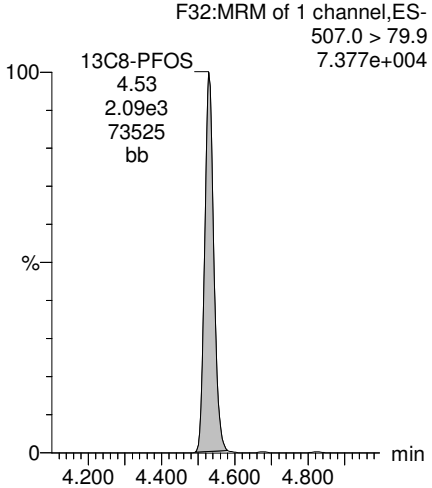

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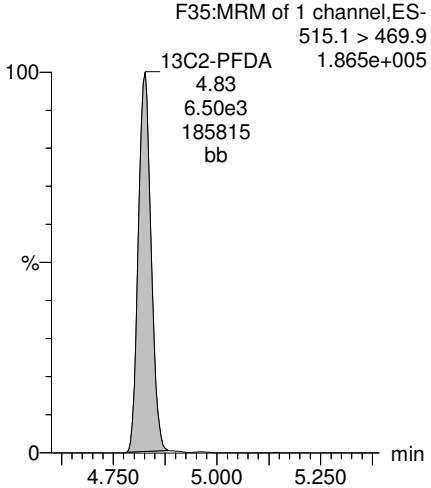

MJT11/27/2017

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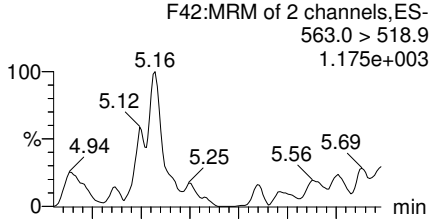
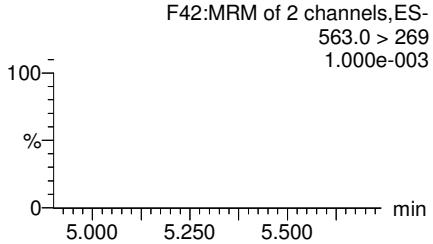
Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

PFUdA





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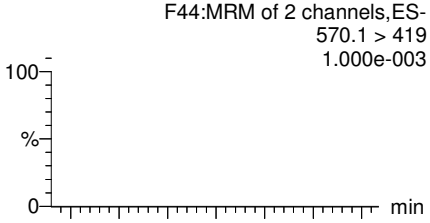

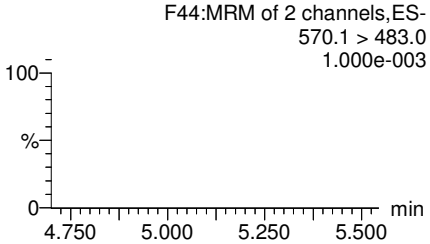

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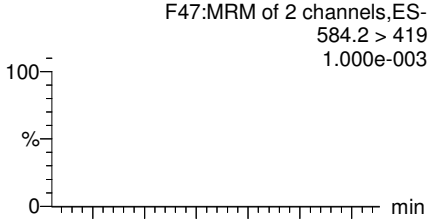

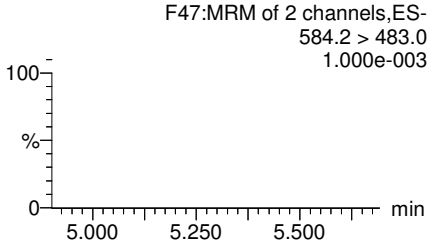

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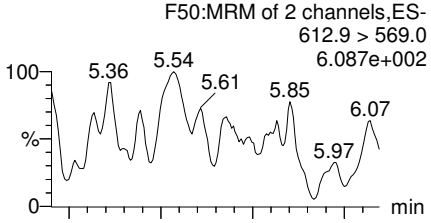
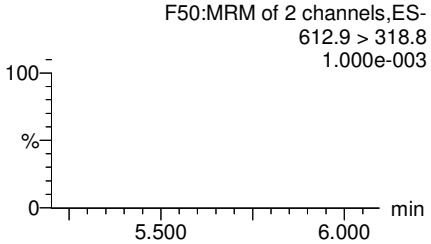
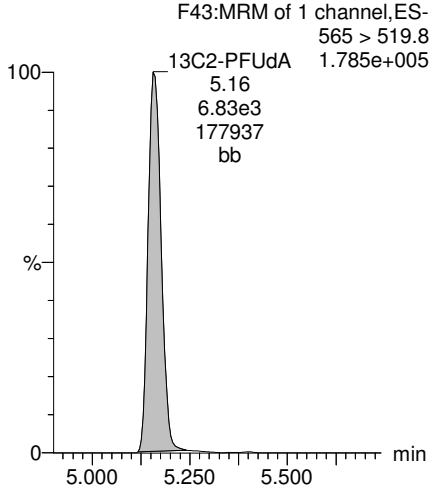
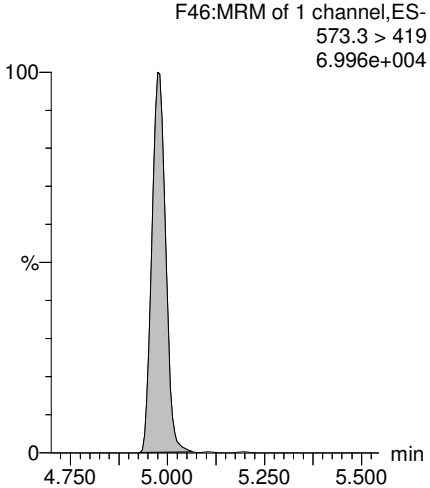




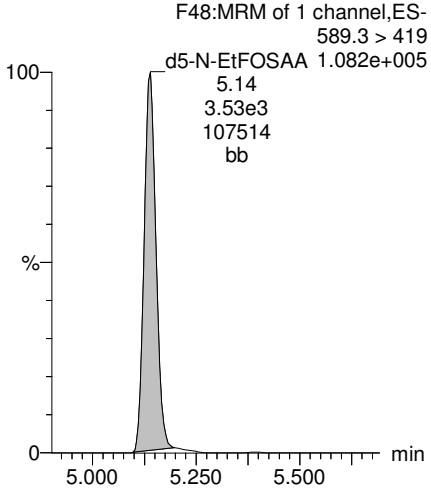
13C2-PFUdA



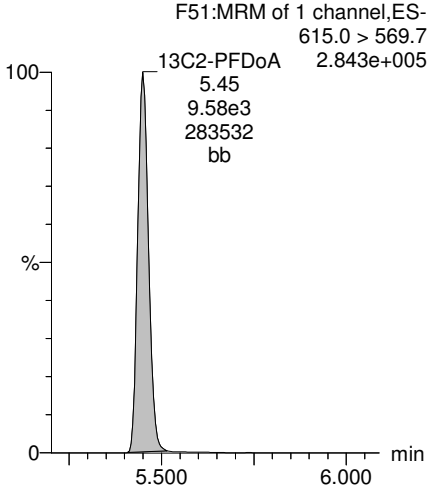
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



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Dataset: U:\Q4.PRO\results\171101M2\171101M2-61.qld

Last Altered: Monday, November 27, 2017 10:46:35 Pacific Standard Time
Printed: Monday, November 27, 2017 10:48:26 Pacific Standard Time

Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

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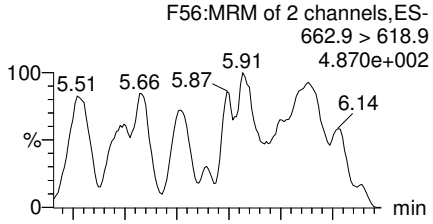

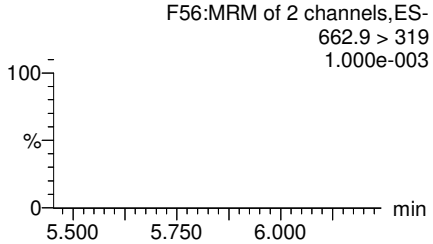

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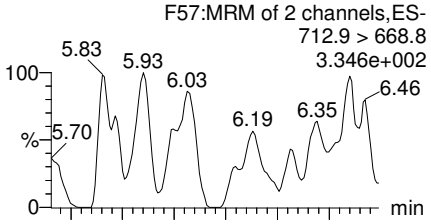

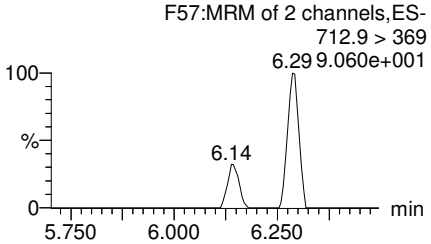

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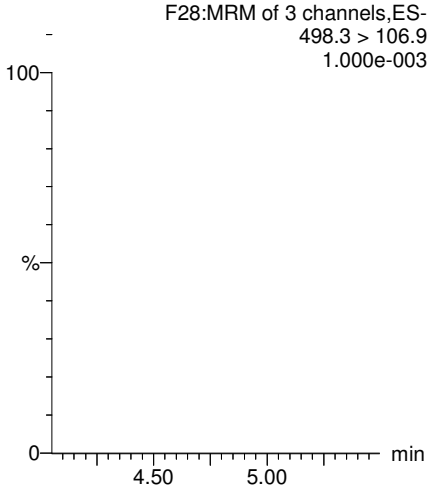
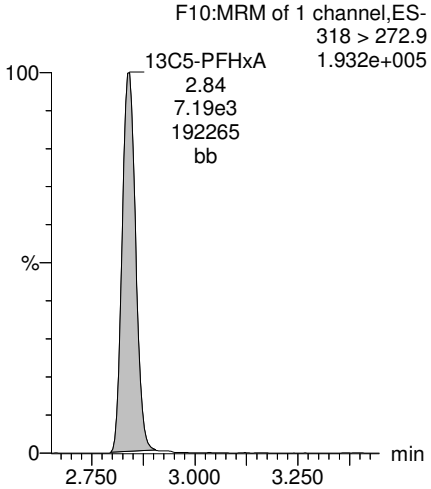


13C5-PFHxA



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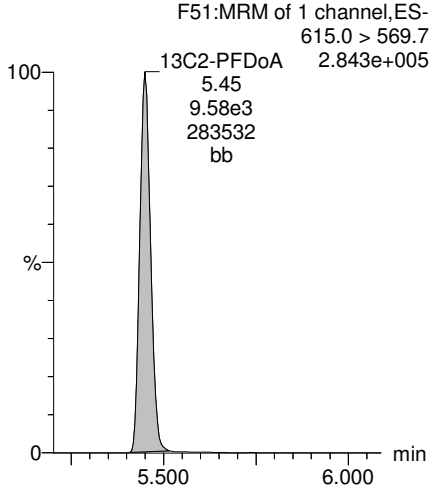

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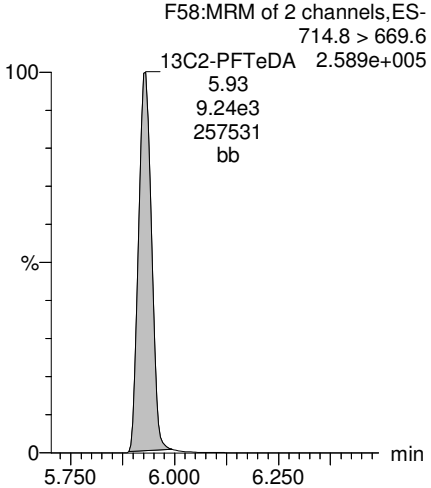
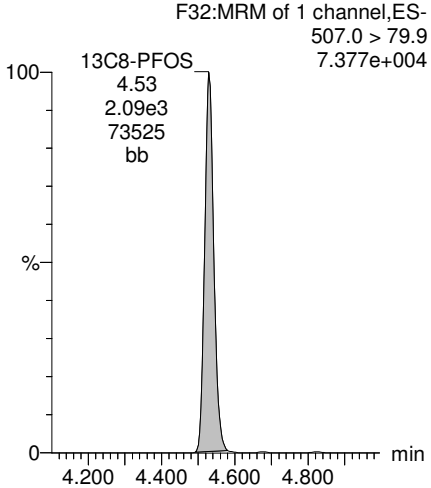


13C8-PFOS



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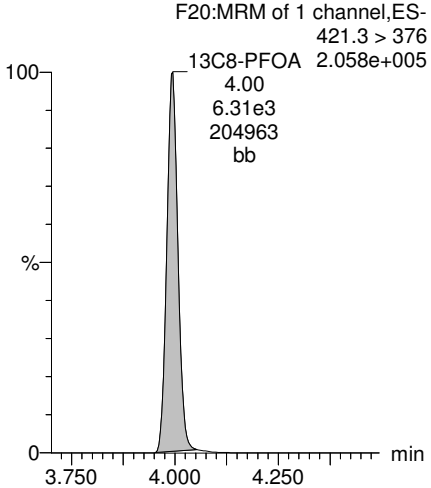

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-61.qld

Last Altered: Monday, November 27, 2017 10:46:35 Pacific Standard Time
Printed: Monday, November 27, 2017 10:48:26 Pacific Standard Time

Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

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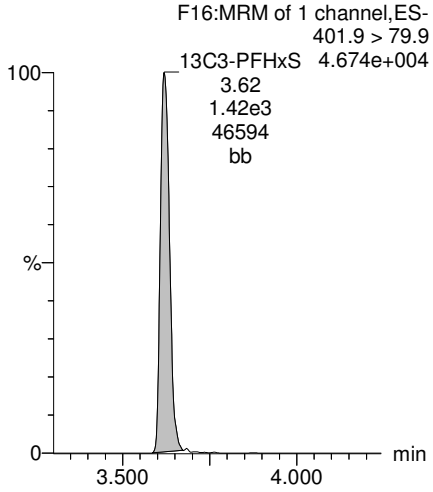

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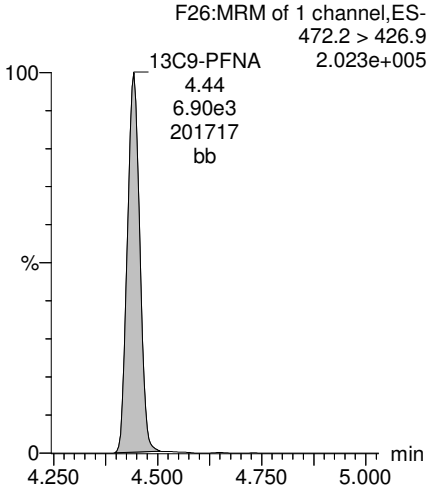

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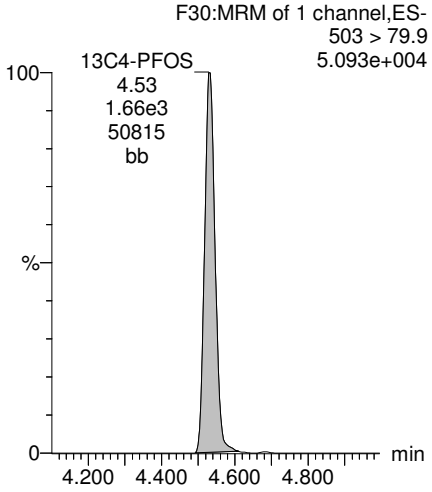

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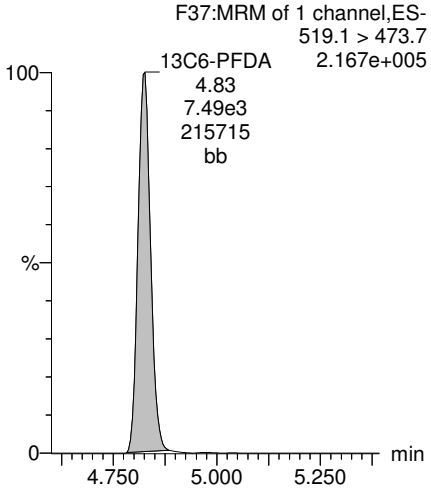
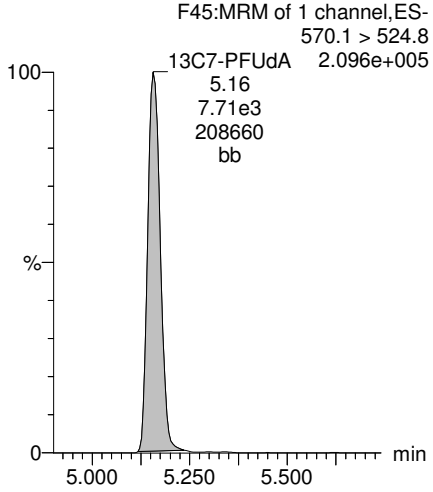


13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:56:59 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.67e2	0.11618		2.44				
2	4	PFHxA	313.2 > 268.9		2.72e3	0.11618		2.93				
3	5	PFHpA	363.0 > 318.9		6.17e3	0.11618		3.56				
4	6	L-PFHxS	398.9 > 79.6	1.66e0	6.66e2	0.11618		3.71	3.61	0.0312		
5	9	L-PFOA	413 > 368.7	1.24e2	8.50e3	0.11618		4.05	3.99	0.182		
6	12	PFNA	463.0 > 418.8		6.62e3	0.11618		4.55				
7	14	L-PFOS	499 > 79.9		1.86e3	0.11618		4.63				
8	16	PFDA	513 > 468.8		6.48e3	0.11618		4.92				
9	18	N-MeFOSAA	570.1 > 419		3.48e3	0.11618		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.08e3	0.11618		5.24				
11	20	PFUdA	563.0 > 518.9		8.07e3	0.11618		5.25				
12	22	PFDoA	612.9 > 569.0		6.79e3	0.11618		5.55				

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:57:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	4	PFHxA	313.2 > 268.9		2.72e3	0.11618		2.93				
2	25	PFTeDA	712.9 > 668.8		8.60e3	0.11618		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.53e3	5.85e3	0.11618	0.884	1.17	1.08	11.8	115.107	107.0
4	32	13C3-PFPeA	266. > 221.8	6.31e3	8.36e3	0.11618	0.727	2.15	2.05	9.44	111.709	103.8
5	33	13C3-PFBS	302. > 98.8	7.67e2	8.36e3	0.11618	0.083	2.44	2.34	1.15	119.100	110.7
6	34	13C2-PFHxA	315 > 269.8	2.72e3	8.36e3	0.11618	0.703	2.93	2.84	4.07	49.838	115.8
7	35	13C4-PFHpA	367.2 > 321.8	6.17e3	8.36e3	0.11618	0.656	3.56	3.46	9.22	120.865	112.3
8	36	18O2-PFHxS	403.0 > 102.6	6.66e2	1.43e3	0.11618	0.408	3.71	3.62	5.80	122.453	113.8
9	37	13C2-6:2 FTS	429.1 > 408.9	1.67e3	6.55e3	0.11618	0.243	4.03	3.94	3.18	112.377	104.4
10	38	13C2-PFOA	414.9 > 369.7	8.50e3	6.55e3	0.11618	1.076	4.05	3.99	16.2	129.685	120.5
11	39	13C5-PFNA	468.2 > 422.9	6.62e3	6.44e3	0.11618	0.914	4.55	4.43	12.8	120.924	112.4
12	40	13C8-PFOSA	506.1 > 77.7	1.34e3	9.13e3	0.11618	0.211	4.59	4.49	1.84	74.902	69.6
13	41	13C8-PFOS	507.0 > 79.9	1.86e3	1.73e3	0.11618	0.982	4.63	4.53	13.5	118.184	109.8
14	42	13C2-PFDA	515.1 > 469.9	6.48e3	7.98e3	0.11618	0.891	4.92	4.82	10.2	98.134	91.2
15	43	13C2-8:2 FTS	529.1 > 508.7	1.64e3	7.98e3	0.11618	0.198	4.89	4.79	2.57	111.563	103.7
16	44	d3-N-MeFOSAA	573.3 > 419	3.48e3	9.13e3	0.11618	0.361	5.08	4.98	4.76	113.570	105.6
17	45	d5-N-EtFOSAA	589.3 > 419	3.08e3	9.13e3	0.11618	0.394	5.24	5.14	4.22	92.217	85.7
18	46	13C2-PFUdA	565 > 519.8	8.07e3	9.13e3	0.11618	0.966	5.25	5.15	11.0	98.340	91.4
19	47	13C2-PFDoA	615.0 > 569.7	6.79e3	9.13e3	0.11618	0.989	5.55	5.45	9.29	80.886	75.2
20	49	13C2-PFTeDA	714.8 > 669.6	8.60e3	9.13e3	0.11618	0.927	6.02	5.93	11.8	109.336	101.6
21	54	13C4-PFBA	217. > 171.8	5.85e3	5.85e3	0.11618	1.000	1.17	1.08	12.5	107.592	100.0
22	55	13C5-PFHxA	318 > 272.9	8.36e3	8.36e3	0.11618	1.000	2.93	2.84	12.5	107.592	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.43e3	1.43e3	0.11618	1.000	3.71	3.62	12.5	107.592	100.0
24	57	13C8-PFOA	421.3 > 376	6.55e3	6.55e3	0.11618	1.000	4.05	3.99	12.5	107.592	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.44e3	6.44e3	0.11618	1.000	4.55	4.44	12.5	107.592	100.0
26	59	13C4-PFOS	503 > 79.9	1.73e3	1.73e3	0.11618	1.000	4.63	4.53	12.5	107.592	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.98e3	7.98e3	0.11618	1.000	4.92	4.82	12.5	107.592	100.0
28	61	13C7-PFUdA	570.1 > 524.8	9.13e3	9.13e3	0.11618	1.000	5.25	5.16	12.5	107.592	100.0
29	62	Total PFHxS	398.9 > 79.6	1.66e0	6.66e2	0.11618		3.71		0.000		
30	63	Total PFOA	413 > 368.7	1.24e2	8.50e3	0.11618		4.05		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	1.86e3	0.11618		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.48e3	0.11618		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:57:31 Pacific Standard Time

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.08e3	0.11618		5.24		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:57:31 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

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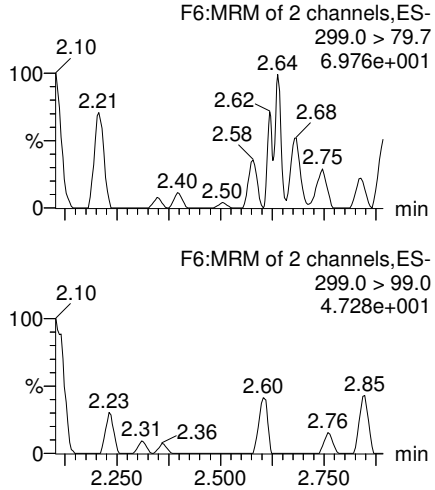

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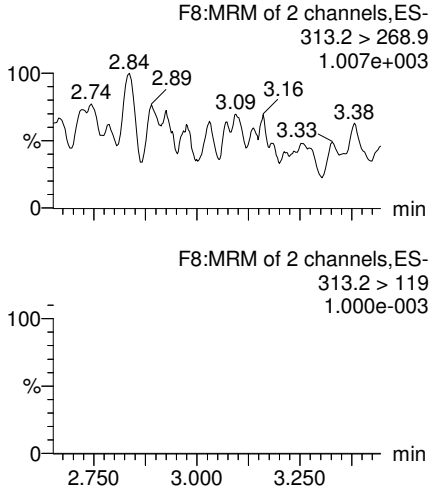

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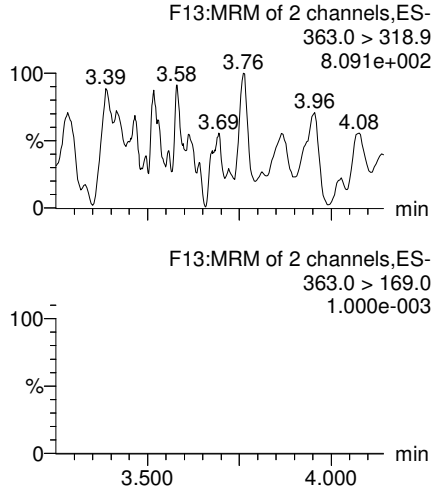

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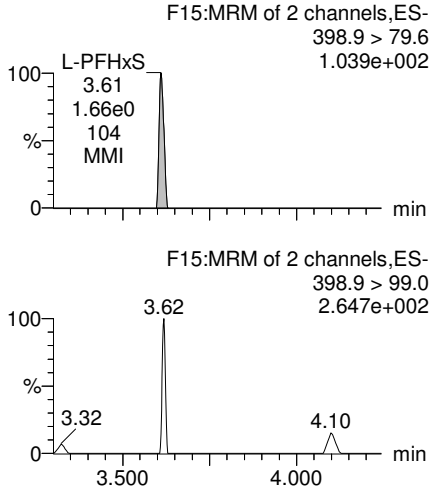
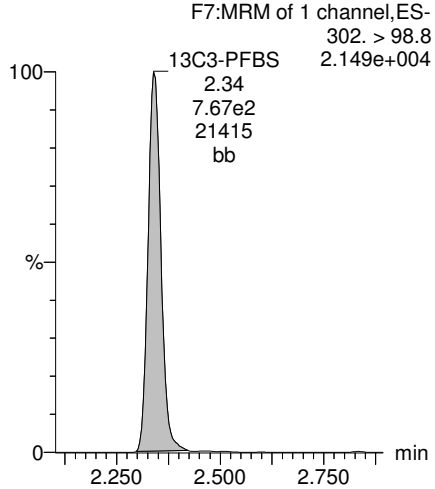
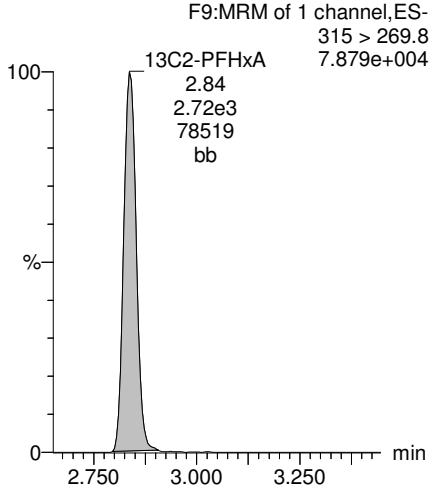


13C3-PFBS



13C2-PFHxA



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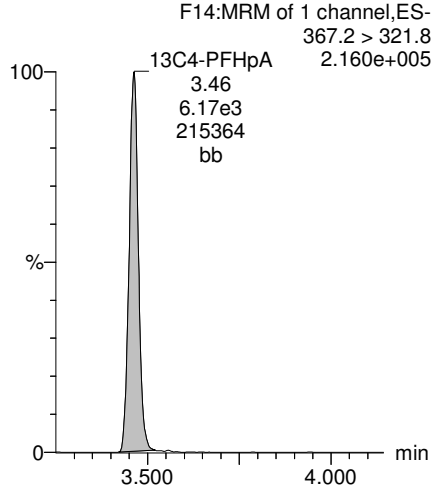

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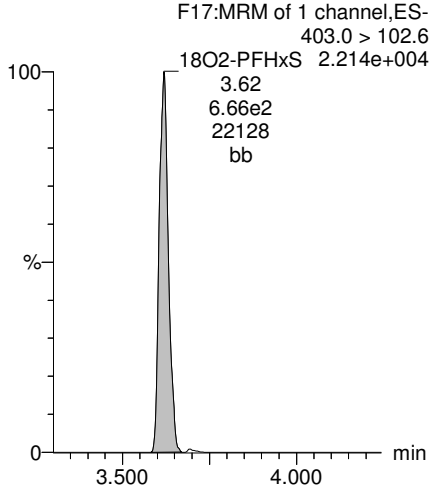

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
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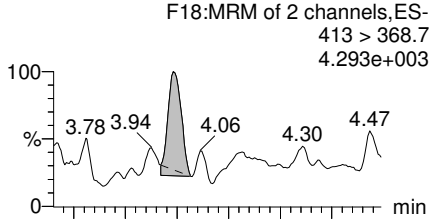
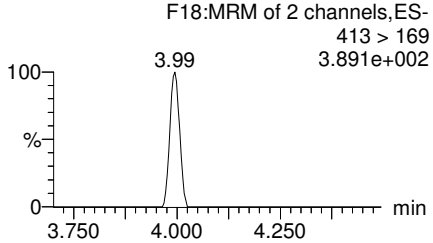
Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

Total PFOA





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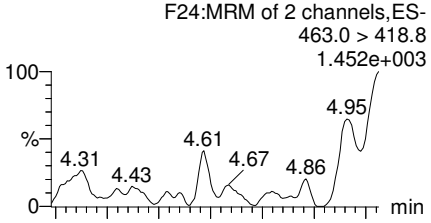
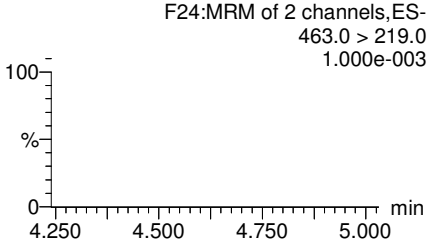
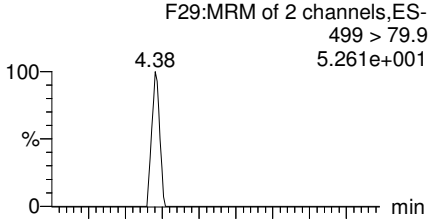
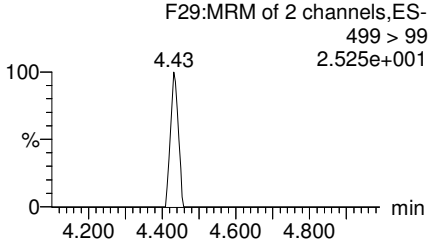




Total PFOS





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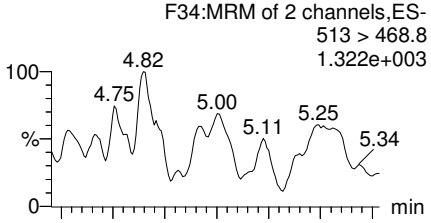
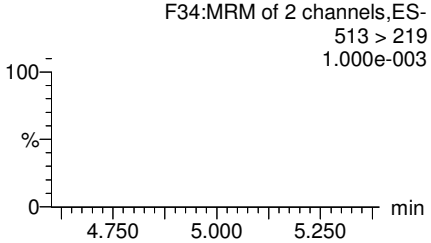
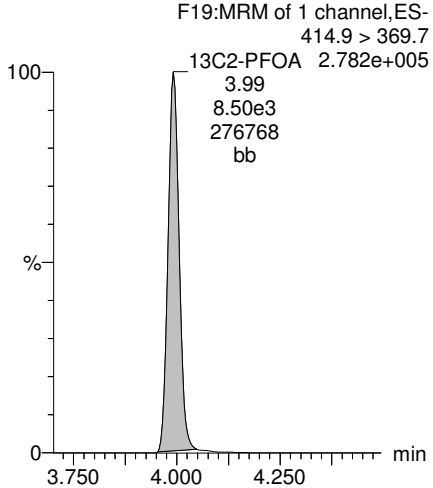




13C2-PFOA



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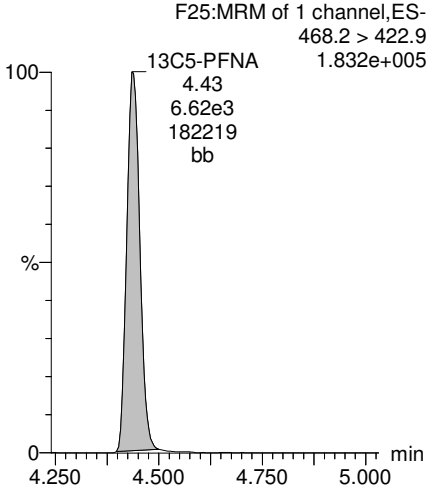
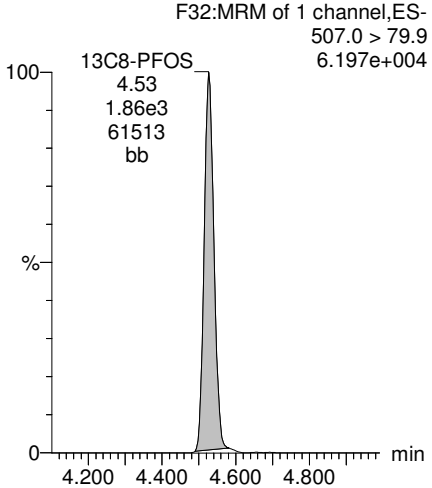


13C8-PFOS



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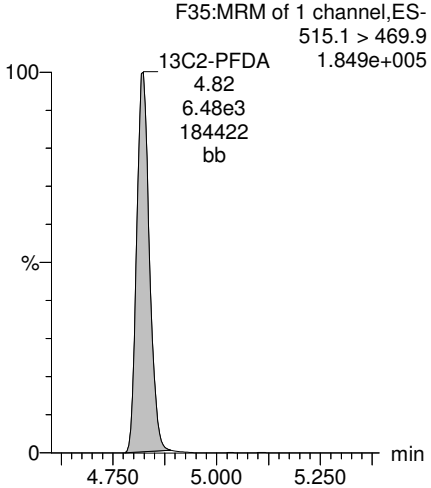


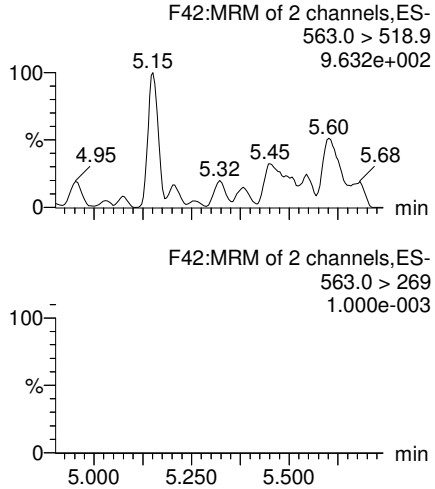
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

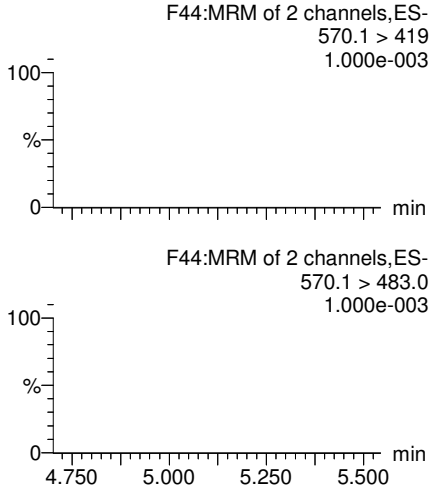
Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:57:31 Pacific Standard Time

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

PFUdA



N-MeFOSAA



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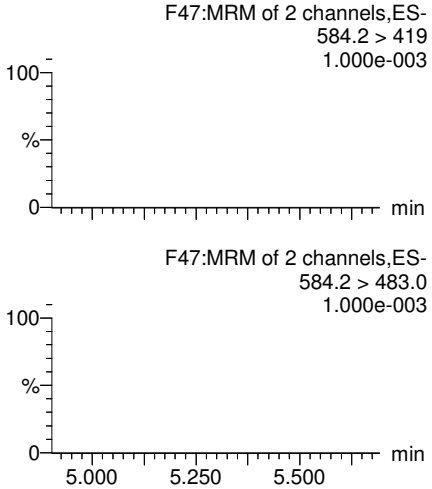
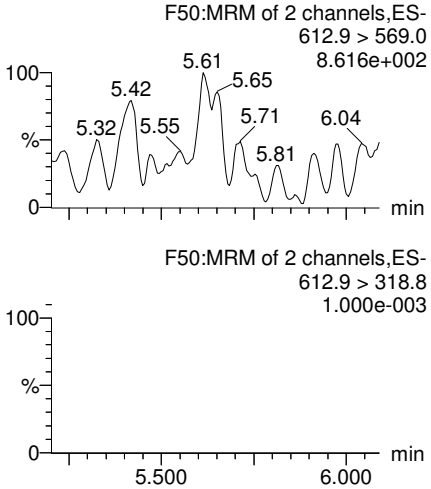


PFDoA



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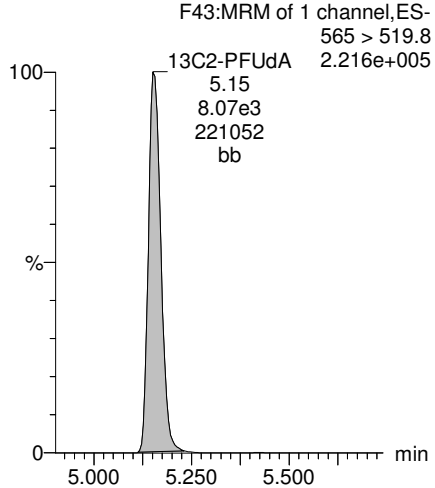
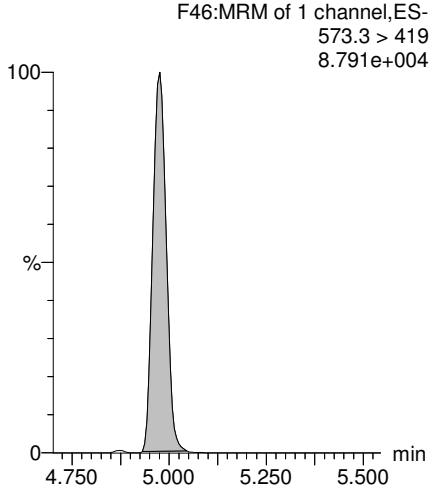


d3-N-MeFOSAA



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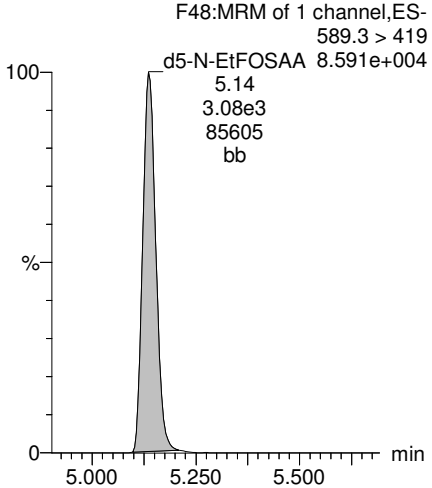
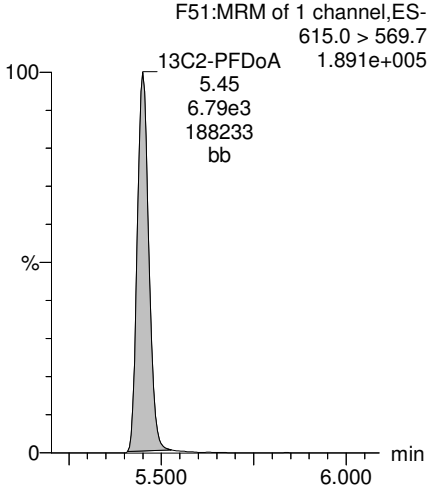


13C2-PFDoA



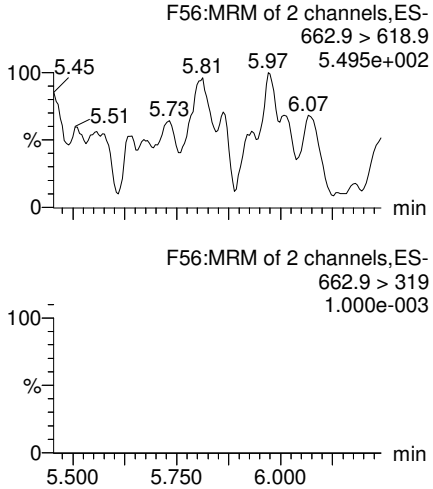
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:57:31 Pacific Standard Time

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

PFTrDA



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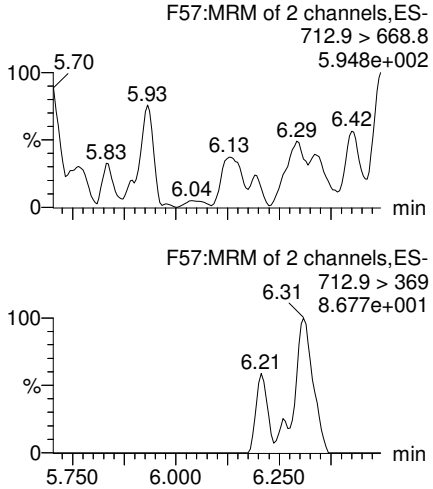

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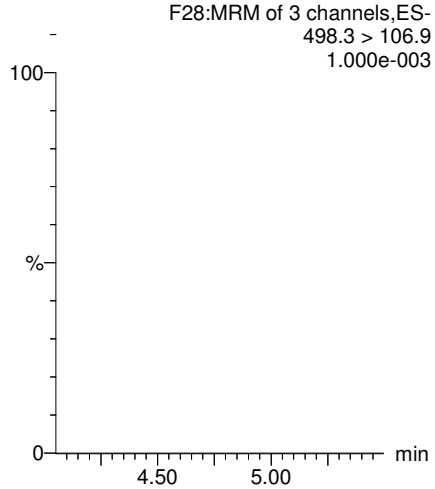

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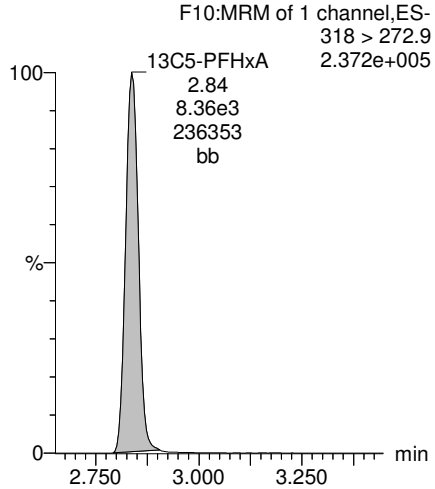

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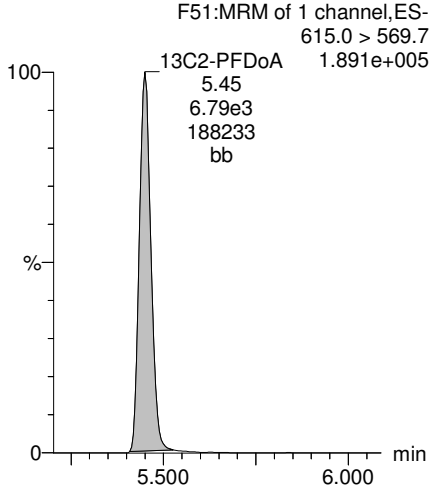

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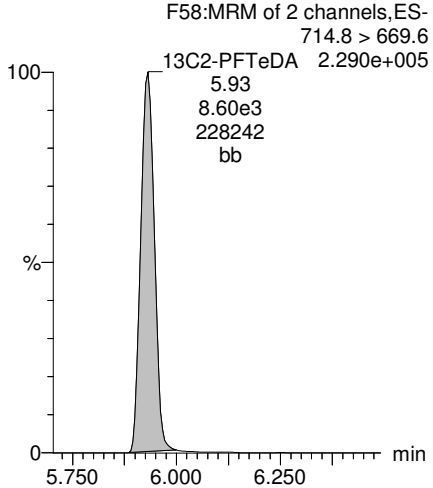
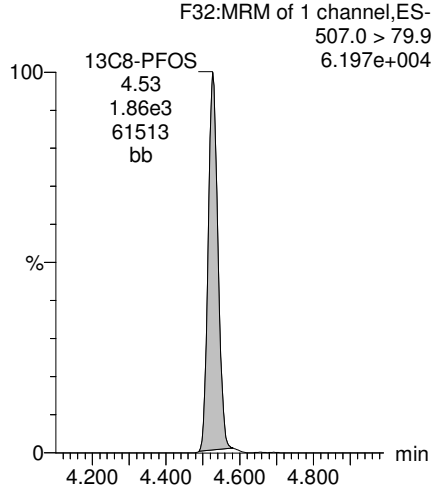
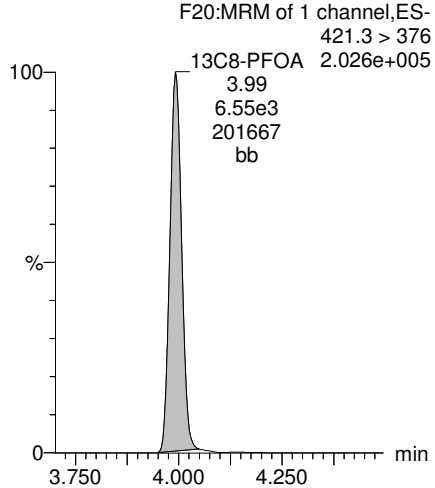


13C8-PFOS



13C8-PFOA



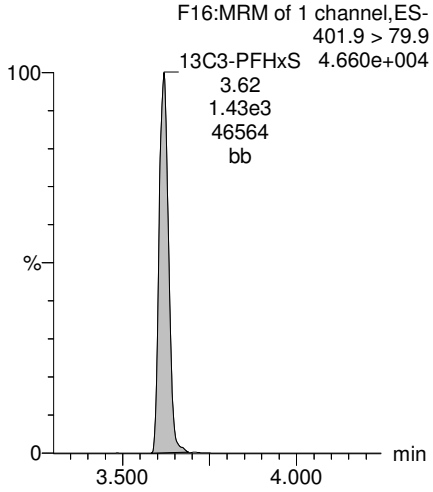
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-62.qld

Last Altered: Monday, November 27, 2017 10:56:07 Pacific Standard Time
Printed: Monday, November 27, 2017 10:57:31 Pacific Standard Time

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

13C3-PFHxS



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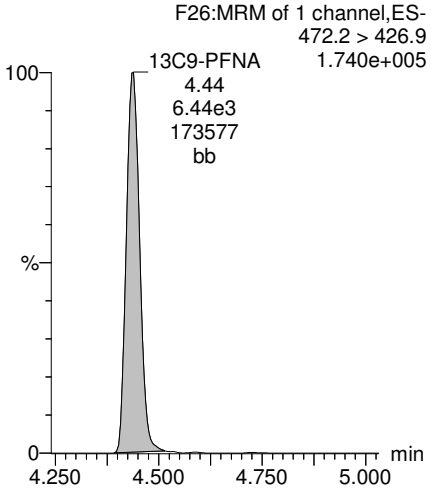
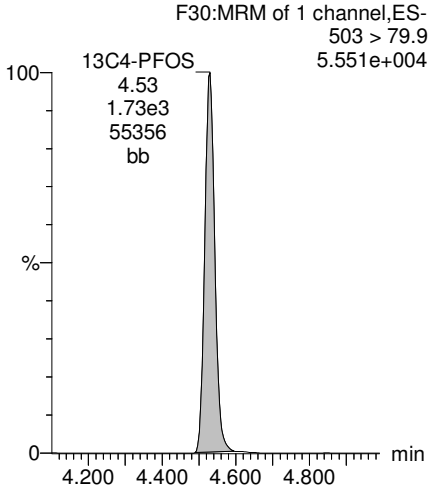
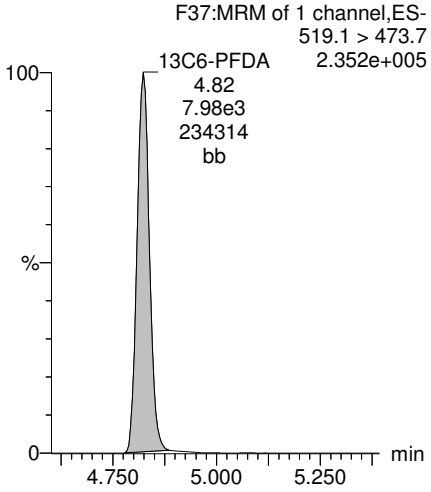


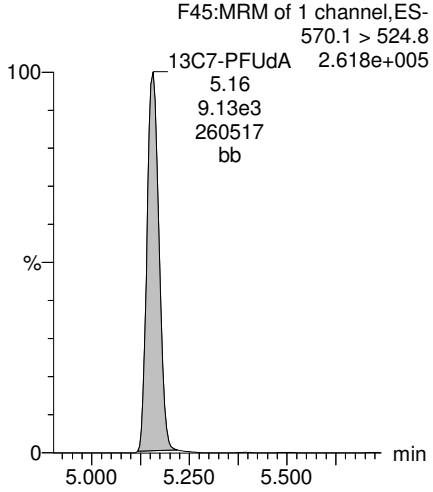
13C4-PFOS



13C6-PFDA



13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
Printed: Monday, November 27, 2017 11:50:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	5.10e1	7.62e2	0.11932		2.44	2.34	0.836	2.578	
2	4	PFHxA	313.2 > 268.9	4.46e2	2.18e3	0.11932		2.93	2.84	1.02	4.796	
3	5	PFHpA	363.0 > 318.9	8.19e1	5.22e3	0.11932		3.56	3.46	0.196	0.564	
4	6	L-PFHxS	398.9 > 79.6	3.79e2	6.19e2	0.11932		3.71	3.61	7.65	27.430	
5	9	L-PFOA	413 > 368.7	2.62e2	6.74e3	0.11932		4.05	3.99	0.486	1.579	
6	12	PFNA	463.0 > 418.8		5.59e3	0.11932		4.55				
7	14	L-PFOS	499 > 79.9	1.51e2	1.82e3	0.11932		4.63	4.38	1.04	7.957	
8	16	PFDA	513 > 468.8		6.33e3	0.11932		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.56e3	0.11932		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.10e3	0.11932		5.24				
11	20	PFUdA	563.0 > 518.9		6.22e3	0.11932		5.25				
12	22	PFDoA	612.9 > 569.0		6.89e3	0.11932		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
Printed: Monday, November 27, 2017 11:50:54 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		6.89e3	0.11932		5.80				
2	25	PFTeDA	712.9 > 668.8		9.89e3	0.11932		6.02				
3	31	13C3-PFBA	216.1 > 171.8	4.95e3	5.29e3	0.11932	0.884	1.17	1.09	11.7	110.799	105.8
4	32	13C3-PFPeA	266. > 221.8	5.30e3	7.12e3	0.11932	0.727	2.15	2.05	9.29	107.125	102.3
5	33	13C3-PFBS	302. > 98.8	7.62e2	7.12e3	0.11932	0.083	2.44	2.34	1.34	135.343	129.2
6	34	13C2-PFHxA	315 > 269.8	2.18e3	7.12e3	0.11932	0.703	2.93	2.84	3.82	45.559	108.7
7	35	13C4-PFHpA	367.2 > 321.8	5.22e3	7.12e3	0.11932	0.656	3.56	3.46	9.16	117.000	111.7
8	36	18O2-PFHxS	403.0 > 102.6	6.19e2	1.55e3	0.11932	0.408	3.71	3.61	5.00	102.797	98.1
9	37	13C2-6:2 FTS	429.1 > 408.9	1.78e3	5.07e3	0.11932	0.243	4.03	3.93	4.38	150.741	143.9
10	38	13C2-PFOA	414.9 > 369.7	6.74e3	5.07e3	0.11932	1.076	4.05	3.99	16.6	129.480	123.6
11	39	13C5-PFNA	468.2 > 422.9	5.59e3	6.70e3	0.11932	0.914	4.55	4.43	10.4	95.614	91.3
12	40	13C8-PFOSA	506.1 > 77.7	1.25e3	9.14e3	0.11932	0.211	4.59	4.49	1.71	67.900	64.8
13	41	13C8-PFOS	507.0 > 79.9	1.82e3	1.50e3	0.11932	0.982	4.63	4.52	15.2	129.711	123.8
14	42	13C2-PFDA	515.1 > 469.9	6.33e3	7.68e3	0.11932	0.891	4.92	4.82	10.3	96.851	92.4
15	43	13C2-8:2 FTS	529.1 > 508.7	1.53e3	7.68e3	0.11932	0.198	4.89	4.79	2.50	105.556	100.8
16	44	d3-N-MeFOSAA	573.3 > 419	2.56e3	9.14e3	0.11932	0.361	5.08	4.98	3.51	81.445	77.7
17	45	d5-N-EtFOSAA	589.3 > 419	3.10e3	9.14e3	0.11932	0.394	5.24	5.14	4.24	90.225	86.1
18	46	13C2-PFUdA	565 > 519.8	6.22e3	9.14e3	0.11932	0.966	5.25	5.16	8.51	73.768	70.4
19	47	13C2-PFDoA	615.0 > 569.7	6.89e3	9.14e3	0.11932	0.989	5.55	5.45	9.42	79.814	76.2
20	49	13C2-PFTeDA	714.8 > 669.6	9.89e3	9.14e3	0.11932	0.927	6.02	5.93	13.5	122.391	116.8
21	54	13C4-PFBA	217. > 171.8	5.29e3	5.29e3	0.11932	1.000	1.17	1.09	12.5	104.760	100.0
22	55	13C5-PFHxA	318 > 272.9	7.12e3	7.12e3	0.11932	1.000	2.93	2.84	12.5	104.760	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.55e3	1.55e3	0.11932	1.000	3.71	3.61	12.5	104.760	100.0
24	57	13C8-PFOA	421.3 > 376	5.07e3	5.07e3	0.11932	1.000	4.05	3.99	12.5	104.760	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.70e3	6.70e3	0.11932	1.000	4.55	4.43	12.5	104.760	100.0
26	59	13C4-PFOS	503 > 79.9	1.50e3	1.50e3	0.11932	1.000	4.63	4.52	12.5	104.760	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.68e3	7.68e3	0.11932	1.000	4.92	4.82	12.5	104.760	100.0
28	61	13C7-PFUdA	570.1 > 524.8	9.14e3	9.14e3	0.11932	1.000	5.25	5.15	12.5	104.760	100.0
29	62	Total PFHxS	398.9 > 79.6	3.79e2	6.19e2	0.11932		3.71		7.65	27.430	
30	63	Total PFOA	413 > 368.7	3.28e2	6.74e3	0.11932		4.05		0.486	1.579	
31	64	Total PFOS	499 > 79.9	1.51e2	1.82e3	0.11932		4.63		1.04	7.957	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.56e3	0.11932		5.08		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
Printed: Monday, November 27, 2017 11:50:54 Pacific Standard Time

Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.10e3	0.11932		5.24		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

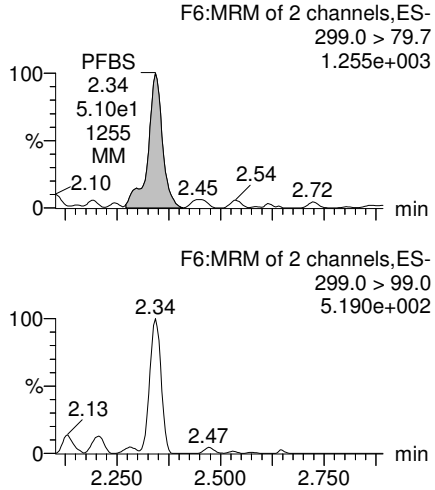
Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
Printed: Monday, November 27, 2017 11:50:54 Pacific Standard Time

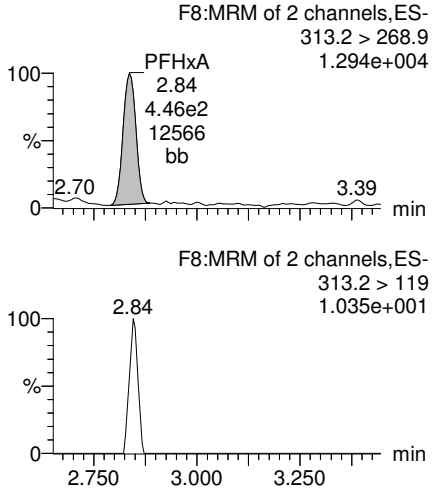
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

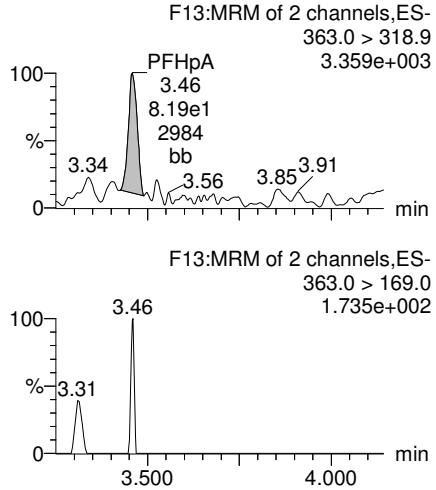
PFBS



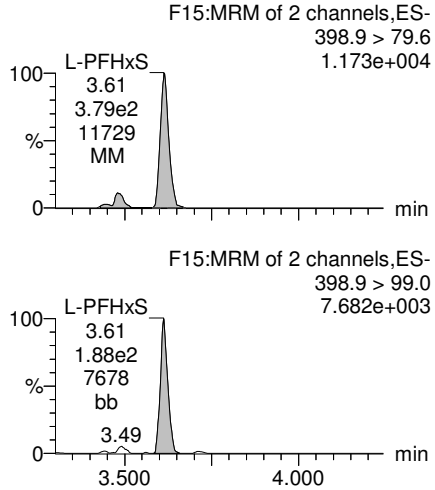
PFHxA



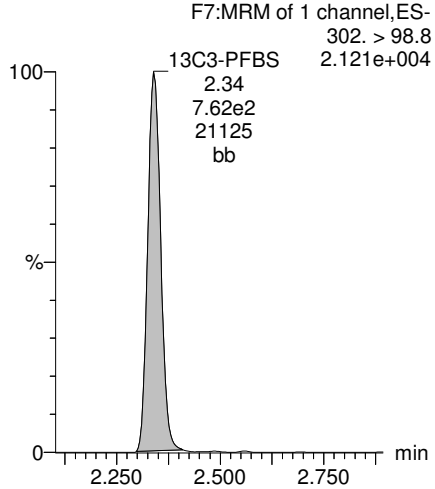
PFHpA



Total PFHxS



13C3-PFBS



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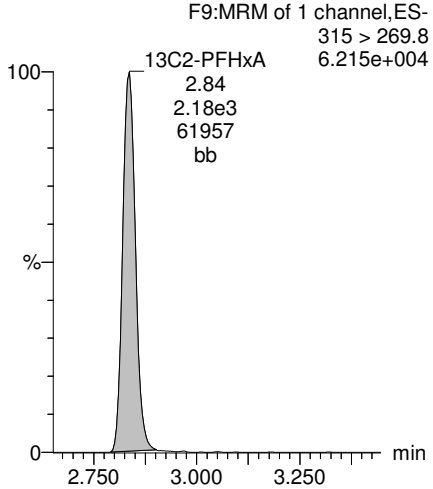

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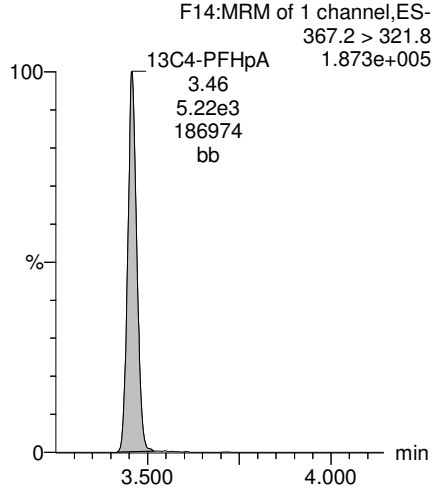

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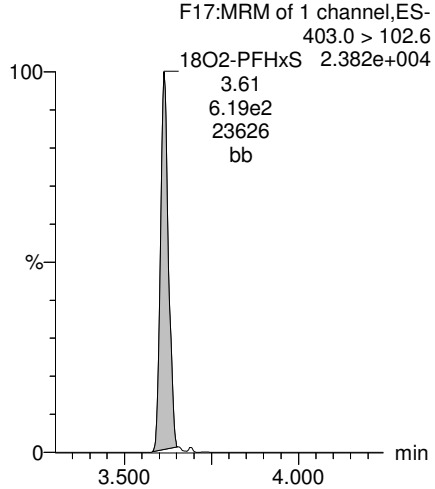


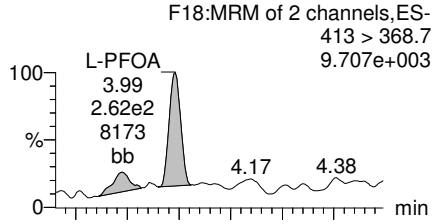
MJT11/27/2017

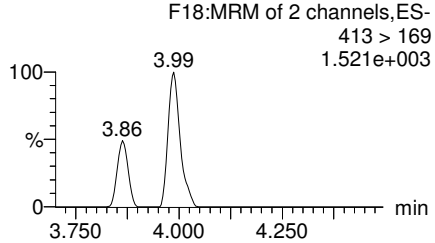
Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
Printed: Monday, November 27, 2017 11:50:54 Pacific Standard Time

Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

Total PFOA





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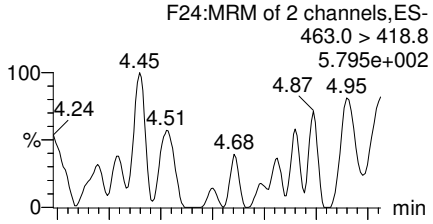

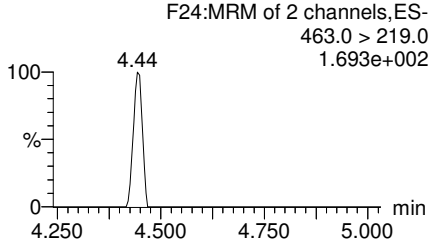

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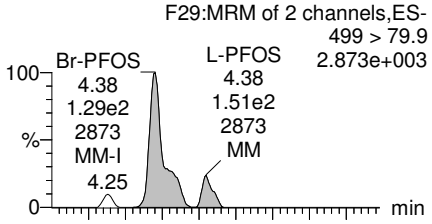

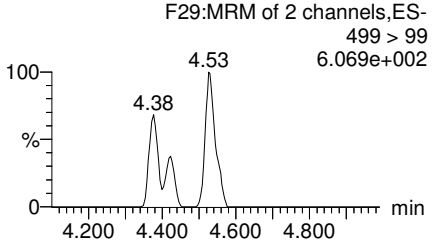

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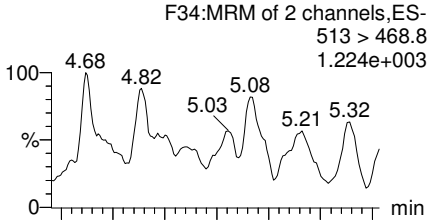
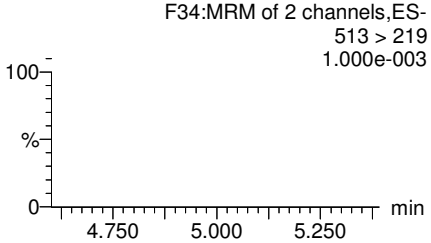
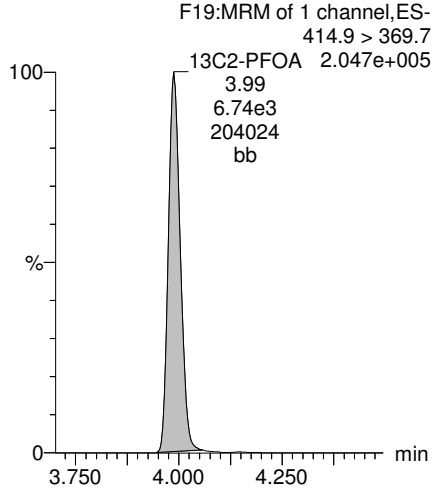




13C2-PFOA



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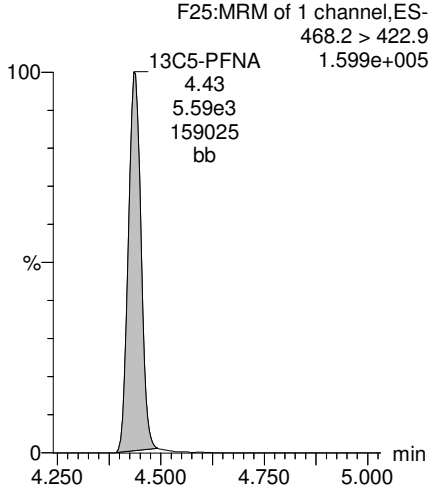

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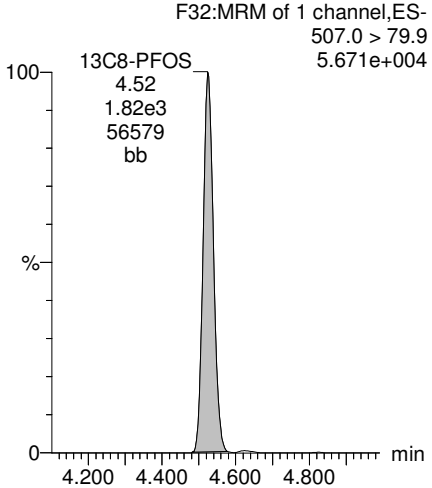

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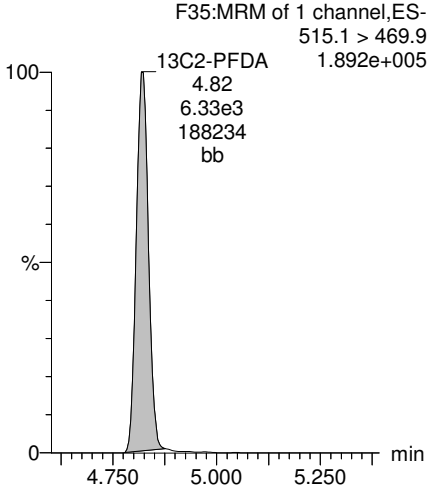


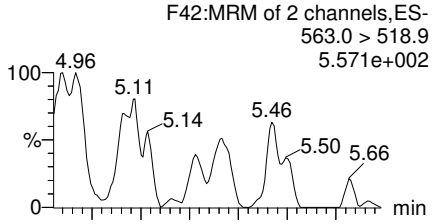
MJT11/27/2017

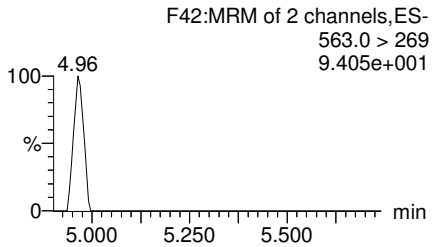
Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
Printed: Monday, November 27, 2017 11:50:54 Pacific Standard Time

Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

PFUdA





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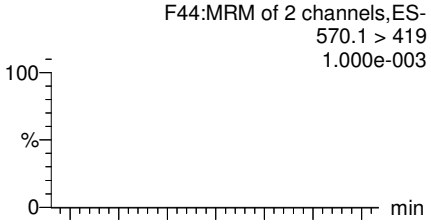

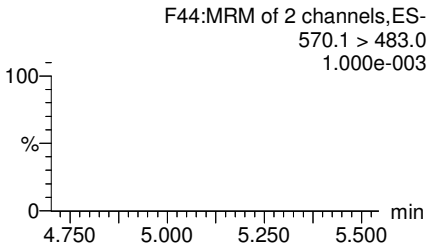

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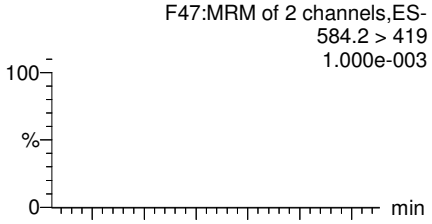

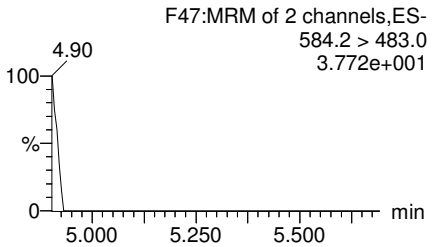

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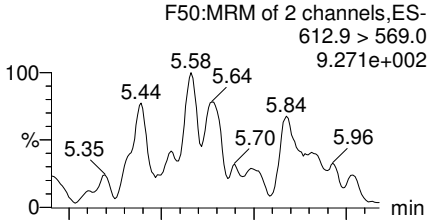

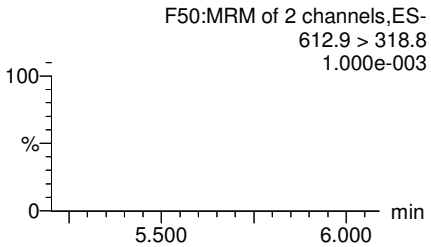

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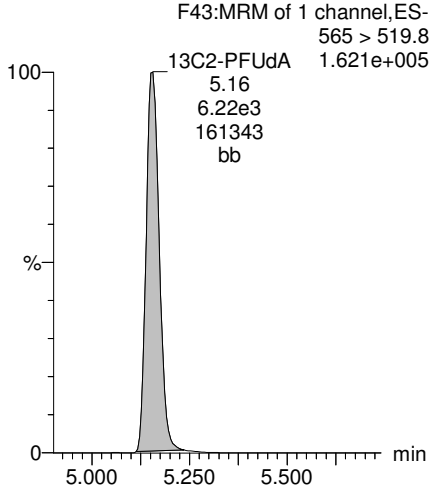
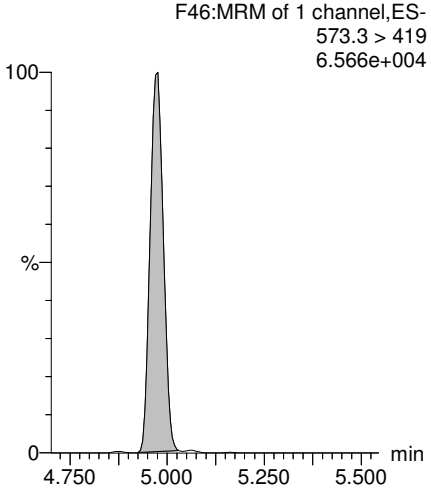


d3-N-MeFOSAA



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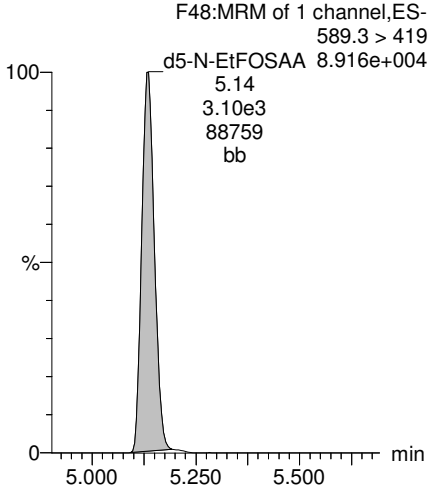

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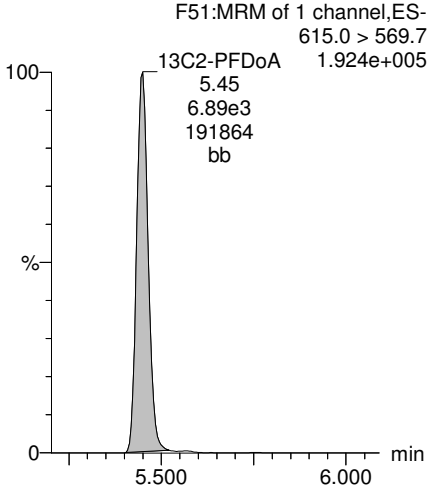

MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-63.qld

Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
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Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

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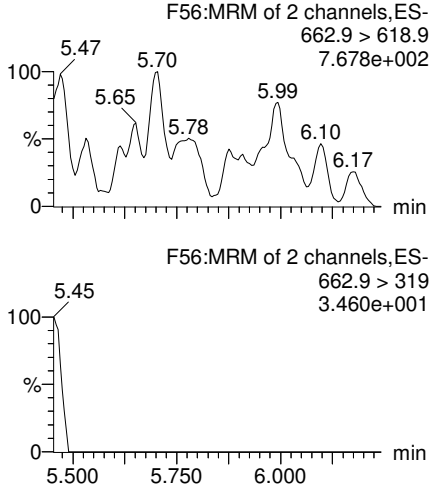

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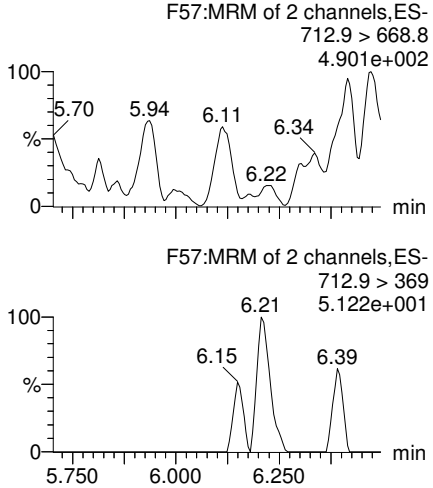

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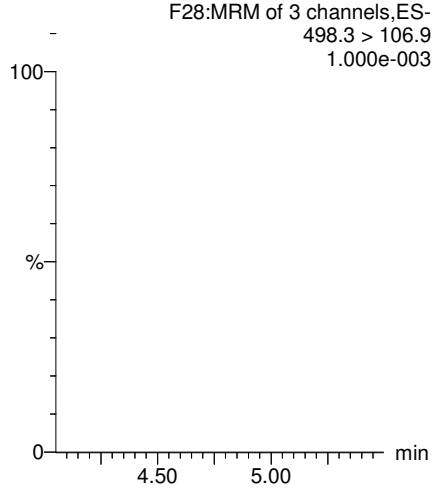

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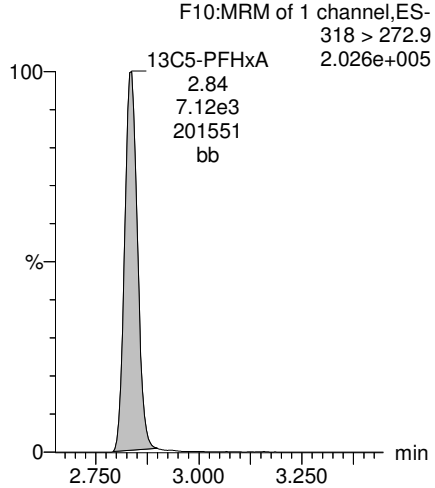

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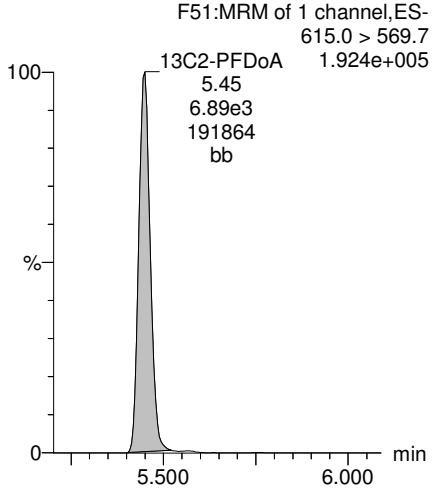

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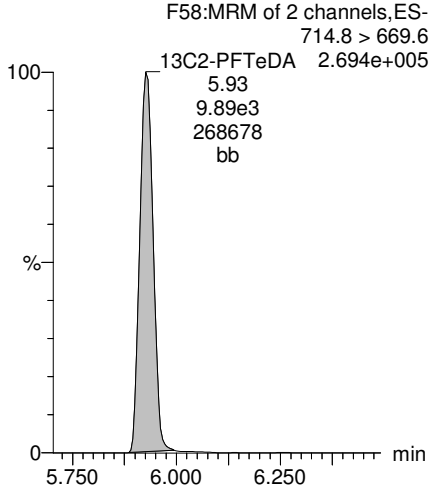

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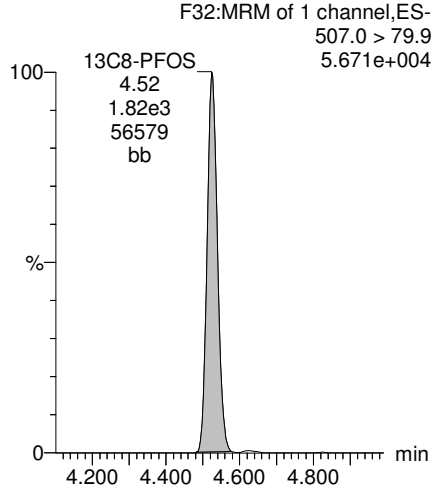

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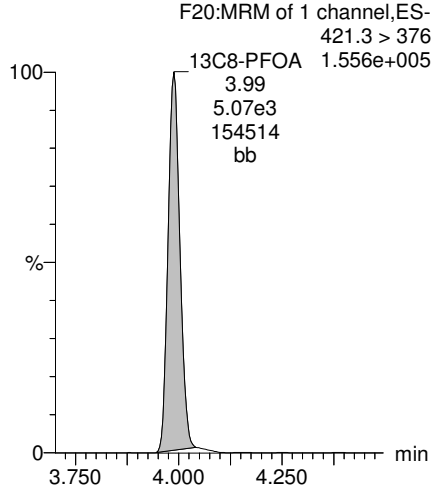

MJT11/27/2017

Rev'd: MM 11/27/17

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Last Altered: Monday, November 27, 2017 11:50:11 Pacific Standard Time
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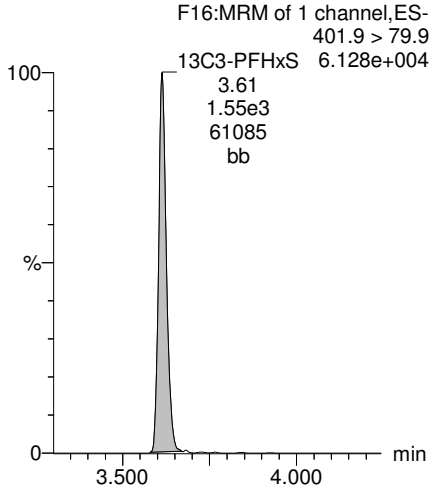
Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

13C3-PFHxS



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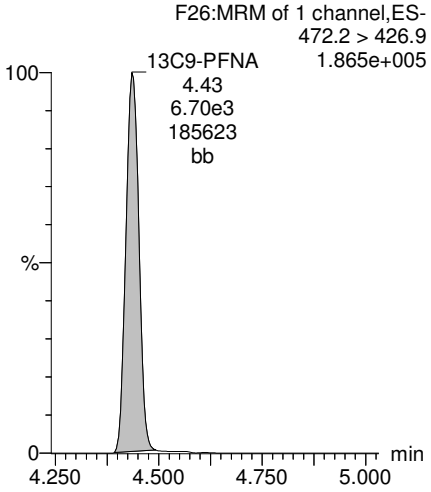

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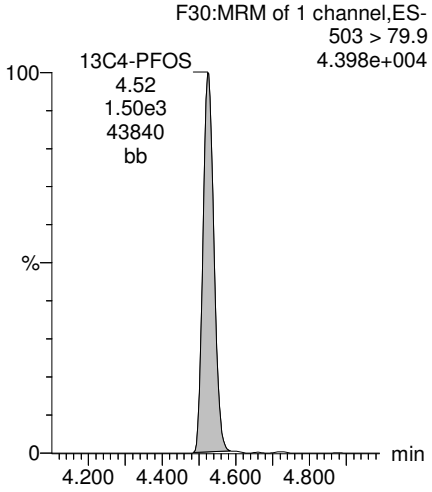

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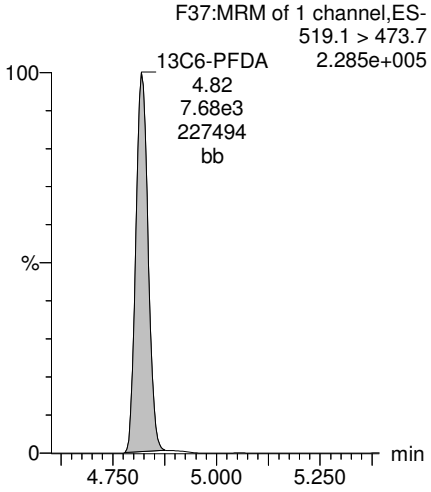

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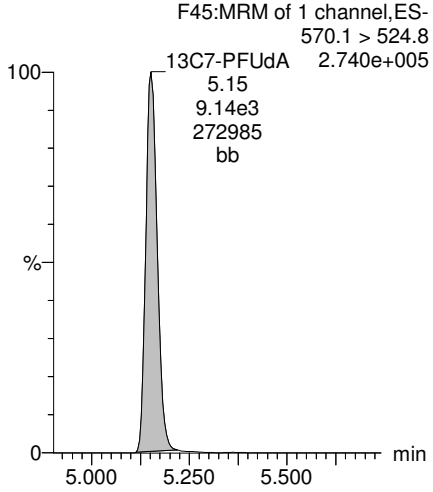

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

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Printed: Monday, November 27, 2017 11:12:36 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.77e2	0.11936		2.44				
2	4	PFHxA	313.2 > 268.9		2.22e3	0.11936		2.93				
3	5	PFHpA	363.0 > 318.9		4.80e3	0.11936		3.56				
4	6	L-PFHxS	398.9 > 79.6		6.43e2	0.11936		3.71				
5	9	L-PFOA	413 > 368.7	1.23e2	7.00e3	0.11936		4.05	3.99	0.220		
6	12	PFNA	463.0 > 418.8		6.19e3	0.11936		4.55				
7	14	L-PFOS	499 > 79.9		1.64e3	0.11936		4.63				
8	16	PFDA	513 > 468.8		5.31e3	0.11936		4.92				
9	18	N-MeFOSAA	570.1 > 419		2.38e3	0.11936		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.72e3	0.11936		5.24				
11	20	PFUdA	563.0 > 518.9		7.04e3	0.11936		5.25				
12	22	PFDoA	612.9 > 569.0		7.52e3	0.11936		5.55				

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
Printed: Monday, November 27, 2017 11:12:55 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		7.52e3	0.11936		5.80				
2	25	PFTeDA	712.9 > 668.8		9.23e3	0.11936		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.04e3	4.79e3	0.11936	0.884	1.17	1.09	13.2	124.804	119.2
4	32	13C3-PFPeA	266. > 221.8	5.56e3	6.44e3	0.11936	0.727	2.15	2.05	10.8	124.285	118.7
5	33	13C3-PFBS	302. > 98.8	7.77e2	6.44e3	0.11936	0.083	2.44	2.34	1.51	152.563	145.7
6	34	13C2-PFHxA	315 > 269.8	2.22e3	6.44e3	0.11936	0.703	2.93	2.84	4.32	51.464	122.9
7	35	13C4-PFHpA	367.2 > 321.8	4.80e3	6.44e3	0.11936	0.656	3.56	3.46	9.32	118.976	113.6
8	36	18O2-PFHxS	403.0 > 102.6	6.43e2	1.33e3	0.11936	0.408	3.71	3.61	6.04	124.056	118.5
9	37	13C2-6:2 FTS	429.1 > 408.9	1.63e3	5.51e3	0.11936	0.243	4.03	3.93	3.70	127.274	121.5
10	38	13C2-PFOA	414.9 > 369.7	7.00e3	5.51e3	0.11936	1.076	4.05	3.99	15.9	123.630	118.1
11	39	13C5-PFNA	468.2 > 422.9	6.19e3	6.16e3	0.11936	0.914	4.55	4.44	12.6	115.071	109.9
12	40	13C8-PFOSA	506.1 > 77.7	1.26e3	7.13e3	0.11936	0.211	4.59	4.49	2.22	88.007	84.0
13	41	13C8-PFOS	507.0 > 79.9	1.64e3	1.49e3	0.11936	0.982	4.63	4.53	13.8	117.595	112.3
14	42	13C2-PFDA	515.1 > 469.9	5.31e3	5.80e3	0.11936	0.891	4.92	4.82	11.4	107.529	102.7
15	43	13C2-8:2 FTS	529.1 > 508.7	1.34e3	5.80e3	0.11936	0.198	4.89	4.79	2.90	122.362	116.8
16	44	d3-N-MeFOSAA	573.3 > 419	2.38e3	7.13e3	0.11936	0.361	5.08	4.97	4.17	96.839	92.5
17	45	d5-N-EtFOSAA	589.3 > 419	2.72e3	7.13e3	0.11936	0.394	5.24	5.14	4.77	101.464	96.9
18	46	13C2-PFUdA	565 > 519.8	7.04e3	7.13e3	0.11936	0.966	5.25	5.16	12.3	107.004	102.2
19	47	13C2-PFDoA	615.0 > 569.7	7.52e3	7.13e3	0.11936	0.989	5.55	5.45	13.2	111.731	106.7
20	49	13C2-PFTeDA	714.8 > 669.6	9.23e3	7.13e3	0.11936	0.927	6.02	5.93	16.2	146.309	139.7
21	54	13C4-PFBA	217. > 171.8	4.79e3	4.79e3	0.11936	1.000	1.17	1.09	12.5	104.725	100.0
22	55	13C5-PFHxA	318 > 272.9	6.44e3	6.44e3	0.11936	1.000	2.93	2.83	12.5	104.725	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.33e3	1.33e3	0.11936	1.000	3.71	3.61	12.5	104.725	100.0
24	57	13C8-PFOA	421.3 > 376	5.51e3	5.51e3	0.11936	1.000	4.05	3.99	12.5	104.725	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.16e3	6.16e3	0.11936	1.000	4.55	4.43	12.5	104.725	100.0
26	59	13C4-PFOS	503 > 79.9	1.49e3	1.49e3	0.11936	1.000	4.63	4.53	12.5	104.725	100.0
27	60	13C6-PFDA	519.1 > 473.7	5.80e3	5.80e3	0.11936	1.000	4.92	4.82	12.5	104.725	100.0
28	61	13C7-PFUdA	570.1 > 524.8	7.13e3	7.13e3	0.11936	1.000	5.25	5.15	12.5	104.725	100.0
29	62	Total PFHxS	398.9 > 79.6	0.00e0	6.43e2	0.11936		3.71		0.000		
30	63	Total PFOA	413 > 368.7	1.23e2	7.00e3	0.11936		4.05		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	1.64e3	0.11936		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.38e3	0.11936		5.08		0.000		

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
Printed: Monday, November 27, 2017 11:12:55 Pacific Standard Time

Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.72e3	0.11936		5.24		0.000		

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Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
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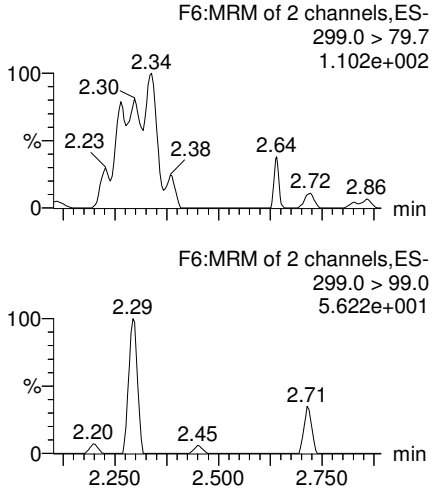
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

PFBS



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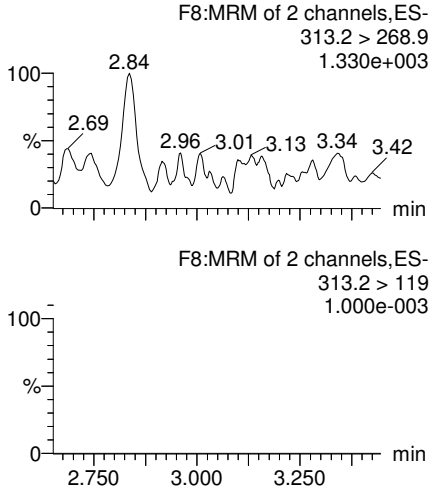

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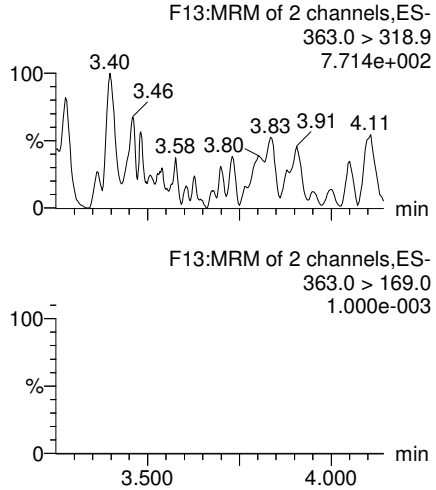

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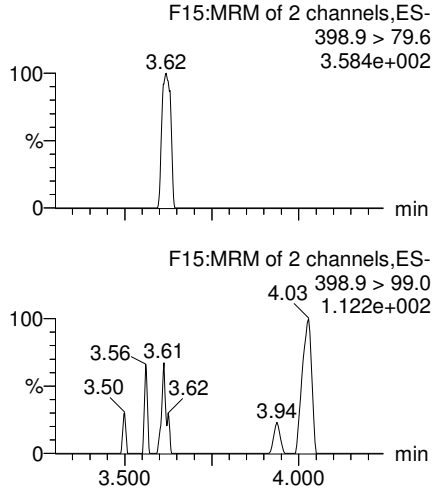

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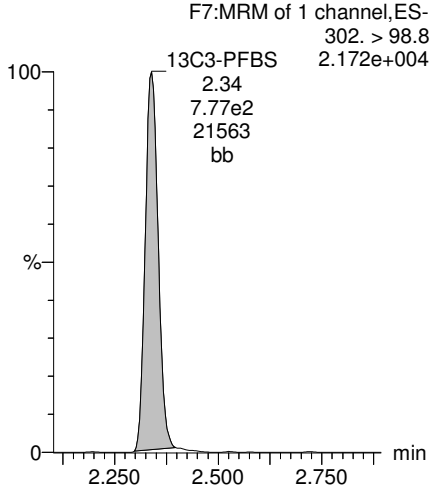

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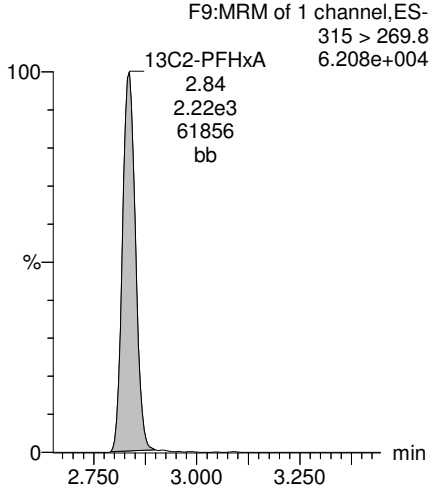

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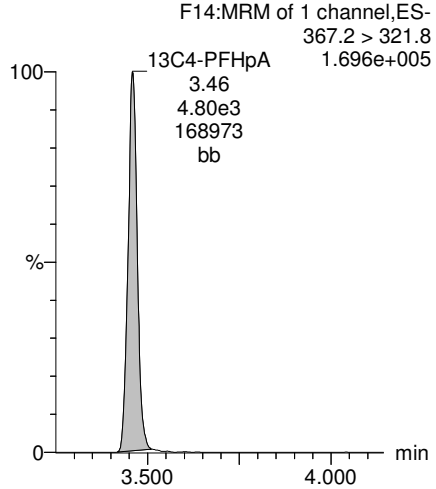

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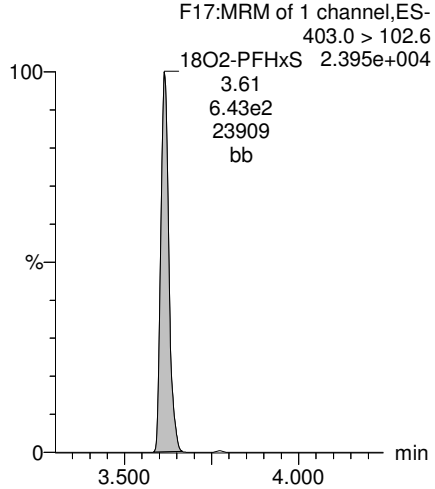

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
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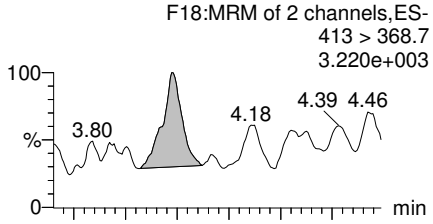
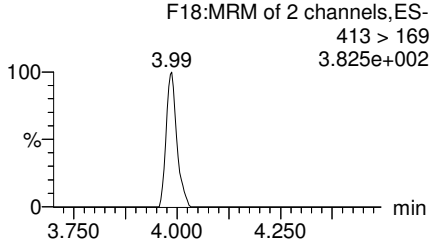
Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

Total PFOA





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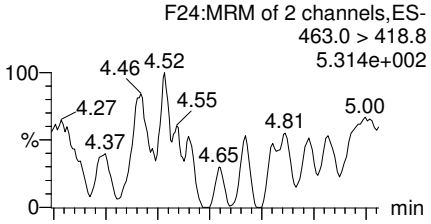

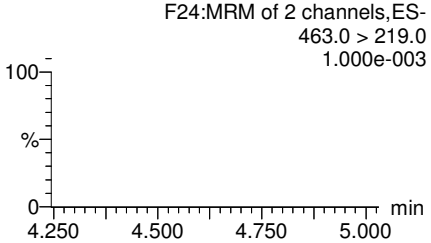

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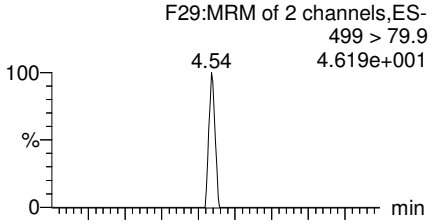

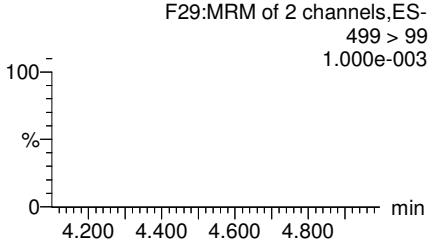

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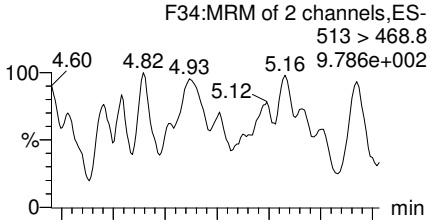

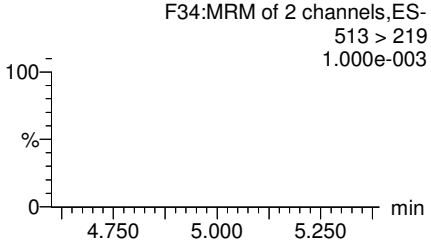

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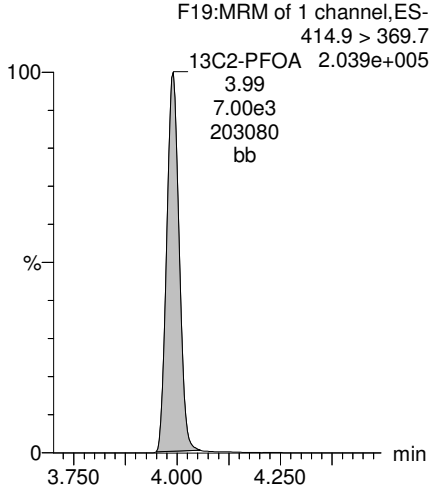

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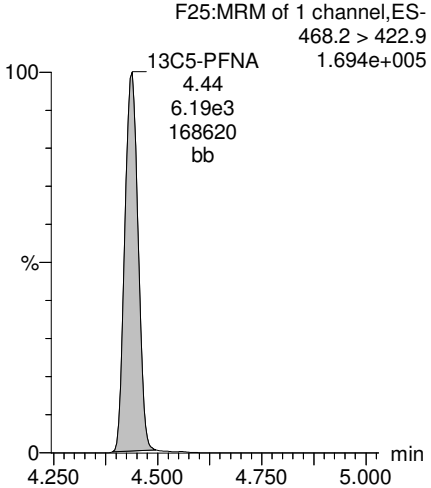

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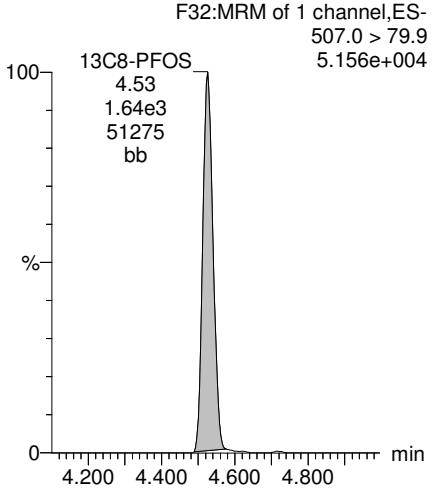

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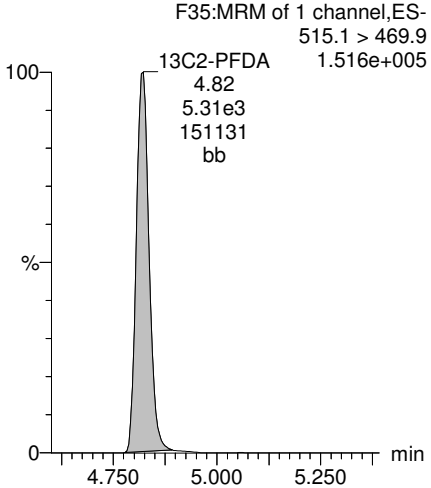

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
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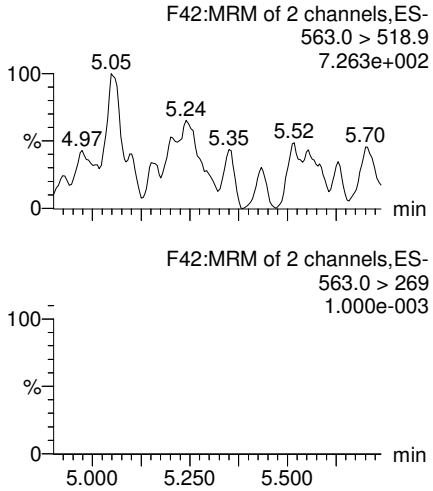
Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

PFUdA



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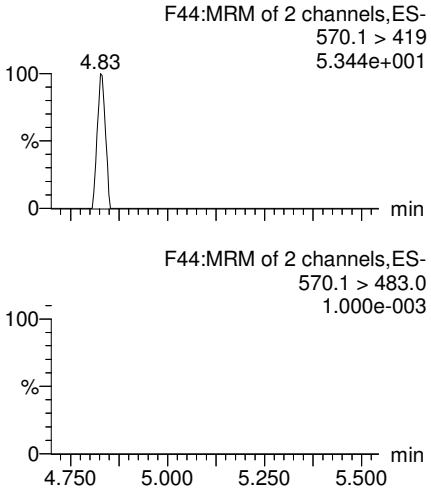

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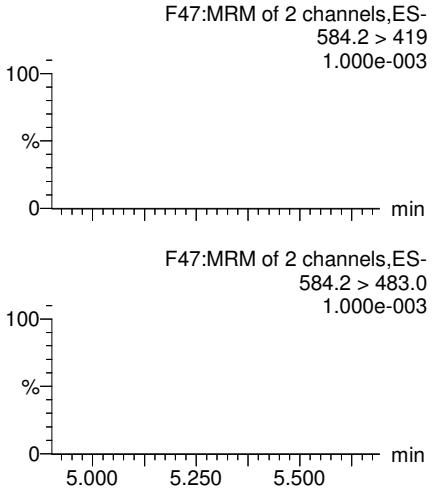

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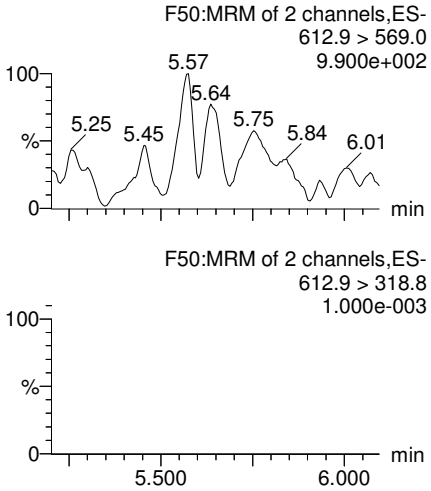

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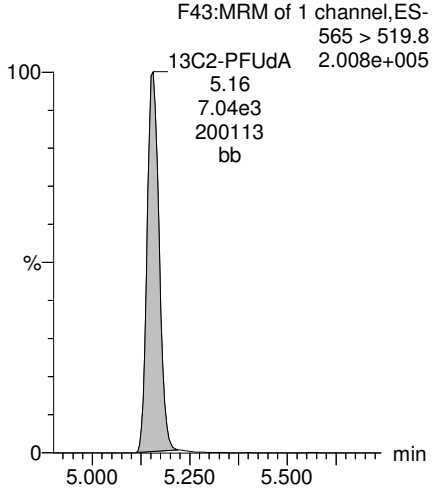

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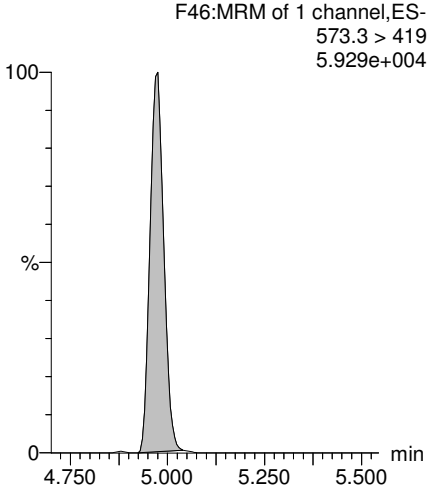

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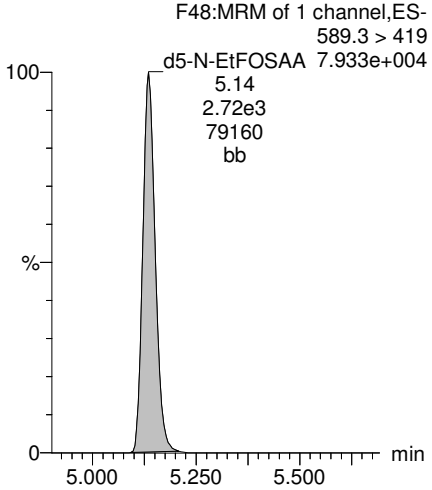

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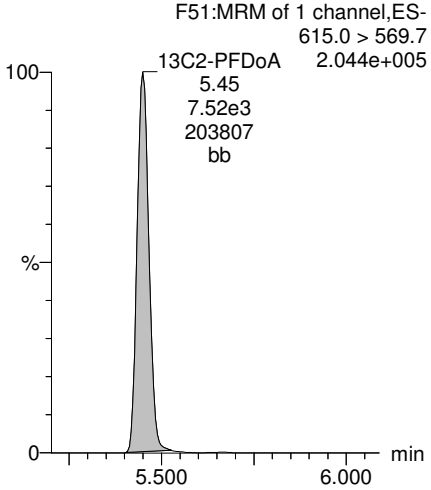

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
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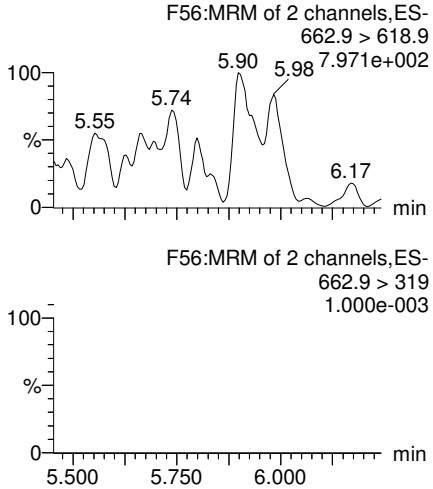
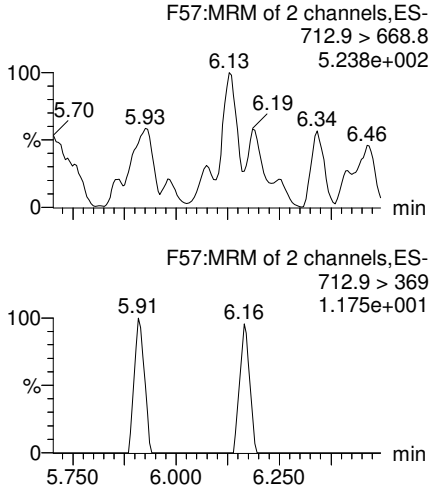
Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

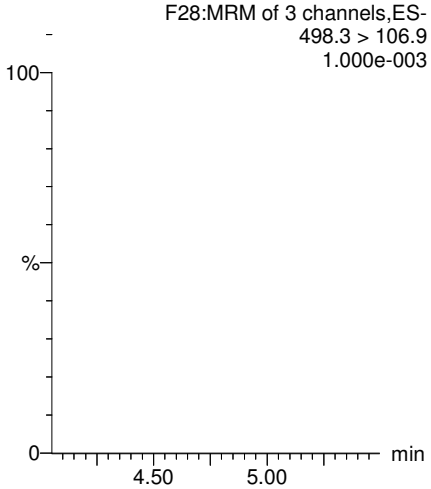
PFTrDA



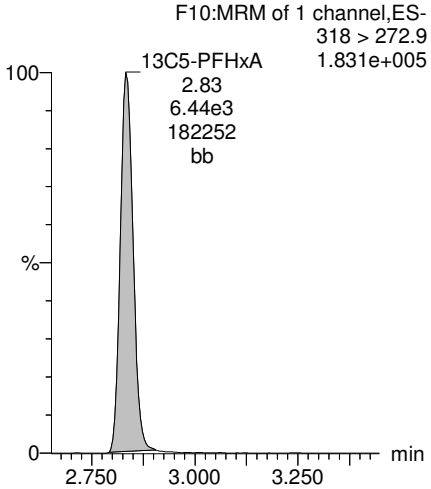
PFTeDA



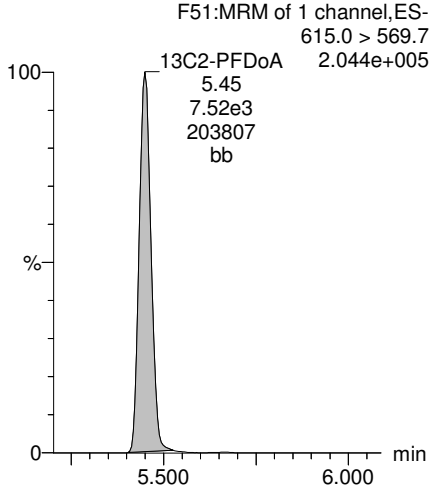
TCDA



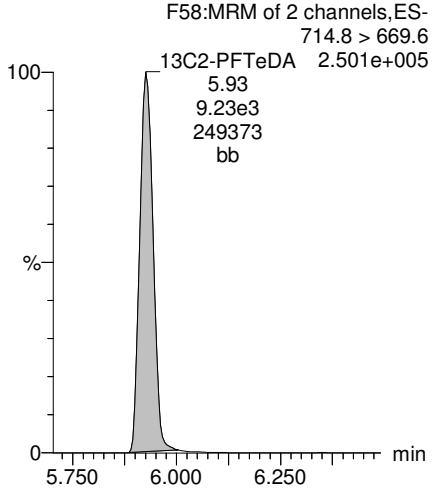
13C5-PFHxA



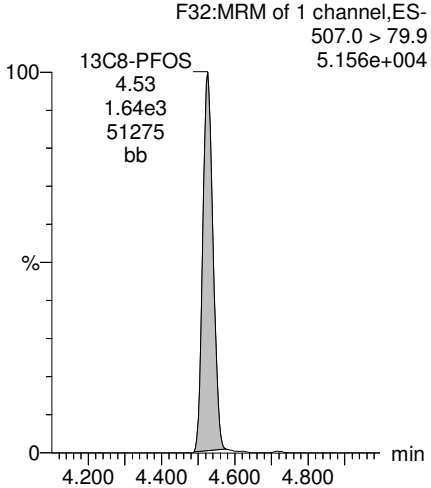
13C2-PFDoA



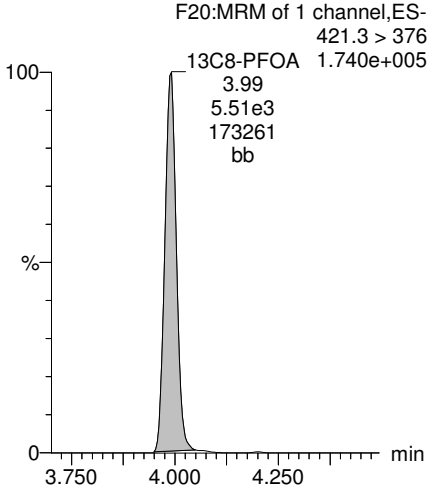
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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Vista Analytical Laboratory

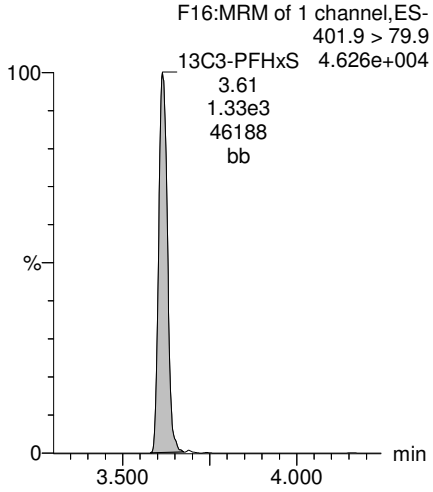
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-64.qld

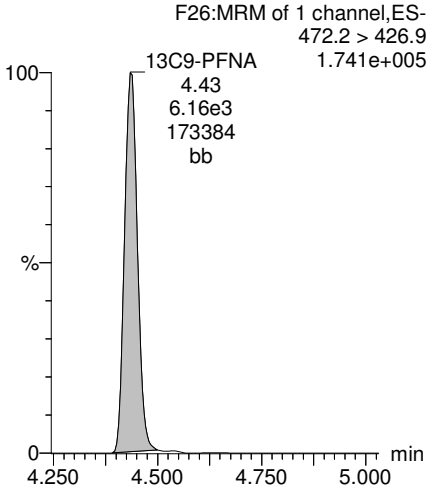
Last Altered: Monday, November 27, 2017 11:12:20 Pacific Standard Time
Printed: Monday, November 27, 2017 11:12:55 Pacific Standard Time

Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

13C3-PFHxS



13C9-PFNA



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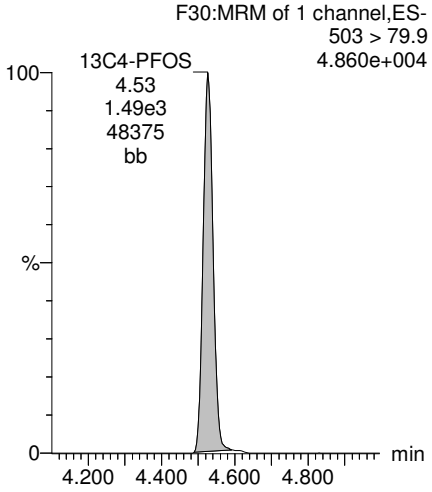
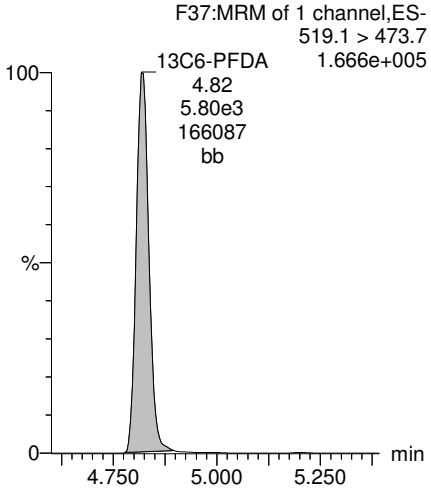
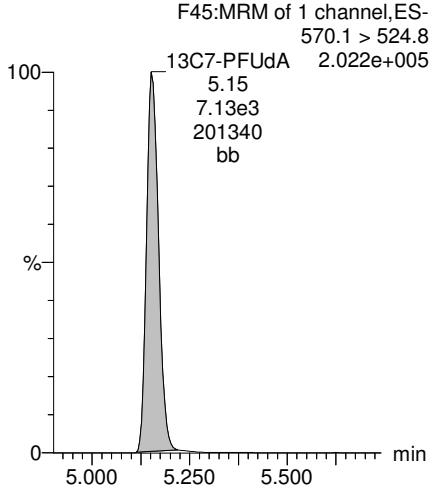


13C6-PFDA



13C7-PFUdA



MJT11/27/2017

Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:16 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	3.91e2	7.86e2	0.11711		2.44	2.35	6.23	21.605	
2	4	PFHxA	313.2 > 268.9	3.28e3	2.21e3	0.11711		2.93	2.84	7.43	38.311	
3	5	PFHpA	363.0 > 318.9	3.89e2	4.73e3	0.11711		3.56	3.46	1.03	5.311	
4	6	L-PFHxS	398.9 > 79.6	2.16e3	6.35e2	0.11711		3.71	3.62	42.6	157.281	
5	9	L-PFOA	413 > 368.7	5.91e2	7.12e3	0.11711		4.05	3.99	1.04	6.408	
6	12	PFNA	463.0 > 418.8		6.17e3	0.11711		4.55				
7	14	L-PFOS	499 > 79.9	4.04e2	1.74e3	0.11711		4.63	4.38	2.90	23.399	
8	16	PFDA	513 > 468.8		6.48e3	0.11711		4.92				
9	18	N-MeFOSAA	570.1 > 419		3.10e3	0.11711		5.08				
10	19	N-EtFOSAA	584.2 > 419		3.13e3	0.11711		5.24				
11	20	PFUdA	563.0 > 518.9		8.00e3	0.11711		5.25				
12	22	PFDoA	612.9 > 569.0		7.81e3	0.11711		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		7.81e3	0.11711		5.80				
2	25	PFTeDA	712.9 > 668.8		9.03e3	0.11711		6.02				
3	31	13C3-PFBA	216.1 > 171.8	4.82e3	4.80e3	0.11711	0.884	1.17	1.09	12.6	121.297	113.6
4	32	13C3-PFPeA	266. > 221.8	5.41e3	6.71e3	0.11711	0.727	2.15	2.05	10.1	118.390	110.9
5	33	13C3-PFBS	302. > 98.8	7.86e2	6.71e3	0.11711	0.083	2.44	2.34	1.46	150.788	141.3
6	34	13C2-PFHxA	315 > 269.8	2.21e3	6.71e3	0.11711	0.703	2.93	2.84	4.12	50.003	117.1
7	35	13C4-PFHpA	367.2 > 321.8	4.73e3	6.71e3	0.11711	0.656	3.56	3.46	8.81	114.588	107.4
8	36	18O2-PFHxS	403.0 > 102.6	6.35e2	1.45e3	0.11711	0.408	3.71	3.62	5.47	114.422	107.2
9	37	13C2-6:2 FTS	429.1 > 408.9	2.08e3	5.22e3	0.11711	0.243	4.03	3.94	4.99	174.977	163.9
10	38	13C2-PFOA	414.9 > 369.7	7.12e3	5.22e3	0.11711	1.076	4.05	3.99	17.1	135.461	126.9
11	39	13C5-PFNA	468.2 > 422.9	6.17e3	7.00e3	0.11711	0.914	4.55	4.44	11.0	102.888	96.4
12	40	13C8-PFOSA	506.1 > 77.7	1.18e3	8.57e3	0.11711	0.211	4.59	4.50	1.71	69.318	64.9
13	41	13C8-PFOS	507.0 > 79.9	1.74e3	1.74e3	0.11711	0.982	4.63	4.53	12.5	108.573	101.7
14	42	13C2-PFDA	515.1 > 469.9	6.48e3	7.14e3	0.11711	0.891	4.92	4.83	11.3	108.709	101.8
15	43	13C2-8:2 FTS	529.1 > 508.7	1.04e3	7.14e3	0.11711	0.198	4.89	4.79	1.83	78.624	73.7
16	44	d3-N-MeFOSAA	573.3 > 419	3.10e3	8.57e3	0.11711	0.361	5.08	4.97	4.52	107.030	100.3
17	45	d5-N-EtFOSAA	589.3 > 419	3.13e3	8.57e3	0.11711	0.394	5.24	5.14	4.57	99.031	92.8
18	46	13C2-PFUdA	565 > 519.8	8.00e3	8.57e3	0.11711	0.966	5.25	5.16	11.7	103.066	96.6
19	47	13C2-PFDoA	615.0 > 569.7	7.81e3	8.57e3	0.11711	0.989	5.55	5.45	11.4	98.346	92.1
20	49	13C2-PFTeDA	714.8 > 669.6	9.03e3	8.57e3	0.11711	0.927	6.02	5.93	13.2	121.335	113.7
21	54	13C4-PFBA	217. > 171.8	4.80e3	4.80e3	0.11711	1.000	1.17	1.09	12.5	106.737	100.0
22	55	13C5-PFHxA	318 > 272.9	6.71e3	6.71e3	0.11711	1.000	2.93	2.84	12.5	106.737	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.45e3	1.45e3	0.11711	1.000	3.71	3.62	12.5	106.737	100.0
24	57	13C8-PFOA	421.3 > 376	5.22e3	5.22e3	0.11711	1.000	4.05	4.00	12.5	106.737	100.0
25	58	13C9-PFNA	472.2 > 426.9	7.00e3	7.00e3	0.11711	1.000	4.55	4.44	12.5	106.737	100.0
26	59	13C4-PFOS	503 > 79.9	1.74e3	1.74e3	0.11711	1.000	4.63	4.53	12.5	106.737	100.0
27	60	13C6-PFDA	519.1 > 473.7	7.14e3	7.14e3	0.11711	1.000	4.92	4.83	12.5	106.737	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.57e3	8.57e3	0.11711	1.000	5.25	5.16	12.5	106.737	100.0
29	62	Total PFHxS	398.9 > 79.6	2.16e3	6.35e2	0.11711		3.71		42.6	157.281	
30	63	Total PFOA	413 > 368.7	7.00e2	7.12e3	0.11711		4.05		1.04	6.408	
31	64	Total PFOS	499 > 79.9	4.04e2	1.74e3	0.11711		4.63		2.90	23.399	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.10e3	0.11711		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.13e3	0.11711		5.24		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
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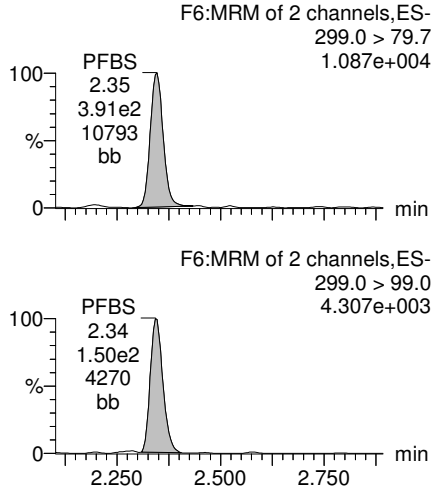
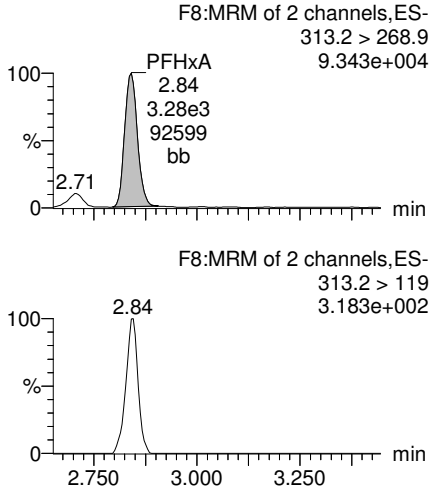
Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

PFBS



PFHxA



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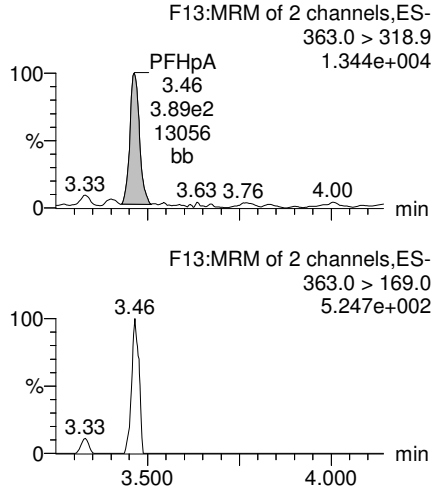
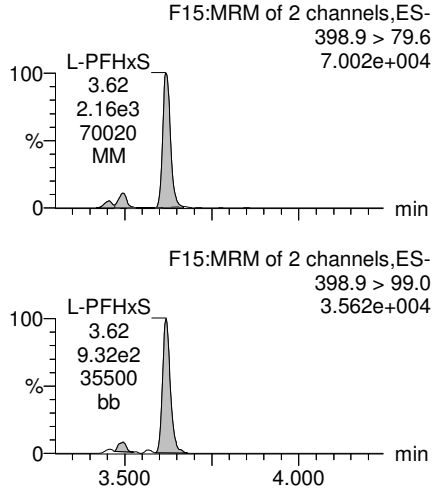
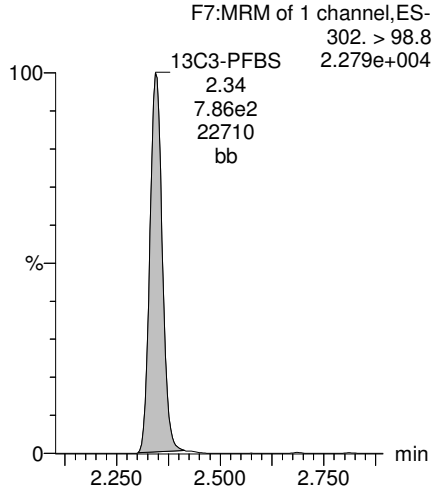


Total PFHxS



13C3-PFBS



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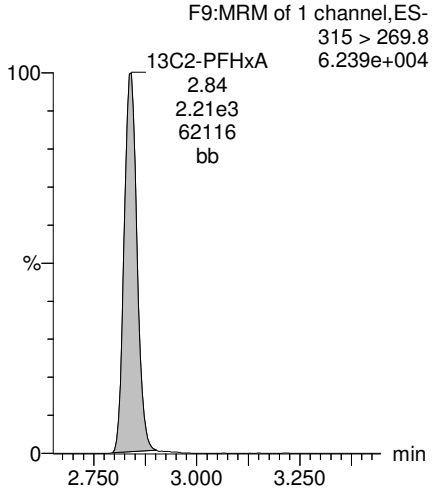

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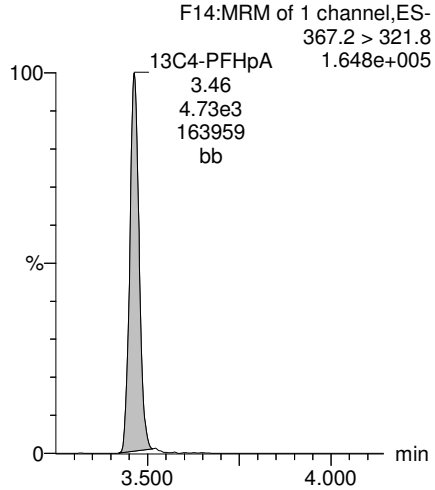

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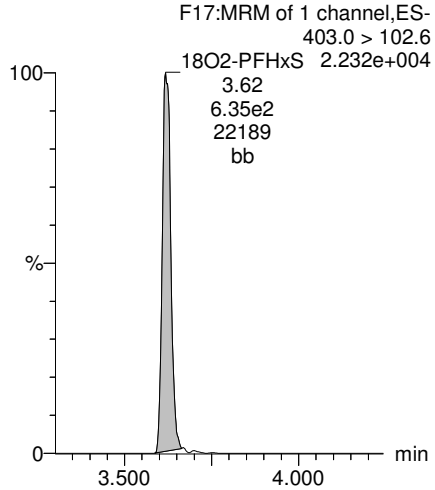


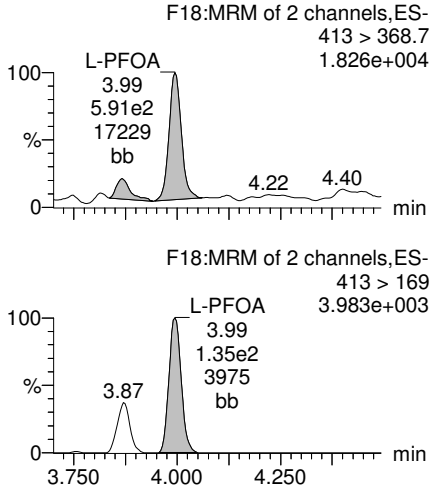
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

Total PFOA



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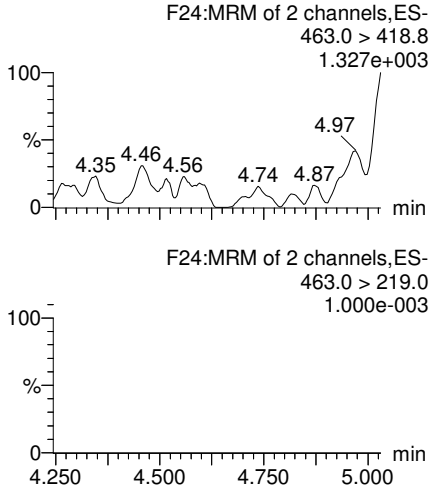
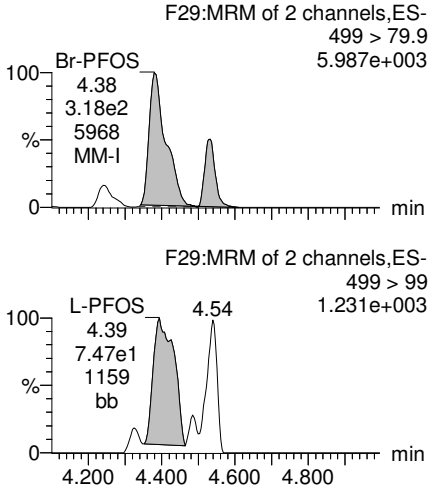


Total PFOS



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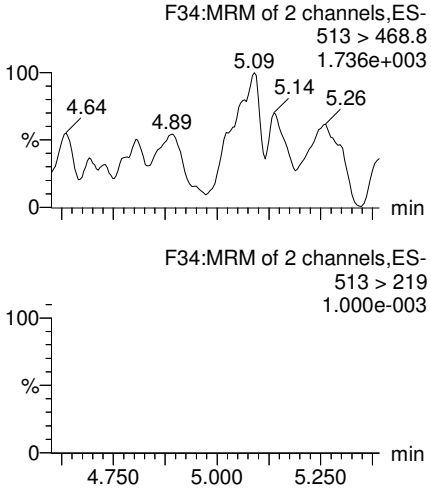
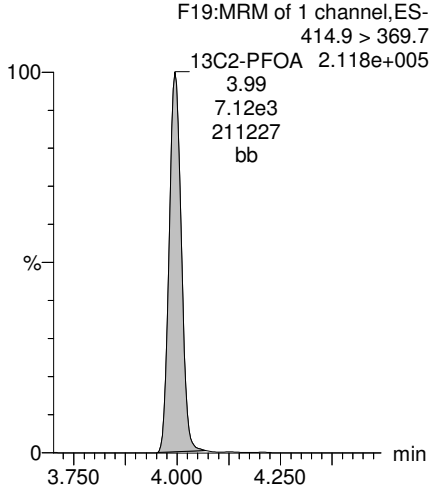
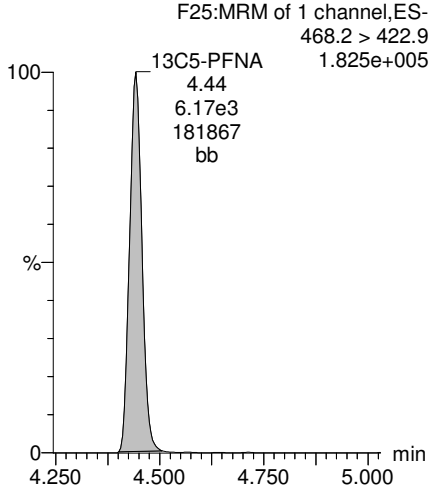


13C2-PFOA



13C5-PFNA



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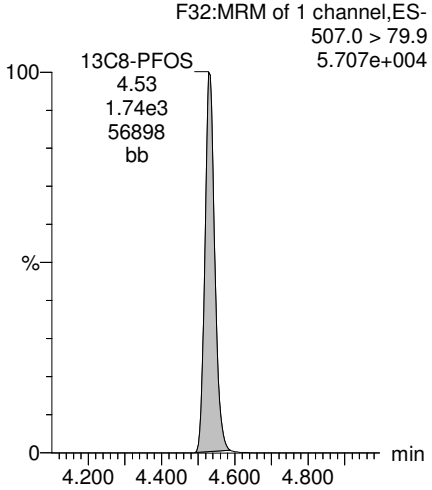

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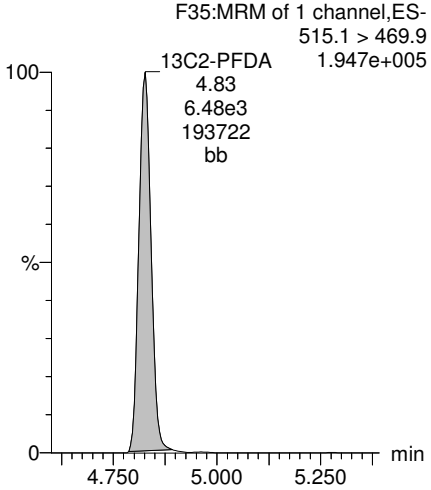


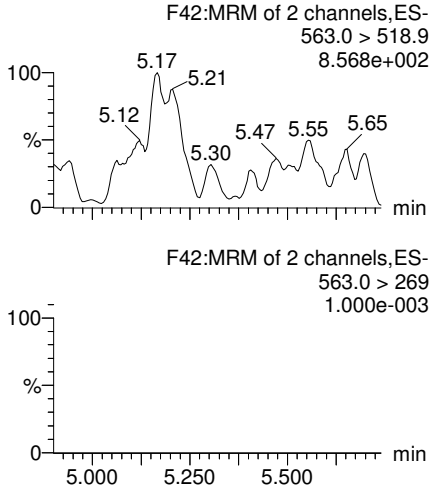
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

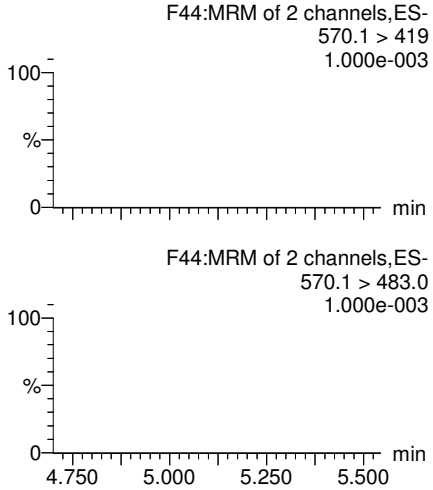
Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

PFUdA



N-MeFOSAA



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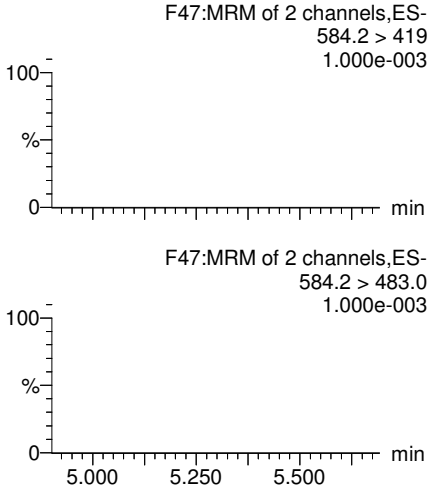
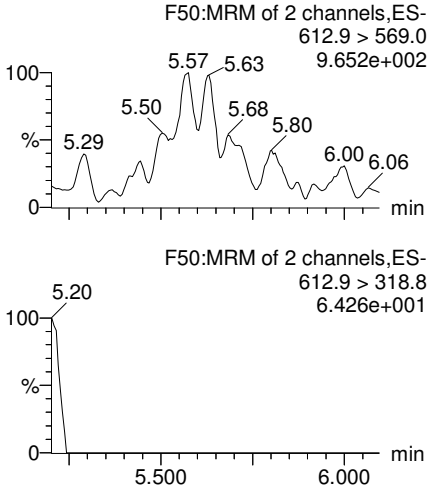
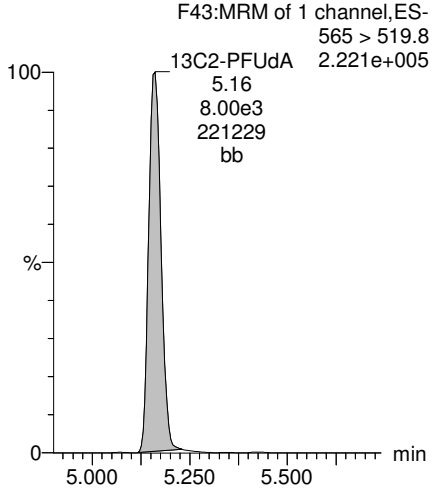


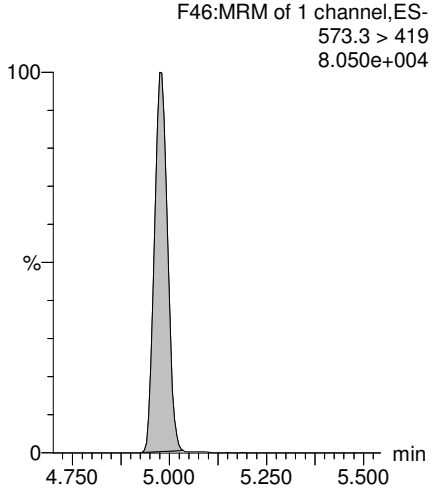
PFDoA



13C2-PFUdA



d3-N-MeFOSAA



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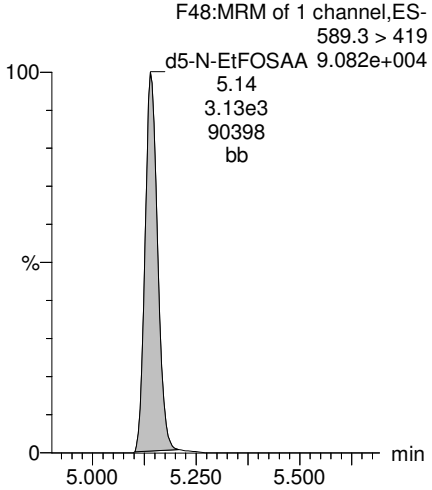
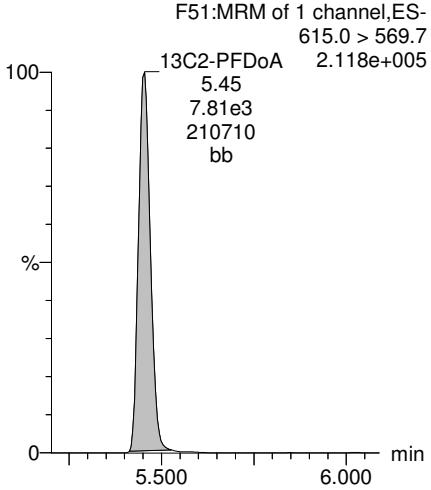


13C2-PFDoA



MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

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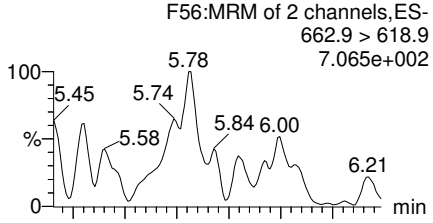
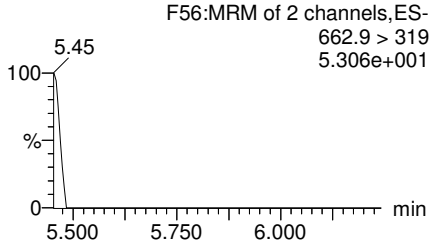
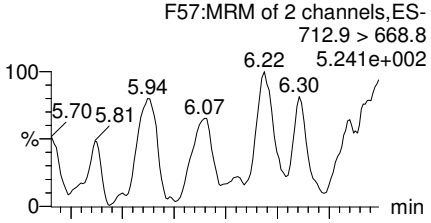
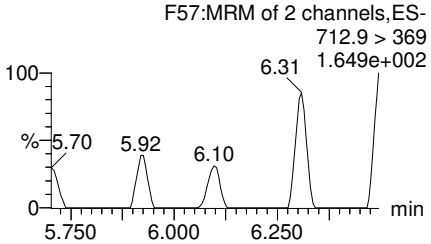


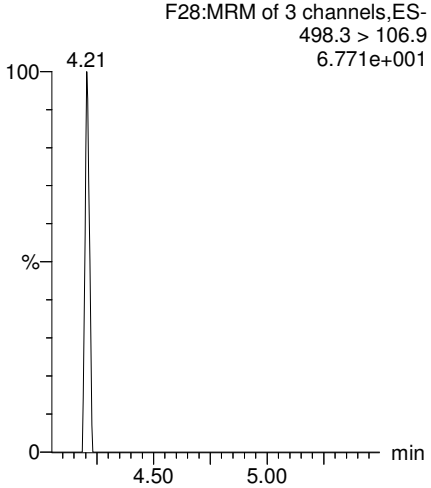


PFTeDA

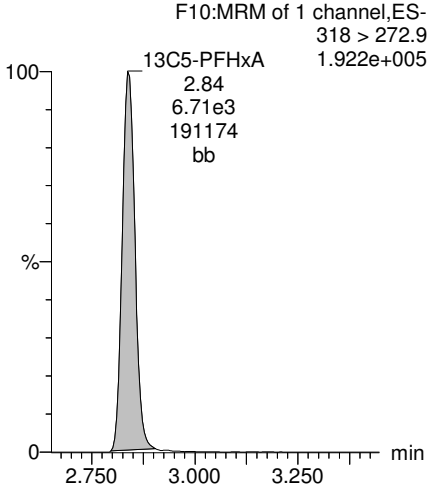




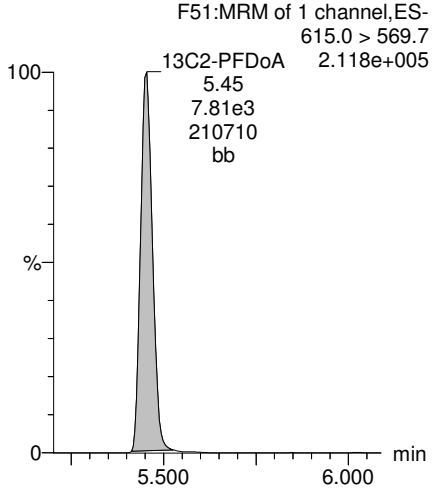
TCDA



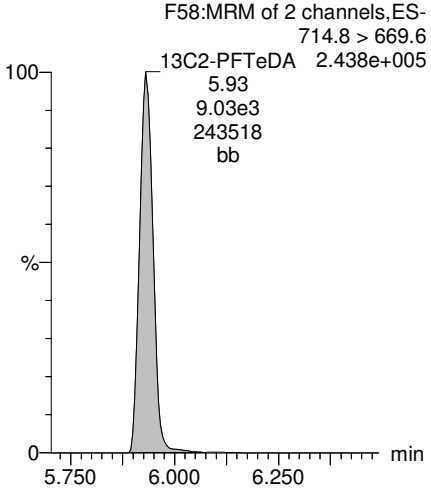
13C5-PFHxA



13C2-PFDoA



13C2-PFTeDA



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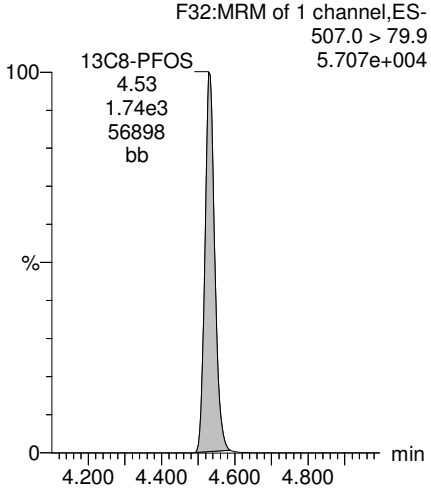

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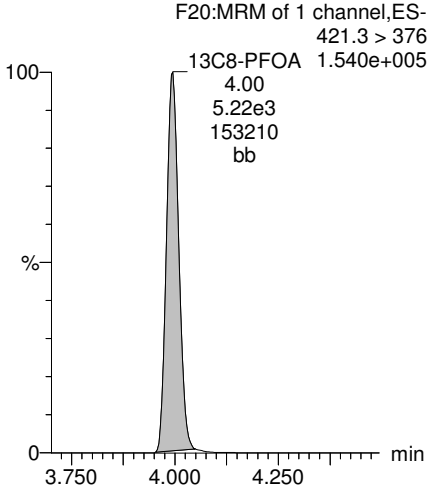

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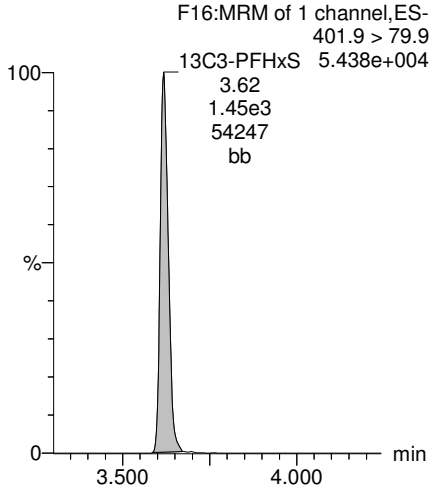
Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-65.qld

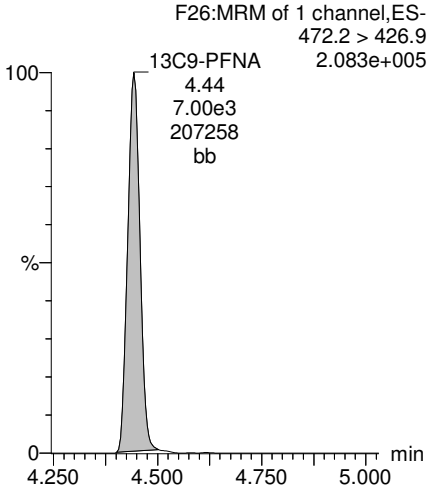
Last Altered: Monday, November 27, 2017 11:20:45 Pacific Standard Time
Printed: Monday, November 27, 2017 11:21:29 Pacific Standard Time

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

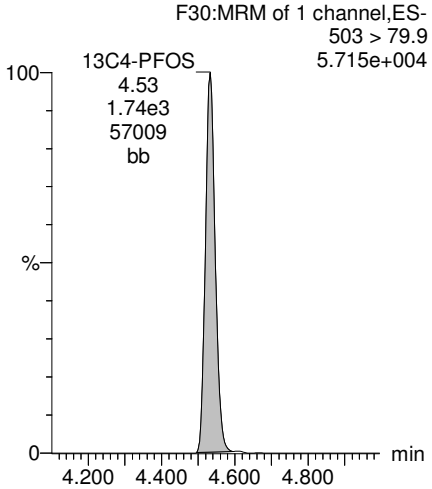
13C3-PFHxS



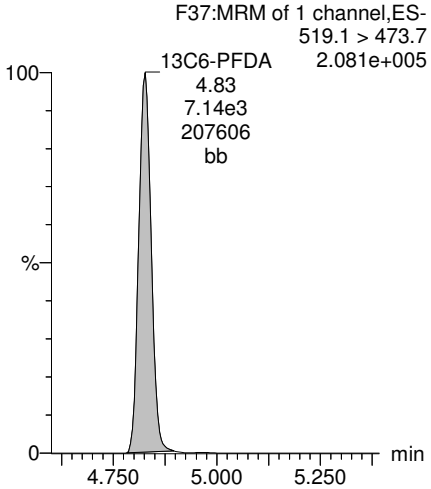
13C9-PFNA



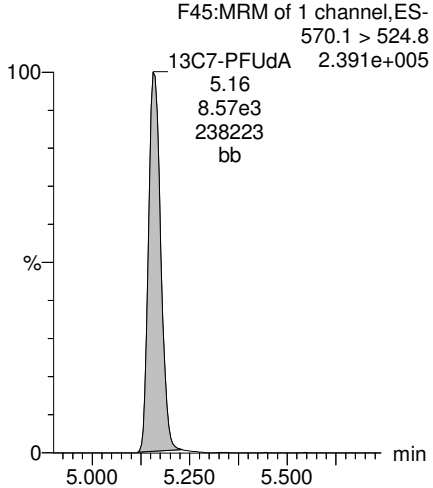
13C4-PFOS



13C6-PFDA



13C7-PFUdA



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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.82e2	0.11791		2.44				
2	4	PFHxA	313.2 > 268.9		2.42e3	0.11791		2.93				
3	5	PFHpA	363.0 > 318.9		6.01e3	0.11791		3.56				
4	6	L-PFHxS	398.9 > 79.6	3.45e0	6.13e2	0.11791		3.71	3.63	0.0703		
5	9	L-PFOA	413 > 368.7	1.64e2	8.74e3	0.11791		4.05	3.99	0.235		
6	12	PFNA	463.0 > 418.8		6.76e3	0.11791		4.55				
7	14	L-PFOS	499 > 79.9		1.62e3	0.11791		4.63				
8	16	PFDA	513 > 468.8		6.37e3	0.11791		4.92				
9	18	N-MeFOSAA	570.1 > 419		3.14e3	0.11791		5.08				
10	19	N-EtFOSAA	584.2 > 419		2.83e3	0.11791		5.24				
11	20	PFUdA	563.0 > 518.9		8.19e3	0.11791		5.25				
12	22	PFDoA	612.9 > 569.0		7.71e3	0.11791		5.55				

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9		7.71e3	0.11791		5.80				
2	25	PFTeDA	712.9 > 668.8		9.08e3	0.11791		6.02				
3	31	13C3-PFBA	216.1 > 171.8	5.21e3	5.58e3	0.11791	0.884	1.17	1.09	11.7	111.847	105.5
4	32	13C3-PFPeA	266. > 221.8	6.18e3	7.71e3	0.11791	0.727	2.15	2.05	10.0	116.886	110.3
5	33	13C3-PFBS	302. > 98.8	7.82e2	7.71e3	0.11791	0.083	2.44	2.35	1.27	129.951	122.6
6	34	13C2-PFHxA	315 > 269.8	2.42e3	7.71e3	0.11791	0.703	2.93	2.84	3.93	47.399	111.8
7	35	13C4-PFHpA	367.2 > 321.8	6.01e3	7.71e3	0.11791	0.656	3.56	3.46	9.75	125.945	118.8
8	36	18O2-PFHxS	403.0 > 102.6	6.13e2	1.49e3	0.11791	0.408	3.71	3.62	5.15	107.020	100.9
9	37	13C2-6:2 FTS	429.1 > 408.9	1.90e3	6.13e3	0.11791	0.243	4.03	3.94	3.87	134.872	127.2
10	38	13C2-PFOA	414.9 > 369.7	8.74e3	6.13e3	0.11791	1.076	4.05	4.00	17.8	140.504	132.5
11	39	13C5-PFNA	468.2 > 422.9	6.76e3	6.72e3	0.11791	0.914	4.55	4.44	12.6	116.709	110.1
12	40	13C8-PFOSA	506.1 > 77.7	1.11e3	8.99e3	0.11791	0.211	4.59	4.50	1.55	62.210	58.7
13	41	13C8-PFOS	507.0 > 79.9	1.62e3	1.46e3	0.11791	0.982	4.63	4.53	13.9	119.765	113.0
14	42	13C2-PFDA	515.1 > 469.9	6.37e3	8.67e3	0.11791	0.891	4.92	4.83	9.18	87.375	82.4
15	43	13C2-8:2 FTS	529.1 > 508.7	1.50e3	8.67e3	0.11791	0.198	4.89	4.79	2.16	92.582	87.3
16	44	d3-N-MeFOSAA	573.3 > 419	3.14e3	8.99e3	0.11791	0.361	5.08	4.98	4.37	102.641	96.8
17	45	d5-N-EtFOSAA	589.3 > 419	2.83e3	8.99e3	0.11791	0.394	5.24	5.14	3.93	84.560	79.8
18	46	13C2-PFUdA	565 > 519.8	8.19e3	8.99e3	0.11791	0.966	5.25	5.16	11.4	99.877	94.2
19	47	13C2-PFDoA	615.0 > 569.7	7.71e3	8.99e3	0.11791	0.989	5.55	5.45	10.7	91.842	86.6
20	49	13C2-PFTeDA	714.8 > 669.6	9.08e3	8.99e3	0.11791	0.927	6.02	5.94	12.6	115.479	108.9
21	54	13C4-PFBA	217. > 171.8	5.58e3	5.58e3	0.11791	1.000	1.17	1.10	12.5	106.013	100.0
22	55	13C5-PFHxA	318 > 272.9	7.71e3	7.71e3	0.11791	1.000	2.93	2.84	12.5	106.013	100.0
23	56	13C3-PFHxS	401.9 > 79.9	1.49e3	1.49e3	0.11791	1.000	3.71	3.62	12.5	106.013	100.0
24	57	13C8-PFOA	421.3 > 376	6.13e3	6.13e3	0.11791	1.000	4.05	3.99	12.5	106.013	100.0
25	58	13C9-PFNA	472.2 > 426.9	6.72e3	6.72e3	0.11791	1.000	4.55	4.44	12.5	106.013	100.0
26	59	13C4-PFOS	503 > 79.9	1.46e3	1.46e3	0.11791	1.000	4.63	4.53	12.5	106.013	100.0
27	60	13C6-PFDA	519.1 > 473.7	8.67e3	8.67e3	0.11791	1.000	4.92	4.83	12.5	106.013	100.0
28	61	13C7-PFUdA	570.1 > 524.8	8.99e3	8.99e3	0.11791	1.000	5.25	5.16	12.5	106.013	100.0
29	62	Total PFHxS	398.9 > 79.6	3.45e0	6.13e2	0.11791		3.71		0.000		
30	63	Total PFOA	413 > 368.7	1.64e2	8.74e3	0.11791		4.05		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	1.62e3	0.11791		4.63		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.14e3	0.11791		5.08		0.000		

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Rev'd: MM 11/27/17

Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.83e3	0.11791		5.24		0.000		

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Vista Analytical Laboratory

Rev'd: MM 11/27/17

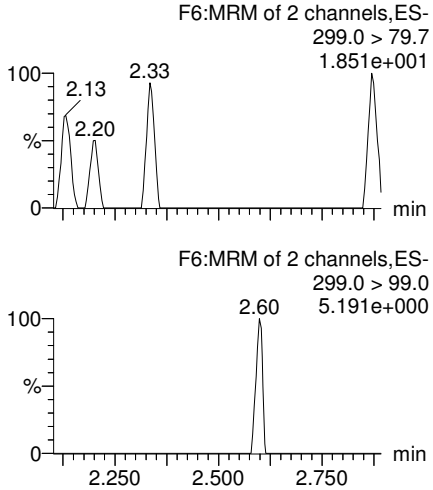
Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

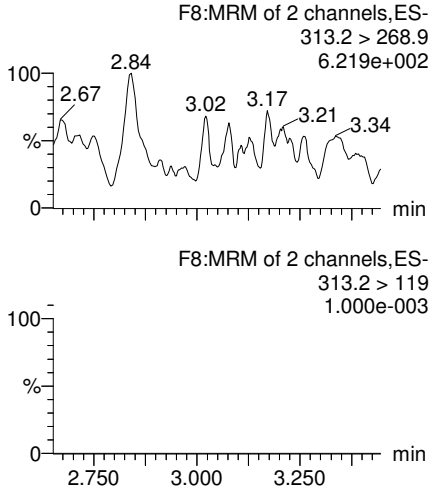
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 06 Nov 2017 13:41:14
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:07:10

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

PFBS



PFHxA



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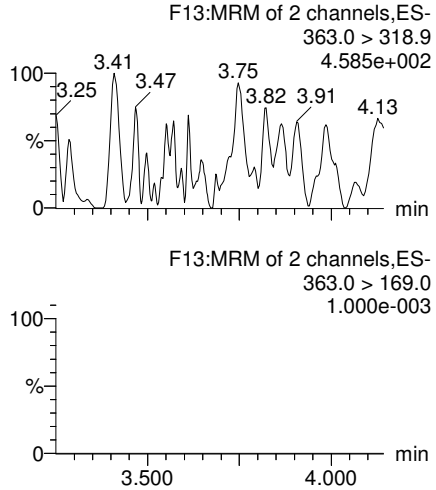

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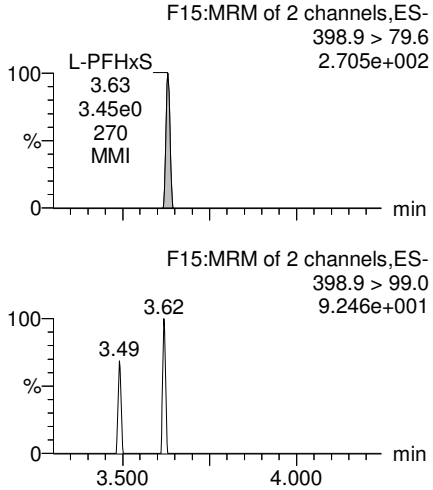
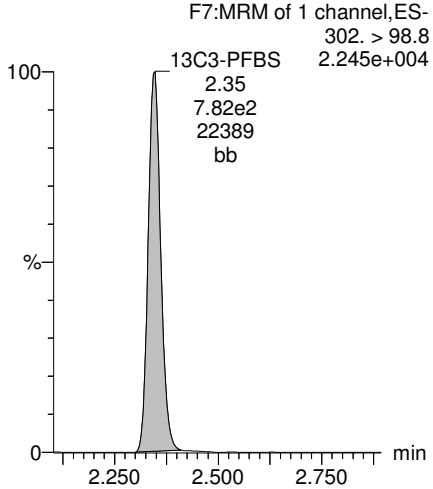
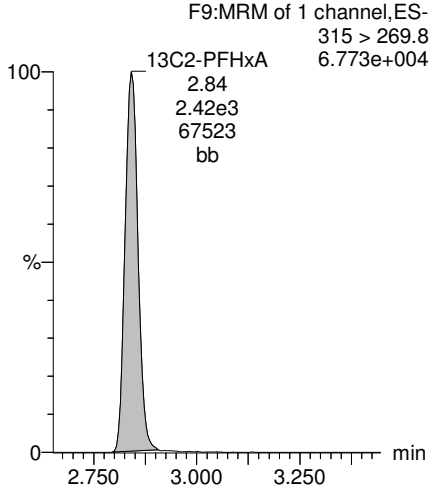


13C3-PFBS



13C2-PFHxA



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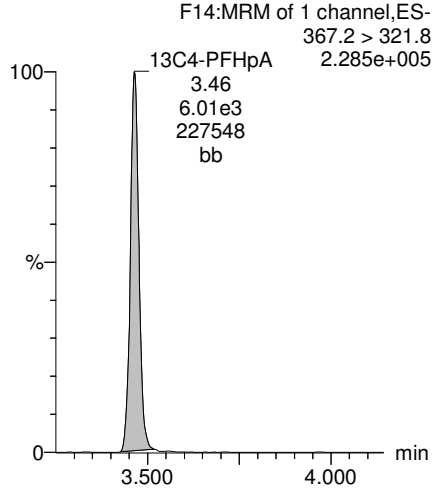
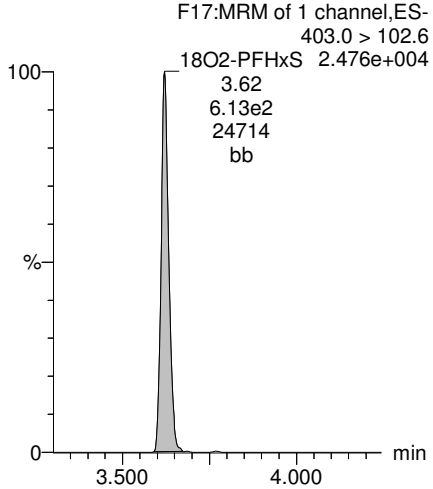


18O2-PFHxS



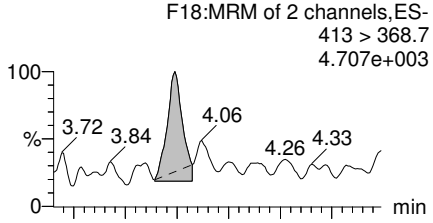
MJT11/27/2017

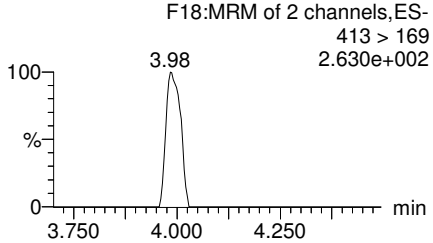
Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

Total PFOA





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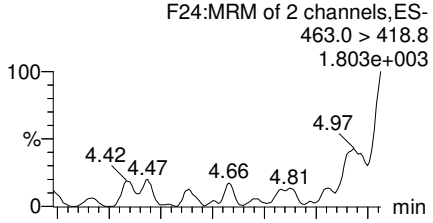

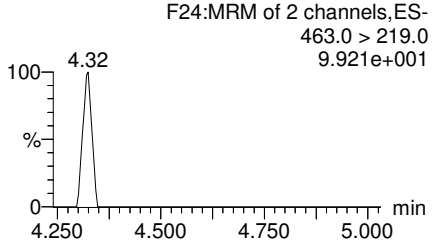

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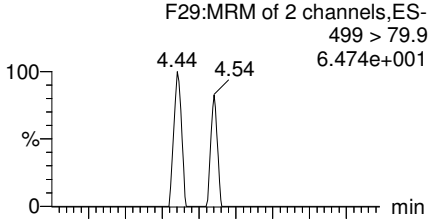
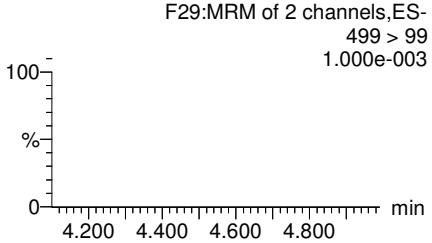
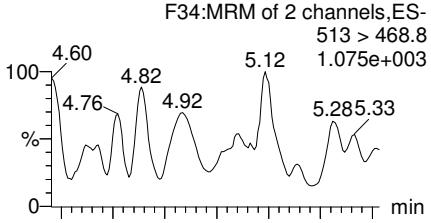
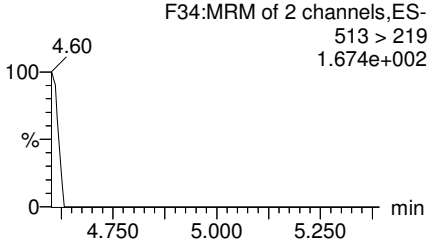


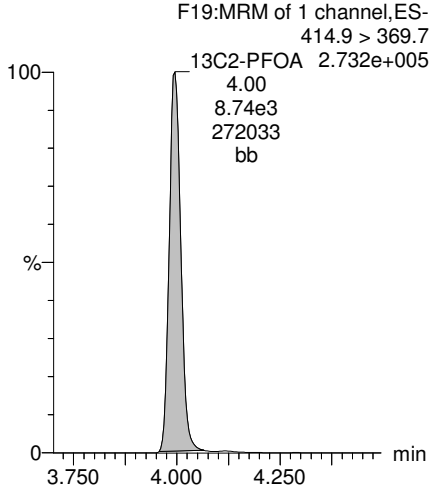


PFDA

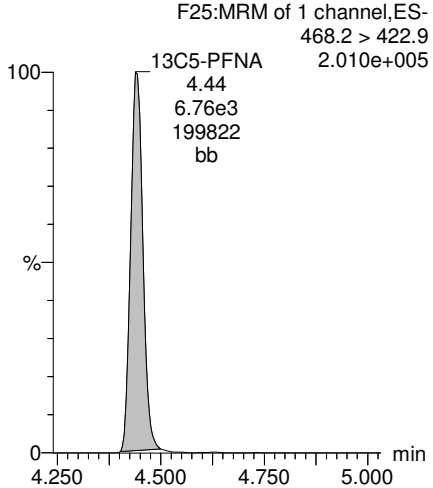




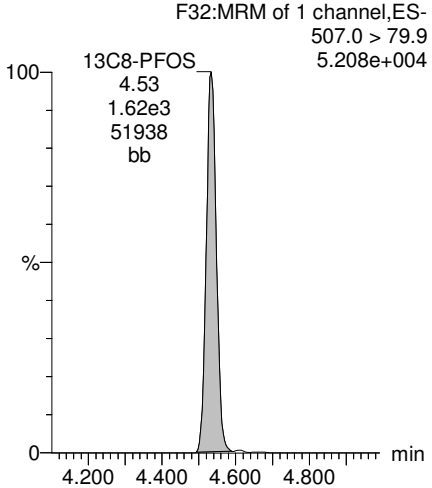
13C2-PFOA



13C5-PFNA



13C8-PFOS



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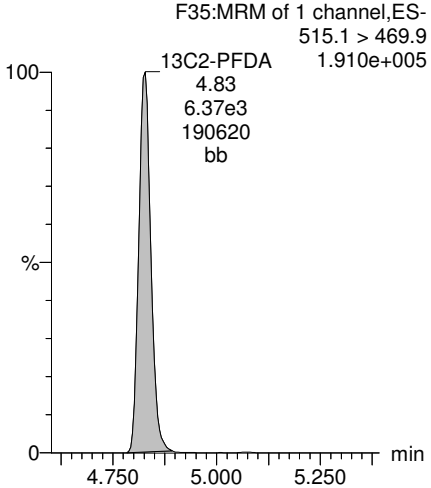


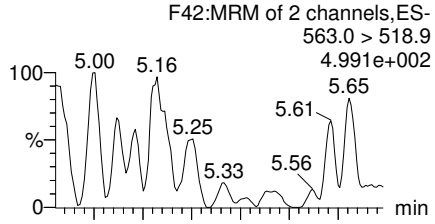
MJT11/27/2017

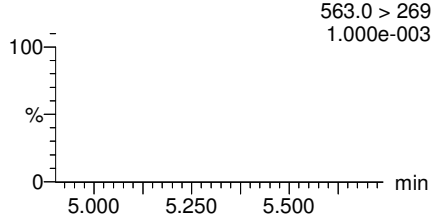
Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

PFUdA





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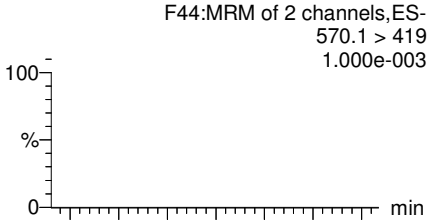

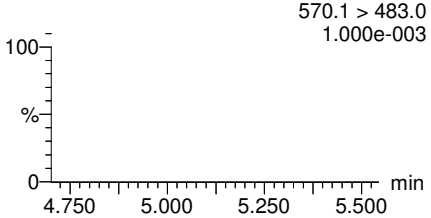

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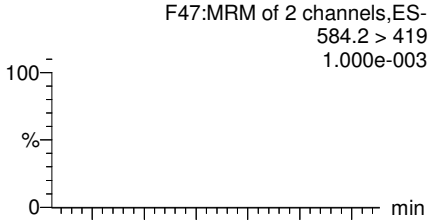

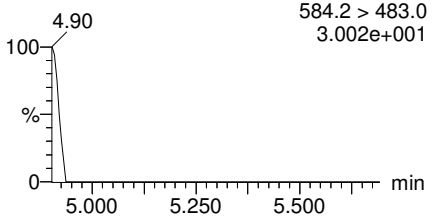

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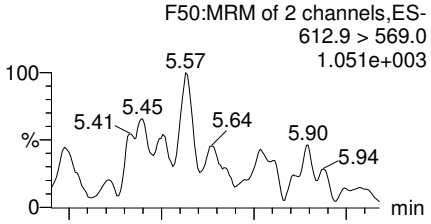
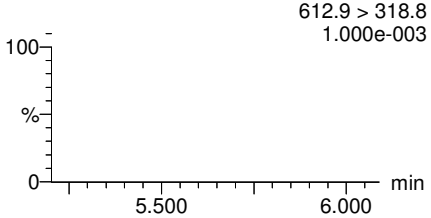
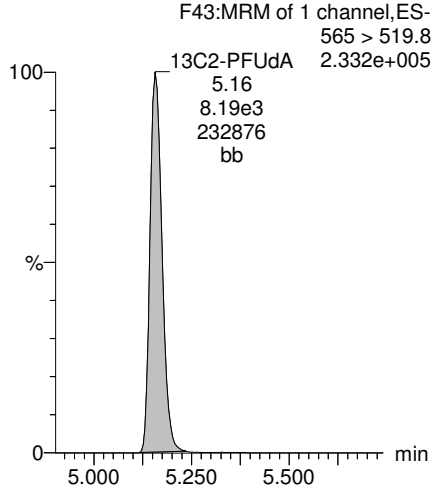




13C2-PFUdA



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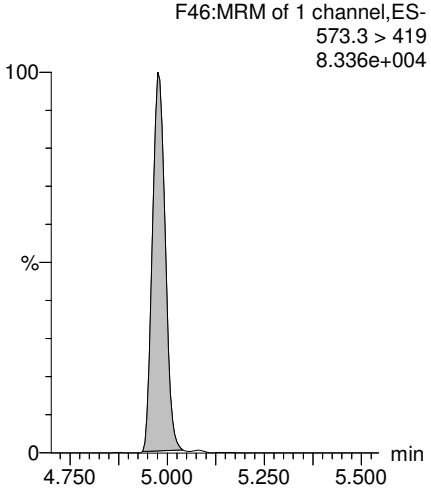

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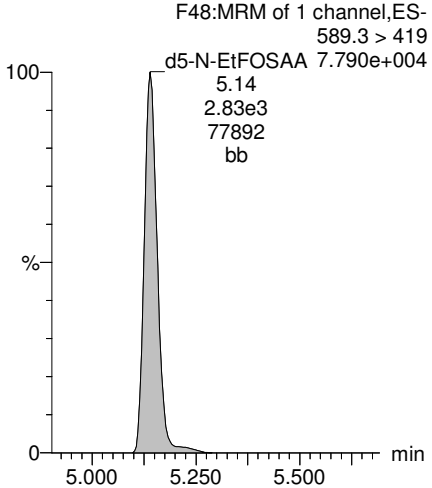

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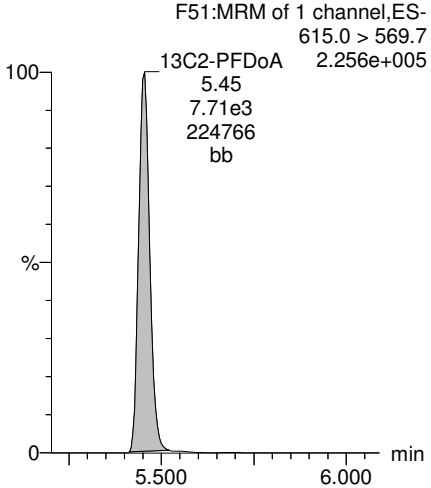


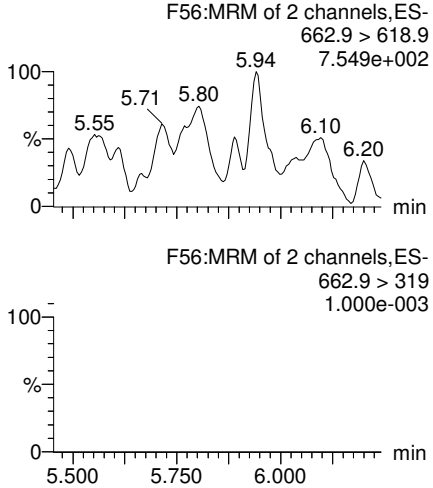
MJT11/27/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-66.qld

Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

PFTrDA



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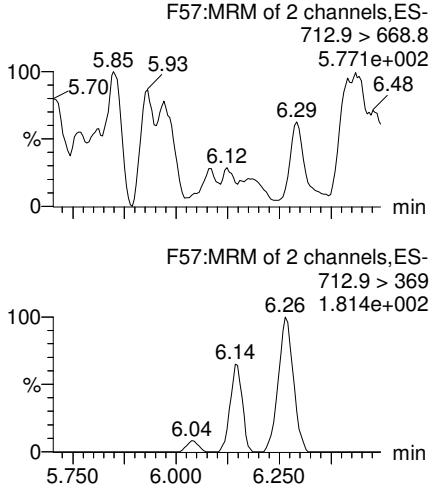

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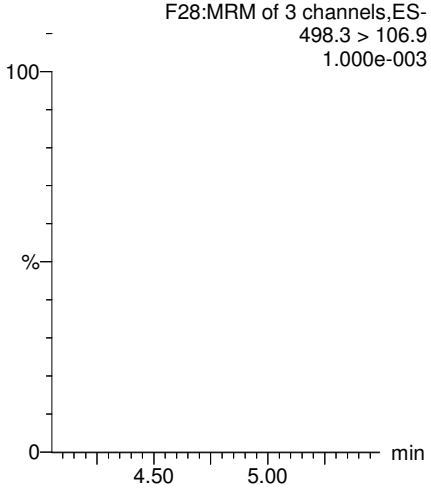
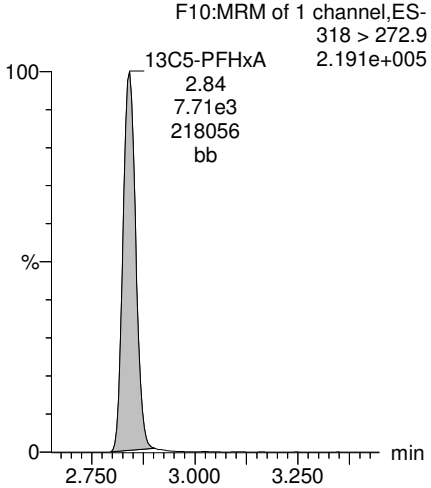
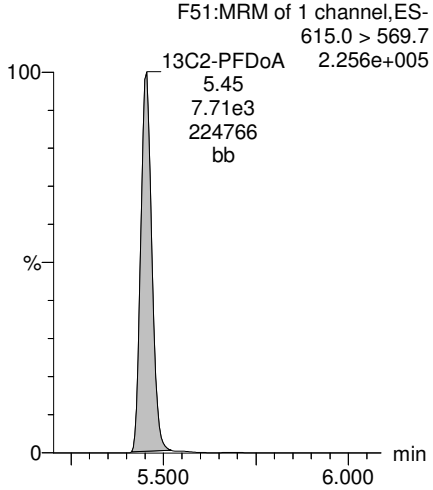


13C5-PFHxA



13C2-PFDoA



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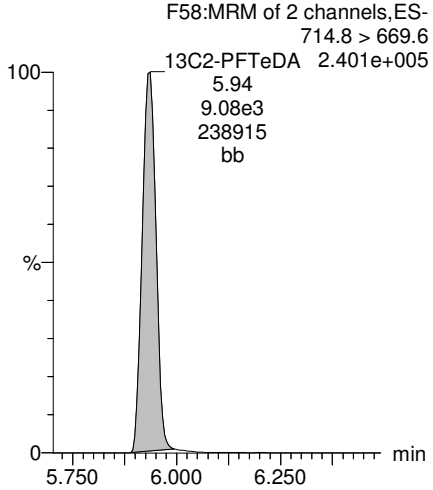
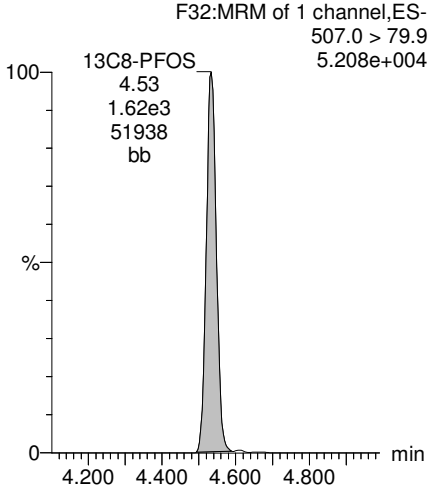
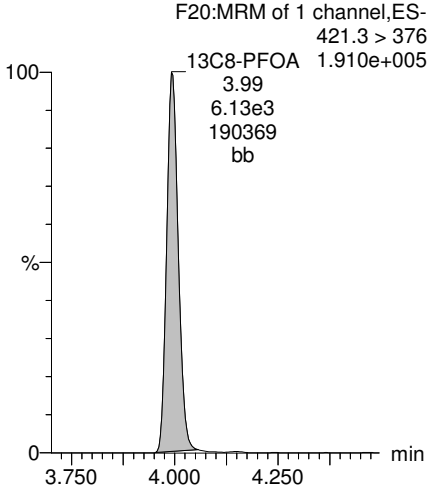


13C8-PFOS



13C8-PFOA



MJT11/27/2017

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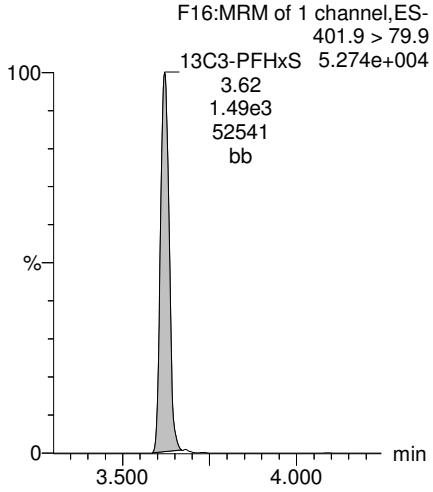
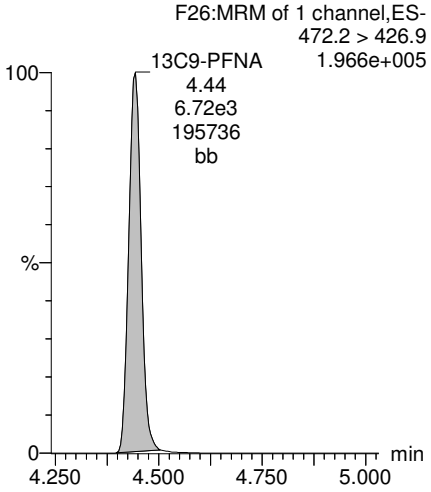
Last Altered: Monday, November 27, 2017 11:24:49 Pacific Standard Time
Printed: Monday, November 27, 2017 11:25:56 Pacific Standard Time

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

13C3-PFHxS



13C9-PFNA



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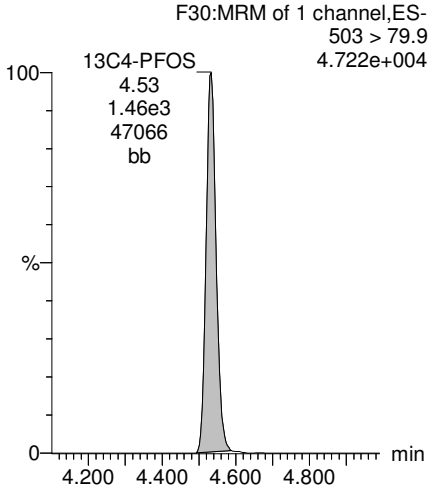
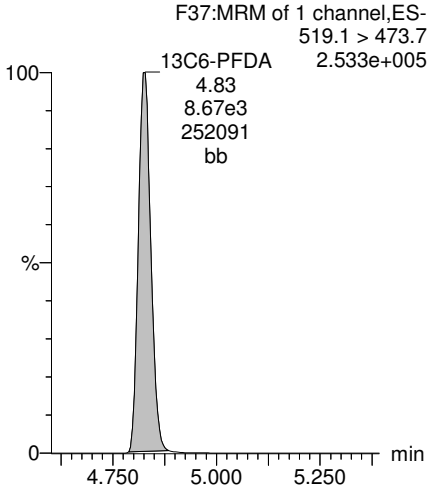
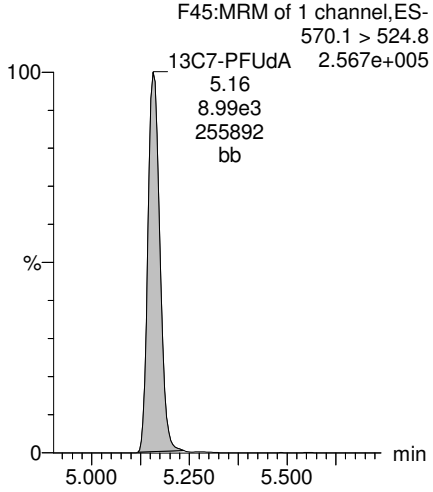


13C6-PFDA



13C7-PFUdA



MJT11/27/2017

INJECTION INTERNAL STANDARD (IIS) AREAS,

INSTRUMENT BLANKS (IB)

AND

CONTINUTING CALIBRATION VERIFICATIONS CCV)

Dataset: U:\Q4.PRO\results\171101M2\IIS.qld

Last Altered: Thursday, November 02, 2017 16:47:05 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:49:45 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_RS-10-27-17.mdb 27 Oct 2017 15:32:48
Calibration: 02 Nov 2017 16:47:05

Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-6 PFC CS3 17J2709	8.35e3	100.0	NO
2	2	13C5-PFHxA	ST171101M2-6 PFC CS3 17J2709	1.10e4	100.0	NO
3	3	13C3-PFHxS	ST171101M2-6 PFC CS3 17J2709	2.02e3	100.0	NO
4	4	13C8-PFOA	ST171101M2-6 PFC CS3 17J2709	1.01e4	100.0	NO
5	5	13C9-PFNA	ST171101M2-6 PFC CS3 17J2709	1.05e4	100.0	NO
6	6	13C4-PFOS	ST171101M2-6 PFC CS3 17J2709	2.38e3	100.0	NO
7	7	13C6-PFDA	ST171101M2-6 PFC CS3 17J2709	9.74e3	100.0	NO
8	8	13C7-PFUnA	ST171101M2-6 PFC CS3 17J2709	1.01e4	100.0	NO

Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-7 PFC CS4 17J2711	7.93e3	95.0	NO
2	2	13C5-PFHxA	ST171101M2-7 PFC CS4 17J2711	1.02e4	92.0	NO
3	3	13C3-PFHxS	ST171101M2-7 PFC CS4 17J2711	1.93e3	95.6	NO
4	4	13C8-PFOA	ST171101M2-7 PFC CS4 17J2711	1.04e4	102.5	NO
5	5	13C9-PFNA	ST171101M2-7 PFC CS4 17J2711	9.32e3	88.9	NO
6	6	13C4-PFOS	ST171101M2-7 PFC CS4 17J2711	1.93e3	81.3	NO
7	7	13C6-PFDA	ST171101M2-7 PFC CS4 17J2711	1.02e4	104.2	NO
8	8	13C7-PFUnA	ST171101M2-7 PFC CS4 17J2711	1.04e4	102.2	NO

Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-8 PFC CS5 17J2712	8.06e3	96.5	NO
2	2	13C5-PFHxA	ST171101M2-8 PFC CS5 17J2712	1.02e4	92.4	NO
3	3	13C3-PFHxS	ST171101M2-8 PFC CS5 17J2712	1.77e3	87.8	NO
4	4	13C8-PFOA	ST171101M2-8 PFC CS5 17J2712	8.08e3	79.7	NO
5	5	13C9-PFNA	ST171101M2-8 PFC CS5 17J2712	8.50e3	81.1	NO
6	6	13C4-PFOS	ST171101M2-8 PFC CS5 17J2712	2.12e3	89.0	NO
7	7	13C6-PFDA	ST171101M2-8 PFC CS5 17J2712	1.01e4	104.0	NO
8	8	13C7-PFUnA	ST171101M2-8 PFC CS5 17J2712	1.03e4	101.4	NO

Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713

	#	Name	ID	Area	%Rec	Area Out
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2	2	13C5-PFHxA	ST171101M2-9 PFC CS6 17J2713	9.29e3	84.1	NO
3	3	13C3-PFHxS	ST171101M2-9 PFC CS6 17J2713	1.74e3	86.2	NO
4	4	13C8-PFOA	ST171101M2-9 PFC CS6 17J2713	8.02e3	79.1	NO
5	5	13C9-PFNA	ST171101M2-9 PFC CS6 17J2713	8.32e3	79.4	NO
6	6	13C4-PFOS	ST171101M2-9 PFC CS6 17J2713	2.06e3	86.6	NO
7	7	13C6-PFDA	ST171101M2-9 PFC CS6 17J2713	9.13e3	93.8	NO
8	8	13C7-PFUnA	ST171101M2-9 PFC CS6 17J2713	1.04e4	102.7	NO

Dataset: U:\Q4.PRO\results\171101M2\IIS.qld

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Name: 171101M2_11, Date: 01-Nov-2017, Time: 16:37:23, ID: ST171101M2-10 PFC CS7 17J2714, Description: PFC CS7 17J2714

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-10 PFC CS7 17J2714	7.91e3	94.7	NO
2	2	13C5-PFHxA	ST171101M2-10 PFC CS7 17J2714	9.38e3	84.9	NO
3	3	13C3-PFHxS	ST171101M2-10 PFC CS7 17J2714	1.66e3	82.4	NO
4	4	13C8-PFOA	ST171101M2-10 PFC CS7 17J2714	8.11e3	80.0	NO
5	5	13C9-PFNA	ST171101M2-10 PFC CS7 17J2714	8.56e3	81.7	NO
6	6	13C4-PFOS	ST171101M2-10 PFC CS7 17J2714	1.87e3	78.5	NO
7	7	13C6-PFDA	ST171101M2-10 PFC CS7 17J2714	8.33e3	85.5	NO
8	8	13C7-PFUnA	ST171101M2-10 PFC CS7 17J2714	8.40e3	83.0	NO

Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ICV171101M2-1 PFC ICV 17J2704	8.39e3	100.4	NO
2	2	13C5-PFHxA	ICV171101M2-1 PFC ICV 17J2704	1.07e4	96.7	NO
3	3	13C3-PFHxS	ICV171101M2-1 PFC ICV 17J2704	1.79e3	88.8	NO
4	4	13C8-PFOA	ICV171101M2-1 PFC ICV 17J2704	9.61e3	94.7	NO
5	5	13C9-PFNA	ICV171101M2-1 PFC ICV 17J2704	1.07e4	102.4	NO
6	6	13C4-PFOS	ICV171101M2-1 PFC ICV 17J2704	2.08e3	87.5	NO
7	7	13C6-PFDA	ICV171101M2-1 PFC ICV 17J2704	1.08e4	110.8	NO
8	8	13C7-PFUnA	ICV171101M2-1 PFC ICV 17J2704	1.18e4	117.0	NO

Name: 171101M2_14, Date: 01-Nov-2017, Time: 17:11:13, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

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Name: 171101M2_15, Date: 01-Nov-2017, Time: 17:22:30, ID: B7J0189-BS1 OPR 0.25, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0189-BS1 OPR 0.25	6.28e3	75.1	NO
2	2	13C5-PFHxA	B7J0189-BS1 OPR 0.25	8.15e3	73.7	NO
3	3	13C3-PFHxS	B7J0189-BS1 OPR 0.25	1.64e3	81.1	NO
4	4	13C8-PFOA	B7J0189-BS1 OPR 0.25	6.17e3	60.8	NO
5	5	13C9-PFNA	B7J0189-BS1 OPR 0.25	6.77e3	64.6	NO
6	6	13C4-PFOS	B7J0189-BS1 OPR 0.25	1.84e3	77.2	NO
7	7	13C6-PFDA	B7J0189-BS1 OPR 0.25	7.21e3	74.0	NO
8	8	13C7-PFUnA	B7J0189-BS1 OPR 0.25	9.31e3	91.9	NO

Name: 171101M2_16, Date: 01-Nov-2017, Time: 17:33:42, ID: B7J0189-BSD1 LCS Dup 0.25, Description: LCS Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0189-BSD1 LCS Dup 0.25	5.75e3	68.8	NO
2	2	13C5-PFHxA	B7J0189-BSD1 LCS Dup 0.25	7.37e3	66.7	NO
3	3	13C3-PFHxS	B7J0189-BSD1 LCS Dup 0.25	1.59e3	79.0	NO
4	4	13C8-PFOA	B7J0189-BSD1 LCS Dup 0.25	6.60e3	65.1	NO
5	5	13C9-PFNA	B7J0189-BSD1 LCS Dup 0.25	6.98e3	66.6	NO
6	6	13C4-PFOS	B7J0189-BSD1 LCS Dup 0.25	1.70e3	71.3	NO
7	7	13C6-PFDA	B7J0189-BSD1 LCS Dup 0.25	7.60e3	78.0	NO
8	8	13C7-PFUnA	B7J0189-BSD1 LCS Dup 0.25	7.82e3	77.3	NO

Name: 171101M2_17, Date: 01-Nov-2017, Time: 17:44:54, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_18, Date: 01-Nov-2017, Time: 17:56:08, ID: B7J0189-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0189-BLK1 Method Blank 0.25	5.46e3	65.4	NO
2	2	13C5-PFHxA	B7J0189-BLK1 Method Blank 0.25	7.15e3	64.7	NO
3	3	13C3-PFHxS	B7J0189-BLK1 Method Blank 0.25	1.41e3	69.8	NO
4	4	13C8-PFOA	B7J0189-BLK1 Method Blank 0.25	5.95e3	58.7	NO
5	5	13C9-PFNA	B7J0189-BLK1 Method Blank 0.25	6.21e3	59.3	NO
6	6	13C4-PFOS	B7J0189-BLK1 Method Blank 0.25	1.70e3	71.4	NO
7	7	13C6-PFDA	B7J0189-BLK1 Method Blank 0.25	7.74e3	79.4	NO
8	8	13C7-PFUnA	B7J0189-BLK1 Method Blank 0.25	7.84e3	77.4	NO

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Name: 171101M2_19, Date: 01-Nov-2017, Time: 18:07:45, ID: 1701522-01 WT1710190820JLB 0.25911, Description: WT1710190820JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-01 WT1710190820JLB 0.25911	5.24e3	62.7	NO
2	2	13C5-PFHxA	1701522-01 WT1710190820JLB 0.25911	6.81e3	61.6	NO
3	3	13C3-PFHxS	1701522-01 WT1710190820JLB 0.25911	1.40e3	69.4	NO
4	4	13C8-PFOA	1701522-01 WT1710190820JLB 0.25911	6.21e3	61.2	NO
5	5	13C9-PFNA	1701522-01 WT1710190820JLB 0.25911	6.81e3	65.0	NO
6	6	13C4-PFOS	1701522-01 WT1710190820JLB 0.25911	1.44e3	60.3	NO
7	7	13C6-PFDA	1701522-01 WT1710190820JLB 0.25911	6.91e3	70.9	NO
8	8	13C7-PFUnA	1701522-01 WT1710190820JLB 0.25911	6.02e3	59.4	NO

Name: 171101M2_20, Date: 01-Nov-2017, Time: 18:19:50, ID: 1701522-02 WT1710190840JLB 0.26878, Description: WT1710190840JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-02 WT1710190840JLB 0.26878	5.17e3	61.9	NO
2	2	13C5-PFHxA	1701522-02 WT1710190840JLB 0.26878	6.87e3	62.1	NO
3	3	13C3-PFHxS	1701522-02 WT1710190840JLB 0.26878	1.48e3	73.5	NO
4	4	13C8-PFOA	1701522-02 WT1710190840JLB 0.26878	5.57e3	54.9	NO
5	5	13C9-PFNA	1701522-02 WT1710190840JLB 0.26878	7.09e3	67.6	NO
6	6	13C4-PFOS	1701522-02 WT1710190840JLB 0.26878	1.84e3	77.1	NO
7	7	13C6-PFDA	1701522-02 WT1710190840JLB 0.26878	6.49e3	66.6	NO
8	8	13C7-PFUnA	1701522-02 WT1710190840JLB 0.26878	6.95e3	68.6	NO

Name: 171101M2_21, Date: 01-Nov-2017, Time: 18:31:01, ID: 1701522-03 WT1710190900JLB 0.26607, Description: WT1710190900JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-03 WT1710190900JLB 0.26607	5.64e3	67.5	NO
2	2	13C5-PFHxA	1701522-03 WT1710190900JLB 0.26607	7.44e3	67.4	NO
3	3	13C3-PFHxS	1701522-03 WT1710190900JLB 0.26607	1.36e3	67.4	NO
4	4	13C8-PFOA	1701522-03 WT1710190900JLB 0.26607	5.64e3	55.7	NO
5	5	13C9-PFNA	1701522-03 WT1710190900JLB 0.26607	6.49e3	61.9	NO
6	6	13C4-PFOS	1701522-03 WT1710190900JLB 0.26607	1.62e3	67.9	NO
7	7	13C6-PFDA	1701522-03 WT1710190900JLB 0.26607	7.18e3	73.7	NO
8	8	13C7-PFUnA	1701522-03 WT1710190900JLB 0.26607	8.62e3	85.1	NO

Name: 171101M2_22, Date: 01-Nov-2017, Time: 18:42:12, ID: 1701522-04 WT1710190910JLB 0.26933, Description: WT1710190910JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-04 WT1710190910JLB 0.26933	5.30e3	63.5	NO
2	2	13C5-PFHxA	1701522-04 WT1710190910JLB 0.26933	6.61e3	59.9	NO
3	3	13C3-PFHxS	1701522-04 WT1710190910JLB 0.26933	1.51e3	74.9	NO
4	4	13C8-PFOA	1701522-04 WT1710190910JLB 0.26933	5.38e3	53.0	NO
5	5	13C9-PFNA	1701522-04 WT1710190910JLB 0.26933	6.23e3	59.5	NO
6	6	13C4-PFOS	1701522-04 WT1710190910JLB 0.26933	1.47e3	61.6	NO
7	7	13C6-PFDA	1701522-04 WT1710190910JLB 0.26933	6.80e3	69.8	NO
8	8	13C7-PFUnA	1701522-04 WT1710190910JLB 0.26933	7.85e3	77.5	NO

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Name: 171101M2_23, Date: 01-Nov-2017, Time: 18:53:22, ID: 1701522-05 WT1710190930JLB 0.26129, Description: WT1710190930JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-05 WT1710190930JLB 0.26129	5.32e3	63.7	NO
2	2	13C5-PFHxA	1701522-05 WT1710190930JLB 0.26129	7.09e3	64.2	NO
3	3	13C3-PFHxS	1701522-05 WT1710190930JLB 0.26129	1.60e3	79.3	NO
4	4	13C8-PFOA	1701522-05 WT1710190930JLB 0.26129	5.49e3	54.2	NO
5	5	13C9-PFNA	1701522-05 WT1710190930JLB 0.26129	6.90e3	65.8	NO
6	6	13C4-PFOS	1701522-05 WT1710190930JLB 0.26129	1.55e3	65.1	NO
7	7	13C6-PFDA	1701522-05 WT1710190930JLB 0.26129	7.12e3	73.0	NO
8	8	13C7-PFUnA	1701522-05 WT1710190930JLB 0.26129	7.40e3	73.1	NO

Name: 171101M2_24, Date: 01-Nov-2017, Time: 19:04:33, ID: 1701522-06 WT1710190945JLB 0.27029, Description: WT1710190945JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-06 WT1710190945JLB 0.27029	4.20e3	50.2	NO
2	2	13C5-PFHxA	1701522-06 WT1710190945JLB 0.27029	5.39e3	48.8	YES
3	3	13C3-PFHxS	1701522-06 WT1710190945JLB 0.27029	1.36e3	67.2	NO
4	4	13C8-PFOA	1701522-06 WT1710190945JLB 0.27029	5.25e3	51.7	NO
5	5	13C9-PFNA	1701522-06 WT1710190945JLB 0.27029	5.44e3	51.9	NO
6	6	13C4-PFOS	1701522-06 WT1710190945JLB 0.27029	1.25e3	52.6	NO
7	7	13C6-PFDA	1701522-06 WT1710190945JLB 0.27029	5.07e3	52.1	NO
8	8	13C7-PFUnA	1701522-06 WT1710190945JLB 0.27029	5.60e3	55.4	NO

Name: 171101M2_25, Date: 01-Nov-2017, Time: 19:15:44, ID: 1701522-07 WT1710191005JLB 0.25706, Description: WT1710191005JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-07 WT1710191005JLB 0.25706	5.03e3	60.2	NO
2	2	13C5-PFHxA	1701522-07 WT1710191005JLB 0.25706	6.70e3	60.6	NO
3	3	13C3-PFHxS	1701522-07 WT1710191005JLB 0.25706	1.42e3	70.1	NO
4	4	13C8-PFOA	1701522-07 WT1710191005JLB 0.25706	5.44e3	53.7	NO
5	5	13C9-PFNA	1701522-07 WT1710191005JLB 0.25706	6.68e3	63.8	NO
6	6	13C4-PFOS	1701522-07 WT1710191005JLB 0.25706	1.60e3	67.4	NO
7	7	13C6-PFDA	1701522-07 WT1710191005JLB 0.25706	6.83e3	70.2	NO
8	8	13C7-PFUnA	1701522-07 WT1710191005JLB 0.25706	6.25e3	61.7	NO

Name: 171101M2_26, Date: 01-Nov-2017, Time: 19:26:54, ID: 1701522-08 WT1710191210JLB 0.25294, Description: WT1710191210JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-08 WT1710191210JLB 0.25294	4.94e3	59.1	NO
2	2	13C5-PFHxA	1701522-08 WT1710191210JLB 0.25294	6.57e3	59.4	NO
3	3	13C3-PFHxS	1701522-08 WT1710191210JLB 0.25294	1.34e3	66.4	NO
4	4	13C8-PFOA	1701522-08 WT1710191210JLB 0.25294	4.69e3	46.2	YES
5	5	13C9-PFNA	1701522-08 WT1710191210JLB 0.25294	6.40e3	61.0	NO
6	6	13C4-PFOS	1701522-08 WT1710191210JLB 0.25294	1.41e3	59.1	NO
7	7	13C6-PFDA	1701522-08 WT1710191210JLB 0.25294	7.11e3	72.9	NO
8	8	13C7-PFUnA	1701522-08 WT1710191210JLB 0.25294	7.39e3	73.0	NO

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Name: 171101M2_27, Date: 01-Nov-2017, Time: 19:38:13, ID: 1701522-09 FB1710191215JLB 0.2746, Description: FB1710191215JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701522-09 FB1710191215JLB 0.2746	5.30e3	63.4	NO
2	2	13C5-PFHxA	1701522-09 FB1710191215JLB 0.2746	6.62e3	59.9	NO
3	3	13C3-PFHxS	1701522-09 FB1710191215JLB 0.2746	1.40e3	69.4	NO
4	4	13C8-PFOA	1701522-09 FB1710191215JLB 0.2746	5.10e3	50.3	NO
5	5	13C9-PFNA	1701522-09 FB1710191215JLB 0.2746	6.69e3	63.8	NO
6	6	13C4-PFOS	1701522-09 FB1710191215JLB 0.2746	1.68e3	70.5	NO
7	7	13C6-PFDA	1701522-09 FB1710191215JLB 0.2746	6.99e3	71.7	NO
8	8	13C7-PFUnA	1701522-09 FB1710191215JLB 0.2746	7.74e3	76.4	NO

Name: 171101M2_28, Date: 01-Nov-2017, Time: 19:49:35, ID: 1701537-01 WR1710201240 JLB 0.26737, Description: WR1710201240 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-01 WR1710201240 JLB 0.267...	4.52e3	54.1	NO
2	2	13C5-PFHxA	1701537-01 WR1710201240 JLB 0.267...	6.02e3	54.5	NO
3	3	13C3-PFHxS	1701537-01 WR1710201240 JLB 0.267...	1.35e3	66.7	NO
4	4	13C8-PFOA	1701537-01 WR1710201240 JLB 0.267...	4.51e3	44.4	YES
5	5	13C9-PFNA	1701537-01 WR1710201240 JLB 0.267...	5.85e3	55.9	NO
6	6	13C4-PFOS	1701537-01 WR1710201240 JLB 0.267...	1.37e3	57.6	NO
7	7	13C6-PFDA	1701537-01 WR1710201240 JLB 0.267...	6.61e3	67.9	NO
8	8	13C7-PFUnA	1701537-01 WR1710201240 JLB 0.267...	7.33e3	72.4	NO

Name: 171101M2_29, Date: 01-Nov-2017, Time: 20:00:46, ID: 1701537-02 WR1710201255 JLB 0.26932, Description: WR1710201255 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-02 WR1710201255 JLB 0.269...	4.92e3	58.8	NO
2	2	13C5-PFHxA	1701537-02 WR1710201255 JLB 0.269...	6.60e3	59.7	NO
3	3	13C3-PFHxS	1701537-02 WR1710201255 JLB 0.269...	1.28e3	63.3	NO
4	4	13C8-PFOA	1701537-02 WR1710201255 JLB 0.269...	5.37e3	53.0	NO
5	5	13C9-PFNA	1701537-02 WR1710201255 JLB 0.269...	6.15e3	58.7	NO
6	6	13C4-PFOS	1701537-02 WR1710201255 JLB 0.269...	1.33e3	55.9	NO
7	7	13C6-PFDA	1701537-02 WR1710201255 JLB 0.269...	6.74e3	69.1	NO
8	8	13C7-PFUnA	1701537-02 WR1710201255 JLB 0.269...	7.49e3	73.9	NO

Name: 171101M2_30, Date: 01-Nov-2017, Time: 20:11:56, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

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Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-11 PFC CS3 17J2709	8.56e3	102.5	NO
2	2	13C5-PFHxA	ST171101M2-11 PFC CS3 17J2709	1.08e4	97.8	NO
3	3	13C3-PFHxS	ST171101M2-11 PFC CS3 17J2709	2.11e3	104.4	NO
4	4	13C8-PFOA	ST171101M2-11 PFC CS3 17J2709	9.25e3	91.2	NO
5	5	13C9-PFNA	ST171101M2-11 PFC CS3 17J2709	1.03e4	97.9	NO
6	6	13C4-PFOS	ST171101M2-11 PFC CS3 17J2709	1.93e3	81.2	NO
7	7	13C6-PFDA	ST171101M2-11 PFC CS3 17J2709	9.39e3	96.4	NO
8	8	13C7-PFUnA	ST171101M2-11 PFC CS3 17J2709	1.01e4	99.9	NO

Name: 171101M2_32, Date: 01-Nov-2017, Time: 20:34:18, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_33, Date: 01-Nov-2017, Time: 20:45:28, ID: 1701537-03 WR1710201320 JLB 0.26245, Description: WR1710201320 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-03 WR1710201320 JLB 0.262...	4.35e3	52.0	NO
2	2	13C5-PFHxA	1701537-03 WR1710201320 JLB 0.262...	5.60e3	50.7	NO
3	3	13C3-PFHxS	1701537-03 WR1710201320 JLB 0.262...	1.14e3	56.4	NO
4	4	13C8-PFOA	1701537-03 WR1710201320 JLB 0.262...	4.83e3	47.6	YES
5	5	13C9-PFNA	1701537-03 WR1710201320 JLB 0.262...	6.03e3	57.6	NO
6	6	13C4-PFOS	1701537-03 WR1710201320 JLB 0.262...	1.38e3	57.8	NO
7	7	13C6-PFDA	1701537-03 WR1710201320 JLB 0.262...	5.71e3	58.6	NO
8	8	13C7-PFUnA	1701537-03 WR1710201320 JLB 0.262...	6.50e3	64.2	NO

Name: 171101M2_34, Date: 01-Nov-2017, Time: 20:56:39, ID: 1701537-04 WR1710201330 JLB 0.24745, Description: WR1710201330 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-04 WR1710201330 JLB 0.247...	4.73e3	56.6	NO
2	2	13C5-PFHxA	1701537-04 WR1710201330 JLB 0.247...	5.93e3	53.7	NO
3	3	13C3-PFHxS	1701537-04 WR1710201330 JLB 0.247...	1.33e3	66.1	NO
4	4	13C8-PFOA	1701537-04 WR1710201330 JLB 0.247...	5.52e3	54.4	NO
5	5	13C9-PFNA	1701537-04 WR1710201330 JLB 0.247...	5.35e3	51.1	NO
6	6	13C4-PFOS	1701537-04 WR1710201330 JLB 0.247...	1.46e3	61.2	NO
7	7	13C6-PFDA	1701537-04 WR1710201330 JLB 0.247...	7.25e3	74.4	NO
8	8	13C7-PFUnA	1701537-04 WR1710201330 JLB 0.247...	7.32e3	72.3	NO

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Name: 171101M2_35, Date: 01-Nov-2017, Time: 21:07:50, ID: 1701537-05 WR1710201350 JLB 0.25593, Description: WR1710201350 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-05 WR1710201350 JLB 0.255...	5.28e3	63.2	NO
2	2	13C5-PFHxA	1701537-05 WR1710201350 JLB 0.255...	6.38e3	57.8	NO
3	3	13C3-PFHxS	1701537-05 WR1710201350 JLB 0.255...	1.45e3	72.1	NO
4	4	13C8-PFOA	1701537-05 WR1710201350 JLB 0.255...	5.57e3	54.9	NO
5	5	13C9-PFNA	1701537-05 WR1710201350 JLB 0.255...	6.25e3	59.7	NO
6	6	13C4-PFOS	1701537-05 WR1710201350 JLB 0.255...	1.55e3	65.2	NO
7	7	13C6-PFDA	1701537-05 WR1710201350 JLB 0.255...	5.94e3	60.9	NO
8	8	13C7-PFUnA	1701537-05 WR1710201350 JLB 0.255...	6.16e3	60.8	NO

Name: 171101M2_36, Date: 01-Nov-2017, Time: 21:19:01, ID: 1701537-06 WR1710201405 JLB 0.26582, Description: WR1710201405 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-06 WR1710201405 JLB 0.265...	4.73e3	56.7	NO
2	2	13C5-PFHxA	1701537-06 WR1710201405 JLB 0.265...	6.26e3	56.7	NO
3	3	13C3-PFHxS	1701537-06 WR1710201405 JLB 0.265...	1.37e3	67.9	NO
4	4	13C8-PFOA	1701537-06 WR1710201405 JLB 0.265...	4.72e3	46.5	YES
5	5	13C9-PFNA	1701537-06 WR1710201405 JLB 0.265...	6.79e3	64.8	NO
6	6	13C4-PFOS	1701537-06 WR1710201405 JLB 0.265...	1.59e3	66.9	NO
7	7	13C6-PFDA	1701537-06 WR1710201405 JLB 0.265...	5.55e3	57.0	NO
8	8	13C7-PFUnA	1701537-06 WR1710201405 JLB 0.265...	8.14e3	80.4	NO

Name: 171101M2_37, Date: 01-Nov-2017, Time: 21:30:11, ID: 1701537-07 WR1710201440 JLB 0.26127, Description: WR1710201440 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-07 WR1710201440 JLB 0.261...	5.10e3	61.0	NO
2	2	13C5-PFHxA	1701537-07 WR1710201440 JLB 0.261...	6.97e3	63.1	NO
3	3	13C3-PFHxS	1701537-07 WR1710201440 JLB 0.261...	1.34e3	66.5	NO
4	4	13C8-PFOA	1701537-07 WR1710201440 JLB 0.261...	5.29e3	52.2	NO
5	5	13C9-PFNA	1701537-07 WR1710201440 JLB 0.261...	6.15e3	58.7	NO
6	6	13C4-PFOS	1701537-07 WR1710201440 JLB 0.261...	1.64e3	68.7	NO
7	7	13C6-PFDA	1701537-07 WR1710201440 JLB 0.261...	6.91e3	70.9	NO
8	8	13C7-PFUnA	1701537-07 WR1710201440 JLB 0.261...	7.10e3	70.1	NO

Name: 171101M2_38, Date: 01-Nov-2017, Time: 21:41:22, ID: 1701537-08 FB1710201445 JLB 0.2699, Description: FB1710201445 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-08 FB1710201445 JLB 0.2699	5.51e3	65.9	NO
2	2	13C5-PFHxA	1701537-08 FB1710201445 JLB 0.2699	7.54e3	68.2	NO
3	3	13C3-PFHxS	1701537-08 FB1710201445 JLB 0.2699	1.62e3	80.4	NO
4	4	13C8-PFOA	1701537-08 FB1710201445 JLB 0.2699	5.94e3	58.5	NO
5	5	13C9-PFNA	1701537-08 FB1710201445 JLB 0.2699	6.71e3	64.1	NO
6	6	13C4-PFOS	1701537-08 FB1710201445 JLB 0.2699	1.67e3	70.3	NO
7	7	13C6-PFDA	1701537-08 FB1710201445 JLB 0.2699	6.80e3	69.8	NO
8	8	13C7-PFUnA	1701537-08 FB1710201445 JLB 0.2699	8.87e3	87.6	NO

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Name: 171101M2_39, Date: 01-Nov-2017, Time: 21:52:33, ID: 1701537-09 WR1710201515 JLB 0.26402, Description: WR1710201515 JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701537-09 WR1710201515 JLB 0.264...	5.33e3	63.8	NO
2	2	13C5-PFHxA	1701537-09 WR1710201515 JLB 0.264...	6.99e3	63.3	NO
3	3	13C3-PFHxS	1701537-09 WR1710201515 JLB 0.264...	1.40e3	69.4	NO
4	4	13C8-PFOA	1701537-09 WR1710201515 JLB 0.264...	5.56e3	54.8	NO
5	5	13C9-PFNA	1701537-09 WR1710201515 JLB 0.264...	6.85e3	65.4	NO
6	6	13C4-PFOS	1701537-09 WR1710201515 JLB 0.264...	1.62e3	67.9	NO
7	7	13C6-PFDA	1701537-09 WR1710201515 JLB 0.264...	6.66e3	68.3	NO
8	8	13C7-PFUnA	1701537-09 WR1710201515 JLB 0.264...	7.39e3	73.0	NO

Name: 171101M2_40, Date: 01-Nov-2017, Time: 22:03:44, ID: B7J0197-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0197-BS1 OPR 0.125	5.68e3	68.0	NO
2	2	13C5-PFHxA	B7J0197-BS1 OPR 0.125	7.82e3	70.7	NO
3	3	13C3-PFHxS	B7J0197-BS1 OPR 0.125	1.44e3	71.5	NO
4	4	13C8-PFOA	B7J0197-BS1 OPR 0.125	7.00e3	69.0	NO
5	5	13C9-PFNA	B7J0197-BS1 OPR 0.125	6.23e3	59.4	NO
6	6	13C4-PFOS	B7J0197-BS1 OPR 0.125	1.64e3	68.7	NO
7	7	13C6-PFDA	B7J0197-BS1 OPR 0.125	6.51e3	66.9	NO
8	8	13C7-PFUnA	B7J0197-BS1 OPR 0.125	9.04e3	89.3	NO

Name: 171101M2_41, Date: 01-Nov-2017, Time: 22:14:54, ID: B7J0204-BS1 OPR 0.25, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0204-BS1 OPR 0.25	4.80e3	57.5	NO
2	2	13C5-PFHxA	B7J0204-BS1 OPR 0.25	6.83e3	61.8	NO
3	3	13C3-PFHxS	B7J0204-BS1 OPR 0.25	1.47e3	72.8	NO
4	4	13C8-PFOA	B7J0204-BS1 OPR 0.25	5.11e3	50.4	NO
5	5	13C9-PFNA	B7J0204-BS1 OPR 0.25	6.55e3	62.5	NO
6	6	13C4-PFOS	B7J0204-BS1 OPR 0.25	1.38e3	58.1	NO
7	7	13C6-PFDA	B7J0204-BS1 OPR 0.25	5.80e3	59.5	NO
8	8	13C7-PFUnA	B7J0204-BS1 OPR 0.25	7.07e3	69.8	NO

Name: 171101M2_42, Date: 01-Nov-2017, Time: 22:26:09, ID: B7J0206-BS1 OPR 0.25, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0206-BS1 OPR 0.25	1.27e4	76.0	NO
2	2	13C5-PFHxA	B7J0206-BS1 OPR 0.25	1.66e4	75.2	NO
3	3	13C3-PFHxS	B7J0206-BS1 OPR 0.25	3.60e3	89.2	NO
4	4	13C8-PFOA	B7J0206-BS1 OPR 0.25	1.26e4	62.1	NO
5	5	13C9-PFNA	B7J0206-BS1 OPR 0.25	1.44e4	68.5	NO
6	6	13C4-PFOS	B7J0206-BS1 OPR 0.25	3.38e3	71.1	NO
7	7	13C6-PFDA	B7J0206-BS1 OPR 0.25	1.88e4	96.6	NO
8	8	13C7-PFUnA	B7J0206-BS1 OPR 0.25	1.66e4	81.9	NO

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Name: 171101M2_43, Date: 01-Nov-2017, Time: 22:37:43, ID: B7K0005-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7K0005-BS1 OPR 0.125	6.36e3	76.1	NO
2	2	13C5-PFHxA	B7K0005-BS1 OPR 0.125	8.55e3	77.3	NO
3	3	13C3-PFHxS	B7K0005-BS1 OPR 0.125	1.74e3	86.0	NO
4	4	13C8-PFOA	B7K0005-BS1 OPR 0.125	7.39e3	72.9	NO
5	5	13C9-PFNA	B7K0005-BS1 OPR 0.125	7.40e3	70.6	NO
6	6	13C4-PFOS	B7K0005-BS1 OPR 0.125	1.55e3	65.0	NO
7	7	13C6-PFDA	B7K0005-BS1 OPR 0.125	7.04e3	72.2	NO
8	8	13C7-PFUnA	B7K0005-BS1 OPR 0.125	9.20e3	90.8	NO

Name: 171101M2_44, Date: 01-Nov-2017, Time: 22:49:08, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_45, Date: 01-Nov-2017, Time: 23:00:18, ID: B7J0197-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0197-BLK1 Method Blank 0.125	6.27e3	75.1	NO
2	2	13C5-PFHxA	B7J0197-BLK1 Method Blank 0.125	8.21e3	74.3	NO
3	3	13C3-PFHxS	B7J0197-BLK1 Method Blank 0.125	1.58e3	78.2	NO
4	4	13C8-PFOA	B7J0197-BLK1 Method Blank 0.125	6.79e3	66.9	NO
5	5	13C9-PFNA	B7J0197-BLK1 Method Blank 0.125	8.18e3	78.1	NO
6	6	13C4-PFOS	B7J0197-BLK1 Method Blank 0.125	1.60e3	67.3	NO
7	7	13C6-PFDA	B7J0197-BLK1 Method Blank 0.125	8.19e3	84.1	NO
8	8	13C7-PFUnA	B7J0197-BLK1 Method Blank 0.125	8.60e3	84.9	NO

Name: 171101M2_46, Date: 01-Nov-2017, Time: 23:11:29, ID: B7J0204-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0204-BLK1 Method Blank 0.25	4.97e3	59.5	NO
2	2	13C5-PFHxA	B7J0204-BLK1 Method Blank 0.25	6.80e3	61.5	NO
3	3	13C3-PFHxS	B7J0204-BLK1 Method Blank 0.25	1.32e3	65.4	NO
4	4	13C8-PFOA	B7J0204-BLK1 Method Blank 0.25	5.74e3	56.6	NO
5	5	13C9-PFNA	B7J0204-BLK1 Method Blank 0.25	6.03e3	57.6	NO
6	6	13C4-PFOS	B7J0204-BLK1 Method Blank 0.25	1.61e3	67.7	NO
7	7	13C6-PFDA	B7J0204-BLK1 Method Blank 0.25	6.57e3	67.5	NO
8	8	13C7-PFUnA	B7J0204-BLK1 Method Blank 0.25	6.96e3	68.8	NO

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Name: 171101M2_47, Date: 01-Nov-2017, Time: 23:22:40, ID: B7J0206-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0206-BLK1 Method Blank 0.25	1.12e4	133.6	NO
2	2	13C5-PFHxA	B7J0206-BLK1 Method Blank 0.25	1.40e4	126.4	NO
3	3	13C3-PFHxS	B7J0206-BLK1 Method Blank 0.25	3.21e3	159.2	YES
4	4	13C8-PFOA	B7J0206-BLK1 Method Blank 0.25	1.40e4	138.4	NO
5	5	13C9-PFNA	B7J0206-BLK1 Method Blank 0.25	1.55e4	148.0	NO
6	6	13C4-PFOS	B7J0206-BLK1 Method Blank 0.25	3.43e3	144.0	NO
7	7	13C6-PFDA	B7J0206-BLK1 Method Blank 0.25	1.52e4	156.1	YES
8	8	13C7-PFUnA	B7J0206-BLK1 Method Blank 0.25	1.77e4	175.3	YES

Name: 171101M2_48, Date: 01-Nov-2017, Time: 23:33:51, ID: B7K0005-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7K0005-BLK1 Method Blank 0.125	6.92e3	82.9	NO
2	2	13C5-PFHxA	B7K0005-BLK1 Method Blank 0.125	9.33e3	84.4	NO
3	3	13C3-PFHxS	B7K0005-BLK1 Method Blank 0.125	1.75e3	86.5	NO
4	4	13C8-PFOA	B7K0005-BLK1 Method Blank 0.125	7.65e3	75.4	NO
5	5	13C9-PFNA	B7K0005-BLK1 Method Blank 0.125	8.35e3	79.7	NO
6	6	13C4-PFOS	B7K0005-BLK1 Method Blank 0.125	1.76e3	73.8	NO
7	7	13C6-PFDA	B7K0005-BLK1 Method Blank 0.125	8.66e3	88.9	NO
8	8	13C7-PFUnA	B7K0005-BLK1 Method Blank 0.125	9.18e3	90.7	NO

Name: 171101M2_49, Date: 01-Nov-2017, Time: 23:45:02, ID: B7J0197-MS1 Matrix Spike 0.11658, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0197-MS1 Matrix Spike 0.11658	4.95e3	59.2	NO
2	2	13C5-PFHxA	B7J0197-MS1 Matrix Spike 0.11658	7.06e3	63.9	NO
3	3	13C3-PFHxS	B7J0197-MS1 Matrix Spike 0.11658	1.57e3	77.9	NO
4	4	13C8-PFOA	B7J0197-MS1 Matrix Spike 0.11658	5.59e3	55.1	NO
5	5	13C9-PFNA	B7J0197-MS1 Matrix Spike 0.11658	6.20e3	59.1	NO
6	6	13C4-PFOS	B7J0197-MS1 Matrix Spike 0.11658	1.53e3	64.2	NO
7	7	13C6-PFDA	B7J0197-MS1 Matrix Spike 0.11658	7.67e3	78.8	NO
8	8	13C7-PFUnA	B7J0197-MS1 Matrix Spike 0.11658	7.99e3	78.9	NO

Name: 171101M2_50, Date: 01-Nov-2017, Time: 23:56:12, ID: B7J0197-MSD1 Matrix Spike Dup 0.11996, Description: Matrix Spike Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0197-MSD1 Matrix Spike Dup 0.11996	4.74e3	56.7	NO
2	2	13C5-PFHxA	B7J0197-MSD1 Matrix Spike Dup 0.11996	6.41e3	58.0	NO
3	3	13C3-PFHxS	B7J0197-MSD1 Matrix Spike Dup 0.11996	1.37e3	67.8	NO
4	4	13C8-PFOA	B7J0197-MSD1 Matrix Spike Dup 0.11996	5.52e3	54.4	NO
5	5	13C9-PFNA	B7J0197-MSD1 Matrix Spike Dup 0.11996	6.88e3	65.7	NO
6	6	13C4-PFOS	B7J0197-MSD1 Matrix Spike Dup 0.11996	1.62e3	67.9	NO
7	7	13C6-PFDA	B7J0197-MSD1 Matrix Spike Dup 0.11996	7.66e3	78.6	NO
8	8	13C7-PFUnA	B7J0197-MSD1 Matrix Spike Dup 0.11996	7.92e3	78.2	NO

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Name: 171101M2_51, Date: 02-Nov-2017, Time: 00:07:23, ID: 1701549-01 YS22-GW11-1017 0.11734, Description: YS22-GW11-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-01 YS22-GW11-1017 0.11734	5.22e3	62.5	NO
2	2	13C5-PFHxA	1701549-01 YS22-GW11-1017 0.11734	6.27e3	56.8	NO
3	3	13C3-PFHxS	1701549-01 YS22-GW11-1017 0.11734	1.28e3	63.2	NO
4	4	13C8-PFOA	1701549-01 YS22-GW11-1017 0.11734	5.82e3	57.4	NO
5	5	13C9-PFNA	1701549-01 YS22-GW11-1017 0.11734	6.33e3	60.4	NO
6	6	13C4-PFOS	1701549-01 YS22-GW11-1017 0.11734	1.47e3	61.8	NO
7	7	13C6-PFDA	1701549-01 YS22-GW11-1017 0.11734	6.68e3	68.6	NO
8	8	13C7-PFUnA	1701549-01 YS22-GW11-1017 0.11734	6.97e3	68.9	NO

Name: 171101M2_52, Date: 02-Nov-2017, Time: 00:18:36, ID: 1701549-02 YS22-GW11A-1017 0.11617, Description: YS22-GW11A-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-02 YS22-GW11A-1017 0.11617	5.47e3	65.4	NO
2	2	13C5-PFHxA	1701549-02 YS22-GW11A-1017 0.11617	7.41e3	67.1	NO
3	3	13C3-PFHxS	1701549-02 YS22-GW11A-1017 0.11617	1.61e3	79.8	NO
4	4	13C8-PFOA	1701549-02 YS22-GW11A-1017 0.11617	6.31e3	62.2	NO
5	5	13C9-PFNA	1701549-02 YS22-GW11A-1017 0.11617	7.54e3	72.0	NO
6	6	13C4-PFOS	1701549-02 YS22-GW11A-1017 0.11617	1.38e3	57.8	NO
7	7	13C6-PFDA	1701549-02 YS22-GW11A-1017 0.11617	8.12e3	83.4	NO
8	8	13C7-PFUnA	1701549-02 YS22-GW11A-1017 0.11617	7.99e3	78.9	NO

Name: 171101M2_53, Date: 02-Nov-2017, Time: 00:29:57, ID: 1701549-03 YS22-EB01-102317 0.11792, Description: YS22-EB01-102317

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-03 YS22-EB01-102317 0.11792	5.08e3	60.8	NO
2	2	13C5-PFHxA	1701549-03 YS22-EB01-102317 0.11792	6.87e3	62.2	NO
3	3	13C3-PFHxS	1701549-03 YS22-EB01-102317 0.11792	1.41e3	69.9	NO
4	4	13C8-PFOA	1701549-03 YS22-EB01-102317 0.11792	5.31e3	52.3	NO
5	5	13C9-PFNA	1701549-03 YS22-EB01-102317 0.11792	6.42e3	61.3	NO
6	6	13C4-PFOS	1701549-03 YS22-EB01-102317 0.11792	1.63e3	68.5	NO
7	7	13C6-PFDA	1701549-03 YS22-EB01-102317 0.11792	7.25e3	74.4	NO
8	8	13C7-PFUnA	1701549-03 YS22-EB01-102317 0.11792	8.40e3	82.9	NO

Name: 171101M2_54, Date: 02-Nov-2017, Time: 00:41:11, ID: 1701549-04 YS22-GW06-1017 0.12012, Description: YS22-GW06-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-04 YS22-GW06-1017 0.12012	5.10e3	61.1	NO
2	2	13C5-PFHxA	1701549-04 YS22-GW06-1017 0.12012	6.67e3	60.4	NO
3	3	13C3-PFHxS	1701549-04 YS22-GW06-1017 0.12012	1.42e3	70.4	NO
4	4	13C8-PFOA	1701549-04 YS22-GW06-1017 0.12012	5.73e3	56.5	NO
5	5	13C9-PFNA	1701549-04 YS22-GW06-1017 0.12012	6.87e3	65.6	NO
6	6	13C4-PFOS	1701549-04 YS22-GW06-1017 0.12012	1.84e3	77.5	NO
7	7	13C6-PFDA	1701549-04 YS22-GW06-1017 0.12012	8.00e3	82.1	NO
8	8	13C7-PFUnA	1701549-04 YS22-GW06-1017 0.12012	7.97e3	78.7	NO

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Name: 171101M2_55, Date: 02-Nov-2017, Time: 00:52:22, ID: 1701549-05 YS22-GW04-1017 0.11633, Description: YS22-GW04-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-05 YS22-GW04-1017 0.11633	5.57e3	66.7	NO
2	2	13C5-PFHxA	1701549-05 YS22-GW04-1017 0.11633	6.91e3	62.6	NO
3	3	13C3-PFHxS	1701549-05 YS22-GW04-1017 0.11633	1.46e3	72.2	NO
4	4	13C8-PFOA	1701549-05 YS22-GW04-1017 0.11633	6.73e3	66.4	NO
5	5	13C9-PFNA	1701549-05 YS22-GW04-1017 0.11633	6.91e3	65.9	NO
6	6	13C4-PFOS	1701549-05 YS22-GW04-1017 0.11633	1.65e3	69.3	NO
7	7	13C6-PFDA	1701549-05 YS22-GW04-1017 0.11633	9.25e3	95.0	NO
8	8	13C7-PFUnA	1701549-05 YS22-GW04-1017 0.11633	8.55e3	84.5	NO

Name: 171101M2_56, Date: 02-Nov-2017, Time: 01:03:33, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-12 PFC CS3 17J2709	8.60e3	102.9	NO
2	2	13C5-PFHxA	ST171101M2-12 PFC CS3 17J2709	1.10e4	99.3	NO
3	3	13C3-PFHxS	ST171101M2-12 PFC CS3 17J2709	2.05e3	101.8	NO
4	4	13C8-PFOA	ST171101M2-12 PFC CS3 17J2709	9.77e3	96.3	NO
5	5	13C9-PFNA	ST171101M2-12 PFC CS3 17J2709	1.08e4	102.7	NO
6	6	13C4-PFOS	ST171101M2-12 PFC CS3 17J2709	2.09e3	87.9	NO
7	7	13C6-PFDA	ST171101M2-12 PFC CS3 17J2709	1.13e4	115.8	NO
8	8	13C7-PFUnA	ST171101M2-12 PFC CS3 17J2709	1.20e4	118.2	NO

Name: 171101M2_58, Date: 02-Nov-2017, Time: 01:25:54, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

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Name: 171101M2_59, Date: 02-Nov-2017, Time: 01:37:05, ID: 1701549-06 YS22-GW07-1017 0.1137, Description: YS22-GW07-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-06 YS22-GW07-1017 0.1137	5.31e3	63.6	NO
2	2	13C5-PFHxA	1701549-06 YS22-GW07-1017 0.1137	6.83e3	61.8	NO
3	3	13C3-PFHxS	1701549-06 YS22-GW07-1017 0.1137	1.52e3	75.4	NO
4	4	13C8-PFOA	1701549-06 YS22-GW07-1017 0.1137	5.94e3	58.5	NO
5	5	13C9-PFNA	1701549-06 YS22-GW07-1017 0.1137	7.11e3	67.8	NO
6	6	13C4-PFOS	1701549-06 YS22-GW07-1017 0.1137	1.59e3	66.9	NO
7	7	13C6-PFDA	1701549-06 YS22-GW07-1017 0.1137	7.30e3	74.9	NO
8	8	13C7-PFUnA	1701549-06 YS22-GW07-1017 0.1137	8.94e3	88.3	NO

Name: 171101M2_60, Date: 02-Nov-2017, Time: 01:48:16, ID: 1701549-07 YS22-GW12-1017 0.11742, Description: YS22-GW12-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-07 YS22-GW12-1017 0.11742	4.79e3	57.4	NO
2	2	13C5-PFHxA	1701549-07 YS22-GW12-1017 0.11742	7.14e3	64.6	NO
3	3	13C3-PFHxS	1701549-07 YS22-GW12-1017 0.11742	1.49e3	73.7	NO
4	4	13C8-PFOA	1701549-07 YS22-GW12-1017 0.11742	5.88e3	58.0	NO
5	5	13C9-PFNA	1701549-07 YS22-GW12-1017 0.11742	7.65e3	73.0	NO
6	6	13C4-PFOS	1701549-07 YS22-GW12-1017 0.11742	1.53e3	64.2	NO
7	7	13C6-PFDA	1701549-07 YS22-GW12-1017 0.11742	5.94e3	60.9	NO
8	8	13C7-PFUnA	1701549-07 YS22-GW12-1017 0.11742	8.13e3	80.3	NO

Name: 171101M2_61, Date: 02-Nov-2017, Time: 01:59:26, ID: 1701549-08 YS22-GW12P-1017 0.11797, Description: YS22-GW12P-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-08 YS22-GW12P-1017 0.11797	5.12e3	61.3	NO
2	2	13C5-PFHxA	1701549-08 YS22-GW12P-1017 0.11797	7.19e3	65.1	NO
3	3	13C3-PFHxS	1701549-08 YS22-GW12P-1017 0.11797	1.42e3	70.3	NO
4	4	13C8-PFOA	1701549-08 YS22-GW12P-1017 0.11797	6.31e3	62.2	NO
5	5	13C9-PFNA	1701549-08 YS22-GW12P-1017 0.11797	6.90e3	65.9	NO
6	6	13C4-PFOS	1701549-08 YS22-GW12P-1017 0.11797	1.66e3	69.8	NO
7	7	13C6-PFDA	1701549-08 YS22-GW12P-1017 0.11797	7.49e3	76.8	NO
8	8	13C7-PFUnA	1701549-08 YS22-GW12P-1017 0.11797	7.71e3	76.2	NO

Name: 171101M2_62, Date: 02-Nov-2017, Time: 02:10:37, ID: 1701549-09 YS22-GW12A-1017 0.11618, Description: YS22-GW12A-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-09 YS22-GW12A-1017 0.11618	5.85e3	70.0	NO
2	2	13C5-PFHxA	1701549-09 YS22-GW12A-1017 0.11618	8.36e3	75.7	NO
3	3	13C3-PFHxS	1701549-09 YS22-GW12A-1017 0.11618	1.43e3	71.1	NO
4	4	13C8-PFOA	1701549-09 YS22-GW12A-1017 0.11618	6.55e3	64.6	NO
5	5	13C9-PFNA	1701549-09 YS22-GW12A-1017 0.11618	6.44e3	61.5	NO
6	6	13C4-PFOS	1701549-09 YS22-GW12A-1017 0.11618	1.73e3	72.5	NO
7	7	13C6-PFDA	1701549-09 YS22-GW12A-1017 0.11618	7.98e3	81.9	NO
8	8	13C7-PFUnA	1701549-09 YS22-GW12A-1017 0.11618	9.13e3	90.2	NO

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Name: 171101M2_63, Date: 02-Nov-2017, Time: 02:21:48, ID: 1701549-10 YS22-GW15-1017 0.11932, Description: YS22-GW15-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-10 YS22-GW15-1017 0.11932	5.29e3	63.4	NO
2	2	13C5-PFHxA	1701549-10 YS22-GW15-1017 0.11932	7.12e3	64.5	NO
3	3	13C3-PFHxS	1701549-10 YS22-GW15-1017 0.11932	1.55e3	76.6	NO
4	4	13C8-PFOA	1701549-10 YS22-GW15-1017 0.11932	5.07e3	50.0	NO
5	5	13C9-PFNA	1701549-10 YS22-GW15-1017 0.11932	6.70e3	63.9	NO
6	6	13C4-PFOS	1701549-10 YS22-GW15-1017 0.11932	1.50e3	62.9	NO
7	7	13C6-PFDA	1701549-10 YS22-GW15-1017 0.11932	7.68e3	78.8	NO
8	8	13C7-PFUnA	1701549-10 YS22-GW15-1017 0.11932	9.14e3	90.3	NO

Name: 171101M2_64, Date: 02-Nov-2017, Time: 02:32:58, ID: 1701549-11 YS22-GW15A-1017 0.11936, Description: YS22-GW15A-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-11 YS22-GW15A-1017 0.11936	4.79e3	57.3	NO
2	2	13C5-PFHxA	1701549-11 YS22-GW15A-1017 0.11936	6.44e3	58.3	NO
3	3	13C3-PFHxS	1701549-11 YS22-GW15A-1017 0.11936	1.32e3	65.4	NO
4	4	13C8-PFOA	1701549-11 YS22-GW15A-1017 0.11936	5.51e3	54.3	NO
5	5	13C9-PFNA	1701549-11 YS22-GW15A-1017 0.11936	6.16e3	58.8	NO
6	6	13C4-PFOS	1701549-11 YS22-GW15A-1017 0.11936	1.49e3	62.6	NO
7	7	13C6-PFDA	1701549-11 YS22-GW15A-1017 0.11936	5.80e3	59.5	NO
8	8	13C7-PFUnA	1701549-11 YS22-GW15A-1017 0.11936	7.13e3	70.4	NO

Name: 171101M2_65, Date: 02-Nov-2017, Time: 02:44:09, ID: 1701549-12 YS22-GW13-1017 0.11711, Description: YS22-GW13-1017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-12 YS22-GW13-1017 0.11711	4.80e3	57.5	NO
2	2	13C5-PFHxA	1701549-12 YS22-GW13-1017 0.11711	6.71e3	60.8	NO
3	3	13C3-PFHxS	1701549-12 YS22-GW13-1017 0.11711	1.45e3	72.0	NO
4	4	13C8-PFOA	1701549-12 YS22-GW13-1017 0.11711	5.22e3	51.4	NO
5	5	13C9-PFNA	1701549-12 YS22-GW13-1017 0.11711	7.00e3	66.9	NO
6	6	13C4-PFOS	1701549-12 YS22-GW13-1017 0.11711	1.75e3	73.7	NO
7	7	13C6-PFDA	1701549-12 YS22-GW13-1017 0.11711	7.14e3	73.2	NO
8	8	13C7-PFUnA	1701549-12 YS22-GW13-1017 0.11711	8.57e3	84.7	NO

Name: 171101M2_66, Date: 02-Nov-2017, Time: 02:55:20, ID: 1701549-13 YS22-EB02-102517 0.11791, Description: YS22-EB02-102517

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701549-13 YS22-EB02-102517 0.11791	5.58e3	66.8	NO
2	2	13C5-PFHxA	1701549-13 YS22-EB02-102517 0.11791	7.71e3	69.7	NO
3	3	13C3-PFHxS	1701549-13 YS22-EB02-102517 0.11791	1.49e3	73.7	NO
4	4	13C8-PFOA	1701549-13 YS22-EB02-102517 0.11791	6.13e3	60.4	NO
5	5	13C9-PFNA	1701549-13 YS22-EB02-102517 0.11791	6.72e3	64.1	NO
6	6	13C4-PFOS	1701549-13 YS22-EB02-102517 0.11791	1.46e3	61.3	NO
7	7	13C6-PFDA	1701549-13 YS22-EB02-102517 0.11791	8.67e3	89.0	NO
8	8	13C7-PFUnA	1701549-13 YS22-EB02-102517 0.11791	8.99e3	88.8	NO

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Name: 171101M2_67, Date: 02-Nov-2017, Time: 03:06:31, ID: 1701553-01 WT1710250900JNR 0.25976, Description: WT1710250900JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-01 WT1710250900JNR 0.259...	4.03e3	48.3	YES
2	2	13C5-PFHxA	1701553-01 WT1710250900JNR 0.259...	5.82e3	52.7	NO
3	3	13C3-PFHxS	1701553-01 WT1710250900JNR 0.259...	1.29e3	63.7	NO
4	4	13C8-PFOA	1701553-01 WT1710250900JNR 0.259...	4.88e3	48.1	YES
5	5	13C9-PFNA	1701553-01 WT1710250900JNR 0.259...	6.12e3	58.5	NO
6	6	13C4-PFOS	1701553-01 WT1710250900JNR 0.259...	1.32e3	55.6	NO
7	7	13C6-PFDA	1701553-01 WT1710250900JNR 0.259...	5.74e3	58.9	NO
8	8	13C7-PFUnA	1701553-01 WT1710250900JNR 0.259...	6.29e3	62.1	NO

Name: 171101M2_68, Date: 02-Nov-2017, Time: 03:17:41, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-13 PFC CS0 17J2707	8.76e3	104.8	NO
2	2	13C5-PFHxA	ST171101M2-13 PFC CS0 17J2707	1.13e4	102.7	NO
3	3	13C3-PFHxS	ST171101M2-13 PFC CS0 17J2707	2.08e3	103.1	NO
4	4	13C8-PFOA	ST171101M2-13 PFC CS0 17J2707	1.17e4	115.1	NO
5	5	13C9-PFNA	ST171101M2-13 PFC CS0 17J2707	1.01e4	96.8	NO
6	6	13C4-PFOS	ST171101M2-13 PFC CS0 17J2707	2.26e3	94.9	NO
7	7	13C6-PFDA	ST171101M2-13 PFC CS0 17J2707	9.93e3	102.0	NO
8	8	13C7-PFUnA	ST171101M2-13 PFC CS0 17J2707	1.13e4	111.4	NO

Name: 171101M2_70, Date: 02-Nov-2017, Time: 03:40:03, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

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Name: 171101M2_71, Date: 02-Nov-2017, Time: 03:51:13, ID: 1701553-02 WT1710250915JNR 0.2538, Description: WT1710250915JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-02 WT1710250915JNR 0.2538	4.23e3	50.6	NO
2	2	13C5-PFHxA	1701553-02 WT1710250915JNR 0.2538	6.09e3	55.1	NO
3	3	13C3-PFHxS	1701553-02 WT1710250915JNR 0.2538	1.47e3	72.8	NO
4	4	13C8-PFOA	1701553-02 WT1710250915JNR 0.2538	5.59e3	55.1	NO
5	5	13C9-PFNA	1701553-02 WT1710250915JNR 0.2538	5.72e3	54.6	NO
6	6	13C4-PFOS	1701553-02 WT1710250915JNR 0.2538	1.49e3	62.7	NO
7	7	13C6-PFDA	1701553-02 WT1710250915JNR 0.2538	6.30e3	64.7	NO
8	8	13C7-PFUnA	1701553-02 WT1710250915JNR 0.2538	7.73e3	76.3	NO

Name: 171101M2_72, Date: 02-Nov-2017, Time: 04:02:24, ID: 1701553-03 WR1710250940JNR 0.25102, Description: WR1710250940JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-03 WR1710250940JNR 0.251...	5.79e3	69.3	NO
2	2	13C5-PFHxA	1701553-03 WR1710250940JNR 0.251...	7.55e3	68.4	NO
3	3	13C3-PFHxS	1701553-03 WR1710250940JNR 0.251...	1.58e3	78.5	NO
4	4	13C8-PFOA	1701553-03 WR1710250940JNR 0.251...	5.65e3	55.7	NO
5	5	13C9-PFNA	1701553-03 WR1710250940JNR 0.251...	8.29e3	79.1	NO
6	6	13C4-PFOS	1701553-03 WR1710250940JNR 0.251...	1.62e3	67.9	NO
7	7	13C6-PFDA	1701553-03 WR1710250940JNR 0.251...	8.96e3	92.0	NO
8	8	13C7-PFUnA	1701553-03 WR1710250940JNR 0.251...	8.54e3	84.3	NO

Name: 171101M2_73, Date: 02-Nov-2017, Time: 04:13:35, ID: 1701553-04 WT1710250950JNR 0.26075, Description: WT1710250950JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-04 WT1710250950JNR 0.260...	3.00e3	35.9	YES
2	2	13C5-PFHxA	1701553-04 WT1710250950JNR 0.260...	6.28e3	56.8	NO
3	3	13C3-PFHxS	1701553-04 WT1710250950JNR 0.260...	1.30e3	64.3	NO
4	4	13C8-PFOA	1701553-04 WT1710250950JNR 0.260...	5.31e3	52.4	NO
5	5	13C9-PFNA	1701553-04 WT1710250950JNR 0.260...	6.30e3	60.2	NO
6	6	13C4-PFOS	1701553-04 WT1710250950JNR 0.260...	1.36e3	57.0	NO
7	7	13C6-PFDA	1701553-04 WT1710250950JNR 0.260...	7.48e3	76.8	NO
8	8	13C7-PFUnA	1701553-04 WT1710250950JNR 0.260...	7.83e3	77.4	NO

Name: 171101M2_74, Date: 02-Nov-2017, Time: 04:24:45, ID: 1701553-05 WT1710251005JNR 0.2762, Description: WT1710251005JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-05 WT1710251005JNR 0.2762	4.16e3	49.8	YES
2	2	13C5-PFHxA	1701553-05 WT1710251005JNR 0.2762	5.83e3	52.8	NO
3	3	13C3-PFHxS	1701553-05 WT1710251005JNR 0.2762	1.27e3	63.0	NO
4	4	13C8-PFOA	1701553-05 WT1710251005JNR 0.2762	4.39e3	43.3	YES
5	5	13C9-PFNA	1701553-05 WT1710251005JNR 0.2762	5.89e3	56.2	NO
6	6	13C4-PFOS	1701553-05 WT1710251005JNR 0.2762	1.51e3	63.3	NO
7	7	13C6-PFDA	1701553-05 WT1710251005JNR 0.2762	7.23e3	74.2	NO
8	8	13C7-PFUnA	1701553-05 WT1710251005JNR 0.2762	8.74e3	86.4	NO

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Name: 171101M2_75, Date: 02-Nov-2017, Time: 04:36:13, ID: 1701553-06 WT1710251015JNR 0.25858, Description: WT1710251015JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-06 WT1710251015JNR 0.258...	4.47e3	53.5	NO
2	2	13C5-PFHxA	1701553-06 WT1710251015JNR 0.258...	6.54e3	59.2	NO
3	3	13C3-PFHxS	1701553-06 WT1710251015JNR 0.258...	1.51e3	74.6	NO
4	4	13C8-PFOA	1701553-06 WT1710251015JNR 0.258...	5.09e3	50.2	NO
5	5	13C9-PFNA	1701553-06 WT1710251015JNR 0.258...	6.43e3	61.3	NO
6	6	13C4-PFOS	1701553-06 WT1710251015JNR 0.258...	1.41e3	59.4	NO
7	7	13C6-PFDA	1701553-06 WT1710251015JNR 0.258...	6.11e3	62.8	NO
8	8	13C7-PFUnA	1701553-06 WT1710251015JNR 0.258...	7.35e3	72.6	NO

Name: 171101M2_76, Date: 02-Nov-2017, Time: 04:47:54, ID: 1701553-07 WT1710251105JNR 0.24899, Description: WT1710251105JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-07 WT1710251105JNR 0.24899	4.33e3	51.9	NO
2	2	13C5-PFHxA	1701553-07 WT1710251105JNR 0.24899	6.27e3	56.7	NO
3	3	13C3-PFHxS	1701553-07 WT1710251105JNR 0.24899	1.40e3	69.3	NO
4	4	13C8-PFOA	1701553-07 WT1710251105JNR 0.24899	5.24e3	51.7	NO
5	5	13C9-PFNA	1701553-07 WT1710251105JNR 0.24899	6.06e3	57.9	NO
6	6	13C4-PFOS	1701553-07 WT1710251105JNR 0.24899	1.52e3	63.8	NO
7	7	13C6-PFDA	1701553-07 WT1710251105JNR 0.24899	7.17e3	73.6	NO
8	8	13C7-PFUnA	1701553-07 WT1710251105JNR 0.24899	7.78e3	76.9	NO

Name: 171101M2_77, Date: 02-Nov-2017, Time: 04:59:04, ID: 1701553-08 WEFF1710251125JNR 0.2496, Description: WEFF1710251125JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-08 WEFF1710251125JNR 0.2...	4.77e3	57.1	NO
2	2	13C5-PFHxA	1701553-08 WEFF1710251125JNR 0.2...	6.66e3	60.2	NO
3	3	13C3-PFHxS	1701553-08 WEFF1710251125JNR 0.2...	1.44e3	71.2	NO
4	4	13C8-PFOA	1701553-08 WEFF1710251125JNR 0.2...	5.32e3	52.4	NO
5	5	13C9-PFNA	1701553-08 WEFF1710251125JNR 0.2...	6.64e3	63.4	NO
6	6	13C4-PFOS	1701553-08 WEFF1710251125JNR 0.2...	1.34e3	56.5	NO
7	7	13C6-PFDA	1701553-08 WEFF1710251125JNR 0.2...	5.59e3	57.4	NO
8	8	13C7-PFUnA	1701553-08 WEFF1710251125JNR 0.2...	7.57e3	74.8	NO

Name: 171101M2_78, Date: 02-Nov-2017, Time: 05:10:18, ID: 1701553-09 WT1710251145JNR 0.25619, Description: WT1710251145JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-09 WT1710251145JNR 0.25619	4.69e3	56.1	NO
2	2	13C5-PFHxA	1701553-09 WT1710251145JNR 0.25619	6.11e3	55.3	NO
3	3	13C3-PFHxS	1701553-09 WT1710251145JNR 0.25619	1.31e3	65.0	NO
4	4	13C8-PFOA	1701553-09 WT1710251145JNR 0.25619	5.18e3	51.0	NO
5	5	13C9-PFNA	1701553-09 WT1710251145JNR 0.25619	5.81e3	55.5	NO
6	6	13C4-PFOS	1701553-09 WT1710251145JNR 0.25619	1.49e3	62.8	NO
7	7	13C6-PFDA	1701553-09 WT1710251145JNR 0.25619	5.74e3	58.9	NO
8	8	13C7-PFUnA	1701553-09 WT1710251145JNR 0.25619	6.65e3	65.7	NO

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Name: 171101M2_79, Date: 02-Nov-2017, Time: 05:21:34, ID: 1701553-10 WT1710251305JNR 0.27546, Description: WT1710251305JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-10 WT1710251305JNR 0.275...	4.12e3	49.4	YES
2	2	13C5-PFHxA	1701553-10 WT1710251305JNR 0.275...	6.28e3	56.8	NO
3	3	13C3-PFHxS	1701553-10 WT1710251305JNR 0.275...	1.37e3	67.9	NO
4	4	13C8-PFOA	1701553-10 WT1710251305JNR 0.275...	5.90e3	58.2	NO
5	5	13C9-PFNA	1701553-10 WT1710251305JNR 0.275...	6.15e3	58.7	NO
6	6	13C4-PFOS	1701553-10 WT1710251305JNR 0.275...	1.73e3	72.5	NO
7	7	13C6-PFDA	1701553-10 WT1710251305JNR 0.275...	6.12e3	62.8	NO
8	8	13C7-PFUnA	1701553-10 WT1710251305JNR 0.275...	6.23e3	61.6	NO

Name: 171101M2_80, Date: 02-Nov-2017, Time: 05:32:46, ID: 1701553-11 WT1710251315JNR 0.24566, Description: WT1710251315JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-11 WT1710251315JNR 0.24566	4.78e3	57.2	NO
2	2	13C5-PFHxA	1701553-11 WT1710251315JNR 0.24566	5.94e3	53.8	NO
3	3	13C3-PFHxS	1701553-11 WT1710251315JNR 0.24566	1.34e3	66.5	NO
4	4	13C8-PFOA	1701553-11 WT1710251315JNR 0.24566	5.15e3	50.8	NO
5	5	13C9-PFNA	1701553-11 WT1710251315JNR 0.24566	6.15e3	58.7	NO
6	6	13C4-PFOS	1701553-11 WT1710251315JNR 0.24566	1.59e3	66.7	NO
7	7	13C6-PFDA	1701553-11 WT1710251315JNR 0.24566	7.01e3	72.0	NO
8	8	13C7-PFUnA	1701553-11 WT1710251315JNR 0.24566	8.11e3	80.1	NO

Name: 171101M2_81, Date: 02-Nov-2017, Time: 05:43:56, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_82, Date: 02-Nov-2017, Time: 05:55:07, ID: ST171101M2-14 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-14 PFC CS3 17J2709	8.93e3	106.8	NO
2	2	13C5-PFHxA	ST171101M2-14 PFC CS3 17J2709	1.15e4	103.7	NO
3	3	13C3-PFHxS	ST171101M2-14 PFC CS3 17J2709	1.93e3	95.5	NO
4	4	13C8-PFOA	ST171101M2-14 PFC CS3 17J2709	1.03e4	101.8	NO
5	5	13C9-PFNA	ST171101M2-14 PFC CS3 17J2709	9.00e3	85.9	NO
6	6	13C4-PFOS	ST171101M2-14 PFC CS3 17J2709	2.44e3	102.5	NO
7	7	13C6-PFDA	ST171101M2-14 PFC CS3 17J2709	1.39e4	142.4	NO
8	8	13C7-PFUnA	ST171101M2-14 PFC CS3 17J2709	1.02e4	101.0	NO

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Name: 171101M2_83, Date: 02-Nov-2017, Time: 06:06:17, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_84, Date: 02-Nov-2017, Time: 06:17:28, ID: 1701553-12 WT1710251330JNR 0.2664, Description: WT1710251330JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-12 WT1710251330JNR 0.2664	4.88e3	58.4	NO
2	2	13C5-PFHxA	1701553-12 WT1710251330JNR 0.2664	6.37e3	57.7	NO
3	3	13C3-PFHxS	1701553-12 WT1710251330JNR 0.2664	1.42e3	70.4	NO
4	4	13C8-PFOA	1701553-12 WT1710251330JNR 0.2664	5.71e3	56.4	NO
5	5	13C9-PFNA	1701553-12 WT1710251330JNR 0.2664	6.38e3	60.9	NO
6	6	13C4-PFOS	1701553-12 WT1710251330JNR 0.2664	1.81e3	76.0	NO
7	7	13C6-PFDA	1701553-12 WT1710251330JNR 0.2664	6.21e3	63.7	NO
8	8	13C7-PFUnA	1701553-12 WT1710251330JNR 0.2664	6.43e3	63.5	NO

Name: 171101M2_85, Date: 02-Nov-2017, Time: 06:28:44, ID: 1701553-13 FB1710251335JNR 0.259, Description: FB1710251335JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-13 FB1710251335JNR 0.259	4.80e3	57.4	NO
2	2	13C5-PFHxA	1701553-13 FB1710251335JNR 0.259	6.63e3	60.0	NO
3	3	13C3-PFHxS	1701553-13 FB1710251335JNR 0.259	1.43e3	70.8	NO
4	4	13C8-PFOA	1701553-13 FB1710251335JNR 0.259	5.39e3	53.2	NO
5	5	13C9-PFNA	1701553-13 FB1710251335JNR 0.259	7.08e3	67.6	NO
6	6	13C4-PFOS	1701553-13 FB1710251335JNR 0.259	1.49e3	62.5	NO
7	7	13C6-PFDA	1701553-13 FB1710251335JNR 0.259	7.96e3	81.7	NO
8	8	13C7-PFUnA	1701553-13 FB1710251335JNR 0.259	7.21e3	71.2	NO

Name: 171101M2_86, Date: 02-Nov-2017, Time: 06:39:55, ID: 1701553-14 WR1710251350JNR 0.27629, Description: WR1710251350JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-14 WR1710251350JNR 0.276...	5.21e3	62.3	NO
2	2	13C5-PFHxA	1701553-14 WR1710251350JNR 0.276...	6.69e3	60.5	NO
3	3	13C3-PFHxS	1701553-14 WR1710251350JNR 0.276...	1.37e3	67.8	NO
4	4	13C8-PFOA	1701553-14 WR1710251350JNR 0.276...	5.16e3	50.9	NO
5	5	13C9-PFNA	1701553-14 WR1710251350JNR 0.276...	5.89e3	56.2	NO
6	6	13C4-PFOS	1701553-14 WR1710251350JNR 0.276...	1.65e3	69.5	NO
7	7	13C6-PFDA	1701553-14 WR1710251350JNR 0.276...	6.47e3	66.4	NO
8	8	13C7-PFUnA	1701553-14 WR1710251350JNR 0.276...	7.30e3	72.1	NO

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Name: 171101M2_87, Date: 02-Nov-2017, Time: 06:51:06, ID: 1701553-15 WT1710251500JNR 0.25082, Description: WT1710251500JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-15 WT1710251500JNR 0.250...	4.70e3	56.2	NO
2	2	13C5-PFHxA	1701553-15 WT1710251500JNR 0.250...	5.99e3	54.2	NO
3	3	13C3-PFHxS	1701553-15 WT1710251500JNR 0.250...	1.29e3	64.1	NO
4	4	13C8-PFOA	1701553-15 WT1710251500JNR 0.250...	4.88e3	48.1	YES
5	5	13C9-PFNA	1701553-15 WT1710251500JNR 0.250...	5.67e3	54.2	NO
6	6	13C4-PFOS	1701553-15 WT1710251500JNR 0.250...	1.51e3	63.5	NO
7	7	13C6-PFDA	1701553-15 WT1710251500JNR 0.250...	5.64e3	57.9	NO
8	8	13C7-PFUnA	1701553-15 WT1710251500JNR 0.250...	6.86e3	67.8	NO

Name: 171101M2_88, Date: 02-Nov-2017, Time: 07:02:17, ID: 1701553-16 WT1710251515JNR 0.26699, Description: WT1710251515JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-16 WT1710251515JNR 0.266...	4.14e3	49.5	YES
2	2	13C5-PFHxA	1701553-16 WT1710251515JNR 0.266...	5.72e3	51.7	NO
3	3	13C3-PFHxS	1701553-16 WT1710251515JNR 0.266...	1.32e3	65.5	NO
4	4	13C8-PFOA	1701553-16 WT1710251515JNR 0.266...	4.49e3	44.2	YES
5	5	13C9-PFNA	1701553-16 WT1710251515JNR 0.266...	5.41e3	51.6	NO
6	6	13C4-PFOS	1701553-16 WT1710251515JNR 0.266...	1.46e3	61.5	NO
7	7	13C6-PFDA	1701553-16 WT1710251515JNR 0.266...	5.45e3	55.9	NO
8	8	13C7-PFUnA	1701553-16 WT1710251515JNR 0.266...	6.91e3	68.2	NO

Name: 171101M2_89, Date: 02-Nov-2017, Time: 07:13:27, ID: 1701553-17 WT1710251530JNR 0.26391, Description: WT1710251530JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-17 WT1710251530JNR 0.263...	4.44e3	53.2	NO
2	2	13C5-PFHxA	1701553-17 WT1710251530JNR 0.263...	5.82e3	52.7	NO
3	3	13C3-PFHxS	1701553-17 WT1710251530JNR 0.263...	1.42e3	70.2	NO
4	4	13C8-PFOA	1701553-17 WT1710251530JNR 0.263...	5.12e3	50.5	NO
5	5	13C9-PFNA	1701553-17 WT1710251530JNR 0.263...	6.27e3	59.8	NO
6	6	13C4-PFOS	1701553-17 WT1710251530JNR 0.263...	1.35e3	56.5	NO
7	7	13C6-PFDA	1701553-17 WT1710251530JNR 0.263...	5.95e3	61.0	NO
8	8	13C7-PFUnA	1701553-17 WT1710251530JNR 0.263...	6.51e3	64.3	NO

Name: 171101M2_90, Date: 02-Nov-2017, Time: 07:24:42, ID: 1701553-18 WT1710251545JNR 0.24909, Description: WT1710251545JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-18 WT1710251545JNR 0.249...	4.29e3	51.3	NO
2	2	13C5-PFHxA	1701553-18 WT1710251545JNR 0.249...	5.47e3	49.5	YES
3	3	13C3-PFHxS	1701553-18 WT1710251545JNR 0.249...	1.27e3	62.9	NO
4	4	13C8-PFOA	1701553-18 WT1710251545JNR 0.249...	4.77e3	47.0	YES
5	5	13C9-PFNA	1701553-18 WT1710251545JNR 0.249...	6.14e3	58.6	NO
6	6	13C4-PFOS	1701553-18 WT1710251545JNR 0.249...	1.44e3	60.4	NO
7	7	13C6-PFDA	1701553-18 WT1710251545JNR 0.249...	6.16e3	63.2	NO
8	8	13C7-PFUnA	1701553-18 WT1710251545JNR 0.249...	7.20e3	71.1	NO

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Name: 171101M2_91, Date: 02-Nov-2017, Time: 07:35:51, ID: 1701553-19 WT1710251600JNR 0.25246, Description: WT1710251600JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-19 WT1710251600JNR 0.252...	5.11e3	61.2	NO
2	2	13C5-PFHxA	1701553-19 WT1710251600JNR 0.252...	6.56e3	59.4	NO
3	3	13C3-PFHxS	1701553-19 WT1710251600JNR 0.252...	1.51e3	74.7	NO
4	4	13C8-PFOA	1701553-19 WT1710251600JNR 0.252...	5.28e3	52.0	NO
5	5	13C9-PFNA	1701553-19 WT1710251600JNR 0.252...	5.50e3	52.5	NO
6	6	13C4-PFOS	1701553-19 WT1710251600JNR 0.252...	1.73e3	72.6	NO
7	7	13C6-PFDA	1701553-19 WT1710251600JNR 0.252...	5.70e3	58.5	NO
8	8	13C7-PFUnA	1701553-19 WT1710251600JNR 0.252...	7.70e3	76.0	NO

Name: 171101M2_92, Date: 02-Nov-2017, Time: 07:47:02, ID: 1701553-20 WT1710251610JNR 0.2312, Description: WT1710251610JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701553-20 WT1710251610JNR 0.2312	4.36e3	52.2	NO
2	2	13C5-PFHxA	1701553-20 WT1710251610JNR 0.2312	5.79e3	52.4	NO
3	3	13C3-PFHxS	1701553-20 WT1710251610JNR 0.2312	1.22e3	60.6	NO
4	4	13C8-PFOA	1701553-20 WT1710251610JNR 0.2312	5.11e3	50.4	NO
5	5	13C9-PFNA	1701553-20 WT1710251610JNR 0.2312	6.50e3	62.0	NO
6	6	13C4-PFOS	1701553-20 WT1710251610JNR 0.2312	1.42e3	59.5	NO
7	7	13C6-PFDA	1701553-20 WT1710251610JNR 0.2312	5.92e3	60.7	NO
8	8	13C7-PFUnA	1701553-20 WT1710251610JNR 0.2312	6.44e3	63.6	NO

Name: 171101M2_93, Date: 02-Nov-2017, Time: 07:58:13, ID: 1701463-01RE2 Foam LK. Margrethe 0.04247, Description: Foam LK. Margrethe

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701463-01RE2 Foam LK. Margrethe 0....	1.17e4	70.3	NO
2	2	13C5-PFHxA	1701463-01RE2 Foam LK. Margrethe 0....	1.55e4	70.0	NO
3	3	13C3-PFHxS	1701463-01RE2 Foam LK. Margrethe 0....	2.91e3	72.1	NO
4	4	13C8-PFOA	1701463-01RE2 Foam LK. Margrethe 0....	1.22e4	60.1	NO
5	5	13C9-PFNA	1701463-01RE2 Foam LK. Margrethe 0....	1.47e4	70.2	NO
6	6	13C4-PFOS	1701463-01RE2 Foam LK. Margrethe 0....	2.93e3	61.5	NO
7	7	13C6-PFDA	1701463-01RE2 Foam LK. Margrethe 0....	1.41e4	72.4	NO
8	8	13C7-PFUnA	1701463-01RE2 Foam LK. Margrethe 0....	1.62e4	80.1	NO

Name: 171101M2_94, Date: 02-Nov-2017, Time: 08:09:23, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Dataset: U:\Q4.PRO\results\171101M2\IIS.qld

Last Altered: Thursday, November 02, 2017 16:47:05 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:49:45 Pacific Daylight Time

Name: 171101M2_95, Date: 02-Nov-2017, Time: 08:20:34, ID: 1701484-01RE2 YMCA Beach Foam 0.00102, Description: YMCA Beach Foam

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701484-01RE2 YMCA Beach Foam 0.0...	5.75e3	34.4	YES
2	2	13C5-PFHxA	1701484-01RE2 YMCA Beach Foam 0.0...	7.58e3	34.3	YES
3	3	13C3-PFHxS	1701484-01RE2 YMCA Beach Foam 0.0...	1.54e3	38.2	YES
4	4	13C8-PFOA	1701484-01RE2 YMCA Beach Foam 0.0...	6.14e3	30.3	YES
5	5	13C9-PFNA	1701484-01RE2 YMCA Beach Foam 0.0...	6.37e3	30.4	YES
6	6	13C4-PFOS	1701484-01RE2 YMCA Beach Foam 0.0...	1.24e3	26.1	YES
7	7	13C6-PFDA	1701484-01RE2 YMCA Beach Foam 0.0...	6.30e3	32.3	YES
8	8	13C7-PFUnA	1701484-01RE2 YMCA Beach Foam 0.0...	6.46e3	31.9	YES

Name: 171101M2_96, Date: 02-Nov-2017, Time: 08:31:45, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

Name: 171101M2_97, Date: 02-Nov-2017, Time: 08:42:55, ID: ST171101M2-15 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171101M2-15 PFC CS3 17J2709	8.90e3	106.5	NO
2	2	13C5-PFHxA	ST171101M2-15 PFC CS3 17J2709	1.12e4	101.5	NO
3	3	13C3-PFHxS	ST171101M2-15 PFC CS3 17J2709	2.13e3	105.4	NO
4	4	13C8-PFOA	ST171101M2-15 PFC CS3 17J2709	1.05e4	103.9	NO
5	5	13C9-PFNA	ST171101M2-15 PFC CS3 17J2709	1.02e4	97.2	NO
6	6	13C4-PFOS	ST171101M2-15 PFC CS3 17J2709	2.28e3	95.7	NO
7	7	13C6-PFDA	ST171101M2-15 PFC CS3 17J2709	1.29e4	132.8	NO
8	8	13C7-PFUnA	ST171101M2-15 PFC CS3 17J2709	1.26e4	124.6	NO

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, November 02, 2017 09:06:21 Pacific Daylight Time
Printed: Thursday, November 02, 2017 09:06:58 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_10-31-17-FULL_OLD.cdb 01 Nov 2017 09:42:13

Name: 171101M1_3, Date: 01-Nov-2017, Time: 12:41:15, ID: IPA, Description: IPA

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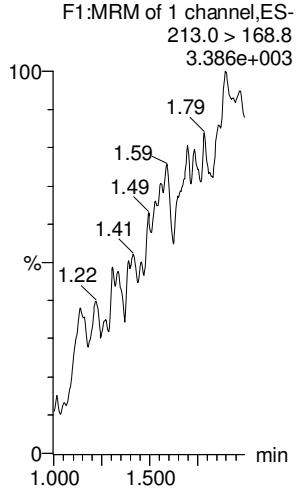

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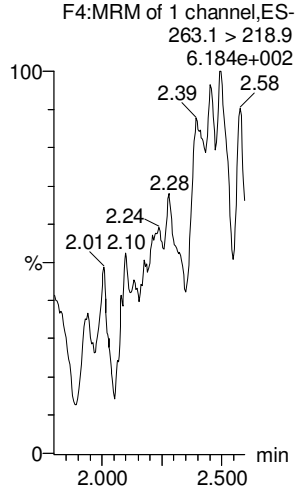

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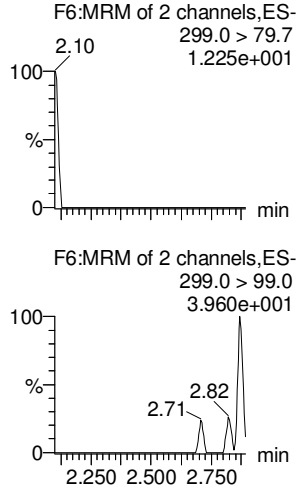

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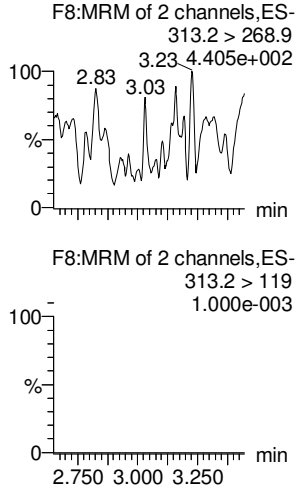

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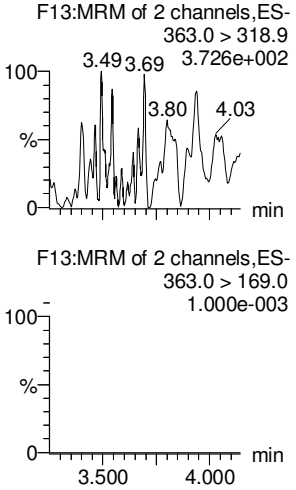

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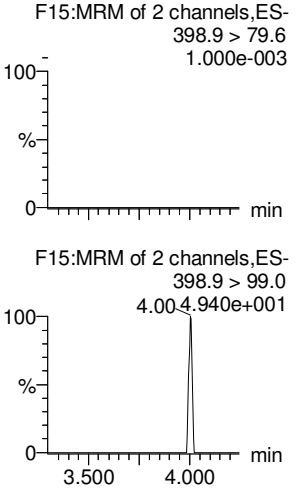

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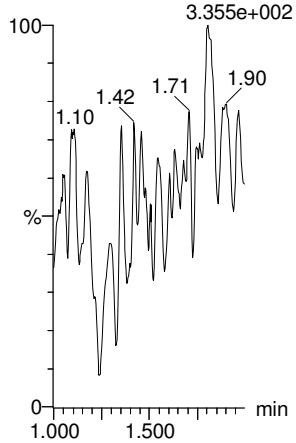

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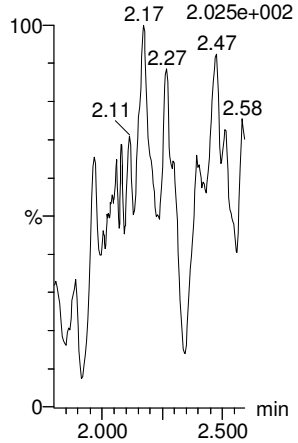

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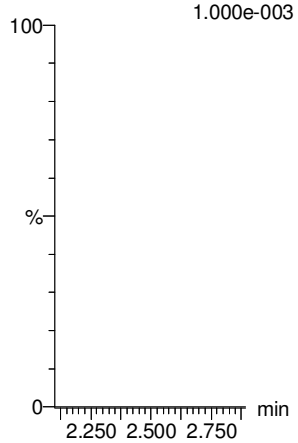

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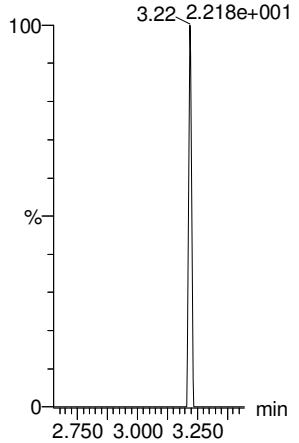

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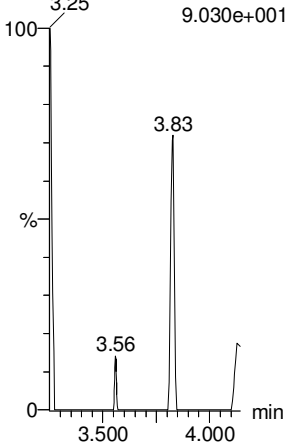

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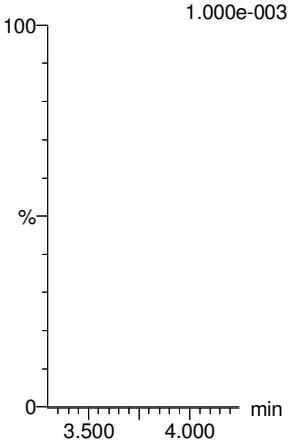

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Name: 171101M1_3, Date: 01-Nov-2017, Time: 12:41:15, ID: IPA, Description: IPA

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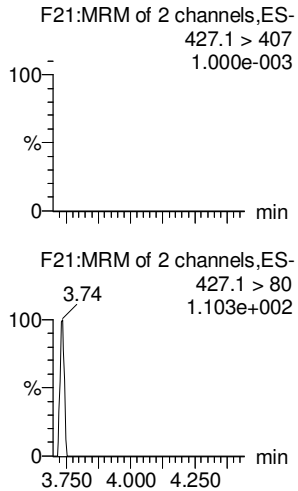
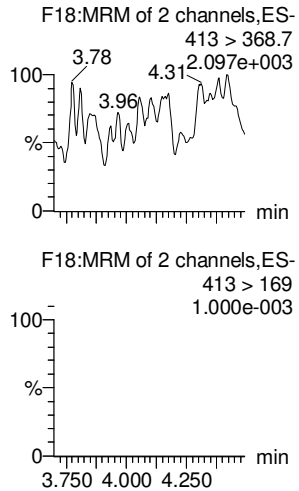


L-PFOA



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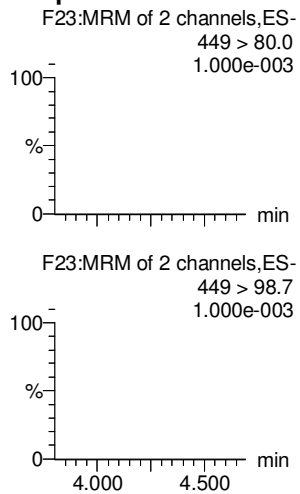

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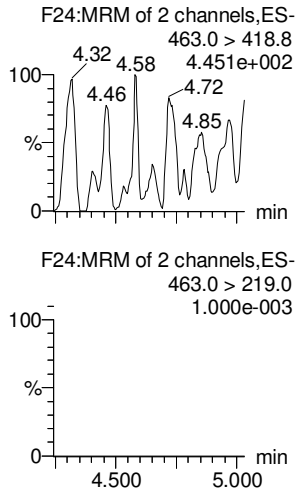

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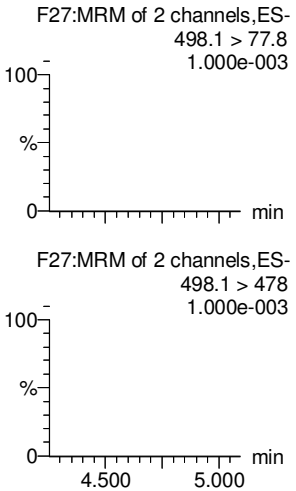

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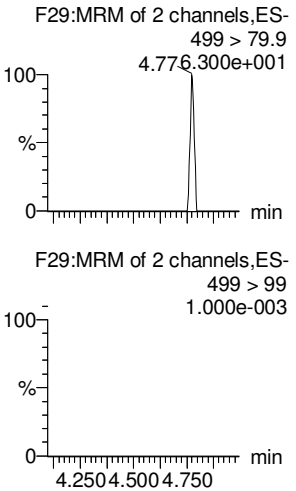

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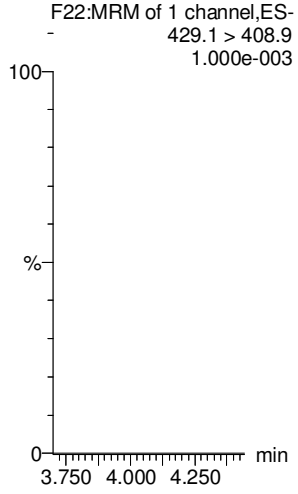

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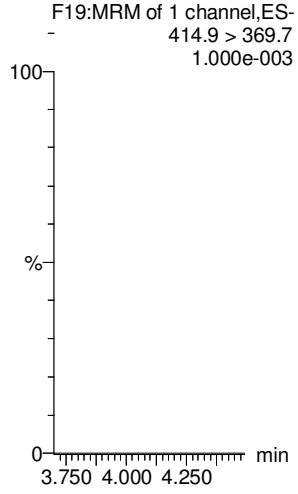

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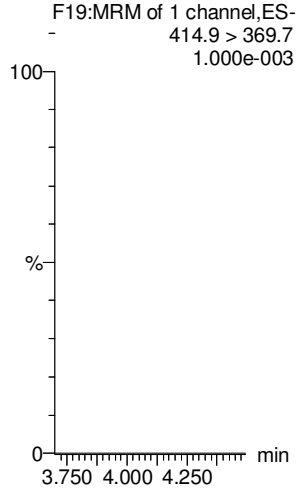

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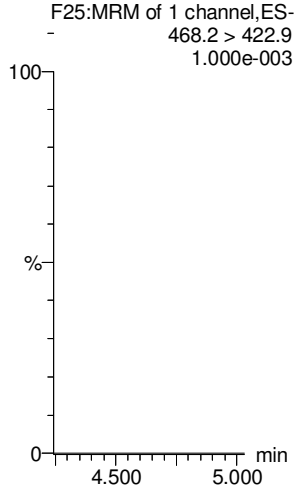

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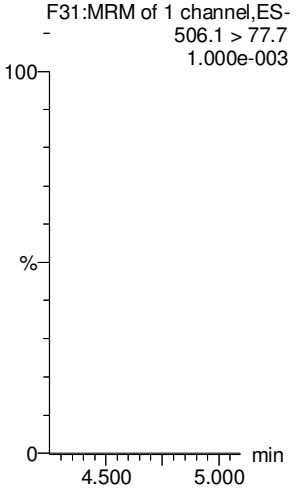

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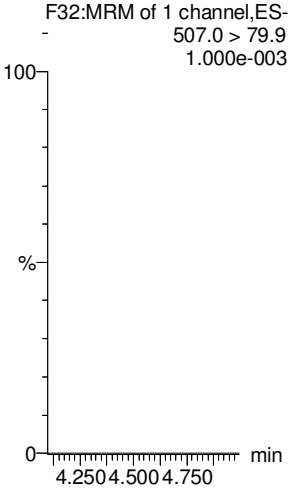

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Last Altered: Thursday, November 02, 2017 09:06:21 Pacific Daylight Time
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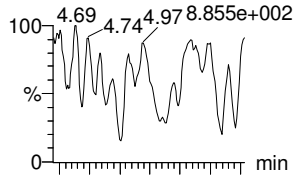
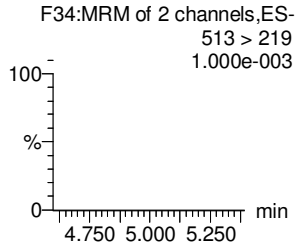
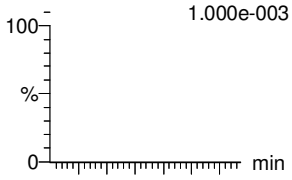
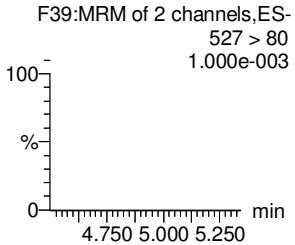




8:2 FTS





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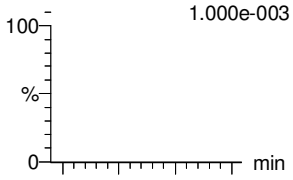

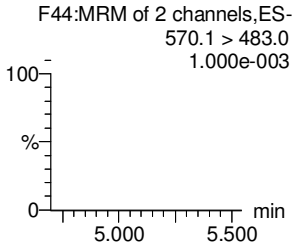

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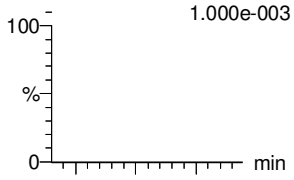

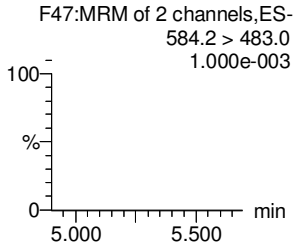

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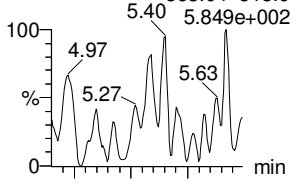

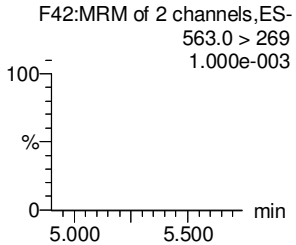

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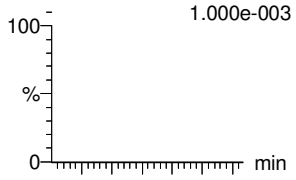

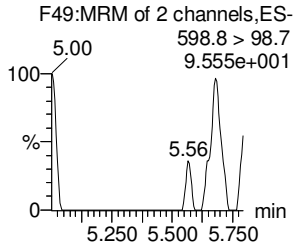

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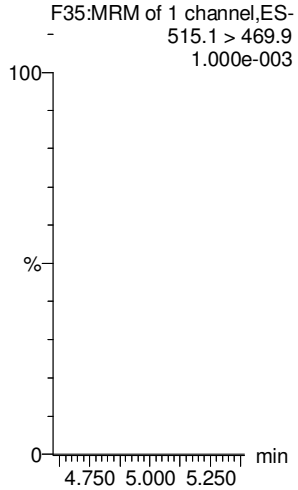

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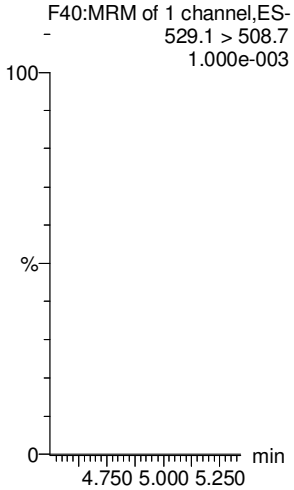

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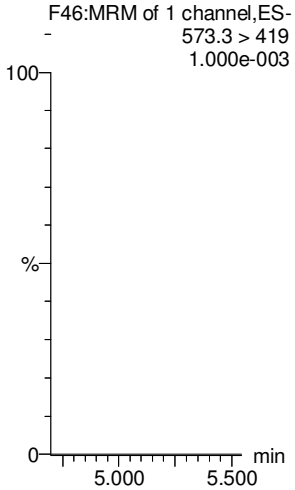

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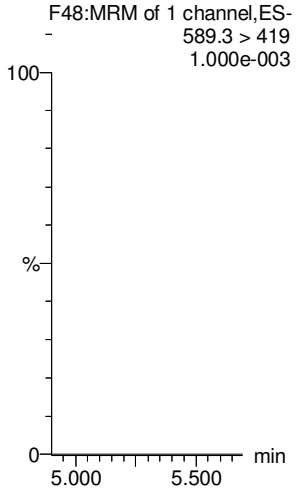

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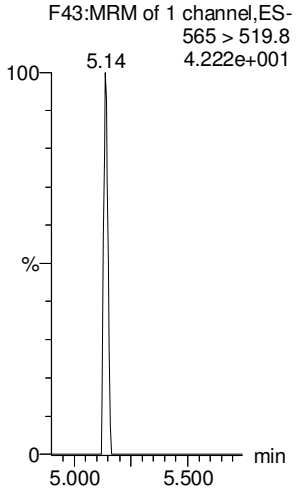

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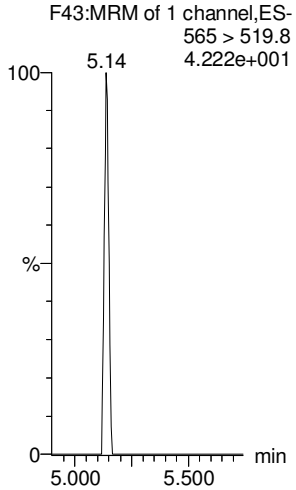

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Last Altered: Thursday, November 02, 2017 09:06:21 Pacific Daylight Time
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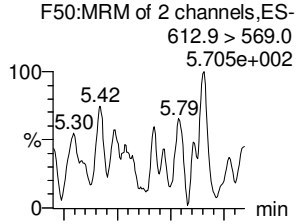
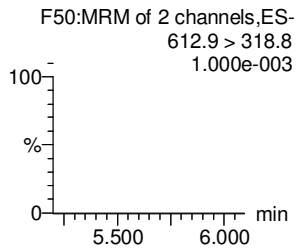
Name: 171101M1_3, Date: 01-Nov-2017, Time: 12:41:15, ID: IPA, Description: IPA

PFDoA





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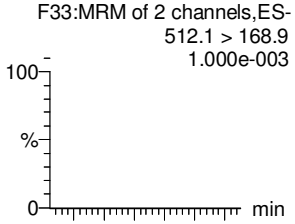

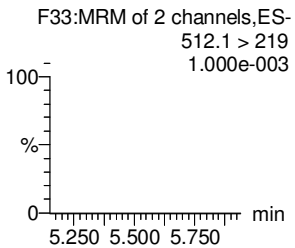

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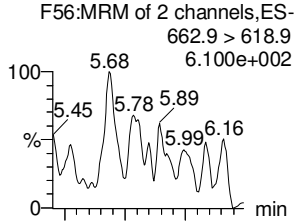

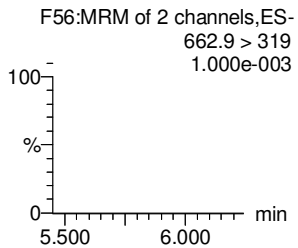

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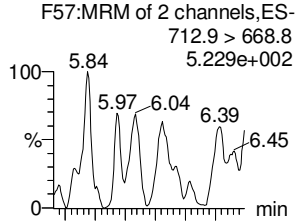

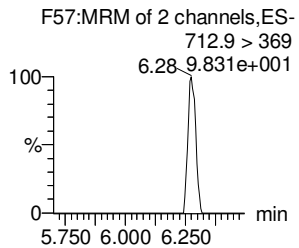

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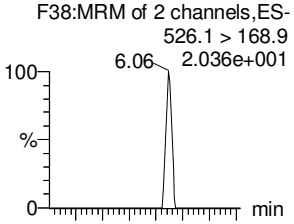

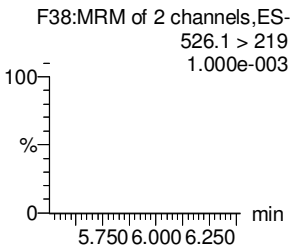

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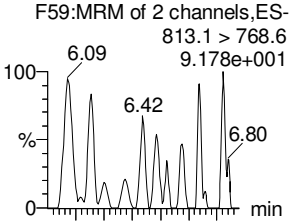

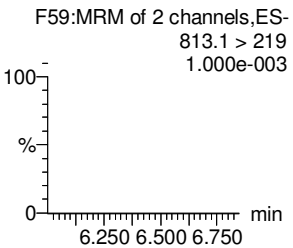

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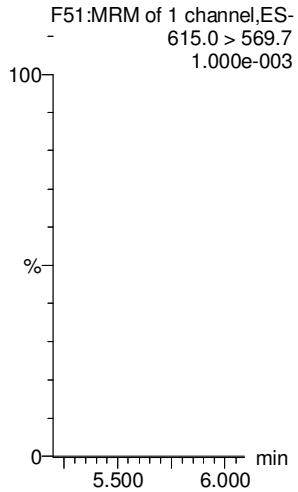
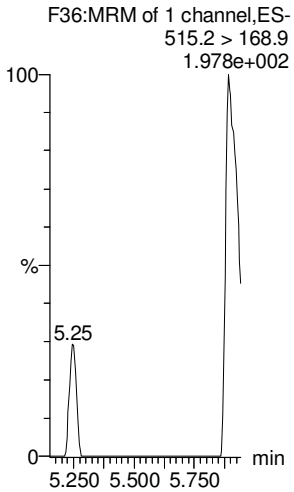


d3-N-MeFOSA



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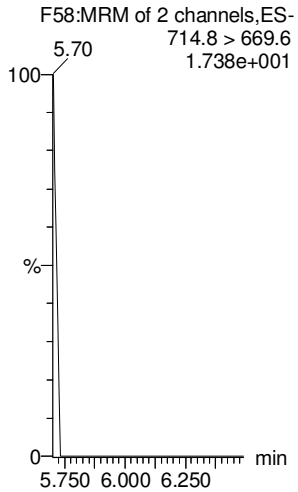

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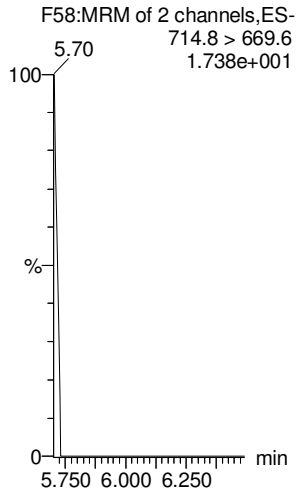
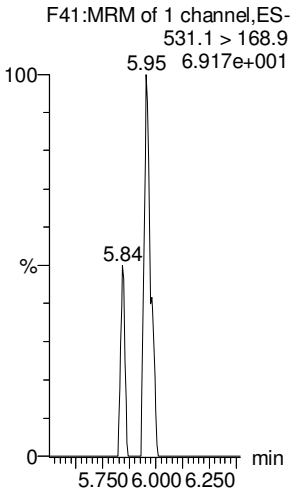


d5-N-ETFOSA



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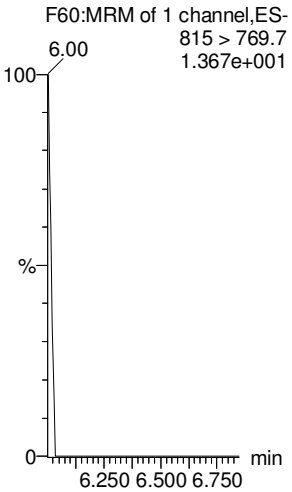

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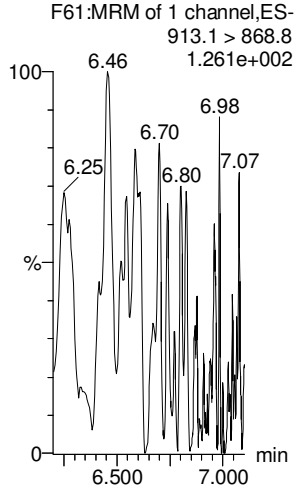
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, November 02, 2017 09:06:21 Pacific Daylight Time
Printed: Thursday, November 02, 2017 09:06:58 Pacific Daylight Time

Name: 171101M1_3, Date: 01-Nov-2017, Time: 12:41:15, ID: IPA, Description: IPA

PFODA



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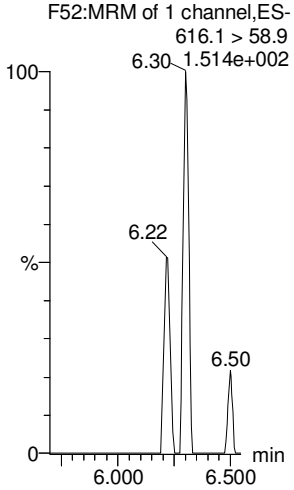

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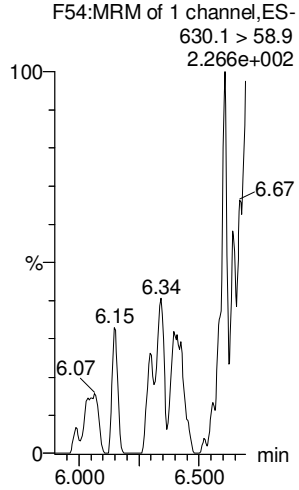

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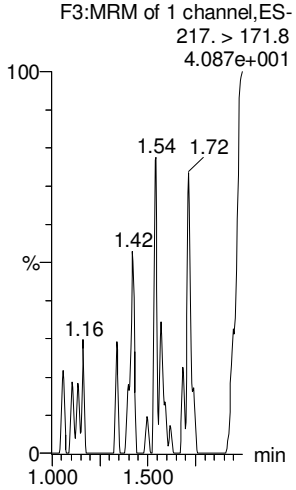

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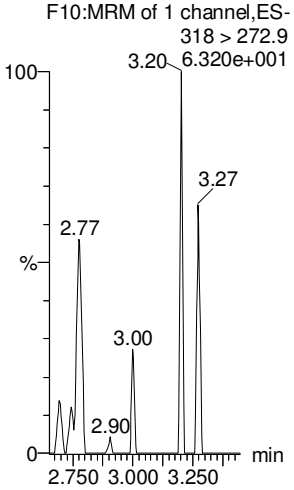

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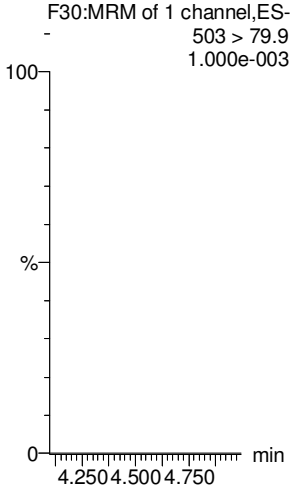

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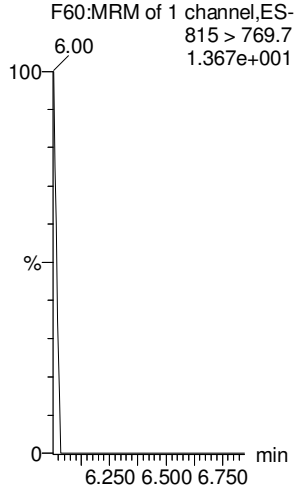
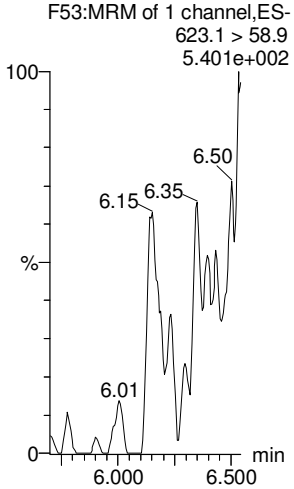


d7-N-MeFOSE



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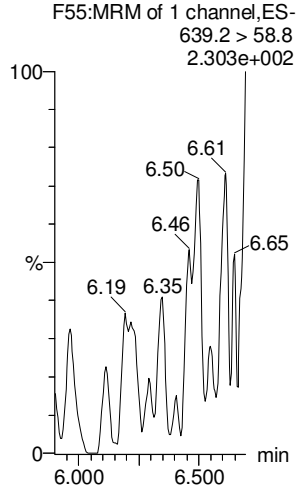

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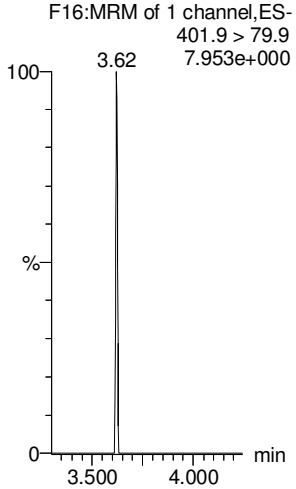

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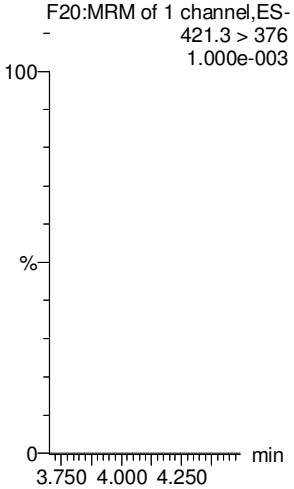

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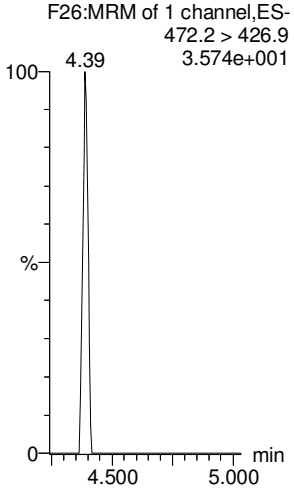

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Dataset: Untitled

Last Altered: Thursday, November 02, 2017 09:06:21 Pacific Daylight Time
Printed: Thursday, November 02, 2017 09:06:58 Pacific Daylight Time

Name: 171101M1_3, Date: 01-Nov-2017, Time: 12:41:15, ID: IPA, Description: IPA

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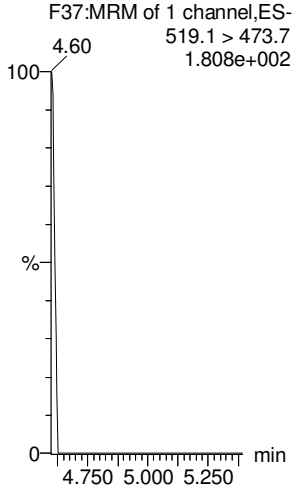
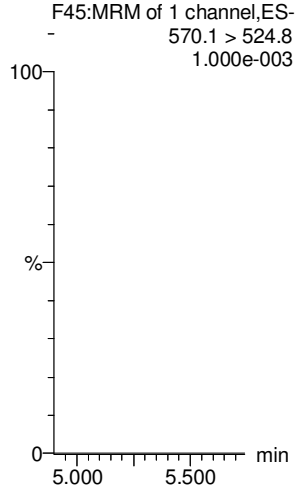


13C7-PFUdA



GM 11/2/17

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

Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	7.31e3	7.40e3		1.17	1.09	12.3	10.0	100.1
2	2	PFPeA	263.1 > 218.9	7.26e3	8.06e3		2.15	2.05	11.3	9.92	99.2
3	3	PFBS	299.0 > 79.7	1.60e3	9.17e2		2.44	2.34	21.8	8.96	89.6
4	4	PFHxA	313.2 > 268.9	1.02e4	3.11e3		2.93	2.84	16.4	9.96	99.6
5	5	PFHpA	363.0 > 318.9	8.55e3	7.20e3		3.56	3.46	14.8	9.85	98.5
6	6	L-PFHxS	398.9 > 79.6	1.49e3	7.69e2		3.71	3.61	24.3	10.5	105.0
7	8	6:2 FTS	427.1 > 407	2.37e3	2.21e3		4.03	3.93	13.4	12.8	128.3
8	9	L-PFOA	413 > 368.7	9.19e3	9.86e3		4.05	3.99	11.6	11.6	115.6
9	11	PFHpS	449 > 80.0	1.72e3	9.86e3		4.20	4.11	2.18	10.1	101.0
10	12	PFNA	463.0 > 418.8	9.34e3	9.09e3		4.55	4.44	12.9	8.81	88.1
11	13	PFOSA	498.1 > 77.8	2.06e3	2.29e3		4.59	4.50	11.3	9.83	98.3
12	14	L-PFOS	499 > 79.9	1.93e3	2.21e3		4.63	4.53	10.9	10.4	104.4
13	16	PFDA	513 > 468.8	1.03e4	9.33e3		4.92	4.82	13.8	9.23	92.3
14	17	8:2 FTS	527 > 506.9	3.01e3	1.88e3		4.89	4.79	20.0	11.4	113.7
15	18	N-MeFOSAA	570.1 > 419	5.24e3	4.41e3		5.08	4.98	14.8	9.63	96.3
16	19	N-EtFOSAA	584.2 > 419	4.13e3	4.65e3		5.24	5.14	11.1	8.56	85.6
17	20	PFUdA	563.0 > 518.9	1.03e4	9.33e3		5.25	5.16	13.8	11.6	116.0
18	21	PFDS	598.8 > 80	1.98e3	9.33e3		5.31	5.21	2.66	10.4	103.8
19	22	PFDoA	612.9 > 569.0	1.44e4	1.15e4		5.55	5.45	15.6	11.8	118.4
20	23	N-MeFOSA	512.1 > 168.9	4.55e3	1.07e4		5.56	5.52	63.5	56.7	113.3
21	24	PFTrDA	662.9 > 618.9	1.37e4	1.15e4		5.80	5.71	14.8	11.8	117.9
22	25	PFTeDA	712.9 > 668.8	1.16e4	1.01e4		6.02	5.93	14.4	11.3	113.0
23	26	N-EtFOSA	526.1 > 168.9	6.02e3	1.70e4		6.01	5.97	53.1	49.9	99.8
24	27	PFHxDA	813.1 > 768.6	6.92e3	4.69e3		6.32	6.29	7.39	10.7	106.9
25	28	PFODA	913.1 > 868.8	4.68e3	4.69e3		6.61	6.54	4.99	10.8	107.7
26	29	N-MeFOSE	616.1 > 58.9	5.27e3	1.47e4		6.23	6.20	53.6	48.8	97.6
27	30	N-EtFOSE	630.1 > 58.9	6.34e3	1.54e4		6.39	6.35	61.6	48.5	97.0
28	31	13C3-PFBA	216.1 > 171.8	7.40e3	8.56e3	0.884	1.17	1.09	10.8	12.2	97.9
29	32	13C3-PFPeA	266. > 221.8	8.06e3	1.08e4	0.727	2.15	2.05	9.33	12.8	102.6
30	33	13C3-PFBS	302. > 98.8	9.17e2	1.08e4	0.083	2.44	2.34	1.06	12.8	102.5
31	34	13C2-PFHxA	315 > 269.8	3.11e3	1.08e4	0.703	2.93	2.83	3.59	5.11	102.3

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50-150

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VJA. 11/02/2017

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

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32	35	13C4-PFHpA	367.2 > 321.8	7.20e3	1.08e4	0.656	3.56	3.46	8.32	12.7	101.4
33	36	18O2-PFHxS	403.0 > 102.6	7.69e2	2.11e3	0.408	3.71	3.61	4.56	11.2	89.4
34	37	13C2-6:2 FTS	429.1 > 408.9	2.21e3	9.25e3	0.243	4.03	3.93	2.99	12.3	98.3
35	38	13C2-PFOA	414.9 > 369.7	9.86e3	9.25e3	1.076	4.05	3.99	13.3	12.4	99.1
36	39	13C5-PFNA	468.2 > 422.9	9.09e3	1.03e4	0.914	4.55	4.44	11.1	12.1	97.0
37	40	13C8-PFOSA	506.1 > 77.7	2.29e3	1.01e4	0.211	4.59	4.49	2.83	13.4	107.1
38	41	13C8-PFOS	507.0 > 79.9	2.21e3	1.93e3	0.982	4.63	4.53	14.3	14.6	116.4
39	42	13C2-PFDA	515.1 > 469.9	9.33e3	9.39e3	0.891	4.92	4.82	12.4	13.9	111.4
40	43	13C2-8:2 FTS	529.1 > 508.7	1.88e3	9.39e3	0.198	4.89	4.79	2.51	12.6	101.2
41	44	d3-N-MeFOSAA	573.3 > 419	4.41e3	1.01e4	0.361	5.08	4.97	5.46	15.1	121.1
42	45	d5-N-EtFOSAA	589.3 > 419	4.65e3	1.01e4	0.394	5.24	5.14	5.75	14.6	116.8
43	46	13C2-PFUdA	565 > 519.8	9.33e3	1.01e4	0.966	5.25	5.16	11.5	11.9	95.4
44	47	13C2-PFDoA	615.0 > 569.7	1.15e4	1.01e4	0.989	5.55	5.45	14.3	14.4	115.4
45	48	d3-N-MeFOSA	515.2 > 168.9	1.07e4	1.01e4	0.083	5.56	5.55	13.3	161	107.2
46	49	13C2-PFTeDA	714.8 > 669.6	1.01e4	1.01e4	0.927	6.02	5.93	12.5	13.4	107.6
47	50	d5-N-ETFOSA	531.1 > 168.9	1.70e4	1.01e4	0.125	6.01	5.99	21.0	169	112.5
48	51	13C2-PFHxDA	815 > 769.7	4.69e3	1.01e4	0.882	6.32	6.29	5.79	6.57	131.3
49	52	d7-N-MeFOSE	623.1 > 58.9	1.47e4	1.01e4	0.112	6.23	6.19	18.2	163	108.6
50	53	d9-N-EtFOSE	639.2 > 58.8	1.54e4	1.01e4	0.103	6.39	6.34	19.1	185	123.2
51	54	13C4-PFBA	217. > 171.8	8.56e3	8.56e3	1.000	1.17	1.09	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	1.08e4	1.08e4	1.000	2.93	2.83	12.5	12.5	100.0
53	56	13C3-PFHxS	401.9 > 79.9	2.11e3	2.11e3	1.000	3.71	3.61	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	9.25e3	9.25e3	1.000	4.05	3.99	12.5	12.5	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.03e4	1.03e4	1.000	4.55	4.44	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	1.93e3	1.93e3	1.000	4.63	4.53	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	9.39e3	9.39e3	1.000	4.92	4.82	12.5	12.5	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.01e4	1.01e4	1.000	5.25	5.15	12.5	12.5	100.0

80-150

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:20:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171101M2_1	IPA	01-Nov-17	14:44:30
2	171101M2_2	ST171101M2-1 PFC CS-2 17J2705	01-Nov-17	14:55:39
3	171101M2_3	ST171101M2-2 PFC CS-1 17J2706	01-Nov-17	15:06:49
4	171101M2_4	ST171101M2-3 PFC CS0 17J2707	01-Nov-17	15:18:12
5	171101M2_5	ST171101M2-4 PFC CS1 17J2708	01-Nov-17	15:29:47
6	171101M2_6	ST171101M2-5 PFC CS2 17J2710	01-Nov-17	15:40:57
7	171101M2_7	ST171101M2-6 PFC CS3 17J2709	01-Nov-17	15:52:08
8	171101M2_8	ST171101M2-7 PFC CS4 17J2711	01-Nov-17	16:03:19
9	171101M2_9	ST171101M2-8 PFC CS5 17J2712	01-Nov-17	16:14:30
10	171101M2_10	ST171101M2-9 PFC CS6 17J2713	01-Nov-17	16:25:40
11	171101M2_11	ST171101M2-10 PFC CS7 17J2714	01-Nov-17	16:37:23
12	171101M2_12	IPA	01-Nov-17	16:48:52
13	171101M2_13	ICV171101M2-1 PFC ICV 17J2704	01-Nov-17	17:00:03
14	171101M2_14	IPA	01-Nov-17	17:11:13
15	171101M2_15	B7J0189-BS1 OPR 0.25	01-Nov-17	17:22:30
16	171101M2_16	B7J0189-BSD1 LCS Dup 0.25	01-Nov-17	17:33:42
17	171101M2_17	IPA	01-Nov-17	17:44:54
18	171101M2_18	B7J0189-BLK1 Method Blank 0.25	01-Nov-17	17:56:08
19	171101M2_19	1701522-01 WT1710190820JLB 0.25911	01-Nov-17	18:07:45
20	171101M2_20	1701522-02 WT1710190840JLB 0.26878	01-Nov-17	18:19:50
21	171101M2_21	1701522-03 WT1710190900JLB 0.26607	01-Nov-17	18:31:01
22	171101M2_22	1701522-04 WT1710190910JLB 0.26933	01-Nov-17	18:42:12
23	171101M2_23	1701522-05 WT1710190930JLB 0.26129	01-Nov-17	18:53:22
24	171101M2_24	1701522-06 WT1710190945JLB 0.27029	01-Nov-17	19:04:33
25	171101M2_25	1701522-07 WT1710191005JLB 0.25706	01-Nov-17	19:15:44
26	171101M2_26	1701522-08 WT1710191210JLB 0.25294	01-Nov-17	19:26:54
27	171101M2_27	1701522-09 FB1710191215JLB 0.2746	01-Nov-17	19:38:13
28	171101M2_28	1701537-01 WR1710201240 JLB 0.26737	01-Nov-17	19:49:35
29	171101M2_29	1701537-02 WR1710201255 JLB 0.26932	01-Nov-17	20:00:46
30	171101M2_30	IPA	01-Nov-17	20:11:56
31	171101M2_31	ST171101M2-11 PFC CS3 17J2709	01-Nov-17	20:23:07

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:20:59 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	171101M2_32	IPA	01-Nov-17	20:34:18
33	171101M2_33	1701537-03 WR1710201320 JLB 0.26245	01-Nov-17	20:45:28
34	171101M2_34	1701537-04 WR1710201330 JLB 0.24745	01-Nov-17	20:56:39
35	171101M2_35	1701537-05 WR1710201350 JLB 0.25593	01-Nov-17	21:07:50
36	171101M2_36	1701537-06 WR1710201405 JLB 0.26582	01-Nov-17	21:19:01
37	171101M2_37	1701537-07 WR1710201440 JLB 0.26127	01-Nov-17	21:30:11
38	171101M2_38	1701537-08 FB1710201445 JLB 0.2699	01-Nov-17	21:41:22
39	171101M2_39	1701537-09 WR1710201515 JLB 0.26402	01-Nov-17	21:52:33
40	171101M2_40	B7J0197-BS1 OPR 0.125	01-Nov-17	22:03:44
41	171101M2_41	B7J0204-BS1 OPR 0.25	01-Nov-17	22:14:54
42	171101M2_42	B7J0206-BS1 OPR 0.25	01-Nov-17	22:26:09
43	171101M2_43	B7K0005-BS1 OPR 0.125	01-Nov-17	22:37:43
44	171101M2_44	IPA	01-Nov-17	22:49:08
45	171101M2_45	B7J0197-BLK1 Method Blank 0.125	01-Nov-17	23:00:18
46	171101M2_46	B7J0204-BLK1 Method Blank 0.25	01-Nov-17	23:11:29
47	171101M2_47	B7J0206-BLK1 Method Blank 0.25	01-Nov-17	23:22:40
48	171101M2_48	B7K0005-BLK1 Method Blank 0.125	01-Nov-17	23:33:51
49	171101M2_49	B7J0197-MS1 Matrix Spike 0.11658	01-Nov-17	23:45:02
50	171101M2_50	B7J0197-MSD1 Matrix Spike Dup 0.11996	01-Nov-17	23:56:12
51	171101M2_51	1701549-01 YS22-GW11-1017 0.11734	02-Nov-17	00:07:23
52	171101M2_52	1701549-02 YS22-GW11A-1017 0.11617	02-Nov-17	00:18:36
53	171101M2_53	1701549-03 YS22-EB01-102317 0.11792	02-Nov-17	00:29:57
54	171101M2_54	1701549-04 YS22-GW06-1017 0.12012	02-Nov-17	00:41:11
55	171101M2_55	1701549-05 YS22-GW04-1017 0.11633	02-Nov-17	00:52:22
56	171101M2_56	IPA	02-Nov-17	01:03:33
57	171101M2_57	ST171101M2-12 PFC CS3 17J2709	02-Nov-17	01:14:43
58	171101M2_58	IPA	02-Nov-17	01:25:54
59	171101M2_59	1701549-06 YS22-GW07-1017 0.1137	02-Nov-17	01:37:05
60	171101M2_60	1701549-07 YS22-GW12-1017 0.11742	02-Nov-17	01:48:16
61	171101M2_61	1701549-08 YS22-GW12P-1017 0.11797	02-Nov-17	01:59:26
62	171101M2_62	1701549-09 YS22-GW12A-1017 0.11618	02-Nov-17	02:10:37
63	171101M2_63	1701549-10 YS22-GW15-1017 0.11932	02-Nov-17	02:21:48
64	171101M2_64	1701549-11 YS22-GW15A-1017 0.11936	02-Nov-17	02:32:58
65	171101M2_65	1701549-12 YS22-GW13-1017 0.11711	02-Nov-17	02:44:09

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:20:59 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	171101M2_66	1701549-13 YS22-EB02-102517 0.11791	02-Nov-17	02:55:20
67	171101M2_67	1701553-01 WT1710250900JNR 0.25976	02-Nov-17	03:06:31
68	171101M2_68	IPA	02-Nov-17	03:17:41
69	171101M2_69	ST171101M2-13 PFC CS0 17J2707	02-Nov-17	03:28:52
70	171101M2_70	IPA	02-Nov-17	03:40:03
71	171101M2_71	1701553-02 WT1710250915JNR 0.2538	02-Nov-17	03:51:13
72	171101M2_72	1701553-03 WR1710250940JNR 0.25102	02-Nov-17	04:02:24
73	171101M2_73	1701553-04 WT1710250950JNR 0.26075	02-Nov-17	04:13:35
74	171101M2_74	1701553-05 WT1710251005JNR 0.2762	02-Nov-17	04:24:45
75	171101M2_75	1701553-06 WT1710251015JNR 0.25858	02-Nov-17	04:36:13
76	171101M2_76	1701553-07 WT1710251105JNR 0.24899	02-Nov-17	04:47:54
77	171101M2_77	1701553-08 WEFF1710251125JNR 0.2496	02-Nov-17	04:59:04
78	171101M2_78	1701553-09 WT1710251145JNR 0.25619	02-Nov-17	05:10:18
79	171101M2_79	1701553-10 WT1710251305JNR 0.27546	02-Nov-17	05:21:34
80	171101M2_80	1701553-11 WT1710251315JNR 0.24566	02-Nov-17	05:32:46
81	171101M2_81	IPA	02-Nov-17	05:43:56
82	171101M2_82	ST171101M2-14 PFC CS3 17J2709	02-Nov-17	05:55:07
83	171101M2_83	IPA	02-Nov-17	06:06:17
84	171101M2_84	1701553-12 WT1710251330JNR 0.2664	02-Nov-17	06:17:28
85	171101M2_85	1701553-13 FB1710251335JNR 0.259	02-Nov-17	06:28:44
86	171101M2_86	1701553-14 WR1710251350JNR 0.27629	02-Nov-17	06:39:55
87	171101M2_87	1701553-15 WT1710251500JNR 0.25082	02-Nov-17	06:51:06
88	171101M2_88	1701553-16 WT1710251515JNR 0.26699	02-Nov-17	07:02:17
89	171101M2_89	1701553-17 WT1710251530JNR 0.26391	02-Nov-17	07:13:27
90	171101M2_90	1701553-18 WT1710251545JNR 0.24909	02-Nov-17	07:24:42
91	171101M2_91	1701553-19 WT1710251600JNR 0.25246	02-Nov-17	07:35:51
92	171101M2_92	1701553-20 WT1710251610JNR 0.2312	02-Nov-17	07:47:02
93	171101M2_93	1701463-01RE2 Foam LK. Margrethe 0.04247	02-Nov-17	07:58:13
94	171101M2_94	IPA	02-Nov-17	08:09:23
95	171101M2_95	1701484-01RE2 YMCA Beach Foam 0.00102	02-Nov-17	08:20:34
96	171101M2_96	IPA	02-Nov-17	08:31:45
97	171101M2_97	ST171101M2-15 PFC CS3 17J2709	02-Nov-17	08:42:55

LC Calibration Standards Review Checklist 64

		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	NA
Calibration ID: S171101M2-11	L M H	NA	☑	☑	☑	☑	☑	☐
Calibration ID: -12	L M H	☐	☑	☑	☑	☑	☑	☐
Calibration ID: -13	L M H	☐	☑	☑	☑	☑	☑	☐
Calibration ID: -14	L M H	☐	☑ (A)	☑	☑	☑	☑	☐
Calibration ID: -15	L M H	☑	☑	☑	☑	☑	☑	☑
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐

an 11/2/17

Full Mass Cal. Date: 6/21/17

Run Log Present: ☑

# of Samples per Sequence Checked: ☑

Reviewed By: JA. 11/02/2017
Initials/Date

Comments: FULL
(A) PFODA above 130%.

Vista Analytical Laboratory

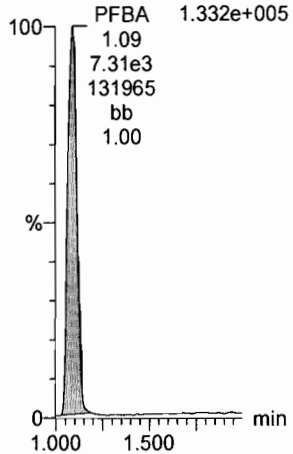
Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

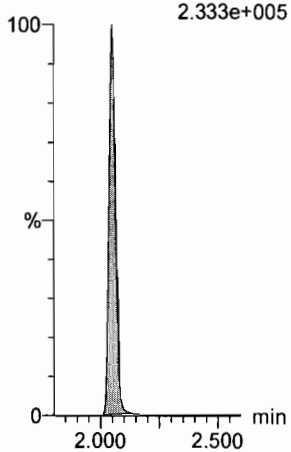
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

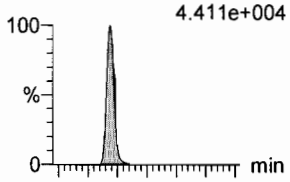
PFBA
F1:MRM of 1 channel,ES-
213.0 > 168.8
1.332e+005



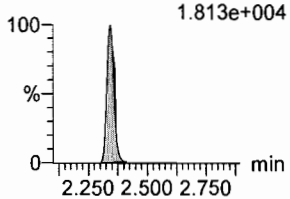
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
2.333e+005



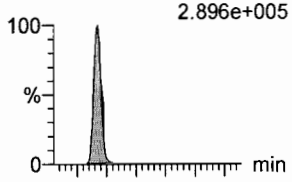
PFBS
F6:MRM of 2 channels,ES-
299.0 > 79.7
4.411e+004



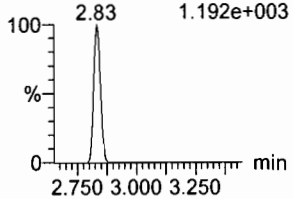
F6:MRM of 2 channels,ES-
299.0 > 99.0
1.813e+004



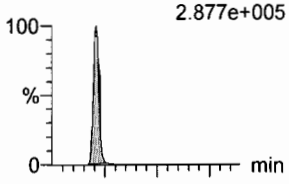
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
2.896e+005



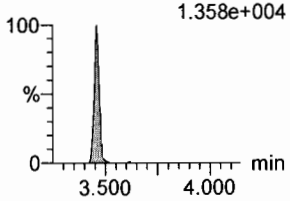
F8:MRM of 2 channels,ES-
313.2 > 119
1.192e+003



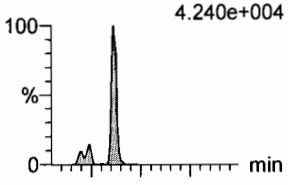
PFHpA
F13:MRM of 2 channels,ES-
363.0 > 318.9
2.877e+005



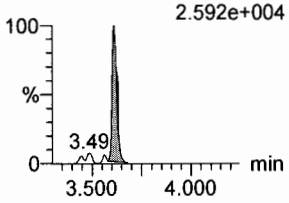
F13:MRM of 2 channels,ES-
363.0 > 169.0
1.358e+004



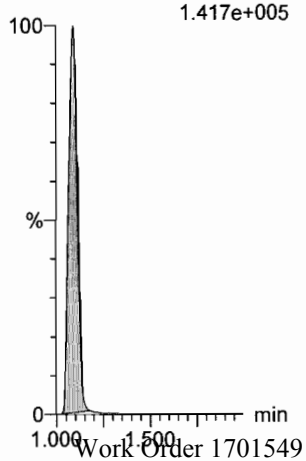
L-PFHxS
F15:MRM of 2 channels,ES-
398.9 > 79.6
4.240e+004



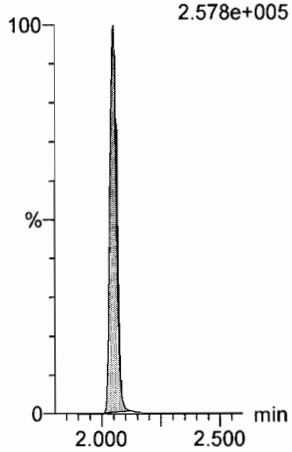
F15:MRM of 2 channels,ES-
398.9 > 99.0
2.592e+004



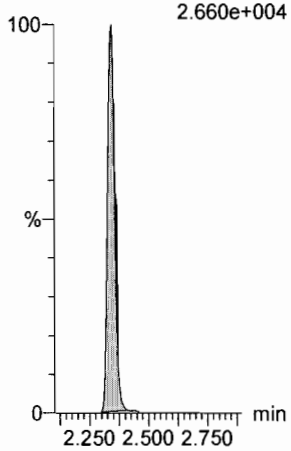
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
1.417e+005



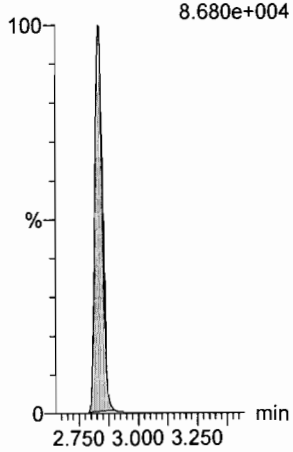
13C3-PFPeA
F5:MRM of 1 channel,ES-
266. > 221.8
2.578e+005



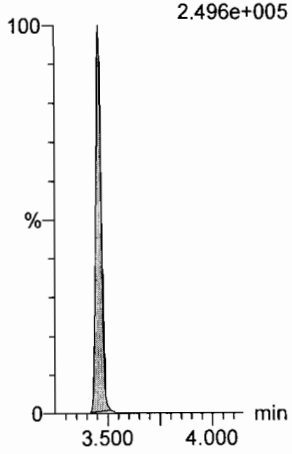
13C3-PFBS
F7:MRM of 1 channel,ES-
302. > 98.8
2.660e+004



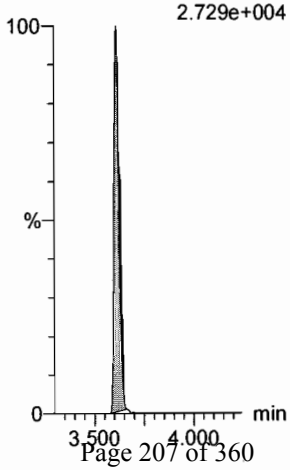
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
8.680e+004



13C4-PFHpA
F14:MRM of 1 channel,ES-
367.2 > 321.8
2.496e+005



18O2-PFHxS
F17:MRM of 1 channel,ES-
403.0 > 102.6
2.729e+004

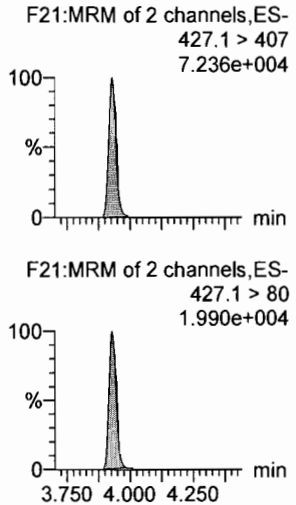


Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

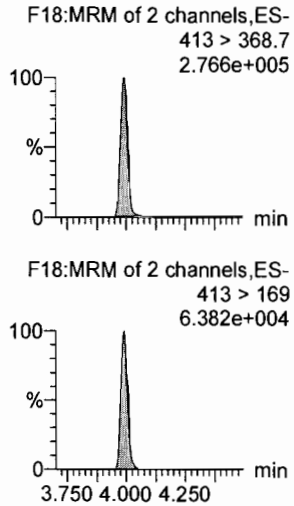
Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

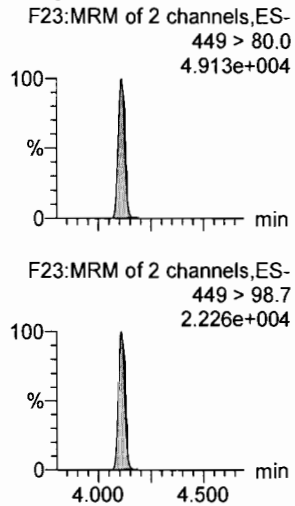
6:2 FTS



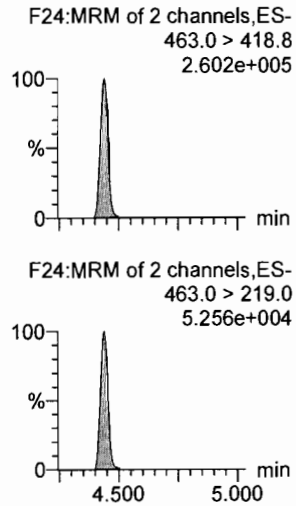
L-PFOA



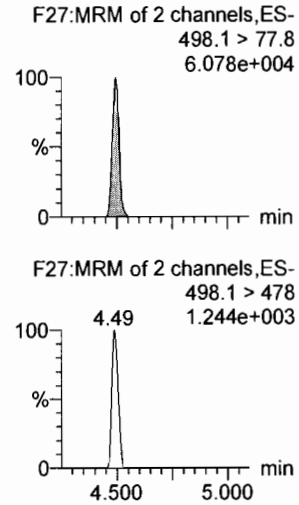
PFHpS



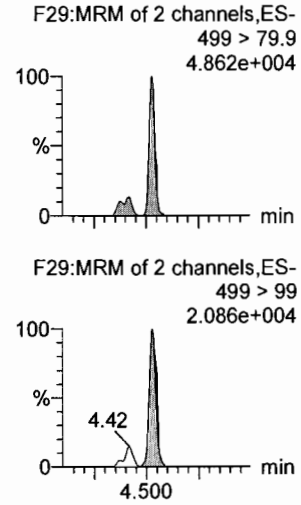
PFNA



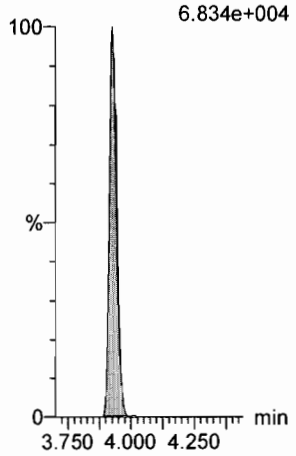
PFOSA



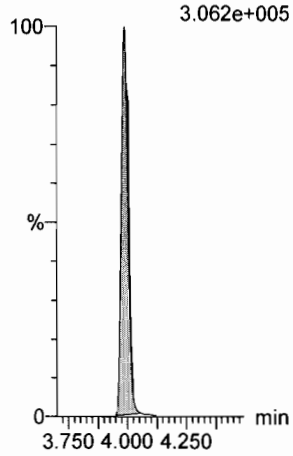
L-PFOS



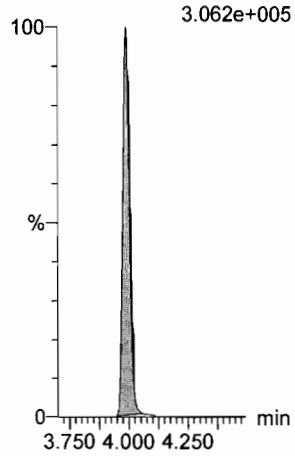
13C2-6:2 FTS



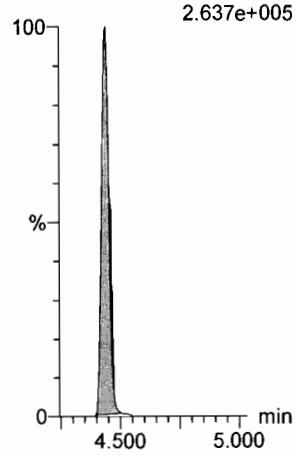
13C2-PFOA



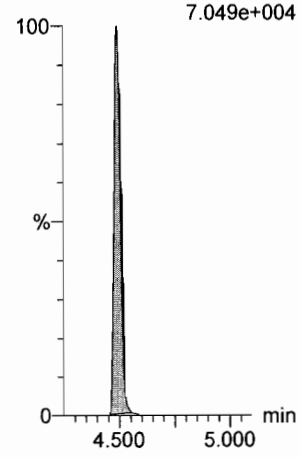
13C2-PFOA



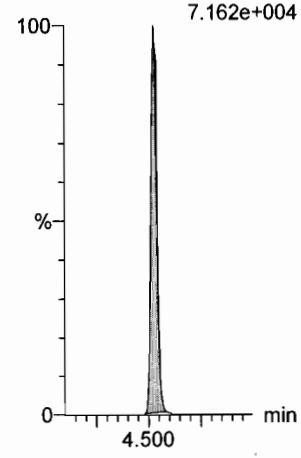
13C5-PFNA



13C8-PFOSA



13C8-PFOS

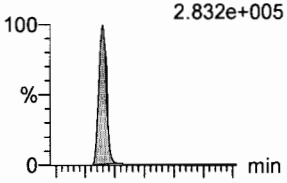


Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

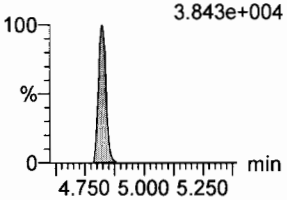
Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

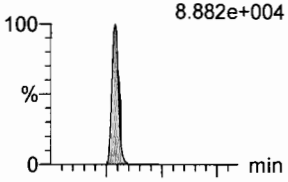
PFDA
F34:MRM of 2 channels,ES-
513 > 468.8
2.832e+005



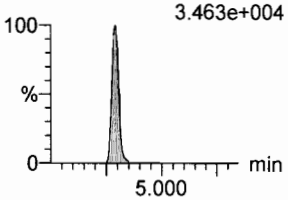
F34:MRM of 2 channels,ES-
513 > 219
3.843e+004



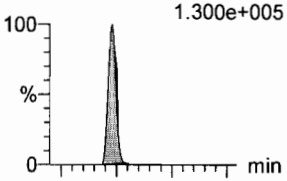
8:2 FTS
F39:MRM of 2 channels,ES-
527 > 506.9
8.882e+004



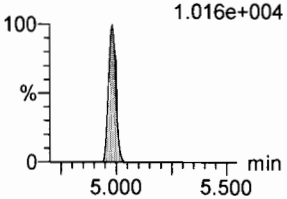
F39:MRM of 2 channels,ES-
527 > 80
3.463e+004



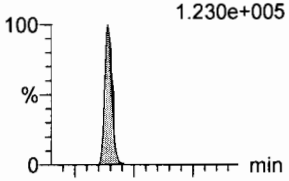
N-MeFOSAA
F44:MRM of 2 channels,ES-
570.1 > 419
1.300e+005



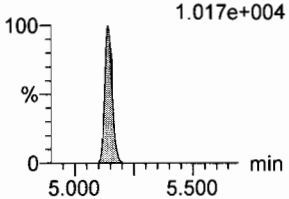
F44:MRM of 2 channels,ES-
570.1 > 483.0
1.016e+004



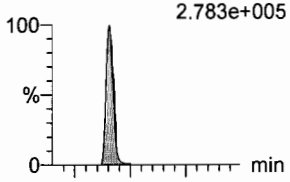
N-EtFOSAA
F47:MRM of 2 channels,ES-
584.2 > 419
1.230e+005



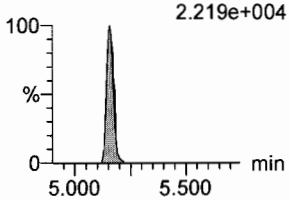
F47:MRM of 2 channels,ES-
584.2 > 483.0
1.017e+004



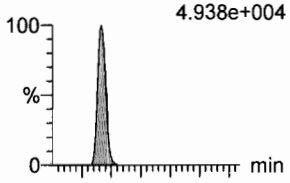
PFUdA
F42:MRM of 2 channels,ES-
563.0 > 518.9
2.783e+005



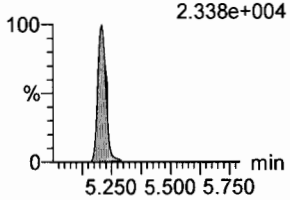
F42:MRM of 2 channels,ES-
563.0 > 269
2.219e+004



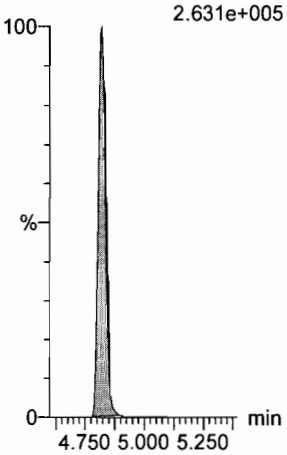
PFDS
F49:MRM of 2 channels,ES-
598.8 > 80
4.938e+004



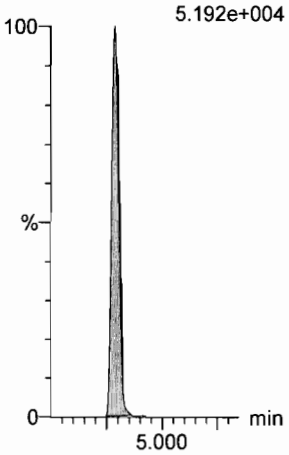
F49:MRM of 2 channels,ES-
598.8 > 98.7
2.338e+004



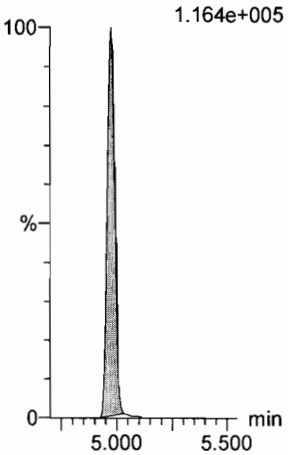
13C2-PFDA
F35:MRM of 1 channel,ES-
515.1 > 469.9
2.631e+005



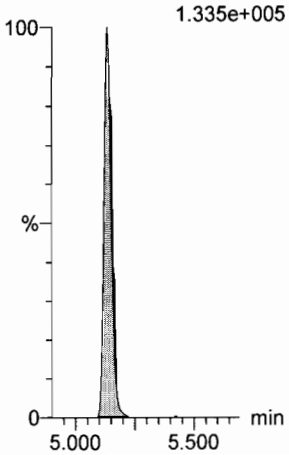
13C2-8:2 FTS
F40:MRM of 1 channel,ES-
529.1 > 508.7
5.192e+004



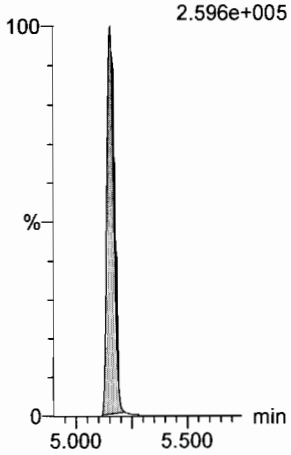
d3-N-MeFOSAA
F46:MRM of 1 channel,ES-
573.3 > 419
1.164e+005



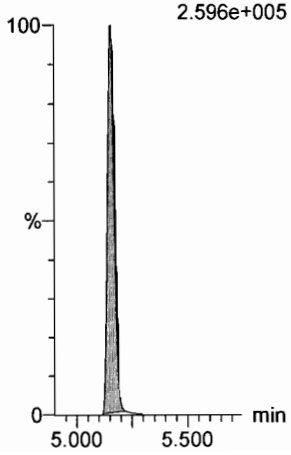
d5-N-EtFOSAA
F48:MRM of 1 channel,ES-
589.3 > 419
1.335e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
2.596e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
2.596e+005

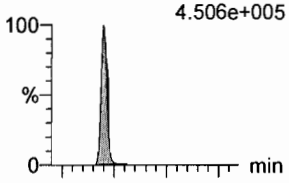


Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

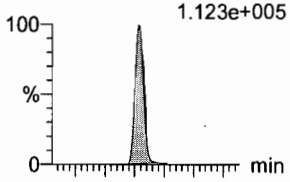
Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

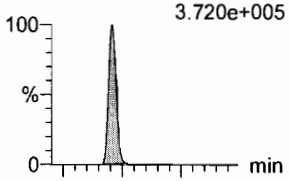
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
4.506e+005



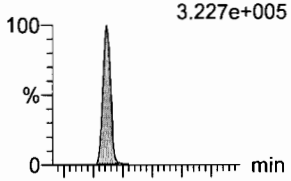
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
1.123e+005



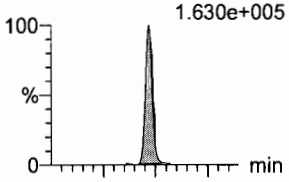
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
3.720e+005



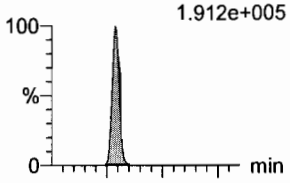
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
3.227e+005



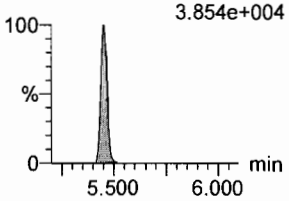
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
1.630e+005



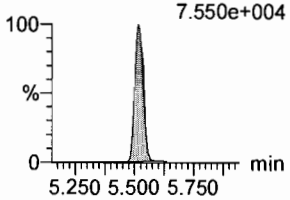
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.912e+005



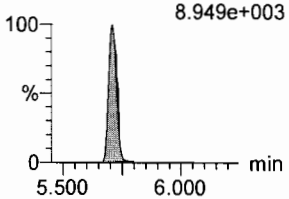
F50:MRM of 2 channels,ES-
612.9 > 318.8
3.854e+004



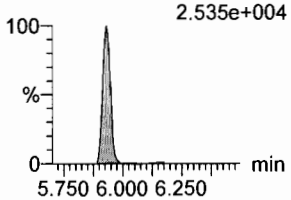
F33:MRM of 2 channels,ES-
512.1 > 219
7.550e+004



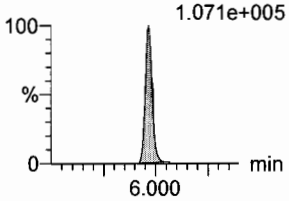
F56:MRM of 2 channels,ES-
662.9 > 319
8.949e+003



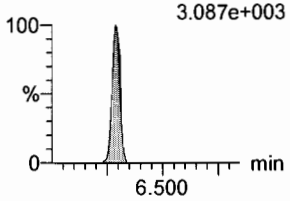
F57:MRM of 2 channels,ES-
712.9 > 369
2.535e+004



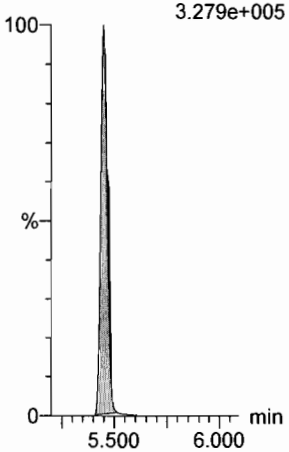
F38:MRM of 2 channels,ES-
526.1 > 219
1.071e+005



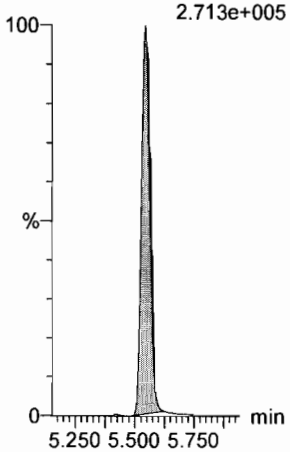
F59:MRM of 2 channels,ES-
813.1 > 219
3.087e+003



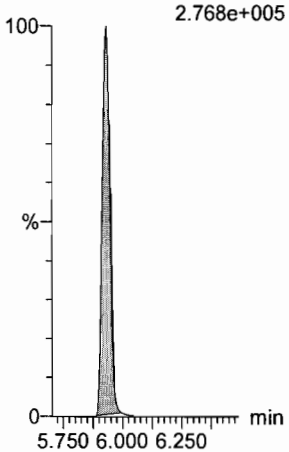
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
3.279e+005



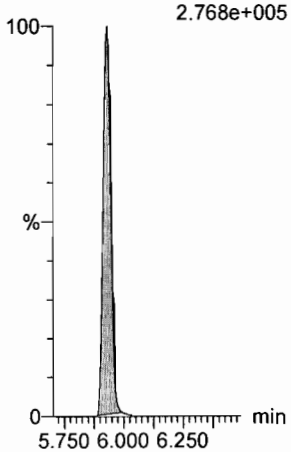
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.713e+005



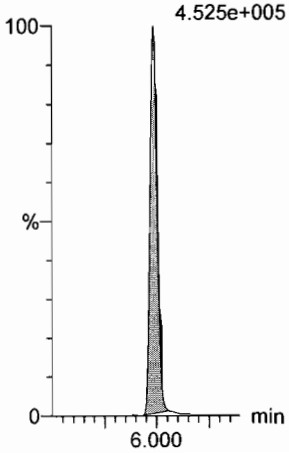
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.768e+005



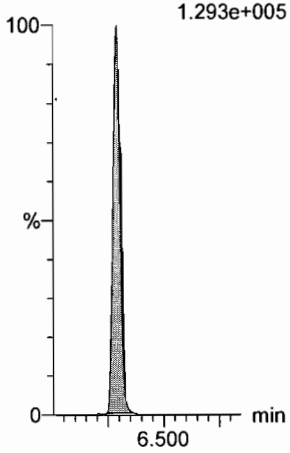
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.768e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.525e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.293e+005

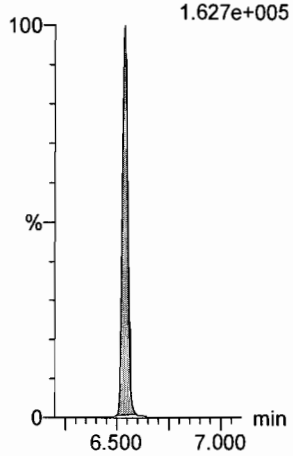


Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

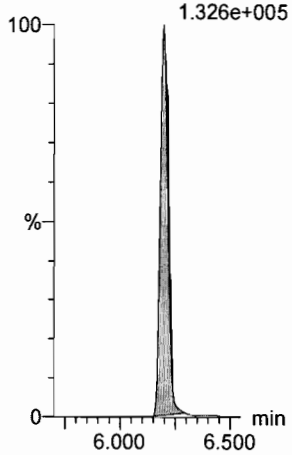
Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

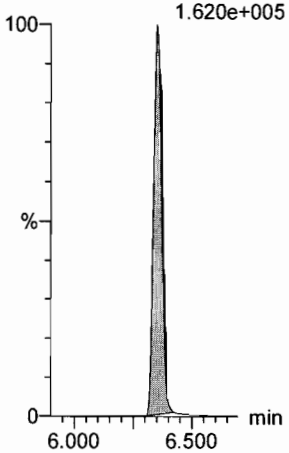
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
1.627e+005



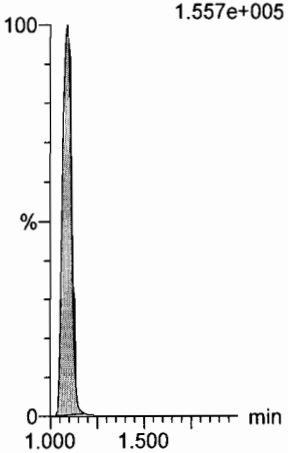
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
1.326e+005



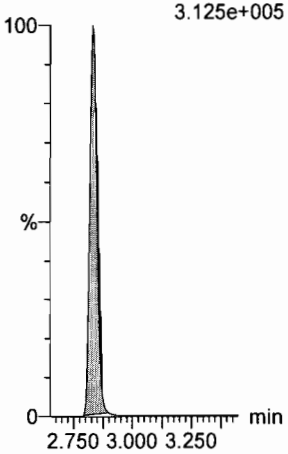
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
1.620e+005



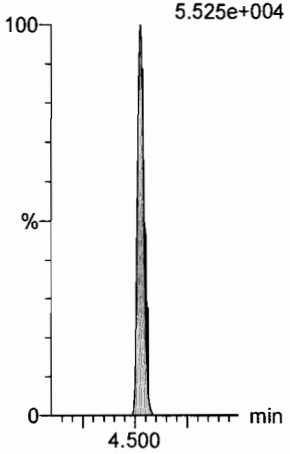
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.557e+005



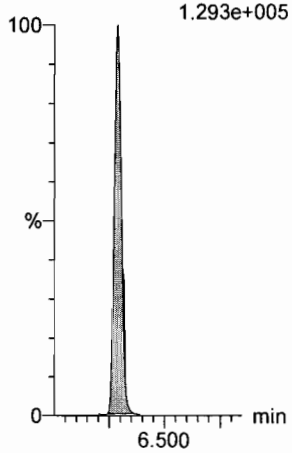
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.125e+005



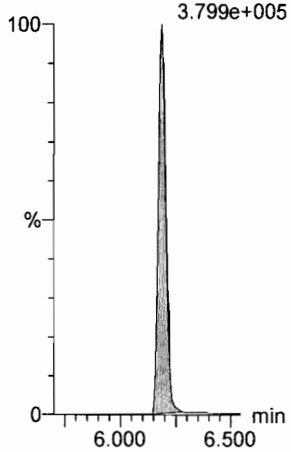
13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
5.525e+004



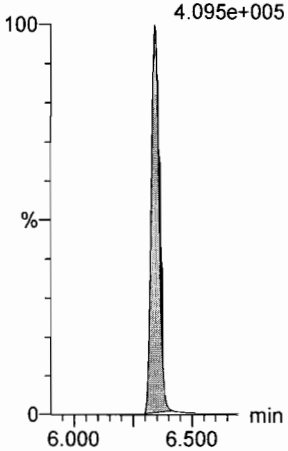
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.293e+005



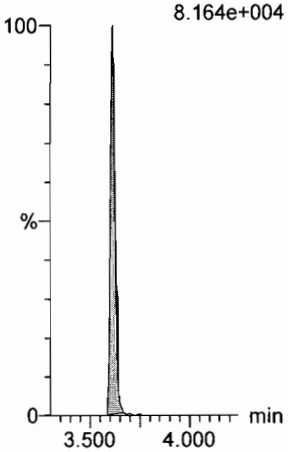
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.799e+005



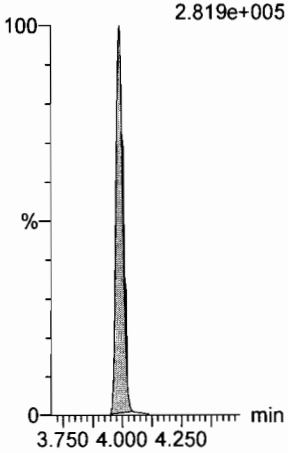
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
4.095e+005



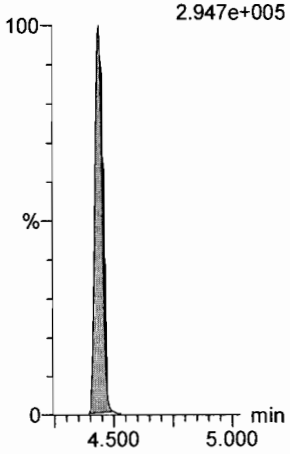
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
8.164e+004



13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.819e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.947e+005

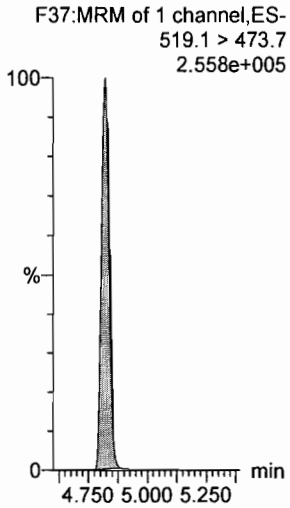


Dataset: U:\Q4.PRO\results\171101M2\171101M2-31.qld

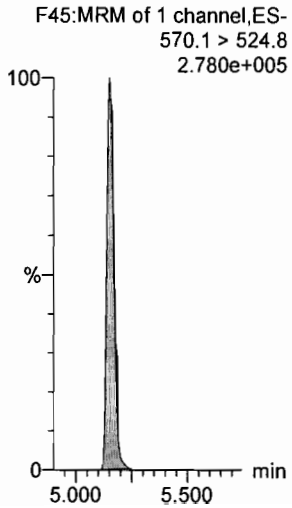
Last Altered: Thursday, November 02, 2017 15:58:35 Pacific Daylight Time
Printed: Thursday, November 02, 2017 15:59:39 Pacific Daylight Time

Name: 171101M2_31, Date: 01-Nov-2017, Time: 20:23:07, ID: ST171101M2-11 PFC CS3 17J2709, Description: PFC CS3 17J2709

13C6-PFDA



13C7-PFUdA



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

Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	7.38e3	7.29e3		1.17	1.09	12.7	10.3	102.7
2	2	PFPeA	263.1 > 218.9	7.31e3	8.15e3		2.15	2.05	11.2	9.89	98.9
3	3	PFBS	299.0 > 79.7	1.79e3	9.17e2		2.44	2.34	24.3	10.0	100.0
4	4	PFHxA	313.2 > 268.9	1.10e4	3.20e3		2.93	2.84	17.2	10.5	104.8
5	5	PFHpA	363.0 > 318.9	8.70e3	7.34e3		3.56	3.46	14.8	9.83	98.3
6	6	L-PFHxS	398.9 > 79.6	1.52e3	7.82e2		3.71	3.61	24.3	10.5	105.0
7	8	6:2 FTS	427.1 > 407	1.94e3	2.43e3		4.03	3.93	9.99	9.45	94.5
8	9	L-PFOA	413 > 368.7	9.30e3	9.53e3		4.05	3.99	12.2	12.1	121.2
9	11	PFHpS	449 > 80.0	1.88e3	9.53e3		4.20	4.11	2.46	11.4	114.2
10	12	PFNA	463.0 > 418.8	1.08e4	9.42e3		4.55	4.43	14.4	9.85	98.5
11	13	PFOSA	498.1 > 77.8	2.22e3	2.52e3		4.59	4.49	11.0	9.60	96.0
12	14	L-PFOS	499 > 79.9	1.90e3	2.00e3		4.63	4.53	11.8	11.3	113.3
13	16	PFDA	513 > 468.8	1.22e4	1.07e4		4.92	4.82	14.3	9.59	95.9
14	17	8:2 FTS	527 > 506.9	3.24e3	2.22e3		4.89	4.79	18.2	10.3	103.0
15	18	N-MeFOSAA	570.1 > 419	5.37e3	4.49e3		5.08	4.98	15.0	9.72	97.2
16	19	N-EtFOSAA	584.2 > 419	5.14e3	4.64e3		5.24	5.14	13.8	10.7	107.0
17	20	PFUdA	563.0 > 518.9	1.03e4	1.16e4		5.25	5.15	11.1	9.36	93.6
18	21	PFDS	598.8 > 80	1.93e3	1.16e4		5.31	5.21	2.07	8.10	81.0
19	22	PFDoA	612.9 > 569.0	1.29e4	1.36e4		5.55	5.44	11.8	8.97	89.7
20	23	N-MeFOSA	512.1 > 168.9	4.24e3	1.05e4		5.56	5.52	60.7	54.1	108.2
21	24	PFTrDA	662.9 > 618.9	1.26e4	1.36e4		5.80	5.70	11.6	9.15	91.5
22	25	PFTeDA	712.9 > 668.8	1.14e4	1.15e4		6.02	5.93	12.5	9.77	97.7
23	26	N-EtFOSA	526.1 > 168.9	5.74e3	1.63e4		6.01	5.97	52.7	49.6	99.1
24	27	PFHxDA	813.1 > 768.6	6.27e3	4.38e3		6.32	6.29	7.16	10.4	103.5
25	28	PFODA	913.1 > 868.8	4.72e3	4.38e3		6.61	6.53	5.39	11.7	116.5
26	29	N-MeFOSE	616.1 > 58.9	5.19e3	1.61e4		6.23	6.19	48.4	44.1	88.2
27	30	N-EtFOSE	630.1 > 58.9	6.40e3	1.62e4		6.39	6.35	59.2	46.6	93.3
28	31	13C3-PFBA	216.1 > 171.8	7.29e3	8.60e3	0.884	1.17	1.09	10.6	12.0	95.9
29	32	13C3-PFPeA	266. > 221.8	8.15e3	1.10e4	0.727	2.15	2.05	9.28	12.8	102.1
30	33	13C3-PFBS	302. > 98.8	9.17e2	1.10e4	0.083	2.44	2.34	1.04	12.6	100.9
31	34	13C2-PFHxA	315 > 269.8	3.20e3	1.10e4	0.703	2.93	2.84	3.64	5.18	103.7

70-130

50-150

AM 11/2/17

✓ JA 11/02/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35	13C4-PFHpA	367.2 > 321.8	7.34e3	1.10e4	0.656	3.56	3.46	8.36	12.7	101.9
33	36	18O2-PFHxS	403.0 > 102.6	7.82e2	2.05e3	0.408	3.71	3.61	4.76	11.7	93.3
34	37	13C2-6:2 FTS	429.1 > 408.9	2.43e3	9.77e3	0.243	4.03	3.93	3.11	12.8	102.3
35	38	13C2-PFOA	414.9 > 369.7	9.53e3	9.77e3	1.076	4.05	3.99	12.2	11.3	90.7
36	39	13C5-PFNA	468.2 > 422.9	9.42e3	1.08e4	0.914	4.55	4.43	10.9	12.0	95.8
37	40	13C8-PFOSA	506.1 > 77.7	2.52e3	1.20e4	0.211	4.59	4.49	2.63	12.5	99.7
38	41	13C8-PFOS	507.0 > 79.9	2.00e3	2.09e3	0.982	4.63	4.53	12.0	12.2	97.5
39	42	13C2-PFDA	515.1 > 469.9	1.07e4	1.13e4	0.891	4.92	4.82	11.8	13.2	105.9
40	43	13C2-8:2 FTS	529.1 > 508.7	2.22e3	1.13e4	0.198	4.89	4.78	2.46	12.4	99.2
41	44	d3-N-MeFOSAA	573.3 > 419	4.49e3	1.20e4	0.361	5.08	4.98	4.68	13.0	103.9
42	45	d5-N-EtFOSAA	589.3 > 419	4.64e3	1.20e4	0.394	5.24	5.13	4.85	12.3	98.4
43	46	13C2-PFUdA	565 > 519.8	1.16e4	1.20e4	0.966	5.25	5.15	12.2	12.6	100.6
44	47	13C2-PFDoA	615.0 > 569.7	1.36e4	1.20e4	0.989	5.55	5.44	14.2	14.4	114.9
45	48	d3-N-MeFOSA	515.2 > 168.9	1.05e4	1.20e4	0.083	5.56	5.55	10.9	133	88.4
46	49	13C2-PFTeDA	714.8 > 669.6	1.15e4	1.20e4	0.927	6.02	5.93	12.0	12.9	103.4
47	50	d5-N-ETFOSA	531.1 > 168.9	1.63e4	1.20e4	0.125	6.01	5.99	17.1	137	91.2
48	51	13C2-PFHxDA	815 > 769.7	4.38e3	1.20e4	0.882	6.32	6.29	4.58	5.18	103.7
49	52	d7-N-MeFOSE	623.1 > 58.9	1.61e4	1.20e4	0.112	6.23	6.19	16.8	150	100.1
50	53	d9-N-EtFOSE	639.2 > 58.8	1.62e4	1.20e4	0.103	6.39	6.34	16.9	164	109.1
51	54	13C4-PFBA	217. > 171.8	8.60e3	8.60e3	1.000	1.17	1.09	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	1.10e4	1.10e4	1.000	2.93	2.83	12.5	12.5	100.0
53	56	13C3-PFHxS	401.9 > 79.9	2.05e3	2.05e3	1.000	3.71	3.61	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	9.77e3	9.77e3	1.000	4.05	3.99	12.5	12.5	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.08e4	1.08e4	1.000	4.55	4.43	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	2.09e3	2.09e3	1.000	4.63	4.53	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	1.13e4	1.13e4	1.000	4.92	4.82	12.5	12.5	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.20e4	1.20e4	1.000	5.25	5.15	12.5	12.5	100.0

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:21:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Compound name: PFBA

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1	171101M2_1	IPA	01-Nov-17	14:44:30
2	171101M2_2	ST171101M2-1 PFC CS-2 17J2705	01-Nov-17	14:55:39
3	171101M2_3	ST171101M2-2 PFC CS-1 17J2706	01-Nov-17	15:06:49
4	171101M2_4	ST171101M2-3 PFC CS0 17J2707	01-Nov-17	15:18:12
5	171101M2_5	ST171101M2-4 PFC CS1 17J2708	01-Nov-17	15:29:47
6	171101M2_6	ST171101M2-5 PFC CS2 17J2710	01-Nov-17	15:40:57
7	171101M2_7	ST171101M2-6 PFC CS3 17J2709	01-Nov-17	15:52:08
8	171101M2_8	ST171101M2-7 PFC CS4 17J2711	01-Nov-17	16:03:19
9	171101M2_9	ST171101M2-8 PFC CS5 17J2712	01-Nov-17	16:14:30
10	171101M2_10	ST171101M2-9 PFC CS6 17J2713	01-Nov-17	16:25:40
11	171101M2_11	ST171101M2-10 PFC CS7 17J2714	01-Nov-17	16:37:23
12	171101M2_12	IPA	01-Nov-17	16:48:52
13	171101M2_13	ICV171101M2-1 PFC ICV 17J2704	01-Nov-17	17:00:03
14	171101M2_14	IPA	01-Nov-17	17:11:13
15	171101M2_15	B7J0189-BS1 OPR 0.25	01-Nov-17	17:22:30
16	171101M2_16	B7J0189-BSD1 LCS Dup 0.25	01-Nov-17	17:33:42
17	171101M2_17	IPA	01-Nov-17	17:44:54
18	171101M2_18	B7J0189-BLK1 Method Blank 0.25	01-Nov-17	17:56:08
19	171101M2_19	1701522-01 WT1710190820JLB 0.25911	01-Nov-17	18:07:45
20	171101M2_20	1701522-02 WT1710190840JLB 0.26878	01-Nov-17	18:19:50
21	171101M2_21	1701522-03 WT1710190900JLB 0.26607	01-Nov-17	18:31:01
22	171101M2_22	1701522-04 WT1710190910JLB 0.26933	01-Nov-17	18:42:12
23	171101M2_23	1701522-05 WT1710190930JLB 0.26129	01-Nov-17	18:53:22
24	171101M2_24	1701522-06 WT1710190945JLB 0.27029	01-Nov-17	19:04:33
25	171101M2_25	1701522-07 WT1710191005JLB 0.25706	01-Nov-17	19:15:44
26	171101M2_26	1701522-08 WT1710191210JLB 0.25294	01-Nov-17	19:26:54
27	171101M2_27	1701522-09 FB1710191215JLB 0.2746	01-Nov-17	19:38:13
28	171101M2_28	1701537-01 WR1710201240 JLB 0.26737	01-Nov-17	19:49:35
29	171101M2_29	1701537-02 WR1710201255 JLB 0.26932	01-Nov-17	20:00:46
30	171101M2_30	IPA	01-Nov-17	20:11:56
31	171101M2_31	ST171101M2-11 PFC CS3 17J2709	01-Nov-17	20:23:07

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:21:02 Pacific Daylight Time

Compound name: PFBA

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32	171101M2_32	IPA	01-Nov-17	20:34:18
33	171101M2_33	1701537-03 WR1710201320 JLB 0.26245	01-Nov-17	20:45:28
34	171101M2_34	1701537-04 WR1710201330 JLB 0.24745	01-Nov-17	20:56:39
35	171101M2_35	1701537-05 WR1710201350 JLB 0.25593	01-Nov-17	21:07:50
36	171101M2_36	1701537-06 WR1710201405 JLB 0.26582	01-Nov-17	21:19:01
37	171101M2_37	1701537-07 WR1710201440 JLB 0.26127	01-Nov-17	21:30:11
38	171101M2_38	1701537-08 FB1710201445 JLB 0.2699	01-Nov-17	21:41:22
39	171101M2_39	1701537-09 WR1710201515 JLB 0.26402	01-Nov-17	21:52:33
40	171101M2_40	B7J0197-BS1 OPR 0.125	01-Nov-17	22:03:44
41	171101M2_41	B7J0204-BS1 OPR 0.25	01-Nov-17	22:14:54
42	171101M2_42	B7J0206-BS1 OPR 0.25	01-Nov-17	22:26:09
43	171101M2_43	B7K0005-BS1 OPR 0.125	01-Nov-17	22:37:43
44	171101M2_44	IPA	01-Nov-17	22:49:08
45	171101M2_45	B7J0197-BLK1 Method Blank 0.125	01-Nov-17	23:00:18
46	171101M2_46	B7J0204-BLK1 Method Blank 0.25	01-Nov-17	23:11:29
47	171101M2_47	B7J0206-BLK1 Method Blank 0.25	01-Nov-17	23:22:40
48	171101M2_48	B7K0005-BLK1 Method Blank 0.125	01-Nov-17	23:33:51
49	171101M2_49	B7J0197-MS1 Matrix Spike 0.11658	01-Nov-17	23:45:02
50	171101M2_50	B7J0197-MSD1 Matrix Spike Dup 0.11996	01-Nov-17	23:56:12
51	171101M2_51	1701549-01 YS22-GW11-1017 0.11734	02-Nov-17	00:07:23
52	171101M2_52	1701549-02 YS22-GW11A-1017 0.11617	02-Nov-17	00:18:36
53	171101M2_53	1701549-03 YS22-EB01-102317 0.11792	02-Nov-17	00:29:57
54	171101M2_54	1701549-04 YS22-GW06-1017 0.12012	02-Nov-17	00:41:11
55	171101M2_55	1701549-05 YS22-GW04-1017 0.11633	02-Nov-17	00:52:22
56	171101M2_56	IPA	02-Nov-17	01:03:33
57	171101M2_57	ST171101M2-12 PFC CS3 17J2709	02-Nov-17	01:14:43
58	171101M2_58	IPA	02-Nov-17	01:25:54
59	171101M2_59	1701549-06 YS22-GW07-1017 0.1137	02-Nov-17	01:37:05
60	171101M2_60	1701549-07 YS22-GW12-1017 0.11742	02-Nov-17	01:48:16
61	171101M2_61	1701549-08 YS22-GW12P-1017 0.11797	02-Nov-17	01:59:26
62	171101M2_62	1701549-09 YS22-GW12A-1017 0.11618	02-Nov-17	02:10:37
63	171101M2_63	1701549-10 YS22-GW15-1017 0.11932	02-Nov-17	02:21:48
64	171101M2_64	1701549-11 YS22-GW15A-1017 0.11936	02-Nov-17	02:32:58
65	171101M2_65	1701549-12 YS22-GW13-1017 0.11711	02-Nov-17	02:44:09

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:21:02 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	171101M2_66	1701549-13 YS22-EB02-102517 0.11791	02-Nov-17	02:55:20
67	171101M2_67	1701553-01 WT1710250900JNR 0.25976	02-Nov-17	03:06:31
68	171101M2_68	IPA	02-Nov-17	03:17:41
69	171101M2_69	ST171101M2-13 PFC CS0 17J2707	02-Nov-17	03:28:52
70	171101M2_70	IPA	02-Nov-17	03:40:03
71	171101M2_71	1701553-02 WT1710250915JNR 0.2538	02-Nov-17	03:51:13
72	171101M2_72	1701553-03 WR1710250940JNR 0.25102	02-Nov-17	04:02:24
73	171101M2_73	1701553-04 WT1710250950JNR 0.26075	02-Nov-17	04:13:35
74	171101M2_74	1701553-05 WT1710251005JNR 0.2762	02-Nov-17	04:24:45
75	171101M2_75	1701553-06 WT1710251015JNR 0.25858	02-Nov-17	04:36:13
76	171101M2_76	1701553-07 WT1710251105JNR 0.24899	02-Nov-17	04:47:54
77	171101M2_77	1701553-08 WEFF1710251125JNR 0.2496	02-Nov-17	04:59:04
78	171101M2_78	1701553-09 WT1710251145JNR 0.25619	02-Nov-17	05:10:18
79	171101M2_79	1701553-10 WT1710251305JNR 0.27546	02-Nov-17	05:21:34
80	171101M2_80	1701553-11 WT1710251315JNR 0.24566	02-Nov-17	05:32:46
81	171101M2_81	IPA	02-Nov-17	05:43:56
82	171101M2_82	ST171101M2-14 PFC CS3 17J2709	02-Nov-17	05:55:07
83	171101M2_83	IPA	02-Nov-17	06:06:17
84	171101M2_84	1701553-12 WT1710251330JNR 0.2664	02-Nov-17	06:17:28
85	171101M2_85	1701553-13 FB1710251335JNR 0.259	02-Nov-17	06:28:44
86	171101M2_86	1701553-14 WR1710251350JNR 0.27629	02-Nov-17	06:39:55
87	171101M2_87	1701553-15 WT1710251500JNR 0.25082	02-Nov-17	06:51:06
88	171101M2_88	1701553-16 WT1710251515JNR 0.26699	02-Nov-17	07:02:17
89	171101M2_89	1701553-17 WT1710251530JNR 0.26391	02-Nov-17	07:13:27
90	171101M2_90	1701553-18 WT1710251545JNR 0.24909	02-Nov-17	07:24:42
91	171101M2_91	1701553-19 WT1710251600JNR 0.25246	02-Nov-17	07:35:51
92	171101M2_92	1701553-20 WT1710251610JNR 0.2312	02-Nov-17	07:47:02
93	171101M2_93	1701463-01RE2 Foam LK. Margrethe 0.04247	02-Nov-17	07:58:13
94	171101M2_94	IPA	02-Nov-17	08:09:23
95	171101M2_95	1701484-01RE2 YMCA Beach Foam 0.00102	02-Nov-17	08:20:34
96	171101M2_96	IPA	02-Nov-17	08:31:45
97	171101M2_97	ST171101M2-15 PFC CS3 17J2709	02-Nov-17	08:42:55

Vista Analytical Laboratory

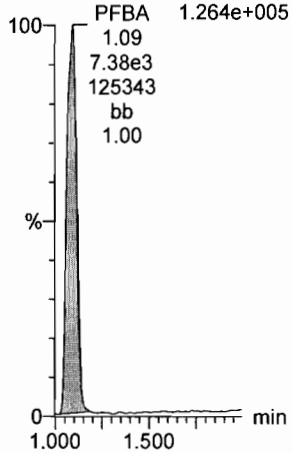
Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

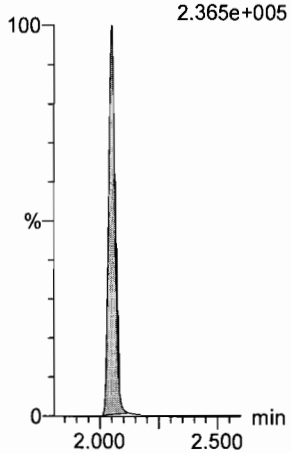
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

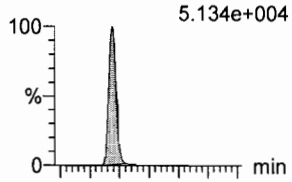
PFBA
F1:MRM of 1 channel,ES-
213.0 > 168.8
1.264e+005



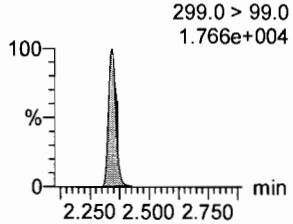
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
2.365e+005



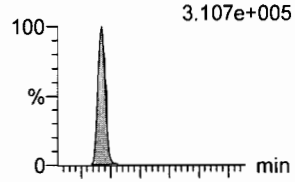
PFBS
F6:MRM of 2 channels,ES-
299.0 > 79.7
5.134e+004



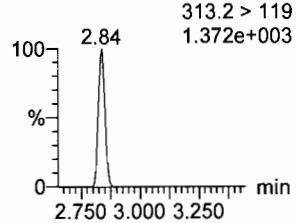
F6:MRM of 2 channels,ES-
299.0 > 99.0
1.766e+004



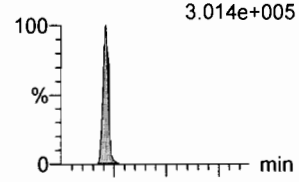
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
3.107e+005



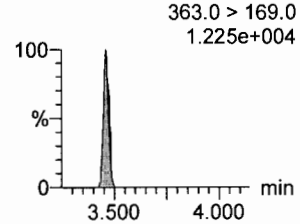
F8:MRM of 2 channels,ES-
313.2 > 119
1.372e+003



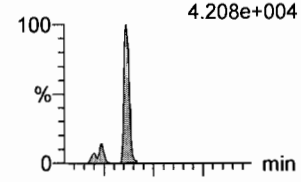
PFHpA
F13:MRM of 2 channels,ES-
363.0 > 318.9
3.014e+005



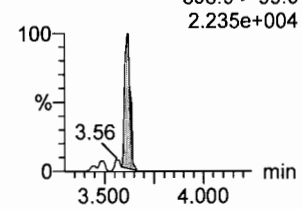
F13:MRM of 2 channels,ES-
363.0 > 169.0
1.225e+004



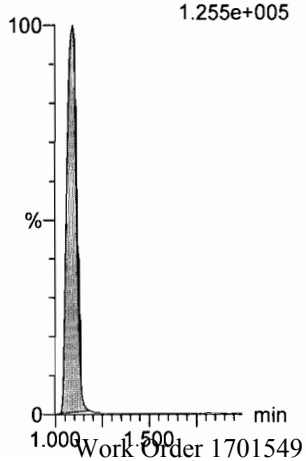
L-PFHxS
F15:MRM of 2 channels,ES-
398.9 > 79.6
4.208e+004



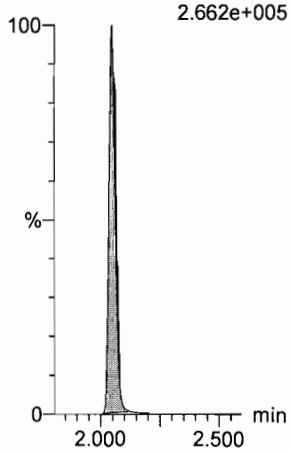
F15:MRM of 2 channels,ES-
398.9 > 99.0
2.235e+004



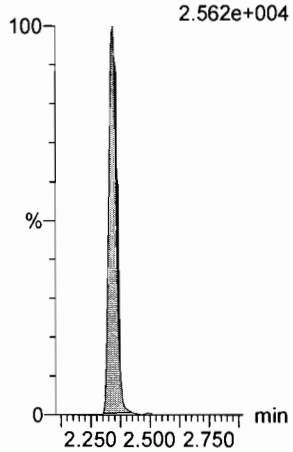
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
1.255e+005



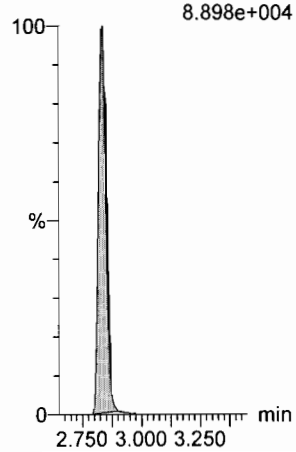
13C3-PFPeA
F5:MRM of 1 channel,ES-
266. > 221.8
2.662e+005



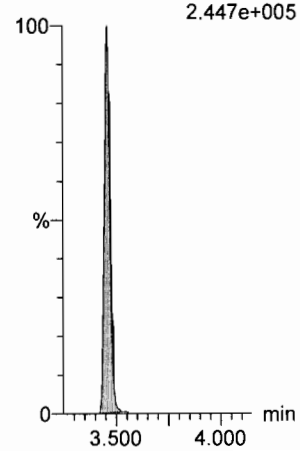
13C3-PFBS
F7:MRM of 1 channel,ES-
302. > 98.8
2.562e+004



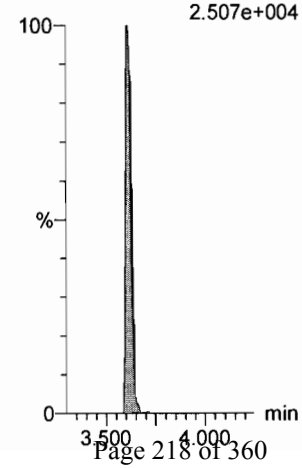
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
8.898e+004



13C4-PFHpA
F14:MRM of 1 channel,ES-
367.2 > 321.8
2.447e+005



18O2-PFHxS
F17:MRM of 1 channel,ES-
403.0 > 102.6
2.507e+004



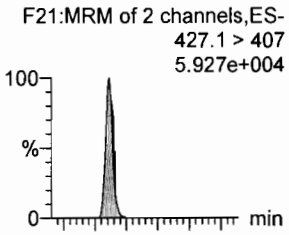
Vista Analytical Laboratory

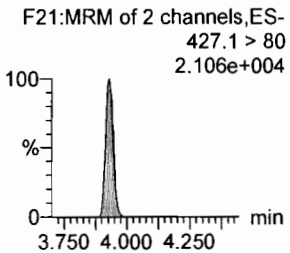
Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

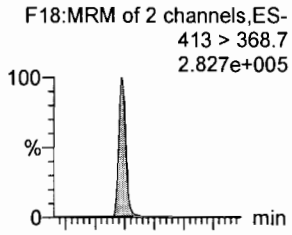
Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

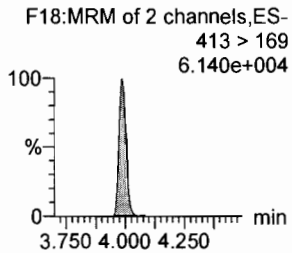
6:2 FTS



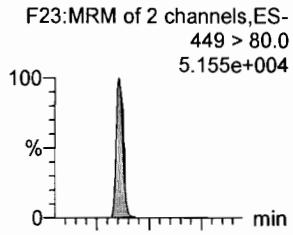


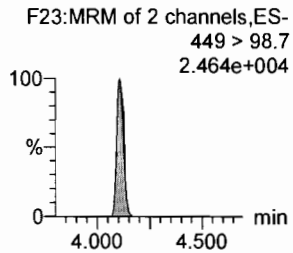
L-PFOA



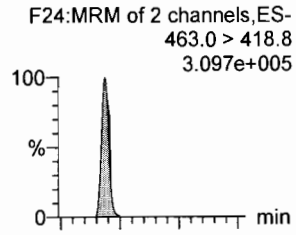


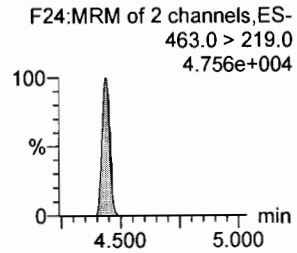
PFHpS



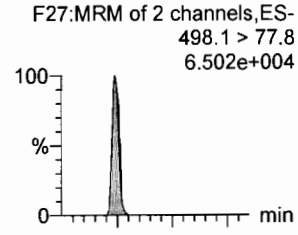


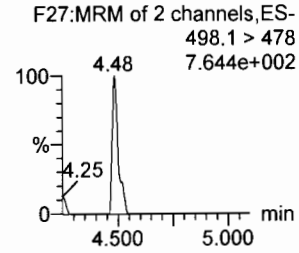
PFNA



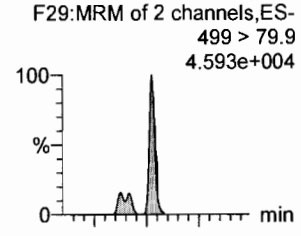


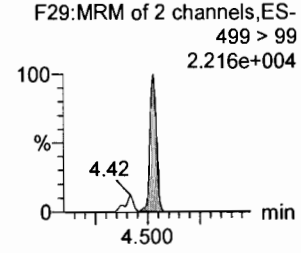
PFOSA



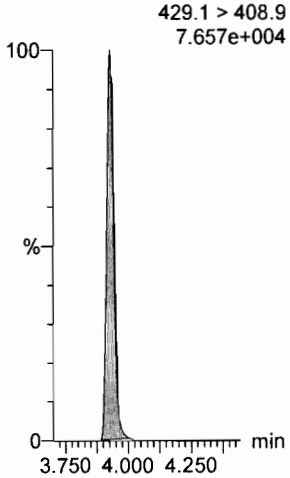


L-PFOS

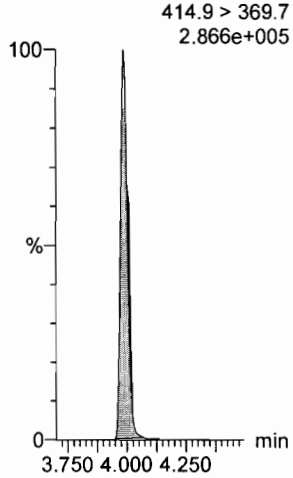




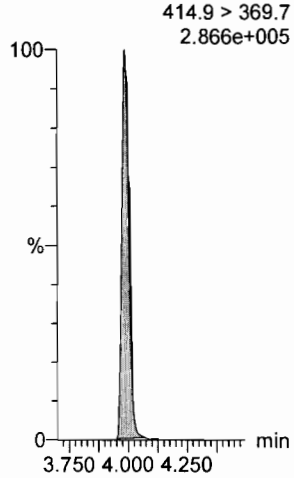
13C2-6:2 FTS



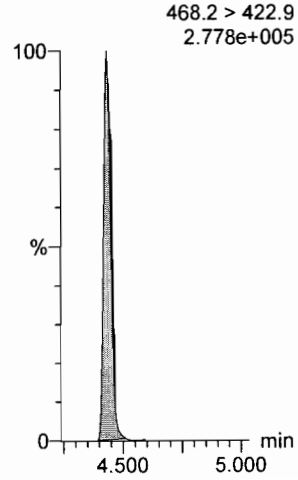
13C2-PFOA



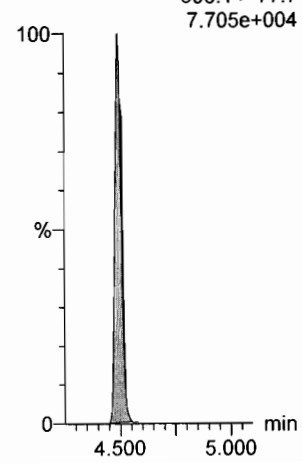
13C2-PFOA



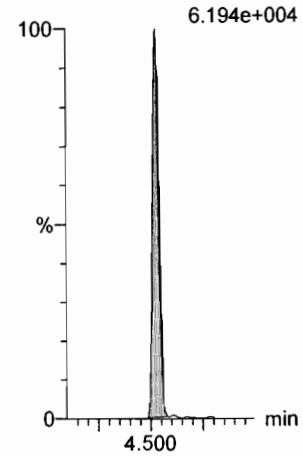
13C5-PFNA



13C8-PFOSA



13C8-PFOS



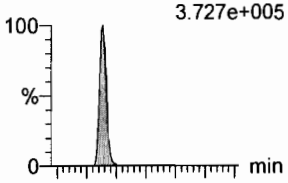
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

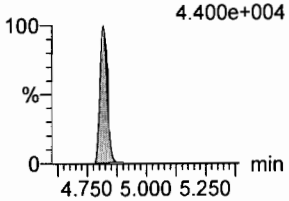
Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

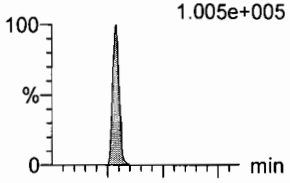
PFDA
F34:MRM of 2 channels,ES-
513 > 468.8
3.727e+005



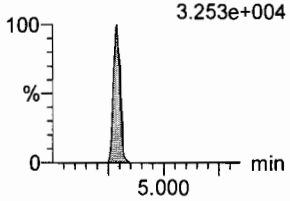
F34:MRM of 2 channels,ES-
513 > 219
4.400e+004



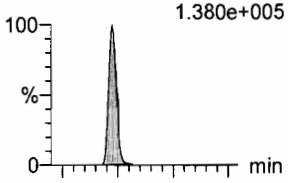
8:2 FTS
F39:MRM of 2 channels,ES-
527 > 506.9
1.005e+005



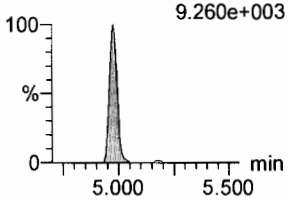
F39:MRM of 2 channels,ES-
527 > 80
3.253e+004



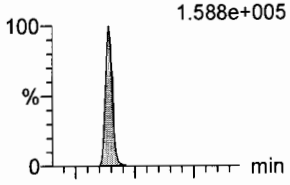
N-MeFOSAA
F44:MRM of 2 channels,ES-
570.1 > 419
1.380e+005



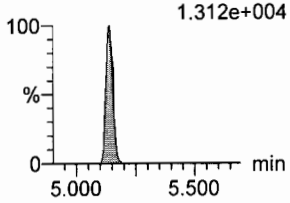
F44:MRM of 2 channels,ES-
570.1 > 483.0
9.260e+003



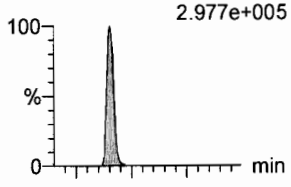
N-EtFOSAA
F47:MRM of 2 channels,ES-
584.2 > 419
1.588e+005



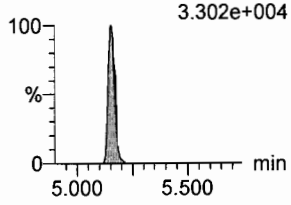
F47:MRM of 2 channels,ES-
584.2 > 483.0
1.312e+004



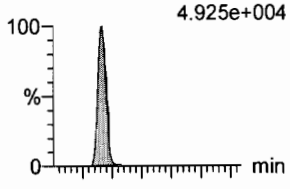
PFUdA
F42:MRM of 2 channels,ES-
563.0 > 518.9
2.977e+005



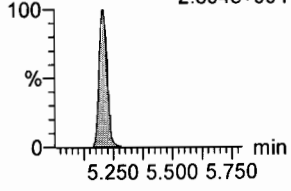
F42:MRM of 2 channels,ES-
563.0 > 269
3.302e+004



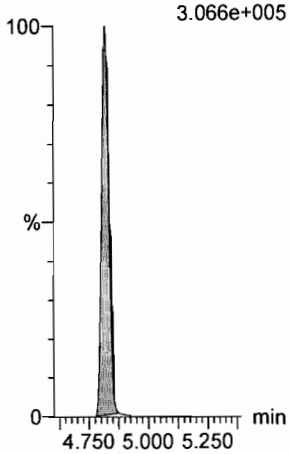
PFDS
F49:MRM of 2 channels,ES-
598.8 > 80
4.925e+004



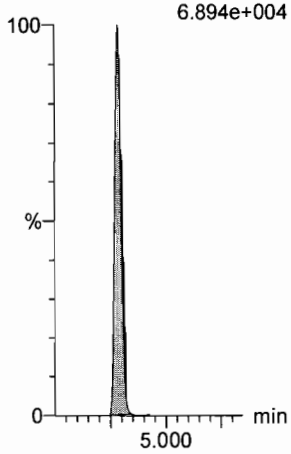
F49:MRM of 2 channels,ES-
598.8 > 98.7
2.804e+004



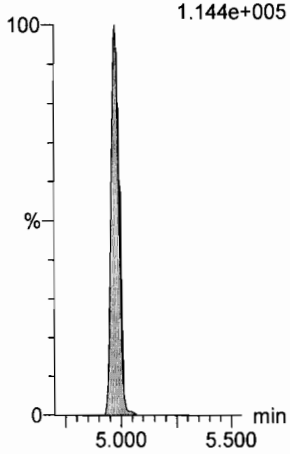
13C2-PFDA
F35:MRM of 1 channel,ES-
515.1 > 469.9
3.066e+005



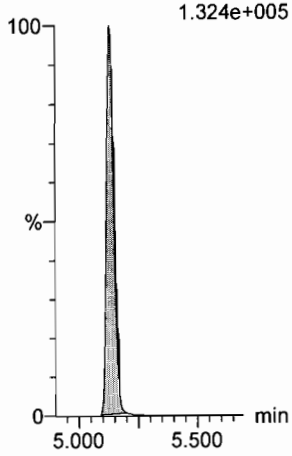
13C2-8:2 FTS
F40:MRM of 1 channel,ES-
529.1 > 508.7
6.894e+004



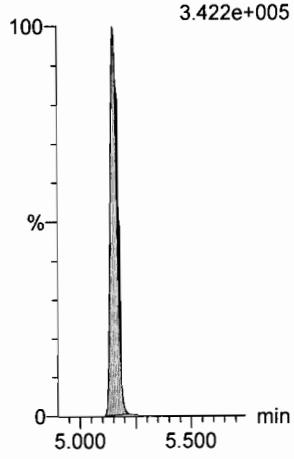
d3-N-MeFOSAA
F46:MRM of 1 channel,ES-
573.3 > 419
1.144e+005



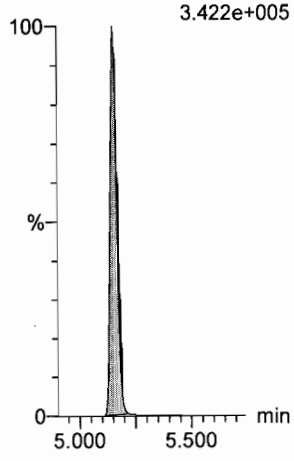
d5-N-EtFOSAA
F48:MRM of 1 channel,ES-
589.3 > 419
1.324e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
3.422e+005



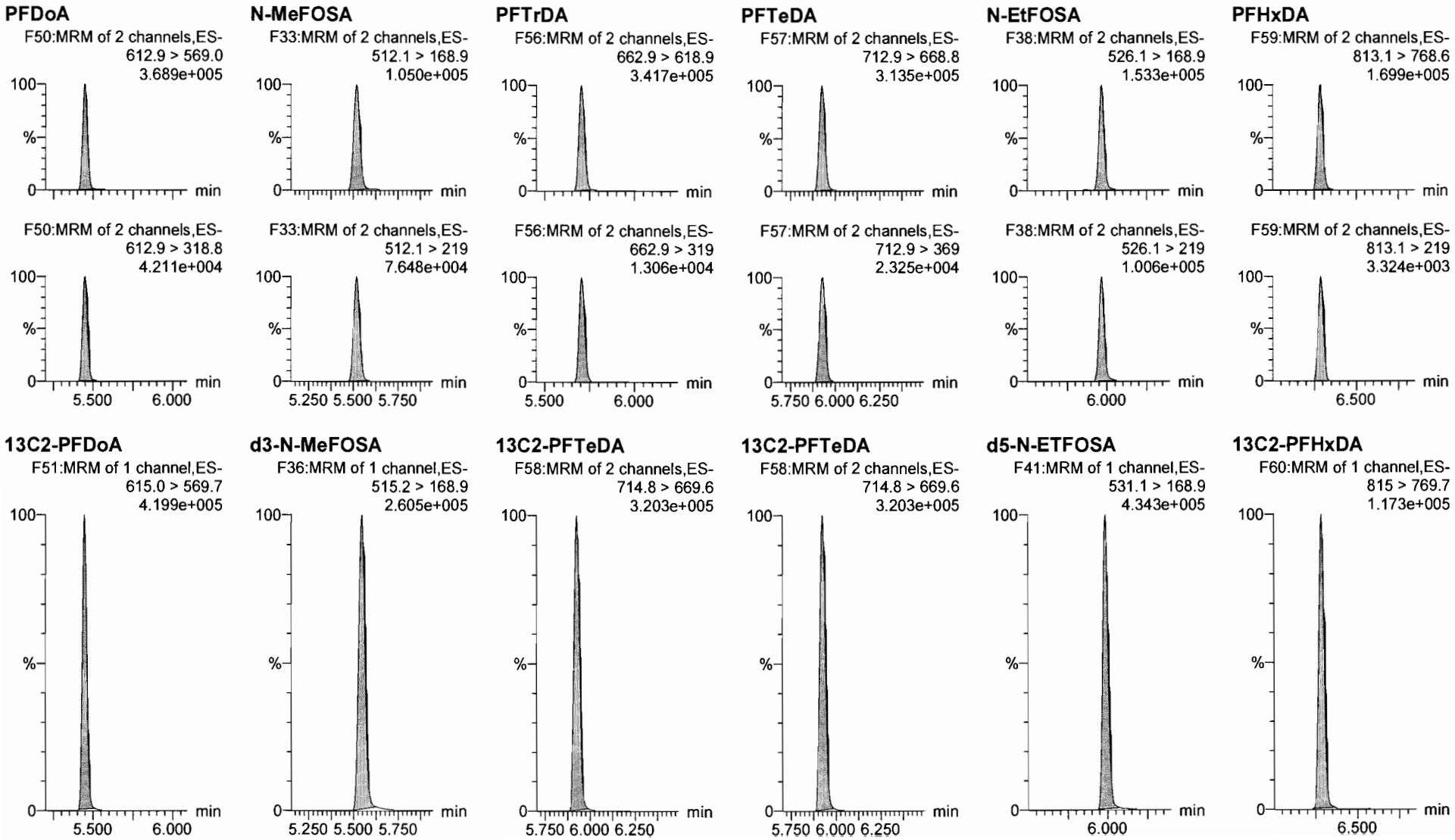
13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
3.422e+005



Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

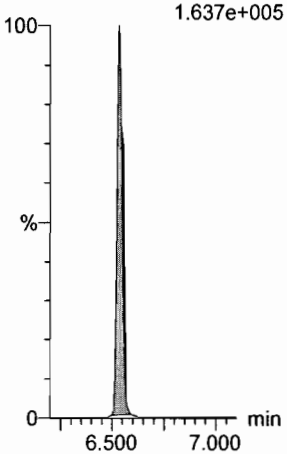


Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

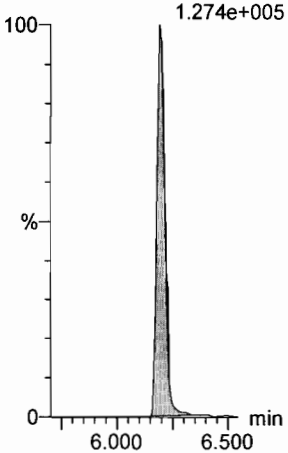
Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

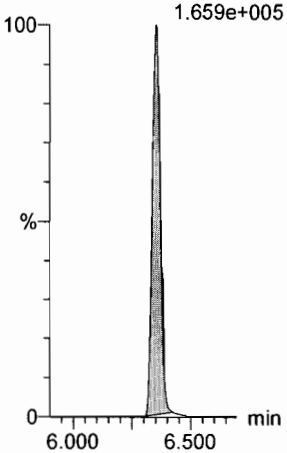
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
1.637e+005



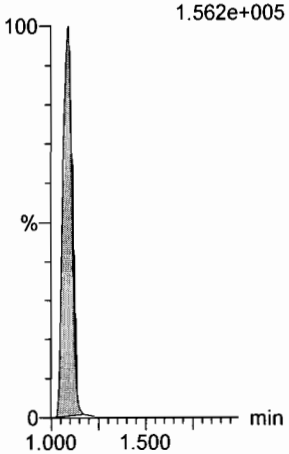
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
1.274e+005



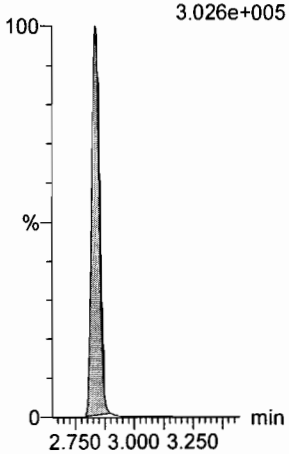
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
1.659e+005



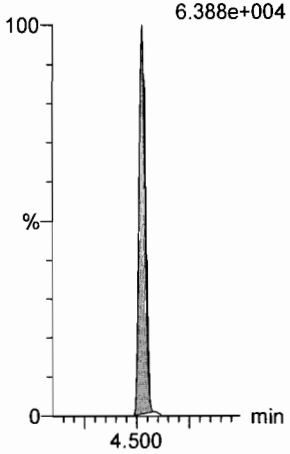
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.562e+005



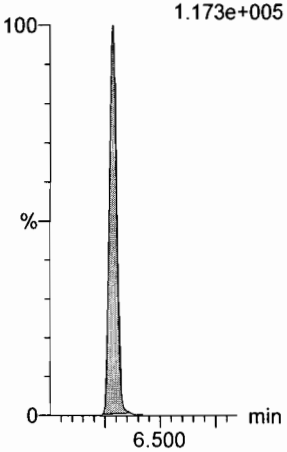
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.026e+005



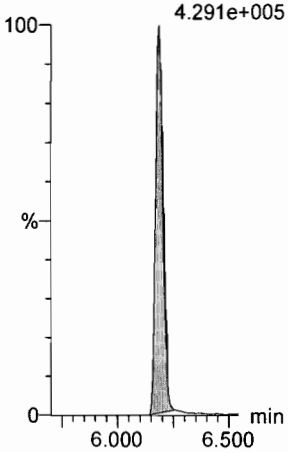
13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.388e+004



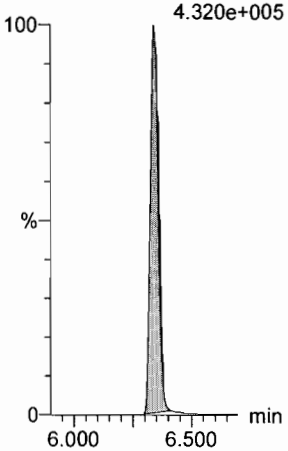
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.173e+005



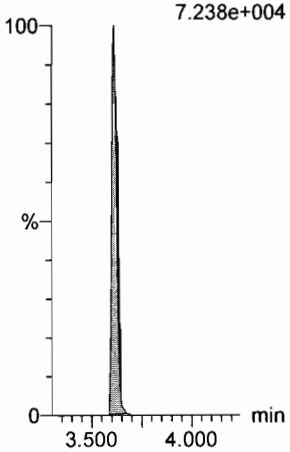
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
4.291e+005



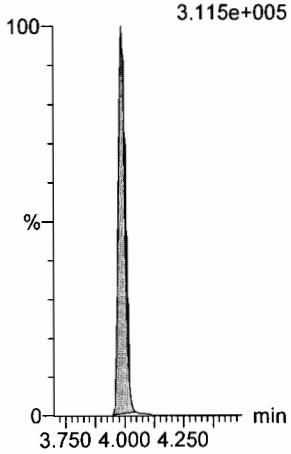
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
4.320e+005



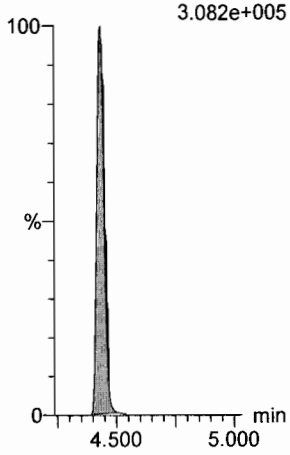
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
7.238e+004



13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
3.115e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
3.082e+005

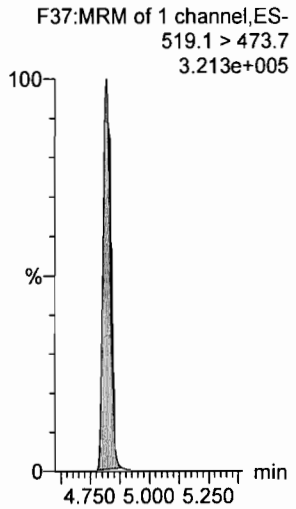


Dataset: U:\Q4.PRO\results\171101M2\171101M2-57.qld

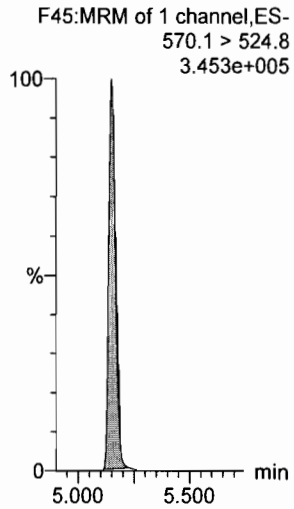
Last Altered: Thursday, November 02, 2017 16:03:06 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:03:22 Pacific Daylight Time

Name: 171101M2_57, Date: 02-Nov-2017, Time: 01:14:43, ID: ST171101M2-12 PFC CS3 17J2709, Description: PFC CS3 17J2709

13C6-PFDA



13C7-PFUdA



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

Dataset: U:\Q4.PRO\results\171101M2\171101M2-69.qld

Last Altered: Thursday, November 02, 2017 16:03:46 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:04:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	8.13e2	7.74e3		1.17	1.07	1.31	1.04	104.2
2	2	PFPeA	263.1 > 218.9	8.04e2	8.37e3		2.15	2.04	1.20	1.00	100.4
3	3	PFBS	299.0 > 79.7	2.23e2	9.98e2		2.44	2.34	2.79	1.11	111.3
4	4	PFHxA	313.2 > 268.9	1.12e3	3.20e3		2.93	2.84	1.75	1.01	101.4
5	5	PFHpA	363.0 > 318.9	1.01e3	7.77e3		3.56	3.46	1.63	1.02	102.2
6	6	L-PFHxS	398.9 > 79.6	1.10e2	8.04e2		3.71	3.62	1.72	0.700	70.0
7	8	6:2 FTS	427.1 > 407	2.32e2	2.06e3		4.03	3.94	1.41	1.18	117.7
8	9	L-PFOA	413 > 368.7	1.34e3	1.09e4		4.05	3.99	1.55	1.27	127.0
9	11	PFHpS	449 > 80.0	2.34e2	1.09e4		4.20	4.11	0.270	1.13	112.8
10	12	PFNA	463.0 > 418.8	1.28e3	9.03e3		4.55	4.43	1.78	1.25	125.3
11	13	PFOSA	498.1 > 77.8	2.36e2	2.22e3		4.59	4.49	1.33	1.17	116.9
12	14	L-PFOS	499 > 79.9	2.13e2	2.01e3		4.63	4.53	1.33	1.23	122.6
13	16	PFDA	513 > 468.8	1.09e3	8.90e3		4.92	4.82	1.53	1.01	100.5
14	17	8:2 FTS	527 > 506.9	2.49e2	1.77e3		4.89	4.78	1.76	0.953	95.3
15	18	N-MeFOSAA	570.1 > 419	6.86e2	4.68e3		5.08	4.98	1.83	0.933	93.3
16	19	N-EtFOSAA	584.2 > 419	3.98e2	4.94e3		5.24	5.14	1.01	0.790	79.0
17	20	PFUdA	563.0 > 518.9	8.14e2	1.07e4		5.25	5.15	0.950	0.854	85.4
18	21	PFDS	598.8 > 80	2.54e2	1.07e4		5.31	5.20	0.296	1.21	121.4
19	22	PFDoA	612.9 > 569.0	1.36e3	1.19e4		5.55	5.44	1.42	1.08	108.1
20	23	N-MeFOSA	512.1 > 168.9	4.86e2	1.03e4		5.56	5.52	7.05	5.89	117.7
21	24	PFTrDA	662.9 > 618.9	1.57e3	1.19e4		5.80	5.70	1.65	1.07	106.6
22	25	PFTeDA	712.9 > 668.8	1.28e3	1.08e4		6.02	5.93	1.48	1.08	108.2
23	26	N-EtFOSA	526.1 > 168.9	5.24e2	1.63e4		6.01	5.97	4.83	4.44	88.9
24	27	PFHxDA	813.1 > 768.6	4.70e2	3.21e3		6.32	6.28	0.732	0.878	87.8
25	28	PFODA	913.1 > 868.8	3.11e2	3.21e3		6.61	6.53	0.485	0.934	93.4
26	29	N-MeFOSE	616.1 > 58.9	4.91e2	1.36e4		6.23	6.19	5.41	4.84	96.7
27	30	N-EtFOSE	630.1 > 58.9	6.77e2	1.44e4		6.39	6.35	7.04	5.27	105.3
28	31	13C3-PFBA	216.1 > 171.8	7.74e3	8.76e3	0.884	1.17	1.07	11.0	12.5	100.0
29	32	13C3-PFPeA	266. > 221.8	8.37e3	1.13e4	0.727	2.15	2.04	9.22	12.7	101.5
30	33	13C3-PFBS	302. > 98.8	9.98e2	1.13e4	0.083	2.44	2.34	1.10	13.3	106.1
31	34	13C2-PFHxA	315 > 269.8	3.20e3	1.13e4	0.703	2.93	2.83	3.53	5.02	100.4

70-130

50-150

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JA. 11/02/2017

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Dataset: U:\Q4.PRO\results\171101M2\171101M2-69.qld

Last Altered: Thursday, November 02, 2017 16:03:46 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:04:24 Pacific Daylight Time

Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35	13C4-PFHpA	367.2 > 321.8	7.77e3	1.13e4	0.656	3.56	3.46	8.56	13.0	104.3
33	36	18O2-PFHxS	403.0 > 102.6	8.04e2	2.08e3	0.408	3.71	3.62	4.83	11.8	94.7
34	37	13C2-6:2 FTS	429.1 > 408.9	2.06e3	1.17e4	0.243	4.03	3.93	2.20	9.05	72.4
35	38	13C2-PFOA	414.9 > 369.7	1.09e4	1.17e4	1.076	4.05	3.99	11.6	10.8	86.5
36	39	13C5-PFNA	468.2 > 422.9	9.03e3	1.01e4	0.914	4.55	4.44	11.1	12.2	97.4
37	40	13C8-PFOSA	506.1 > 77.7	2.22e3	1.13e4	0.211	4.59	4.49	2.46	11.7	93.4
38	41	13C8-PFOS	507.0 > 79.9	2.01e3	2.24e3	0.982	4.63	4.52	11.2	11.4	91.4
39	42	13C2-PFDA	515.1 > 469.9	8.90e3	9.93e3	0.891	4.92	4.82	11.2	12.6	100.5
40	43	13C2-8:2 FTS	529.1 > 508.7	1.77e3	9.93e3	0.198	4.89	4.78	2.22	11.2	89.7
41	44	d3-N-MeFOSAA	573.3 > 419	4.68e3	1.13e4	0.361	5.08	4.97	5.19	14.4	115.1
42	45	d5-N-EtFOSAA	589.3 > 419	4.94e3	1.13e4	0.394	5.24	5.14	5.47	13.9	111.1
43	46	13C2-PFUdA	565 > 519.8	1.07e4	1.13e4	0.966	5.25	5.15	11.9	12.3	98.3
44	47	13C2-PFDoA	615.0 > 569.7	1.19e4	1.13e4	0.989	5.55	5.44	13.2	13.4	106.9
45	48	d3-N-MeFOSA	515.2 > 168.9	1.03e4	1.13e4	0.083	5.56	5.55	11.5	139	92.5
46	49	13C2-PFTeDA	714.8 > 669.6	1.08e4	1.13e4	0.927	6.02	5.93	12.0	12.9	103.3
47	50	d5-N-ETFOSA	531.1 > 168.9	1.63e4	1.13e4	0.125	6.01	5.99	18.0	145	96.5
48	51	13C2-PFHxDA	815 > 769.7	3.21e3	1.13e4	0.882	6.32	6.28	3.56	4.03	80.7
49	52	d7-N-MeFOSE	623.1 > 58.9	1.36e4	1.13e4	0.112	6.23	6.19	15.1	135	90.0
50	53	d9-N-EtFOSE	639.2 > 58.8	1.44e4	1.13e4	0.103	6.39	6.34	16.0	155	103.2
51	54	13C4-PFBA	217. > 171.8	8.76e3	8.76e3	1.000	1.17	1.07	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	1.13e4	1.13e4	1.000	2.93	2.83	12.5	12.5	100.0
53	56	13C3-PFHxS	401.9 > 79.9	2.08e3	2.08e3	1.000	3.71	3.62	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	1.17e4	1.17e4	1.000	4.05	3.99	12.5	12.5	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.01e4	1.01e4	1.000	4.55	4.44	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	2.24e3	2.24e3	1.000	4.63	4.53	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	9.93e3	9.93e3	1.000	4.92	4.82	12.5	12.5	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.13e4	1.13e4	1.000	5.25	5.15	12.5	12.5	100.0

50-150

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

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:21:13 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171101M2_1	IPA	01-Nov-17	14:44:30
2	171101M2_2	ST171101M2-1 PFC CS-2 17J2705	01-Nov-17	14:55:39
3	171101M2_3	ST171101M2-2 PFC CS-1 17J2706	01-Nov-17	15:06:49
4	171101M2_4	ST171101M2-3 PFC CS0 17J2707	01-Nov-17	15:18:12
5	171101M2_5	ST171101M2-4 PFC CS1 17J2708	01-Nov-17	15:29:47
6	171101M2_6	ST171101M2-5 PFC CS2 17J2710	01-Nov-17	15:40:57
7	171101M2_7	ST171101M2-6 PFC CS3 17J2709	01-Nov-17	15:52:08
8	171101M2_8	ST171101M2-7 PFC CS4 17J2711	01-Nov-17	16:03:19
9	171101M2_9	ST171101M2-8 PFC CS5 17J2712	01-Nov-17	16:14:30
10	171101M2_10	ST171101M2-9 PFC CS6 17J2713	01-Nov-17	16:25:40
11	171101M2_11	ST171101M2-10 PFC CS7 17J2714	01-Nov-17	16:37:23
12	171101M2_12	IPA	01-Nov-17	16:48:52
13	171101M2_13	ICV171101M2-1 PFC ICV 17J2704	01-Nov-17	17:00:03
14	171101M2_14	IPA	01-Nov-17	17:11:13
15	171101M2_15	B7J0189-BS1 OPR 0.25	01-Nov-17	17:22:30
16	171101M2_16	B7J0189-BSD1 LCS Dup 0.25	01-Nov-17	17:33:42
17	171101M2_17	IPA	01-Nov-17	17:44:54
18	171101M2_18	B7J0189-BLK1 Method Blank 0.25	01-Nov-17	17:56:08
19	171101M2_19	1701522-01 WT1710190820JLB 0.25911	01-Nov-17	18:07:45
20	171101M2_20	1701522-02 WT1710190840JLB 0.26878	01-Nov-17	18:19:50
21	171101M2_21	1701522-03 WT1710190900JLB 0.26607	01-Nov-17	18:31:01
22	171101M2_22	1701522-04 WT1710190910JLB 0.26933	01-Nov-17	18:42:12
23	171101M2_23	1701522-05 WT1710190930JLB 0.26129	01-Nov-17	18:53:22
24	171101M2_24	1701522-06 WT1710190945JLB 0.27029	01-Nov-17	19:04:33
25	171101M2_25	1701522-07 WT1710191005JLB 0.25706	01-Nov-17	19:15:44
26	171101M2_26	1701522-08 WT1710191210JLB 0.25294	01-Nov-17	19:26:54
27	171101M2_27	1701522-09 FB1710191215JLB 0.2746	01-Nov-17	19:38:13
28	171101M2_28	1701537-01 WR1710201240 JLB 0.26737	01-Nov-17	19:49:35
29	171101M2_29	1701537-02 WR1710201255 JLB 0.26932	01-Nov-17	20:00:46
30	171101M2_30	IPA	01-Nov-17	20:11:56
31	171101M2_31	ST171101M2-11 PFC CS3 17J2709	01-Nov-17	20:23:07

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:21:13 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	171101M2_32	IPA	01-Nov-17	20:34:18
33	171101M2_33	1701537-03 WR1710201320 JLB 0.26245	01-Nov-17	20:45:28
34	171101M2_34	1701537-04 WR1710201330 JLB 0.24745	01-Nov-17	20:56:39
35	171101M2_35	1701537-05 WR1710201350 JLB 0.25593	01-Nov-17	21:07:50
36	171101M2_36	1701537-06 WR1710201405 JLB 0.26582	01-Nov-17	21:19:01
37	171101M2_37	1701537-07 WR1710201440 JLB 0.26127	01-Nov-17	21:30:11
38	171101M2_38	1701537-08 FB1710201445 JLB 0.2699	01-Nov-17	21:41:22
39	171101M2_39	1701537-09 WR1710201515 JLB 0.26402	01-Nov-17	21:52:33
40	171101M2_40	B7J0197-BS1 OPR 0.125	01-Nov-17	22:03:44
41	171101M2_41	B7J0204-BS1 OPR 0.25	01-Nov-17	22:14:54
42	171101M2_42	B7J0206-BS1 OPR 0.25	01-Nov-17	22:26:09
43	171101M2_43	B7K0005-BS1 OPR 0.125	01-Nov-17	22:37:43
44	171101M2_44	IPA	01-Nov-17	22:49:08
45	171101M2_45	B7J0197-BLK1 Method Blank 0.125	01-Nov-17	23:00:18
46	171101M2_46	B7J0204-BLK1 Method Blank 0.25	01-Nov-17	23:11:29
47	171101M2_47	B7J0206-BLK1 Method Blank 0.25	01-Nov-17	23:22:40
48	171101M2_48	B7K0005-BLK1 Method Blank 0.125	01-Nov-17	23:33:51
49	171101M2_49	B7J0197-MS1 Matrix Spike 0.11658	01-Nov-17	23:45:02
50	171101M2_50	B7J0197-MSD1 Matrix Spike Dup 0.11996	01-Nov-17	23:56:12
51	171101M2_51	1701549-01 YS22-GW11-1017 0.11734	02-Nov-17	00:07:23
52	171101M2_52	1701549-02 YS22-GW11A-1017 0.11617	02-Nov-17	00:18:36
53	171101M2_53	1701549-03 YS22-EB01-102317 0.11792	02-Nov-17	00:29:57
54	171101M2_54	1701549-04 YS22-GW06-1017 0.12012	02-Nov-17	00:41:11
55	171101M2_55	1701549-05 YS22-GW04-1017 0.11633	02-Nov-17	00:52:22
56	171101M2_56	IPA	02-Nov-17	01:03:33
57	171101M2_57	ST171101M2-12 PFC CS3 17J2709	02-Nov-17	01:14:43
58	171101M2_58	IPA	02-Nov-17	01:25:54
59	171101M2_59	1701549-06 YS22-GW07-1017 0.1137	02-Nov-17	01:37:05
60	171101M2_60	1701549-07 YS22-GW12-1017 0.11742	02-Nov-17	01:48:16
61	171101M2_61	1701549-08 YS22-GW12P-1017 0.11797	02-Nov-17	01:59:26
62	171101M2_62	1701549-09 YS22-GW12A-1017 0.11618	02-Nov-17	02:10:37
63	171101M2_63	1701549-10 YS22-GW15-1017 0.11932	02-Nov-17	02:21:48
64	171101M2_64	1701549-11 YS22-GW15A-1017 0.11936	02-Nov-17	02:32:58
65	171101M2_65	1701549-12 YS22-GW13-1017 0.11711	02-Nov-17	02:44:09

Dataset: U:\Q4.PRO\results\171101M2\171101M2-LOG.qld

Last Altered: Thursday, November 02, 2017 16:19:58 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:21:13 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	171101M2_66	1701549-13 YS22-EB02-102517 0.11791	02-Nov-17	02:55:20
67	171101M2_67	1701553-01 WT1710250900JNR 0.25976	02-Nov-17	03:06:31
68	171101M2_68	IPA	02-Nov-17	03:17:41
69	171101M2_69	ST171101M2-13 PFC CS0 17J2707	02-Nov-17	03:28:52
70	171101M2_70	IPA	02-Nov-17	03:40:03
71	171101M2_71	1701553-02 WT1710250915JNR 0.2538	02-Nov-17	03:51:13
72	171101M2_72	1701553-03 WR1710250940JNR 0.25102	02-Nov-17	04:02:24
73	171101M2_73	1701553-04 WT1710250950JNR 0.26075	02-Nov-17	04:13:35
74	171101M2_74	1701553-05 WT1710251005JNR 0.2762	02-Nov-17	04:24:45
75	171101M2_75	1701553-06 WT1710251015JNR 0.25858	02-Nov-17	04:36:13
76	171101M2_76	1701553-07 WT1710251105JNR 0.24899	02-Nov-17	04:47:54
77	171101M2_77	1701553-08 WEFF1710251125JNR 0.2496	02-Nov-17	04:59:04
78	171101M2_78	1701553-09 WT1710251145JNR 0.25619	02-Nov-17	05:10:18
79	171101M2_79	1701553-10 WT1710251305JNR 0.27546	02-Nov-17	05:21:34
80	171101M2_80	1701553-11 WT1710251315JNR 0.24566	02-Nov-17	05:32:46
81	171101M2_81	IPA	02-Nov-17	05:43:56
82	171101M2_82	ST171101M2-14 PFC CS3 17J2709	02-Nov-17	05:55:07
83	171101M2_83	IPA	02-Nov-17	06:06:17
84	171101M2_84	1701553-12 WT1710251330JNR 0.2664	02-Nov-17	06:17:28
85	171101M2_85	1701553-13 FB1710251335JNR 0.259	02-Nov-17	06:28:44
86	171101M2_86	1701553-14 WR1710251350JNR 0.27629	02-Nov-17	06:39:55
87	171101M2_87	1701553-15 WT1710251500JNR 0.25082	02-Nov-17	06:51:06
88	171101M2_88	1701553-16 WT1710251515JNR 0.26699	02-Nov-17	07:02:17
89	171101M2_89	1701553-17 WT1710251530JNR 0.26391	02-Nov-17	07:13:27
90	171101M2_90	1701553-18 WT1710251545JNR 0.24909	02-Nov-17	07:24:42
91	171101M2_91	1701553-19 WT1710251600JNR 0.25246	02-Nov-17	07:35:51
92	171101M2_92	1701553-20 WT1710251610JNR 0.2312	02-Nov-17	07:47:02
93	171101M2_93	1701463-01RE2 Foam LK. Margrethe 0.04247	02-Nov-17	07:58:13
94	171101M2_94	IPA	02-Nov-17	08:09:23
95	171101M2_95	1701484-01RE2 YMCA Beach Foam 0.00102	02-Nov-17	08:20:34
96	171101M2_96	IPA	02-Nov-17	08:31:45
97	171101M2_97	ST171101M2-15 PFC CS3 17J2709	02-Nov-17	08:42:55

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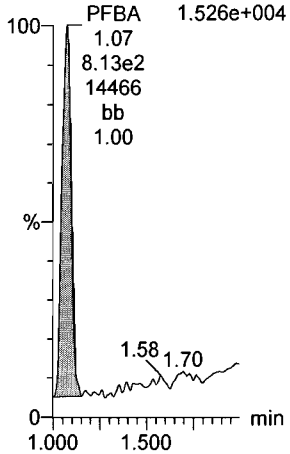
Dataset: U:\Q4.PRO\results\171101M2\171101M2-69.qld

Last Altered: Thursday, November 02, 2017 16:03:46 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:04:24 Pacific Daylight Time

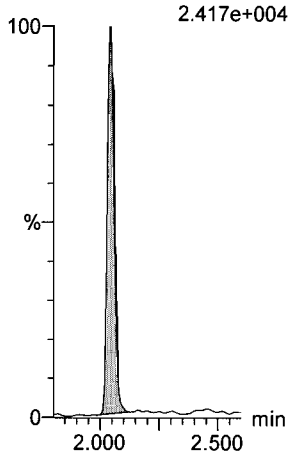
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

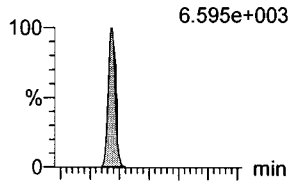
PFBA
F1:MRM of 1 channel,ES-
213.0 > 168.8
1.526e+004



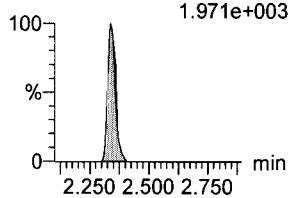
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
2.417e+004



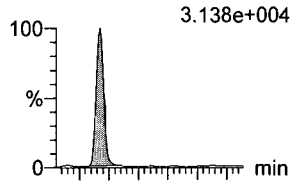
PFBS
F6:MRM of 2 channels,ES-
299.0 > 79.7
6.595e+003



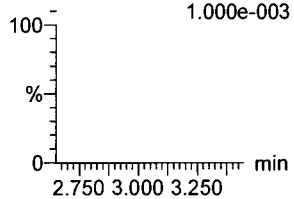
F6:MRM of 2 channels,ES-
299.0 > 99.0
1.971e+003



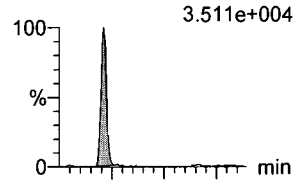
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
3.138e+004



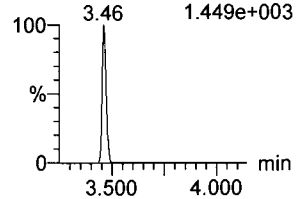
F8:MRM of 2 channels,ES-
313.2 > 119
1.000e-003



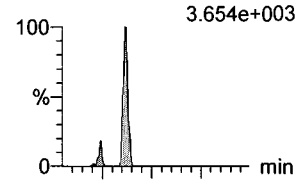
PFHpA
F13:MRM of 2 channels,ES-
363.0 > 318.9
3.511e+004



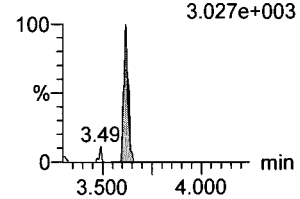
F13:MRM of 2 channels,ES-
363.0 > 169.0
1.449e+003



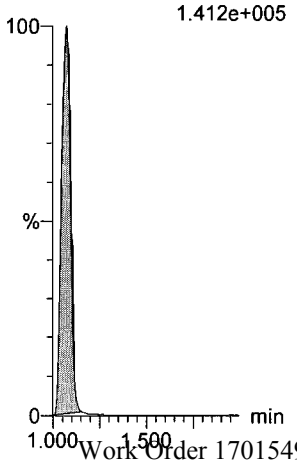
L-PFHxS
F15:MRM of 2 channels,ES-
398.9 > 79.6
3.654e+003



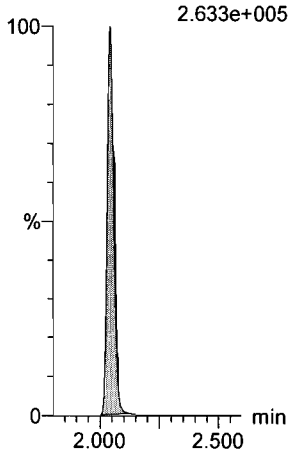
F15:MRM of 2 channels,ES-
398.9 > 99.0
3.027e+003



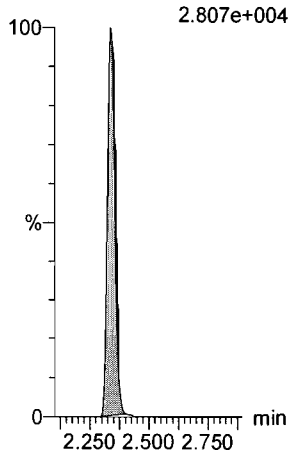
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
1.412e+005



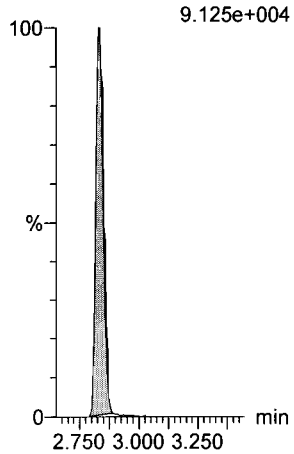
13C3-PFPeA
F5:MRM of 1 channel,ES-
266. > 221.8
2.633e+005



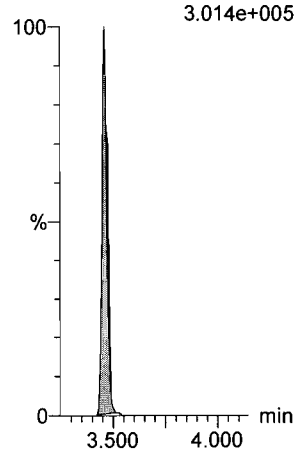
13C3-PFBS
F7:MRM of 1 channel,ES-
302. > 98.8
2.807e+004



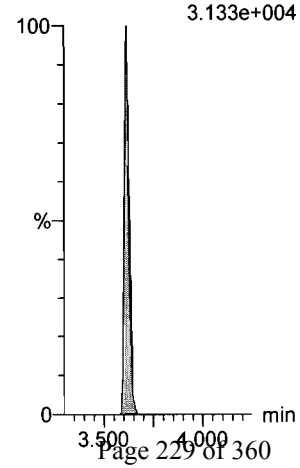
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
9.125e+004



13C4-PFHpA
F14:MRM of 1 channel,ES-
367.2 > 321.8
3.014e+005



18O2-PFHxS
F17:MRM of 1 channel,ES-
403.0 > 102.6
3.133e+004



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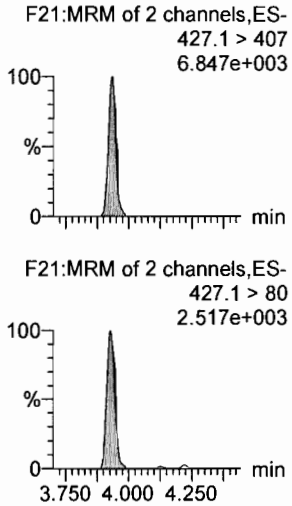
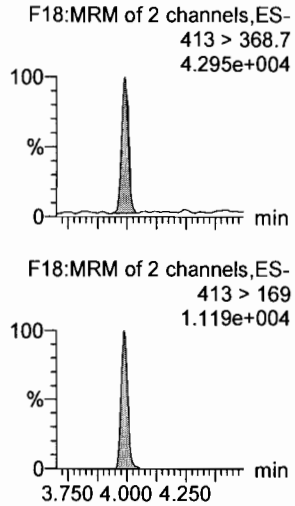
Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

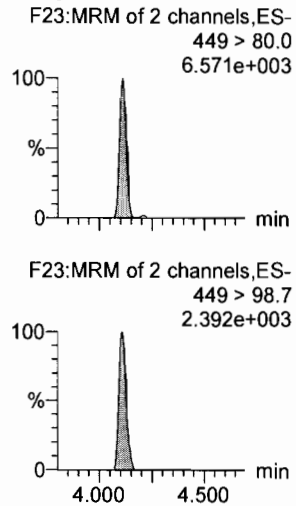
6:2 FTS



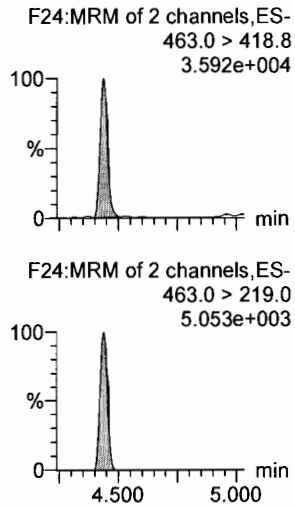
L-PFOA



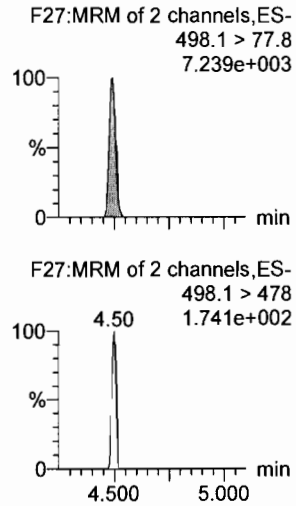
PFHpS



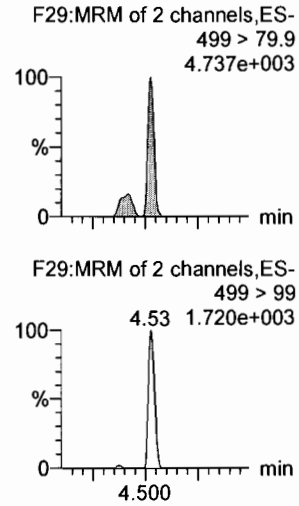
PFNA



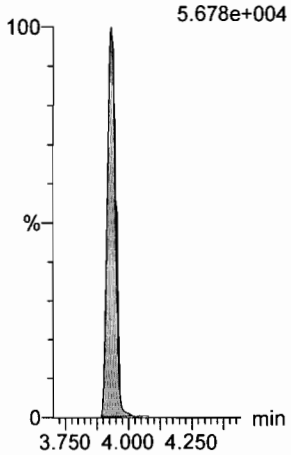
PFOSA



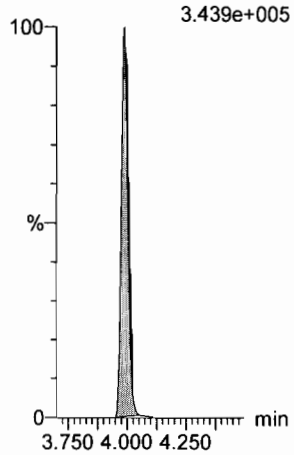
L-PFOS



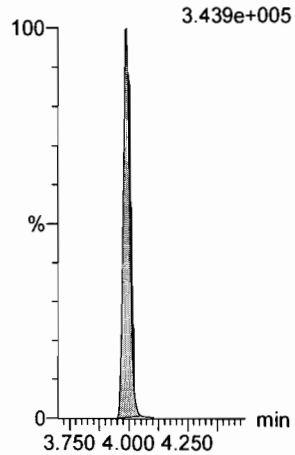
13C2-6:2 FTS



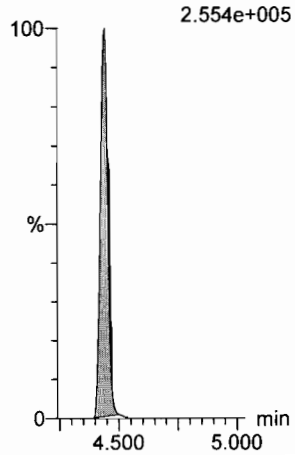
13C2-PFOA



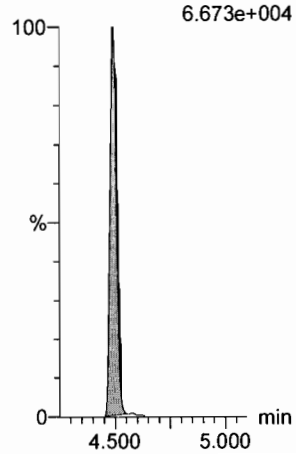
13C2-PFOA



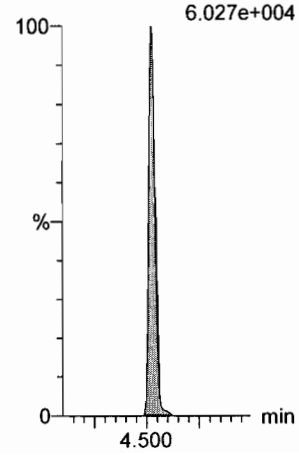
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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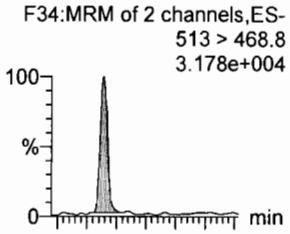
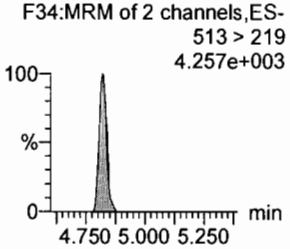
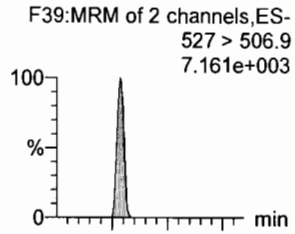
Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

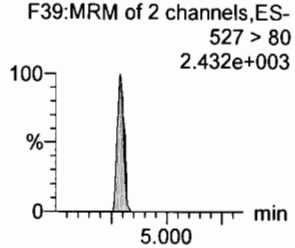
PFDA



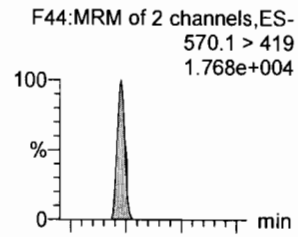


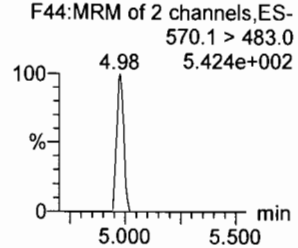
8:2 FTS



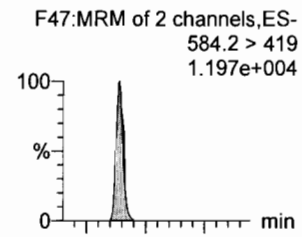


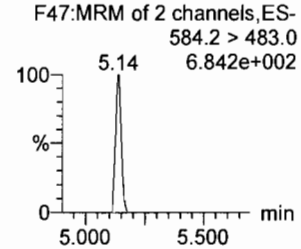
N-MeFOSAA



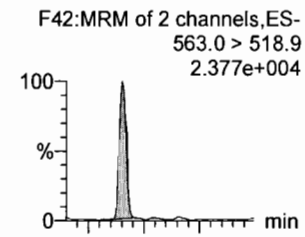


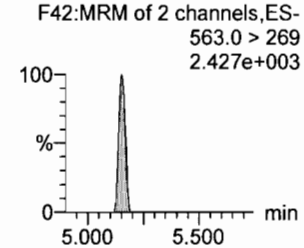
N-EtFOSAA



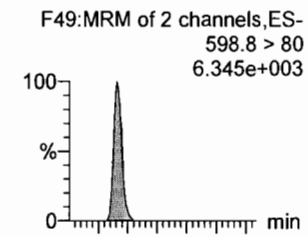


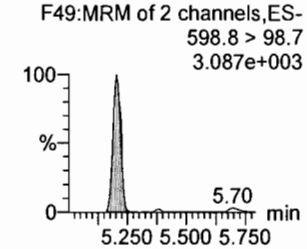
PFUdA



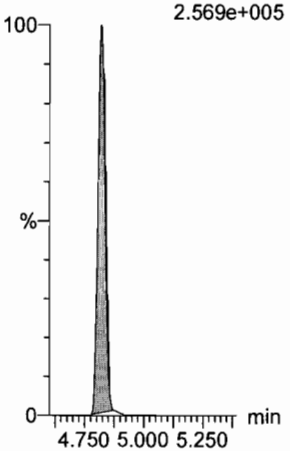


PFDS

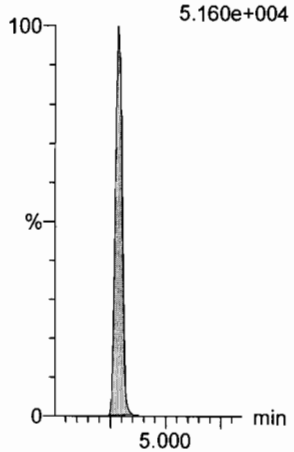




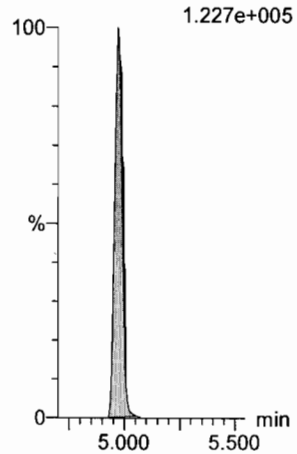
13C2-PFDA



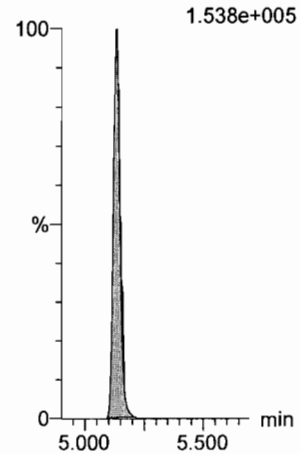
13C2-8:2 FTS



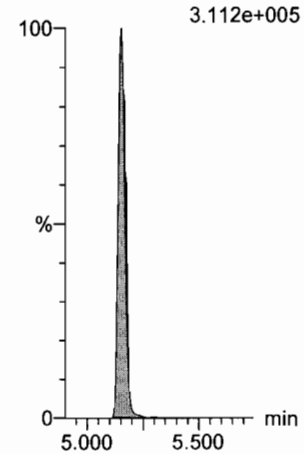
d3-N-MeFOSAA



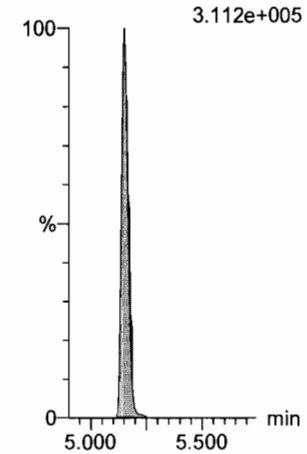
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



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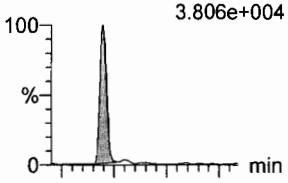
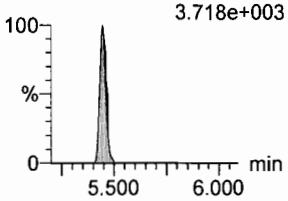
Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

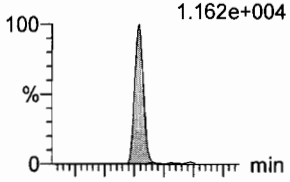
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
3.806e+004



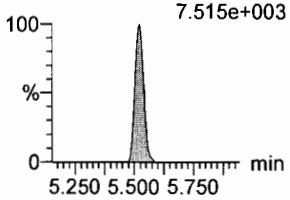
F50:MRM of 2 channels,ES-
612.9 > 318.8
3.718e+003



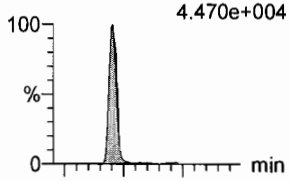
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
1.162e+004



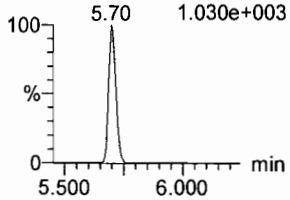
F33:MRM of 2 channels,ES-
512.1 > 219
7.515e+003



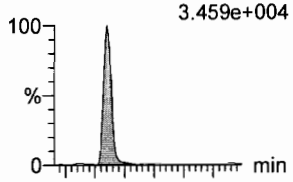
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
4.470e+004



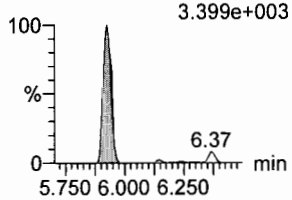
F56:MRM of 2 channels,ES-
662.9 > 319
1.030e+003



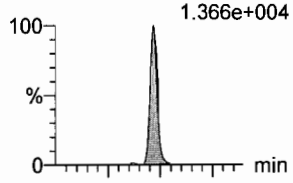
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
3.459e+004



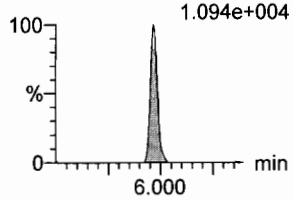
F57:MRM of 2 channels,ES-
712.9 > 369
3.399e+003



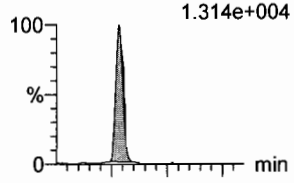
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
1.366e+004



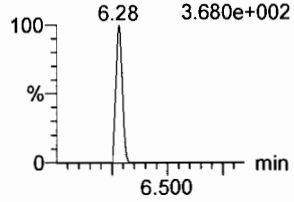
F38:MRM of 2 channels,ES-
526.1 > 219
1.094e+004



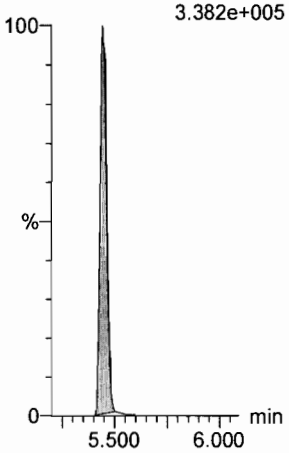
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.314e+004



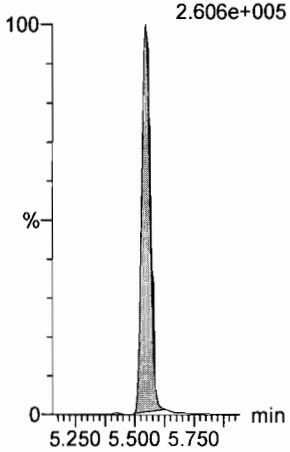
F59:MRM of 2 channels,ES-
813.1 > 219
3.680e+002



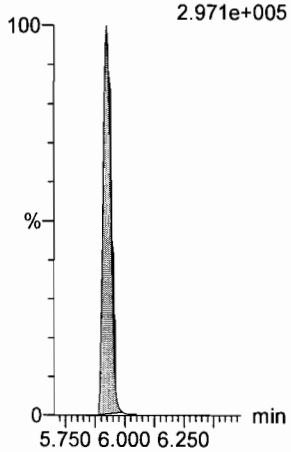
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
3.382e+005



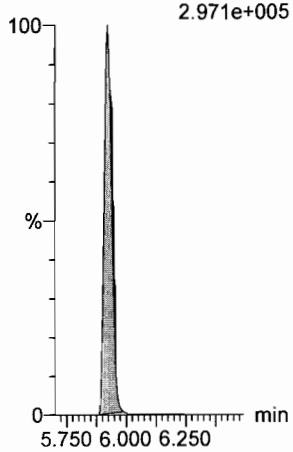
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.606e+005



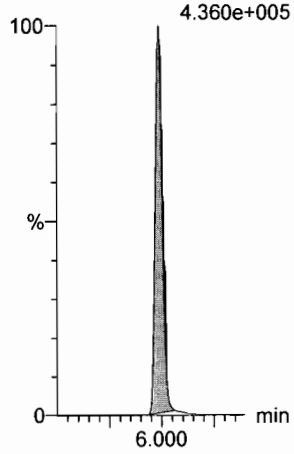
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.971e+005



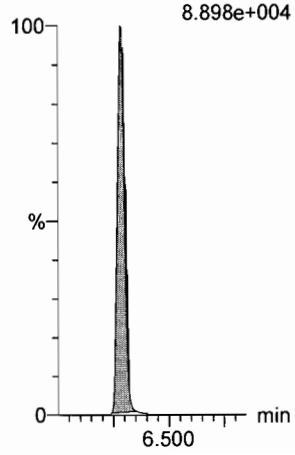
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.971e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.360e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
8.898e+004

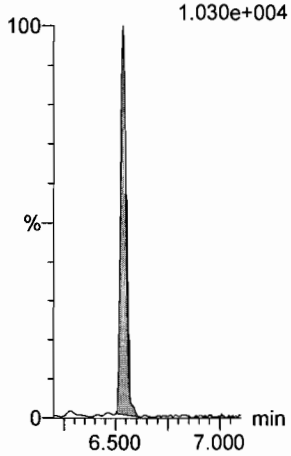


Dataset: U:\Q4.PRO\results\171101M2\171101M2-69.qld

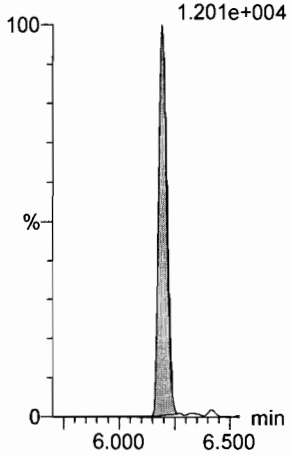
Last Altered: Thursday, November 02, 2017 16:03:46 Pacific Daylight Time
Printed: Thursday, November 02, 2017 16:04:24 Pacific Daylight Time

Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

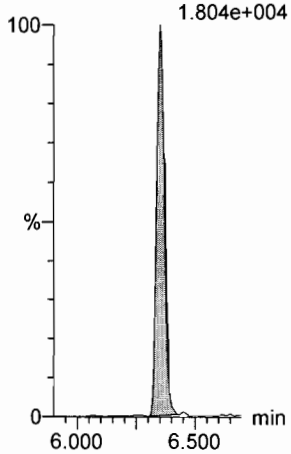
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
1.030e+004



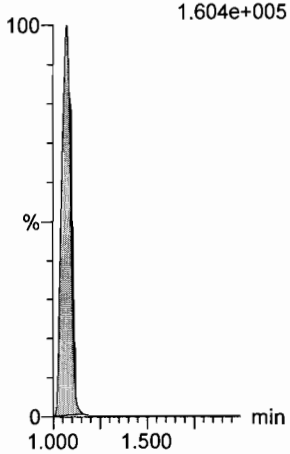
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
1.201e+004



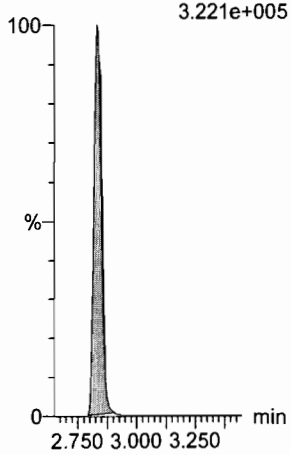
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
1.804e+004



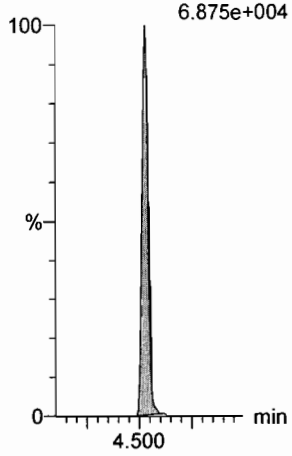
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.604e+005



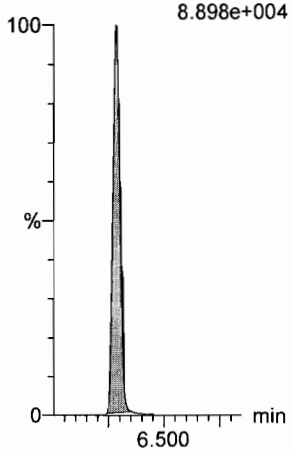
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.221e+005



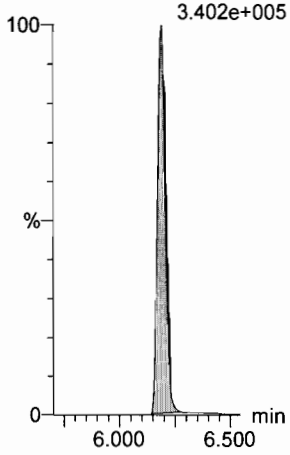
13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.875e+004



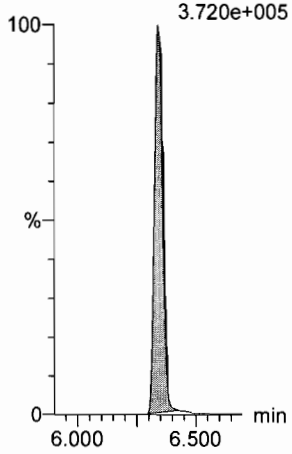
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
8.898e+004



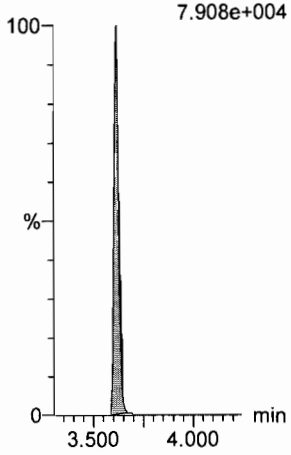
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.402e+005



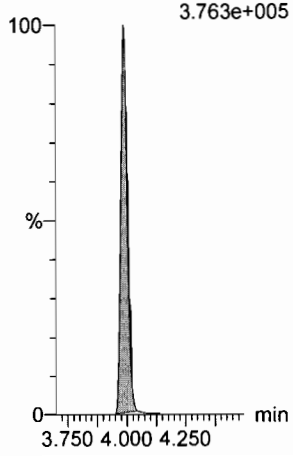
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.720e+005



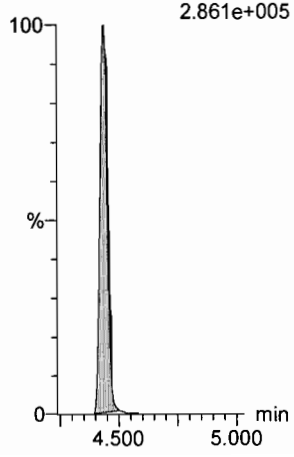
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
7.908e+004



13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
3.763e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.861e+005



Dataset: U:\Q4.PRO\results\171101M2\171101M2-69.qld

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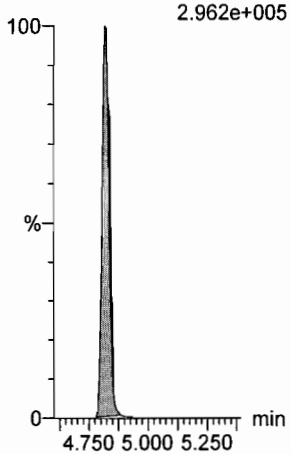
Name: 171101M2_69, Date: 02-Nov-2017, Time: 03:28:52, ID: ST171101M2-13 PFC CS0 17J2707, Description: PFC CS0 17J2707

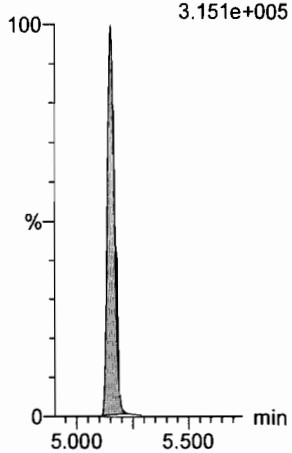
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.962e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
3.151e+005



INITIAL CALIBRATION (ICAL)

INCLUDING ASSOCIATED

INITIAL CALIBRATION VERIFICATION (ICV) AND INSTRUMENT BLANK (IB)

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

am 11/2/17 ✓ JA. 11/02/2017

Compound name: PFBA
Correlation coefficient: r = 0.999968, r^2 = 0.999935
Calibration curve: 1.22977 * x + 0.0313741
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	1.09	215.648	7358.991	0.366	0.3	8.9	NO	1.000	NO	bb
2	2	171101M2_3	Standard	0.500	1.10	359.541	7212.922	0.623	0.5	-3.8	NO	1.000	NO	MM
3	3	171101M2_4	Standard	1.000	1.10	772.965	7153.273	1.351	1.1	7.3	NO	1.000	NO	bb
4	4	171101M2_5	Standard	2.000	1.10	1402.427	6954.755	2.521	2.0	1.2	NO	1.000	NO	bb
5	5	171101M2_6	Standard	5.000	1.09	3396.118	7127.577	5.956	4.8	-3.6	NO	1.000	NO	bb
6	6	171101M2_7	Standard	10.000	1.09	7294.725	7366.167	12.379	10.0	0.4	NO	1.000	NO	bb
7	7	171101M2_8	Standard	50.000	1.09	35488.578	7271.000	61.010	49.6	-0.8	NO	1.000	NO	bb
8	8	171101M2_9	Standard	100.000	1.09	70266.898	7089.474	123.893	100.7	0.7	NO	1.000	NO	bb
9	9	171101M2_10	Standard	250.000	1.09	168039.828	6838.685	307.149	249.7	-0.1	NO	1.000	NO	bb

Compound name: PFPeA
Correlation coefficient: r = 0.999964, r^2 = 0.999929
Calibration curve: 1.12781 * x + 0.0681555
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	2.05	217.562	7901.117	0.344	0.2	-2.1	NO	1.000	NO	MM
2	2	171101M2_3	Standard	0.500	2.05	394.685	8012.164	0.616	0.5	-2.9	NO	1.000	NO	bb
3	3	171101M2_4	Standard	1.000	2.05	737.155	7712.271	1.195	1.0	-0.1	NO	1.000	NO	bb
4	4	171101M2_5	Standard	2.000	2.05	1498.782	7743.277	2.419	2.1	4.2	NO	1.000	NO	bb
5	5	171101M2_6	Standard	5.000	2.05	3620.750	7996.149	5.660	5.0	-0.8	NO	1.000	NO	bb
6	6	171101M2_7	Standard	10.000	2.05	7319.360	8044.281	11.374	10.0	0.2	NO	1.000	NO	bb
7	7	171101M2_8	Standard	50.000	2.05	33989.109	7373.366	57.621	51.0	2.1	NO	1.000	NO	bb
8	8	171101M2_9	Standard	100.000	2.05	69308.148	7701.083	112.497	99.7	-0.3	NO	1.000	NO	bb
9	9	171101M2_10	Standard	250.000	2.05	163579.891	7272.600	281.158	249.2	-0.3	NO	1.000	NO	bb

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Compound name: PFBS
Correlation coefficient: r = 0.998104, r^2 = 0.996212
Calibration curve: 2.42556 * x + 0.0902073
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	2.34	45.641	880.134	0.648	0.2	-8.0	NO	0.996	NO	MM
2	2	171101M2_3	Standard	0.500	2.34	99.235	928.758	1.336	0.5	2.7	NO	0.996	NO	bb
3	3	171101M2_4	Standard	1.000	2.34	188.675	934.402	2.524	1.0	0.3	NO	0.996	NO	bb
4	4	171101M2_5	Standard	2.000	2.34	348.607	893.568	4.877	2.0	-1.3	NO	0.996	NO	bb
5	5	171101M2_6	Standard	5.000	2.35	888.339	955.210	11.625	4.8	-4.9	NO	0.996	NO	bb
6	6	171101M2_7	Standard	10.000	2.35	1972.984	842.440	29.275	12.0	20.3	NO	0.996	NO	bb
7	7	171101M2_8	Standard	50.000	2.34	7889.694	941.818	104.714	43.1	-13.7	NO	0.996	NO	bb
8	8	171101M2_9	Standard	100.000	2.35	16048.832	793.135	252.933	104.2	4.2	NO	0.996	NO	bb
9	9	171101M2_10	Standard	250.000	2.34	38191.289	784.428	608.585	250.9	0.3	NO	0.996	NO	bb

Compound name: PFHxA
Correlation coefficient: r = 0.999785, r^2 = 0.999570
Calibration curve: 1.63528 * x + 0.0887833
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	2.84	283.101	3311.068	0.428	0.2	-17.1	NO	1.000	NO	bb
2	2	171101M2_3	Standard	0.500	2.84	555.890	2990.644	0.929	0.5	2.8	NO	1.000	NO	bb
3	3	171101M2_4	Standard	1.000	2.84	1082.053	3284.426	1.647	1.0	-4.7	NO	1.000	NO	bb
4	4	171101M2_5	Standard	2.000	2.84	1973.068	2737.761	3.603	2.1	7.5	NO	1.000	NO	bb
5	5	171101M2_6	Standard	5.000	2.84	5147.604	2963.177	8.686	5.3	5.1	NO	1.000	NO	bb
6	6	171101M2_7	Standard	10.000	2.84	10496.438	3083.859	17.018	10.4	3.5	NO	1.000	NO	bb
7	7	171101M2_8	Standard	50.000	2.84	49840.168	2912.062	85.575	52.3	4.6	NO	1.000	NO	bb
8	8	171101M2_9	Standard	100.000	2.84	96821.727	2982.061	162.340	99.2	-0.8	NO	1.000	NO	bb
9	9	171101M2_10	Standard	250.000	2.84	222732.031	2747.428	405.346	247.8	-0.9	NO	1.000	NO	bb

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Compound name: PFHpA
Correlation coefficient: r = 0.999098, r^2 = 0.998197
Calibration curve: 1.49748 * x + 0.0952765
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	3.46	235.105	7453.529	0.394	0.2	-20.1	NO	0.998	NO	bb
2	2	171101M2_3	Standard	0.500	3.46	492.266	7482.749	0.822	0.5	-2.9	NO	0.998	NO	bb
3	3	171101M2_4	Standard	1.000	3.46	918.455	7180.527	1.599	1.0	0.4	NO	0.998	NO	MM
4	4	171101M2_5	Standard	2.000	3.46	1819.608	6706.432	3.392	2.2	10.1	NO	0.998	NO	bb
5	5	171101M2_6	Standard	5.000	3.46	4339.015	6759.738	8.024	5.3	5.9	NO	0.998	NO	bb
6	6	171101M2_7	Standard	10.000	3.46	8686.323	6924.742	15.680	10.4	4.1	NO	0.998	NO	bb
7	7	171101M2_8	Standard	50.000	3.46	41856.465	7082.820	73.870	49.3	-1.5	NO	0.998	NO	bb
8	8	171101M2_9	Standard	100.000	3.46	84199.664	6574.111	160.097	106.8	6.8	NO	0.998	NO	bb
9	9	171101M2_10	Standard	250.000	3.46	197918.938	6795.731	364.050	243.0	-2.8	NO	0.998	NO	bb

Compound name: L-PFHxS
Correlation coefficient: r = 0.999318, r^2 = 0.998637
Calibration curve: 2.30504 * x + 0.102224
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	3.62	45.356	812.666	0.698	0.3	3.3	NO	0.999	NO	MM
2	2	171101M2_3	Standard	0.500	3.62	71.679	769.792	1.164	0.5	-7.9	NO	0.999	NO	MM
3	3	171101M2_4	Standard	1.000	3.61	144.742	761.149	2.377	1.0	-1.3	NO	0.999	NO	MM
4	4	171101M2_5	Standard	2.000	3.62	315.534	820.212	4.809	2.0	2.1	NO	0.999	NO	MM
5	5	171101M2_6	Standard	5.000	3.62	694.048	754.554	11.498	4.9	-1.1	NO	0.999	NO	MM
6	6	171101M2_7	Standard	10.000	3.62	1527.375	805.906	23.690	10.2	2.3	NO	0.999	NO	MM
7	7	171101M2_8	Standard	50.000	3.62	7364.397	744.188	123.699	53.6	7.2	NO	0.999	NO	MM
8	8	171101M2_9	Standard	100.000	3.62	13382.410	765.613	218.492	94.7	-5.3	NO	0.999	NO	MM
9	9	171101M2_10	Standard	250.000	3.62	35114.230	757.123	579.731	251.5	0.6	NO	0.999	NO	MM

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Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.996052
Calibration curve: -0.00280351 * x^2 + 1.0671 * x + 0.158468
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	3.94	69.946	2233.981	0.391	0.2	-12.6	NO	0.996	NO	bb
2	2	171101M2_3	Standard	0.500	3.94	112.641	1797.167	0.783	0.6	17.3	NO	0.996	NO	bb
3	3	171101M2_4	Standard	1.000	3.93	249.175	2305.031	1.351	1.1	12.1	NO	0.996	NO	bb
4	4	171101M2_5	Standard	2.000	3.94	349.922	2485.198	1.760	1.5	-24.7	NO	0.996	NO	bb
5	5	171101M2_6	Standard	5.000	3.93	905.944	1914.018	5.917	5.5	9.5	NO	0.996	NO	bb
6	6	171101M2_7	Standard	10.000	3.94	2104.211	2531.245	10.391	9.8	-1.6	NO	0.996	NO	bb
7	7	171101M2_8	Standard	50.000	3.93	9273.787	2492.697	46.505	50.0	-0.0	NO	0.996	NO	bb
8	8	171101M2_9	Standard	100.000	3.94	18342.547	3081.021	74.417	91.7	-8.3	NO	0.996	NO	bbX
9	9	171101M2_10	Standard	250.000	3.94	43339.793	4190.109	129.292			NO	0.996	NO	bbXI

Compound name: L-PFOA
Correlation coefficient: r = 0.995810, r^2 = 0.991637
Calibration curve: 0.981904 * x + 0.300781
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	3.99	491.246	9924.695	0.619	0.3	29.5	NO	0.992	NO	MM
2	2	171101M2_3	Standard	0.500	3.99	588.715	8558.803	0.860	0.6	13.9	NO	0.992	NO	MM
3	3	171101M2_4	Standard	1.000	3.99	1288.403	10281.591	1.566	1.3	28.9	NO	0.992	NO	MM
4	4	171101M2_5	Standard	2.000	3.99	1879.034	8981.246	2.615	2.4	17.9	NO	0.992	NO	MM
5	5	171101M2_6	Standard	5.000	3.99	4018.750	9210.015	5.454	5.2	5.0	NO	0.992	NO	bb
6	6	171101M2_7	Standard	10.000	3.99	9295.116	10212.730	11.377	11.3	12.8	NO	0.992	NO	bb
7	7	171101M2_8	Standard	50.000	3.99	45452.617	10164.519	55.896	56.6	13.2	NO	0.992	NO	bb
8	8	171101M2_9	Standard	100.000	3.99	80985.016	9495.746	106.607	108.3	8.3	NO	0.992	NO	bb
9	9	171101M2_10	Standard	250.000	3.99	178648.516	9756.466	228.885	232.8	-6.9	NO	0.992	NO	bb

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Compound name: PFHpS
Coefficient of Determination: R^2 = 0.998760
Calibration curve: -2.84754e-005 * x^2 + 0.213443 * x + 0.0290409
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.11	21.668	9924.695	0.027			NO	0.999	NO	MMXI
2	2	171101M2_3	Standard	0.500	4.11	82.882	8558.803	0.121	0.4	-13.8	NO	0.999	NO	bb
3	3	171101M2_4	Standard	1.000	4.11	185.916	10281.591	0.226	0.9	-7.7	NO	0.999	NO	bb
4	4	171101M2_5	Standard	2.000	4.11	376.726	8981.246	0.524	2.3	16.1	NO	0.999	NO	bb
5	5	171101M2_6	Standard	5.000	4.11	900.236	9210.015	1.222	5.6	11.8	NO	0.999	NO	bb
6	6	171101M2_7	Standard	10.000	4.11	1708.709	10212.730	2.091	9.7	-3.3	NO	0.999	NO	bb
7	7	171101M2_8	Standard	50.000	4.11	8092.152	10164.519	9.951	46.8	-6.4	NO	0.999	NO	bb
8	8	171101M2_9	Standard	100.000	4.11	16588.104	9495.746	21.836	103.6	3.6	NO	0.999	NO	bb
9	9	171101M2_10	Standard	250.000	4.11	40154.844	9756.466	51.446	249.2	-0.3	NO	0.999	NO	bb

Compound name: PFNA
Correlation coefficient: r = 0.999483, r^2 = 0.998966
Calibration curve: 1.46555 * x + -0.059688
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.44	297.139	10337.474	0.359	0.3	14.4	NO	0.999	NO	bb
2	2	171101M2_3	Standard	0.500	4.44	387.050	8806.240	0.549	0.4	-16.9	NO	0.999	NO	bb
3	3	171101M2_4	Standard	1.000	4.44	1108.416	9079.757	1.526	1.1	8.2	NO	0.999	NO	bb
4	4	171101M2_5	Standard	2.000	4.44	2378.673	10406.848	2.857	2.0	-0.5	NO	0.999	NO	bb
5	5	171101M2_6	Standard	5.000	4.44	4774.755	7856.432	7.597	5.2	4.5	NO	0.999	NO	bb
6	6	171101M2_7	Standard	10.000	4.44	10263.493	9879.441	12.986	8.9	-11.0	NO	0.999	NO	bb
7	7	171101M2_8	Standard	50.000	4.44	46562.602	8131.582	71.577	48.9	-2.2	NO	0.999	NO	bb
8	8	171101M2_9	Standard	100.000	4.44	88467.945	7215.575	153.259	104.6	4.6	NO	0.999	NO	bb
9	9	171101M2_10	Standard	250.000	4.44	228028.141	7864.049	362.453	247.4	-1.1	NO	0.999	NO	bb

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Compound name: PFOSA
Correlation coefficient: r = 0.996287, r^2 = 0.992589
Calibration curve: 1.15082 * x + -0.0195773
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.50	67.045	2488.105	0.337	0.3	23.9	NO	0.993	NO	bb
2	2	171101M2_3	Standard	0.500	4.50	100.640	2173.261	0.579	0.5	4.0	NO	0.993	NO	bb
3	3	171101M2_4	Standard	1.000	4.50	236.407	2316.429	1.276	1.1	12.6	NO	0.993	NO	bb
4	4	171101M2_5	Standard	2.000	4.50	440.513	2460.769	2.238	2.0	-1.9	NO	0.993	NO	bb
5	5	171101M2_6	Standard	5.000	4.50	1042.099	2385.449	5.461	4.8	-4.8	NO	0.993	NO	bb
6	6	171101M2_7	Standard	10.000	4.50	1883.761	2539.556	9.272	8.1	-19.3	NO	0.993	NO	bb
7	7	171101M2_8	Standard	50.000	4.50	9507.035	2371.964	50.101	43.6	-12.9	NO	0.993	NO	bb
8	8	171101M2_9	Standard	100.000	4.50	19358.357	2292.883	105.535	91.7	-8.3	NO	0.993	NO	bb
9	9	171101M2_10	Standard	250.000	4.50	47344.102	1928.119	306.932	266.7	6.7	NO	0.993	NO	bb

Compound name: L-PFOS
Correlation coefficient: r = 0.999036, r^2 = 0.998072
Calibration curve: 1.04044 * x + 0.0500723
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.53	42.358	2146.935	0.247	0.2	-24.4	NO	0.998	NO	MM
2	2	171101M2_3	Standard	0.500	4.53	87.258	2165.581	0.504	0.4	-12.8	NO	0.998	NO	MM
3	3	171101M2_4	Standard	1.000	4.53	200.850	1803.802	1.392	1.3	29.0	NO	0.998	NO	MM
4	4	171101M2_5	Standard	2.000	4.53	402.014	2292.835	2.192	2.1	2.9	NO	0.998	NO	MM
5	5	171101M2_6	Standard	5.000	4.53	924.084	2011.666	5.742	5.5	9.4	NO	0.998	NO	MM
6	6	171101M2_7	Standard	10.000	4.53	1944.990	2021.868	12.025	11.5	15.1	NO	0.998	NO	MM
7	7	171101M2_8	Standard	50.000	4.53	9620.487	2196.415	54.751	52.6	5.1	NO	0.998	NO	MM
8	8	171101M2_9	Standard	100.000	4.53	17063.039	2161.719	98.666	94.8	-5.2	NO	0.998	NO	MM
9	9	171101M2_10	Standard	250.000	4.53	44056.695	2113.088	260.618	250.4	0.2	NO	0.998	NO	MM

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Compound name: PFDA
Coefficient of Determination: R^2 = 0.998376
Calibration curve: -0.000660412 * x^2 + 1.49317 * x + 0.028193
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.82	337.730	9736.471	0.434	0.3	8.6	NO	0.998	NO	MM
2	2	171101M2_3	Standard	0.500	4.82	534.716	8842.695	0.756	0.5	-2.5	NO	0.998	NO	MM
3	3	171101M2_4	Standard	1.000	4.83	1171.032	10110.890	1.448	1.0	-4.9	NO	0.998	NO	bb
4	4	171101M2_5	Standard	2.000	4.83	2140.727	8849.625	3.024	2.0	0.4	NO	0.998	NO	bb
5	5	171101M2_6	Standard	5.000	4.82	4647.323	7993.759	7.267	4.9	-2.8	NO	0.998	NO	bb
6	6	171101M2_7	Standard	10.000	4.83	11079.882	8878.114	15.600	10.5	4.8	NO	0.998	NO	bb
7	7	171101M2_8	Standard	50.000	4.83	47060.063	8751.178	67.220	45.9	-8.1	NO	0.998	NO	bb
8	8	171101M2_9	Standard	100.000	4.83	99515.031	8304.557	149.790	105.2	5.2	NO	0.998	NO	bb
9	9	171101M2_10	Standard	250.000	4.83	218713.156	8275.404	330.366	248.6	-0.6	NO	0.998	NO	bb

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.998160
Calibration curve: -0.0153013 * x^2 + 1.93592 * x + -0.069515
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.79	64.120	1683.321	0.476	0.3	13.0	NO	0.998	NO	bb
2	2	171101M2_3	Standard	0.500	4.79	158.581	2156.812	0.919	0.5	2.5	NO	0.998	NO	bb
3	3	171101M2_4	Standard	1.000	4.79	281.879	2011.899	1.751	0.9	-5.2	NO	0.998	NO	bb
4	4	171101M2_5	Standard	2.000	4.80	408.962	1588.127	3.219	1.7	-13.9	NO	0.998	NO	bb
5	5	171101M2_6	Standard	5.000	4.79	1334.120	1808.361	9.222	5.0	-0.1	NO	0.998	NO	bb
6	6	171101M2_7	Standard	10.000	4.79	2340.164	1589.212	18.407	10.4	4.0	NO	0.998	NO	bb
7	7	171101M2_8	Standard	50.000	4.80	10954.866	2346.127	58.367	49.7	-0.5	NO	0.998	NO	bb
8	8	171101M2_9	Standard	100.000	4.79	23189.125	2744.616	105.612			NO	0.998	NO	bbXI
9	9	171101M2_10	Standard	250.000	4.79	56102.570	3972.023	176.555			NO	0.998	NO	bbXI

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Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.999192
Calibration curve: -0.000561332 * x^2 + 1.50109 * x + 0.431366
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	4.99	105.507	4027.428	0.327			NO	0.999	NO	bbXI
2	2	171101M2_3	Standard	0.500	4.98	355.229	3659.645	1.213	0.5	4.2	NO	0.999	NO	bb
3	3	171101M2_4	Standard	1.000	4.98	611.470	4488.732	1.703	0.8	-15.3	NO	0.999	NO	bb
4	4	171101M2_5	Standard	2.000	4.98	1115.236	4299.515	3.242	1.9	-6.3	NO	0.999	NO	bb
5	5	171101M2_6	Standard	5.000	4.98	2625.633	3924.551	8.363	5.3	5.9	NO	0.999	NO	bb
6	6	171101M2_7	Standard	10.000	4.98	4803.974	3427.515	17.520	11.4	14.3	NO	0.999	NO	bb
7	7	171101M2_8	Standard	50.000	4.99	24163.596	4155.820	72.680	49.0	-1.9	NO	0.999	NO	bb
8	8	171101M2_9	Standard	100.000	4.98	47519.473	4144.976	143.304	98.8	-1.2	NO	0.999	NO	bb
9	9	171101M2_10	Standard	250.000	4.99	103199.492	3777.897	341.458	250.7	0.3	NO	0.999	NO	bb

Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.998931
Calibration curve: -0.000660338 * x^2 + 1.30312 * x + -0.0210088
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	5.14	117.693	4405.323	0.334	0.3	9.0	NO	0.999	NO	bb
2	2	171101M2_3	Standard	0.500	5.14	216.169	4738.349	0.570	0.5	-9.2	NO	0.999	NO	bb
3	3	171101M2_4	Standard	1.000	5.14	473.884	4485.625	1.321	1.0	3.0	NO	0.999	NO	bb
4	4	171101M2_5	Standard	2.000	5.14	1062.468	5097.849	2.605	2.0	0.9	NO	0.999	NO	bb
5	5	171101M2_6	Standard	5.000	5.14	1909.984	4541.219	5.257	4.1	-18.8	NO	0.999	NO	bb
6	6	171101M2_7	Standard	10.000	5.14	4323.709	3794.698	14.243	11.0	10.1	NO	0.999	NO	bb
7	7	171101M2_8	Standard	50.000	5.15	20479.258	4159.838	61.539	48.4	-3.1	NO	0.999	NO	bb
8	8	171101M2_9	Standard	100.000	5.14	43221.086	4282.829	126.146	102.1	2.1	NO	0.999	NO	bb
9	9	171101M2_10	Standard	250.000	5.14	86826.000	3823.388	283.865	249.4	-0.3	NO	0.999	NO	bb

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Compound name: PFUdA
Coefficient of Determination: R^2 = 0.998481
Calibration curve: -0.000659603 * x^2 + 1.2001 * x + -0.0749649
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	5.16	251.105	10665.747	0.294	0.3	23.1	NO	0.998	NO	MM
2	2	171101M2_3	Standard	0.500	5.16	377.136	9839.785	0.479	0.5	-7.6	NO	0.998	NO	bb
3	3	171101M2_4	Standard	1.000	5.16	1197.582	12652.625	1.183	1.0	4.9	NO	0.998	NO	bb
4	4	171101M2_5	Standard	2.000	5.16	1776.478	10433.171	2.128	1.8	-8.1	NO	0.998	NO	bb
5	5	171101M2_6	Standard	5.000	5.16	4977.814	11579.544	5.373	4.6	-9.0	NO	0.998	NO	bb
6	6	171101M2_7	Standard	10.000	5.16	8845.094	10166.225	10.876	9.2	-8.3	NO	0.998	NO	bb
7	7	171101M2_8	Standard	50.000	5.16	50934.191	10137.037	62.807	54.0	8.0	NO	0.998	NO	bb
8	8	171101M2_9	Standard	100.000	5.16	88379.758	10048.803	109.938	96.8	-3.2	NO	0.998	NO	bb
9	9	171101M2_10	Standard	250.000	5.16	221105.656	10661.635	259.230	250.6	0.2	NO	0.998	NO	bb

Compound name: PFDS
Coefficient of Determination: R^2 = 0.999321
Calibration curve: -6.34532e-005 * x^2 + 0.258511 * x + -0.0175711
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	5.21	54.347	10665.747	0.064	0.3	25.8	NO	0.999	NO	MM
2	2	171101M2_3	Standard	0.500	5.21	77.235	9839.785	0.098	0.4	-10.5	NO	0.999	NO	bb
3	3	171101M2_4	Standard	1.000	5.21	228.261	12652.625	0.226	0.9	-5.9	NO	0.999	NO	bb
4	4	171101M2_5	Standard	2.000	5.21	405.873	10433.171	0.486	1.9	-2.5	NO	0.999	NO	bb
5	5	171101M2_6	Standard	5.000	5.21	1049.839	11579.544	1.133	4.5	-10.9	NO	0.999	NO	bb
6	6	171101M2_7	Standard	10.000	5.21	2146.080	10166.225	2.639	10.3	3.0	NO	0.999	NO	bb
7	7	171101M2_8	Standard	50.000	5.21	10482.104	10137.037	12.926	50.7	1.4	NO	0.999	NO	bb
8	8	171101M2_9	Standard	100.000	5.21	20186.533	10048.803	25.111	99.6	-0.4	NO	0.999	NO	bb
9	9	171101M2_10	Standard	250.000	5.21	43408.063	10661.635	50.893	207.5	-17.0	NO	0.999	NO	bbX

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Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998189
Calibration curve: -8.05865e-005 * x^2 + 1.31949 * x + -0.00260412
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	5.45	316.104	10914.335	0.362	0.3	10.5	NO	0.998	NO	bd
2	2	171101M2_3	Standard	0.500	5.45	486.608	11091.776	0.548	0.4	-16.5	NO	0.998	NO	bb
3	3	171101M2_4	Standard	1.000	5.45	1128.847	9126.209	1.546	1.2	17.4	NO	0.998	NO	bd
4	4	171101M2_5	Standard	2.000	5.45	2338.733	13783.913	2.121	1.6	-19.5	NO	0.998	NO	bd
5	5	171101M2_6	Standard	5.000	5.45	5939.950	10323.613	7.192	5.5	9.1	NO	0.998	NO	bd
6	6	171101M2_7	Standard	10.000	5.45	11950.982	11864.402	12.591	9.6	-4.5	NO	0.998	NO	MM
7	7	171101M2_8	Standard	50.000	5.45	61767.680	10885.293	70.930	53.9	7.9	NO	0.998	NO	bb
8	8	171101M2_9	Standard	100.000	5.45	94656.961	9478.955	124.825	95.2	-4.8	NO	0.998	NO	bb
9	9	171101M2_10	Standard	250.000	5.45	282799.063	10832.117	326.343	251.2	0.5	NO	0.998	NO	bb

Compound name: N-MeFOSA
Correlation coefficient: r = 0.998437, r^2 = 0.996876
Calibration curve: 1.11234 * x + 0.50667
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	1.250	5.52	109.210	10920.747	1.500	0.9	-28.6	NO	0.997	NO	bb
2	2	171101M2_3	Standard	2.500	5.52	242.726	11069.925	3.289	2.5	0.1	NO	0.997	NO	bb
3	3	171101M2_4	Standard	5.000	5.52	524.042	11180.273	7.031	5.9	17.3	NO	0.997	NO	bb
4	4	171101M2_5	Standard	10.000	5.52	1008.225	11414.953	13.249	11.5	14.6	NO	0.997	NO	MM
5	5	171101M2_6	Standard	25.000	5.52	2311.649	10433.328	33.235	29.4	17.7	NO	0.997	NO	bb
6	6	171101M2_7	Standard	50.000	5.52	4527.763	11336.587	59.909	53.4	6.8	NO	0.997	NO	bb
7	7	171101M2_8	Standard	250.000	5.52	21466.703	10309.881	312.322	280.3	12.1	NO	0.997	NO	bb
8	8	171101M2_9	Standard	500.000	5.52	41315.805	11194.595	553.604	497.2	-0.6	NO	0.997	NO	bb
9	9	171101M2_10	Standard	1250.000	5.52	95056.602	10566.709	1349.379	1212.6	-3.0	NO	0.997	NO	bb

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Compound name: PFTrDA
Correlation coefficient: r = 0.999167, r^2 = 0.998334
Calibration curve: 1.22636 * x + 0.338031
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: Null, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	5.71	305.739	10914.335	0.350	0.0	-96.0	NO	0.998	NO	MMX
2	2	171101M2_3	Standard	0.500	5.71	813.531	11091.776	0.917	0.5	-5.6	NO	0.998	NO	MM
3	3	171101M2_4	Standard	1.000	5.71	1273.829	9126.209	1.745	1.1	14.7	NO	0.998	NO	MM
4	4	171101M2_5	Standard	2.000	5.71	2276.295	13783.913	2.064	1.4	-29.6	NO	0.998	NO	MM
5	5	171101M2_6	Standard	5.000	5.71	6855.382	10323.613	8.301	6.5	29.9	NO	0.998	NO	MM
6	6	171101M2_7	Standard	10.000	5.71	11065.108	11864.402	11.658	9.2	-7.7	NO	0.998	NO	MM
7	7	171101M2_8	Standard	50.000	5.71	53718.750	10885.293	61.687	50.0	0.1	NO	0.998	NO	MM
8	8	171101M2_9	Standard	100.000	5.71	147571.688	9478.955	194.604	158.4	58.4	NO	0.998	NO	MMX
9	9	171101M2_10	Standard	250.000	5.71	274248.781	10832.117	316.476	257.8	3.1	NO	0.998	NO	MMX

Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999606
Calibration curve: 0.000220373 * x^2 + 1.26264 * x + 0.112888
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	5.93	340.652	8920.923	0.477	0.3	15.4	NO	1.000	NO	bb
2	2	171101M2_3	Standard	0.500	5.93	535.872	11082.541	0.604	0.4	-22.1	NO	1.000	NO	bb
3	3	171101M2_4	Standard	1.000	5.93	1134.874	10386.270	1.366	1.0	-0.8	NO	1.000	NO	bb
4	4	171101M2_5	Standard	2.000	5.93	2377.542	10159.116	2.925	2.2	11.3	NO	1.000	NO	bb
5	5	171101M2_6	Standard	5.000	5.93	5939.762	12309.719	6.032	4.7	-6.3	NO	1.000	NO	bb
6	6	171101M2_7	Standard	10.000	5.93	10970.291	10627.188	12.904	10.1	1.1	NO	1.000	NO	bb
7	7	171101M2_8	Standard	50.000	5.94	55328.543	10508.160	65.816	51.6	3.1	NO	1.000	NO	bb
8	8	171101M2_9	Standard	100.000	5.93	102715.789	10189.543	126.006	98.0	-2.0	NO	1.000	NO	bb
9	9	171101M2_10	Standard	250.000	5.93	210290.047	7961.406	330.171	250.5	0.2	NO	1.000	NO	db

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Compound name: N-EtFOSA
Coefficient of Determination: R^2 = 0.999948
Calibration curve: -6.29233e-005 * x^2 + 1.06447 * x + 0.0967019
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	1.250	5.97	159.313	16647.287	1.435	1.3	0.6	NO	1.000	NO	bb
2	2	171101M2_3	Standard	2.500	5.97	330.843	16850.057	2.945	2.7	7.1	NO	1.000	NO	bb
3	3	171101M2_4	Standard	5.000	5.97	577.760	17366.871	4.990	4.6	-8.0	NO	1.000	NO	bb
4	4	171101M2_5	Standard	10.000	5.97	1235.334	17528.410	10.571	9.8	-1.5	NO	1.000	NO	bb
5	5	171101M2_6	Standard	25.000	5.97	2975.490	16636.188	26.828	25.2	0.6	NO	1.000	NO	bb
6	6	171101M2_7	Standard	50.000	5.97	6182.670	17127.262	54.148	50.9	1.9	NO	1.000	NO	bb
7	7	171101M2_8	Standard	250.000	5.97	27827.354	16066.025	259.809	247.6	-1.0	NO	1.000	NO	bb
8	8	171101M2_9	Standard	500.000	5.97	54115.641	15649.029	518.712	502.1	0.4	NO	1.000	NO	bb
9	9	171101M2_10	Standard	1250.000	5.97	123553.141	15043.336	1231.972	1249.6	-0.0	NO	1.000	NO	bb

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999012
Calibration curve: -0.000221098 * x^2 + 0.680841 * x + 0.134112
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	6.29	216.798	3883.614	0.279	0.2	-14.8	NO	0.999	NO	bb
2	2	171101M2_3	Standard	0.500	6.29	351.446	3817.230	0.460	0.5	-4.2	NO	0.999	NO	bb
3	3	171101M2_4	Standard	1.000	6.29	643.403	4207.725	0.765	0.9	-7.4	NO	0.999	NO	bb
4	4	171101M2_5	Standard	2.000	6.29	1294.617	3740.619	1.730	2.3	17.3	NO	0.999	NO	bb
5	5	171101M2_6	Standard	5.000	6.29	3164.279	4431.866	3.570	5.1	1.1	NO	0.999	NO	bb
6	6	171101M2_7	Standard	10.000	6.29	7342.264	4915.364	7.469	10.8	8.1	NO	0.999	NO	bb
7	7	171101M2_8	Standard	50.000	6.29	26960.383	3877.016	34.770	51.7	3.5	NO	0.999	NO	bb
8	8	171101M2_9	Standard	100.000	6.29	40262.984	3180.304	63.301	95.8	-4.2	NO	0.999	NO	bb
9	9	171101M2_10	Standard	250.000	6.29	94703.070	3009.218	157.355	251.5	0.6	NO	0.999	NO	bb

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Compound name: PFODA
Coefficient of Determination: R^2 = 0.994227
Calibration curve: -0.000680261 * x^2 + 0.466108 * x + 0.0499317
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	0.250	6.54	112.336	3883.614	0.145	0.2	-18.7	NO	0.994	NO	MM
2	2	171101M2_3	Standard	0.500	6.54	252.139	3817.230	0.330	0.6	20.4	NO	0.994	NO	MM
3	3	171101M2_4	Standard	1.000	6.54	507.632	4207.725	0.603	1.2	18.9	NO	0.994	NO	bb
4	4	171101M2_5	Standard	2.000	6.54	821.750	3740.619	1.098	2.3	12.8	NO	0.994	NO	bb
5	5	171101M2_6	Standard	5.000	6.54	2073.425	4431.866	2.339	4.9	-1.1	NO	0.994	NO	bb
6	6	171101M2_7	Standard	10.000	6.54	5324.727	4915.364	5.416	11.7	17.1	NO	0.994	NO	bb
7	7	171101M2_8	Standard	50.000	6.54	15392.125	3877.016	19.850	45.5	-9.0	NO	0.994	NO	bb
8	8	171101M2_9	Standard	100.000	6.54	25875.396	3180.304	40.681	102.5	2.5	NO	0.994	NO	bb
9	9	171101M2_10	Standard	250.000	6.54	111844.633	3009.218	185.837			NO	0.994	NO	bbXI

Compound name: N-MeFOSE
Coefficient of Determination: R^2 = 0.999893
Calibration curve: -6.04358e-005 * x^2 + 1.09873 * x + 0.0948849
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	1.250	6.19	112.308	14317.436	1.177	1.0	-21.2	NO	1.000	NO	bb
2	2	171101M2_3	Standard	2.500	6.20	322.993	15923.317	3.043	2.7	7.3	NO	1.000	NO	bb
3	3	171101M2_4	Standard	5.000	6.20	620.621	14732.193	6.319	5.7	13.3	NO	1.000	NO	bb
4	4	171101M2_5	Standard	10.000	6.20	1211.407	16010.885	11.349	10.2	2.5	NO	1.000	NO	bb
5	5	171101M2_6	Standard	25.000	6.20	2441.666	13330.830	27.474	25.0	-0.2	NO	1.000	NO	bb
6	6	171101M2_7	Standard	50.000	6.20	5825.070	16244.414	53.788	49.0	-2.0	NO	1.000	NO	bb
7	7	171101M2_8	Standard	250.000	6.20	24859.123	13685.151	272.476	251.4	0.6	NO	1.000	NO	bb
8	8	171101M2_9	Standard	500.000	6.20	54881.879	15453.948	532.698	498.4	-0.3	NO	1.000	NO	bb
9	9	171101M2_10	Standard	1250.000	6.20	117376.344	13760.628	1279.480	1250.4	0.0	NO	1.000	NO	bb

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Compound name: N-EtFOSE
Correlation coefficient: r = 0.999010, r^2 = 0.998022
Calibration curve: 1.26218 * x + 0.389501
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	1.250	6.35	164.767	13847.230	1.785	1.1	-11.6	NO	0.998	NO	MM
2	2	171101M2_3	Standard	2.500	6.35	331.942	14566.186	3.418	2.4	-4.0	NO	0.998	NO	bb
3	3	171101M2_4	Standard	5.000	6.35	636.733	13431.374	7.111	5.3	6.5	NO	0.998	NO	bb
4	4	171101M2_5	Standard	10.000	6.35	1298.820	14023.795	13.892	10.7	7.0	NO	0.998	NO	bb
5	5	171101M2_6	Standard	25.000	6.36	2939.874	12380.260	35.620	27.9	11.6	NO	0.998	NO	bb
6	6	171101M2_7	Standard	50.000	6.35	5789.409	14568.413	59.609	46.9	-6.2	NO	0.998	NO	bb
7	7	171101M2_8	Standard	250.000	6.36	31114.338	14599.442	319.680	253.0	1.2	NO	0.998	NO	bb
8	8	171101M2_9	Standard	500.000	6.35	51910.445	13280.763	586.304	464.2	-7.2	NO	0.998	NO	bb
9	9	171101M2_10	Standard	1250.000	6.35	134487.625	12461.901	1618.785	1282.2	2.6	NO	0.998	NO	bb

Compound name: 13C3-PFBA
Response Factor: 0.88359
RRF SD: 0.0198411, Relative SD: 2.24551
Response type: Internal Std (Ref 54), 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	171101M2_2	Standard	12.500	1.09	7358.991	8142.679	11.297	12.8	2.3	NO		NO	bb
2	2	171101M2_3	Standard	12.500	1.09	7212.922	8277.161	10.893	12.3	-1.4	NO		NO	bb
3	3	171101M2_4	Standard	12.500	1.10	7153.273	8406.574	10.636	12.0	-3.7	NO		NO	bb
4	4	171101M2_5	Standard	12.500	1.10	6954.755	7954.337	10.929	12.4	-1.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	1.09	7127.577	8148.479	10.934	12.4	-1.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	1.09	7366.167	8354.898	11.021	12.5	-0.2	NO		NO	bb
7	7	171101M2_8	Standard	12.500	1.09	7271.000	7934.175	11.455	13.0	3.7	NO		NO	bb
8	8	171101M2_9	Standard	12.500	1.09	7089.474	8062.725	10.991	12.4	-0.5	NO		NO	bb
9	9	171101M2_10	Standard	12.500	1.09	6838.685	7600.219	11.248	12.7	1.8	NO		NO	bb

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Compound name: 13C3-PFPeA
Response Factor: 0.72711
RRF SD: 0.0336366, Relative SD: 4.62608
Response type: Internal Std (Ref 55), 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	171101M2_2	Standard	12.500	2.05	7901.117	11391.188	8.670	11.9	-4.6	NO		NO	bb
2	2	171101M2_3	Standard	12.500	2.05	8012.164	11378.998	8.801	12.1	-3.2	NO		NO	MM
3	3	171101M2_4	Standard	12.500	2.05	7712.271	11415.921	8.445	11.6	-7.1	NO		NO	bb
4	4	171101M2_5	Standard	12.500	2.05	7743.277	10224.924	9.466	13.0	4.2	NO		NO	bb
5	5	171101M2_6	Standard	12.500	2.05	7996.149	11052.971	9.043	12.4	-0.5	NO		NO	bb
6	6	171101M2_7	Standard	12.500	2.05	8044.281	11049.399	9.100	12.5	0.1	NO		NO	bb
7	7	171101M2_8	Standard	12.500	2.05	7373.366	10170.967	9.062	12.5	-0.3	NO		NO	bb
8	8	171101M2_9	Standard	12.500	2.05	7701.083	10206.662	9.431	13.0	3.8	NO		NO	bb
9	9	171101M2_10	Standard	12.500	2.05	7272.600	9294.536	9.781	13.5	7.6	NO		NO	MM

Compound name: 13C3-PFBS
Response Factor: 0.0828327
RRF SD: 0.00541532, Relative SD: 6.53767
Response type: Internal Std (Ref 55), 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	171101M2_2	Standard	12.500	2.34	880.134	11391.188	0.966	11.7	-6.7	NO		NO	bb
2	2	171101M2_3	Standard	12.500	2.34	928.758	11378.998	1.020	12.3	-1.5	NO		NO	bb
3	3	171101M2_4	Standard	12.500	2.34	934.402	11415.921	1.023	12.4	-1.2	NO		NO	bb
4	4	171101M2_5	Standard	12.500	2.34	893.568	10224.924	1.092	13.2	5.5	NO		NO	bb
5	5	171101M2_6	Standard	12.500	2.34	955.210	11052.971	1.080	13.0	4.3	NO		NO	bb
6	6	171101M2_7	Standard	12.500	2.34	842.440	11049.399	0.953	11.5	-8.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	2.34	941.818	10170.967	1.157	14.0	11.8	NO		NO	bb
8	8	171101M2_9	Standard	12.500	2.34	793.135	10206.662	0.971	11.7	-6.2	NO		NO	bb
9	9	171101M2_10	Standard	12.500	2.34	784.428	9294.536	1.055	12.7	1.9	NO		NO	bb

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Compound name: 13C2-PFHxA
Response Factor: 0.702837
RRF SD: 0.0303692, Relative SD: 4.32094
Response type: Internal Std (Ref 55), 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	171101M2_2	Standard	5.000	2.84	3311.068	11391.188	3.633	5.2	3.4	NO		NO	bb
2	2	171101M2_3	Standard	5.000	2.84	2990.644	11378.998	3.285	4.7	-6.5	NO		NO	bb
3	3	171101M2_4	Standard	5.000	2.84	3284.426	11415.921	3.596	5.1	2.3	NO		NO	bb
4	4	171101M2_5	Standard	5.000	2.84	2737.761	10224.924	3.347	4.8	-4.8	NO		NO	bb
5	5	171101M2_6	Standard	5.000	2.84	2963.177	11052.971	3.351	4.8	-4.6	NO		NO	bb
6	6	171101M2_7	Standard	5.000	2.84	3083.859	11049.399	3.489	5.0	-0.7	NO		NO	bb
7	7	171101M2_8	Standard	5.000	2.84	2912.062	10170.967	3.579	5.1	1.8	NO		NO	bb
8	8	171101M2_9	Standard	5.000	2.84	2982.061	10206.662	3.652	5.2	3.9	NO		NO	bb
9	9	171101M2_10	Standard	5.000	2.84	2747.428	9294.536	3.695	5.3	5.1	NO		NO	bb

Compound name: 13C4-PFHpA
Response Factor: 0.656302
RRF SD: 0.0370562, Relative SD: 5.64622
Response type: Internal Std (Ref 55), 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	171101M2_2	Standard	12.500	3.46	7453.529	11391.188	8.179	12.5	-0.3	NO		NO	bb
2	2	171101M2_3	Standard	12.500	3.46	7482.749	11378.998	8.220	12.5	0.2	NO		NO	MM
3	3	171101M2_4	Standard	12.500	3.46	7180.527	11415.921	7.862	12.0	-4.2	NO		NO	bb
4	4	171101M2_5	Standard	12.500	3.46	6706.432	10224.924	8.199	12.5	-0.1	NO		NO	bb
5	5	171101M2_6	Standard	12.500	3.46	6759.738	11052.971	7.645	11.6	-6.8	NO		NO	bb
6	6	171101M2_7	Standard	12.500	3.46	6924.742	11049.399	7.834	11.9	-4.5	NO		NO	bb
7	7	171101M2_8	Standard	12.500	3.46	7082.820	10170.967	8.705	13.3	6.1	NO		NO	bb
8	8	171101M2_9	Standard	12.500	3.46	6574.111	10206.662	8.051	12.3	-1.9	NO		NO	bb
9	9	171101M2_10	Standard	12.500	3.46	6795.731	9294.536	9.139	13.9	11.4	NO		NO	bb

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Compound name: 18O2-PFHxS
Response Factor: 0.408023
RRF SD: 0.0350955, Relative SD: 8.60135
Response type: Internal Std (Ref 56), 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	171101M2_2	Standard	12.500	3.62	812.666	1824.727	5.567	13.6	9.2	NO		NO	bb
2	2	171101M2_3	Standard	12.500	3.62	769.792	1756.793	5.477	13.4	7.4	NO		NO	MM
3	3	171101M2_4	Standard	12.500	3.62	761.149	2012.881	4.727	11.6	-7.3	NO		NO	bb
4	4	171101M2_5	Standard	12.500	3.62	820.212	1961.577	5.227	12.8	2.5	NO		NO	bb
5	5	171101M2_6	Standard	12.500	3.62	754.554	2220.692	4.247	10.4	-16.7	NO		NO	bb
6	6	171101M2_7	Standard	12.500	3.62	805.906	2018.177	4.992	12.2	-2.1	NO		NO	bb
7	7	171101M2_8	Standard	12.500	3.62	744.188	1928.980	4.822	11.8	-5.4	NO		NO	bb
8	8	171101M2_9	Standard	12.500	3.62	765.613	1771.625	5.402	13.2	5.9	NO		NO	bb
9	9	171101M2_10	Standard	12.500	3.62	757.123	1739.194	5.442	13.3	6.7	NO		NO	bb

Compound name: 13C2-6:2 FTS
Response Factor: 0.243288
RRF SD: 0.0296469, Relative SD: 12.1859
Response type: Internal Std (Ref 57), 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	171101M2_2	Standard	12.500	3.94	2233.981	8908.134	3.135	12.9	3.1	NO		NO	bb
2	2	171101M2_3	Standard	12.500	3.93	1797.167	9469.225	2.372	9.8	-22.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	3.93	2305.031	8914.236	3.232	13.3	6.3	NO		NO	bb
4	4	171101M2_5	Standard	12.500	3.94	2485.198	8682.725	3.578	14.7	17.6	NO		NO	bb
5	5	171101M2_6	Standard	12.500	3.93	1914.018	8385.475	2.853	11.7	-6.2	NO		NO	bb
6	6	171101M2_7	Standard	12.500	3.94	2531.245	10140.876	3.120	12.8	2.6	NO		NO	bb
7	7	171101M2_8	Standard	12.500	3.93	2492.697	10395.573	2.997	12.3	-1.4	NO		NO	bb
8	8	171101M2_9	Standard	12.500	3.93	3081.021	8080.410	4.766	19.6	56.7	NO		NO	bbX
9	9	171101M2_10	Standard	12.500	3.94	4190.109	8018.018	6.532	26.9	114.8	NO		NO	bbX

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Compound name: 13C2-PFOA
Response Factor: 1.07566
RRF SD: 0.102081, Relative SD: 9.49016
Response type: Internal Std (Ref 57), 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	171101M2_2	Standard	12.500	4.00	9924.695	8908.134	13.926	12.9	3.6	NO		NO	MM
2	2	171101M2_3	Standard	12.500	3.99	8558.803	9469.225	11.298	10.5	-16.0	NO		NO	MM
3	3	171101M2_4	Standard	12.500	3.99	10281.591	8914.236	14.417	13.4	7.2	NO		NO	MM
4	4	171101M2_5	Standard	12.500	3.99	8981.246	8682.725	12.930	12.0	-3.8	NO		NO	bb
5	5	171101M2_6	Standard	12.500	3.99	9210.015	8385.475	13.729	12.8	2.1	NO		NO	bb
6	6	171101M2_7	Standard	12.500	3.99	10212.730	10140.876	12.589	11.7	-6.4	NO		NO	bb
7	7	171101M2_8	Standard	12.500	3.99	10164.519	10395.573	12.222	11.4	-9.1	NO		NO	MM
8	8	171101M2_9	Standard	12.500	3.99	9495.746	8080.410	14.689	13.7	9.3	NO		NO	MM
9	9	171101M2_10	Standard	12.500	3.99	9756.466	8018.018	15.210	14.1	13.1	NO		NO	MM

Compound name: 13C5-PFNA
Response Factor: 0.914117
RRF SD: 0.0549735, Relative SD: 6.01383
Response type: Internal Std (Ref 58), 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	171101M2_2	Standard	12.500	4.44	10337.474	10046.546	12.862	14.1	12.6	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.44	8806.240	9542.171	11.536	12.6	1.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.44	9079.757	10566.560	10.741	11.8	-6.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.44	10406.848	11417.654	11.393	12.5	-0.3	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.44	7856.432	8827.820	11.125	12.2	-2.6	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.44	9879.441	10477.481	11.787	12.9	3.2	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.44	8131.582	9302.908	10.926	12.0	-4.4	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.44	7215.575	8471.153	10.647	11.6	-6.8	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.44	7864.049	8315.549	11.821	12.9	3.5	NO		NO	bb

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Compound name: 13C8-PFOSA
Response Factor: 0.211108
RRF SD: 0.0248408, Relative SD: 11.7668
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	4.50	2488.105	11019.168	2.822	13.4	7.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.50	2173.261	12213.336	2.224	10.5	-15.7	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.50	2316.429	12571.984	2.303	10.9	-12.7	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.50	2460.769	12186.696	2.524	12.0	-4.4	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.49	2385.449	10784.278	2.765	13.1	4.8	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.49	2539.556	10124.254	3.135	14.9	18.8	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.50	2371.964	10350.283	2.865	13.6	8.6	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.50	2292.883	10263.926	2.792	13.2	5.8	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.50	1928.119	10396.317	2.318	11.0	-12.1	NO		NO	bb

Compound name: 13C8-PFOS
Response Factor: 0.98209
RRF SD: 0.127736, Relative SD: 13.0066
Response type: Internal Std (Ref 59), 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	171101M2_2	Standard	12.500	4.53	2146.935	2263.443	11.857	12.1	-3.4	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.53	2165.581	2181.922	12.406	12.6	1.1	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.53	1803.802	2352.896	9.583	9.8	-21.9	NO		NO	MM
4	4	171101M2_5	Standard	12.500	4.53	2292.835	1957.776	14.639	14.9	19.3	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.53	2011.666	2163.006	11.625	11.8	-5.3	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.53	2021.868	2380.434	10.617	10.8	-13.5	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.53	2196.415	1934.421	14.193	14.5	15.6	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.53	2161.719	2119.523	12.749	13.0	3.9	NO		NO	MM
9	9	171101M2_10	Standard	12.500	4.53	2113.088	2061.039	12.816	13.0	4.4	NO		NO	bb

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Compound name: 13C2-PFDA
Response Factor: 0.891206
RRF SD: 0.0476201, Relative SD: 5.34333
Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	4.82	9736.471	10116.140	12.031	13.5	8.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.83	8842.695	10219.812	10.816	12.1	-2.9	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.83	10110.890	10527.445	12.005	13.5	7.8	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.83	8849.625	10155.254	10.893	12.2	-2.2	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.83	7993.759	9235.745	10.819	12.1	-2.9	NO		NO	MM
6	6	171101M2_7	Standard	12.500	4.82	8878.114	9742.396	11.391	12.8	2.3	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.83	8751.178	10150.413	10.777	12.1	-3.3	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.82	8304.557	10135.370	10.242	11.5	-8.1	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.83	8275.404	9164.907	11.287	12.7	1.3	NO		NO	MM

Compound name: 13C2-8:2 FTS
Response Factor: 0.198224
RRF SD: 0.0388515, Relative SD: 19.5998
Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	4.79	1683.321	10116.140	2.080	10.5	-16.1	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.79	2156.812	10219.812	2.638	13.3	6.5	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.79	2011.899	10527.445	2.389	12.1	-3.6	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.79	1588.127	10155.254	1.955	9.9	-21.1	NO		NO	MM
5	5	171101M2_6	Standard	12.500	4.79	1808.361	9235.745	2.448	12.3	-1.2	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.79	1589.212	9742.396	2.039	10.3	-17.7	NO		NO	MM
7	7	171101M2_8	Standard	12.500	4.79	2346.127	10150.413	2.889	14.6	16.6	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.79	2744.616	10135.370	3.385	17.1	36.6	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.79	3972.023	9164.907	5.417	27.3	118.6	NO		NO	MMX

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Compound name: d3-N-MeFOSAA
Response Factor: 0.360687
RRF SD: 0.031349, Relative SD: 8.69146
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	4.98	4027.428	11019.168	4.569	12.7	1.3	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.97	3659.645	12213.336	3.746	10.4	-16.9	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.98	4488.732	12571.984	4.463	12.4	-1.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.98	4299.515	12186.696	4.410	12.2	-2.2	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.98	3924.551	10784.278	4.549	12.6	0.9	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.98	3427.515	10124.254	4.232	11.7	-6.1	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.98	4155.820	10350.283	5.019	13.9	11.3	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.97	4144.976	10263.926	5.048	14.0	12.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.98	3777.897	10396.317	4.542	12.6	0.7	NO		NO	bb

Compound name: d5-N-EtFOSAA
Response Factor: 0.393968
RRF SD: 0.0235582, Relative SD: 5.97972
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	5.14	4405.323	11019.168	4.997	12.7	1.5	NO		NO	bb
2	2	171101M2_3	Standard	12.500	5.14	4738.349	12213.336	4.850	12.3	-1.5	NO		NO	bb
3	3	171101M2_4	Standard	12.500	5.14	4485.625	12571.984	4.460	11.3	-9.4	NO		NO	bb
4	4	171101M2_5	Standard	12.500	5.14	5097.849	12186.696	5.229	13.3	6.2	NO		NO	bb
5	5	171101M2_6	Standard	12.500	5.14	4541.219	10784.278	5.264	13.4	6.9	NO		NO	bb
6	6	171101M2_7	Standard	12.500	5.14	3794.698	10124.254	4.685	11.9	-4.9	NO		NO	bb
7	7	171101M2_8	Standard	12.500	5.14	4159.838	10350.283	5.024	12.8	2.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	5.14	4282.829	10263.926	5.216	13.2	5.9	NO		NO	bb
9	9	171101M2_10	Standard	12.500	5.14	3823.388	10396.317	4.597	11.7	-6.7	NO		NO	bb

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Compound name: 13C2-PFUdA
Response Factor: 0.96644
RRF SD: 0.0839463, Relative SD: 8.68614
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	5.16	10665.747	11019.168	12.099	12.5	0.2	NO		NO	bb
2	2	171101M2_3	Standard	12.500	5.16	9839.785	12213.336	10.071	10.4	-16.6	NO		NO	bb
3	3	171101M2_4	Standard	12.500	5.16	12652.625	12571.984	12.580	13.0	4.1	NO		NO	bb
4	4	171101M2_5	Standard	12.500	5.16	10433.171	12186.696	10.701	11.1	-11.4	NO		NO	bb
5	5	171101M2_6	Standard	12.500	5.16	11579.544	10784.278	13.422	13.9	11.1	NO		NO	bb
6	6	171101M2_7	Standard	12.500	5.16	10166.225	10124.254	12.552	13.0	3.9	NO		NO	bb
7	7	171101M2_8	Standard	12.500	5.16	10137.037	10350.283	12.242	12.7	1.3	NO		NO	bb
8	8	171101M2_9	Standard	12.500	5.16	10048.803	10263.926	12.238	12.7	1.3	NO		NO	bb
9	9	171101M2_10	Standard	12.500	5.16	10661.635	10396.317	12.819	13.3	6.1	NO		NO	bd

Compound name: 13C2-PFDoA
Response Factor: 0.989103
RRF SD: 0.132947, Relative SD: 13.4412
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	5.45	10914.335	11019.168	12.381	12.5	0.1	NO		NO	bb
2	2	171101M2_3	Standard	12.500	5.45	11091.776	12213.336	11.352	11.5	-8.2	NO		NO	MM
3	3	171101M2_4	Standard	12.500	5.45	9126.209	12571.984	9.074	9.2	-26.6	NO		NO	MM
4	4	171101M2_5	Standard	12.500	5.45	13783.913	12186.696	14.138	14.3	14.4	NO		NO	MM
5	5	171101M2_6	Standard	12.500	5.45	10323.613	10784.278	11.966	12.1	-3.2	NO		NO	MM
6	6	171101M2_7	Standard	12.500	5.45	11864.402	10124.254	14.648	14.8	18.5	NO		NO	MM
7	7	171101M2_8	Standard	12.500	5.45	10885.293	10350.283	13.146	13.3	6.3	NO		NO	MM
8	8	171101M2_9	Standard	12.500	5.45	9478.955	10263.926	11.544	11.7	-6.6	NO		NO	MM
9	9	171101M2_10	Standard	12.500	5.45	10832.117	10396.317	13.024	13.2	5.3	NO		NO	MM

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Compound name: d3-N-MeFOSA
Response Factor: 0.082535
RRF SD: 0.00646752, Relative SD: 7.83609
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	150.000	5.55	10920.747	11019.168	12.388	150.1	0.1	NO		NO	bb
2	2	171101M2_3	Standard	150.000	5.55	11069.925	12213.336	11.330	137.3	-8.5	NO		NO	bb
3	3	171101M2_4	Standard	150.000	5.55	11180.273	12571.984	11.116	134.7	-10.2	NO		NO	bb
4	4	171101M2_5	Standard	150.000	5.55	11414.953	12186.696	11.708	141.9	-5.4	NO		NO	bb
5	5	171101M2_6	Standard	150.000	5.55	10433.328	10784.278	12.093	146.5	-2.3	NO		NO	bb
6	6	171101M2_7	Standard	150.000	5.55	11336.587	10124.254	13.997	169.6	13.1	NO		NO	bb
7	7	171101M2_8	Standard	150.000	5.55	10309.881	10350.283	12.451	150.9	0.6	NO		NO	bb
8	8	171101M2_9	Standard	150.000	5.55	11194.595	10263.926	13.633	165.2	10.1	NO		NO	bb
9	9	171101M2_10	Standard	150.000	5.55	10566.709	10396.317	12.705	153.9	2.6	NO		NO	bb

Compound name: 13C2-PFTeDA
Response Factor: 0.926854
RRF SD: 0.12855, Relative SD: 13.8695
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	5.93	8920.923	11019.168	10.120	10.9	-12.7	NO		NO	bb
2	2	171101M2_3	Standard	12.500	5.93	11082.541	12213.336	11.343	12.2	-2.1	NO		NO	bb
3	3	171101M2_4	Standard	12.500	5.93	10386.270	12571.984	10.327	11.1	-10.9	NO		NO	MM
4	4	171101M2_5	Standard	12.500	5.93	10159.116	12186.696	10.420	11.2	-10.1	NO		NO	MM
5	5	171101M2_6	Standard	12.500	5.93	12309.719	10784.278	14.268	15.4	23.2	NO		NO	bb
6	6	171101M2_7	Standard	12.500	5.93	10627.188	10124.254	13.121	14.2	13.3	NO		NO	MM
7	7	171101M2_8	Standard	12.500	5.94	10508.160	10350.283	12.691	13.7	9.5	NO		NO	MM
8	8	171101M2_9	Standard	12.500	5.93	10189.543	10263.926	12.409	13.4	7.1	NO		NO	MM
9	9	171101M2_10	Standard	12.500	5.93	7961.406	10396.317	9.572	10.3	-17.4	NO		NO	bb

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Compound name: d5-N-ETFOSA
Response Factor: 0.124707
RRF SD: 0.00817966, Relative SD: 6.55911
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	150.000	5.99	16647.287	11019.168	18.884	151.4	1.0	NO		NO	bb
2	2	171101M2_3	Standard	150.000	5.99	16850.057	12213.336	17.246	138.3	-7.8	NO		NO	bb
3	3	171101M2_4	Standard	150.000	5.99	17366.871	12571.984	17.267	138.5	-7.7	NO		NO	bb
4	4	171101M2_5	Standard	150.000	5.99	17528.410	12186.696	17.979	144.2	-3.9	NO		NO	bb
5	5	171101M2_6	Standard	150.000	5.99	16636.188	10784.278	19.283	154.6	3.1	NO		NO	bb
6	6	171101M2_7	Standard	150.000	5.99	17127.262	10124.254	21.146	169.6	13.0	NO		NO	bb
7	7	171101M2_8	Standard	150.000	5.99	16066.025	10350.283	19.403	155.6	3.7	NO		NO	bb
8	8	171101M2_9	Standard	150.000	5.99	15649.029	10263.926	19.058	152.8	1.9	NO		NO	bb
9	9	171101M2_10	Standard	150.000	5.99	15043.336	10396.317	18.087	145.0	-3.3	NO		NO	MM

Compound name: 13C2-PFHxDA
Response Factor: 0.88249
RRF SD: 0.156563, Relative SD: 17.7411
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	5.000	6.29	3883.614	11019.168	4.406	5.0	-0.2	NO		NO	bb
2	2	171101M2_3	Standard	5.000	6.29	3817.230	12213.336	3.907	4.4	-11.5	NO		NO	MM
3	3	171101M2_4	Standard	5.000	6.29	4207.725	12571.984	4.184	4.7	-5.2	NO		NO	MM
4	4	171101M2_5	Standard	5.000	6.29	3740.619	12186.696	3.837	4.3	-13.0	NO		NO	bb
5	5	171101M2_6	Standard	5.000	6.29	4431.866	10784.278	5.137	5.8	16.4	NO		NO	bb
6	6	171101M2_7	Standard	5.000	6.29	4915.364	10124.254	6.069	6.9	37.5	NO		NO	bb
7	7	171101M2_8	Standard	5.000	6.29	3877.016	10350.283	4.682	5.3	6.1	NO		NO	bb
8	8	171101M2_9	Standard	5.000	6.29	3180.304	10263.926	3.873	4.4	-12.2	NO		NO	bb
9	9	171101M2_10	Standard	5.000	6.29	3009.218	10396.317	3.618	4.1	-18.0	NO		NO	bb

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Compound name: d7-N-MeFOSE
Response Factor: 0.111859
RRF SD: 0.0110502, Relative SD: 9.87862
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	150.000	6.18	14317.436	11019.168	16.242	145.2	-3.2	NO		NO	bb
2	2	171101M2_3	Standard	150.000	6.19	15923.317	12213.336	16.297	145.7	-2.9	NO		NO	bb
3	3	171101M2_4	Standard	150.000	6.19	14732.193	12571.984	14.648	130.9	-12.7	NO		NO	bb
4	4	171101M2_5	Standard	150.000	6.19	16010.885	12186.696	16.423	146.8	-2.1	NO		NO	bb
5	5	171101M2_6	Standard	150.000	6.19	13330.830	10784.278	15.452	138.1	-7.9	NO		NO	bb
6	6	171101M2_7	Standard	150.000	6.19	16244.414	10124.254	20.056	179.3	19.5	NO		NO	bb
7	7	171101M2_8	Standard	150.000	6.19	13685.151	10350.283	16.528	147.8	-1.5	NO		NO	bb
8	8	171101M2_9	Standard	150.000	6.19	15453.948	10263.926	18.821	168.3	12.2	NO		NO	bb
9	9	171101M2_10	Standard	150.000	6.19	13760.628	10396.317	16.545	147.9	-1.4	NO		NO	bb

Compound name: d9-N-EtFOSE
Response Factor: 0.103319
RRF SD: 0.0102781, Relative SD: 9.94784
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	150.000	6.35	13847.230	11019.168	15.708	152.0	1.4	NO		NO	bb
2	2	171101M2_3	Standard	150.000	6.34	14566.186	12213.336	14.908	144.3	-3.8	NO		NO	bb
3	3	171101M2_4	Standard	150.000	6.35	13431.374	12571.984	13.354	129.3	-13.8	NO		NO	MM
4	4	171101M2_5	Standard	150.000	6.34	14023.795	12186.696	14.384	139.2	-7.2	NO		NO	MM
5	5	171101M2_6	Standard	150.000	6.35	12380.260	10784.278	14.350	138.9	-7.4	NO		NO	bb
6	6	171101M2_7	Standard	150.000	6.34	14568.413	10124.254	17.987	174.1	16.1	NO		NO	bb
7	7	171101M2_8	Standard	150.000	6.35	14599.442	10350.283	17.632	170.7	13.8	NO		NO	bb
8	8	171101M2_9	Standard	150.000	6.34	13280.763	10263.926	16.174	156.5	4.4	NO		NO	bb
9	9	171101M2_10	Standard	150.000	6.34	12461.901	10396.317	14.984	145.0	-3.3	NO		NO	bb

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Compound name: 13C4-PFBA
Response Factor: 1
RRF SD: 8.77708e-017, Relative SD: 8.77708e-015
Response type: Internal Std (Ref 54), 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	171101M2_2	Standard	12.500	1.09	8142.679	8142.679	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	1.09	8277.161	8277.161	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	1.10	8406.574	8406.574	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	1.10	7954.337	7954.337	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	1.09	8148.479	8148.479	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	1.09	8354.898	8354.898	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	1.09	7934.175	7934.175	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	1.09	8062.725	8062.725	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	1.09	7600.219	7600.219	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 55), 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	171101M2_2	Standard	12.500	2.84	11391.188	11391.188	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	2.83	11378.998	11378.998	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	2.84	11415.921	11415.921	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	2.84	10224.924	10224.924	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	2.83	11052.971	11052.971	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	2.84	11049.399	11049.399	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	2.84	10170.967	10170.967	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	2.84	10206.662	10206.662	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	2.84	9294.536	9294.536	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 1.17757e-016, Relative SD: 1.17757e-014
Response type: Internal Std (Ref 56), 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	171101M2_2	Standard	12.500	3.62	1824.727	1824.727	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	3.61	1756.793	1756.793	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	3.62	2012.881	2012.881	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	3.62	1961.577	1961.577	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	3.62	2220.692	2220.692	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	3.62	2018.177	2018.177	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	3.62	1928.980	1928.980	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	3.62	1771.625	1771.625	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	3.61	1739.194	1739.194	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 6.7987e-017, Relative SD: 6.7987e-015
Response type: Internal Std (Ref 57), 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	171101M2_2	Standard	12.500	3.99	8908.134	8908.134	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	3.99	9469.225	9469.225	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	3.99	8914.236	8914.236	12.500	12.5	0.0	NO		NO	MM
4	4	171101M2_5	Standard	12.500	3.99	8682.725	8682.725	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	3.99	8385.475	8385.475	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	3.99	10140.876	10140.876	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	3.99	10395.573	10395.573	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	3.99	8080.410	8080.410	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	3.99	8018.018	8018.018	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 58), 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	171101M2_2	Standard	12.500	4.44	10046.546	10046.546	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.44	9542.171	9542.171	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.44	10566.560	10566.560	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.44	11417.654	11417.654	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.44	8827.820	8827.820	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.44	10477.481	10477.481	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.44	9302.908	9302.908	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.44	8471.153	8471.153	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.44	8315.549	8315.549	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 3.92523e-017, Relative SD: 3.92523e-015
Response type: Internal Std (Ref 59), 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	171101M2_2	Standard	12.500	4.53	2263.443	2263.443	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.53	2181.922	2181.922	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.53	2352.896	2352.896	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.53	1957.776	1957.776	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.53	2163.006	2163.006	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.53	2380.434	2380.434	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.53	1934.421	1934.421	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.53	2119.523	2119.523	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.53	2061.039	2061.039	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	4.82	10116.140	10116.140	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	4.83	10219.812	10219.812	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	4.83	10527.445	10527.445	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	4.82	10155.254	10155.254	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	4.83	9235.745	9235.745	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	4.82	9742.396	9742.396	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	4.83	10150.413	10150.413	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	4.82	10135.370	10135.370	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	4.83	9164.907	9164.907	12.500	12.5	0.0	NO		NO	MM

Compound name: 13C7-PFUdA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171101M2_2	Standard	12.500	5.16	11019.168	11019.168	12.500	12.5	0.0	NO		NO	bb
2	2	171101M2_3	Standard	12.500	5.16	12213.336	12213.336	12.500	12.5	0.0	NO		NO	bb
3	3	171101M2_4	Standard	12.500	5.16	12571.984	12571.984	12.500	12.5	0.0	NO		NO	bb
4	4	171101M2_5	Standard	12.500	5.16	12186.696	12186.696	12.500	12.5	0.0	NO		NO	bb
5	5	171101M2_6	Standard	12.500	5.16	10784.278	10784.278	12.500	12.5	0.0	NO		NO	bb
6	6	171101M2_7	Standard	12.500	5.16	10124.254	10124.254	12.500	12.5	0.0	NO		NO	bb
7	7	171101M2_8	Standard	12.500	5.16	10350.283	10350.283	12.500	12.5	0.0	NO		NO	bb
8	8	171101M2_9	Standard	12.500	5.16	10263.926	10263.926	12.500	12.5	0.0	NO		NO	bb
9	9	171101M2_10	Standard	12.500	5.16	10396.317	10396.317	12.500	12.5	0.0	NO		NO	bb

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

Dataset: Untitled

Last Altered: Thursday, November 02, 2017 13:18:57 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:20:13 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171101M2_1	IPA	01-Nov-17	14:44:30
2	171101M2_2	ST171101M2-1 PFC CS-2 17J2705	01-Nov-17	14:55:39
3	171101M2_3	ST171101M2-2 PFC CS-1 17J2706	01-Nov-17	15:06:49
4	171101M2_4	ST171101M2-3 PFC CS0 17J2707	01-Nov-17	15:18:12
5	171101M2_5	ST171101M2-4 PFC CS1 17J2708	01-Nov-17	15:29:47
6	171101M2_6	ST171101M2-5 PFC CS2 17J2710	01-Nov-17	15:40:57
7	171101M2_7	ST171101M2-6 PFC CS3 17J2709	01-Nov-17	15:52:08
8	171101M2_8	ST171101M2-7 PFC CS4 17J2711	01-Nov-17	16:03:19
9	171101M2_9	ST171101M2-8 PFC CS5 17J2712	01-Nov-17	16:14:30
10	171101M2_10	ST171101M2-9 PFC CS6 17J2713	01-Nov-17	16:25:40
11	171101M2_11	ST171101M2-10 PFC CS7 17J2714	01-Nov-17	16:37:23
12	171101M2_12	IPA	01-Nov-17	16:48:52
13	171101M2_13	ICV171101M2-1 PFC ICV 17J2704	01-Nov-17	17:00:03
14	171101M2_14	IPA	01-Nov-17	17:11:13

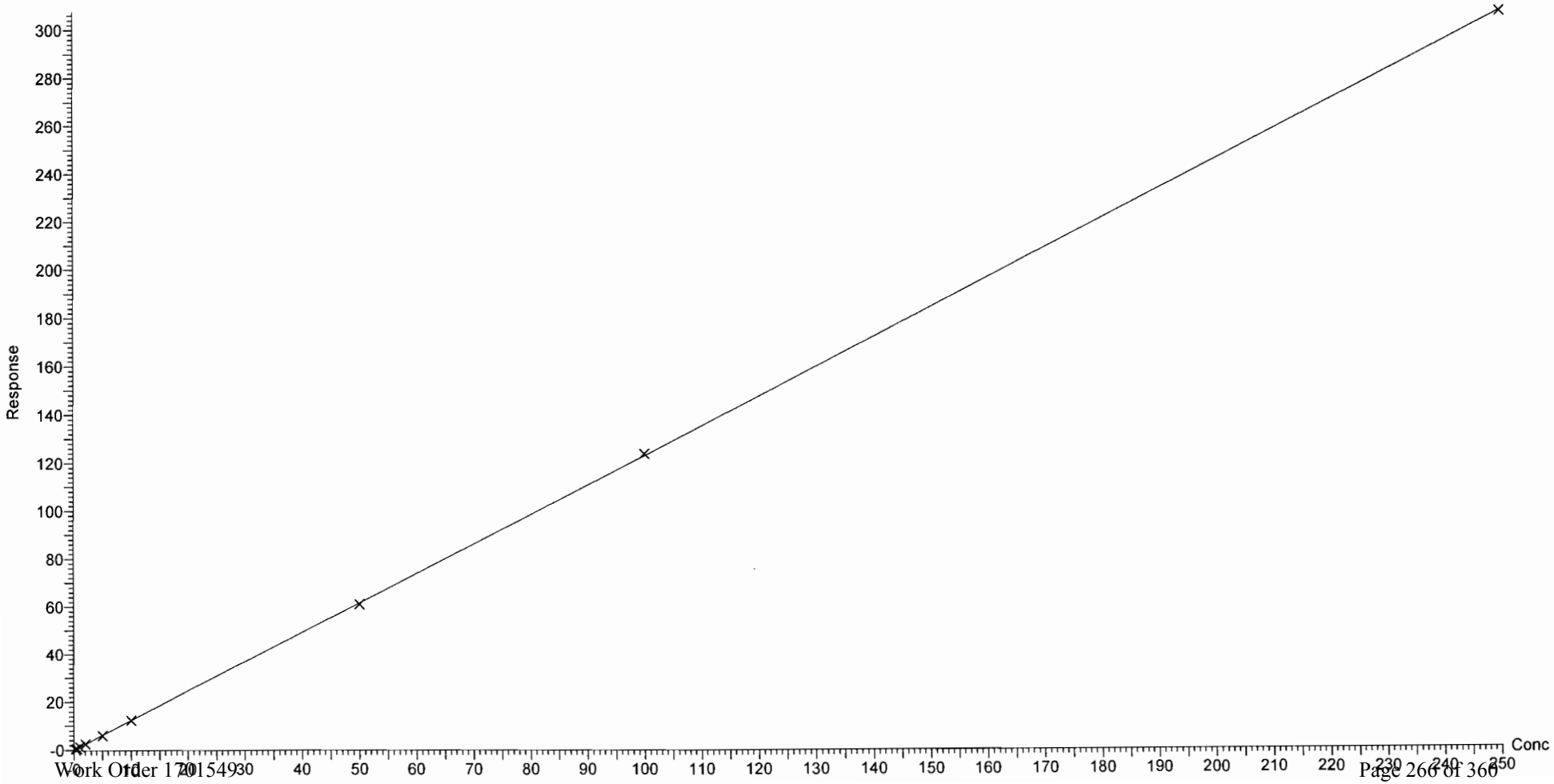
Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:46:03

Compound name: PFBA
Correlation coefficient: r = 0.999968, r^2 = 0.999935
Calibration curve: 1.22977 * x + 0.0313741
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

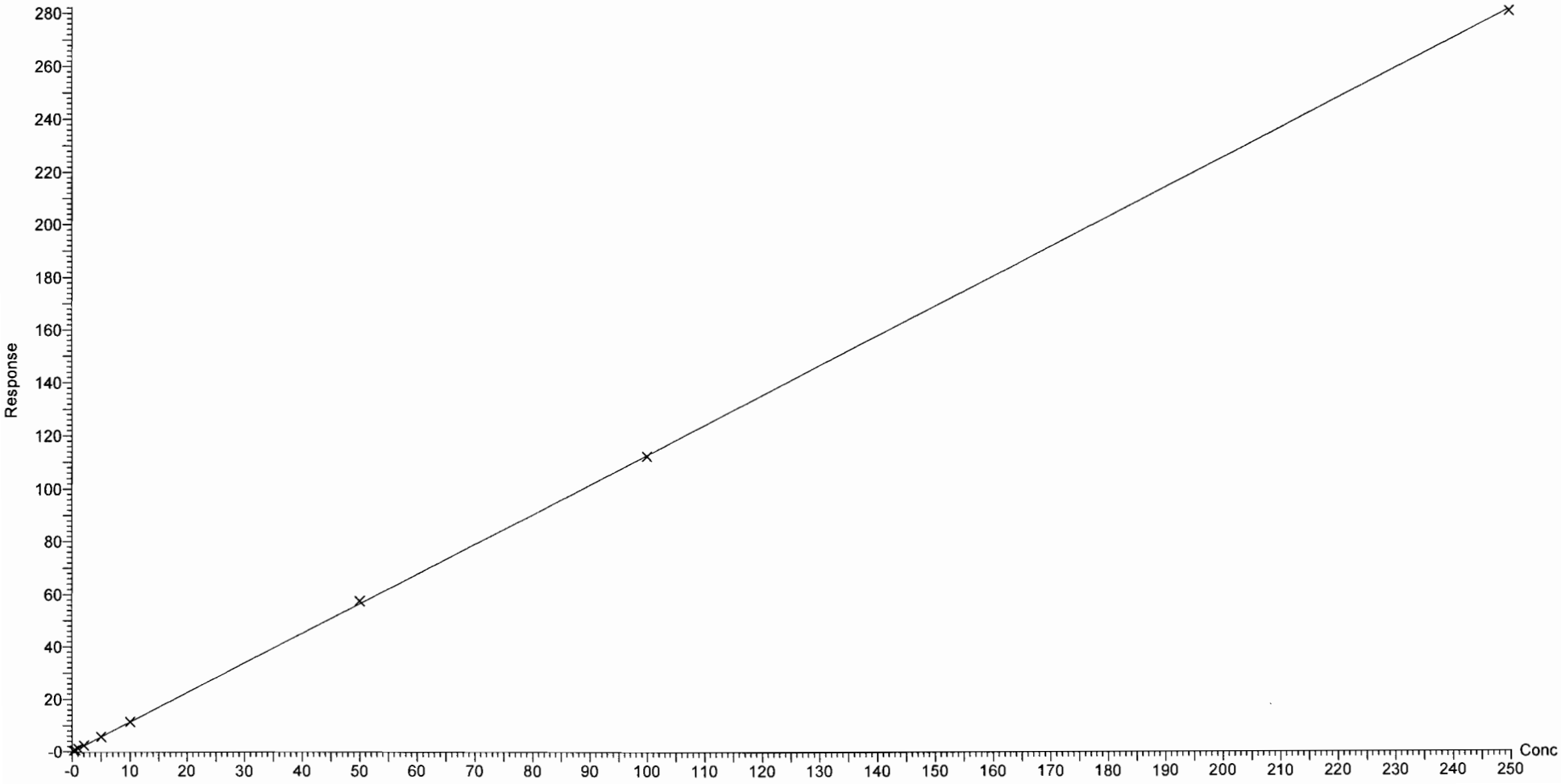


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Compound name: PFPeA
Correlation coefficient: r = 0.999964, r^2 = 0.999929
Calibration curve: 1.12781 * x + 0.0681555
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

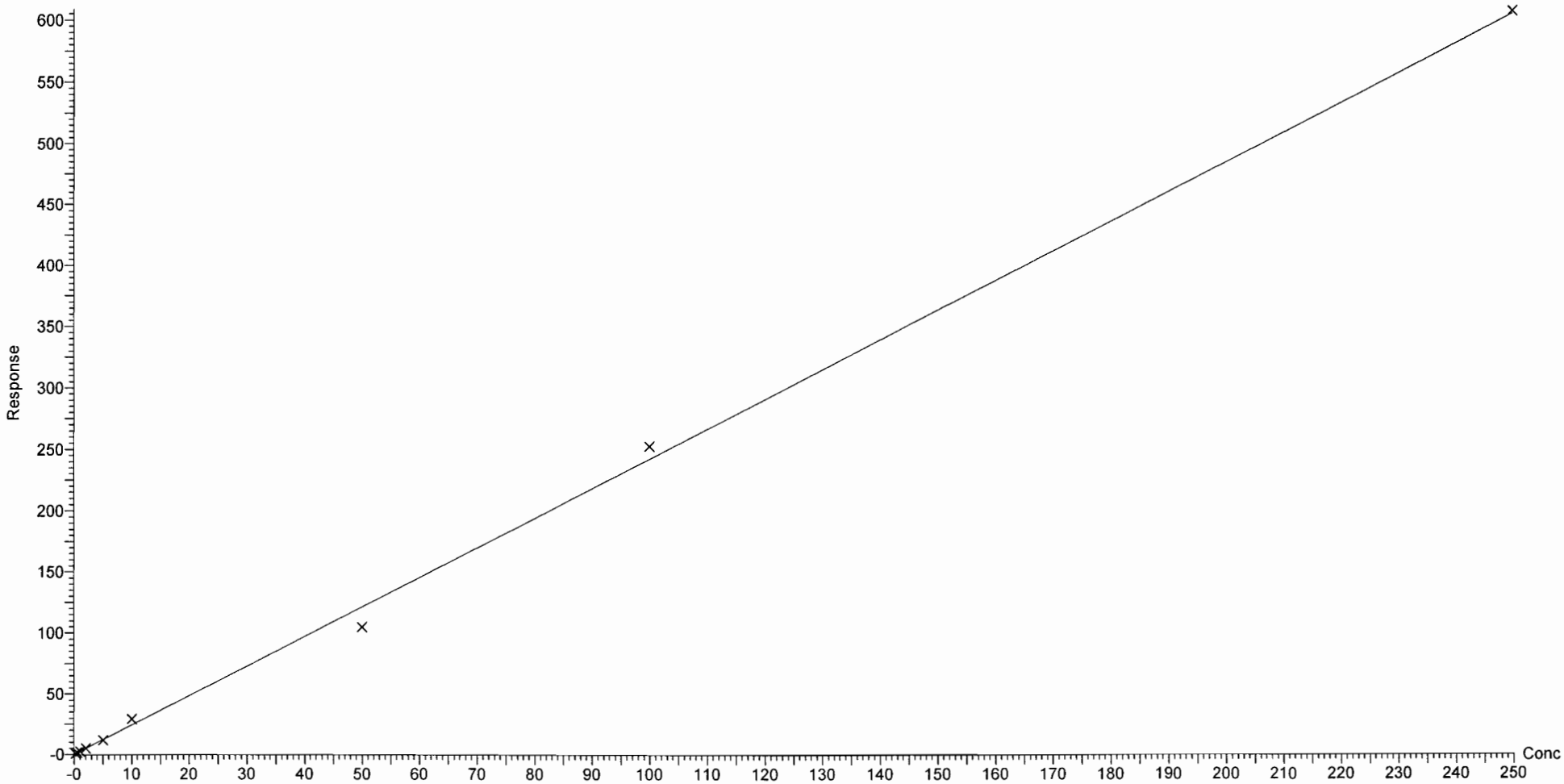


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Compound name: PFBS
Correlation coefficient: r = 0.998104, r^2 = 0.996212
Calibration curve: 2.42556 * x + 0.0902073
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

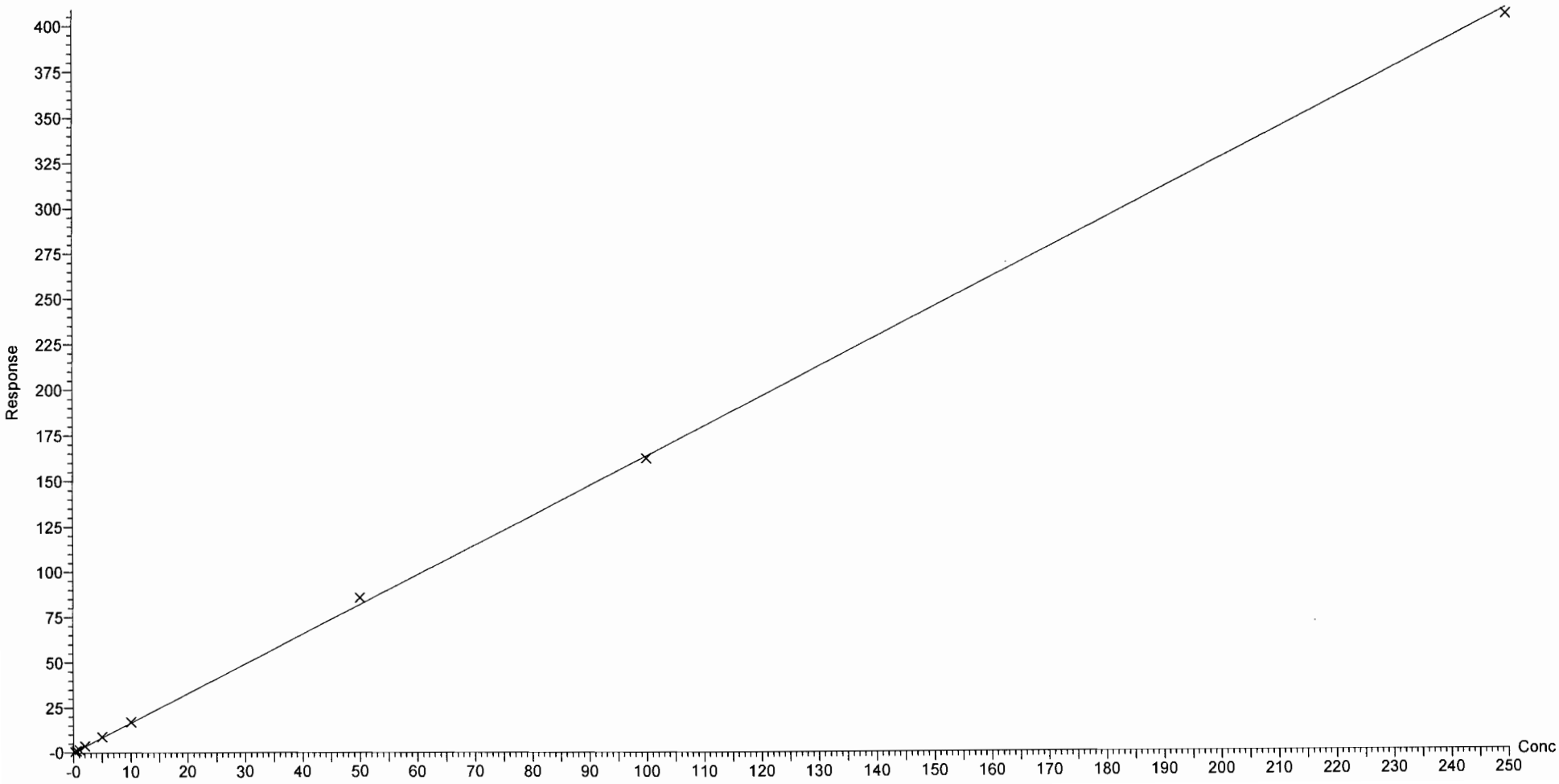


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

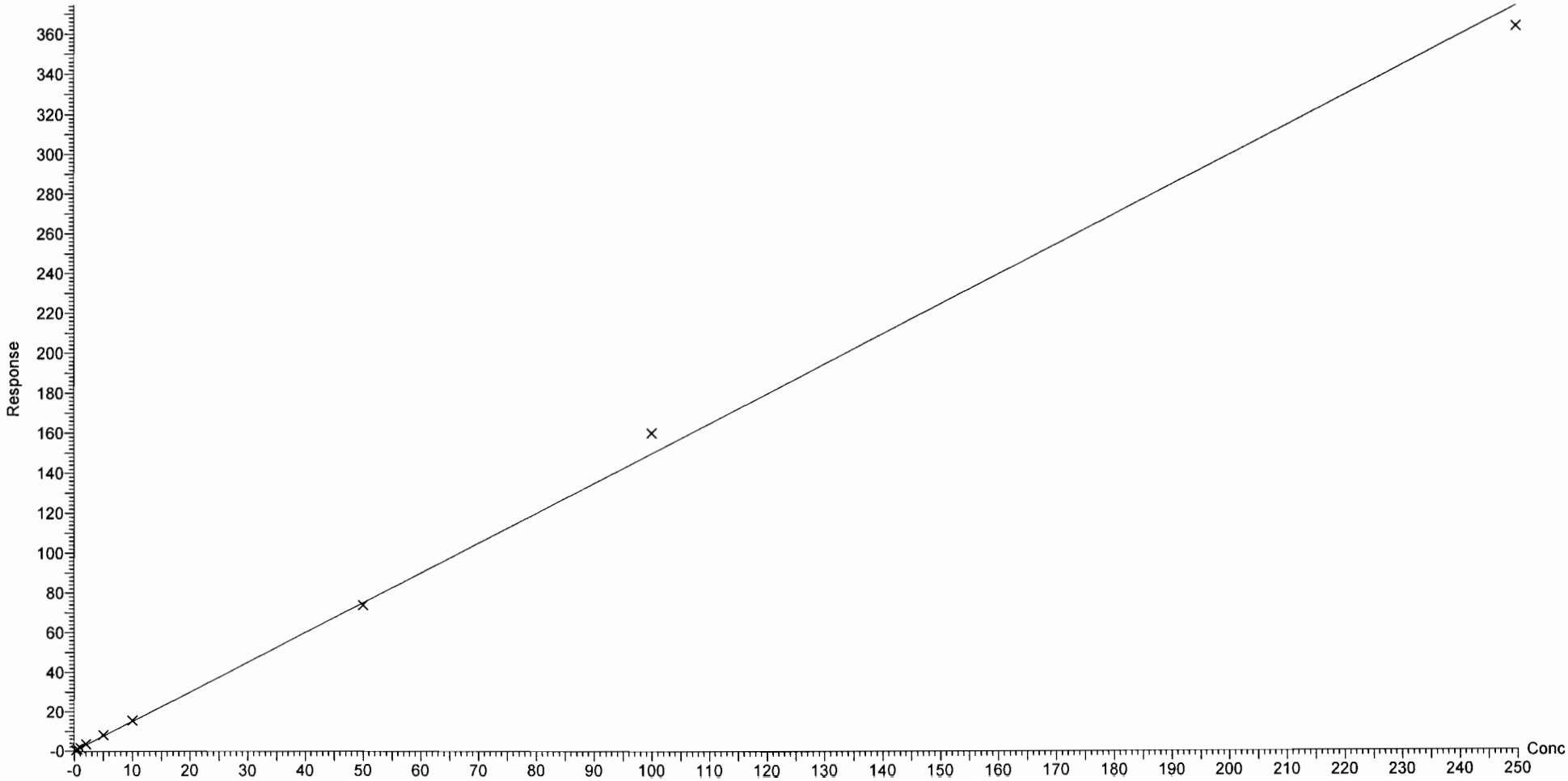
Compound name: PFHxA
Correlation coefficient: r = 0.999785, r^2 = 0.999570
Calibration curve: 1.63528 * x + 0.0887833
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Compound name: PFHpA
Correlation coefficient: r = 0.999098, r^2 = 0.998197
Calibration curve: 1.49748 * x + 0.0952765
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

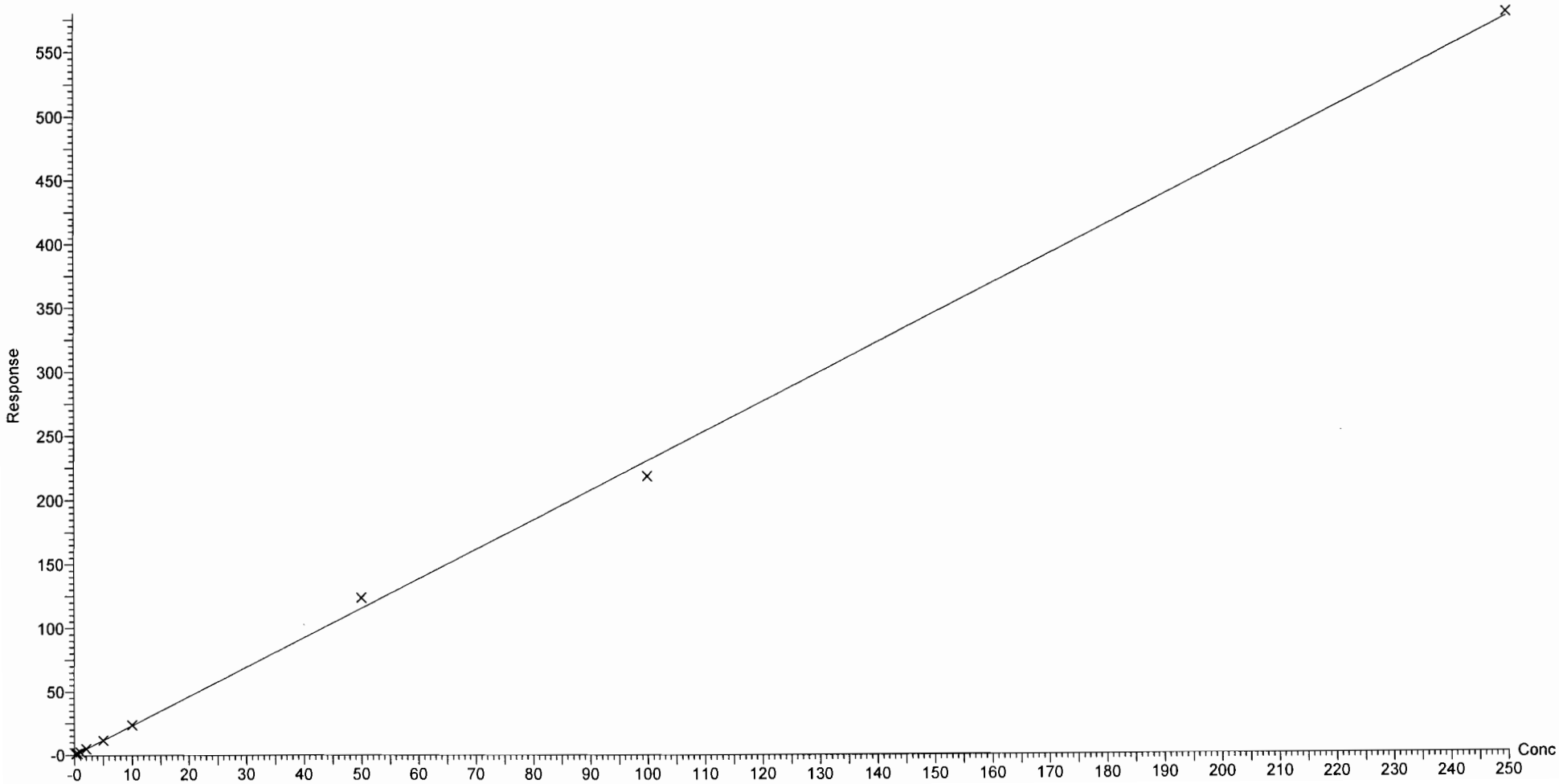


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Compound name: L-PFHxS
Correlation coefficient: r = 0.999318, r^2 = 0.998637
Calibration curve: 2.30504 * x + 0.102224
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

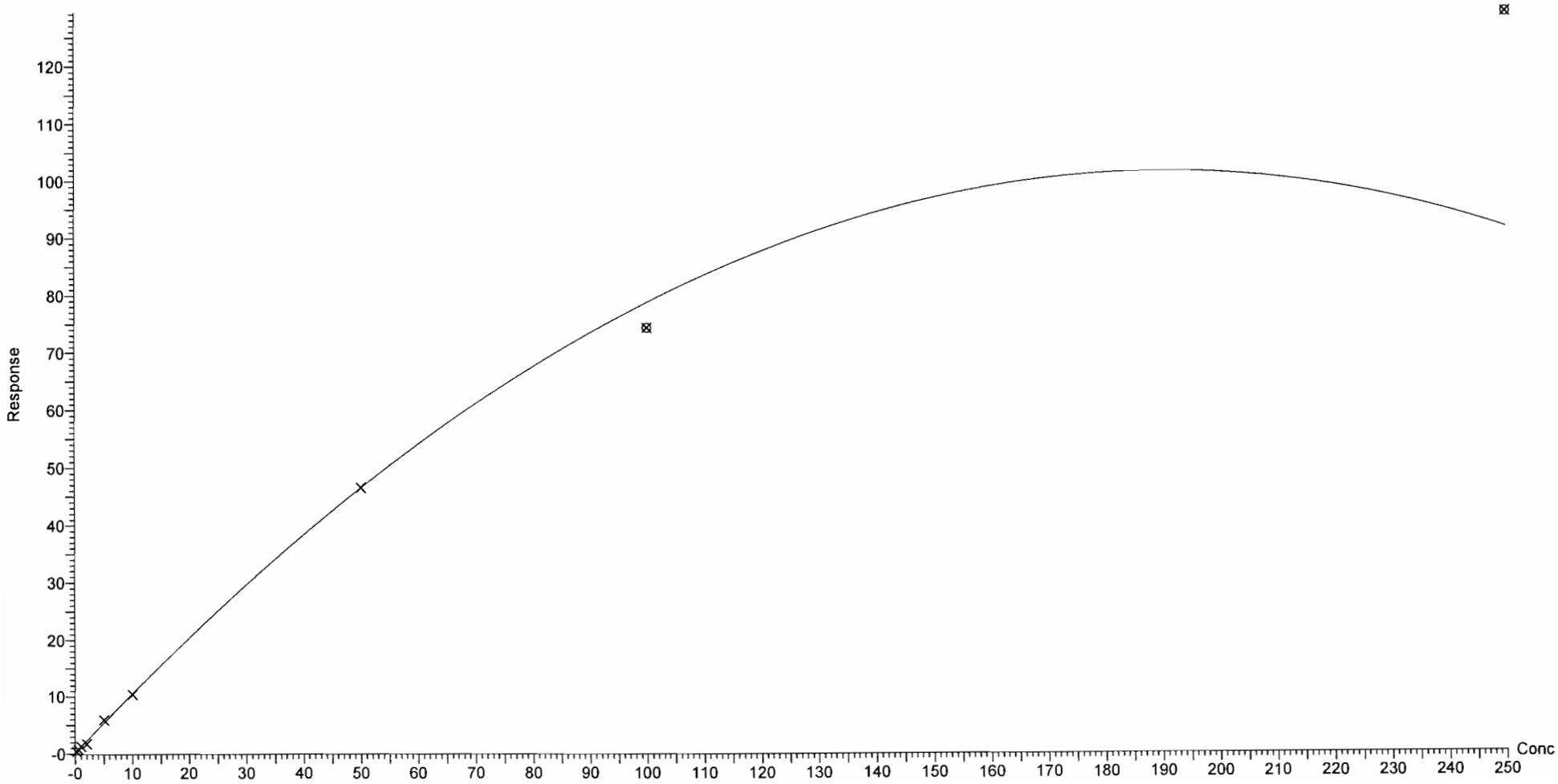


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

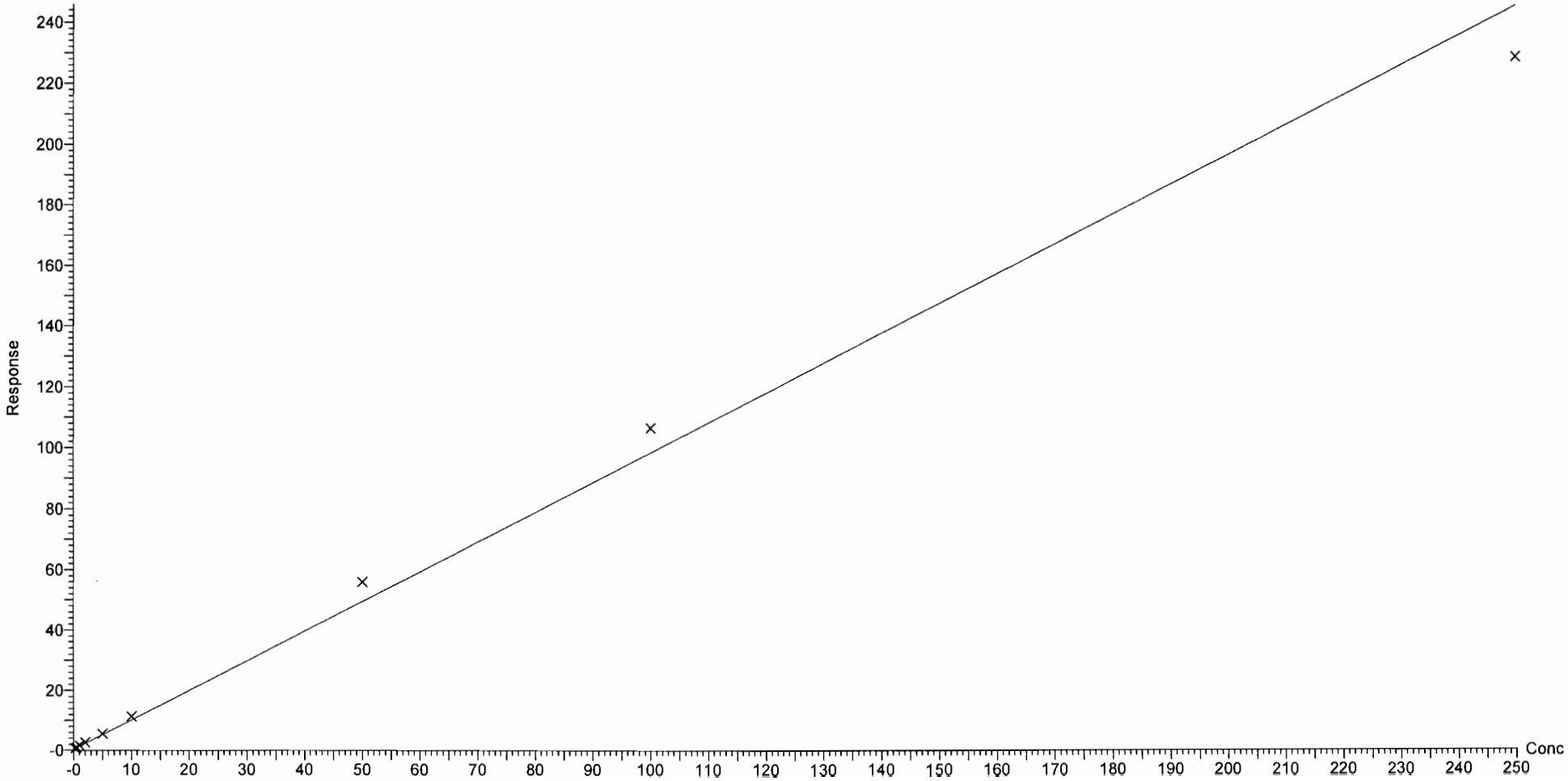
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.996052
Calibration curve: -0.00280351 * x^2 + 1.0671 * x + 0.158468
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

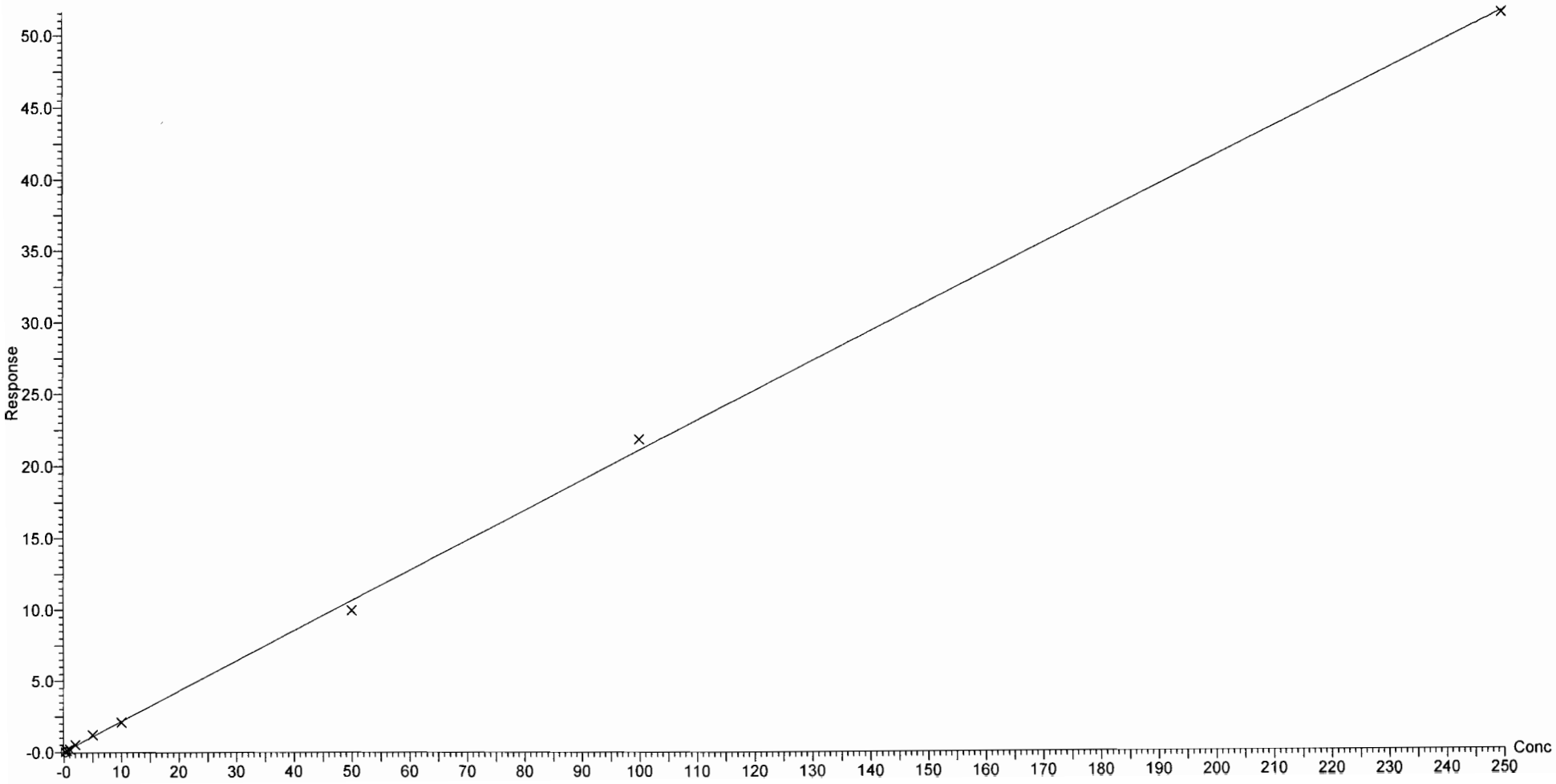
Compound name: L-PFOA
Correlation coefficient: r = 0.995810, r^2 = 0.991637
Calibration curve: 0.981904 * x + 0.300781
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

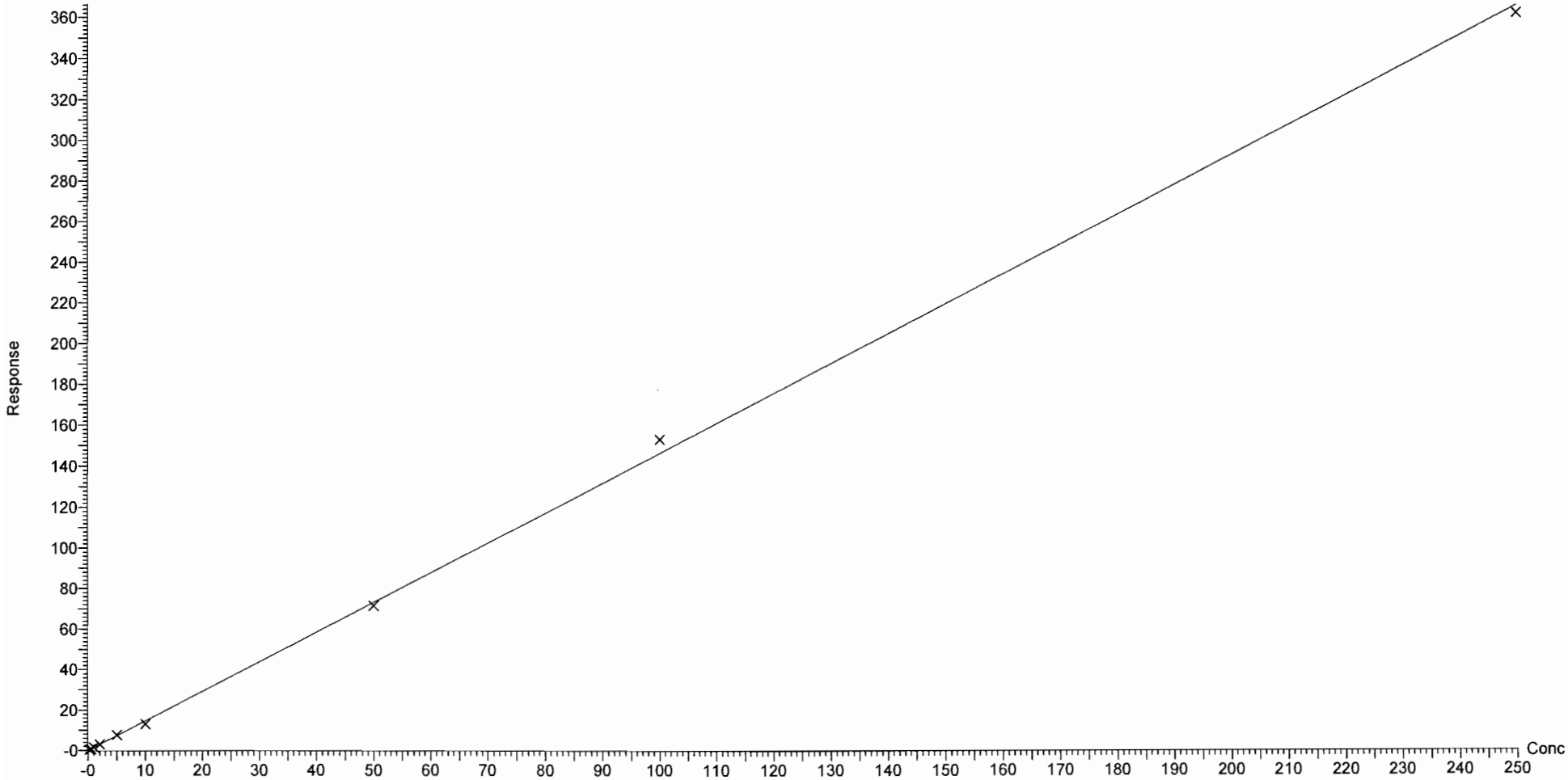
Compound name: PFHpS
Coefficient of Determination: R^2 = 0.998760
Calibration curve: -2.84754e-005 * x^2 + 0.213443 * x + 0.0290409
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

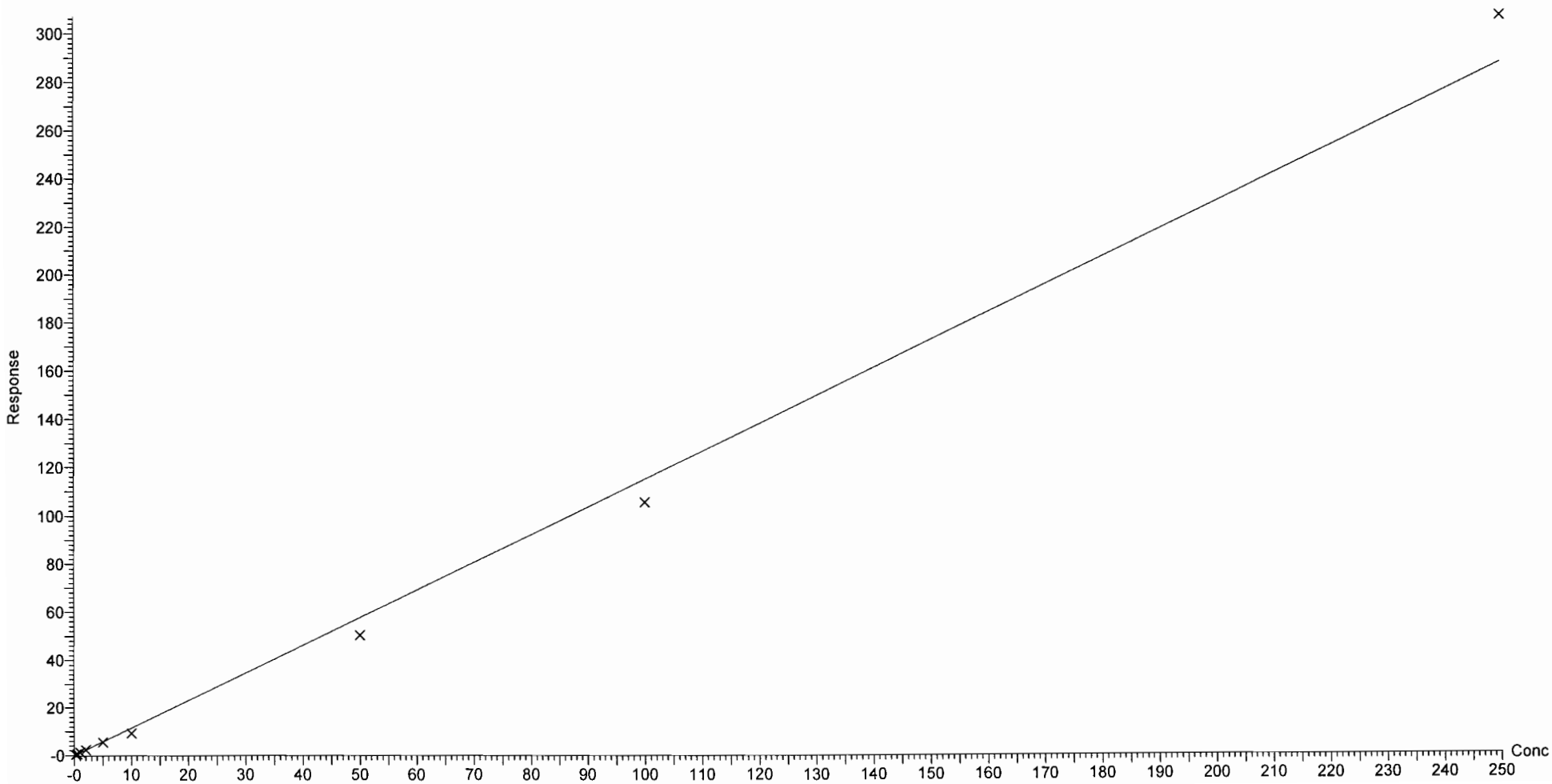
Compound name: PFNA
Correlation coefficient: r = 0.999483, r^2 = 0.998966
Calibration curve: 1.46555 * x + -0.059688
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

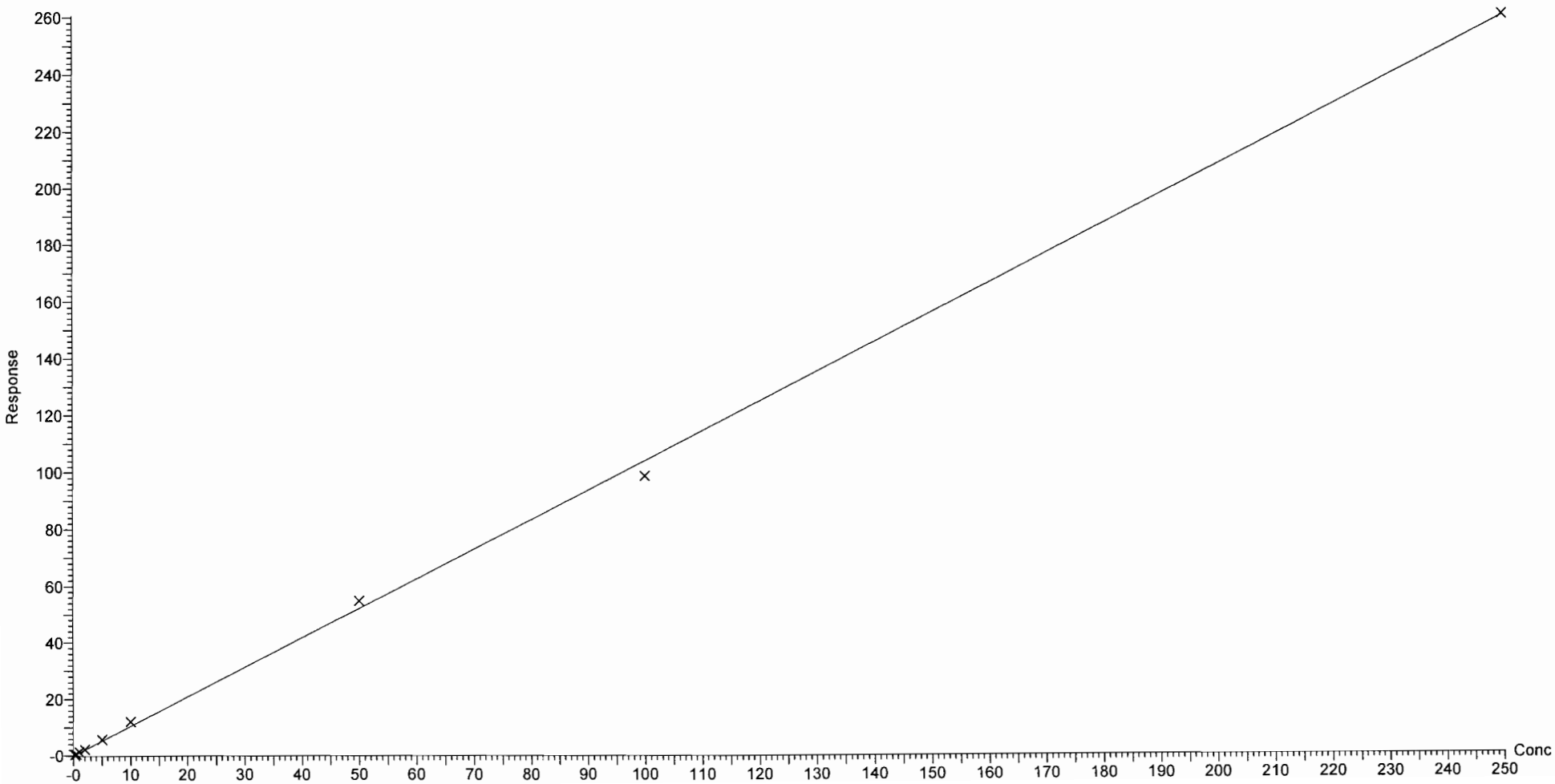
Compound name: PFOSA
Correlation coefficient: r = 0.996287, r^2 = 0.992589
Calibration curve: 1.15082 * x + -0.0195773
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

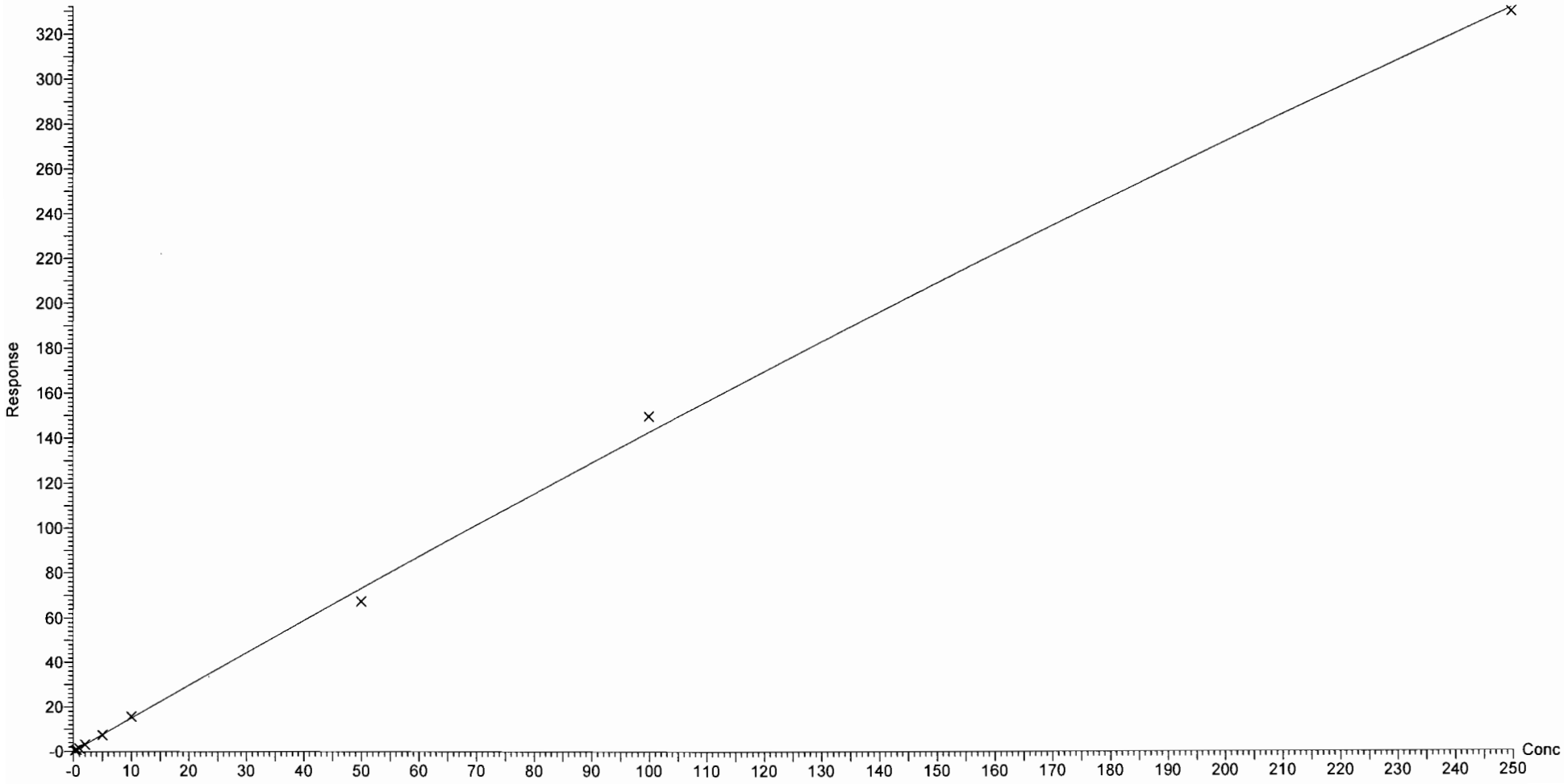
Compound name: L-PFOS
Correlation coefficient: r = 0.999036, r^2 = 0.998072
Calibration curve: 1.04044 * x + 0.0500723
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Compound name: PFDA
Coefficient of Determination: R^2 = 0.998376
Calibration curve: -0.000660412 * x^2 + 1.49317 * x + 0.028193
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



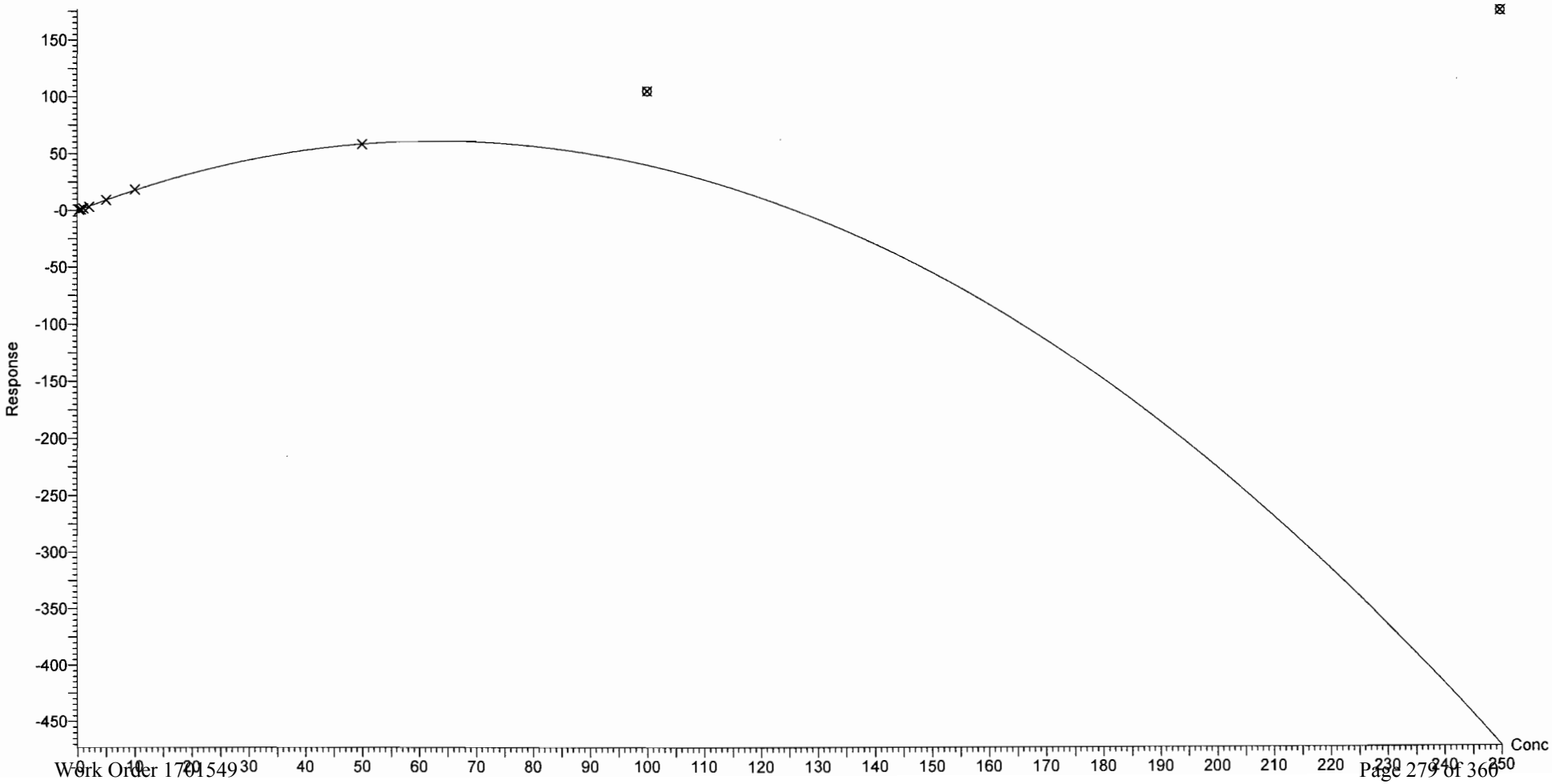
Quantify Calibration Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 13:07:10 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:07:46 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

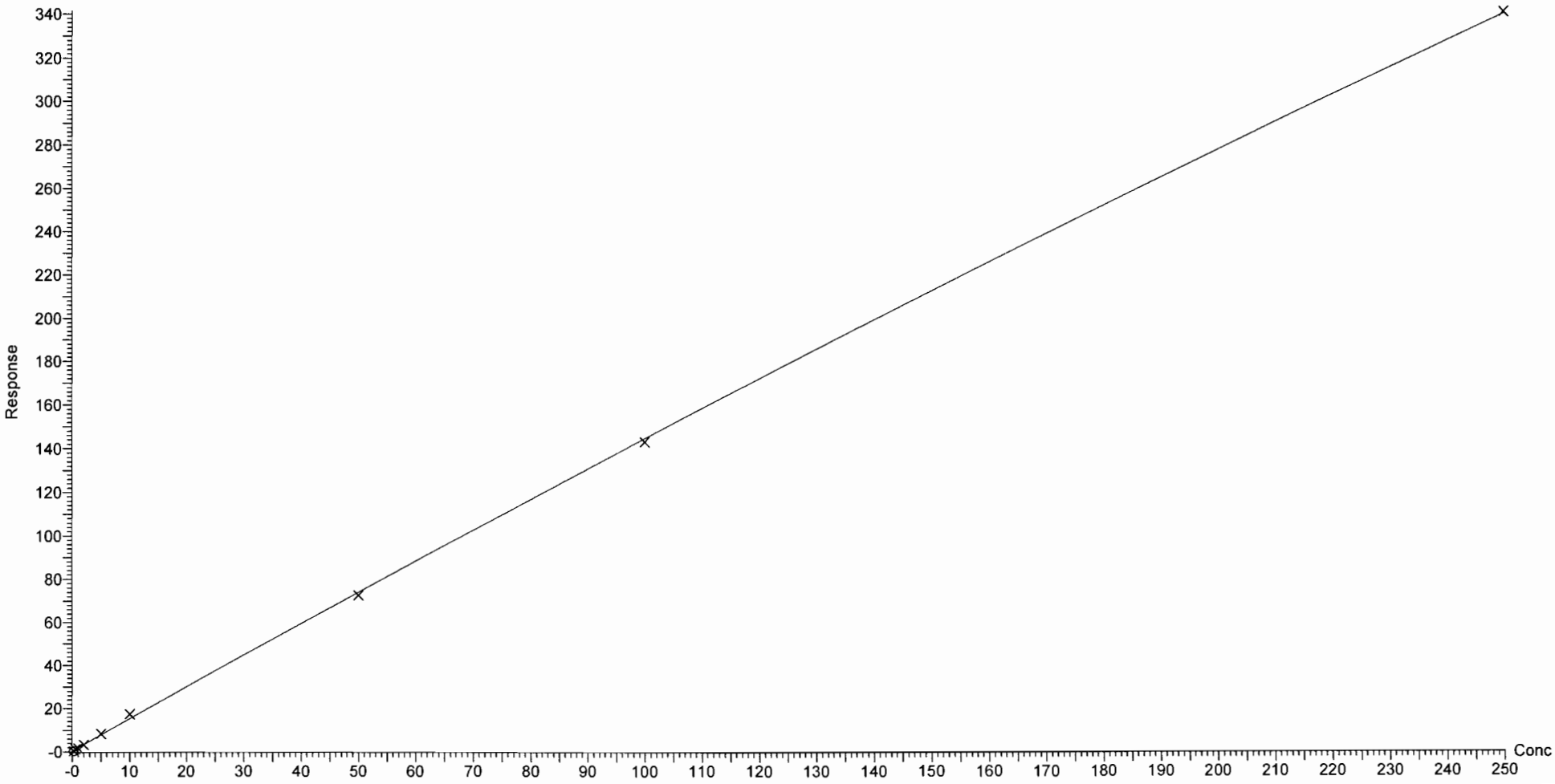
Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.998160
Calibration curve: -0.0153013 * x^2 + 1.93592 * x + -0.069515
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

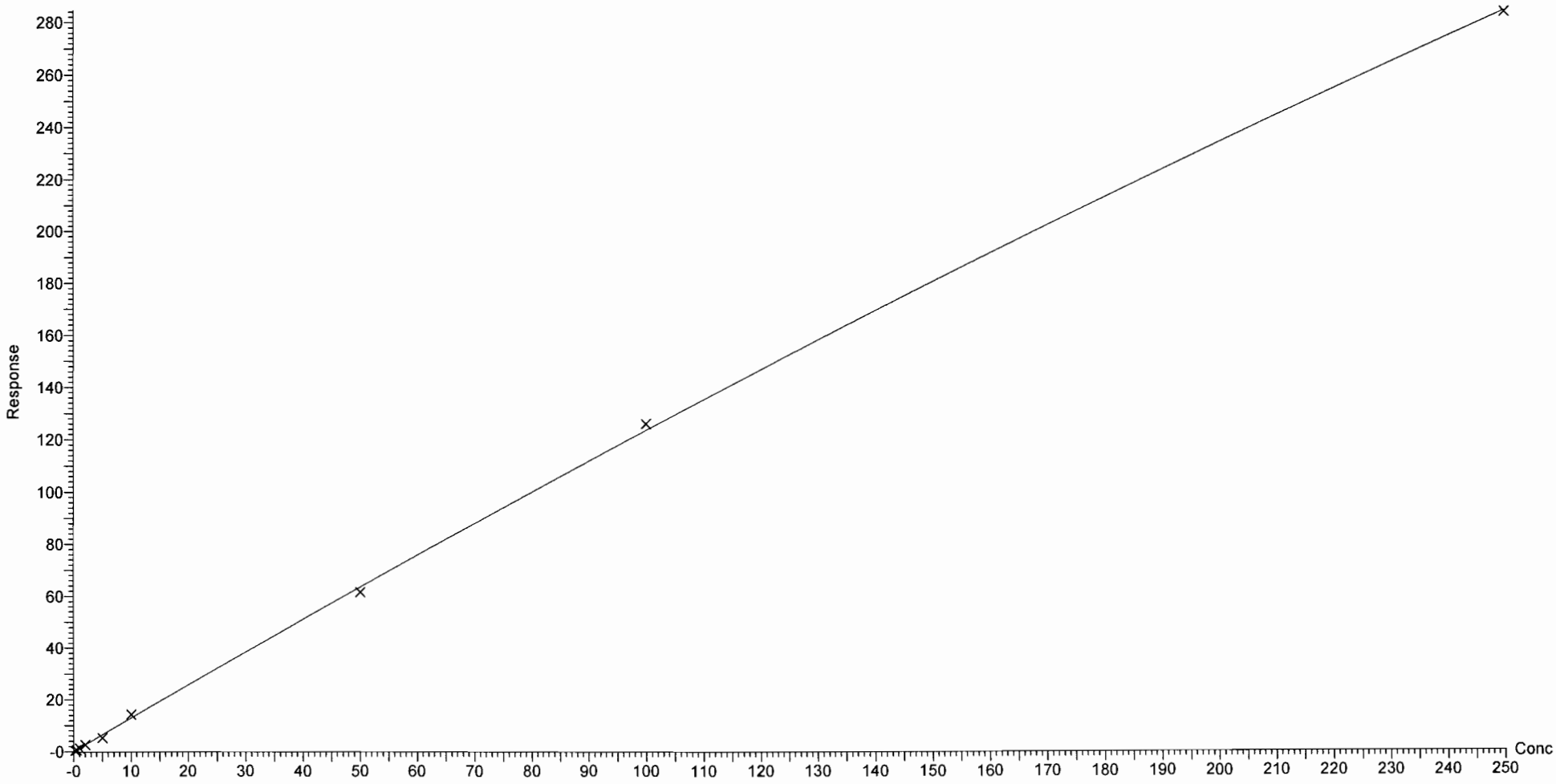
Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.999192
Calibration curve: -0.000561332 * x^2 + 1.50109 * x + 0.431366
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

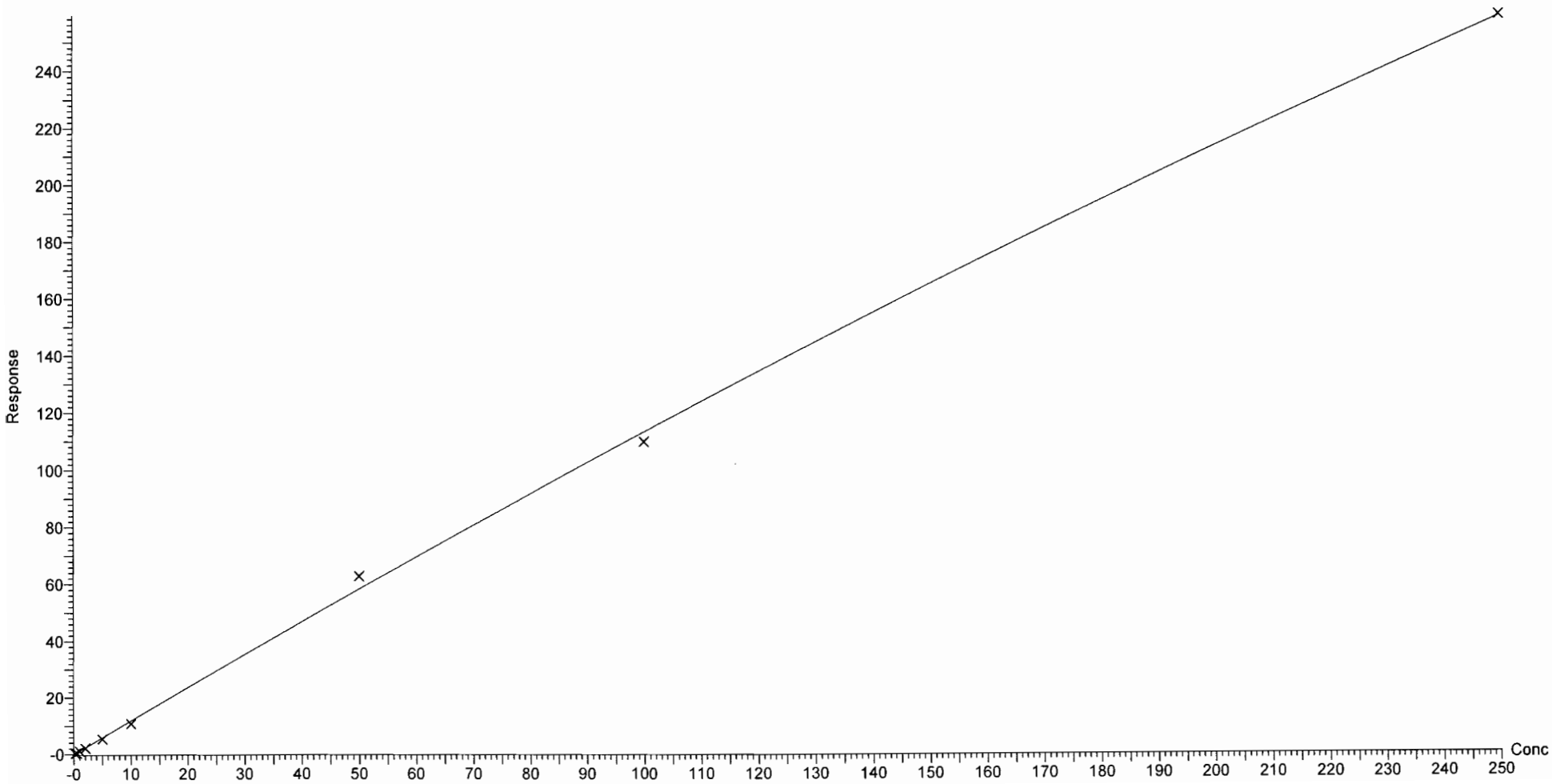
Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.998931
Calibration curve: -0.000660338 * x^2 + 1.30312 * x + -0.0210088
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

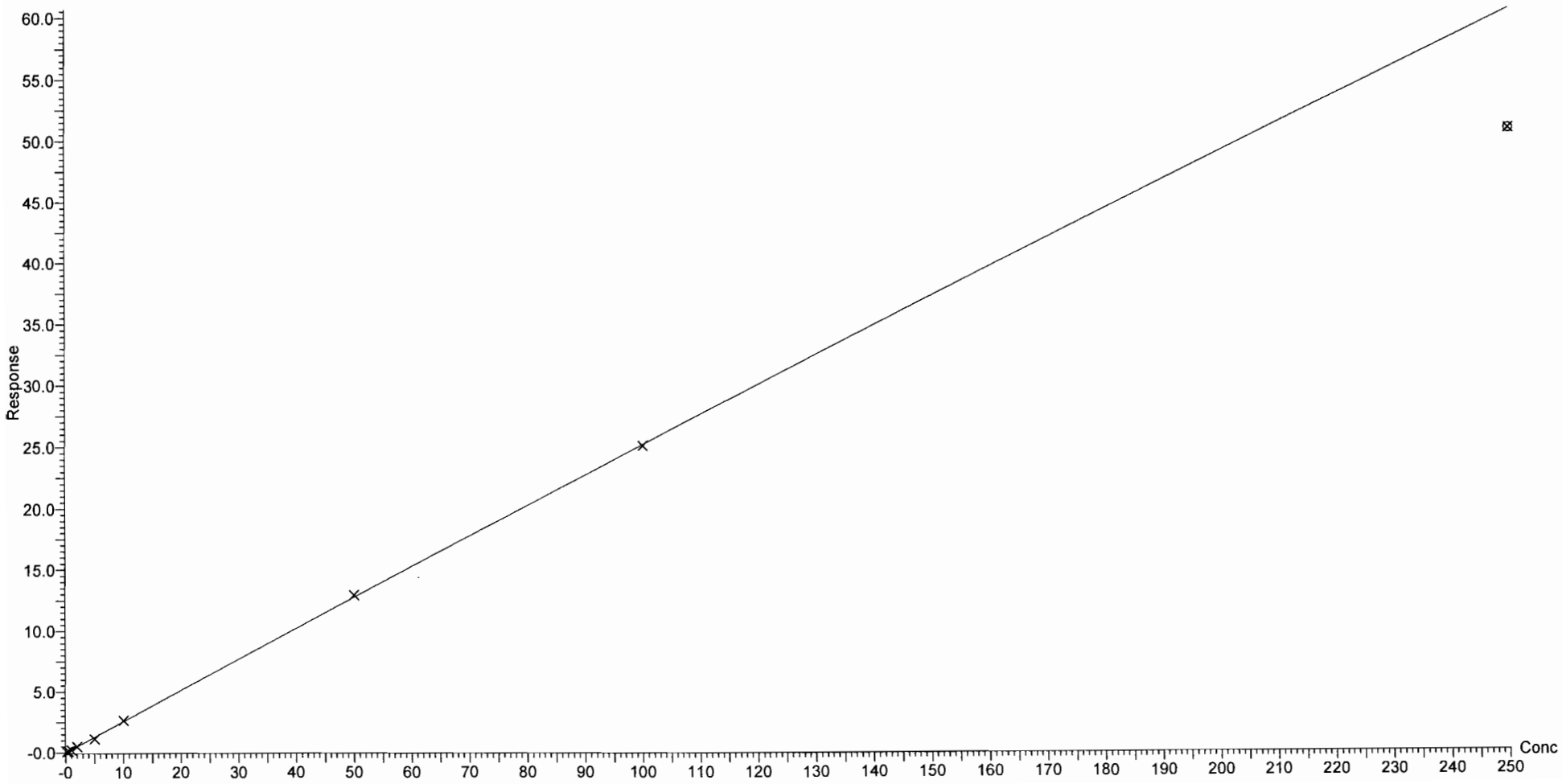
Compound name: PFUdA
Coefficient of Determination: R^2 = 0.998481
Calibration curve: -0.000659603 * x^2 + 1.2001 * x + -0.0749649
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

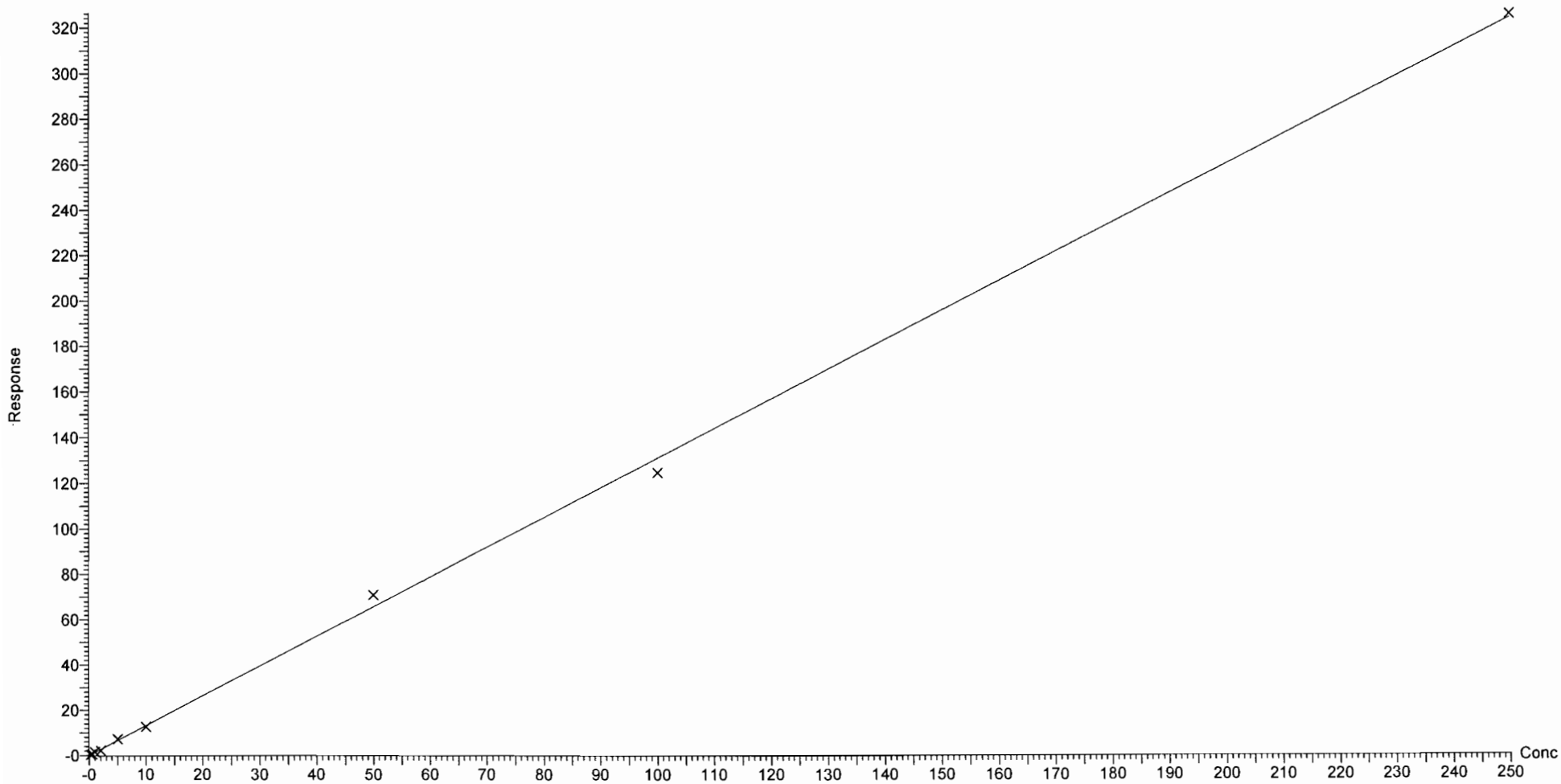
Compound name: PFDS
Coefficient of Determination: R^2 = 0.999321
Calibration curve: -6.34532e-005 * x^2 + 0.258511 * x + -0.0175711
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

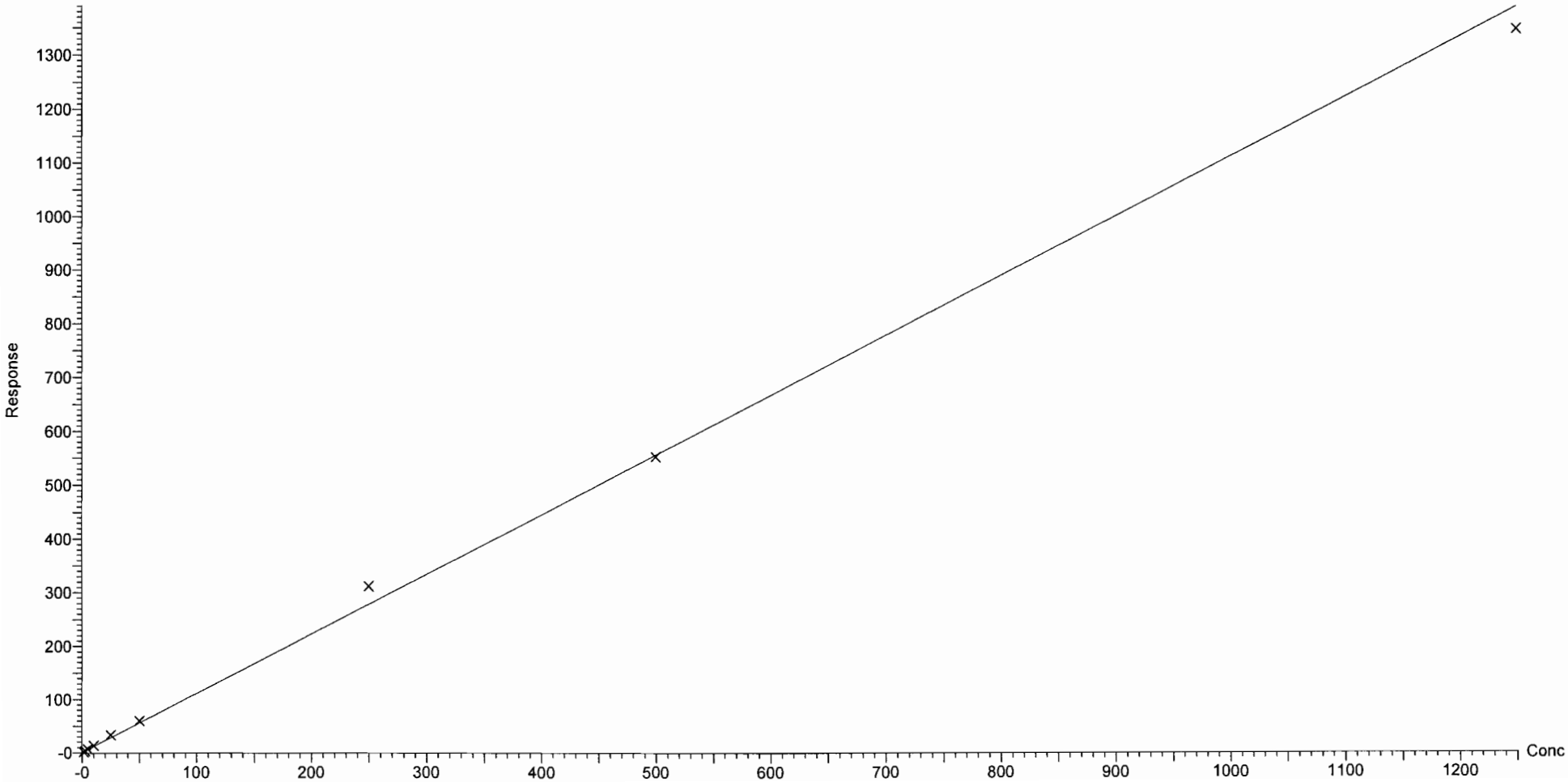
Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998189
Calibration curve: -8.05865e-005 * x^2 + 1.31949 * x + -0.00260412
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

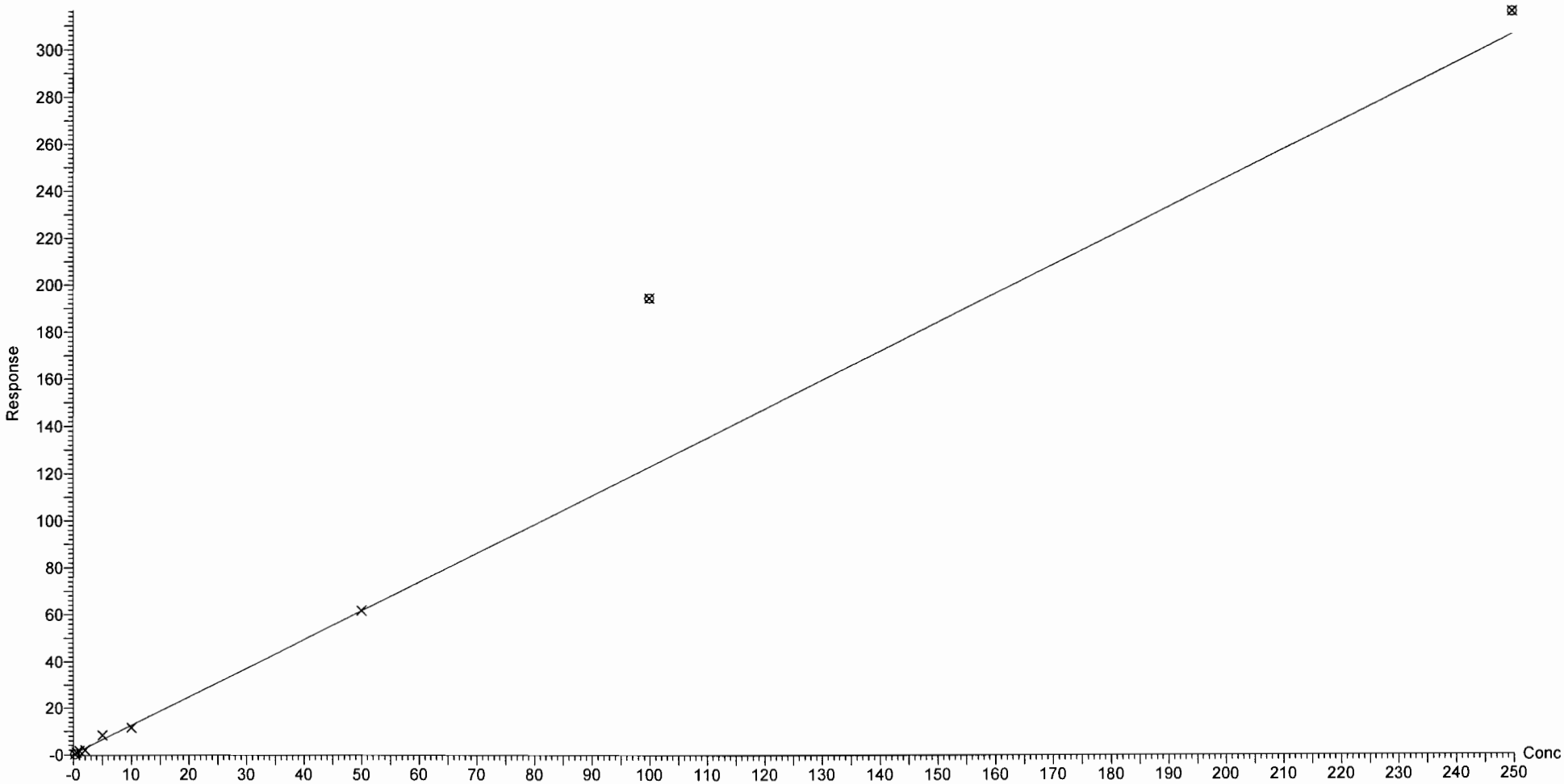
Compound name: N-MeFOSA
Correlation coefficient: r = 0.998437, r^2 = 0.996876
Calibration curve: 1.11234 * x + 0.50667
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

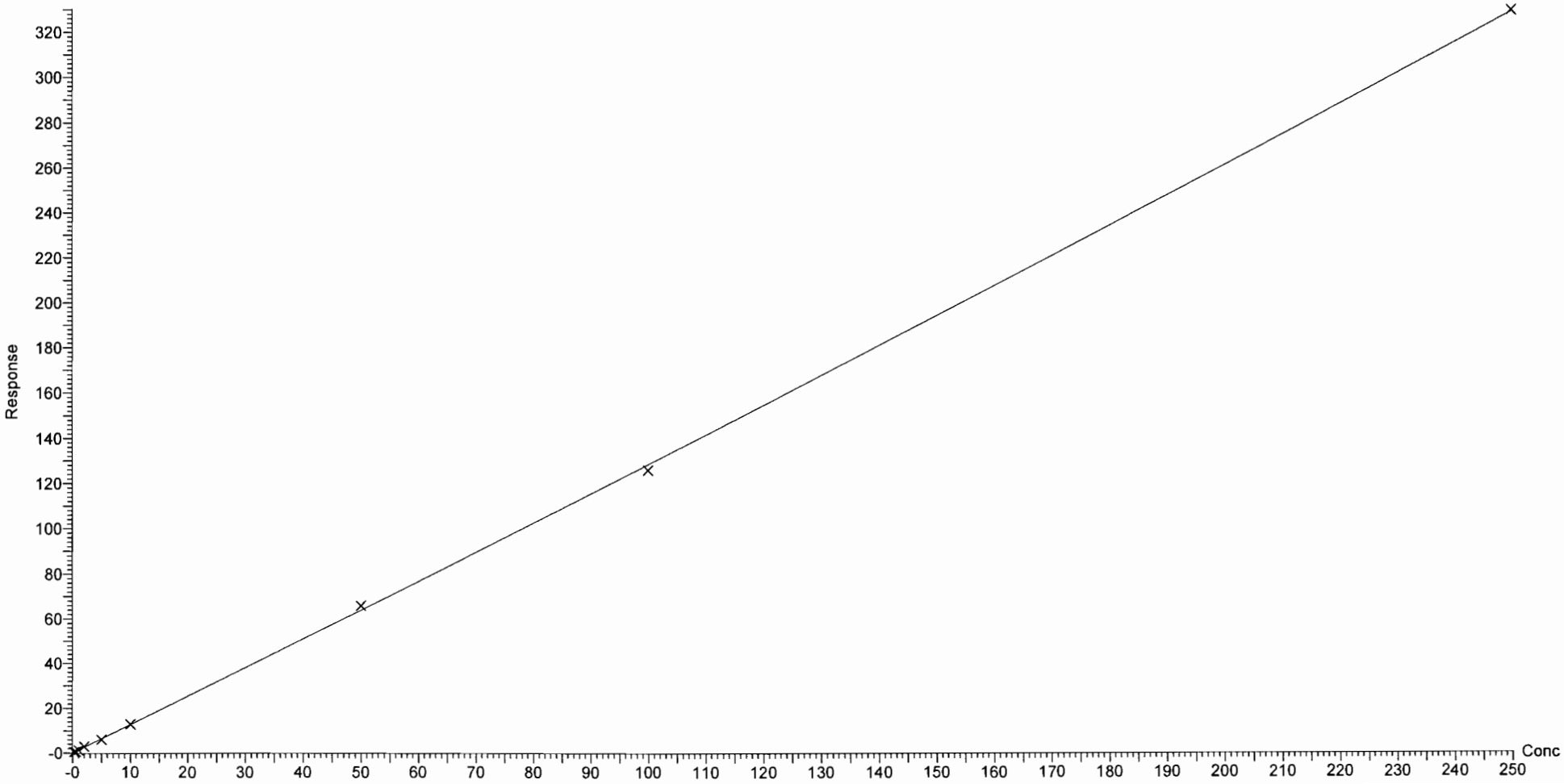
Compound name: PFTrDA
Correlation coefficient: r = 0.999167, r^2 = 0.998334
Calibration curve: 1.22636 * x + 0.338031
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: Null, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

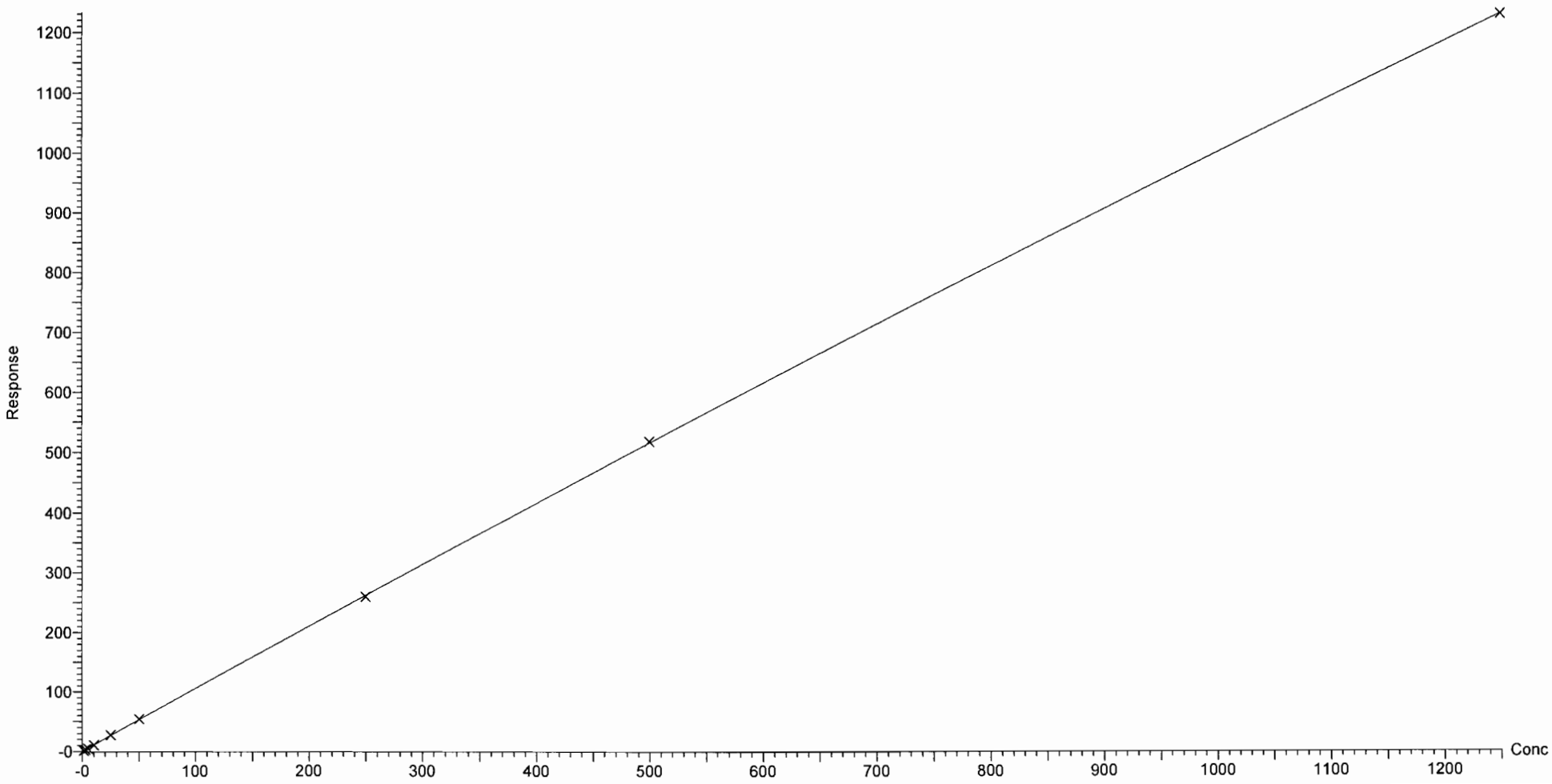
Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999606
Calibration curve: 0.000220373 * x^2 + 1.26264 * x + 0.112888
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

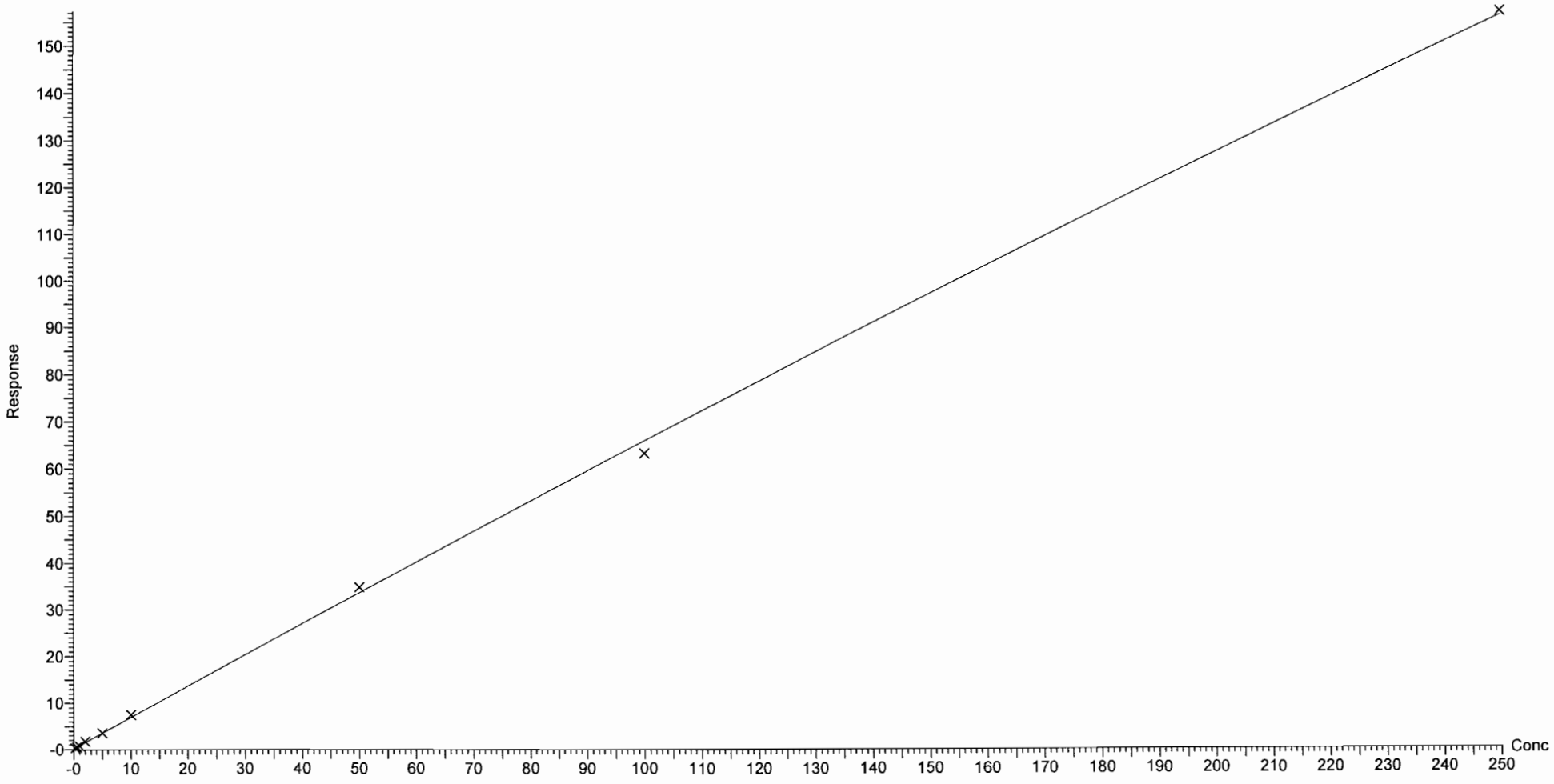
Compound name: N-EtFOSA
Coefficient of Determination: R^2 = 0.999948
Calibration curve: -6.29233e-005 * x^2 + 1.06447 * x + 0.0967019
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

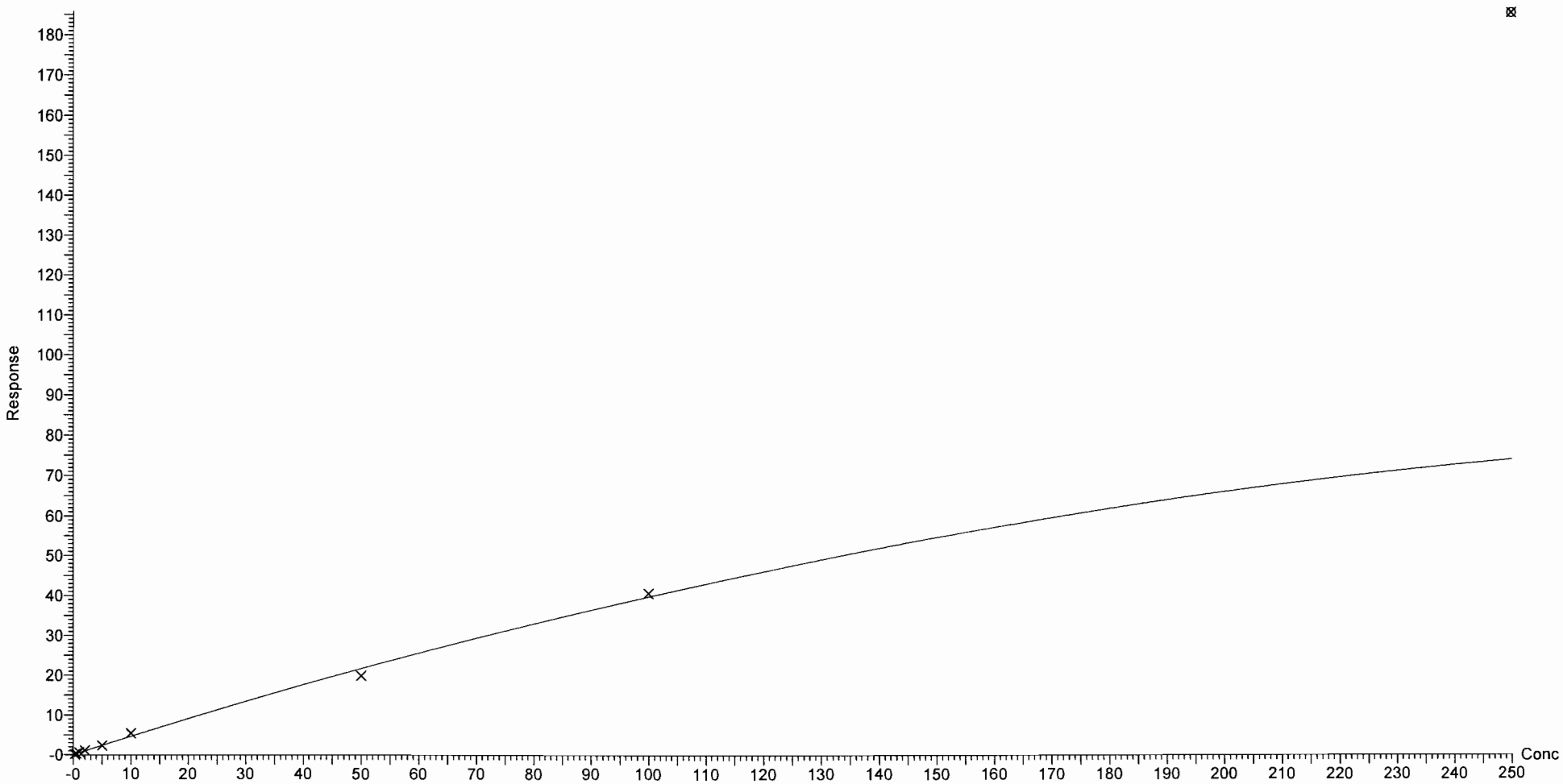
Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999012
Calibration curve: -0.000221098 * x^2 + 0.680841 * x + 0.134112
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

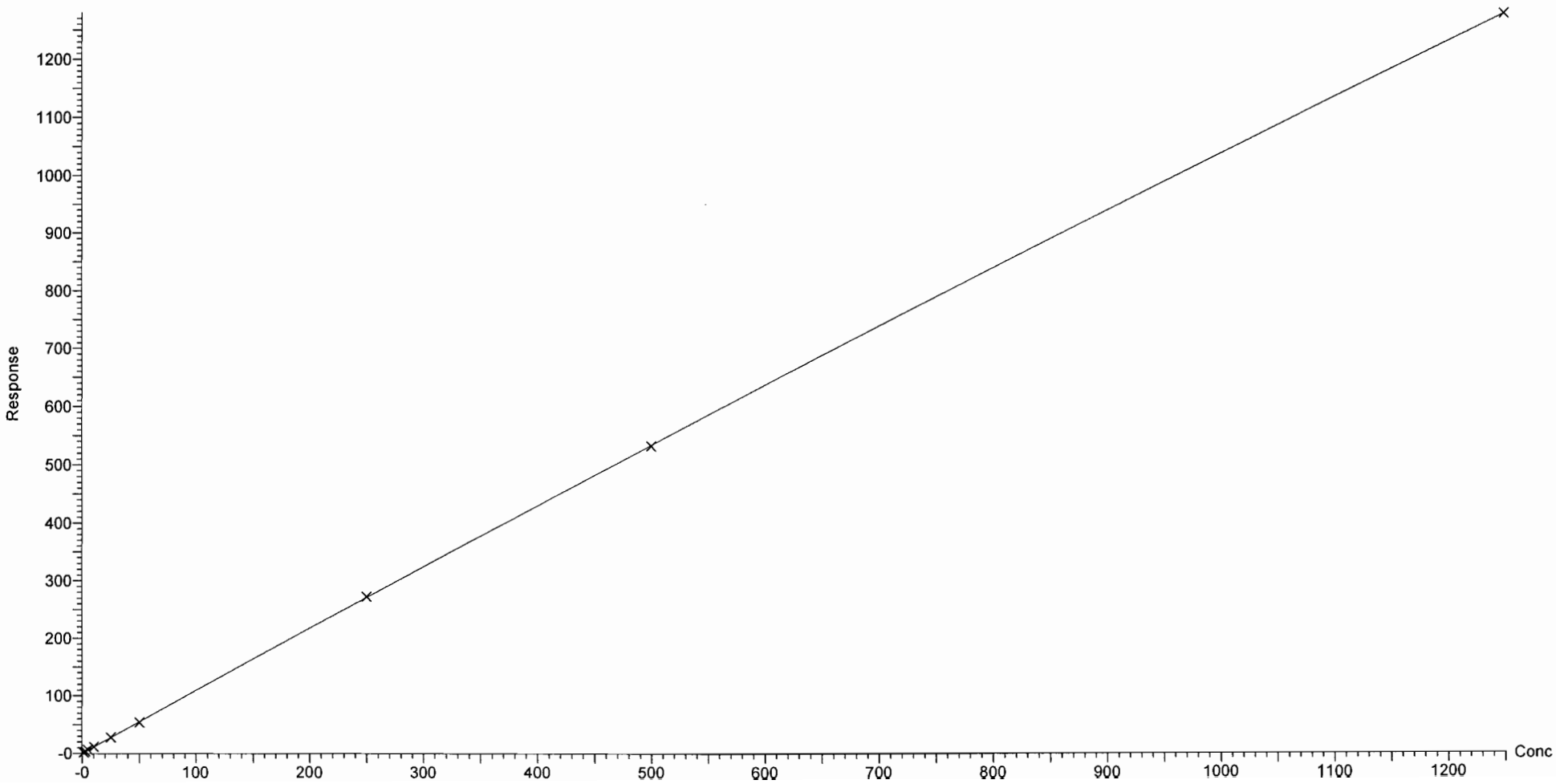
Compound name: PFODA
Coefficient of Determination: R^2 = 0.994227
Calibration curve: -0.000680261 * x^2 + 0.466108 * x + 0.0499317
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:05:05 Pacific Daylight Time

Compound name: N-MeFOSE
Coefficient of Determination: R^2 = 0.999893
Calibration curve: -6.04358e-005 * x^2 + 1.09873 * x + 0.0948849
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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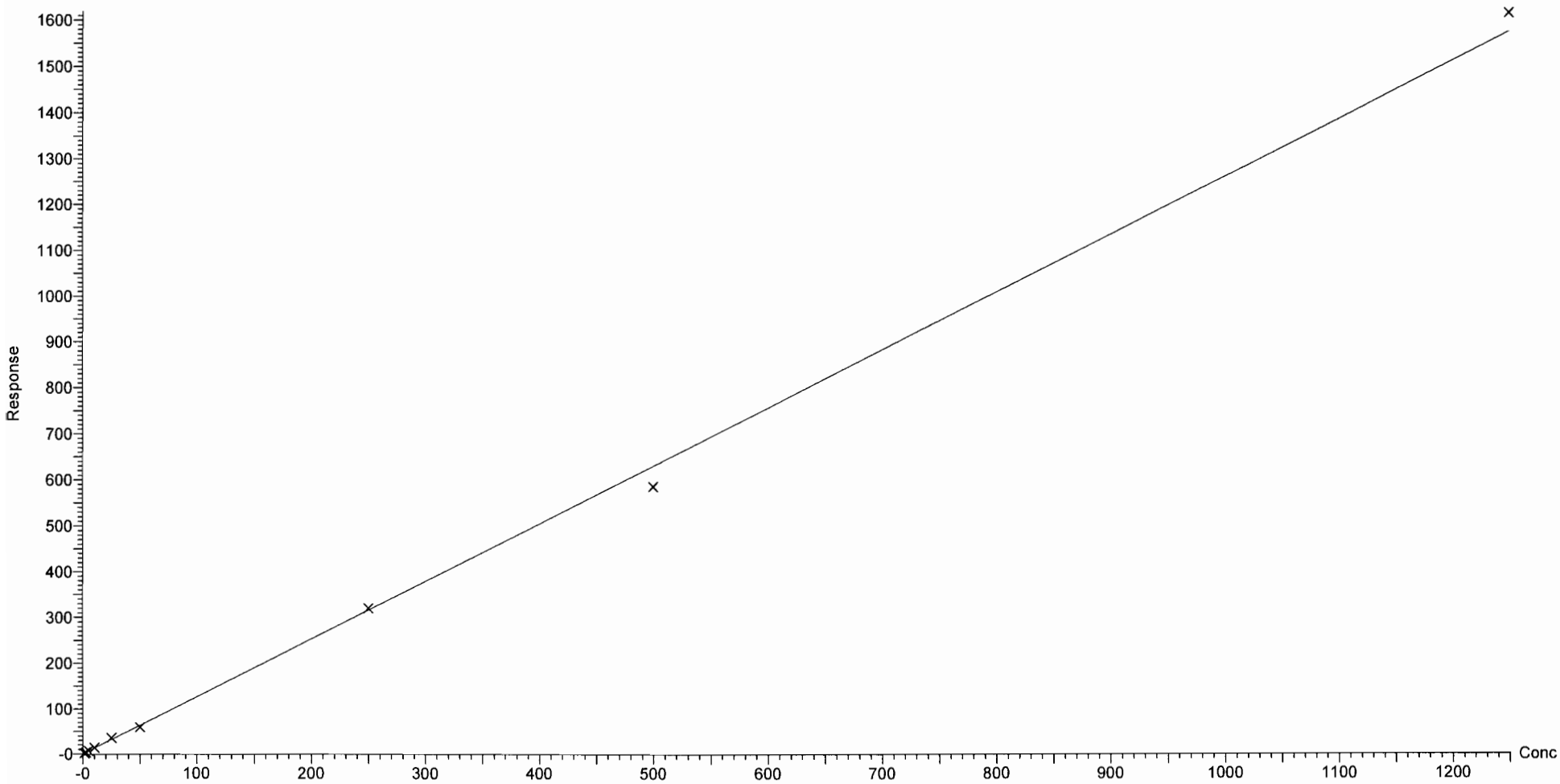
Compound name: N-EtFOSE
Correlation coefficient: r = 0.999010, r^2 = 0.998022
Calibration curve: 1.26218 * x + 0.389501
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory

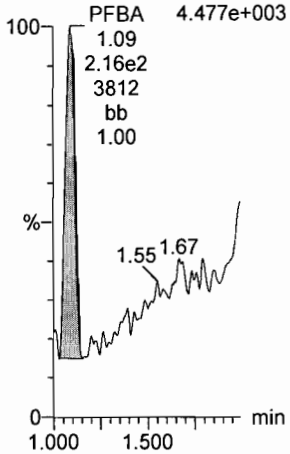
Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

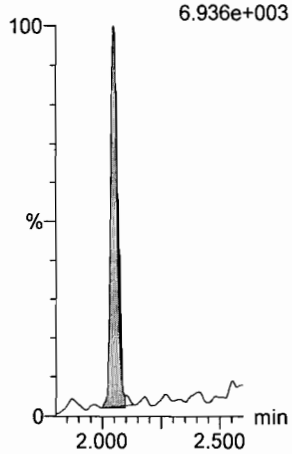
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 12:46:03

Name: 171101M2_2, Date: 01-Nov-2017, Time: 14:55:39, ID: ST171101M2-1 PFC CS-2 17J2705, Description: PFC CS-2 17J2705

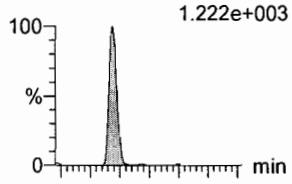
PFBA
F1:MRM of 1 channel,ES-
213.0 > 168.8
4.477e+003



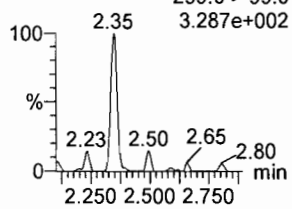
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
6.936e+003



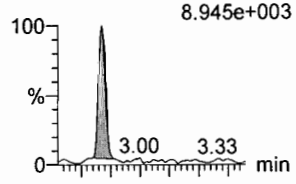
PFBS
F6:MRM of 2 channels,ES-
299.0 > 79.7
1.222e+003



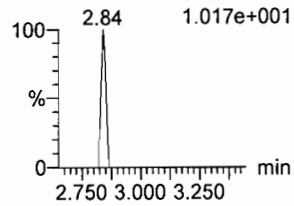
F6:MRM of 2 channels,ES-
299.0 > 99.0
3.287e+002



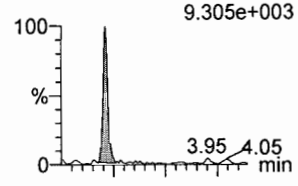
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
8.945e+003



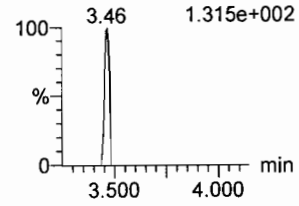
F8:MRM of 2 channels,ES-
313.2 > 119
1.017e+001



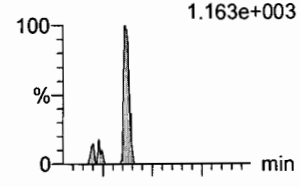
PFHpA
F13:MRM of 2 channels,ES-
363.0 > 318.9
9.305e+003



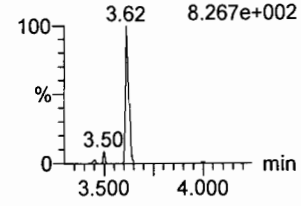
F13:MRM of 2 channels,ES-
363.0 > 169.0
1.315e+002



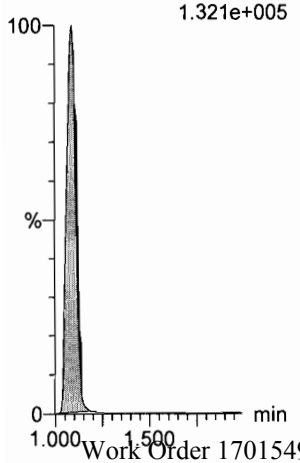
L-PFHxS
F15:MRM of 2 channels,ES-
398.9 > 79.6
1.163e+003



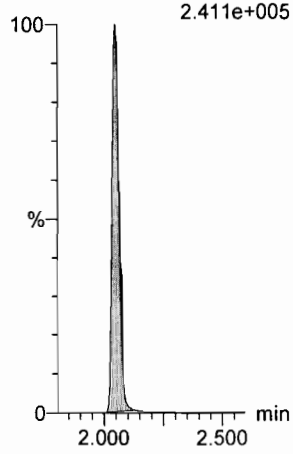
F15:MRM of 2 channels,ES-
398.9 > 99.0
8.267e+002



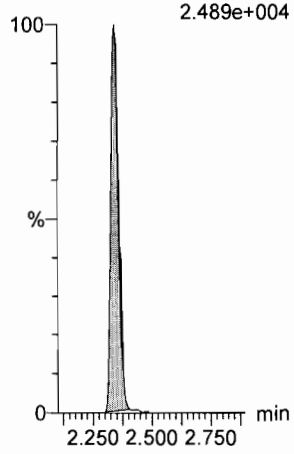
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
1.321e+005



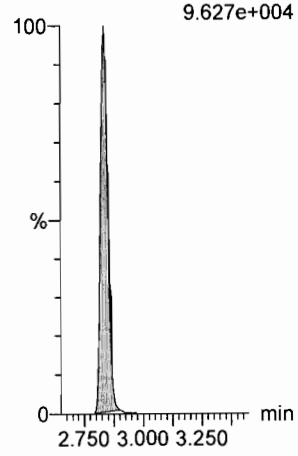
13C3-PFPeA
F5:MRM of 1 channel,ES-
266. > 221.8
2.411e+005



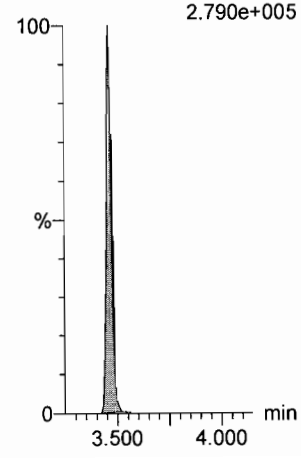
13C3-PFBS
F7:MRM of 1 channel,ES-
302. > 98.8
2.489e+004



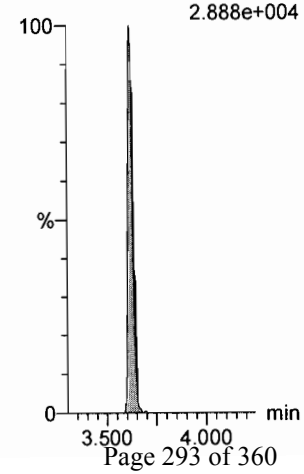
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
9.627e+004



13C4-PFHpA
F14:MRM of 1 channel,ES-
367.2 > 321.8
2.790e+005



18O2-PFHxS
F17:MRM of 1 channel,ES-
403.0 > 102.6
2.888e+004



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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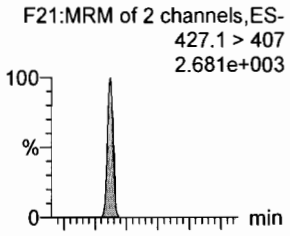
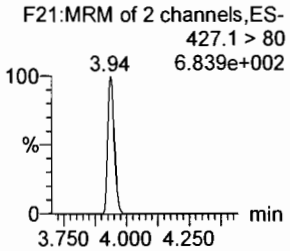
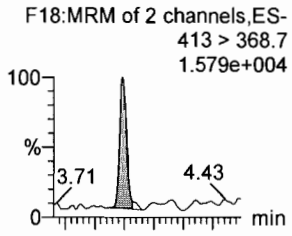
Name: 171101M2_2, Date: 01-Nov-2017, Time: 14:55:39, ID: ST171101M2-1 PFC CS-2 17J2705, Description: PFC CS-2 17J2705

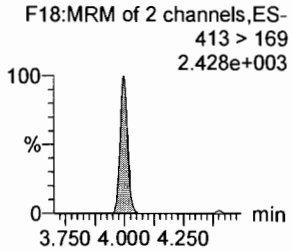
6:2 FTS



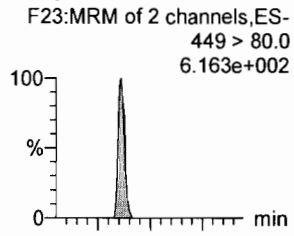


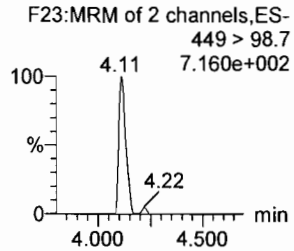
L-PFOA



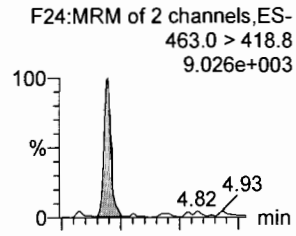


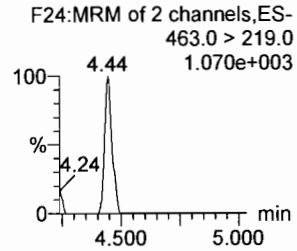
PFHpS



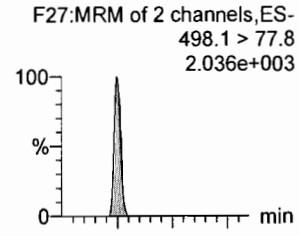


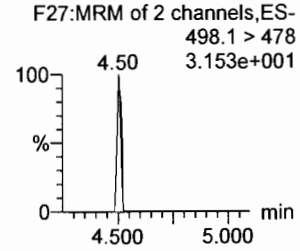
PFNA



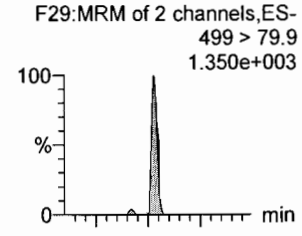


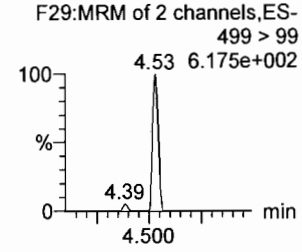
PFOSA



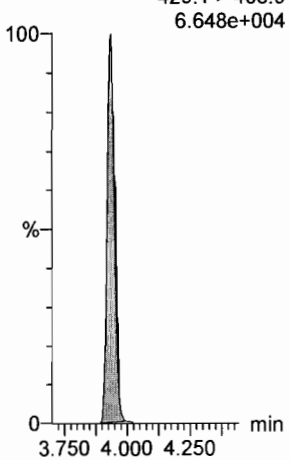


L-PFOS

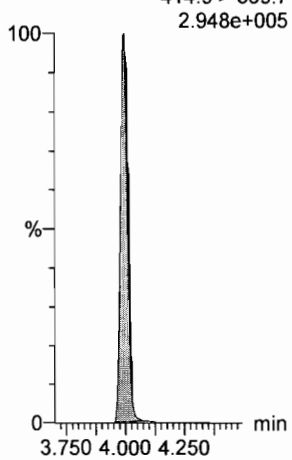




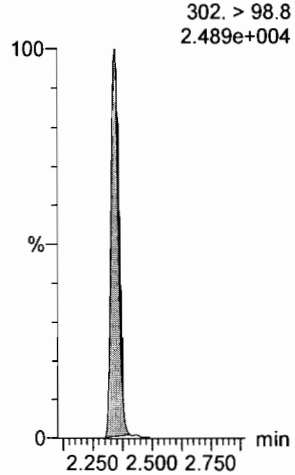
13C2-6:2 FTS



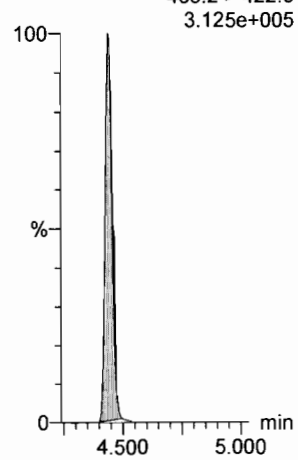
13C2-PFOA



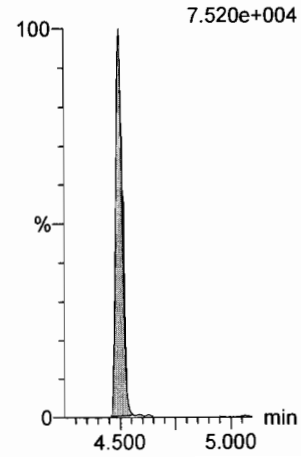
13C3-PFBS



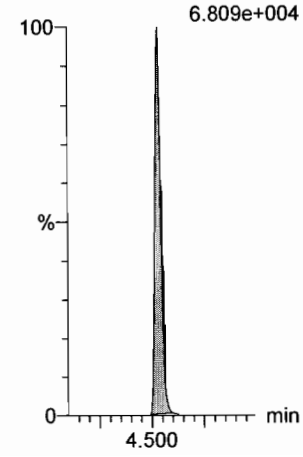
13C5-PFNA



13C8-PFOSA



13C8-PFOS



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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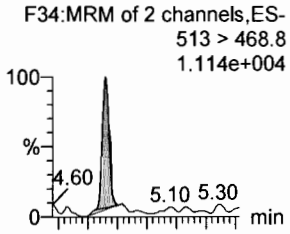
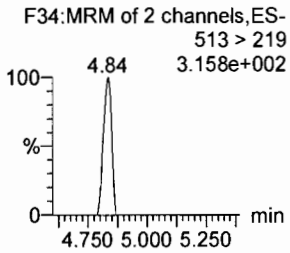
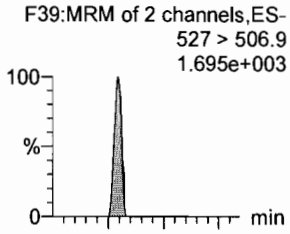
Name: 171101M2_2, Date: 01-Nov-2017, Time: 14:55:39, ID: ST171101M2-1 PFC CS-2 17J2705, Description: PFC CS-2 17J2705

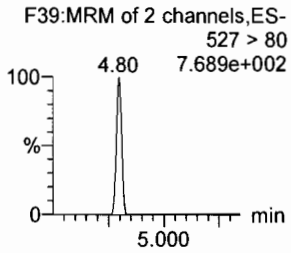
PFDA





8:2 FTS





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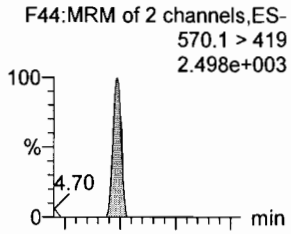

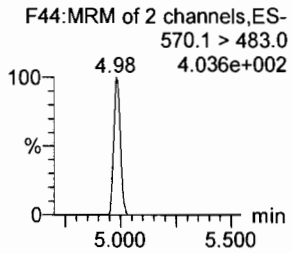

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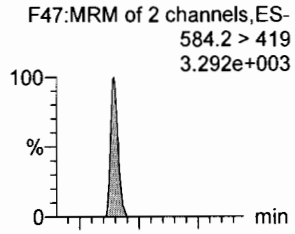
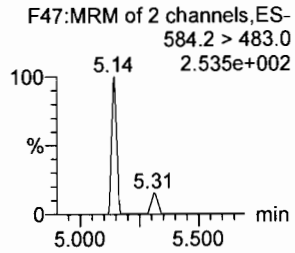
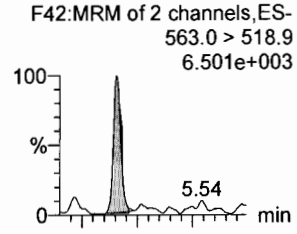
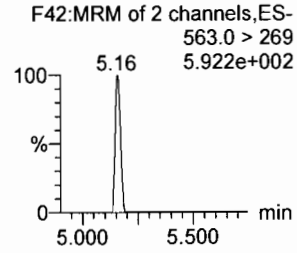


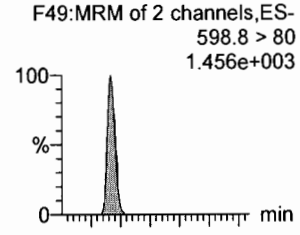


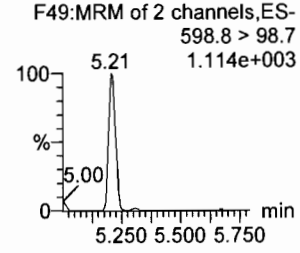
PFUdA



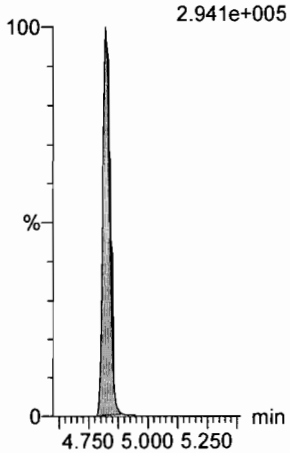


PFDS

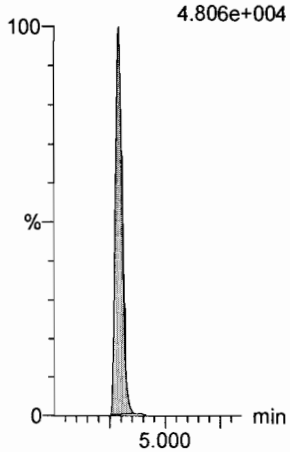




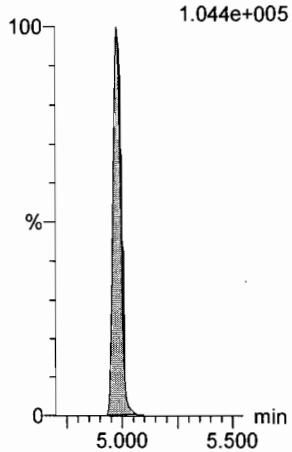
13C2-PFDA



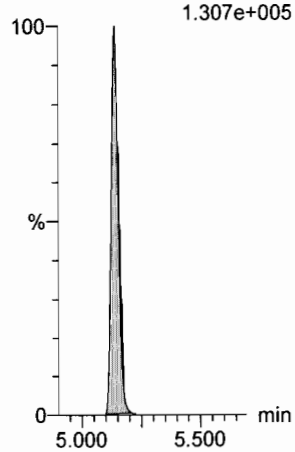
13C2-8:2 FTS



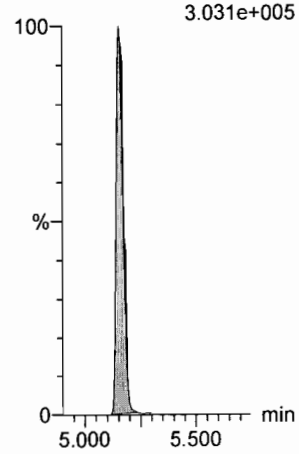
d3-N-MeFOSAA



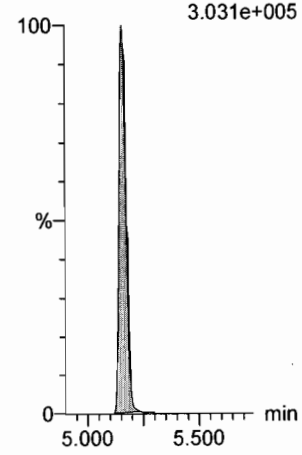
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



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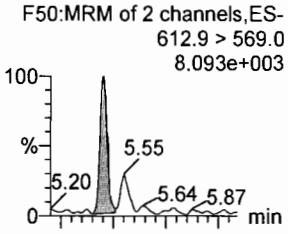
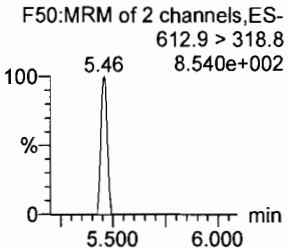
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

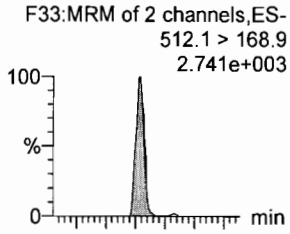
Name: 171101M2_2, Date: 01-Nov-2017, Time: 14:55:39, ID: ST171101M2-1 PFC CS-2 17J2705, Description: PFC CS-2 17J2705

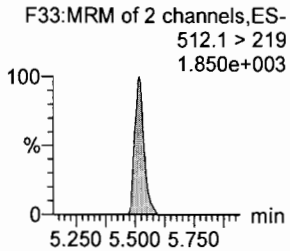
PFDoA





N-MeFOSA





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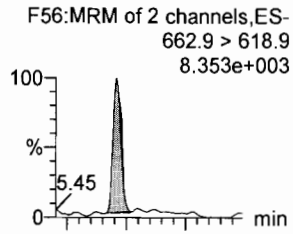
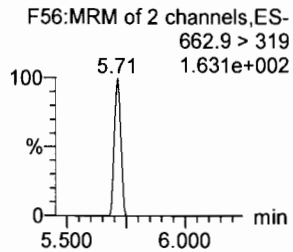
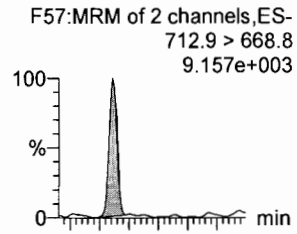
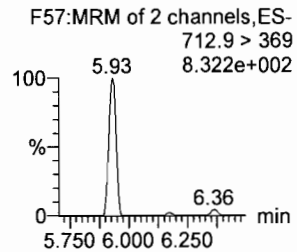




PFTeDA





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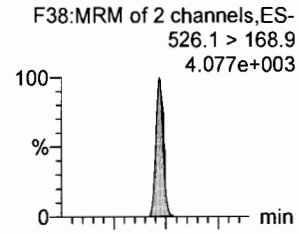
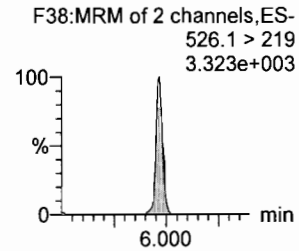
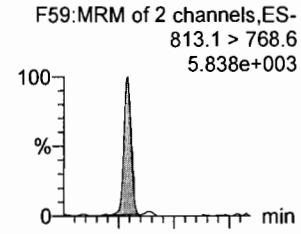
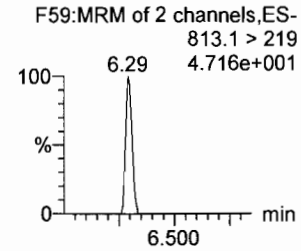


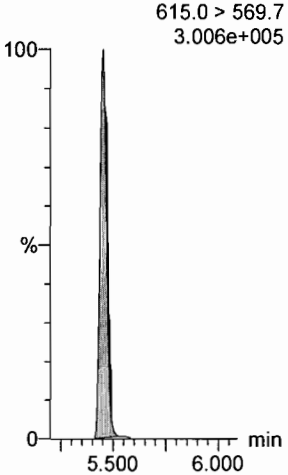


PFHxDA

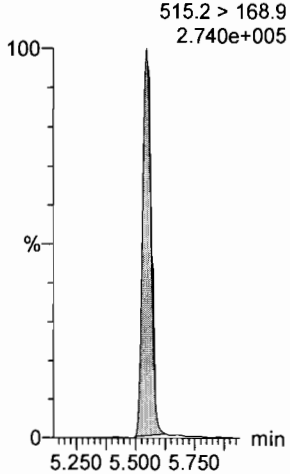




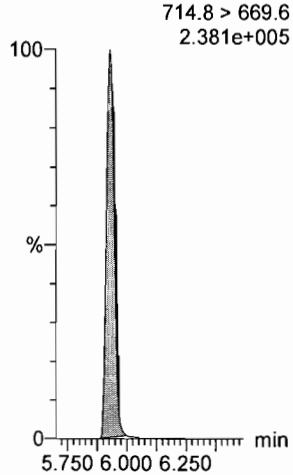
13C2-PFDoA



d3-N-MeFOSA



13C2-PFTeDA



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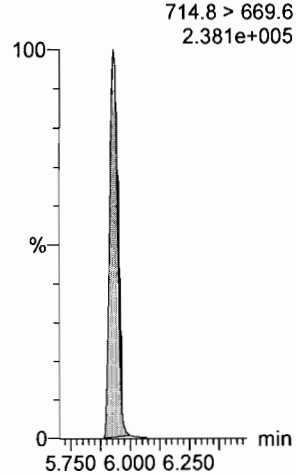
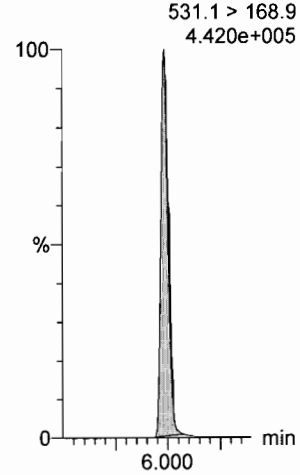
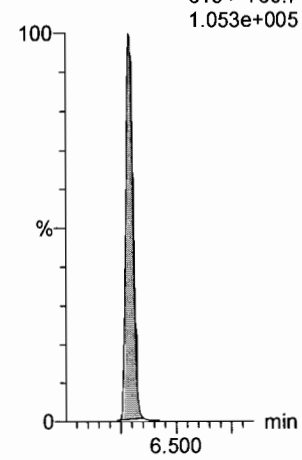


d5-N-ETFOSA



13C2-PFHxDA



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Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_2, Date: 01-Nov-2017, Time: 14:55:39, ID: ST171101M2-1 PFC CS-2 17J2705, Description: PFC CS-2 17J2705

PFODA
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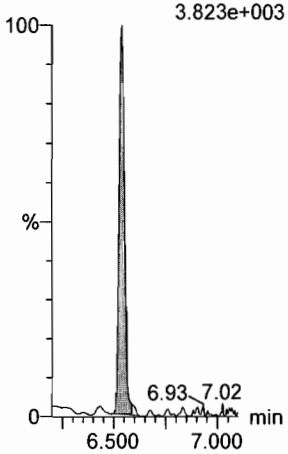
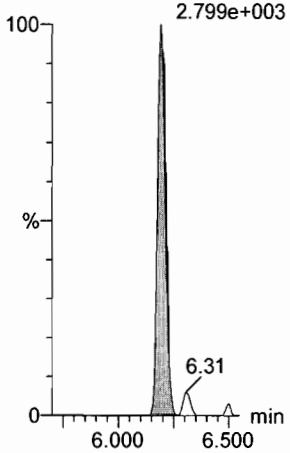
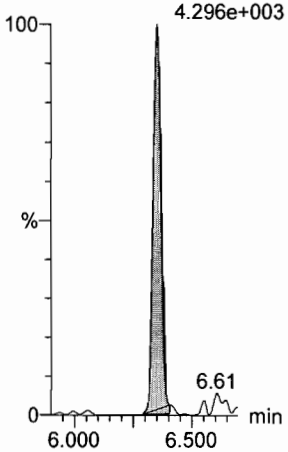
913.1 > 868.8
3.823e+003



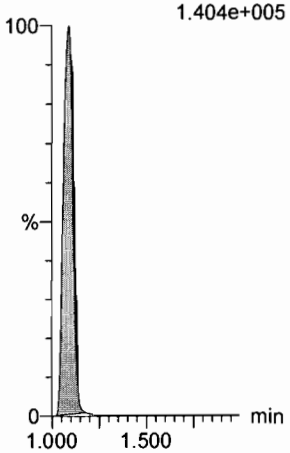
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
2.799e+003



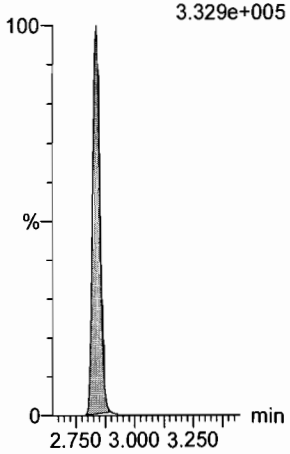
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
4.296e+003



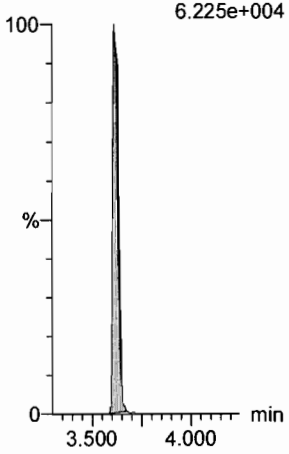
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.404e+005



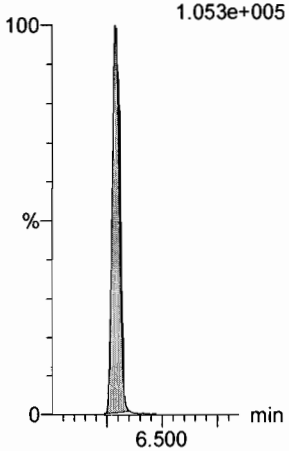
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.329e+005



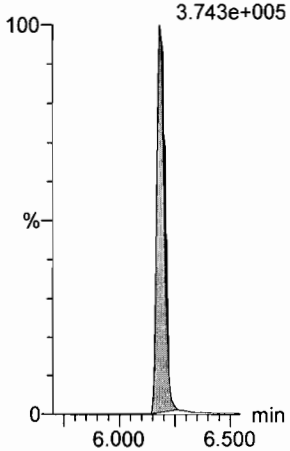
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
6.225e+004



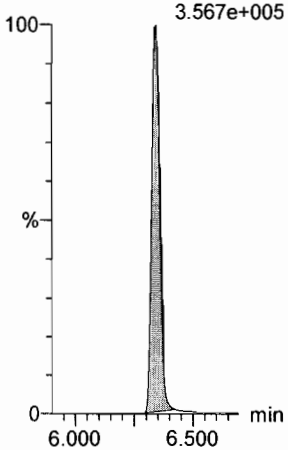
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.053e+005



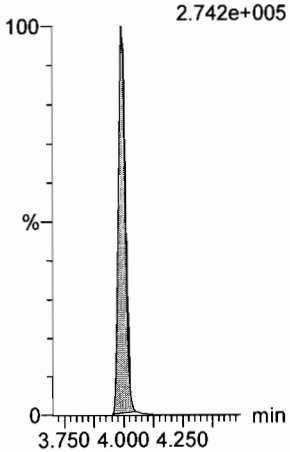
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.743e+005



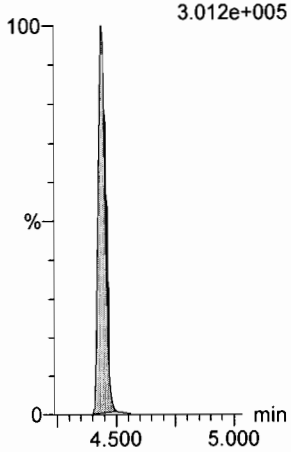
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.567e+005



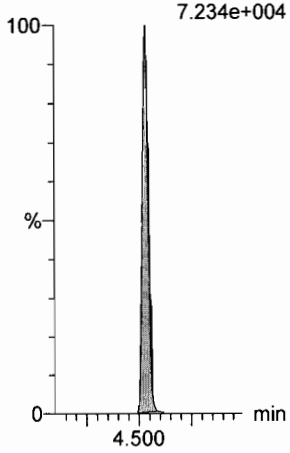
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.742e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
3.012e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
7.234e+004



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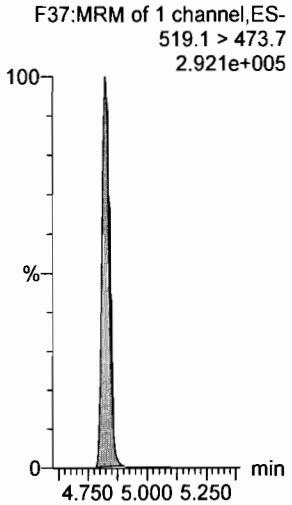
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_2, Date: 01-Nov-2017, Time: 14:55:39, ID: ST171101M2-1 PFC CS-2 17J2705, Description: PFC CS-2 17J2705

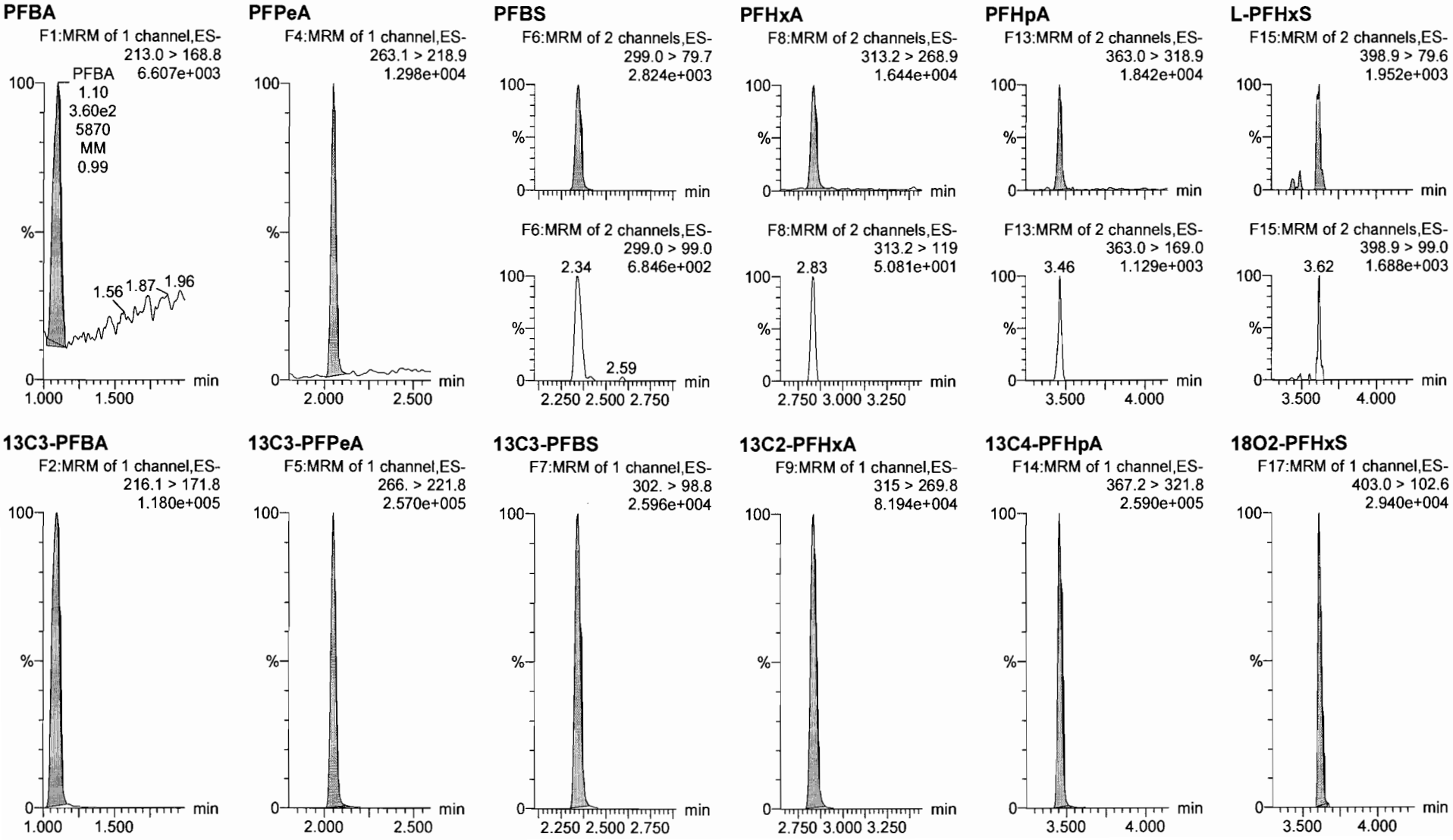
13C6-PFDA



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_3, Date: 01-Nov-2017, Time: 15:06:49, ID: ST171101M2-2 PFC CS-1 17J2706, Description: PFC CS-1 17J2706



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Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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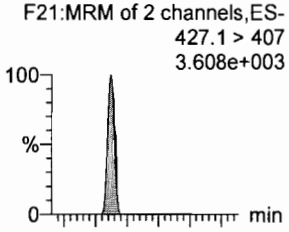
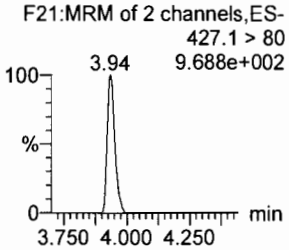
Name: 171101M2_3, Date: 01-Nov-2017, Time: 15:06:49, ID: ST171101M2-2 PFC CS-1 17J2706, Description: PFC CS-1 17J2706

6:2 FTS





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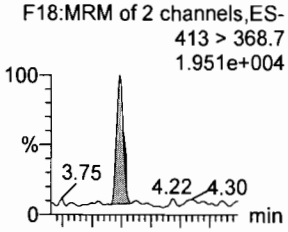

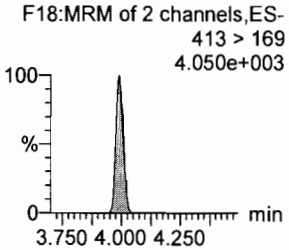

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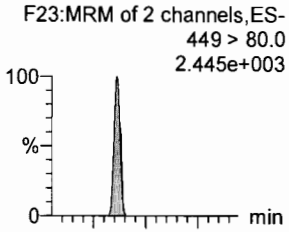

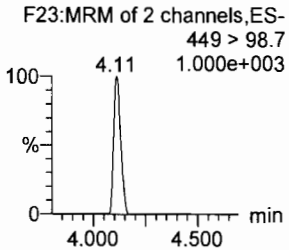

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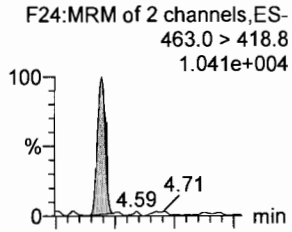

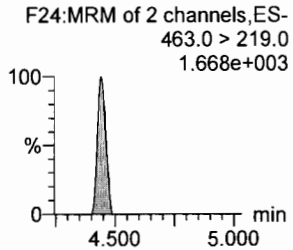

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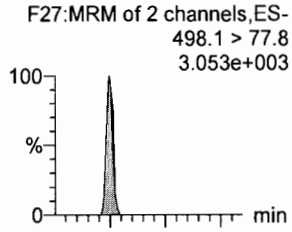

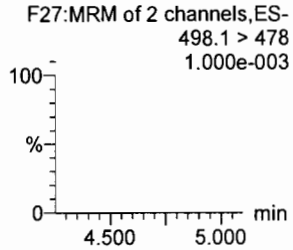

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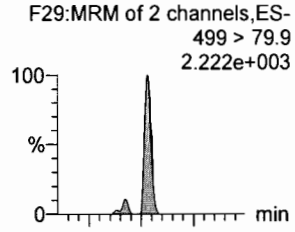

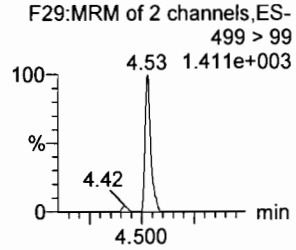

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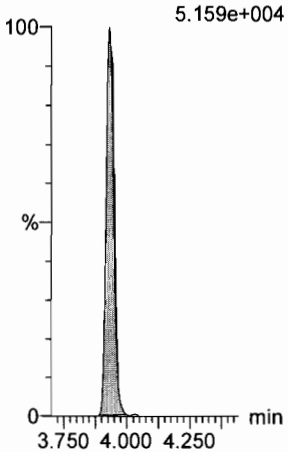

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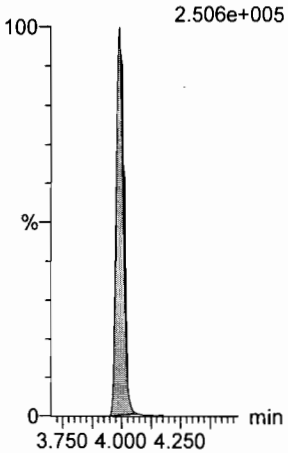

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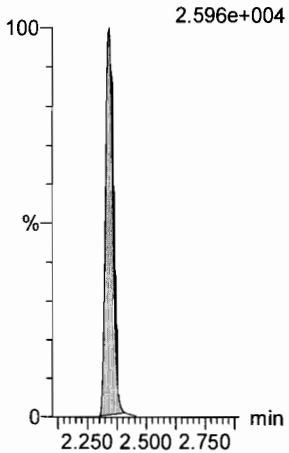

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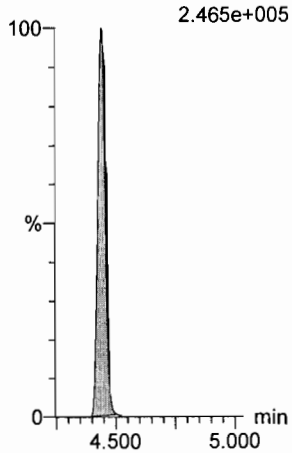

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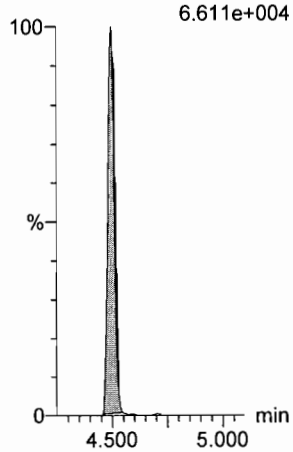

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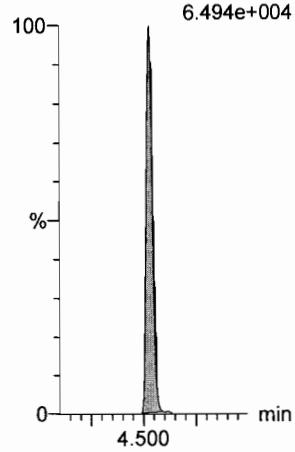

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Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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Name: 171101M2_3, Date: 01-Nov-2017, Time: 15:06:49, ID: ST171101M2-2 PFC CS-1 17J2706, Description: PFC CS-1 17J2706

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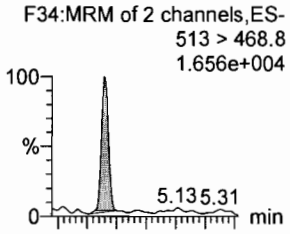
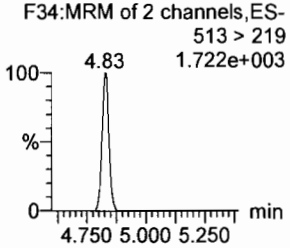
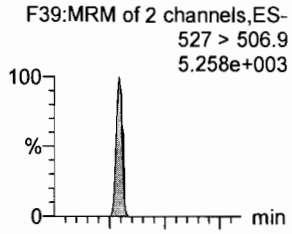
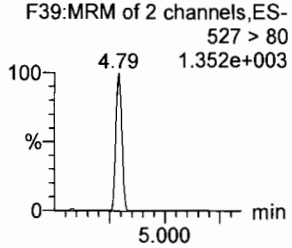




8:2 FTS





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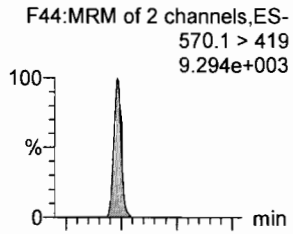

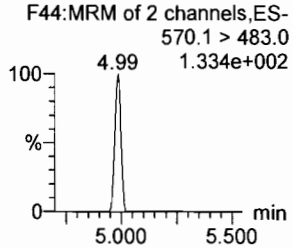

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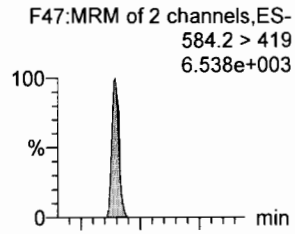

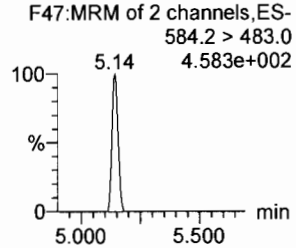

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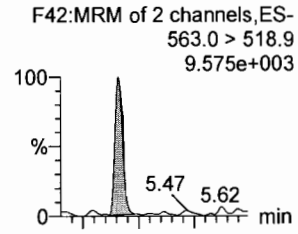

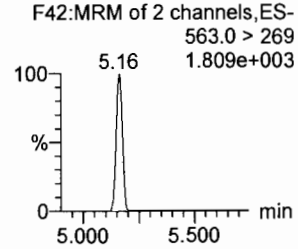

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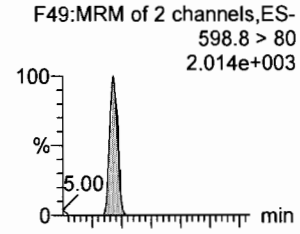

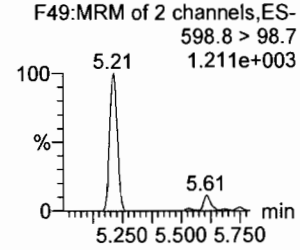

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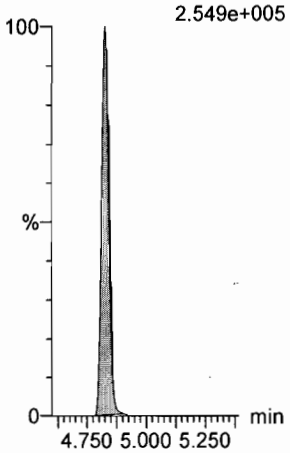

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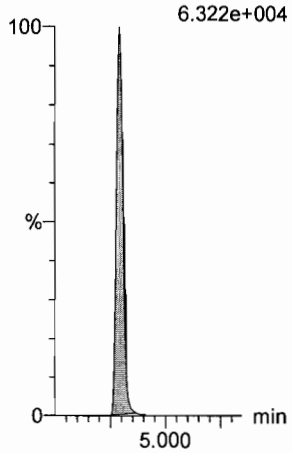

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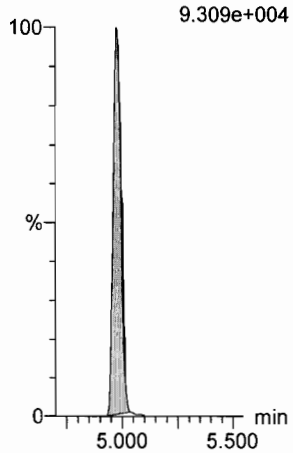

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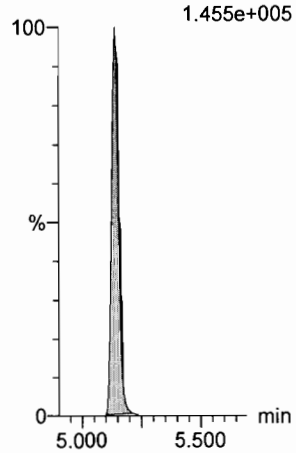

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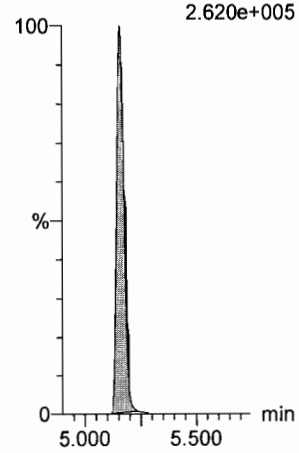

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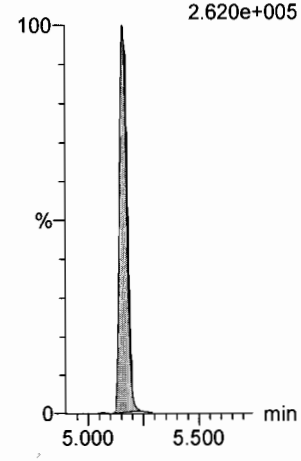

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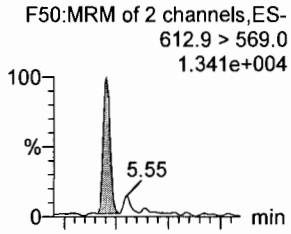

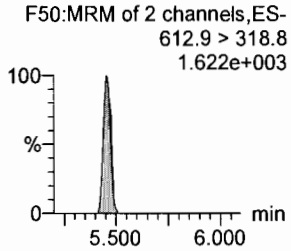

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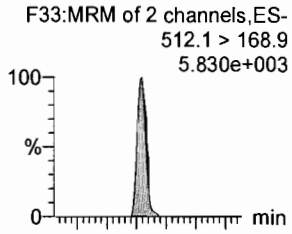

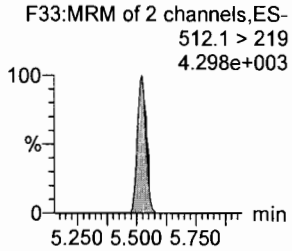

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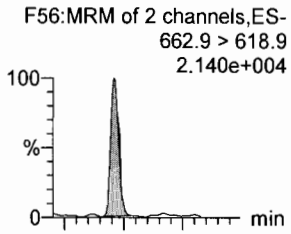

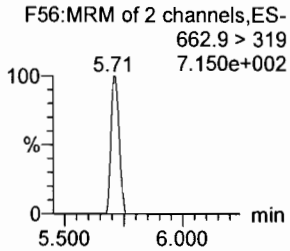

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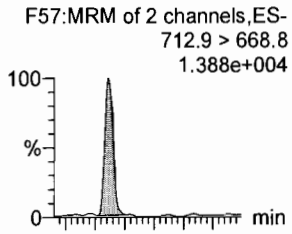

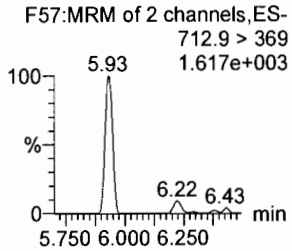

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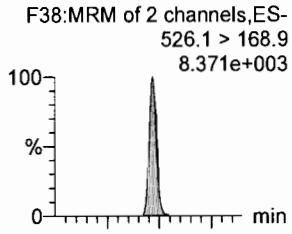

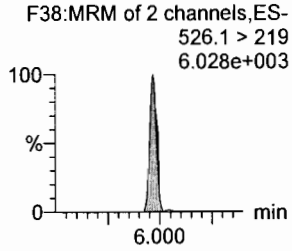

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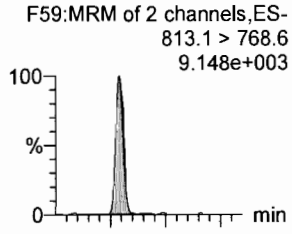

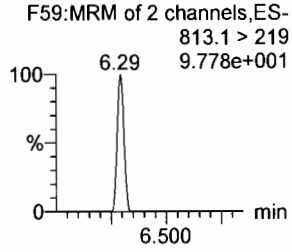

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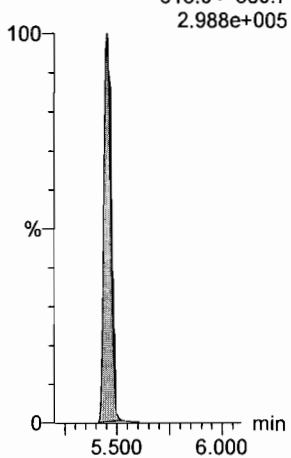

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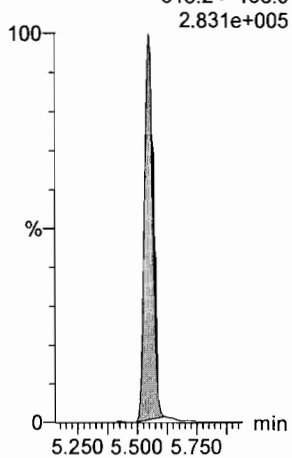

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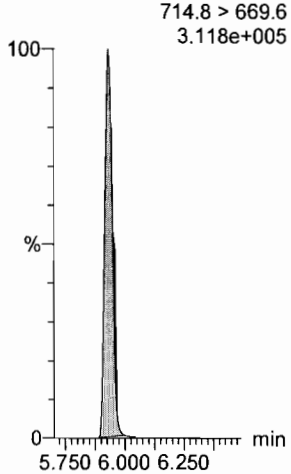
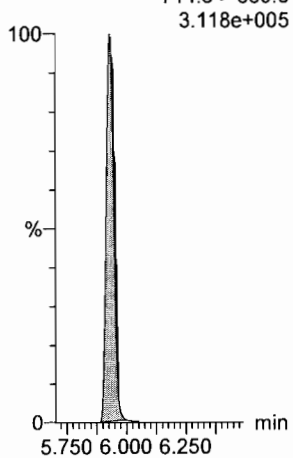
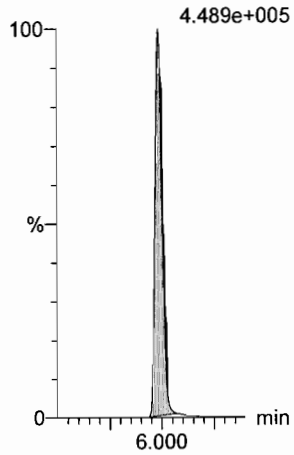


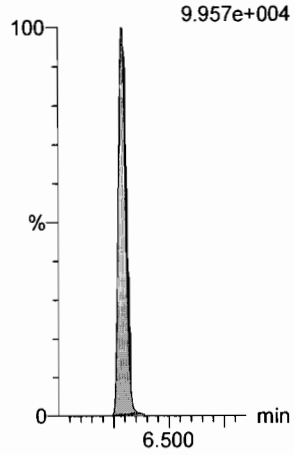
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA

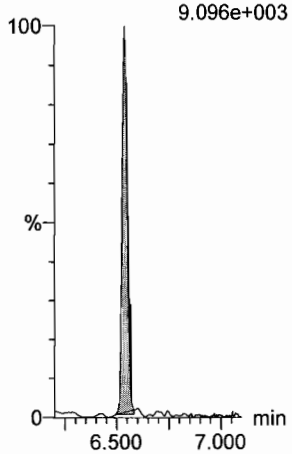


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

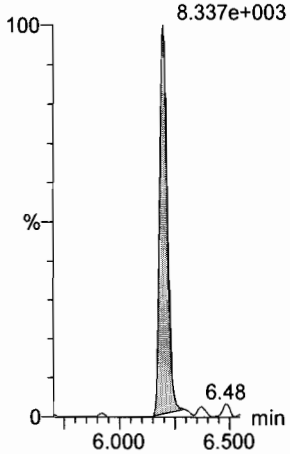
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_3, Date: 01-Nov-2017, Time: 15:06:49, ID: ST171101M2-2 PFC CS-1 17J2706, Description: PFC CS-1 17J2706

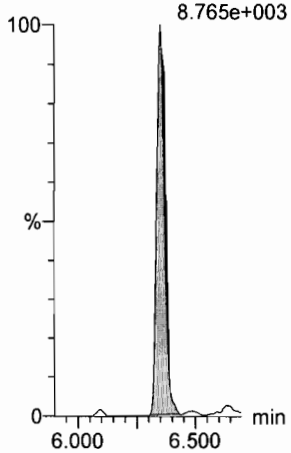
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
9.096e+003



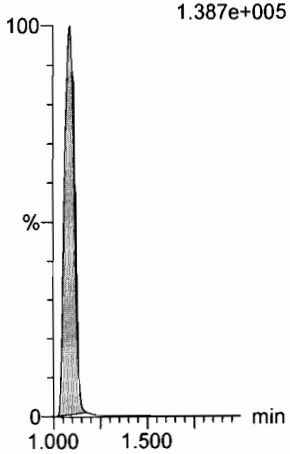
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
8.337e+003



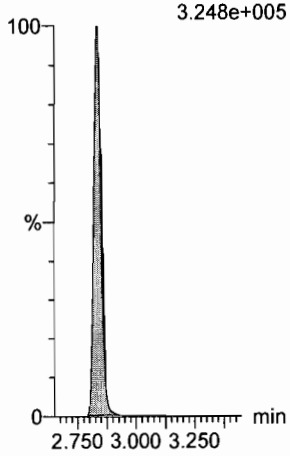
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
8.765e+003



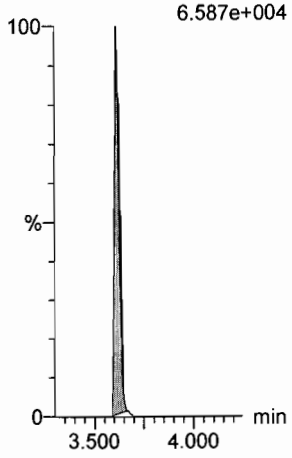
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.387e+005



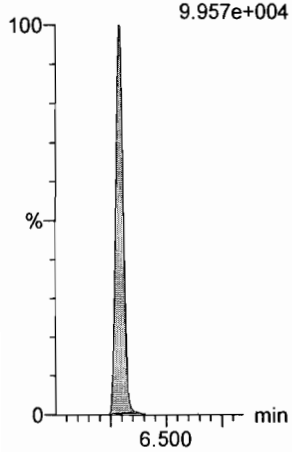
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.248e+005



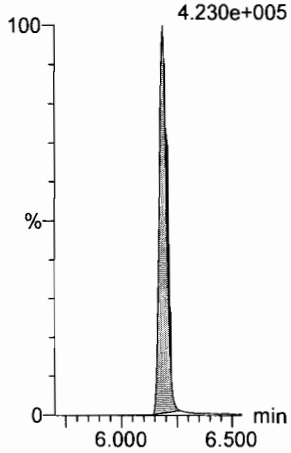
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
6.587e+004



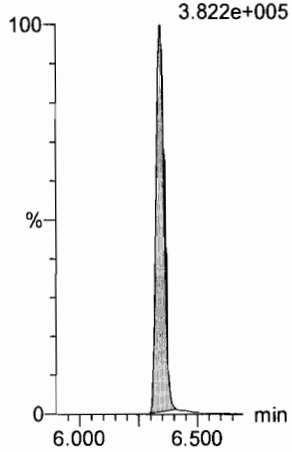
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
9.957e+004



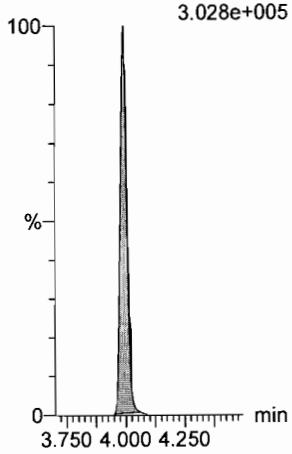
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
4.230e+005



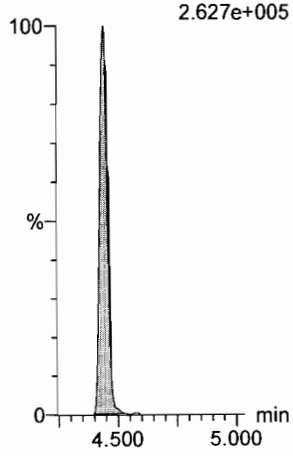
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.822e+005



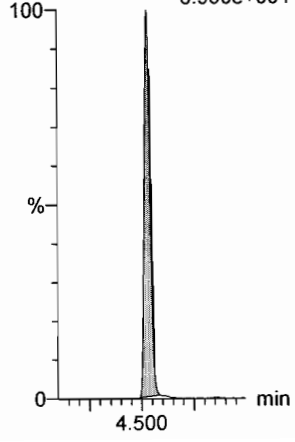
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
3.028e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.627e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.950e+004

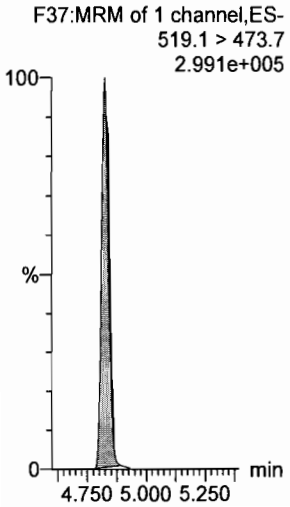


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_3, Date: 01-Nov-2017, Time: 15:06:49, ID: ST171101M2-2 PFC CS-1 17J2706, Description: PFC CS-1 17J2706

13C6-PFDA

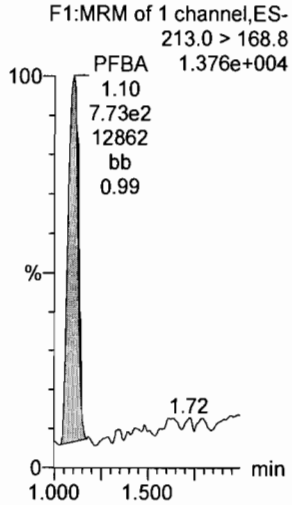


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_4, Date: 01-Nov-2017, Time: 15:18:12, ID: ST171101M2-3 PFC CS0 17J2707, Description: PFC CS0 17J2707

PFBA



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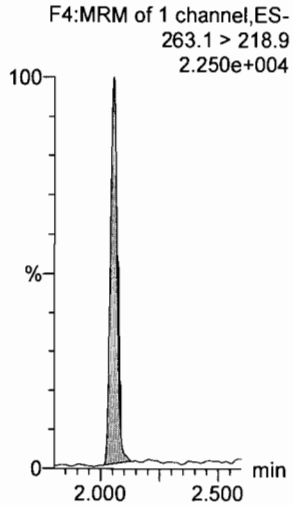
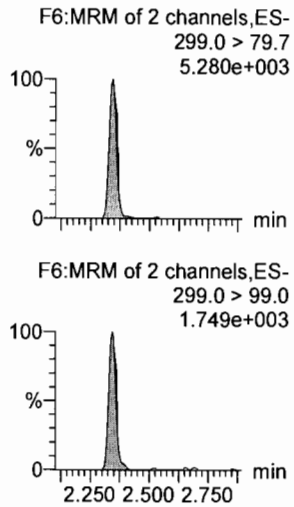
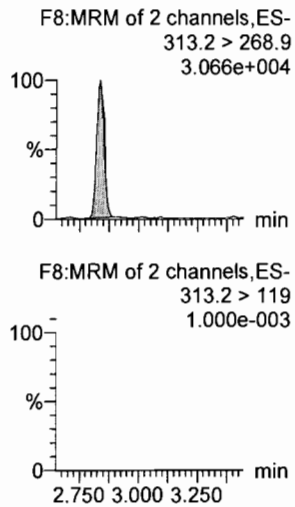


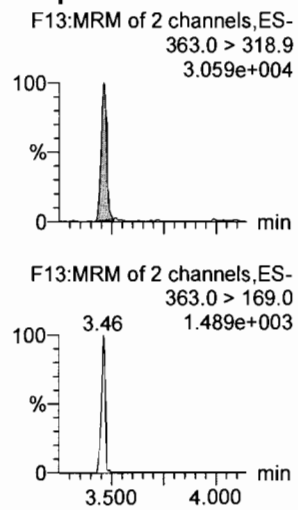
PFBS



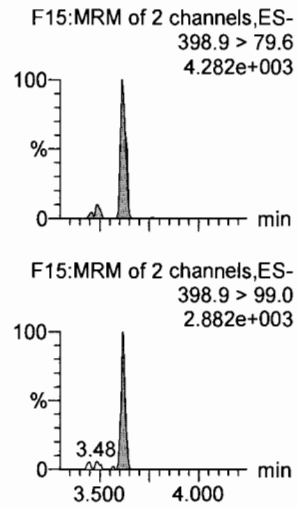
PFHxA



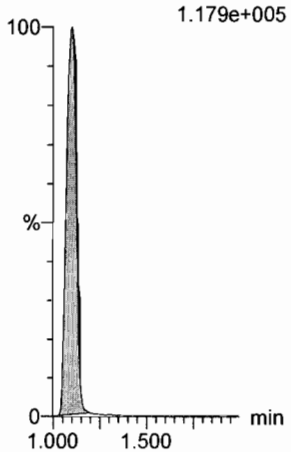
PFHpA



L-PFHxS



13C3-PFBA



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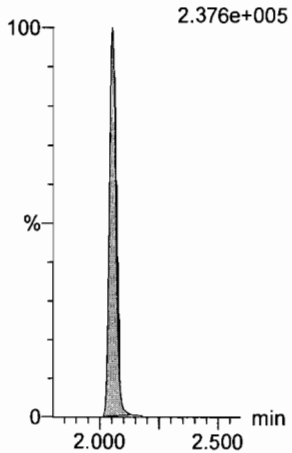
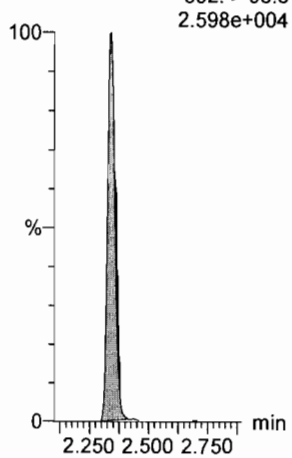
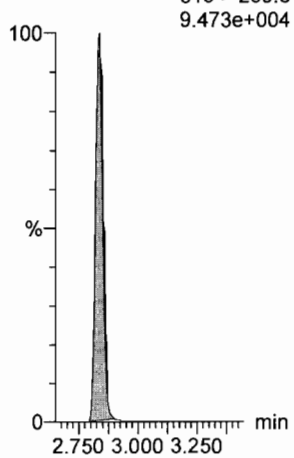


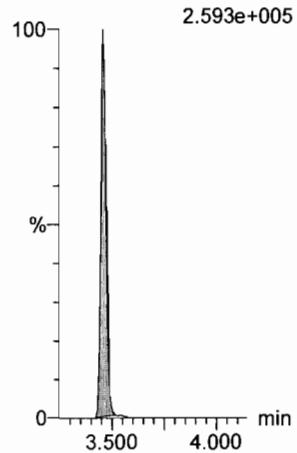
13C3-PFBS



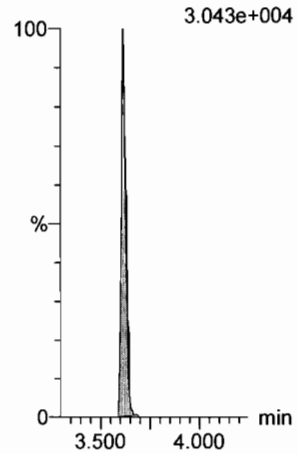
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

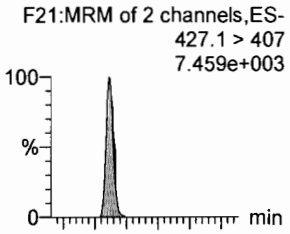


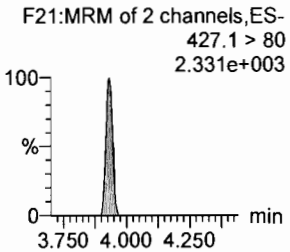
Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

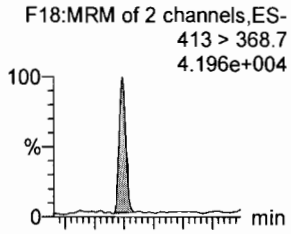
Name: 171101M2_4, Date: 01-Nov-2017, Time: 15:18:12, ID: ST171101M2-3 PFC CS0 17J2707, Description: PFC CS0 17J2707

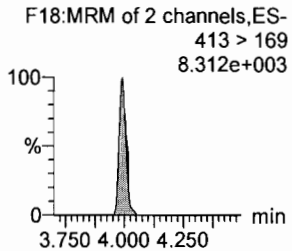
6:2 FTS



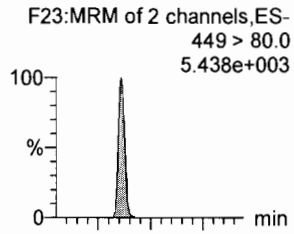


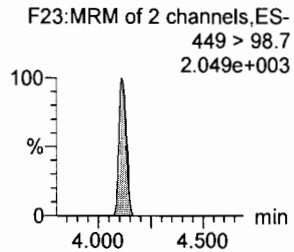
L-PFOA



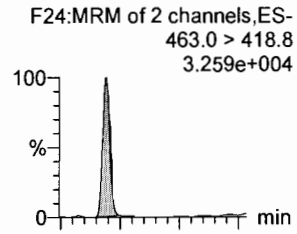


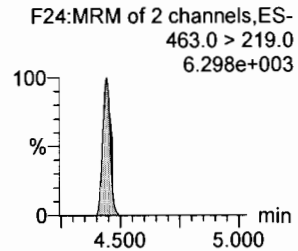
PFHpS



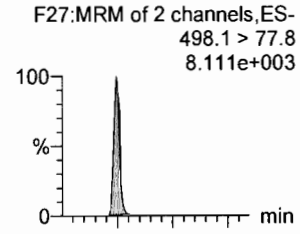


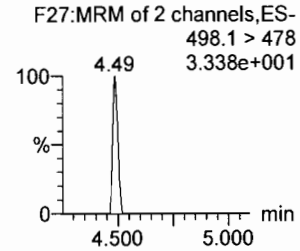
PFNA



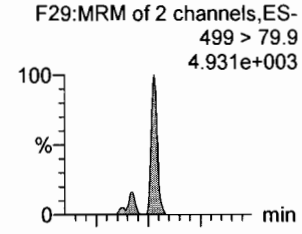


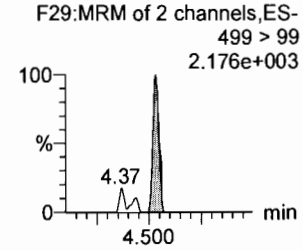
PFOSA



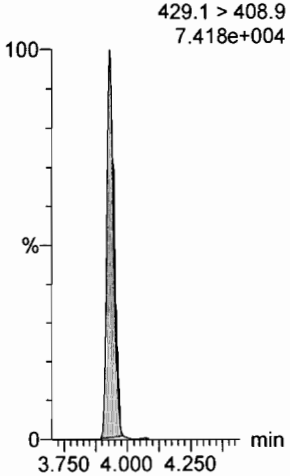


L-PFOS

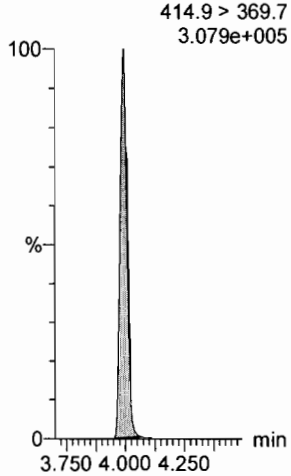




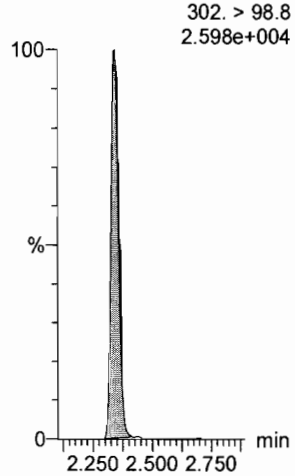
13C2-6:2 FTS



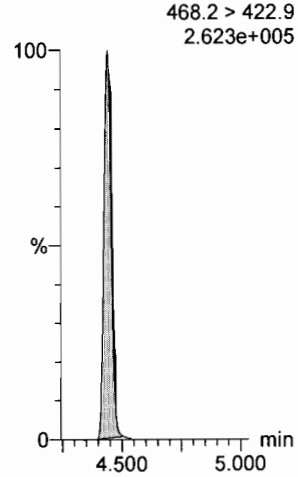
13C2-PFOA



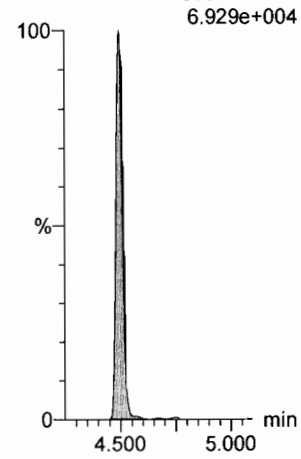
13C3-PFBS



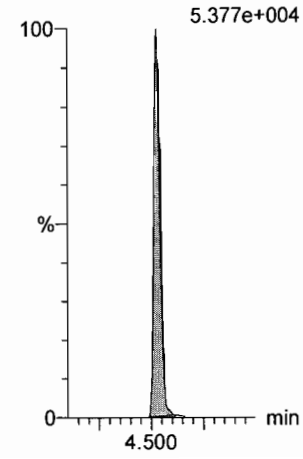
13C5-PFNA



13C8-PFOSA



13C8-PFOS

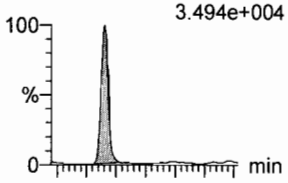


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

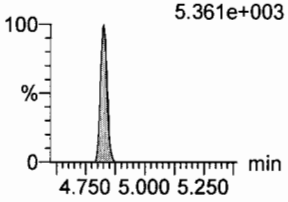
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_4, Date: 01-Nov-2017, Time: 15:18:12, ID: ST171101M2-3 PFC CS0 17J2707, Description: PFC CS0 17J2707

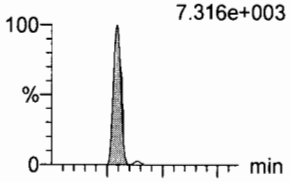
PFDA
F34:MRM of 2 channels,ES-
513 > 468.8
3.494e+004



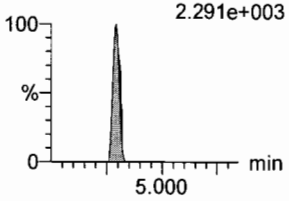
F34:MRM of 2 channels,ES-
513 > 219
5.361e+003



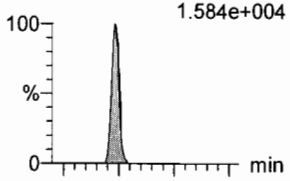
8:2 FTS
F39:MRM of 2 channels,ES-
527 > 506.9
7.316e+003



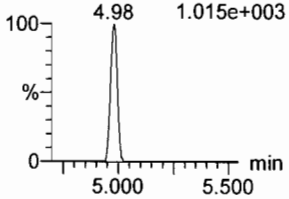
F39:MRM of 2 channels,ES-
527 > 80
2.291e+003



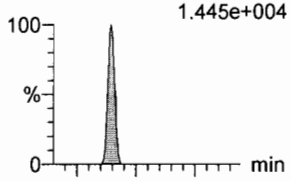
N-MeFOSAA
F44:MRM of 2 channels,ES-
570.1 > 419
1.584e+004



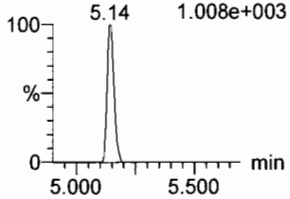
F44:MRM of 2 channels,ES-
570.1 > 483.0
4.98 1.015e+003



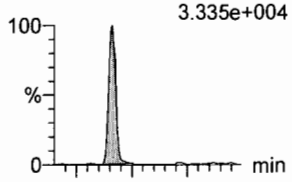
N-EtFOSAA
F47:MRM of 2 channels,ES-
584.2 > 419
1.445e+004



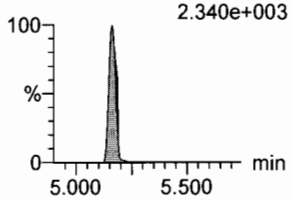
F47:MRM of 2 channels,ES-
584.2 > 483.0
5.14 1.008e+003



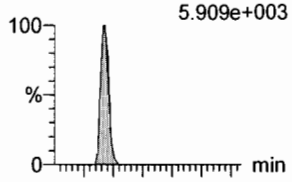
PFUdA
F42:MRM of 2 channels,ES-
563.0 > 518.9
3.335e+004



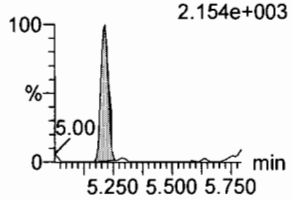
F42:MRM of 2 channels,ES-
563.0 > 269
2.340e+003



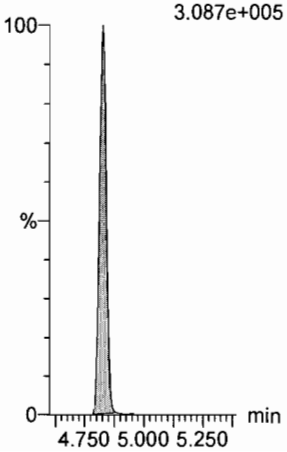
PFDS
F49:MRM of 2 channels,ES-
598.8 > 80
5.909e+003



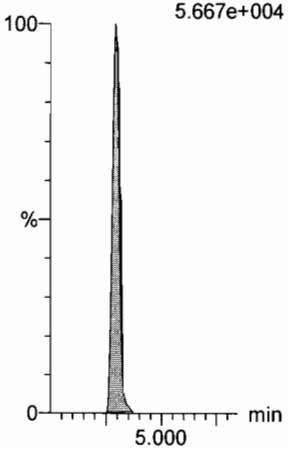
F49:MRM of 2 channels,ES-
598.8 > 98.7
2.154e+003



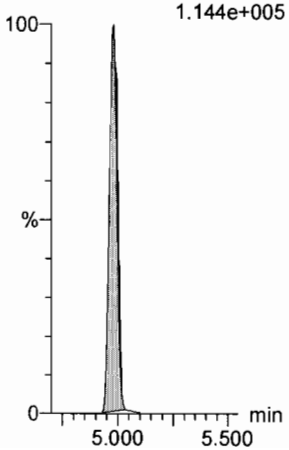
13C2-PFDA
F35:MRM of 1 channel,ES-
515.1 > 469.9
3.087e+005



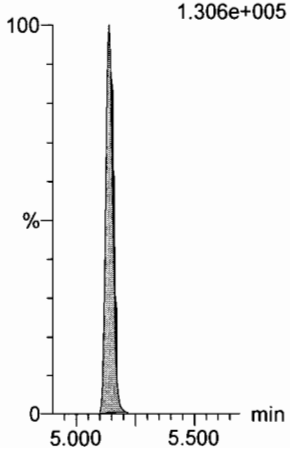
13C2-8:2 FTS
F40:MRM of 1 channel,ES-
529.1 > 508.7
5.667e+004



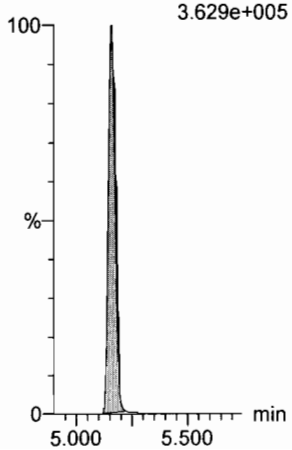
d3-N-MeFOSAA
F46:MRM of 1 channel,ES-
573.3 > 419
1.144e+005



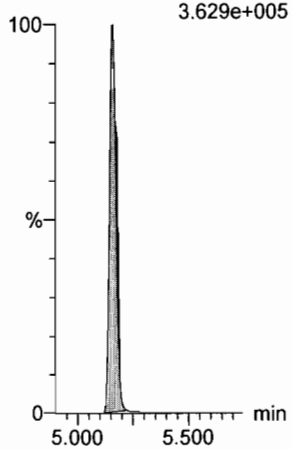
d5-N-EtFOSAA
F48:MRM of 1 channel,ES-
589.3 > 419
1.306e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
3.629e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
3.629e+005

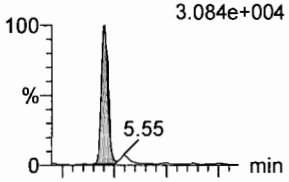


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

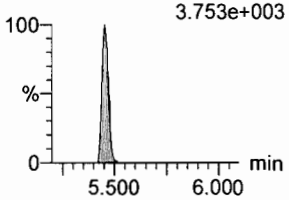
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_4, Date: 01-Nov-2017, Time: 15:18:12, ID: ST171101M2-3 PFC CS0 17J2707, Description: PFC CS0 17J2707

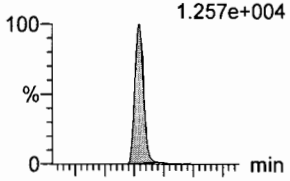
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
3.084e+004



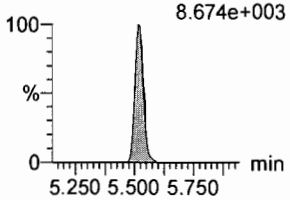
F50:MRM of 2 channels,ES-
612.9 > 318.8
3.753e+003



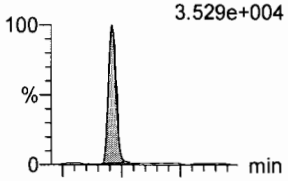
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
1.257e+004



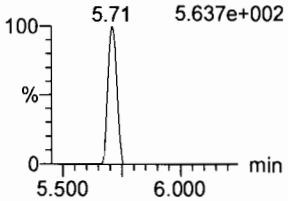
F33:MRM of 2 channels,ES-
512.1 > 219
8.674e+003



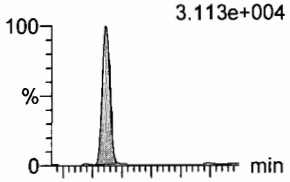
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
3.529e+004



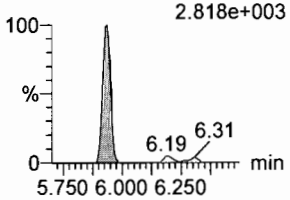
F56:MRM of 2 channels,ES-
662.9 > 319
5.637e+002



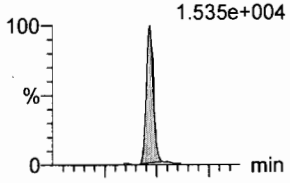
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
3.113e+004



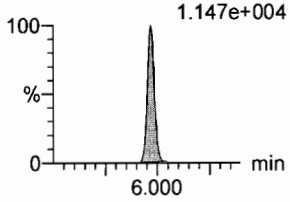
F57:MRM of 2 channels,ES-
712.9 > 369
2.818e+003



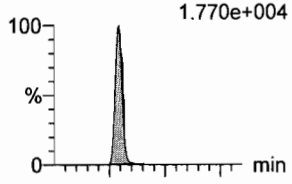
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
1.535e+004



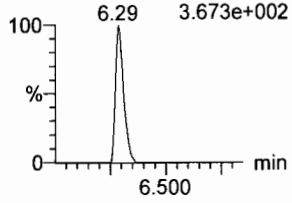
F38:MRM of 2 channels,ES-
526.1 > 219
1.147e+004



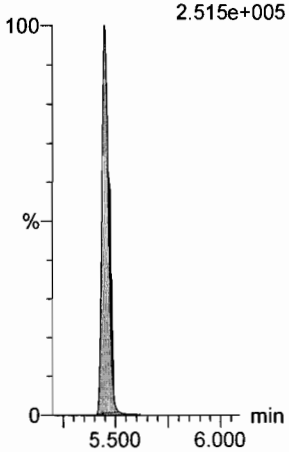
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.770e+004



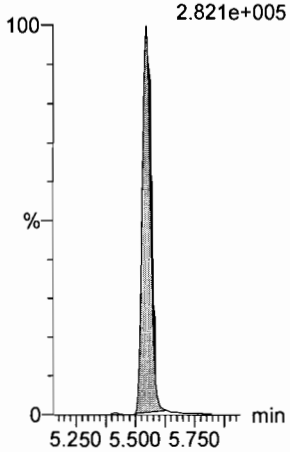
F59:MRM of 2 channels,ES-
813.1 > 219
3.673e+002



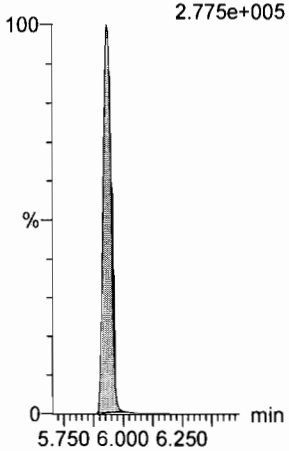
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
2.515e+005



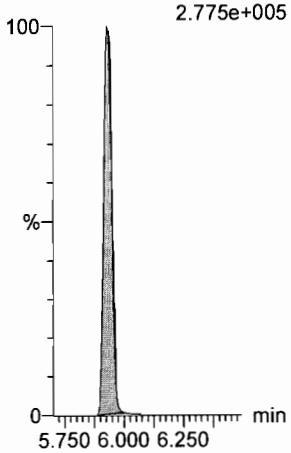
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.821e+005



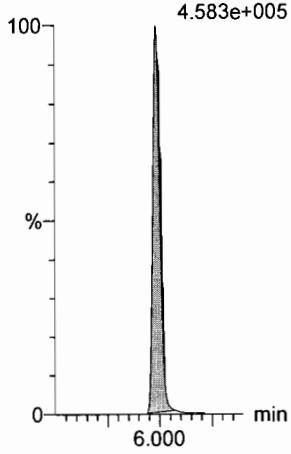
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.775e+005



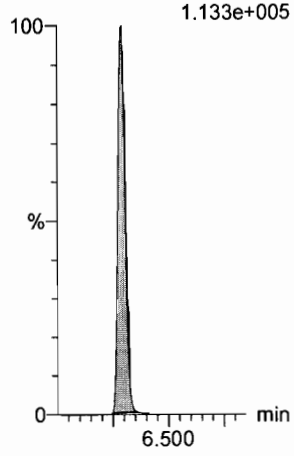
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.775e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.583e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.133e+005

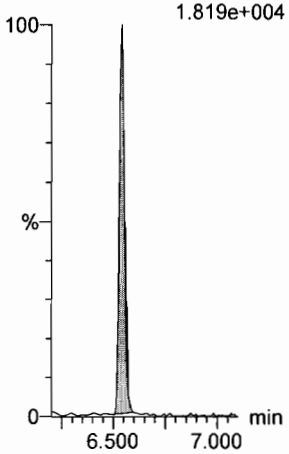


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

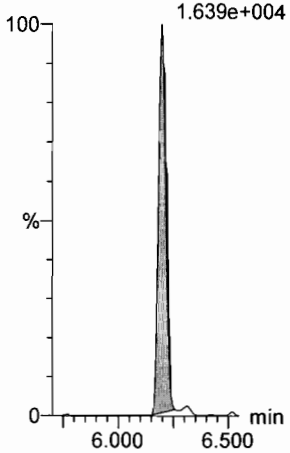
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_4, Date: 01-Nov-2017, Time: 15:18:12, ID: ST171101M2-3 PFC CS0 17J2707, Description: PFC CS0 17J2707

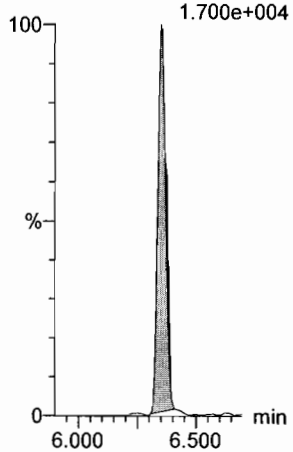
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
1.819e+004



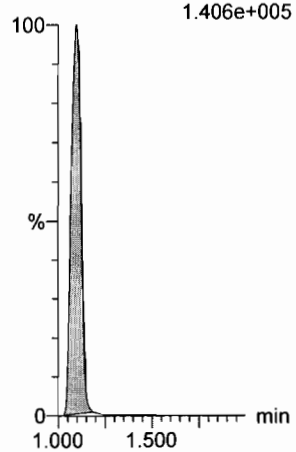
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
1.639e+004



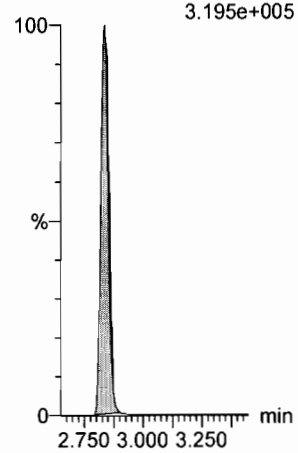
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
1.700e+004



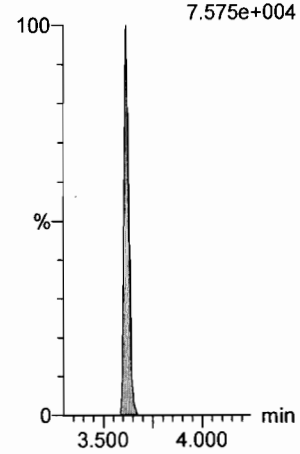
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.406e+005



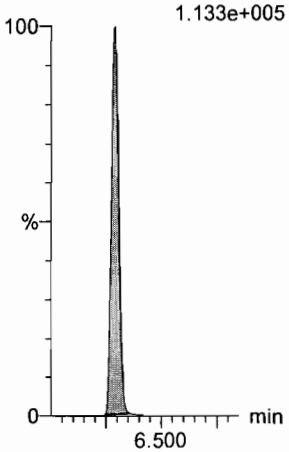
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.195e+005



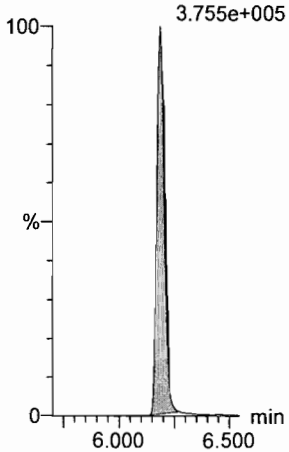
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
7.575e+004



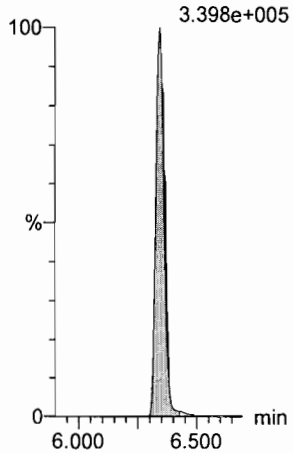
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.133e+005



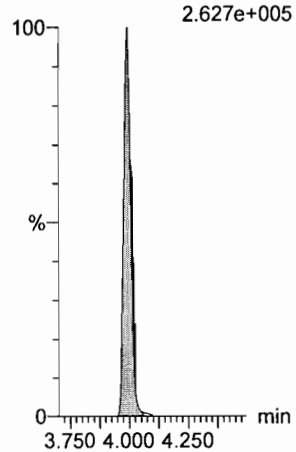
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.755e+005



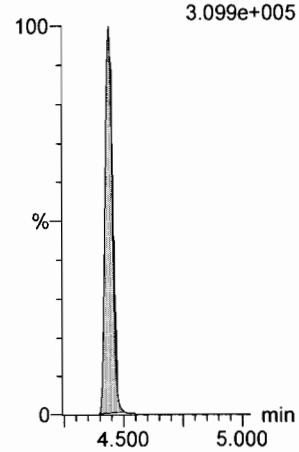
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.398e+005



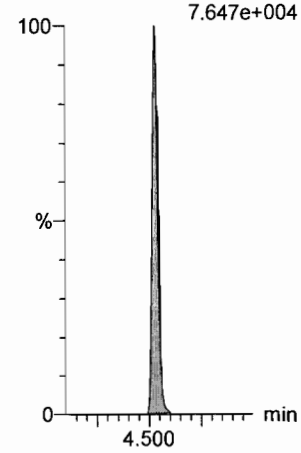
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.627e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
3.099e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
7.647e+004

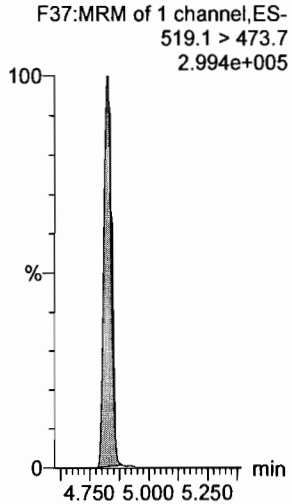


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_4, Date: 01-Nov-2017, Time: 15:18:12, ID: ST171101M2-3 PFC CS0 17J2707, Description: PFC CS0 17J2707

13C6-PFDA

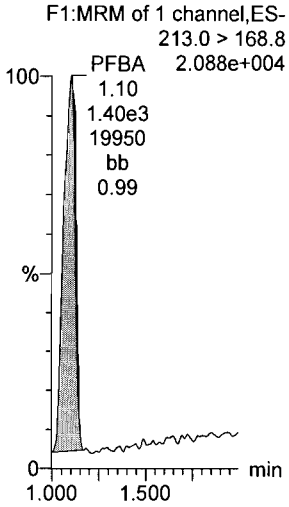


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_5, Date: 01-Nov-2017, Time: 15:29:47, ID: ST171101M2-4 PFC CS1 17J2708, Description: PFC CS1 17J2708

PFBA



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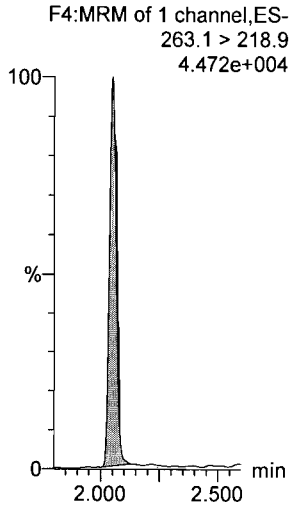
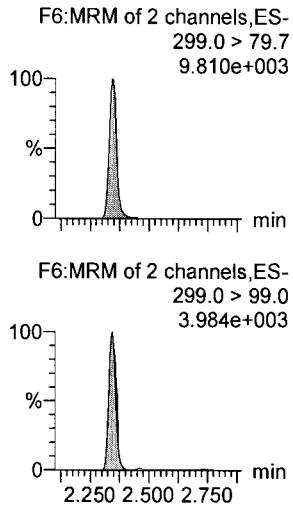
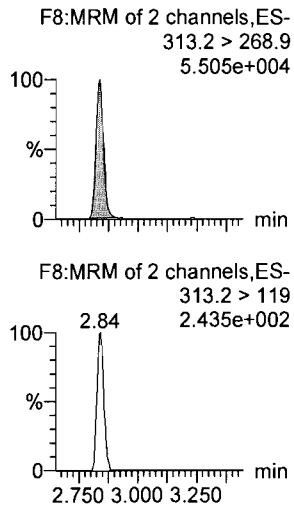


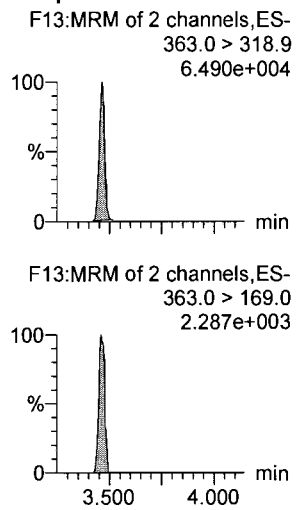
PFBS



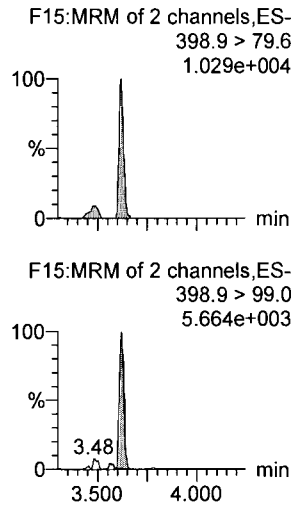
PFHxA



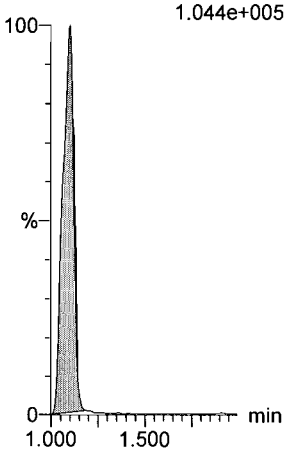
PFHpA



L-PFHxS



13C3-PFBA



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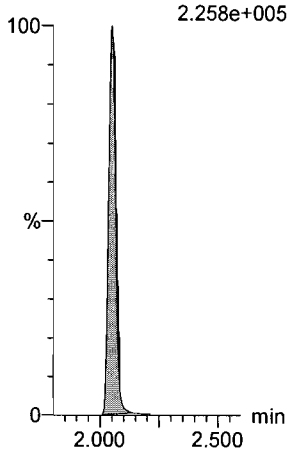

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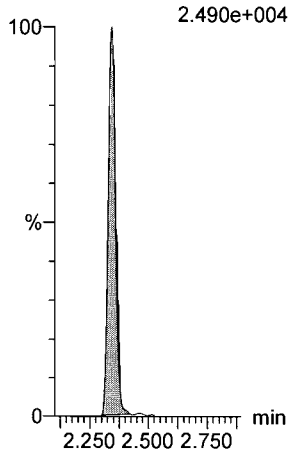
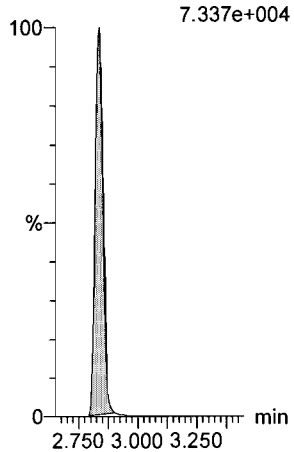
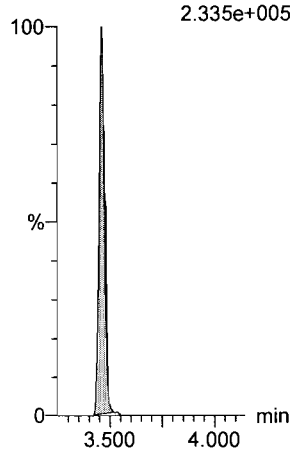


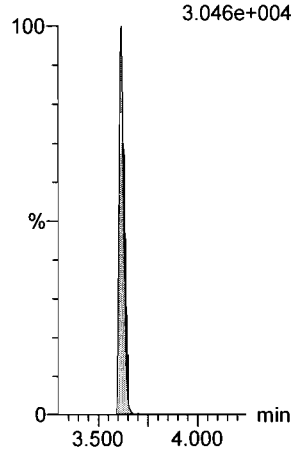
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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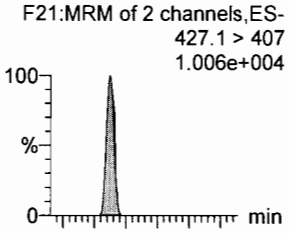
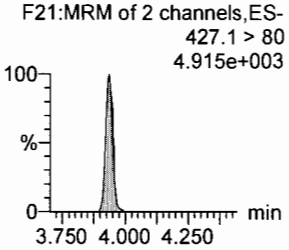
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

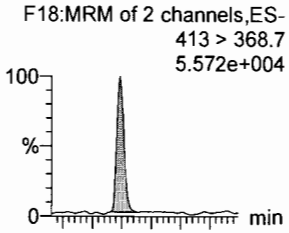
Name: 171101M2_5, Date: 01-Nov-2017, Time: 15:29:47, ID: ST171101M2-4 PFC CS1 17J2708, Description: PFC CS1 17J2708

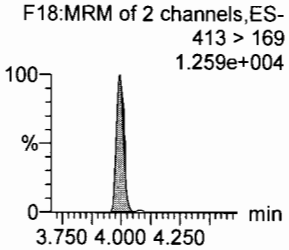
6:2 FTS



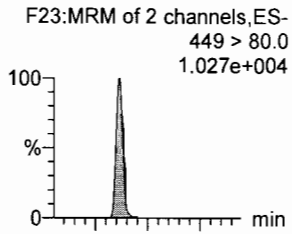


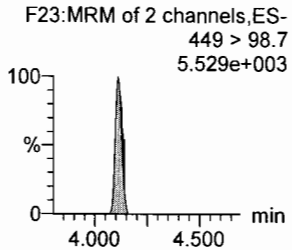
L-PFOA





PFHpS





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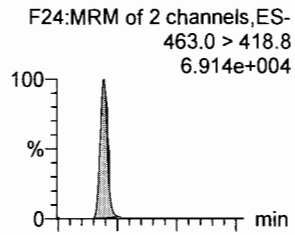

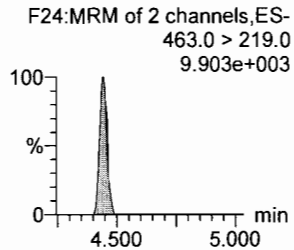

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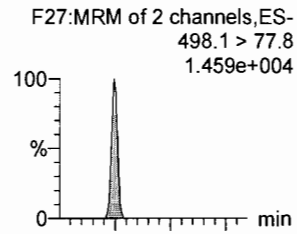
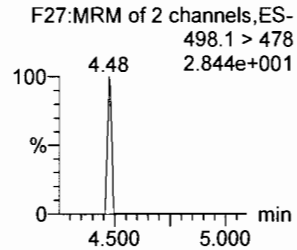
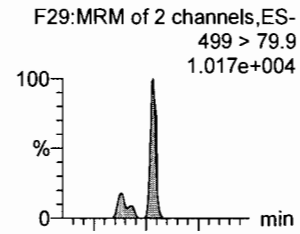
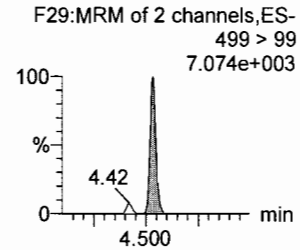


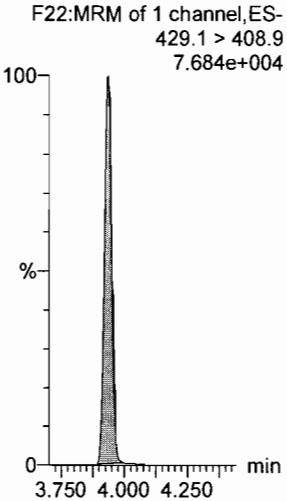


L-PFOS

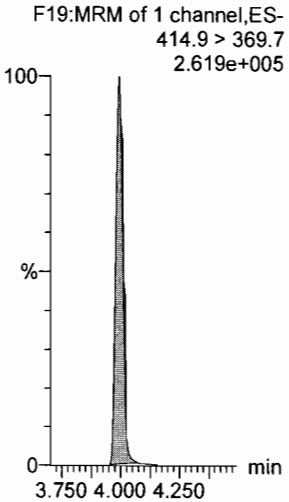




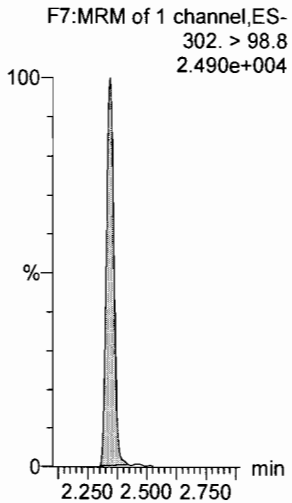
13C2-6:2 FTS



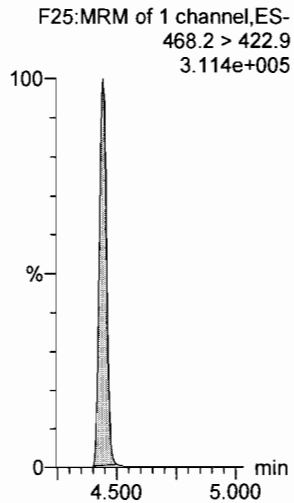
13C2-PFOA



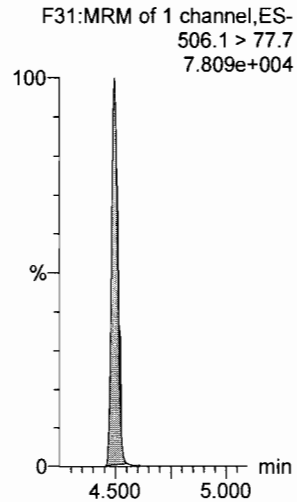
13C3-PFBS



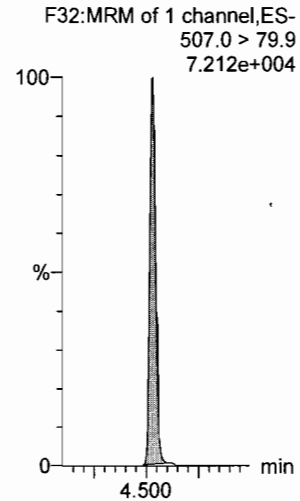
13C5-PFNA



13C8-PFOSA



13C8-PFOS

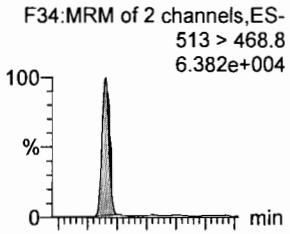


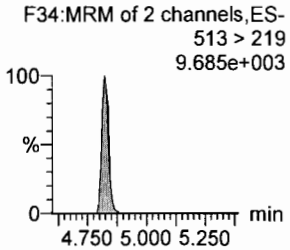
Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

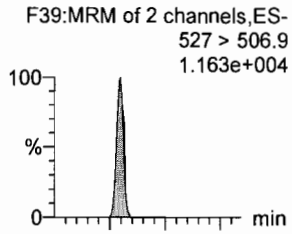
Name: 171101M2_5, Date: 01-Nov-2017, Time: 15:29:47, ID: ST171101M2-4 PFC CS1 17J2708, Description: PFC CS1 17J2708

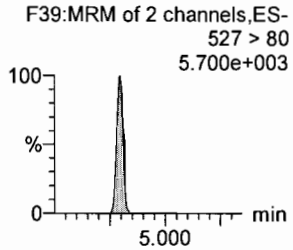
PFDA



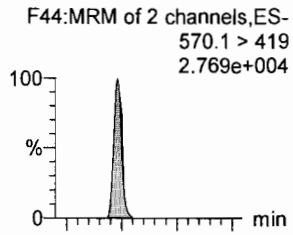


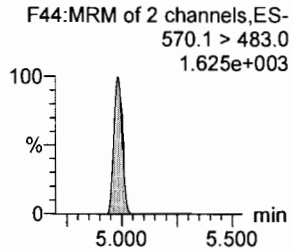
8:2 FTS



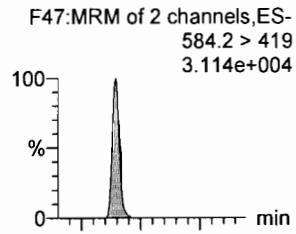


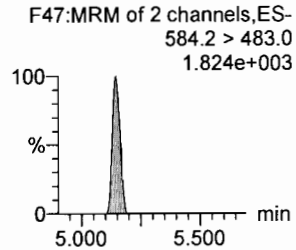
N-MeFOSAA





N-EtFOSAA





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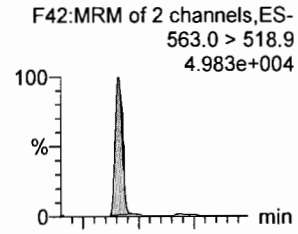
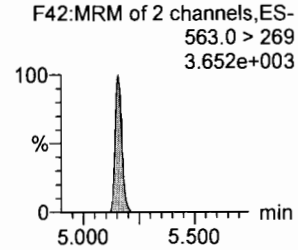
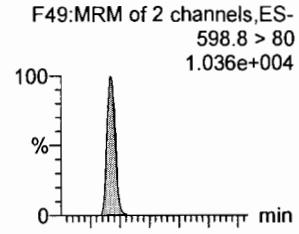
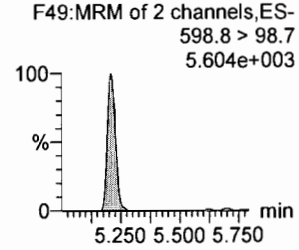


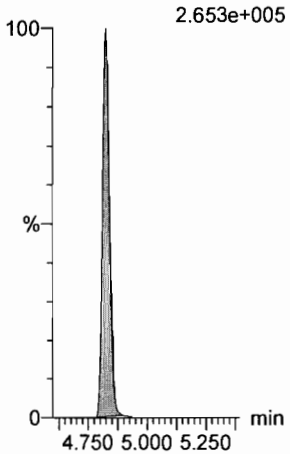


PFDS

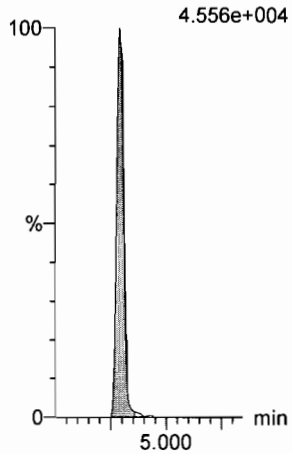




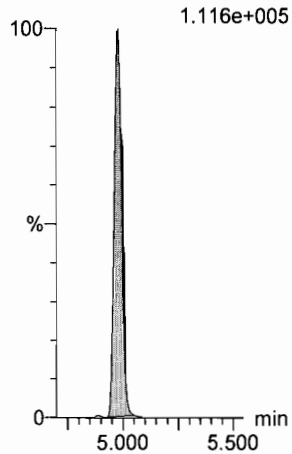
13C2-PFDA



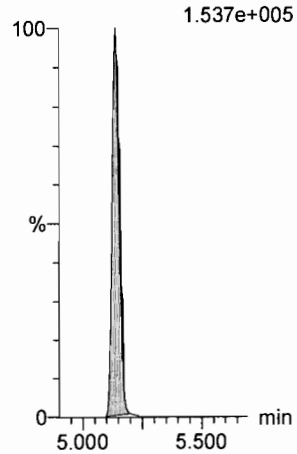
13C2-8:2 FTS



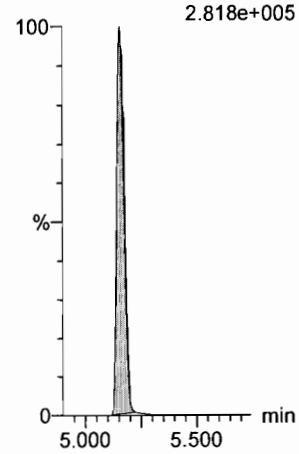
d3-N-MeFOSAA



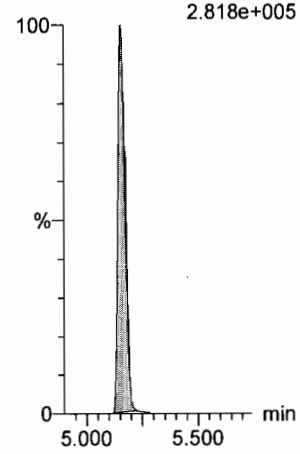
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA

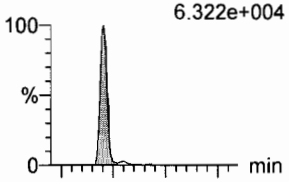


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

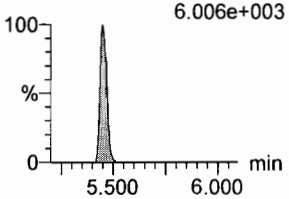
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_5, Date: 01-Nov-2017, Time: 15:29:47, ID: ST171101M2-4 PFC CS1 17J2708, Description: PFC CS1 17J2708

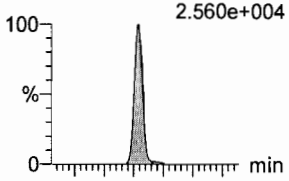
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
6.322e+004



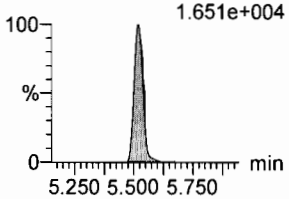
F50:MRM of 2 channels,ES-
612.9 > 318.8
6.006e+003



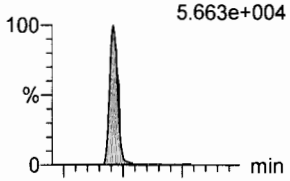
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
2.560e+004



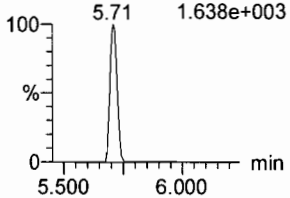
F33:MRM of 2 channels,ES-
512.1 > 219
1.651e+004



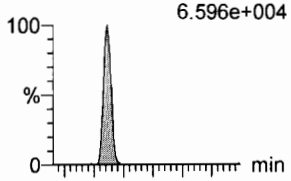
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
5.663e+004



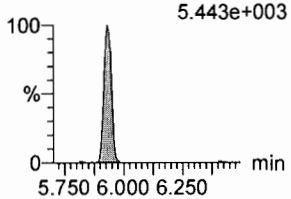
F56:MRM of 2 channels,ES-
662.9 > 319
5.71 1.638e+003



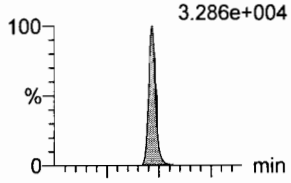
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
6.596e+004



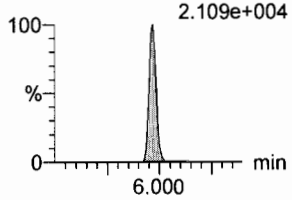
F57:MRM of 2 channels,ES-
712.9 > 369
5.443e+003



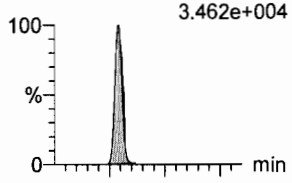
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
3.286e+004



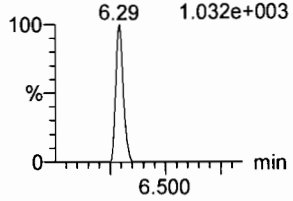
F38:MRM of 2 channels,ES-
526.1 > 219
2.109e+004



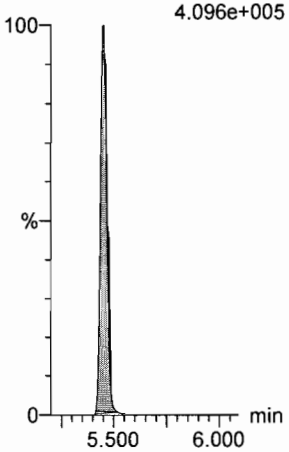
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
3.462e+004



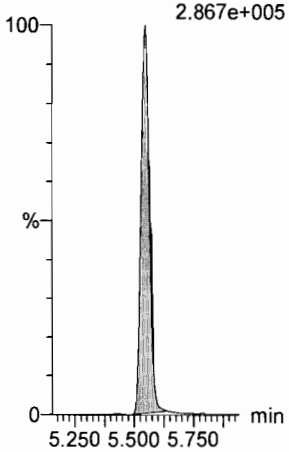
F59:MRM of 2 channels,ES-
813.1 > 219
6.29 1.032e+003



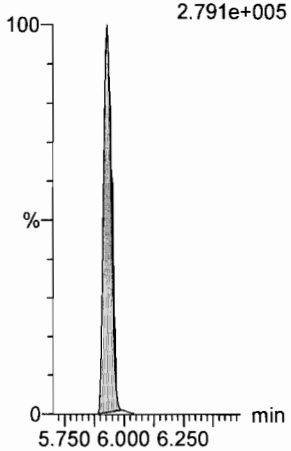
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
4.096e+005



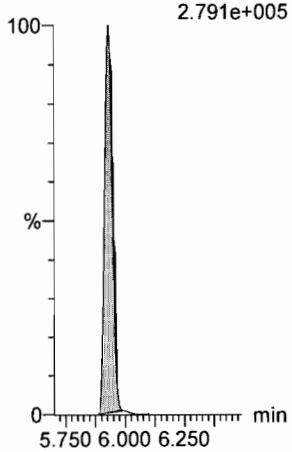
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.867e+005



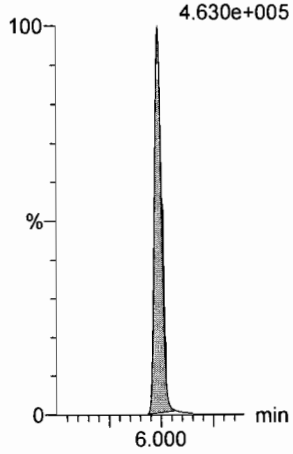
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.791e+005



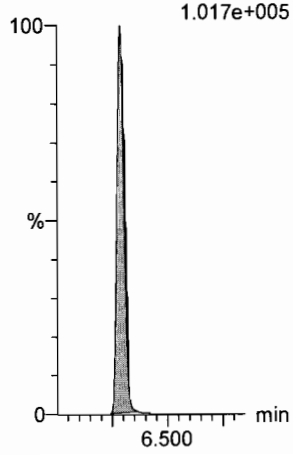
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.791e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.630e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.017e+005

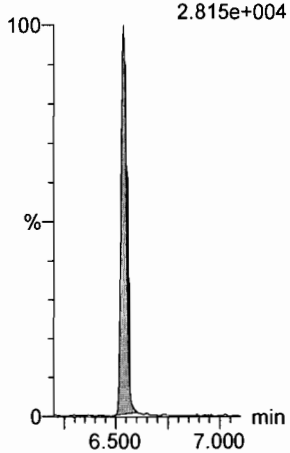


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

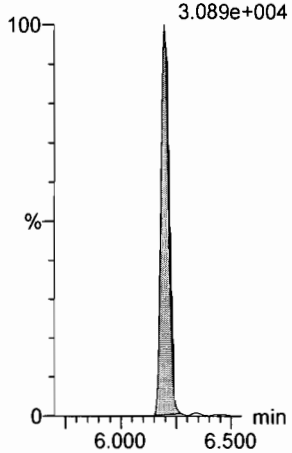
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_5, Date: 01-Nov-2017, Time: 15:29:47, ID: ST171101M2-4 PFC CS1 17J2708, Description: PFC CS1 17J2708

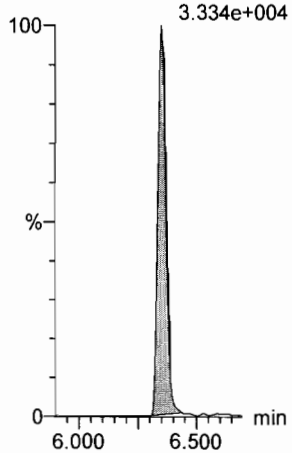
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
2.815e+004



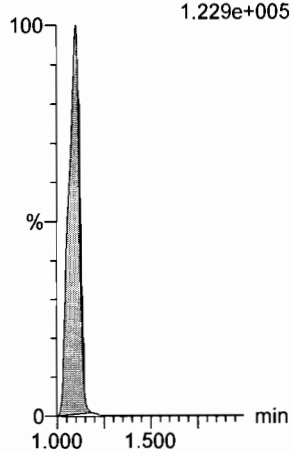
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
3.089e+004



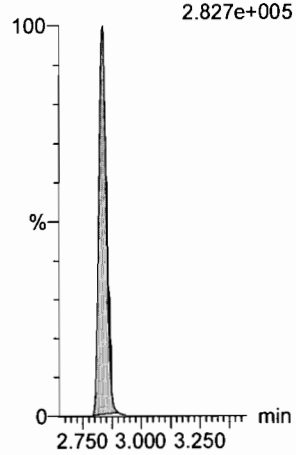
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
3.334e+004



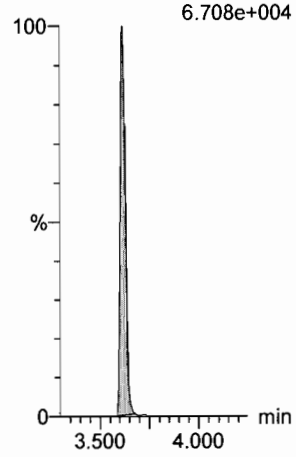
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.229e+005



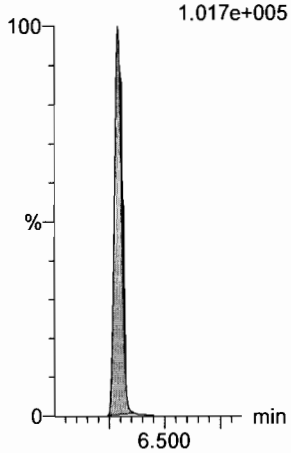
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
2.827e+005



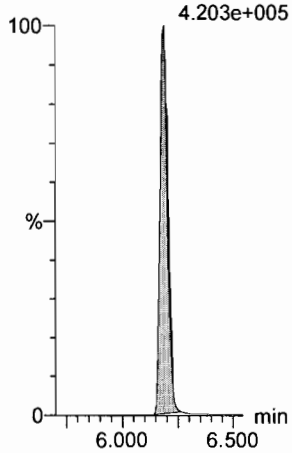
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
6.708e+004



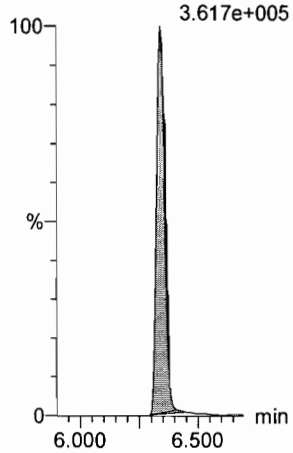
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.017e+005



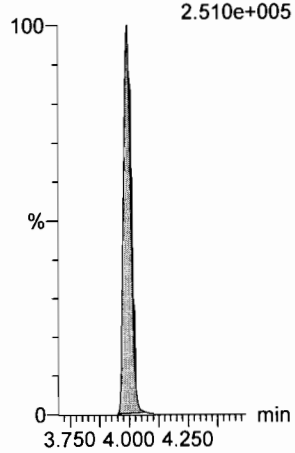
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
4.203e+005



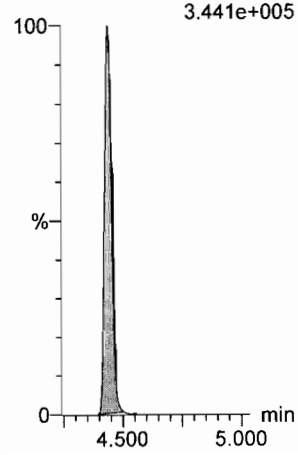
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.617e+005



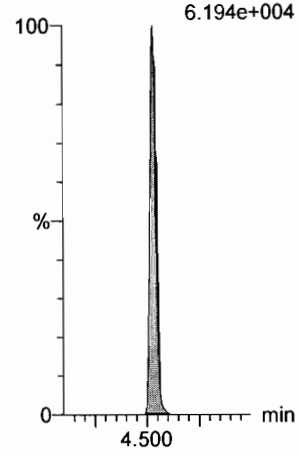
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.510e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
3.441e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.194e+004

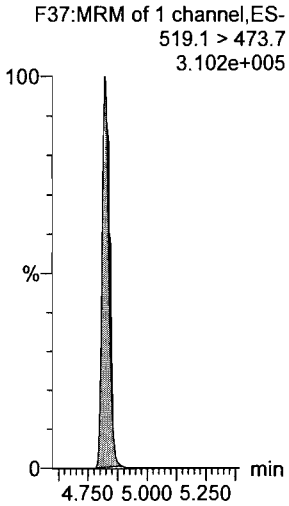


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_5, Date: 01-Nov-2017, Time: 15:29:47, ID: ST171101M2-4 PFC CS1 17J2708, Description: PFC CS1 17J2708

13C6-PFDA

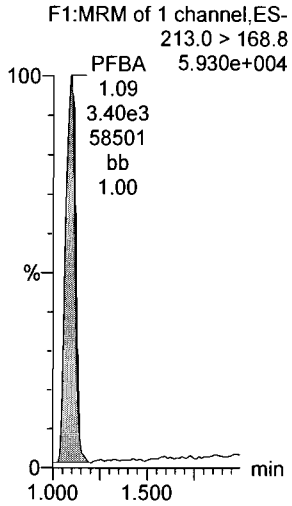


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

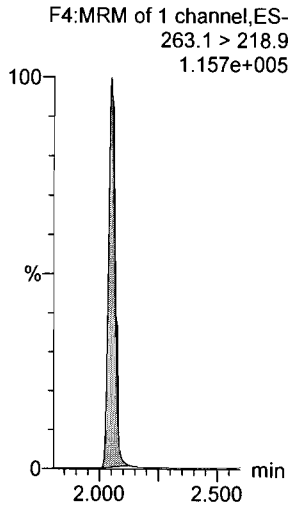
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_6, Date: 01-Nov-2017, Time: 15:40:57, ID: ST171101M2-5 PFC CS2 17J2710, Description: PFC CS2 17J2710

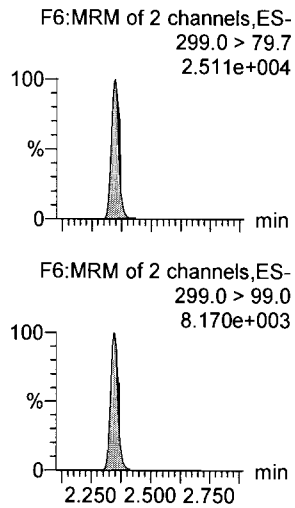
PFBA



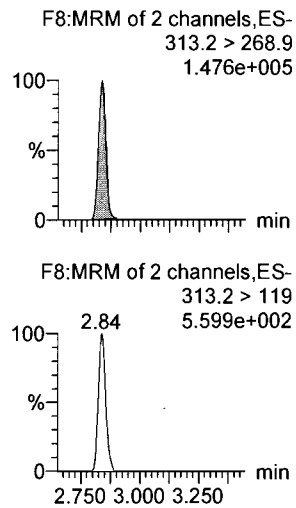
PFPeA



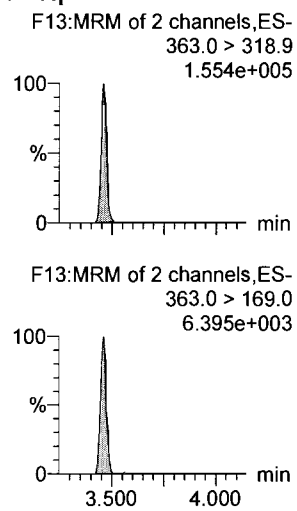
PFBS



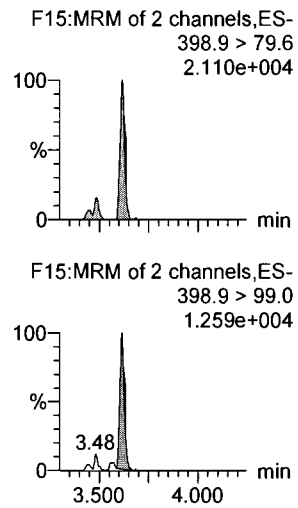
PFHxA



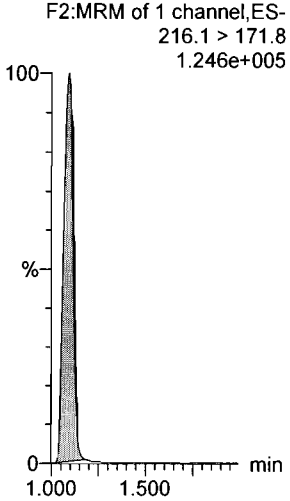
PFHpA



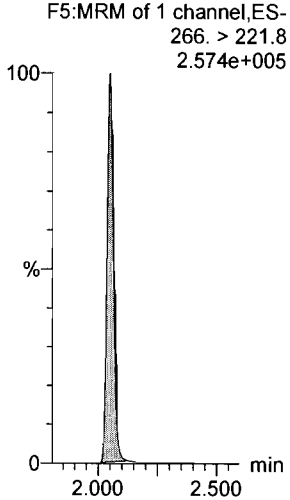
L-PFHxS



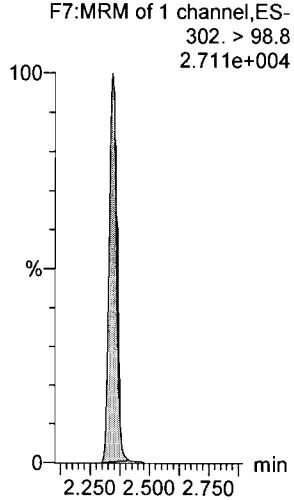
13C3-PFBA



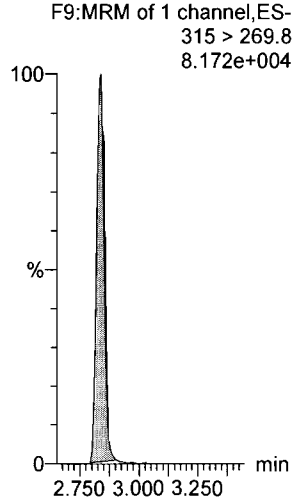
13C3-PFPeA



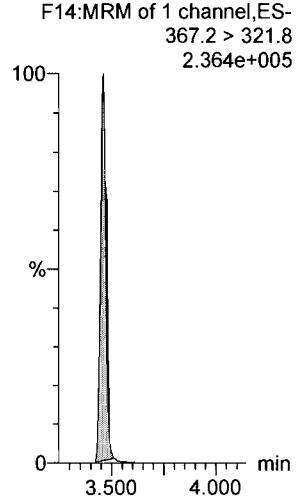
13C3-PFBS



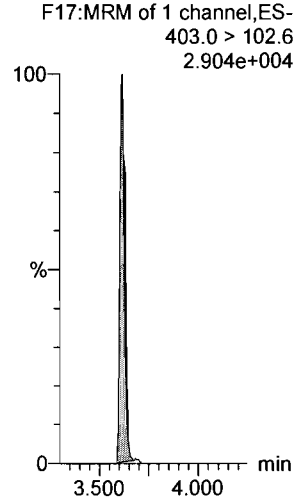
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

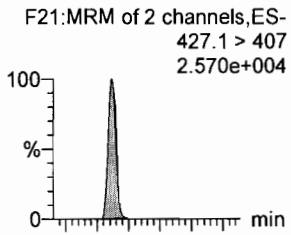


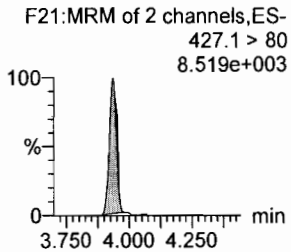
Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

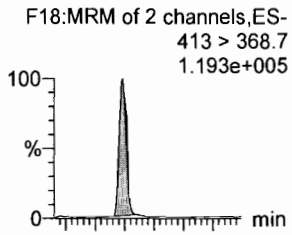
Name: 171101M2_6, Date: 01-Nov-2017, Time: 15:40:57, ID: ST171101M2-5 PFC CS2 17J2710, Description: PFC CS2 17J2710

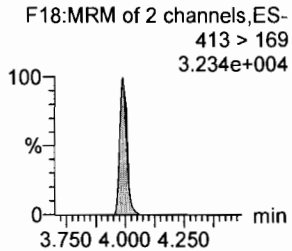
6:2 FTS



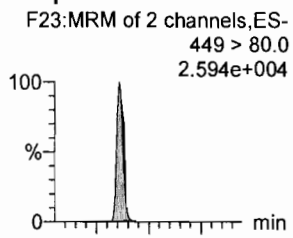


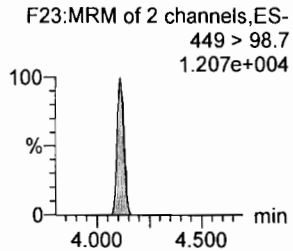
L-PFOA



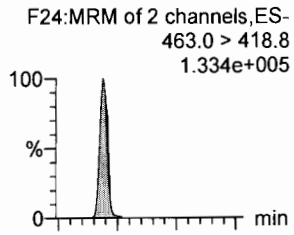


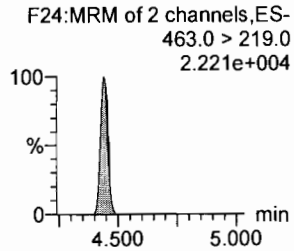
PFHpS



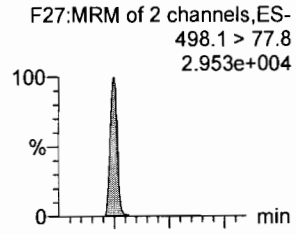


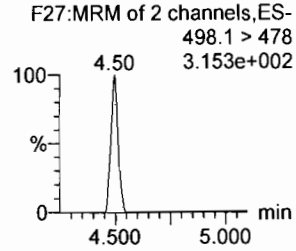
PFNA



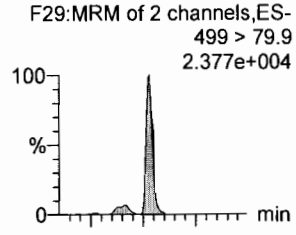


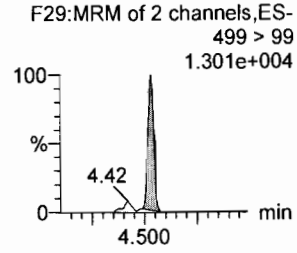
PFOSA



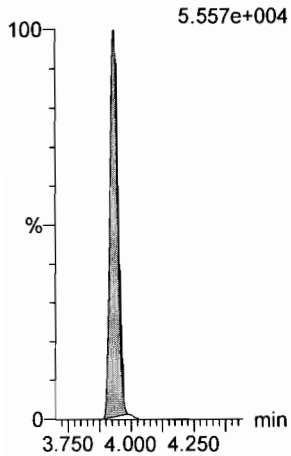


L-PFOS

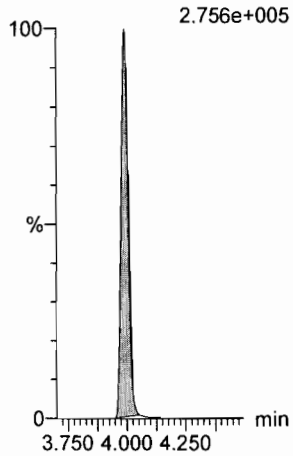




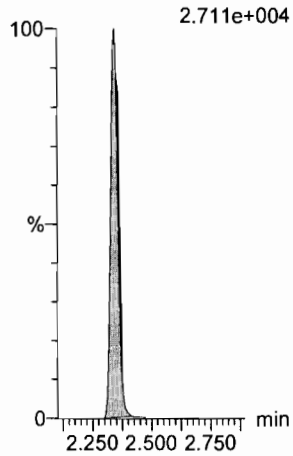
13C2-6:2 FTS



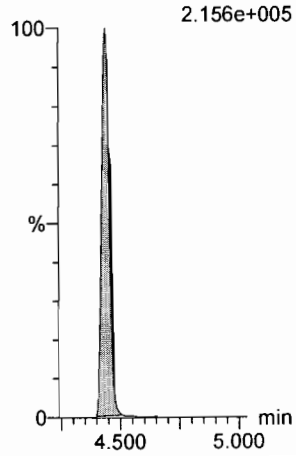
13C2-PFOA



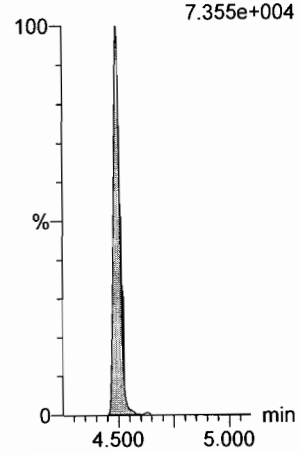
13C3-PFBS



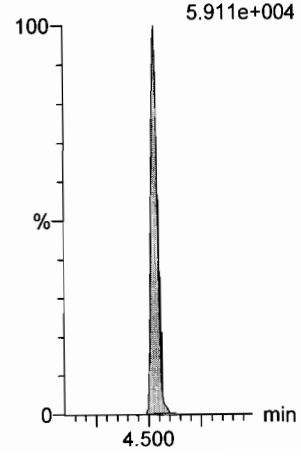
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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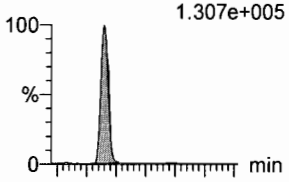
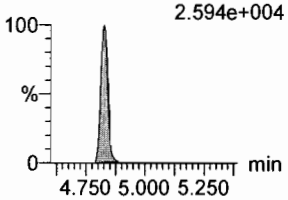
Name: 171101M2_6, Date: 01-Nov-2017, Time: 15:40:57, ID: ST171101M2-5 PFC CS2 17J2710, Description: PFC CS2 17J2710

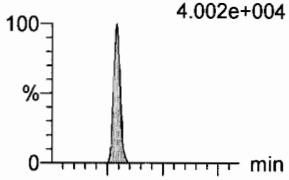
PFDA
F34:MRM of 2 channels,ES-
513 > 468.8
1.307e+005



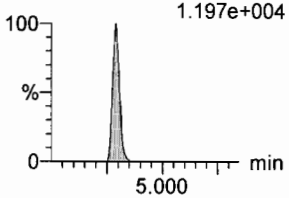
F34:MRM of 2 channels,ES-
513 > 219
2.594e+004



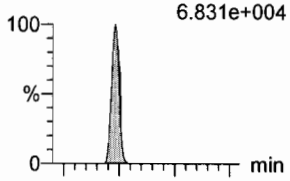
8:2 FTS
F39:MRM of 2 channels,ES-
527 > 506.9
4.002e+004



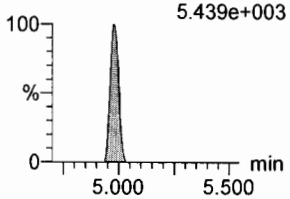
F39:MRM of 2 channels,ES-
527 > 80
1.197e+004



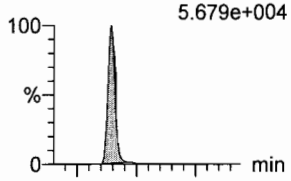
N-MeFOSAA
F44:MRM of 2 channels,ES-
570.1 > 419
6.831e+004



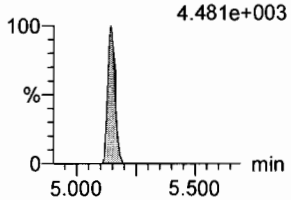
F44:MRM of 2 channels,ES-
570.1 > 483.0
5.439e+003



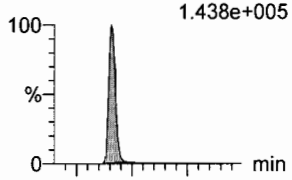
N-EtFOSAA
F47:MRM of 2 channels,ES-
584.2 > 419
5.679e+004



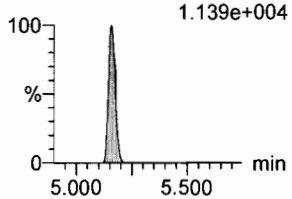
F47:MRM of 2 channels,ES-
584.2 > 483.0
4.481e+003



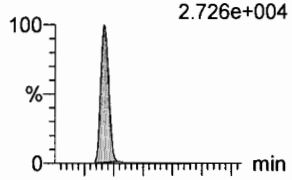
PFUdA
F42:MRM of 2 channels,ES-
563.0 > 518.9
1.438e+005



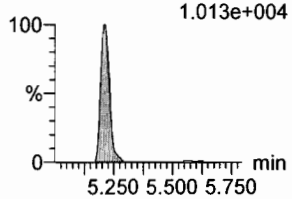
F42:MRM of 2 channels,ES-
563.0 > 269
1.139e+004



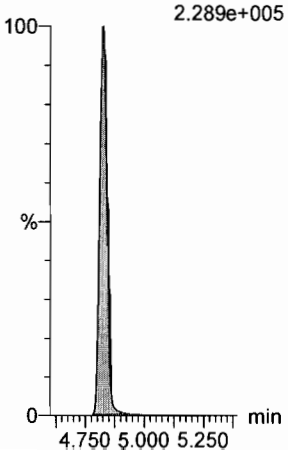
PFDS
F49:MRM of 2 channels,ES-
598.8 > 80
2.726e+004



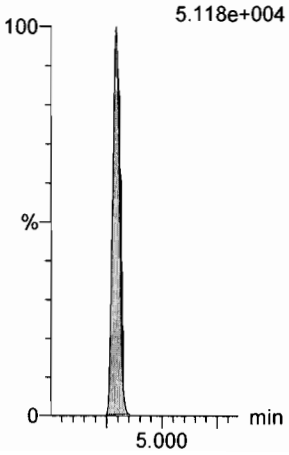
F49:MRM of 2 channels,ES-
598.8 > 98.7
1.013e+004



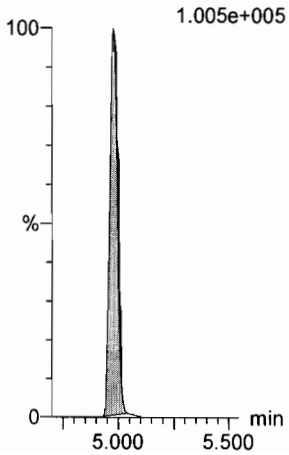
13C2-PFDA
F35:MRM of 1 channel,ES-
515.1 > 469.9
2.289e+005



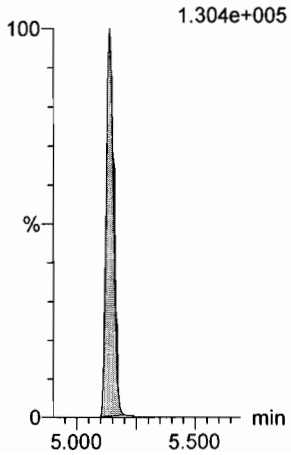
13C2-8:2 FTS
F40:MRM of 1 channel,ES-
529.1 > 508.7
5.118e+004



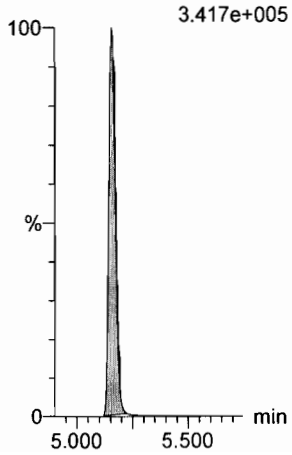
d3-N-MeFOSAA
F46:MRM of 1 channel,ES-
573.3 > 419
1.005e+005



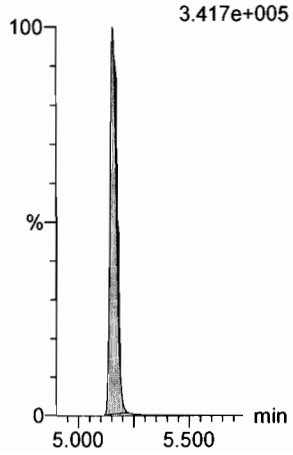
d5-N-EtFOSAA
F48:MRM of 1 channel,ES-
589.3 > 419
1.304e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
3.417e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
3.417e+005



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Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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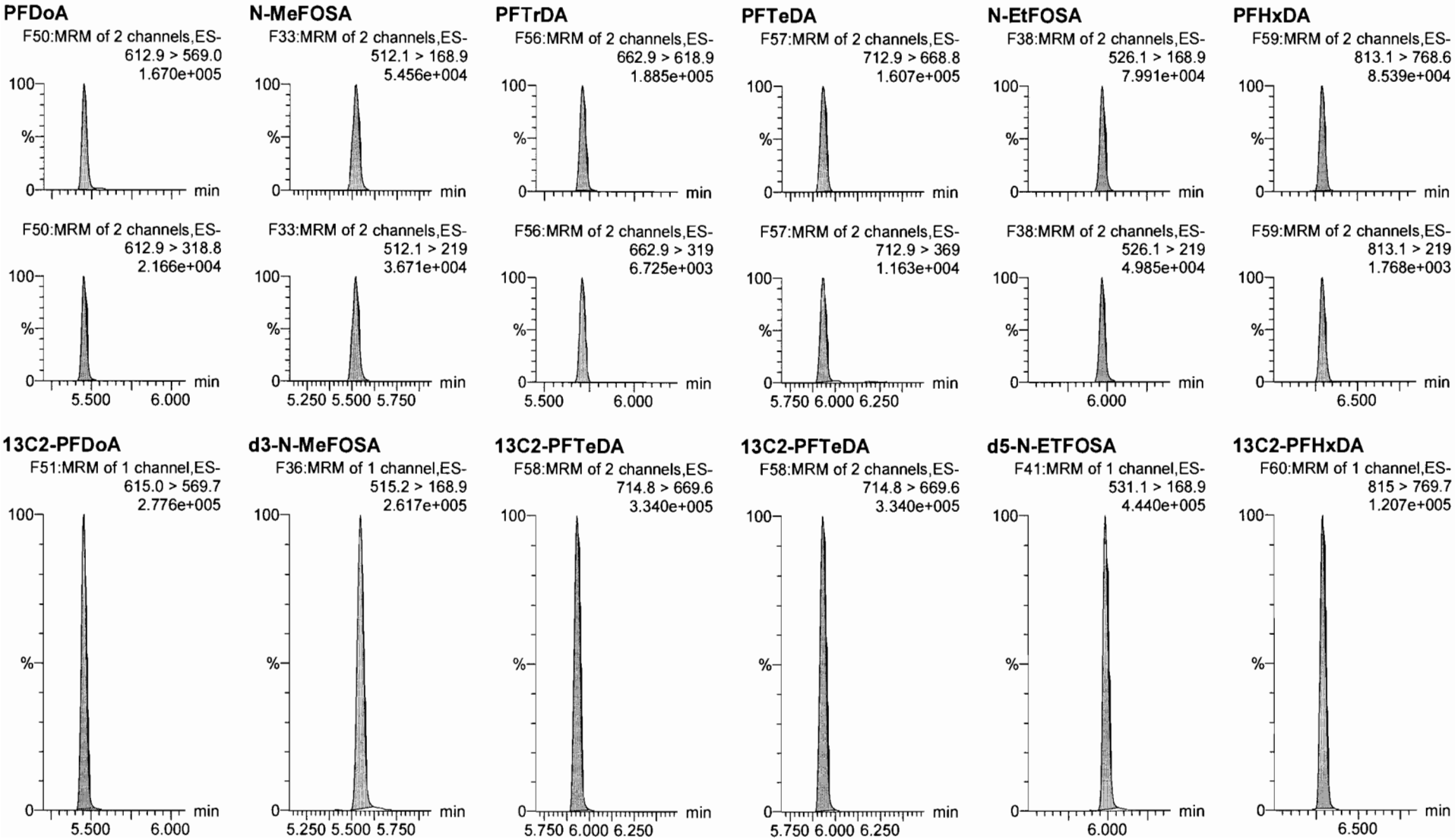
Name: 171101M2_6, Date: 01-Nov-2017, Time: 15:40:57, ID: ST171101M2-5 PFC CS2 17J2710, Description: PFC CS2 17J2710



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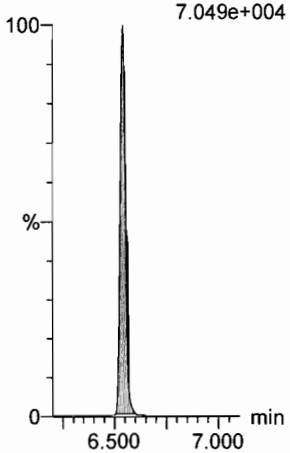
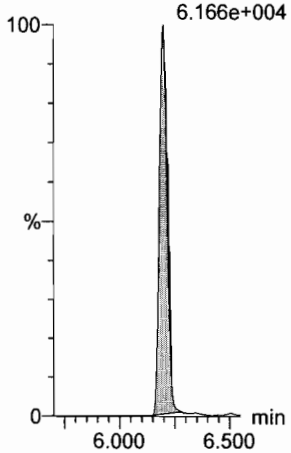
Name: 171101M2_6, Date: 01-Nov-2017, Time: 15:40:57, ID: ST171101M2-5 PFC CS2 17J2710, Description: PFC CS2 17J2710

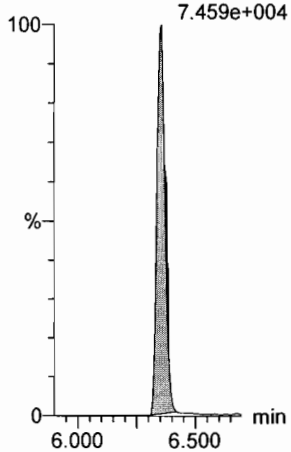
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
7.049e+004



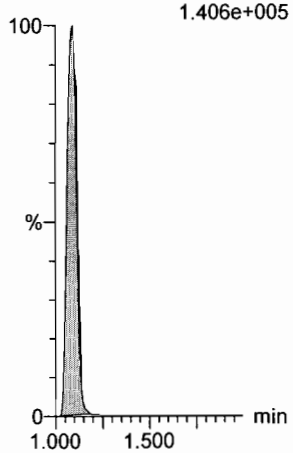
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
6.166e+004



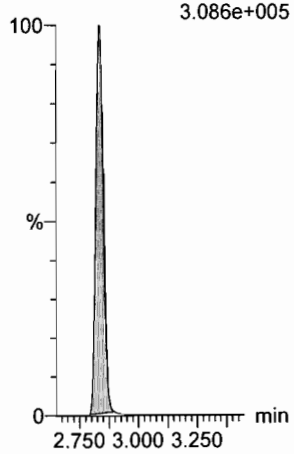
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
7.459e+004



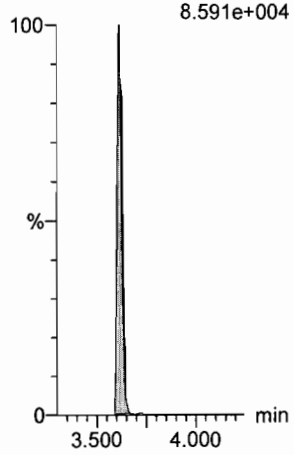
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.406e+005



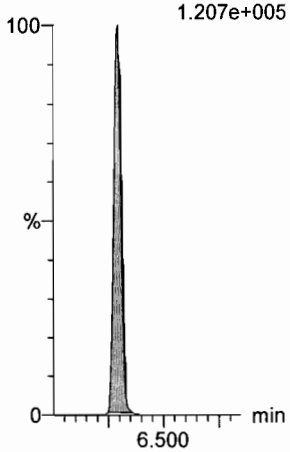
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.086e+005



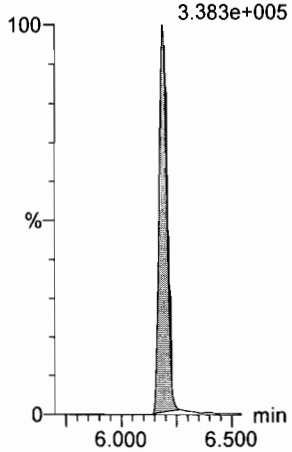
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
8.591e+004



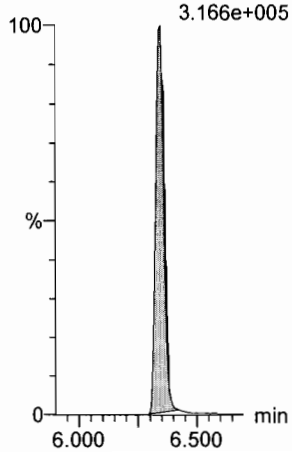
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.207e+005



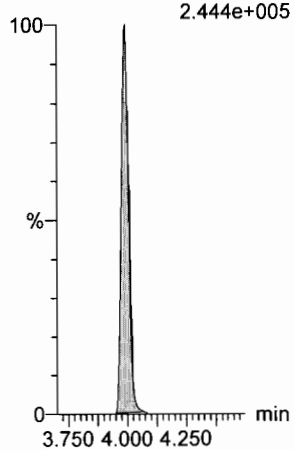
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.383e+005



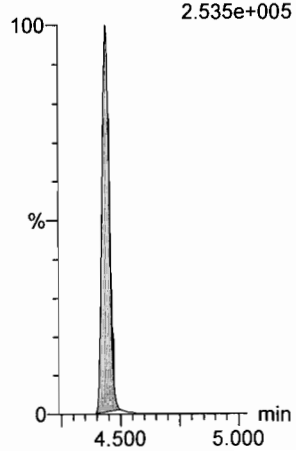
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.166e+005



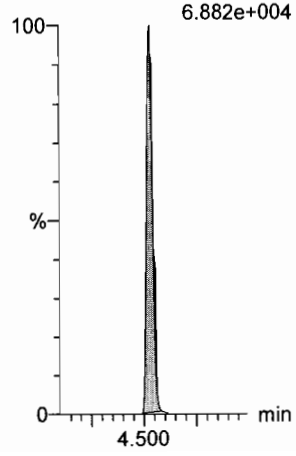
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.444e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.535e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.882e+004

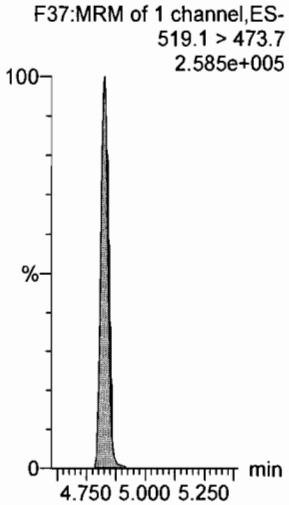


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_6, Date: 01-Nov-2017, Time: 15:40:57, ID: ST171101M2-5 PFC CS2 17J2710, Description: PFC CS2 17J2710

13C6-PFDA

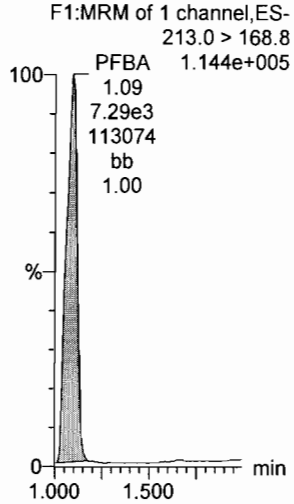


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

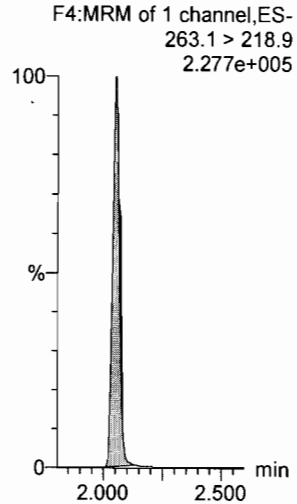
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

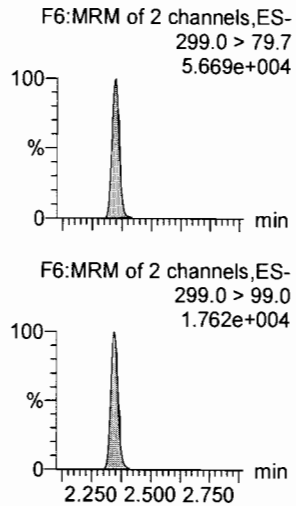
PFBA



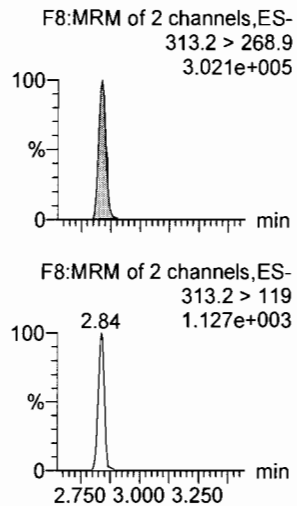
PFPeA



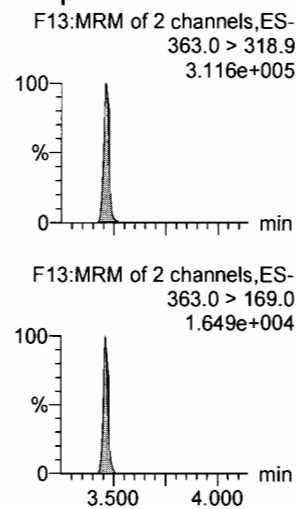
PFBS



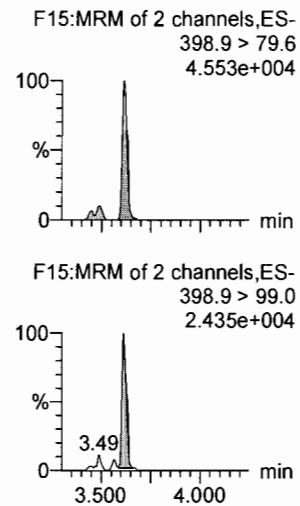
PFHxA



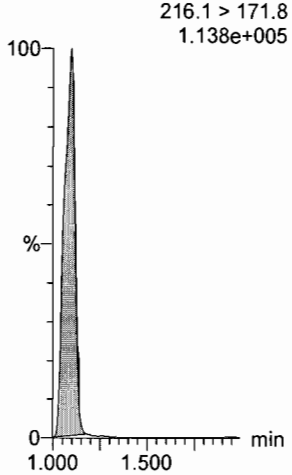
PFHpA



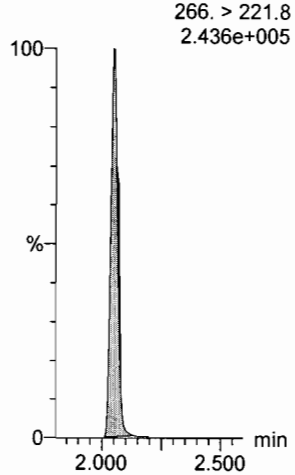
L-PFHxS



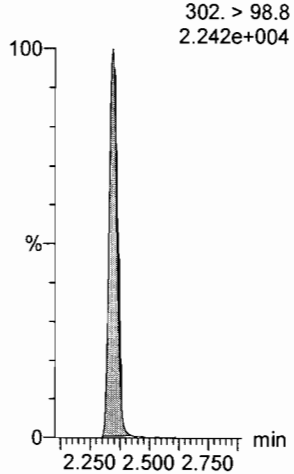
13C3-PFBA



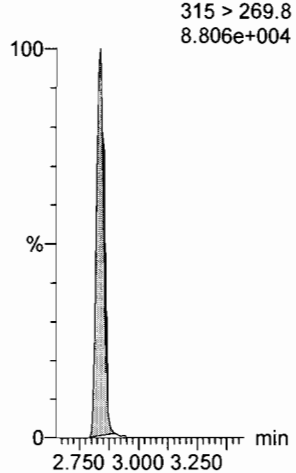
13C3-PFPeA



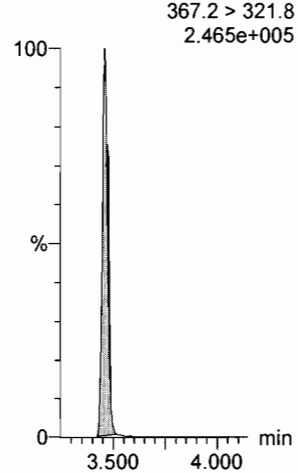
13C3-PFBS



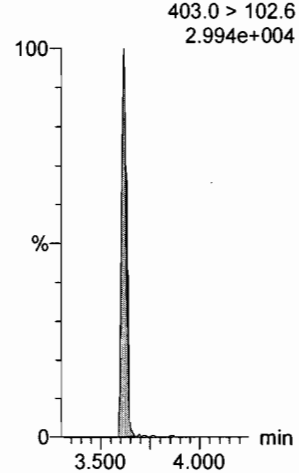
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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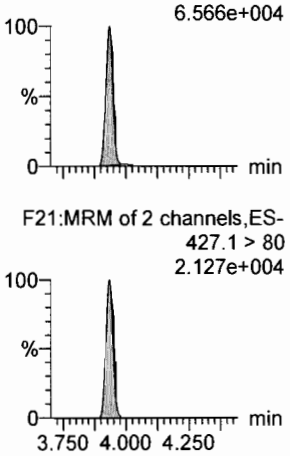
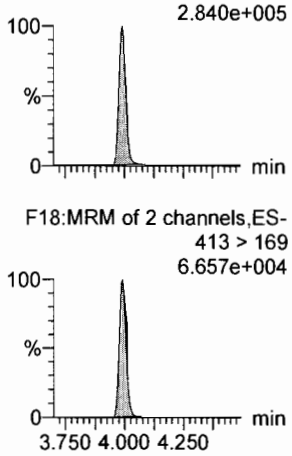
Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

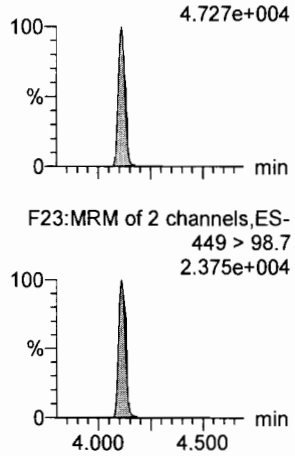
6:2 FTS



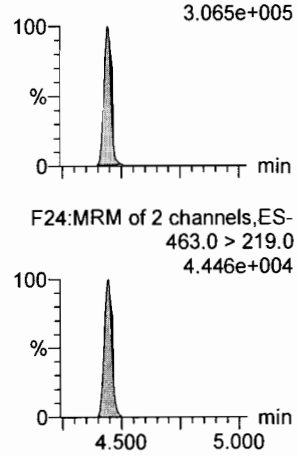
L-PFOA



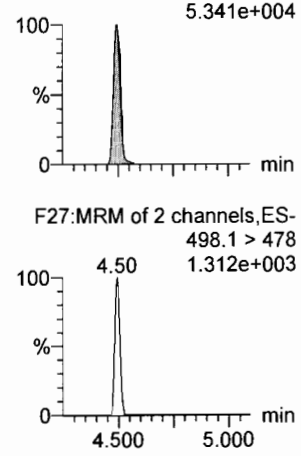
PFHpS



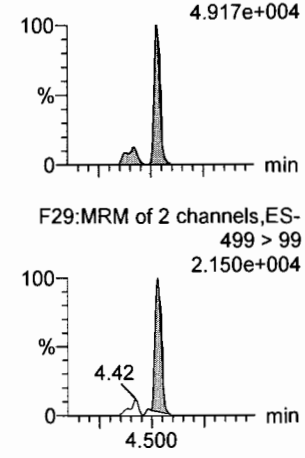
PFNA



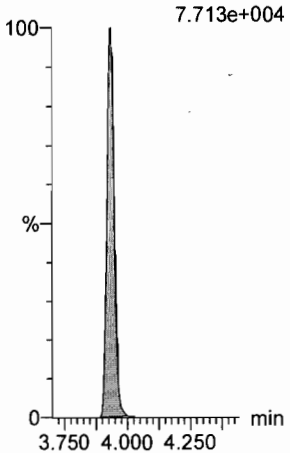
PFOSA



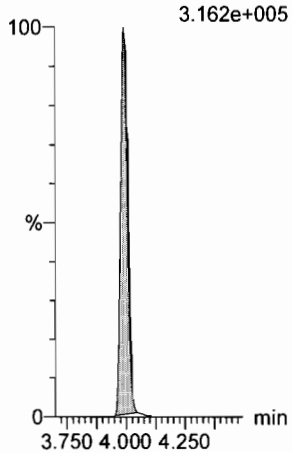
L-PFOS



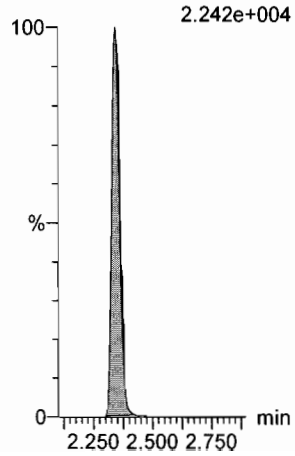
13C2-6:2 FTS



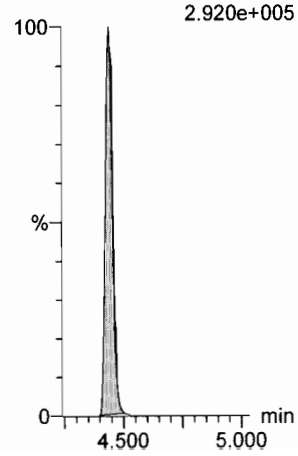
13C2-PFOA



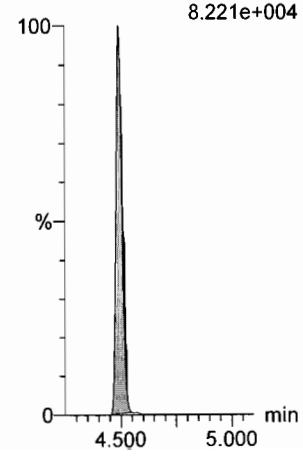
13C3-PFBS



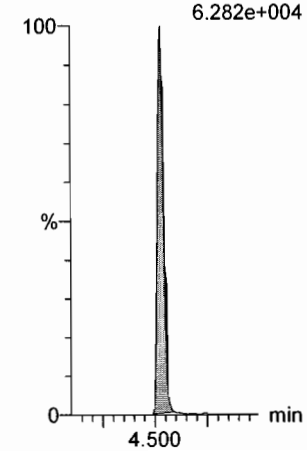
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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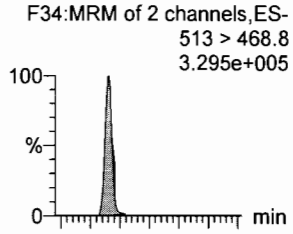
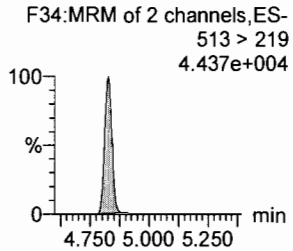
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

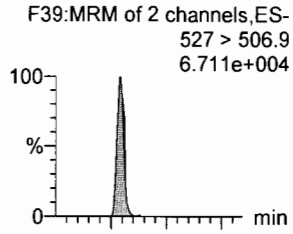
Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

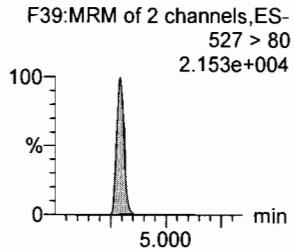
PFDA



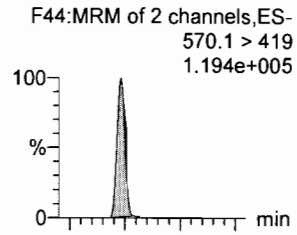


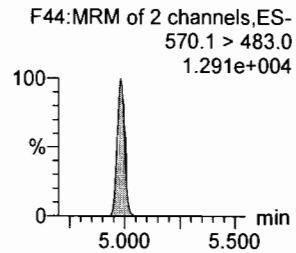
8:2 FTS



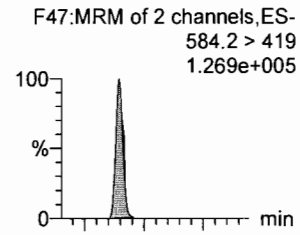


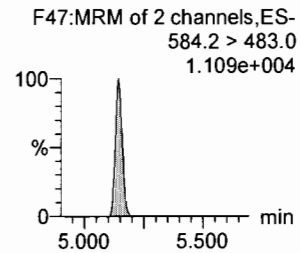
N-MeFOSAA



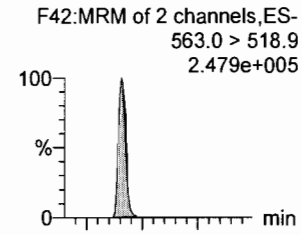


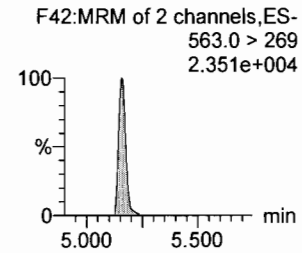
N-EtFOSAA



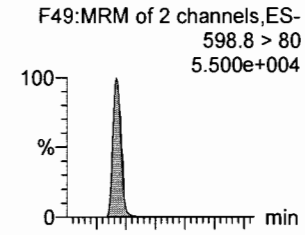


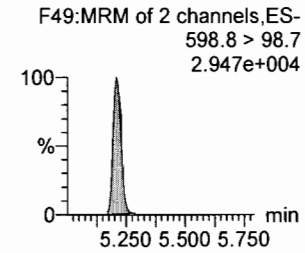
PFUdA



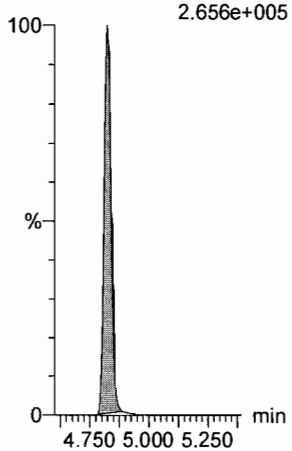


PFDS

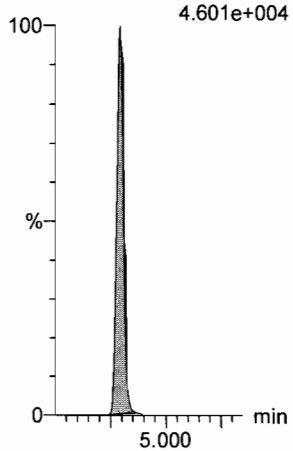




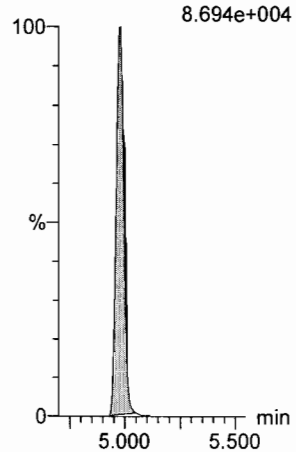
13C2-PFDA



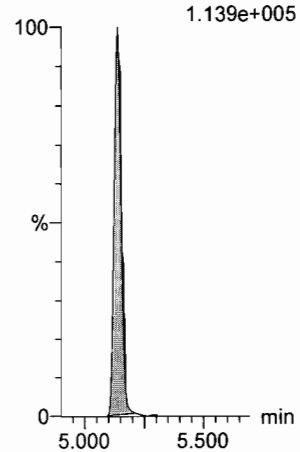
13C2-8:2 FTS



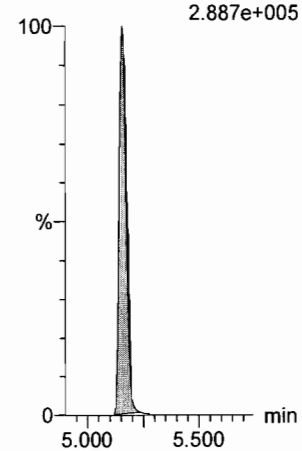
d3-N-MeFOSAA



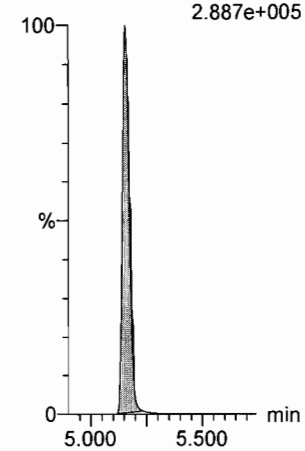
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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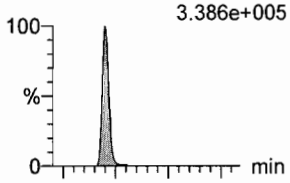
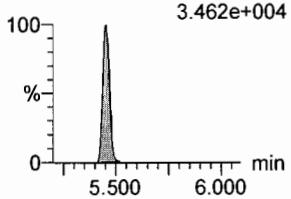
Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

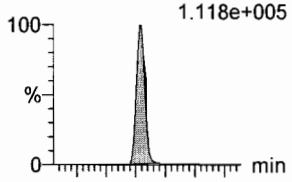
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
3.386e+005



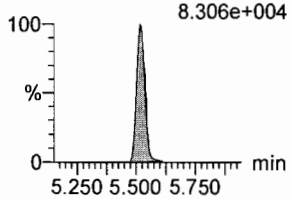
F50:MRM of 2 channels,ES-
612.9 > 318.8
3.462e+004



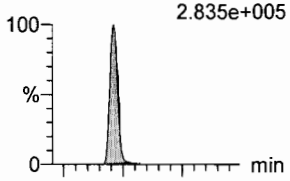
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
1.118e+005



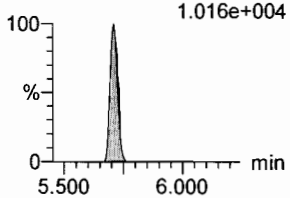
F33:MRM of 2 channels,ES-
512.1 > 219
8.306e+004



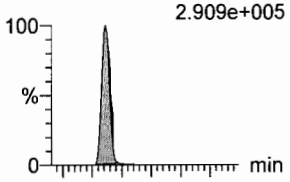
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
2.835e+005



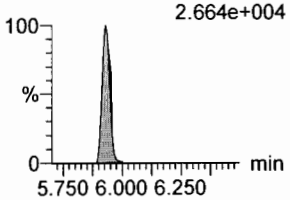
F56:MRM of 2 channels,ES-
662.9 > 319
1.016e+004



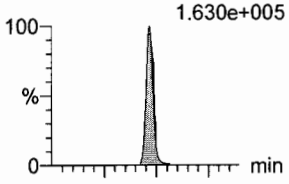
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
2.909e+005



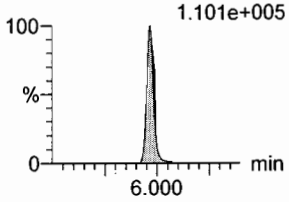
F57:MRM of 2 channels,ES-
712.9 > 369
2.664e+004



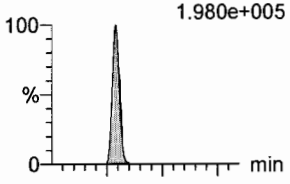
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
1.630e+005



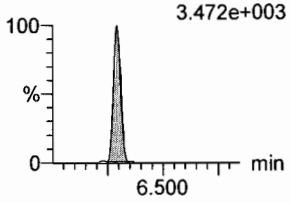
F38:MRM of 2 channels,ES-
526.1 > 219
1.101e+005



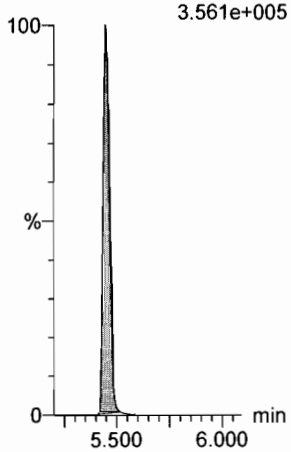
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.980e+005



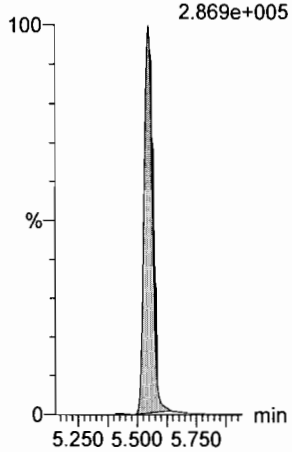
F59:MRM of 2 channels,ES-
813.1 > 219
3.472e+003



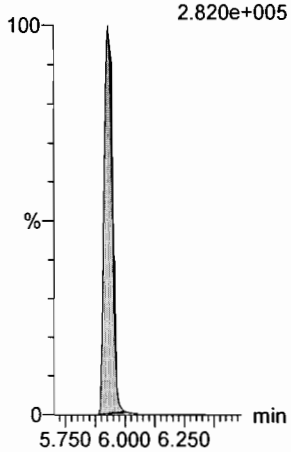
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
3.561e+005



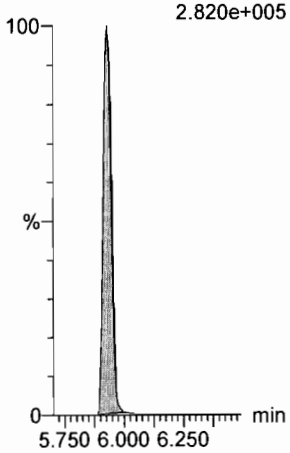
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.869e+005



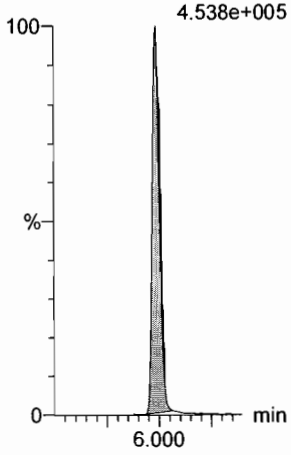
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.820e+005



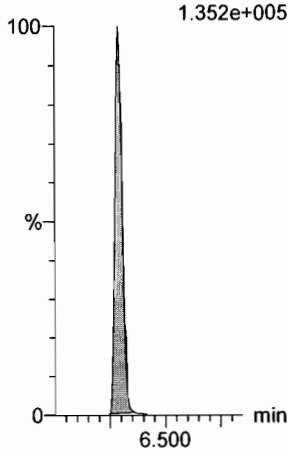
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.820e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.538e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.352e+005



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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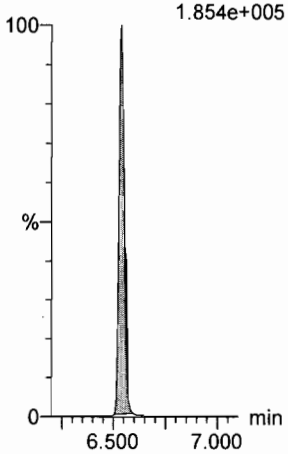
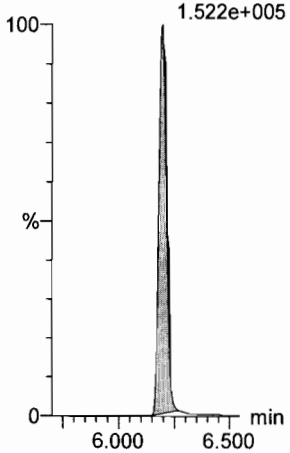
Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

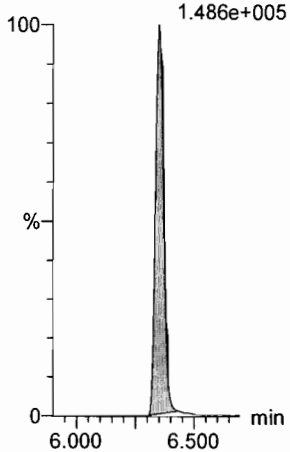
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
1.854e+005



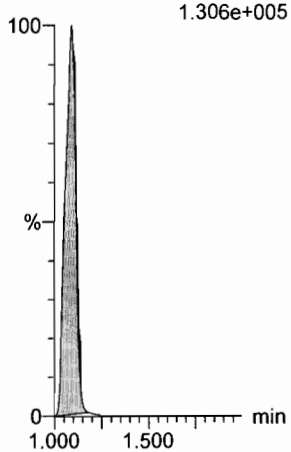
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
1.522e+005



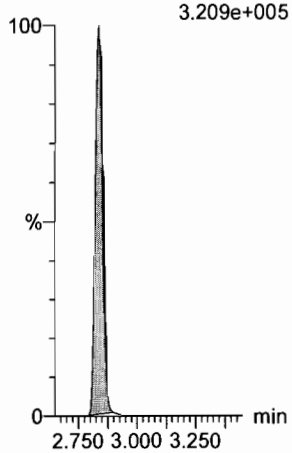
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
1.486e+005



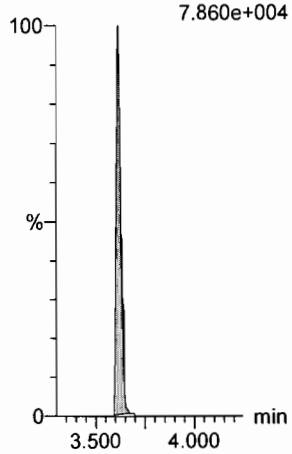
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.306e+005



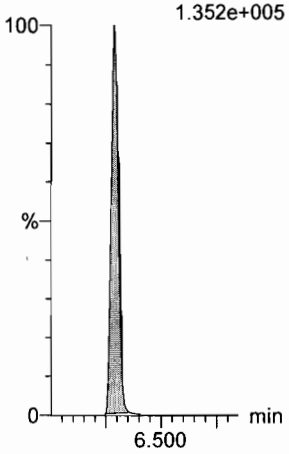
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.209e+005



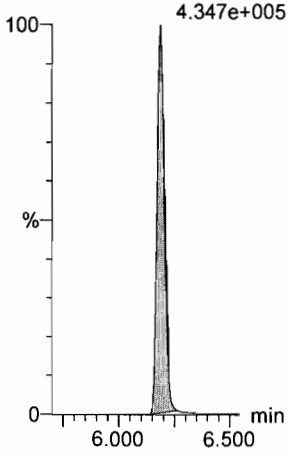
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
7.860e+004



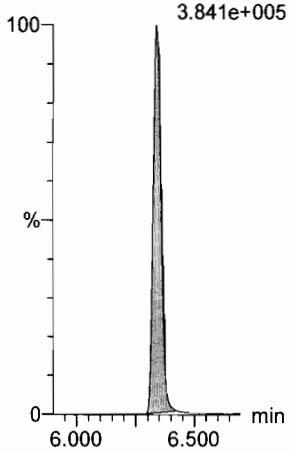
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.352e+005



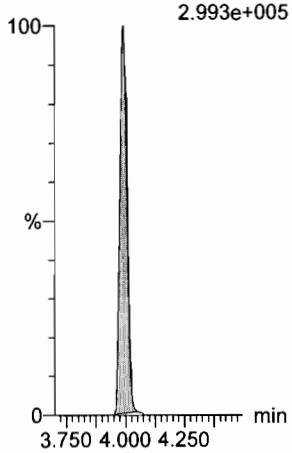
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
4.347e+005



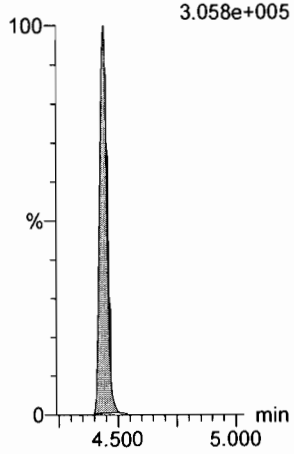
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.841e+005



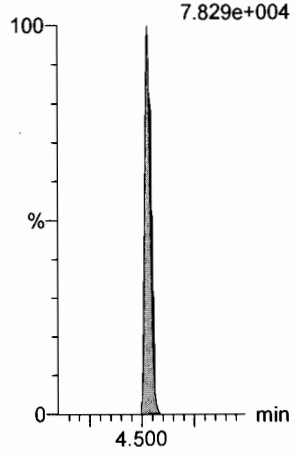
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.993e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
3.058e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
7.829e+004



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

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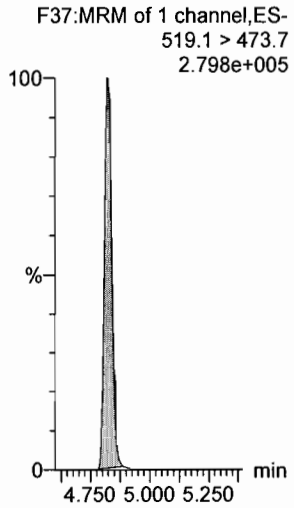
Name: 171101M2_7, Date: 01-Nov-2017, Time: 15:52:08, ID: ST171101M2-6 PFC CS3 17J2709, Description: PFC CS3 17J2709

13C6-PFDA



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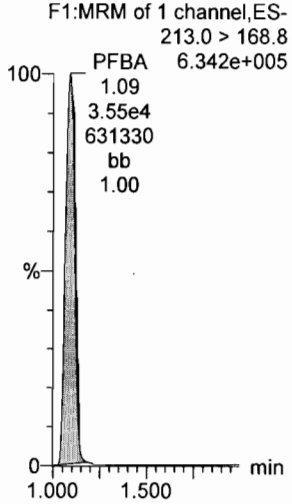
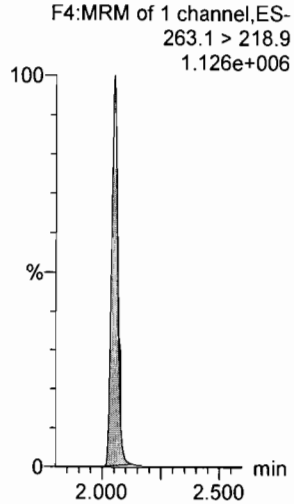
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

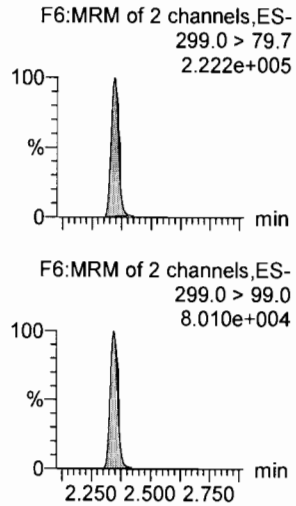
PFBA



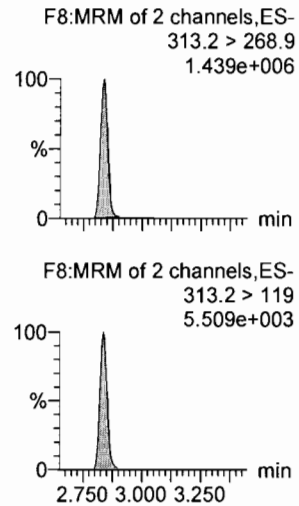
PFPeA



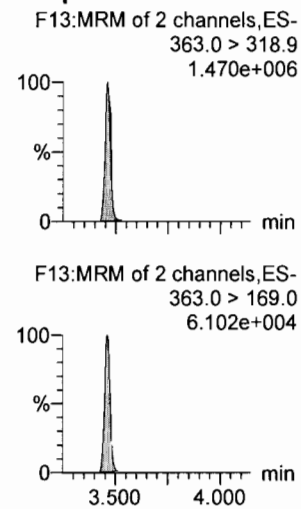
PFBS



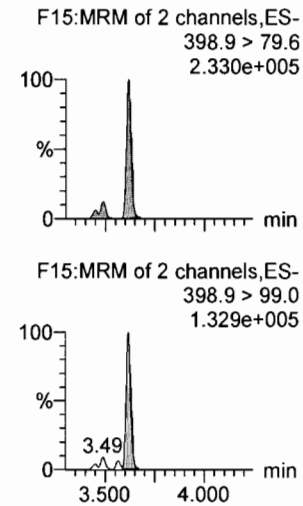
PFHxA



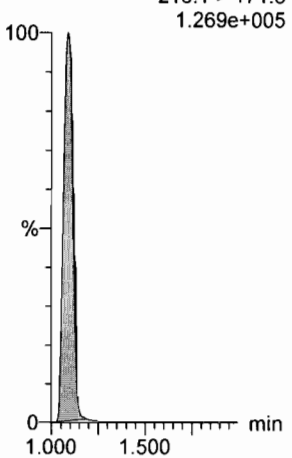
PFHpA



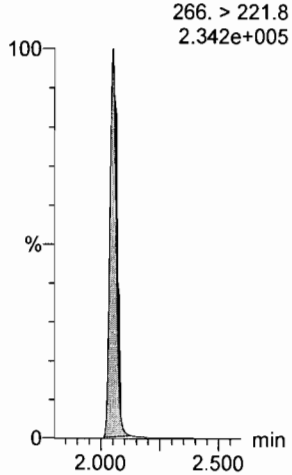
L-PFHxS



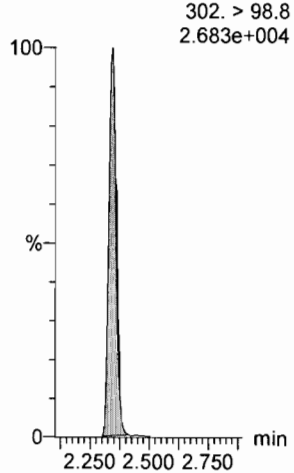
13C3-PFBA



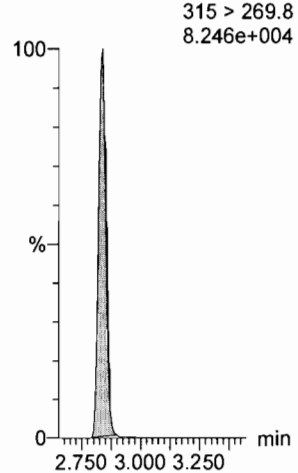
13C3-PFPeA



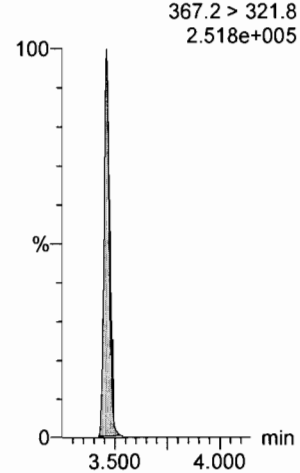
13C3-PFBS



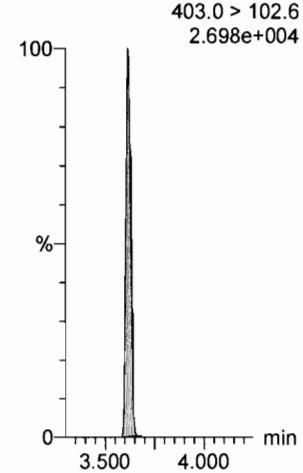
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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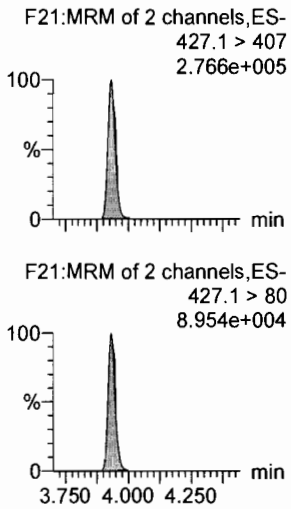
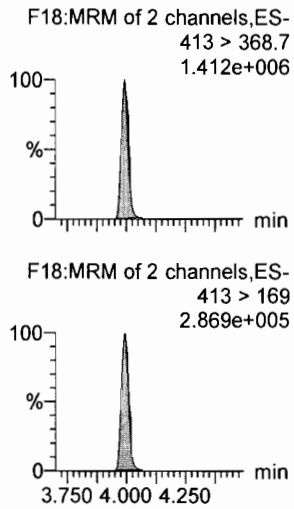
Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

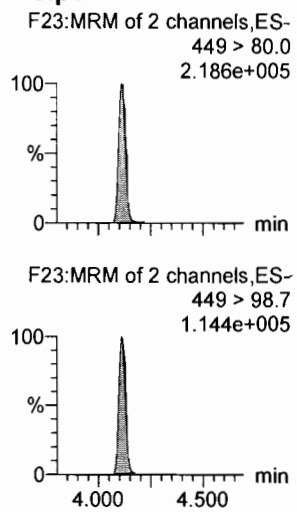
6:2 FTS



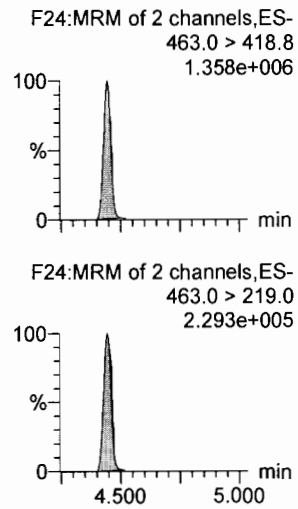
L-PFOA



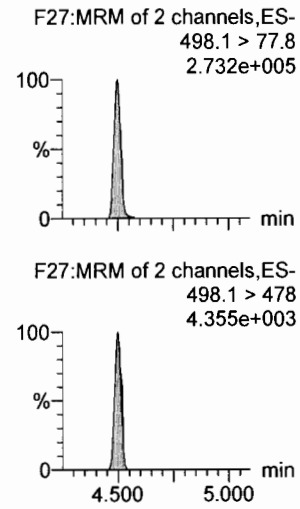
PFHpS



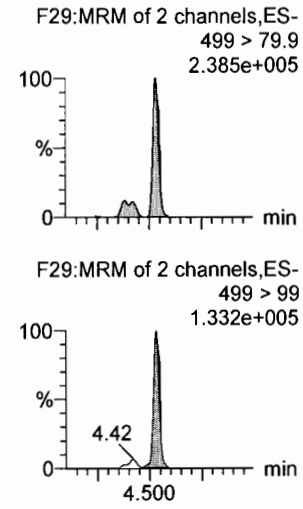
PFNA



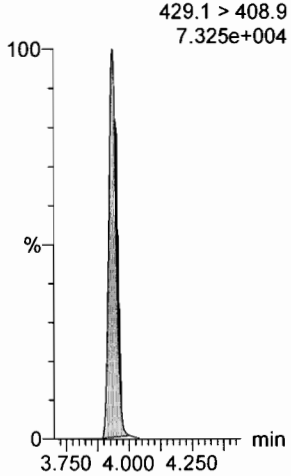
PFOSA



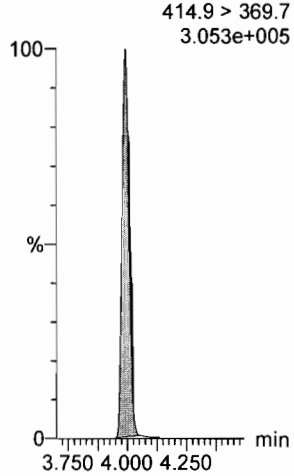
L-PFOS



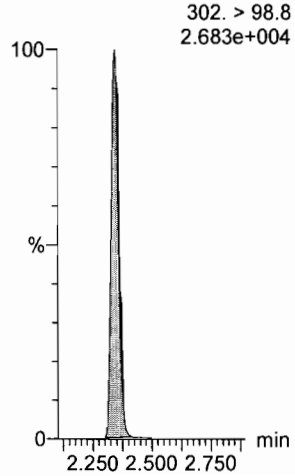
13C2-6:2 FTS



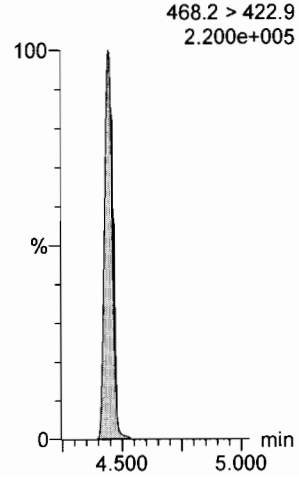
13C2-PFOA



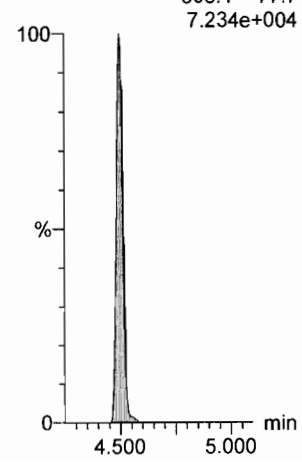
13C3-PFBS



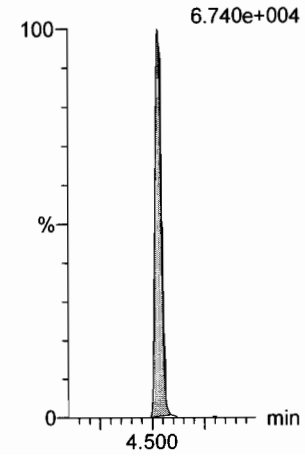
13C5-PFNA



13C8-PFOSA



13C8-PFOS

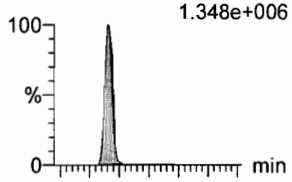


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

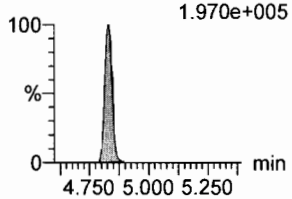
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

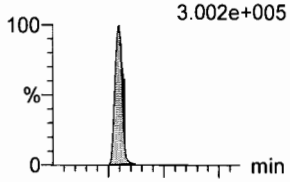
PFDA
F34:MRM of 2 channels,ES-
513 > 468.8
1.348e+006



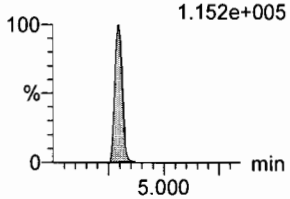
F34:MRM of 2 channels,ES-
513 > 219
1.970e+005



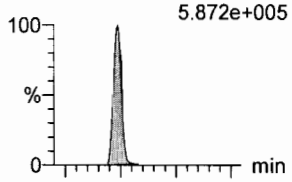
8:2 FTS
F39:MRM of 2 channels,ES-
527 > 506.9
3.002e+005



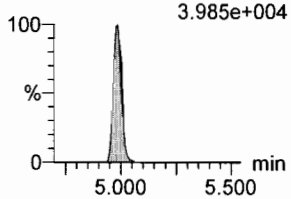
F39:MRM of 2 channels,ES-
527 > 80
1.152e+005



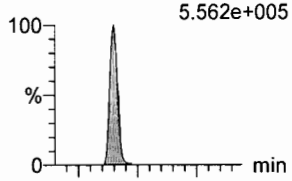
N-MeFOSAA
F44:MRM of 2 channels,ES-
570.1 > 419
5.872e+005



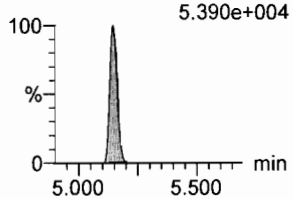
F44:MRM of 2 channels,ES-
570.1 > 483.0
3.985e+004



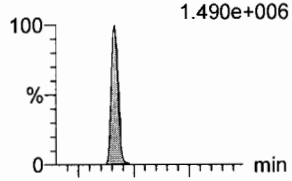
N-EtFOSAA
F47:MRM of 2 channels,ES-
584.2 > 419
5.562e+005



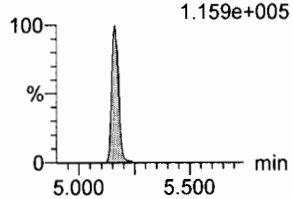
F47:MRM of 2 channels,ES-
584.2 > 483.0
5.390e+004



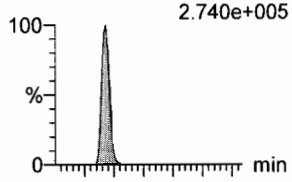
PFUdA
F42:MRM of 2 channels,ES-
563.0 > 518.9
1.490e+006



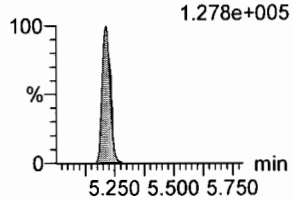
F42:MRM of 2 channels,ES-
563.0 > 269
1.159e+005



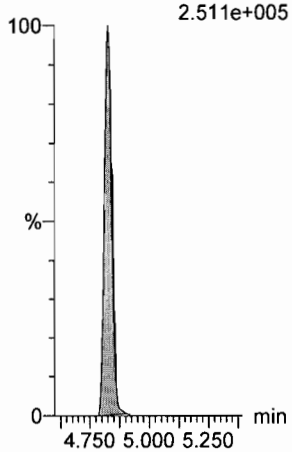
PFDS
F49:MRM of 2 channels,ES-
598.8 > 80
2.740e+005



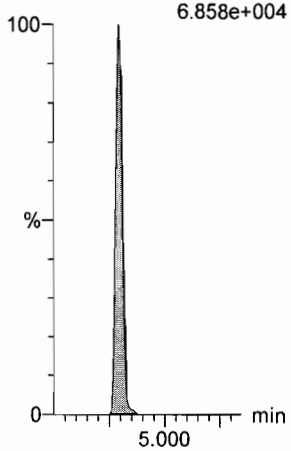
F49:MRM of 2 channels,ES-
598.8 > 98.7
1.278e+005



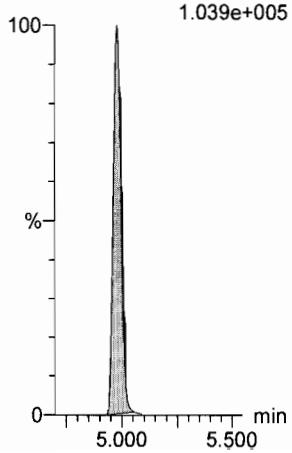
13C2-PFDA
F35:MRM of 1 channel,ES-
515.1 > 469.9
2.511e+005



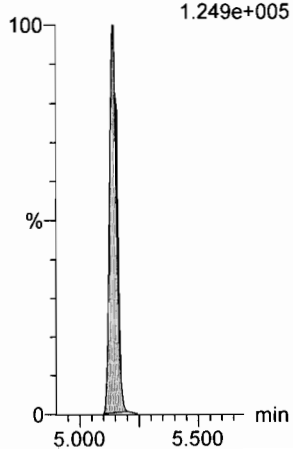
13C2-8:2 FTS
F40:MRM of 1 channel,ES-
529.1 > 508.7
6.858e+004



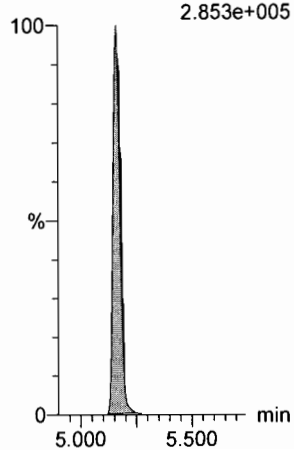
d3-N-MeFOSAA
F46:MRM of 1 channel,ES-
573.3 > 419
1.039e+005



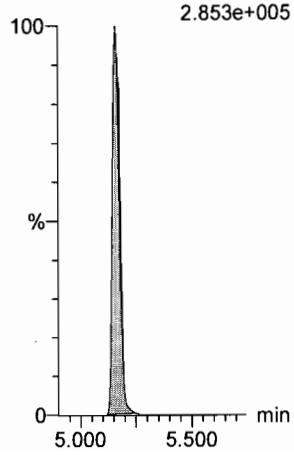
d5-N-EtFOSAA
F48:MRM of 1 channel,ES-
589.3 > 419
1.249e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
2.853e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
2.853e+005



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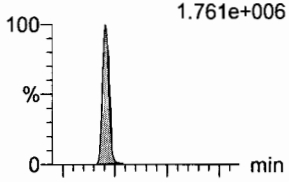
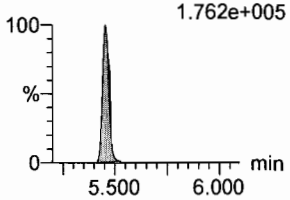
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

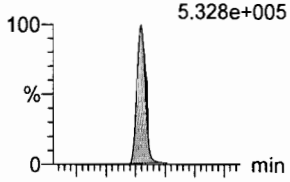
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
1.761e+006



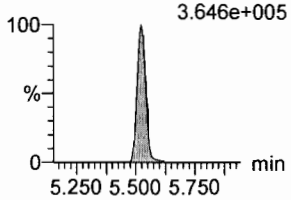
F50:MRM of 2 channels,ES-
612.9 > 318.8
1.762e+005



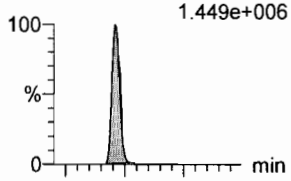
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
5.328e+005



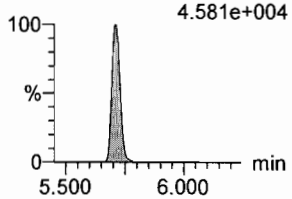
F33:MRM of 2 channels,ES-
512.1 > 219
3.646e+005



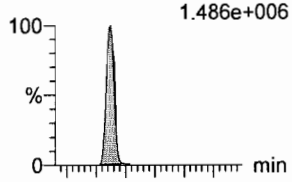
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
1.449e+006



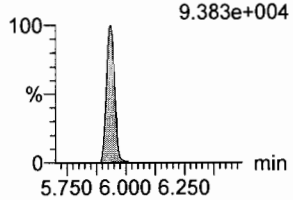
F56:MRM of 2 channels,ES-
662.9 > 319
4.581e+004



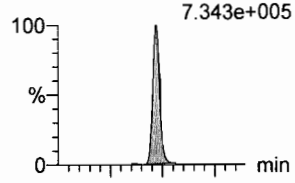
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
1.486e+006



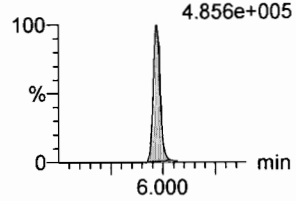
F57:MRM of 2 channels,ES-
712.9 > 369
9.383e+004



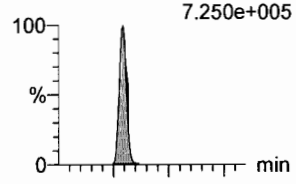
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
7.343e+005



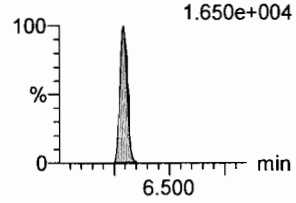
F38:MRM of 2 channels,ES-
526.1 > 219
4.856e+005



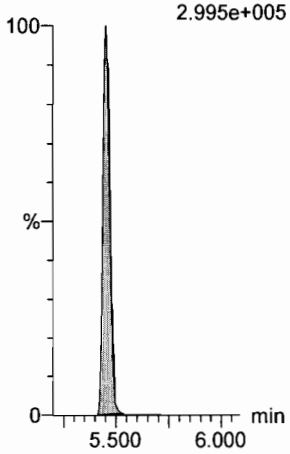
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
7.250e+005



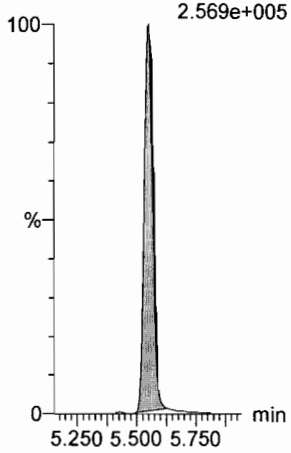
F59:MRM of 2 channels,ES-
813.1 > 219
1.650e+004



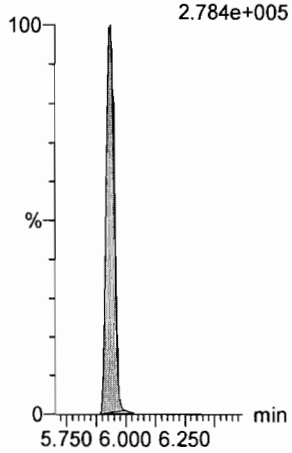
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
2.995e+005



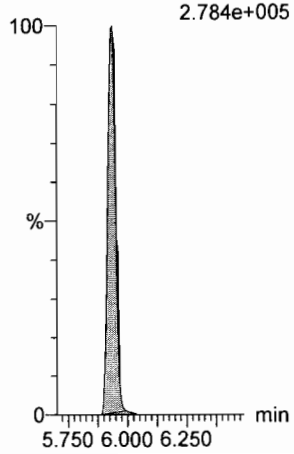
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.569e+005



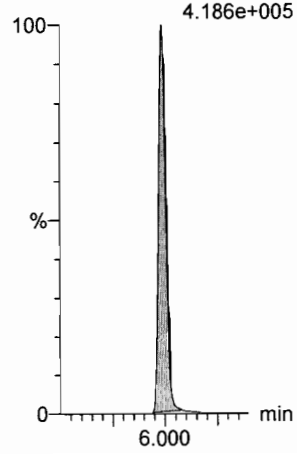
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.784e+005



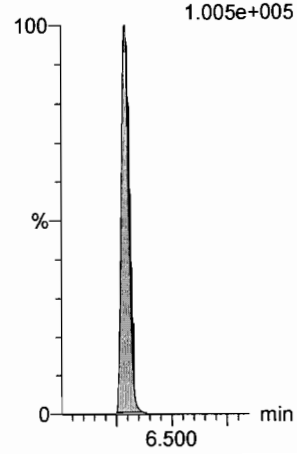
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.784e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.186e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.005e+005

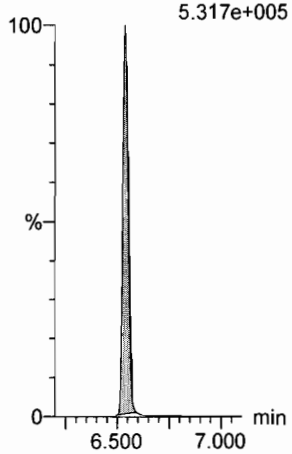


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

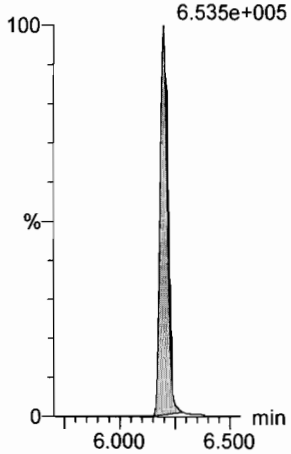
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

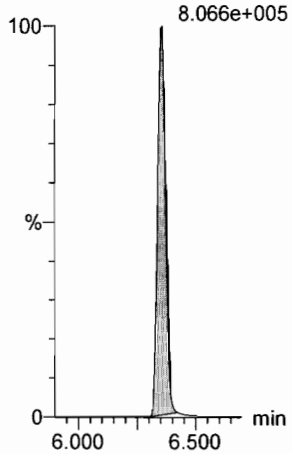
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
5.317e+005



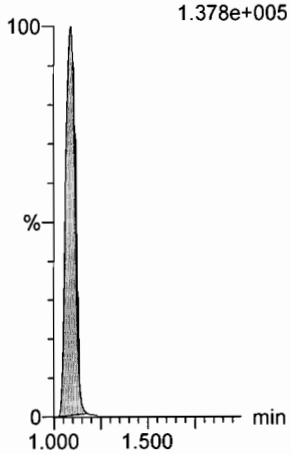
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
6.535e+005



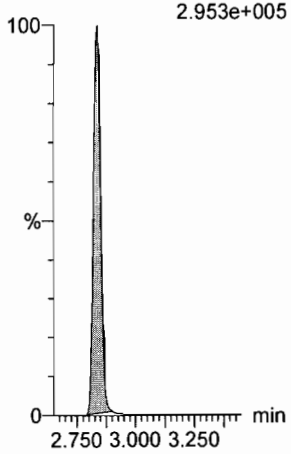
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
8.066e+005



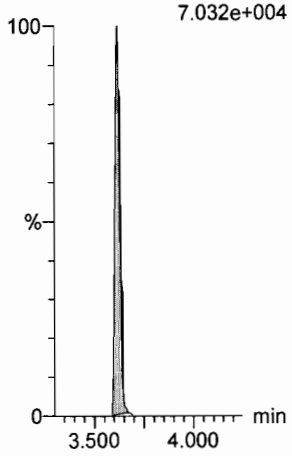
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.378e+005



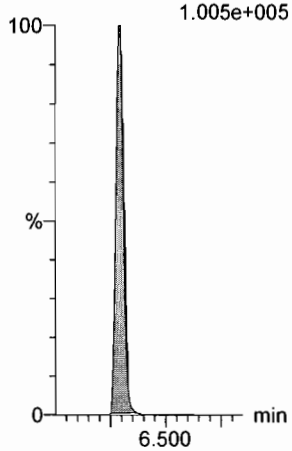
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
2.953e+005



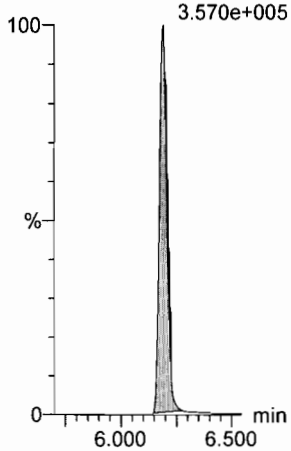
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
7.032e+004



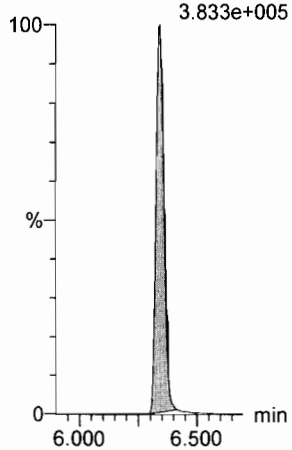
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.005e+005



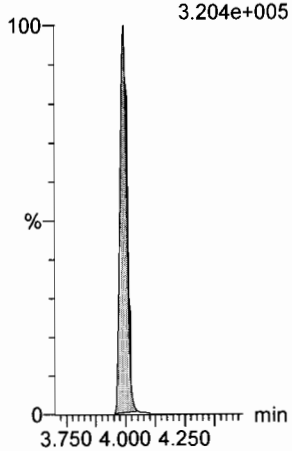
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.570e+005



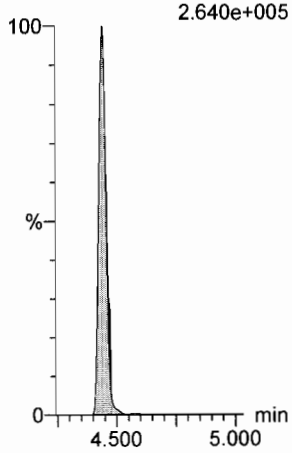
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.833e+005



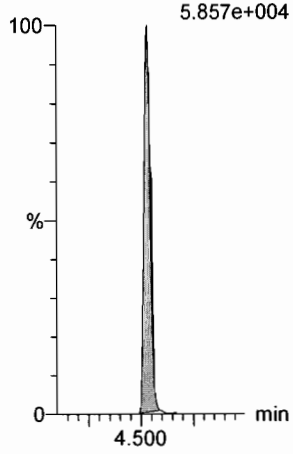
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
3.204e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.640e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
5.857e+004

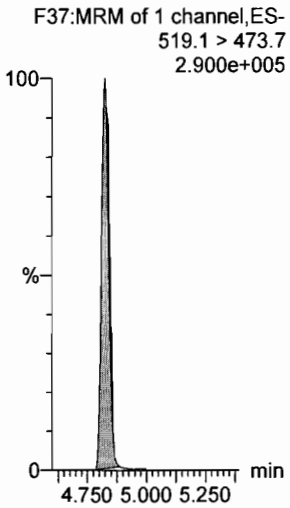


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_8, Date: 01-Nov-2017, Time: 16:03:19, ID: ST171101M2-7 PFC CS4 17J2711, Description: PFC CS4 17J2711

13C6-PFDA

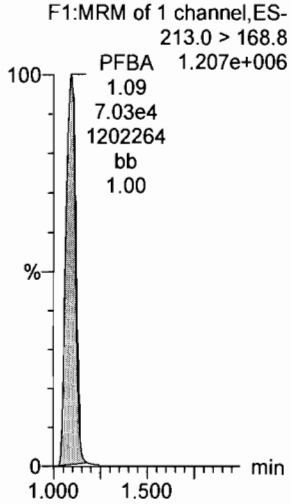


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

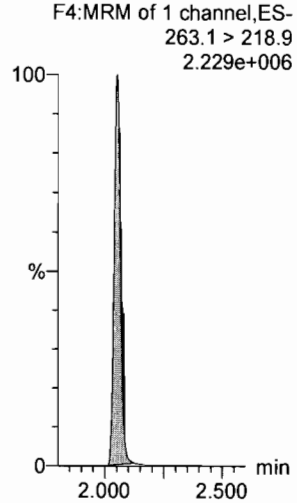
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

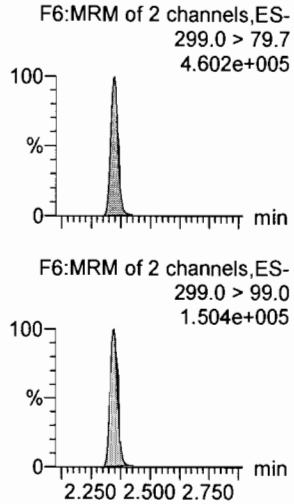
PFBA



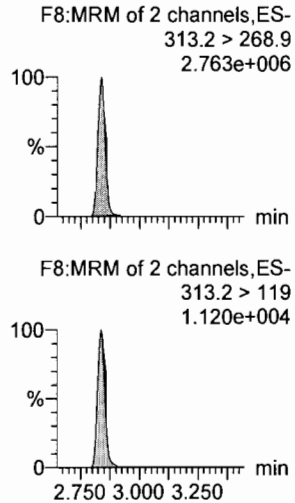
PFPeA



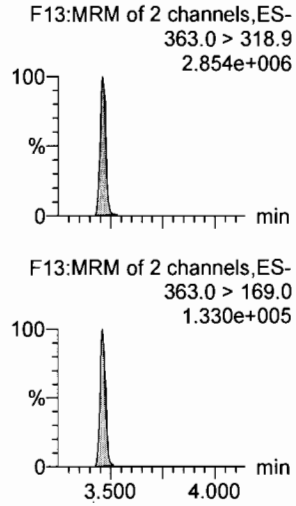
PFBS



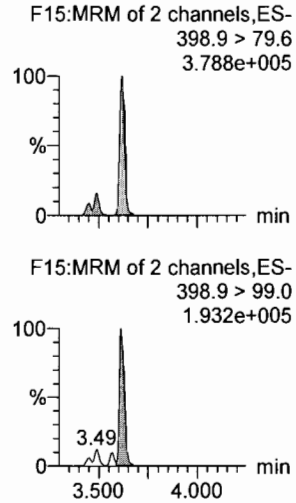
PFHxA



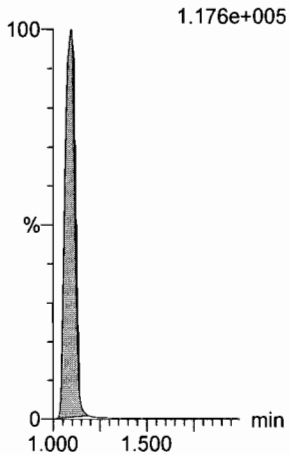
PFHpA



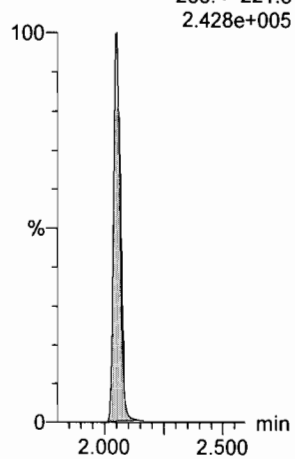
L-PFHxS



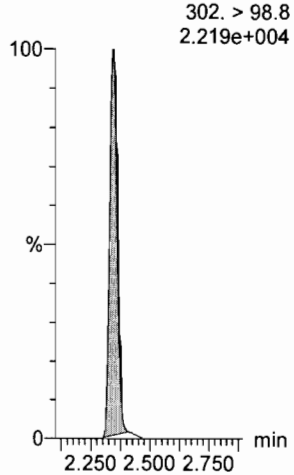
13C3-PFBA



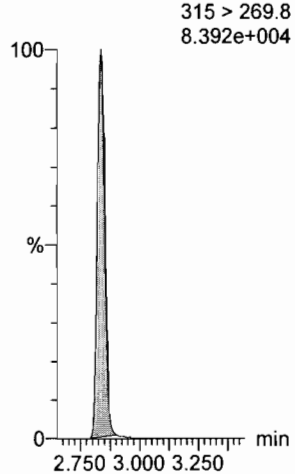
13C3-PFPeA



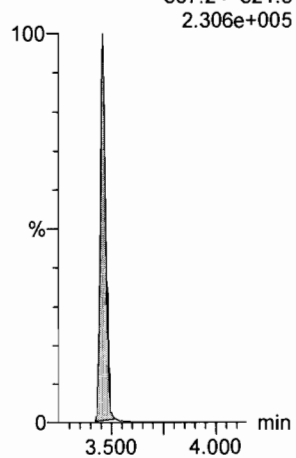
13C3-PFBS



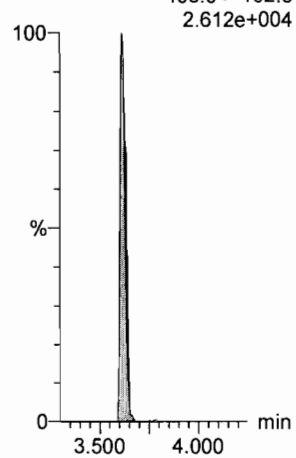
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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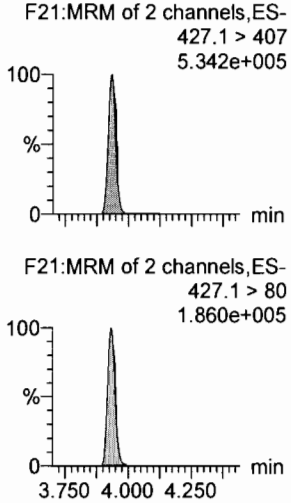
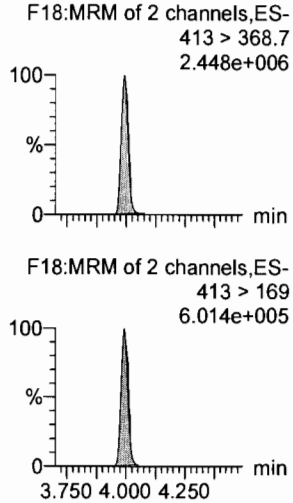
Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

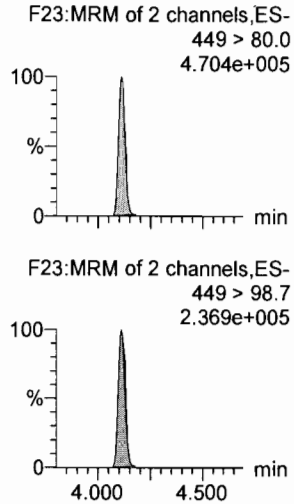
6:2 FTS



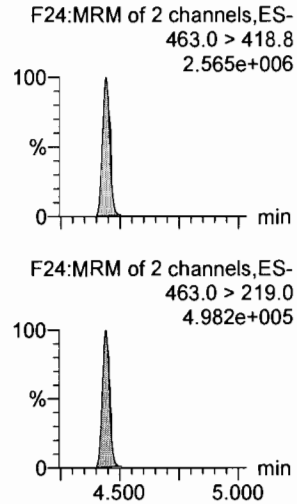
L-PFOA



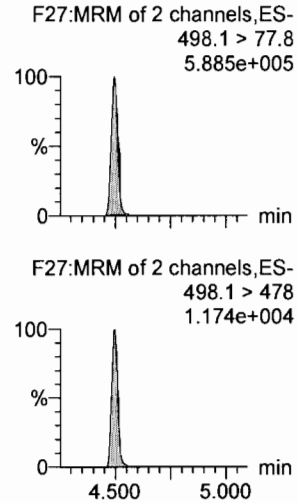
PFHpS



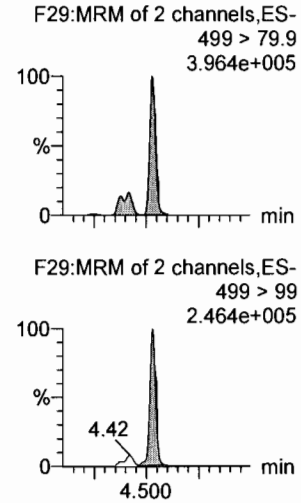
PFNA



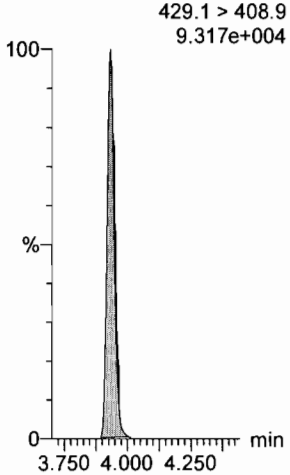
PFOSA



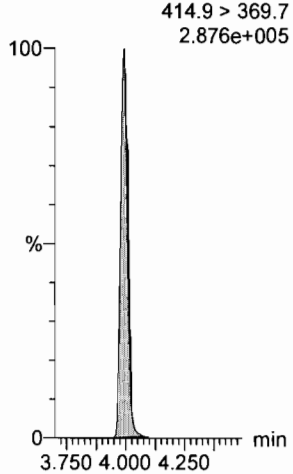
L-PFOS



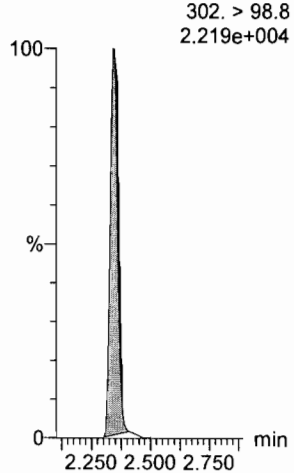
13C2-6:2 FTS



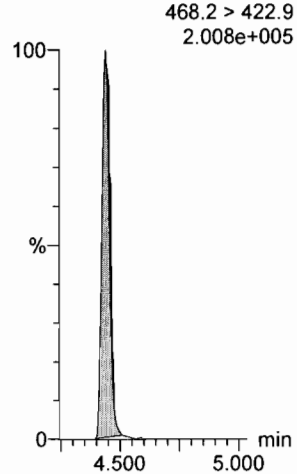
13C2-PFOA



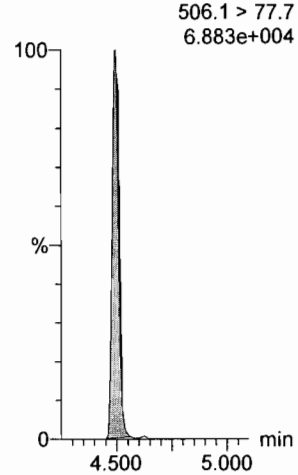
13C3-PFBS



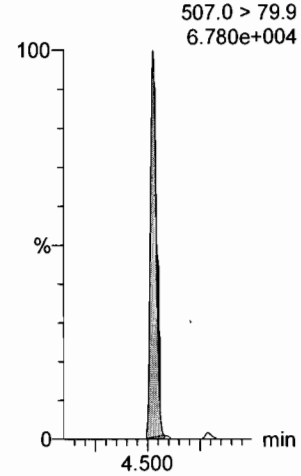
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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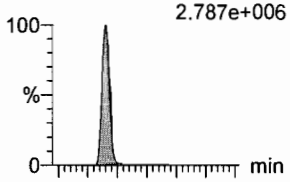
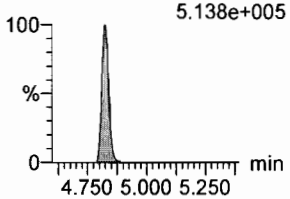
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

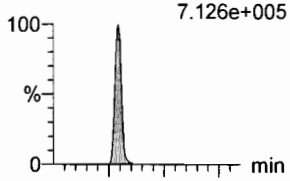
PFDA
F34:MRM of 2 channels,ES-
513 > 468.8
2.787e+006



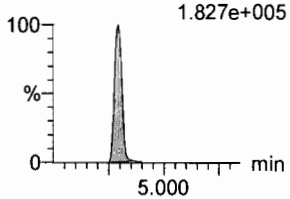
F34:MRM of 2 channels,ES-
513 > 219
5.138e+005



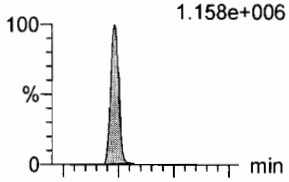
8:2 FTS
F39:MRM of 2 channels,ES-
527 > 506.9
7.126e+005



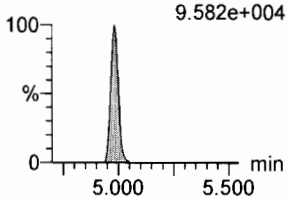
F39:MRM of 2 channels,ES-
527 > 80
1.827e+005



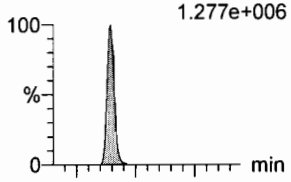
N-MeFOSAA
F44:MRM of 2 channels,ES-
570.1 > 419
1.158e+006



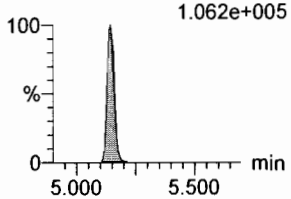
F44:MRM of 2 channels,ES-
570.1 > 483.0
9.582e+004



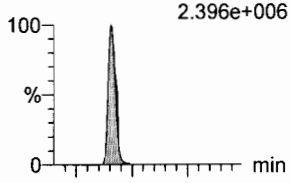
N-EtFOSAA
F47:MRM of 2 channels,ES-
584.2 > 419
1.277e+006



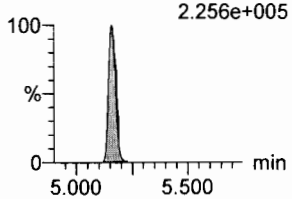
F47:MRM of 2 channels,ES-
584.2 > 483.0
1.062e+005



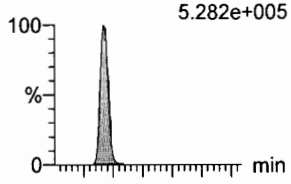
PFUdA
F42:MRM of 2 channels,ES-
563.0 > 518.9
2.396e+006



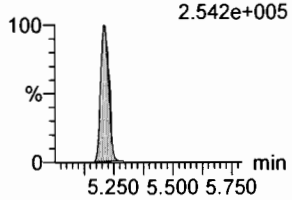
F42:MRM of 2 channels,ES-
563.0 > 269
2.256e+005



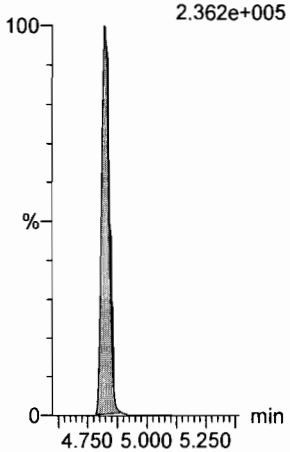
PFDS
F49:MRM of 2 channels,ES-
598.8 > 80
5.282e+005



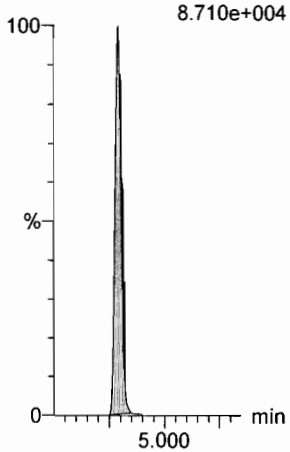
F49:MRM of 2 channels,ES-
598.8 > 98.7
2.542e+005



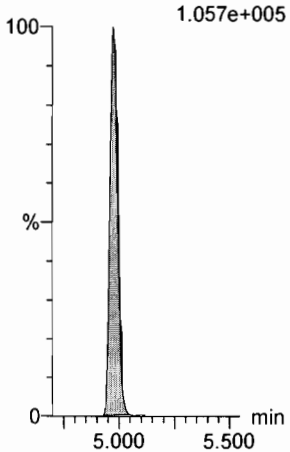
13C2-PFDA
F35:MRM of 1 channel,ES-
515.1 > 469.9
2.362e+005



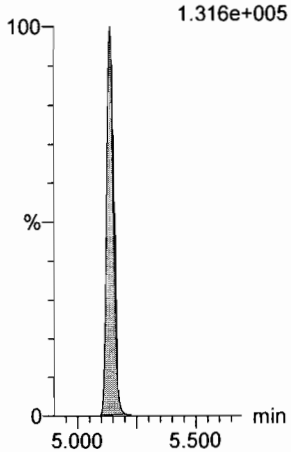
13C2-8:2 FTS
F40:MRM of 1 channel,ES-
529.1 > 508.7
8.710e+004



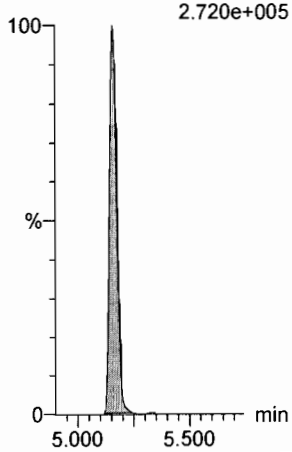
d3-N-MeFOSAA
F46:MRM of 1 channel,ES-
573.3 > 419
1.057e+005



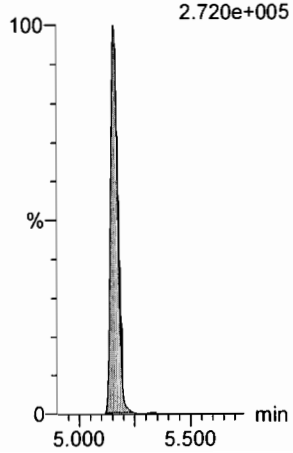
d5-N-EtFOSAA
F48:MRM of 1 channel,ES-
589.3 > 419
1.316e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
2.720e+005



13C2-PFUdA
F43:MRM of 1 channel,ES-
565 > 519.8
2.720e+005



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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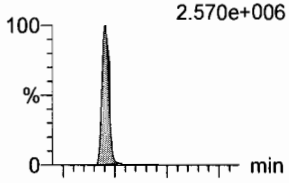
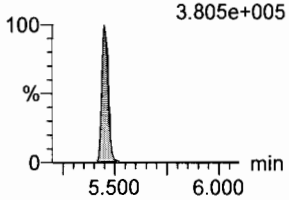
Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

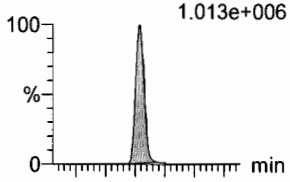
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
2.570e+006



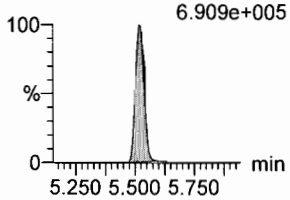
F50:MRM of 2 channels,ES-
612.9 > 318.8
3.805e+005



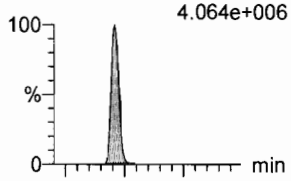
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
1.013e+006



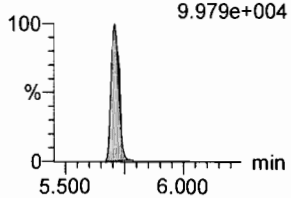
F33:MRM of 2 channels,ES-
512.1 > 219
6.909e+005



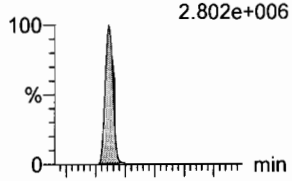
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
4.064e+006



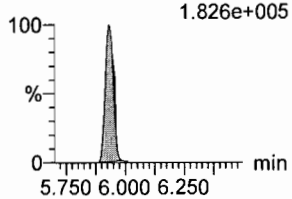
F56:MRM of 2 channels,ES-
662.9 > 319
9.979e+004



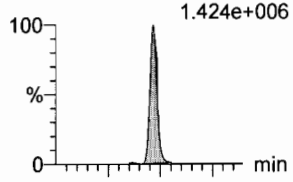
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
2.802e+006



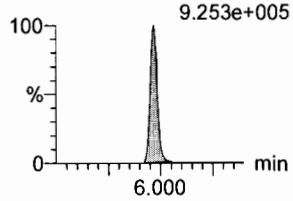
F57:MRM of 2 channels,ES-
712.9 > 369
1.826e+005



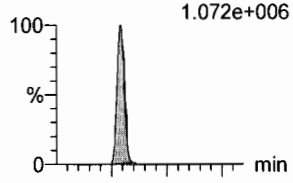
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
1.424e+006



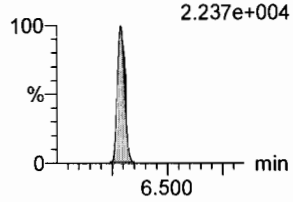
F38:MRM of 2 channels,ES-
526.1 > 219
9.253e+005



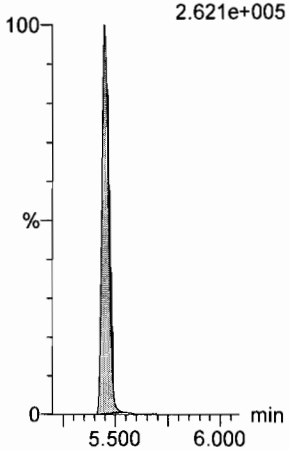
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.072e+006



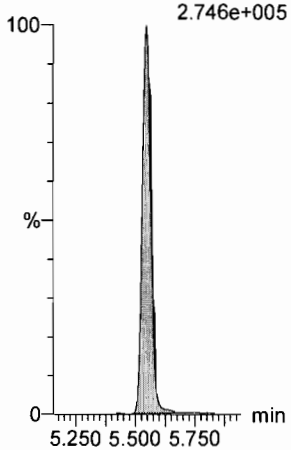
F59:MRM of 2 channels,ES-
813.1 > 219
2.237e+004



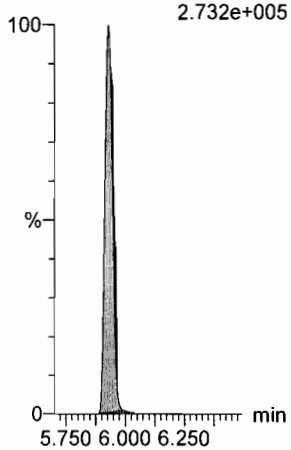
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
2.621e+005



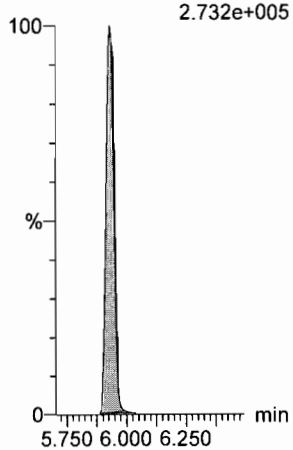
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.746e+005



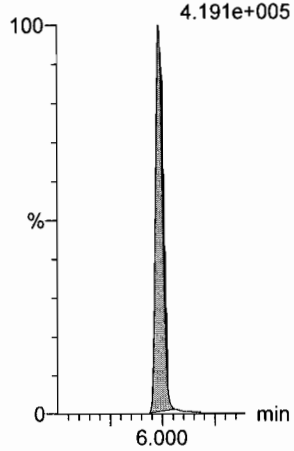
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.732e+005



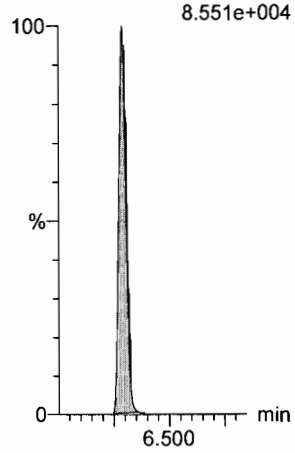
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.732e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.191e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
8.551e+004



Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
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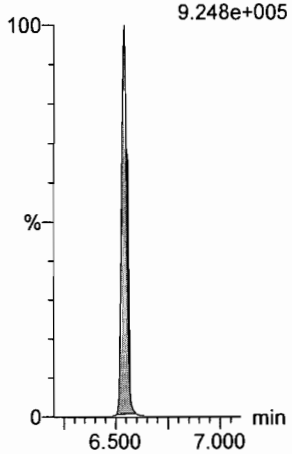
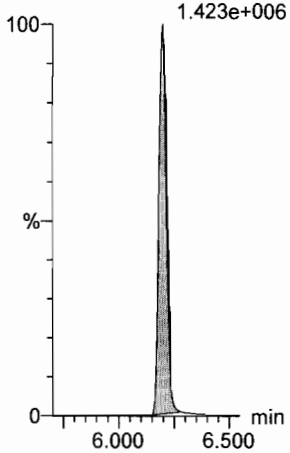
Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

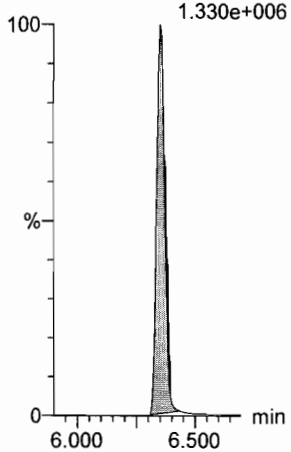
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
9.248e+005



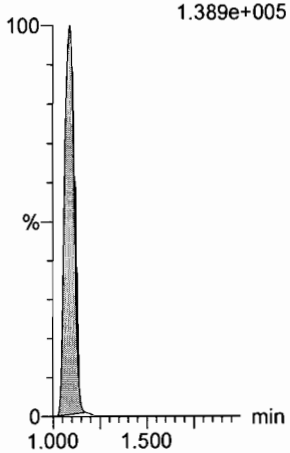
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
1.423e+006



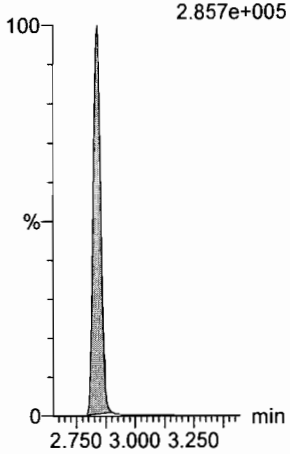
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
1.330e+006



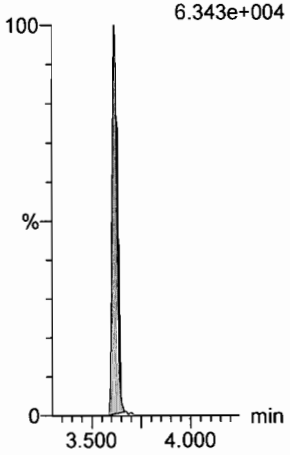
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.389e+005



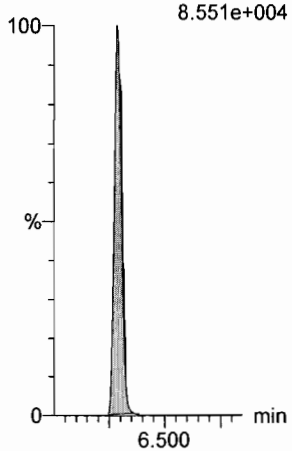
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
2.857e+005



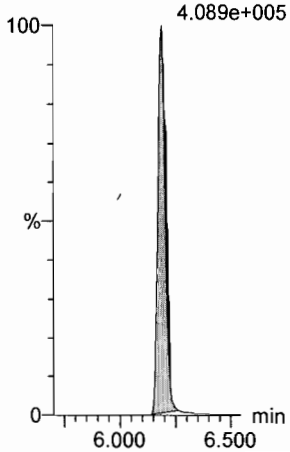
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
6.343e+004



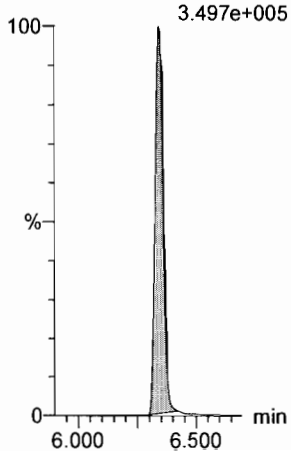
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
8.551e+004



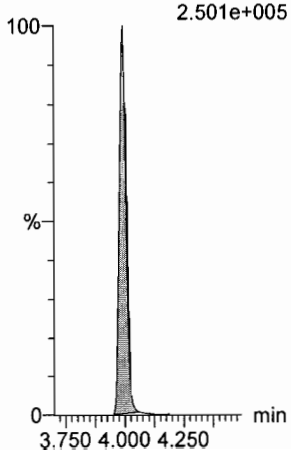
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
4.089e+005



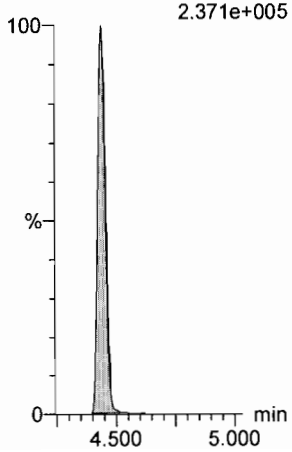
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.497e+005



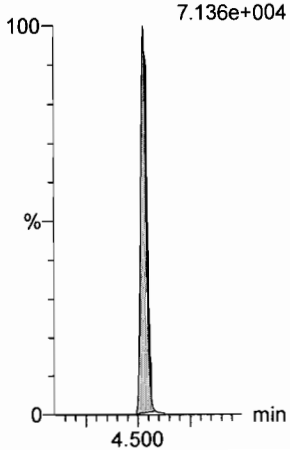
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.501e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.371e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
7.136e+004

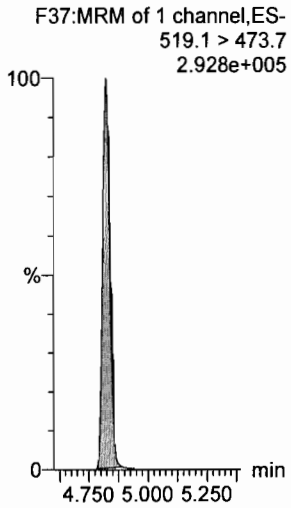


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_9, Date: 01-Nov-2017, Time: 16:14:30, ID: ST171101M2-8 PFC CS5 17J2712, Description: PFC CS5 17J2712

13C6-PFDA



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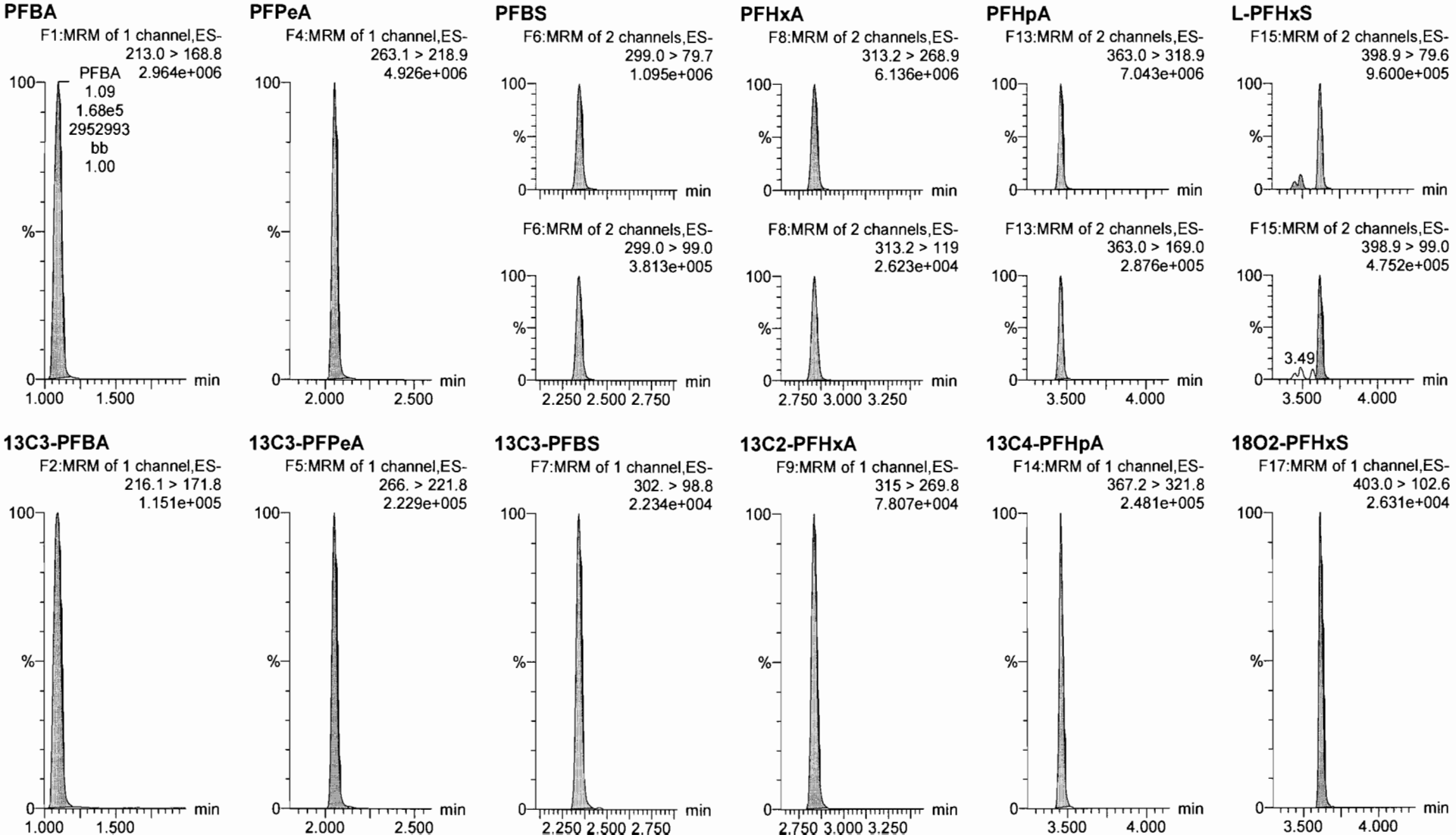
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713



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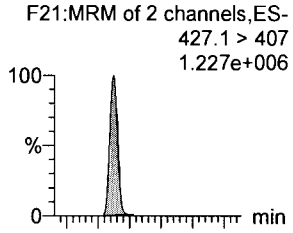
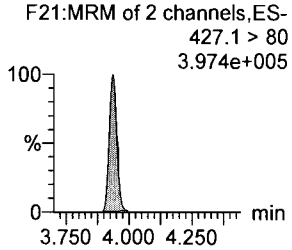
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

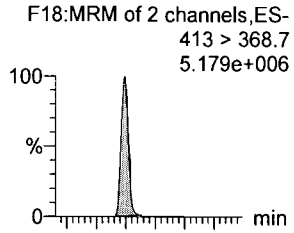
Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713

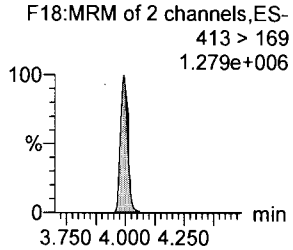
6:2 FTS



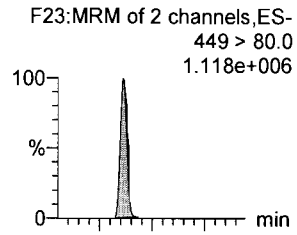


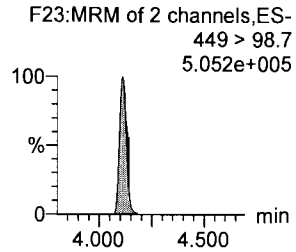
L-PFOA



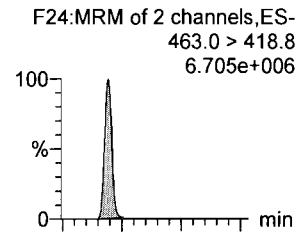


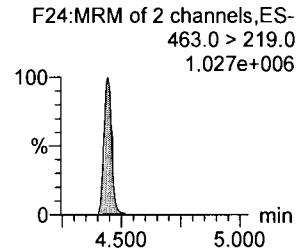
PFHpS



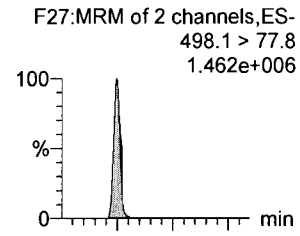


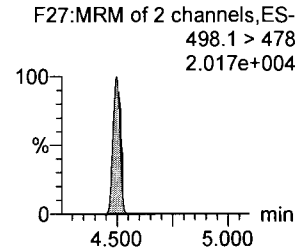
PFNA



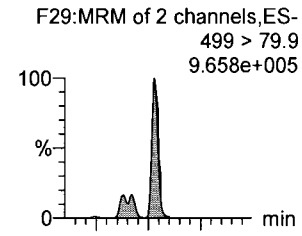


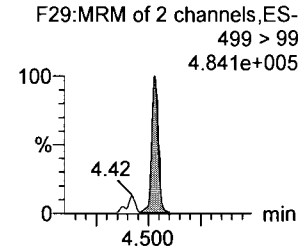
PFOSA



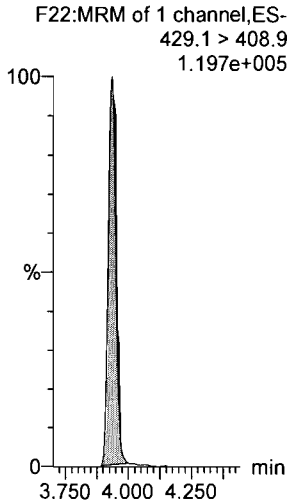


L-PFOS

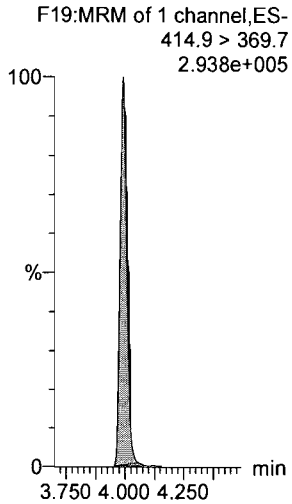




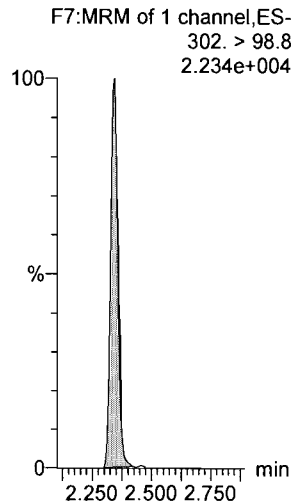
13C2-6:2 FTS



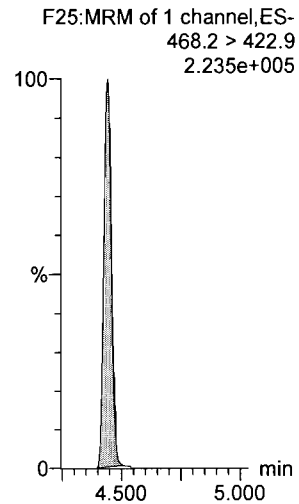
13C2-PFOA



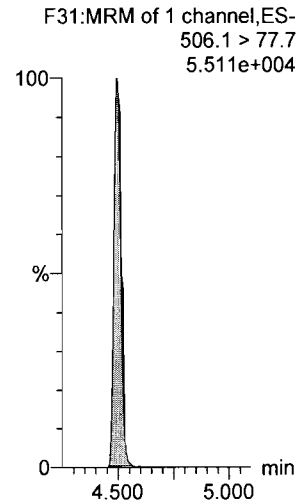
13C3-PFBS



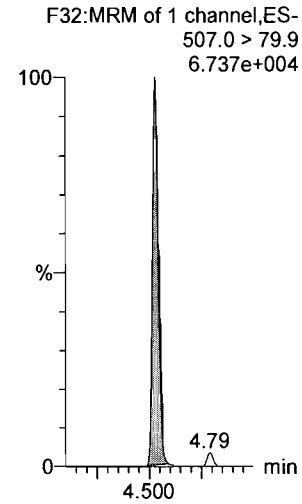
13C5-PFNA



13C8-PFOSA



13C8-PFOS

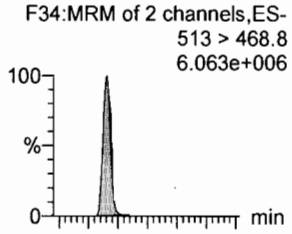


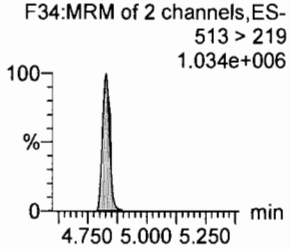
Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

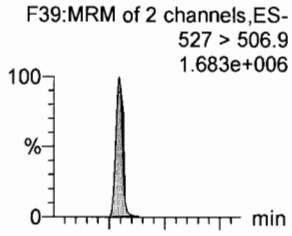
Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713

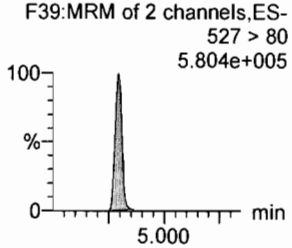
PFDA





8:2 FTS





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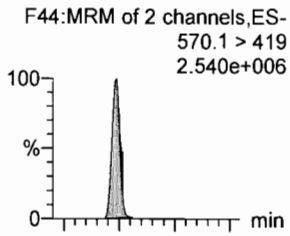
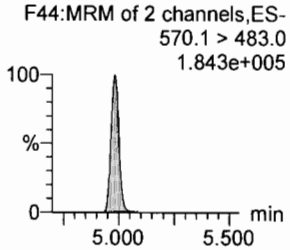
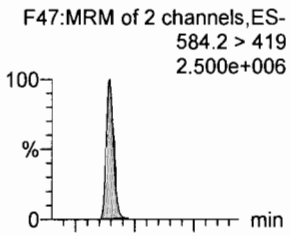
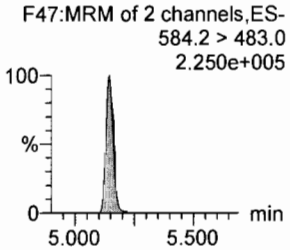


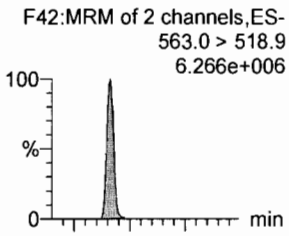


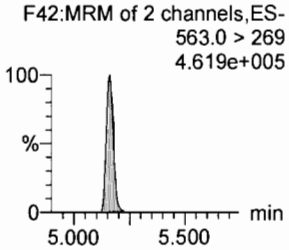
N-EtFOSAA



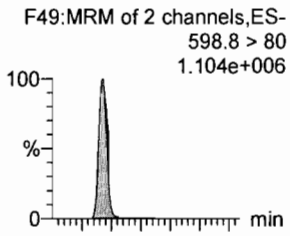


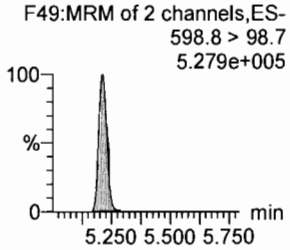
PFUdA



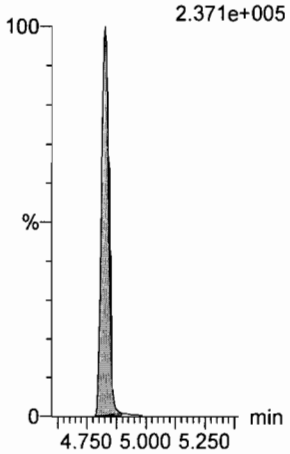


PFDS

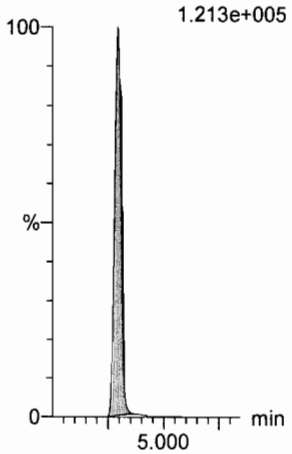




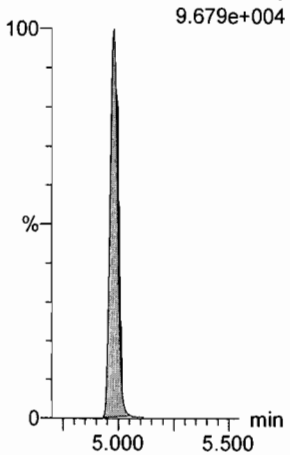
13C2-PFDA



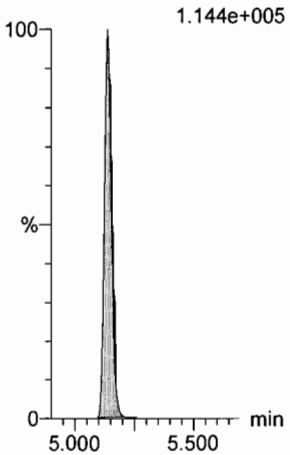
13C2-8:2 FTS



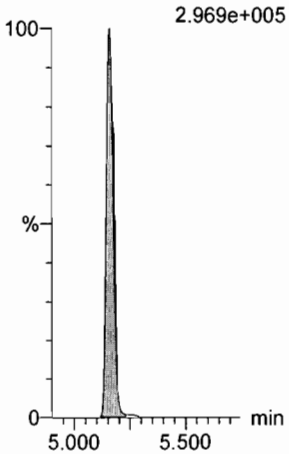
d3-N-MeFOSAA



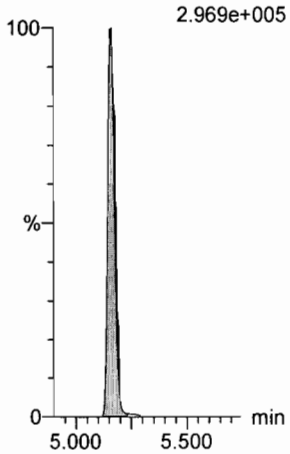
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



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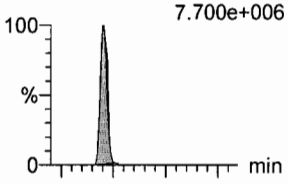
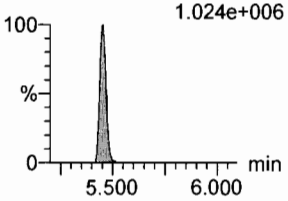
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713

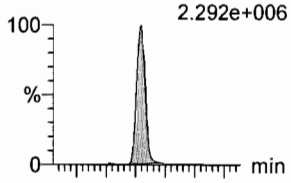
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
7.700e+006



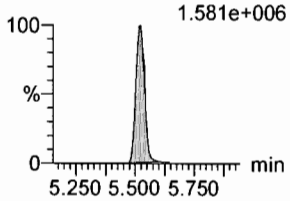
F50:MRM of 2 channels,ES-
612.9 > 318.8
1.024e+006



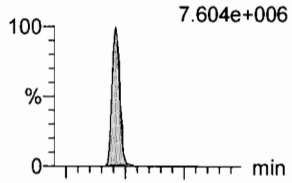
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
2.292e+006



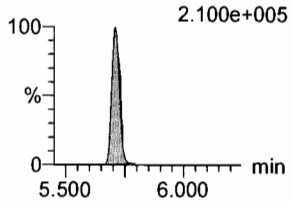
F33:MRM of 2 channels,ES-
512.1 > 219
1.581e+006



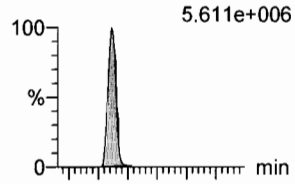
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
7.604e+006



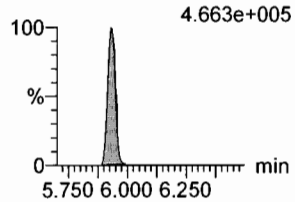
F56:MRM of 2 channels,ES-
662.9 > 319
2.100e+005



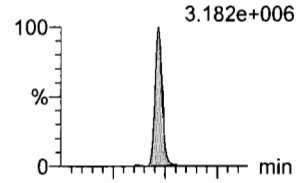
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
5.611e+006



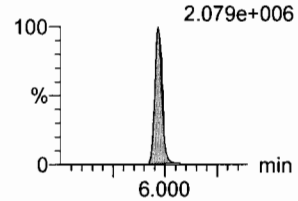
F57:MRM of 2 channels,ES-
712.9 > 369
4.663e+005



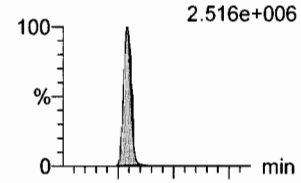
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
3.182e+006



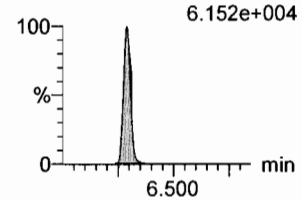
F38:MRM of 2 channels,ES-
526.1 > 219
2.079e+006



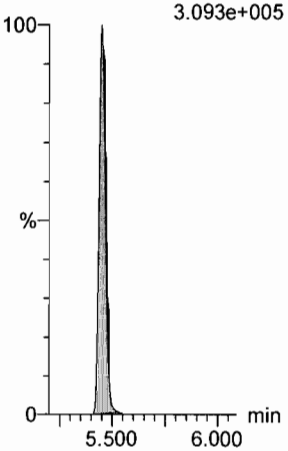
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
2.516e+006



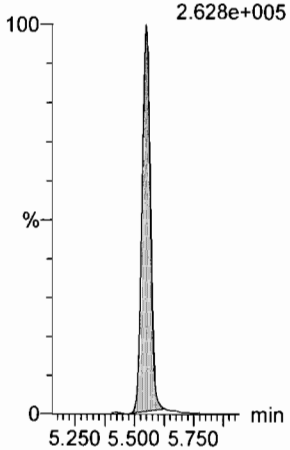
F59:MRM of 2 channels,ES-
813.1 > 219
6.152e+004



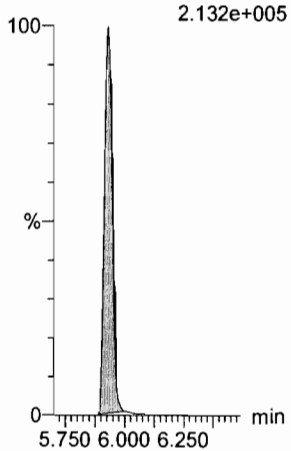
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
3.093e+005



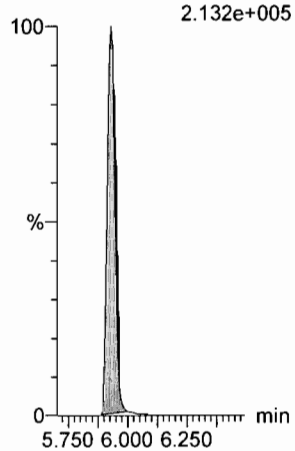
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.628e+005



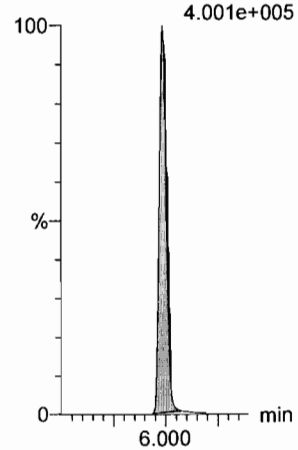
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.132e+005



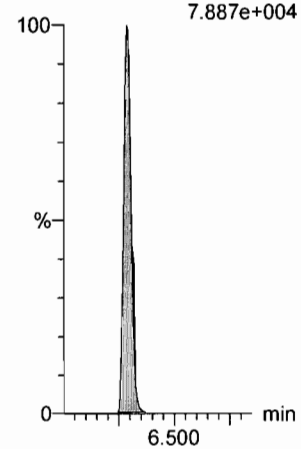
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
2.132e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.001e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
7.887e+004

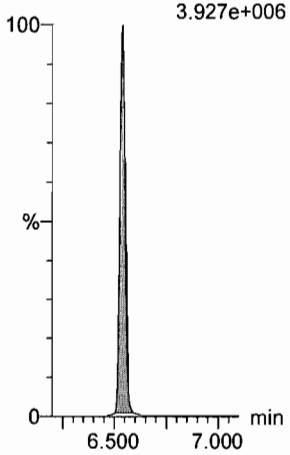


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

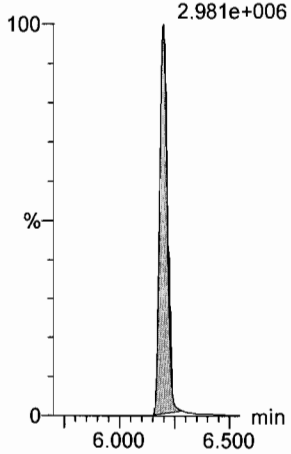
Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713

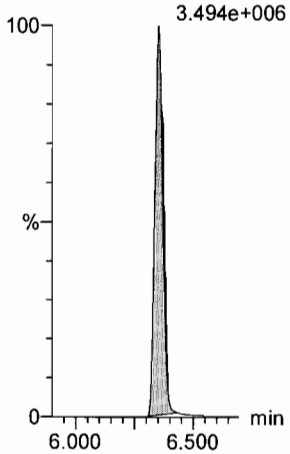
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
3.927e+006



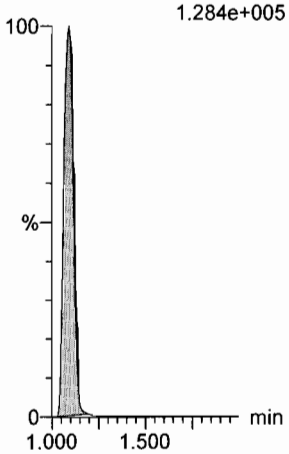
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
2.981e+006



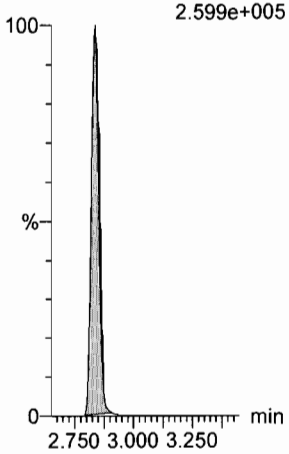
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
3.494e+006



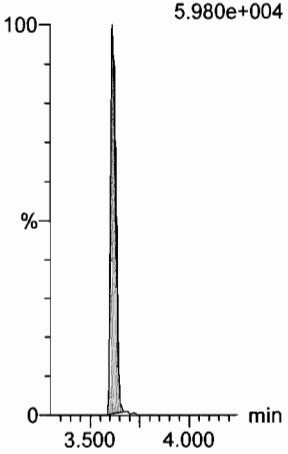
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.284e+005



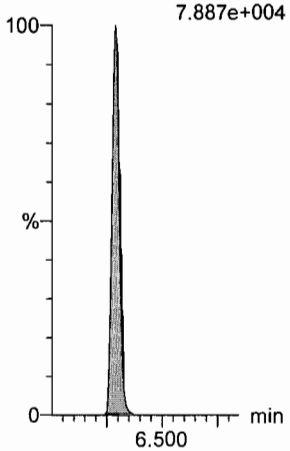
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
2.599e+005



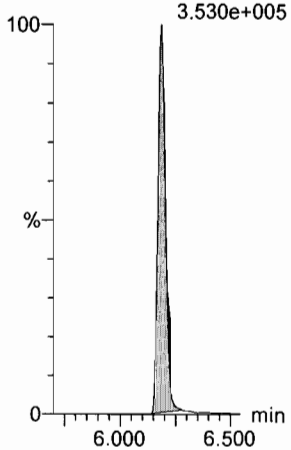
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
5.980e+004



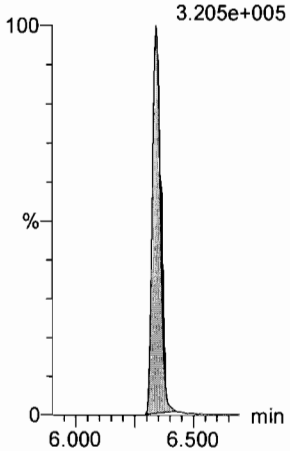
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
7.887e+004



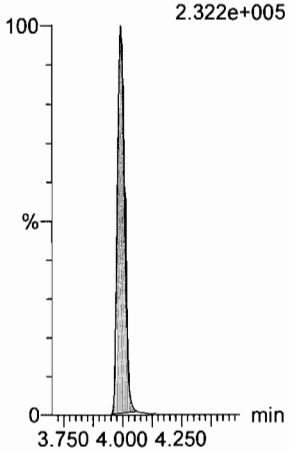
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.530e+005



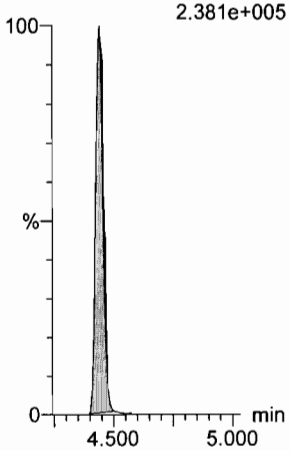
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.205e+005



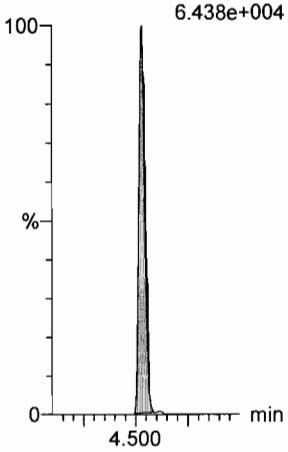
13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
2.322e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
2.381e+005



13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.438e+004

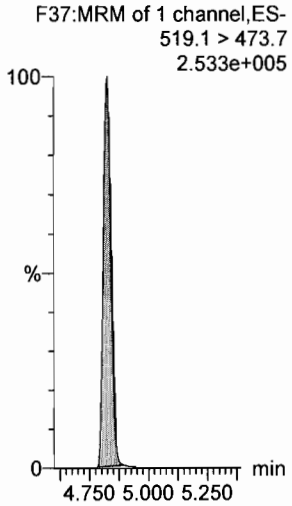


Dataset: U:\Q4.PRO\results\171101M2\171101M2-CRV.qld

Last Altered: Thursday, November 02, 2017 12:46:03 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:01:26 Pacific Daylight Time

Name: 171101M2_10, Date: 01-Nov-2017, Time: 16:25:40, ID: ST171101M2-9 PFC CS6 17J2713, Description: PFC CS6 17J2713

13C6-PFDA



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

Dataset: U:\Q4.PRO\results\171101M2\171101M2-13.qld

Last Altered: Thursday, November 02, 2017 13:11:53 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

(A) Not m/cV.

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_102717.mdb 01 Nov 2017 11:32:51
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	6.33e3	7.37e3		1.17	1.09	10.7	8.71	87.1
2	2	PFPeA	263.1 > 218.9	6.30e3	7.75e3		2.15	2.05	10.2	8.94	89.4
3	3	PFBS	299.0 > 79.7	1.40e3	9.69e2		2.44	2.34	18.0	7.39	73.9
4	4	PFHxA	313.2 > 268.9	8.60e3	3.09e3		2.93	2.83	13.9	8.46	84.6
5	5	PFHpA	363.0 > 318.9	7.63e3	7.35e3		3.56	3.46	13.0	8.60	86.0
6	6	L-PFHxS	398.9 > 79.6	1.16e3	8.22e2		3.71	3.62	17.6	7.60	76.0
7	8	6:2 FTS	427.1 > 407	1.50e3	2.39e3		4.03	3.93	7.83	7.33	73.3
8	9	L-PFOA	413 > 368.7	7.87e3	1.04e4		4.05	3.99	9.42	9.29	92.9
9	11	PFHpS	449 > 80.0	1.48e3	1.04e4		4.20	4.11	1.77	8.16	81.6
10	12	PFNA	463.0 > 418.8	8.67e3	9.19e3		4.55	4.44	11.8	8.08	80.8
11	13	PFOSA	498.1 > 77.8	1.80e3	1.91e3		4.59	4.50	11.7	10.2	102.2
12	14	L-PFOS	499 > 79.9	1.37e3	2.16e3		4.63	4.53	7.93	7.58	75.8
13	16	PFDA	513 > 468.8	9.94e3	9.19e3		4.92	4.82	13.5	9.07	90.7
14	17	8:2 FTS	527 > 506.9	1.92e3	1.66e3		4.89	4.79	14.5	8.02	80.2
15	18	N-MeFOSAA	570.1 > 419	4.60e3	3.68e3		5.08	4.98	15.6	10.2	101.6
16	19	N-EtFOSAA	584.2 > 419	4.35e3	4.66e3		5.24	5.14	11.7	9.00	90.0
17	20	PFUdA	563.0 > 518.9	8.29e3	1.02e4		5.25	5.16	10.2	8.57	85.7
18	21	PFDS	598.8 > 80	1.55e3	1.02e4		5.31	5.21	1.90	7.44	74.4
19	22	PFDoA	612.9 > 569.0	1.00e4	1.27e4		5.55	5.45	9.86	7.48	74.8
20	23	N-MeFOSA	512.1 > 168.9		1.07e4		5.56				(A)
21	24	PFTrDA	662.9 > 618.9	1.15e4	1.27e4		5.80	5.70	11.3	8.96	89.6
22	25	PFTeDA	712.9 > 668.8	8.98e3	1.19e4		6.02	5.93	9.45	7.39	73.9
23	26	N-EtFOSA	526.1 > 168.9		1.70e4		6.01				
24	27	PFHxDA	813.1 > 768.6		3.76e3		6.32				(A)
25	28	PFODA	913.1 > 868.8		3.76e3		6.61				
26	29	N-MeFOSE	616.1 > 58.9		1.47e4		6.23				
27	30	N-EtFOSE	630.1 > 58.9		1.36e4		6.39				
28	31	13C3-PFBA	216.1 > 171.8	7.37e3	8.39e3	0.884	1.17	1.09	11.0	12.4	99.4
29	32	13C3-PFPeA	266. > 221.8	7.75e3	1.07e4	0.727	2.15	2.05	9.07	12.5	99.8
30	33	13C3-PFBS	302. > 98.8	9.69e2	1.07e4	0.083	2.44	2.34	1.13	13.7	109.5
31	34	13C2-PFHxA	315 > 269.8	3.09e3	1.07e4	0.703	2.93	2.83	3.61	5.14	102.9
32	35	13C4-PFHpA	367.2 > 321.8	7.35e3	1.07e4	0.656	3.56	3.46	8.60	13.1	104.9

70-130

50-150

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11/2/17

✓ JA.
11/02/2017

Dataset: U:\Q4.PRO\results\171101M2\171101M2-13.qld

Last Altered: Thursday, November 02, 2017 13:11:53 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	36	18O2-PFHxS	403.0 > 102.6	8.22e2	1.79e3	0.408	3.71	3.61	5.74	14.1	112.5
34	37	13C2-6:2 FTS	429.1 > 408.9	2.39e3	9.61e3	0.243	4.03	3.93	3.11	12.8	102.2
35	38	13C2-PFOA	414.9 > 369.7	1.04e4	9.61e3	1.076	4.05	3.99	13.6	12.6	101.0
36	39	13C5-PFNA	468.2 > 422.9	9.19e3	1.07e4	0.914	4.55	4.44	10.7	11.7	93.8
37	40	13C8-PFOSA	506.1 > 77.7	1.91e3	1.18e4	0.211	4.59	4.50	2.02	9.55	76.4
38	41	13C8-PFOS	507.0 > 79.9	2.16e3	2.08e3	0.982	4.63	4.53	13.0	13.2	105.5
39	42	13C2-PFDA	515.1 > 469.9	9.19e3	1.08e4	0.891	4.92	4.82	10.6	11.9	95.5
40	43	13C2-8:2 FTS	529.1 > 508.7	1.66e3	1.08e4	0.198	4.89	4.79	1.92	9.67	77.4
41	44	d3-N-MeFOSAA	573.3 > 419	3.68e3	1.18e4	0.361	5.08	4.97	3.88	10.8	86.1
42	45	d5-N-EtFOSAA	589.3 > 419	4.66e3	1.18e4	0.394	5.24	5.14	4.92	12.5	99.9
43	46	13C2-PFUdA	565 > 519.8	1.02e4	1.18e4	0.966	5.25	5.16	10.8	11.1	89.0
44	47	13C2-PFDoA	615.0 > 569.7	1.27e4	1.18e4	0.989	5.55	5.45	13.4	13.6	108.6
45	48	d3-N-MeFOSA	515.2 > 168.9	1.07e4	1.18e4	0.083	5.56	5.55	11.3	137	91.1
46	49	13C2-PFTeDA	714.8 > 669.6	1.19e4	1.18e4	0.927	6.02	5.93	12.5	13.5	108.1
47	50	d5-N-ETFOSA	531.1 > 168.9	1.70e4	1.18e4	0.125	6.01	5.99	17.9	144	95.8
48	51	13C2-PFHxDA	815 > 769.7	3.76e3	1.18e4	0.882	6.32	6.29	3.96	4.49	89.8
49	52	d7-N-MeFOSE	623.1 > 58.9	1.47e4	1.18e4	0.112	6.23	6.19	15.5	138	92.3
50	53	d9-N-EtFOSE	639.2 > 58.8	1.36e4	1.18e4	0.103	6.39	6.34	14.4	139	92.8
51	54	13C4-PFBA	217. > 171.8	8.39e3	8.39e3	1.000	1.17	1.09	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	1.07e4	1.07e4	1.000	2.93	2.83	12.5	12.5	100.0
53	56	13C3-PFHxS	401.9 > 79.9	1.79e3	1.79e3	1.000	3.71	3.61	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	9.61e3	9.61e3	1.000	4.05	3.99	12.5	12.5	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.07e4	1.07e4	1.000	4.55	4.44	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	2.08e3	2.08e3	1.000	4.63	4.53	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	1.08e4	1.08e4	1.000	4.92	4.82	12.5	12.5	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.18e4	1.18e4	1.000	5.25	5.16	12.5	12.5	100.0

70-150

Dataset: U:\Q4.PRO\results\171101M2\171101M2-13.qld

Last Altered: Thursday, November 02, 2017 13:11:53 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

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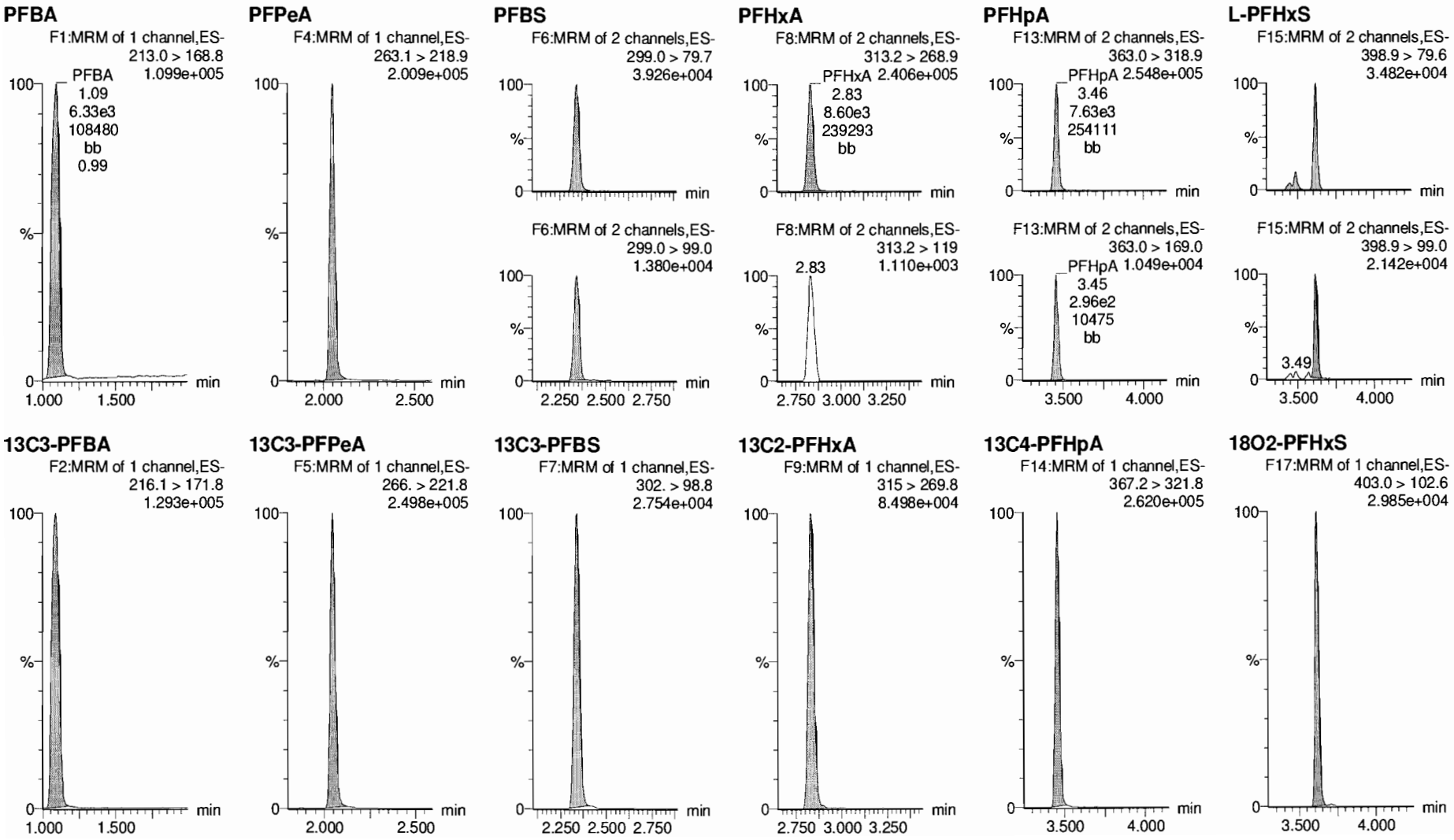
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_11-01-17-FULL_NEW.cdb 02 Nov 2017 13:07:10

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704



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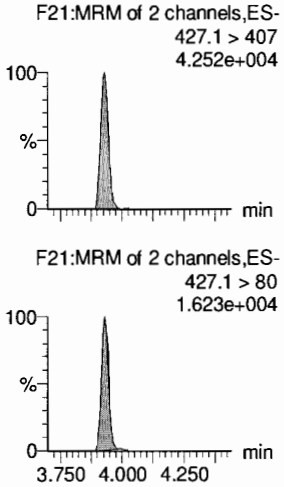
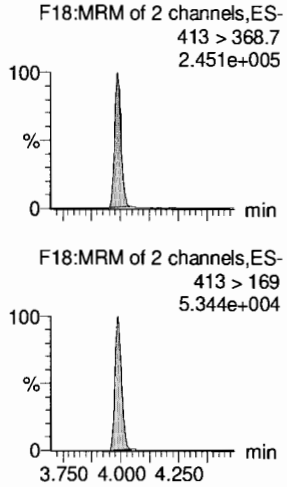
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

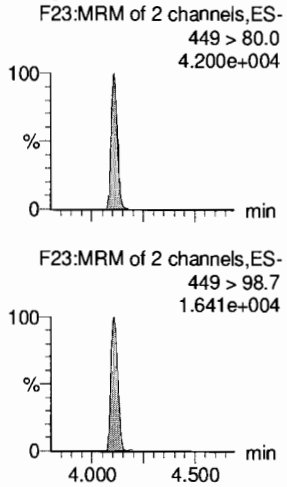
6:2 FTS



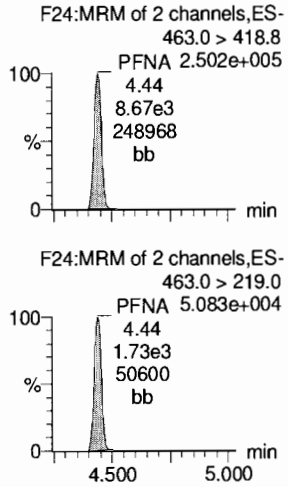
L-PFOA



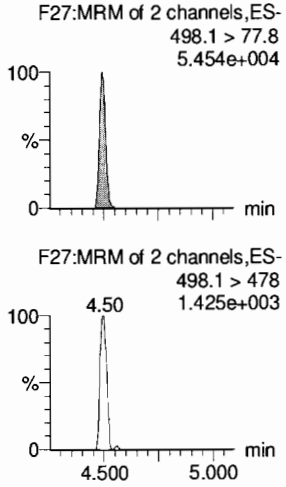
PFHpS



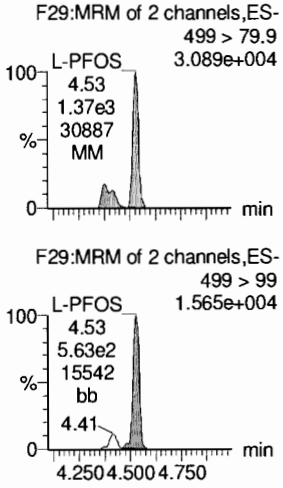
PFNA



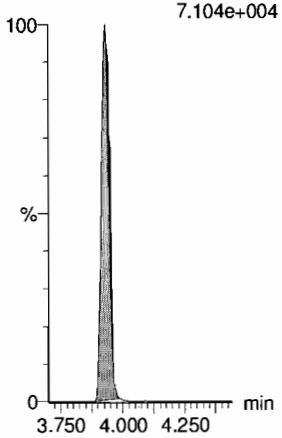
PFOSA



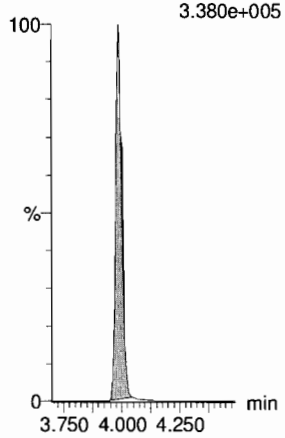
L-PFOS



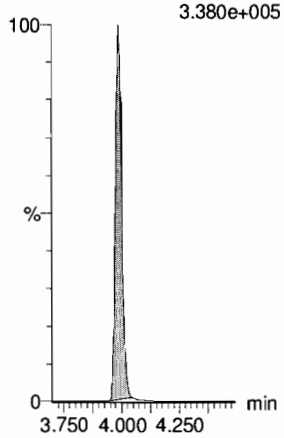
13C2-6:2 FTS



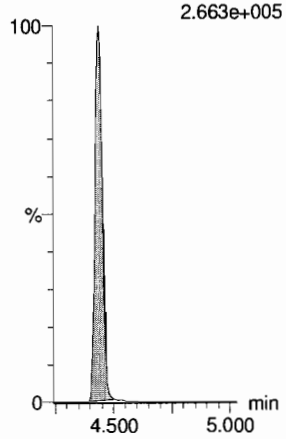
13C2-PFOA



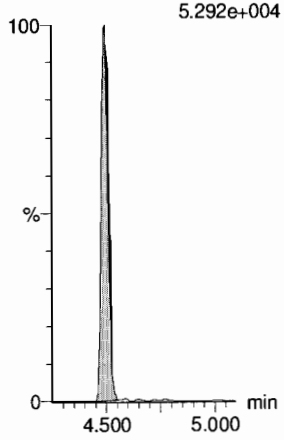
13C2-PFOA



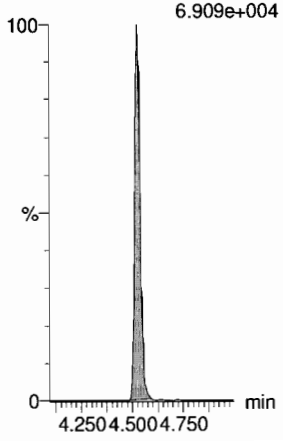
13C5-PFNA



13C8-PFOSA



13C8-PFOS

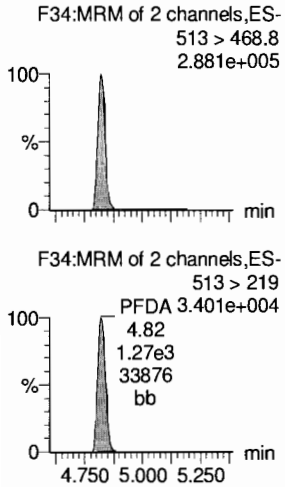


Dataset: U:\Q4.PRO\results\171101M2\171101M2-13.qld

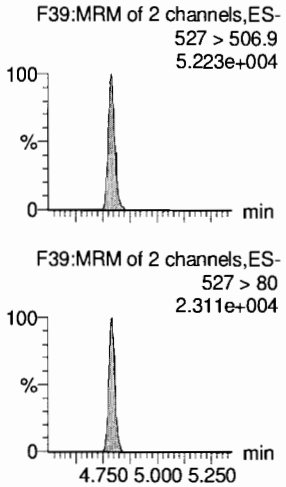
Last Altered: Thursday, November 02, 2017 13:11:53 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

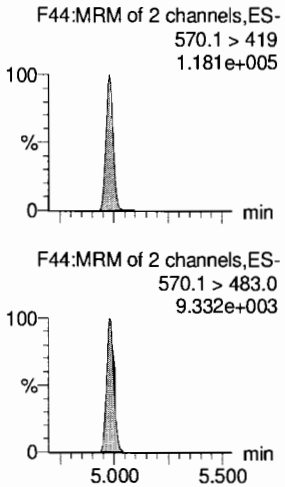
PFDA



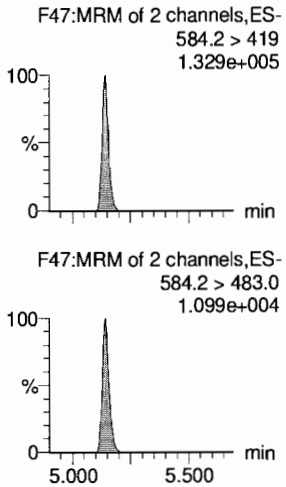
8:2 FTS



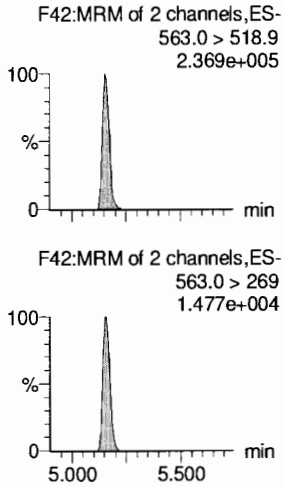
N-MeFOSAA



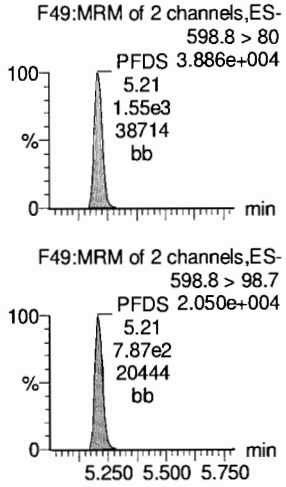
N-EtFOSAA



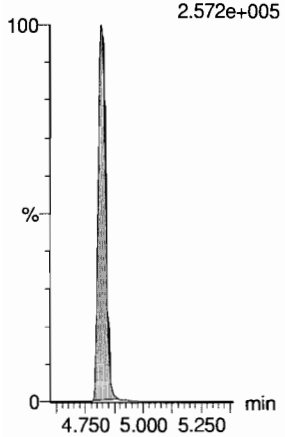
PFUdA



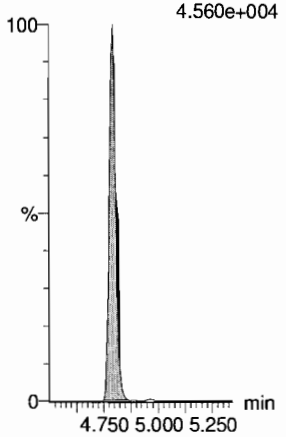
PFDS



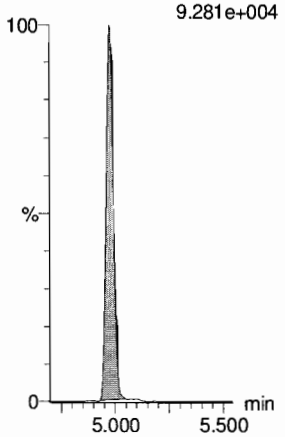
13C2-PFDA



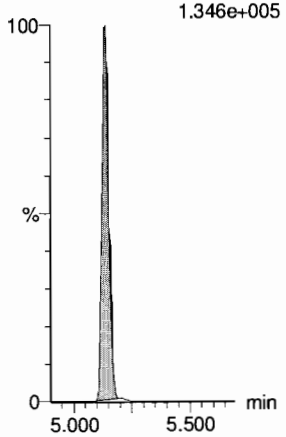
13C2-8:2 FTS



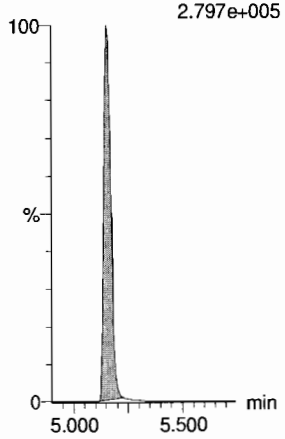
d3-N-MeFOSAA



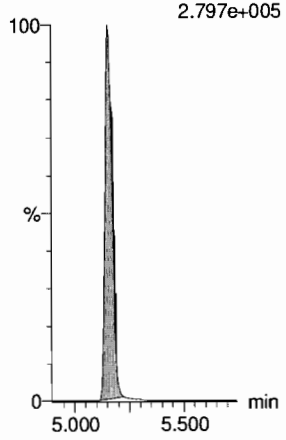
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA

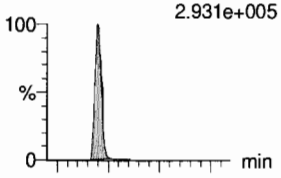


Dataset: U:\Q4.PRO\results\171101M2\171101M2-13.qld

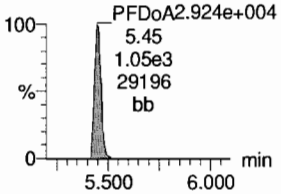
Last Altered: Thursday, November 02, 2017 13:11:53 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

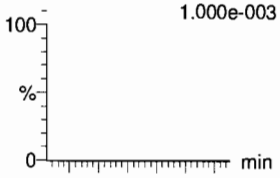
PFDoA
F50:MRM of 2 channels,ES-
612.9 > 569.0
2.931e+005



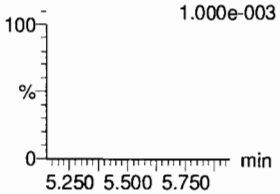
F50:MRM of 2 channels,ES-
612.9 > 318.8
PFDoA2.924e+004
5.45
1.05e3
29196
bb



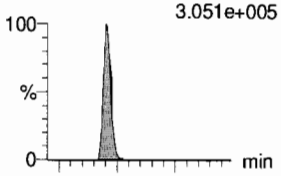
N-MeFOSA
F33:MRM of 2 channels,ES-
512.1 > 168.9
1.000e-003



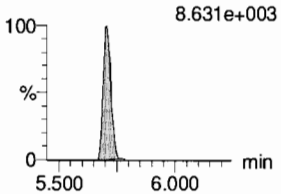
F33:MRM of 2 channels,ES-
512.1 > 219
1.000e-003



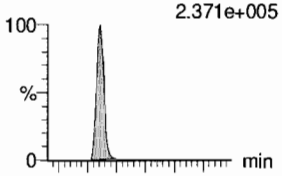
PFTrDA
F56:MRM of 2 channels,ES-
662.9 > 618.9
3.051e+005



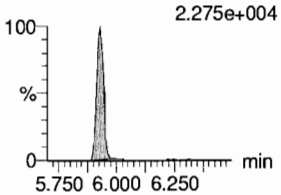
F56:MRM of 2 channels,ES-
662.9 > 319
8.631e+003



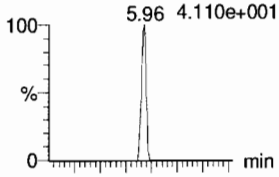
PFTeDA
F57:MRM of 2 channels,ES-
712.9 > 668.8
2.371e+005



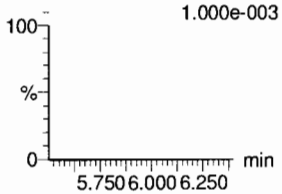
F57:MRM of 2 channels,ES-
712.9 > 369
2.275e+004



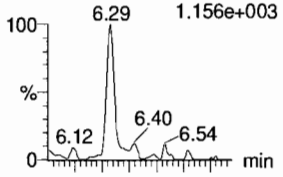
N-EtFOSA
F38:MRM of 2 channels,ES-
526.1 > 168.9
5.96 4.110e+001



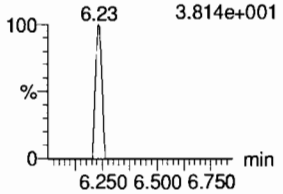
F38:MRM of 2 channels,ES-
526.1 > 219
1.000e-003



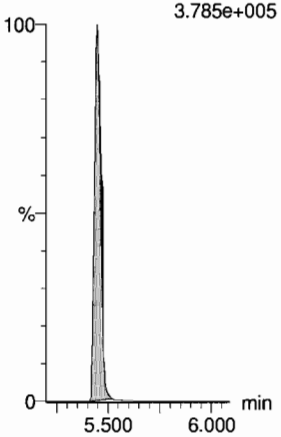
PFHxDA
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.156e+003



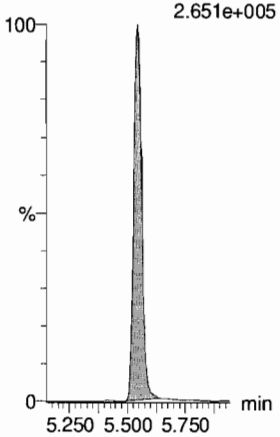
F59:MRM of 2 channels,ES-
813.1 > 219
3.814e+001



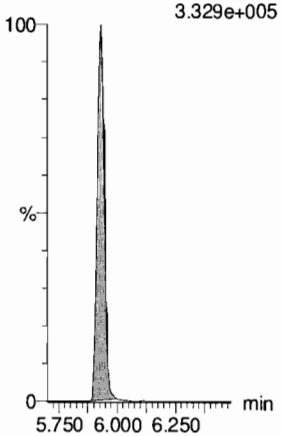
13C2-PFDoA
F51:MRM of 1 channel,ES-
615.0 > 569.7
3.785e+005



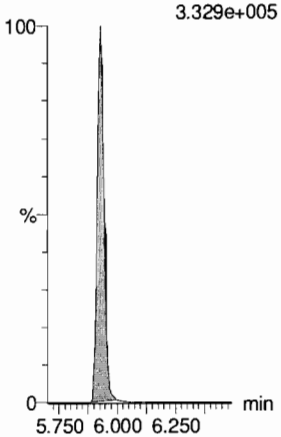
d3-N-MeFOSA
F36:MRM of 1 channel,ES-
515.2 > 168.9
2.651e+005



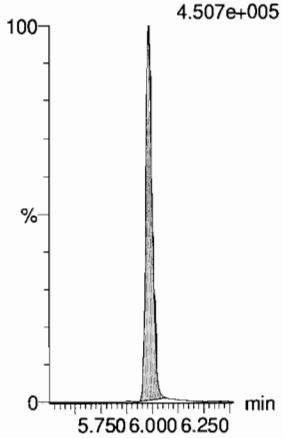
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
3.329e+005



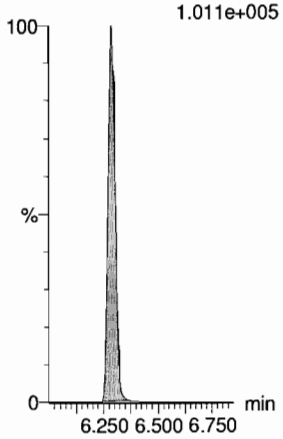
13C2-PFTeDA
F58:MRM of 2 channels,ES-
714.8 > 669.6
3.329e+005



d5-N-ETFOSA
F41:MRM of 1 channel,ES-
531.1 > 168.9
4.507e+005



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.011e+005

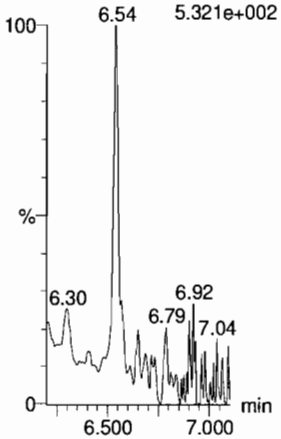


Dataset: U:\Q4.PRO\results\171101M2\171101M2-13.qld

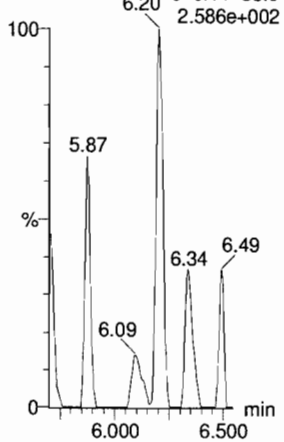
Last Altered: Thursday, November 02, 2017 13:11:53 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

Name: 171101M2_13, Date: 01-Nov-2017, Time: 17:00:03, ID: ICV171101M2-1 PFC ICV 17J2704, Description: PFC ICV 17J2704

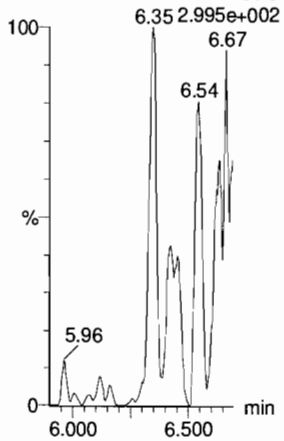
PFODA
F61:MRM of 1 channel,ES-
913.1 > 868.8
5.321e+002



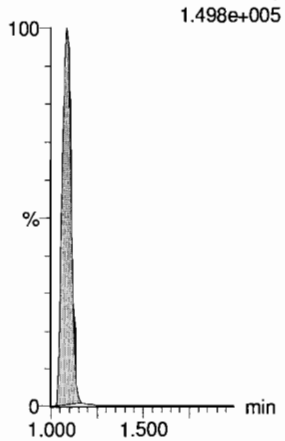
N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
2.586e+002



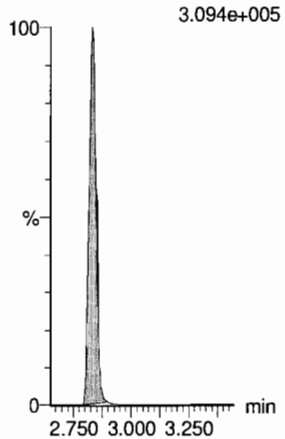
N-EtFOSE
F54:MRM of 1 channel,ES-
630.1 > 58.9
2.995e+002



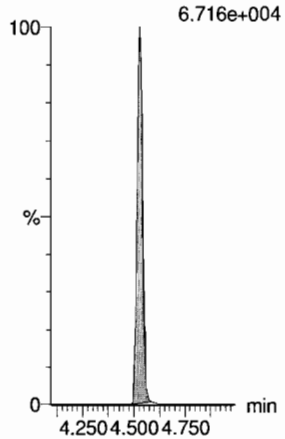
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
1.498e+005



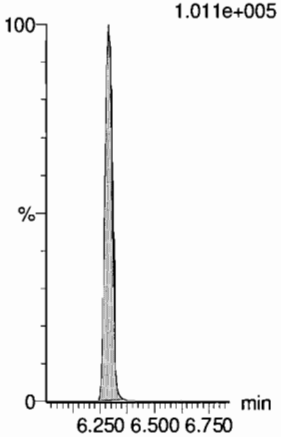
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
3.094e+005



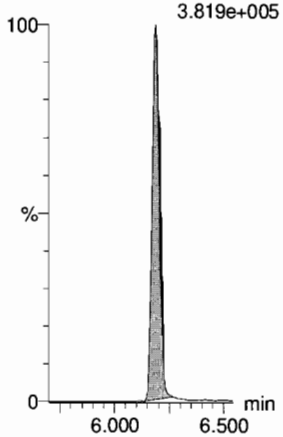
13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
6.716e+004



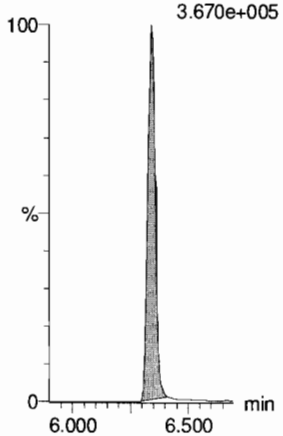
13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.011e+005



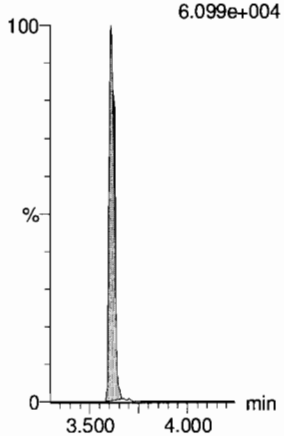
d7-N-MeFOSE
F53:MRM of 1 channel,ES-
623.1 > 58.9
3.819e+005



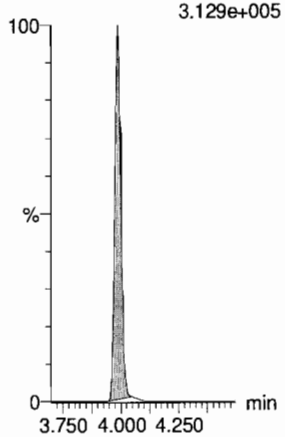
d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
3.670e+005



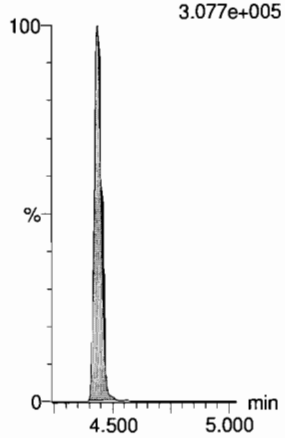
13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
6.099e+004



13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
3.129e+005



13C9-PFNA
F26:MRM of 1 channel,ES-
472.2 > 426.9
3.077e+005



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Printed: Thursday, November 02, 2017 13:12:41 Pacific Daylight Time

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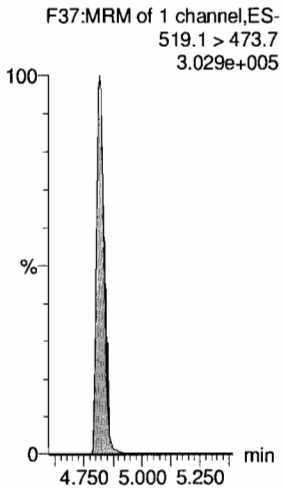
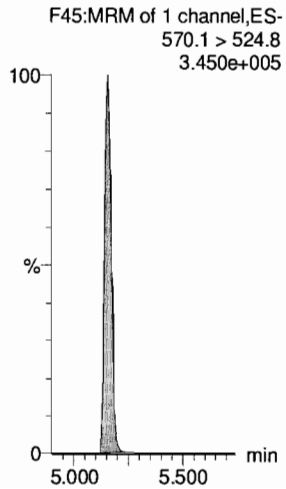
13C6-PFDA



13C7-PFUdA



Vista Analytical Laboratory

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Printed: Thursday, November 02, 2017 13:11:06 Pacific Daylight Time

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Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

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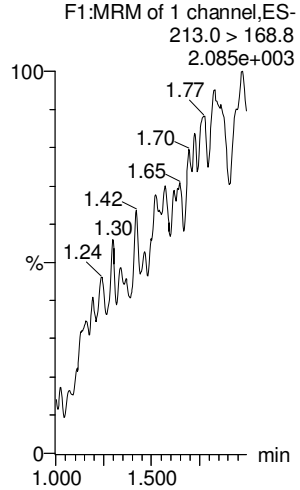

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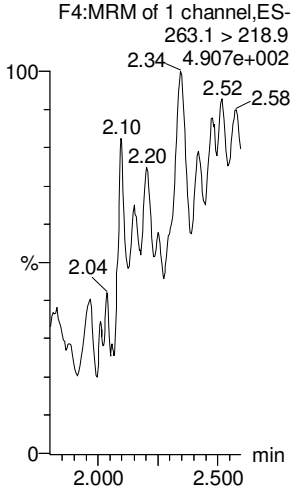

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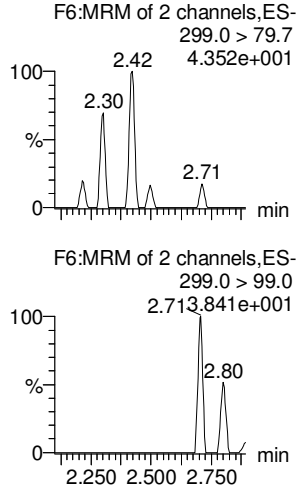

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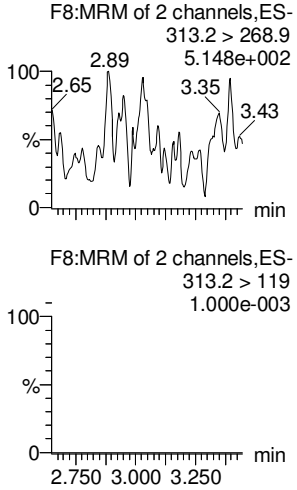

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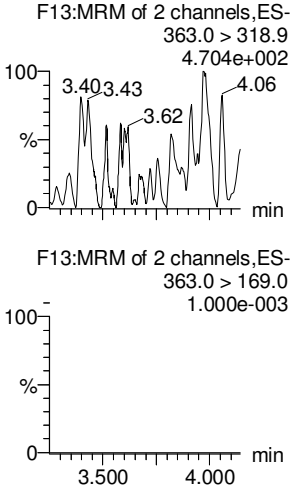

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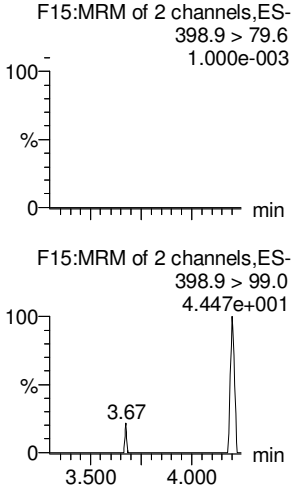

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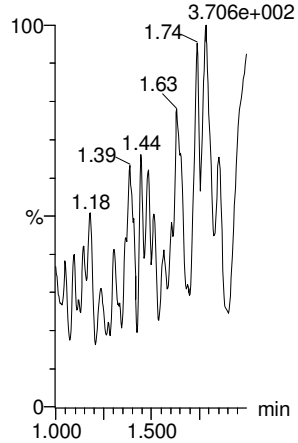

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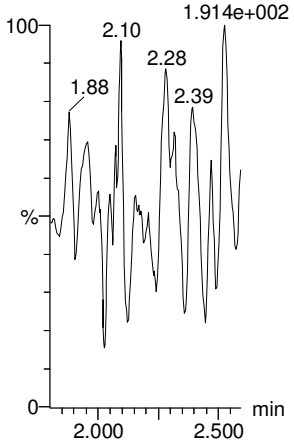

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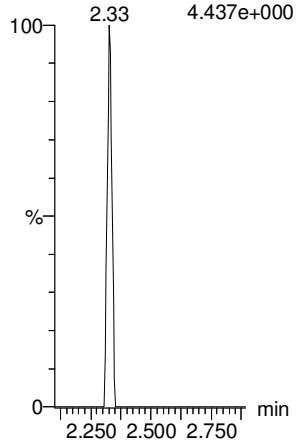

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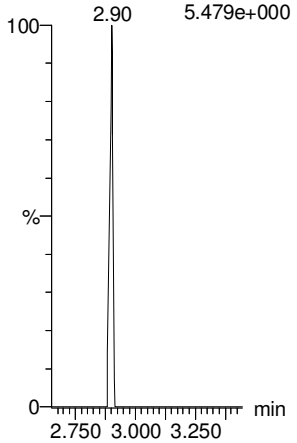

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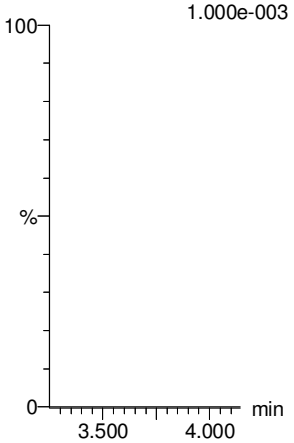

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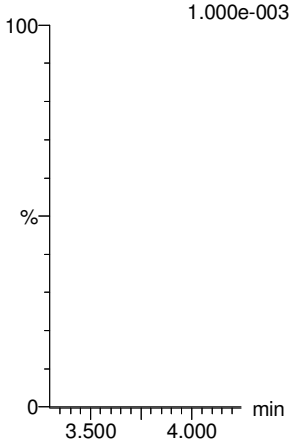

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Vista Analytical Laboratory

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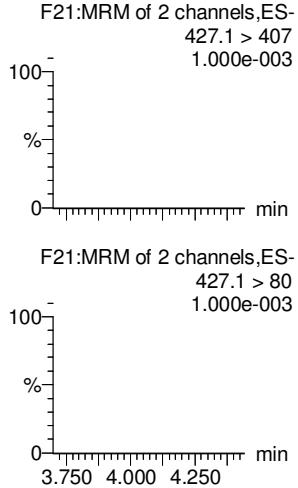
Last Altered: Thursday, November 02, 2017 13:11:02 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:11:06 Pacific Daylight Time

Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

6:2 FTS



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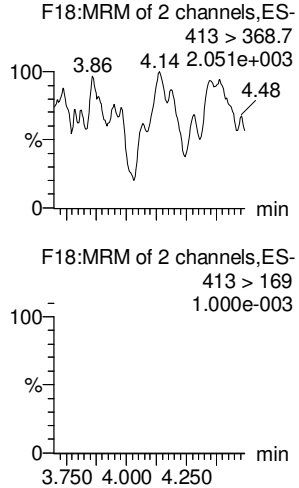

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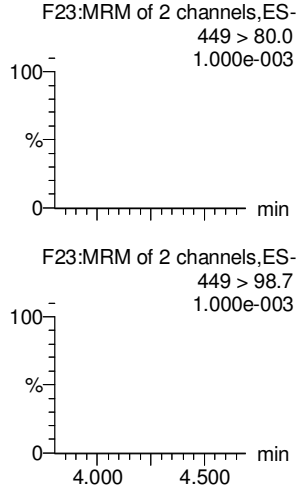

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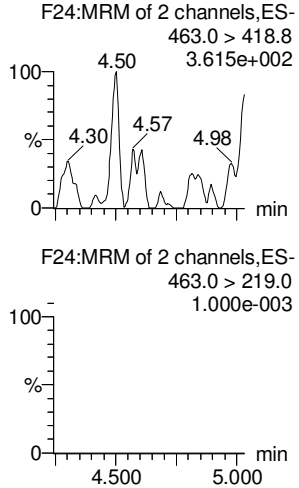

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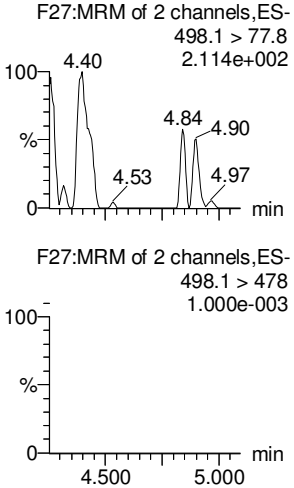

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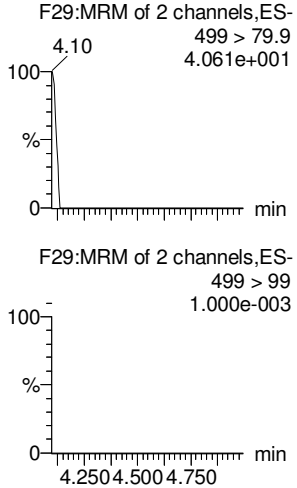

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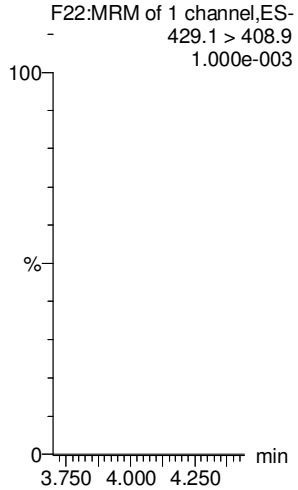

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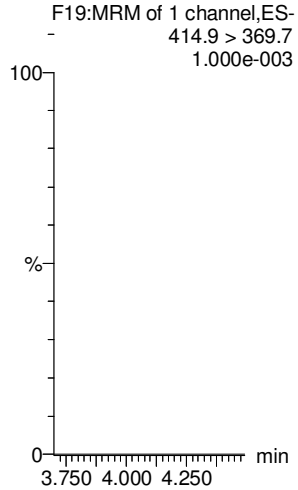

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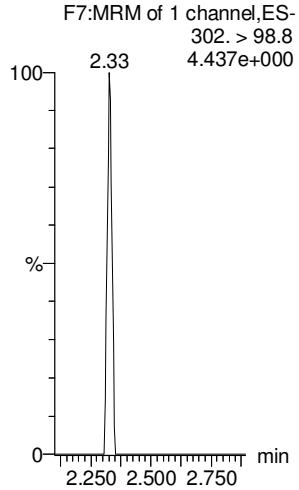

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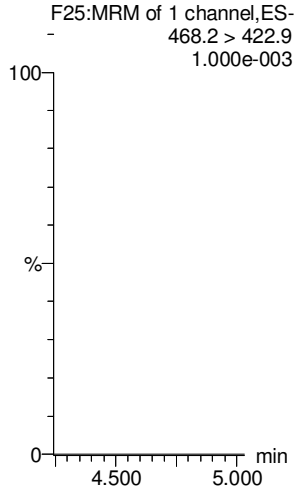

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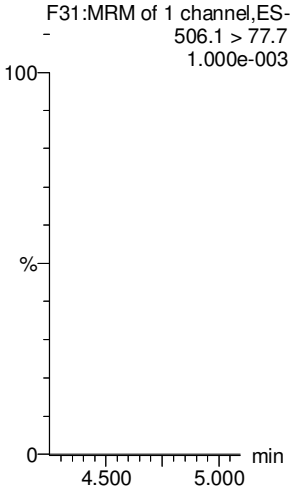

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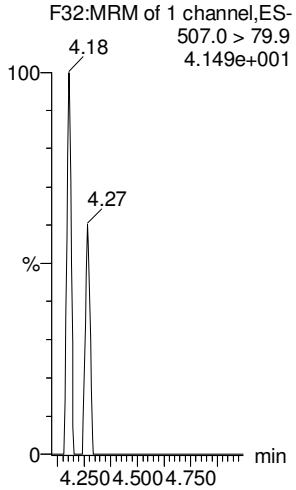

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Vista Analytical Laboratory

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Printed: Thursday, November 02, 2017 13:11:06 Pacific Daylight Time

Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

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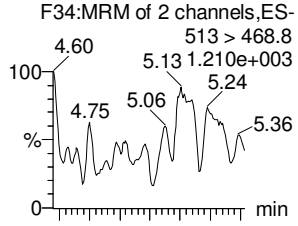
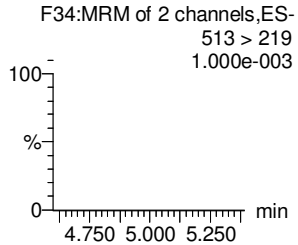
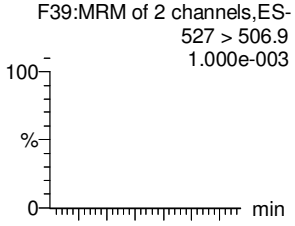
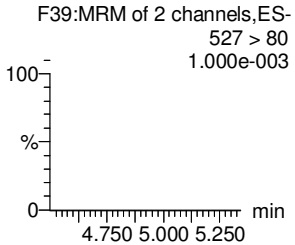




8:2 FTS





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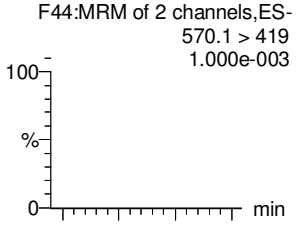

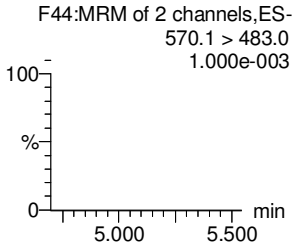

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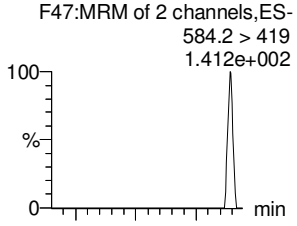
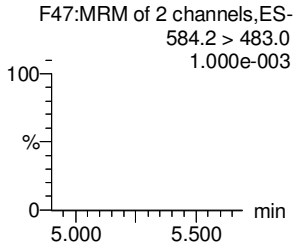
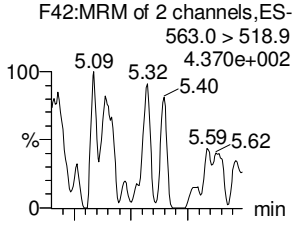
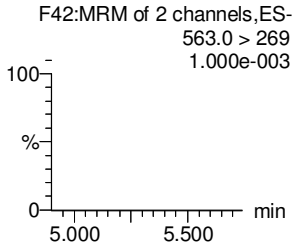




PFUdA





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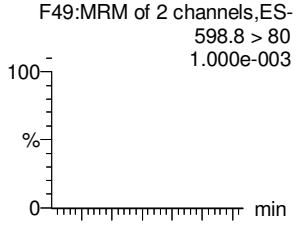

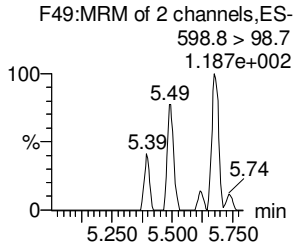

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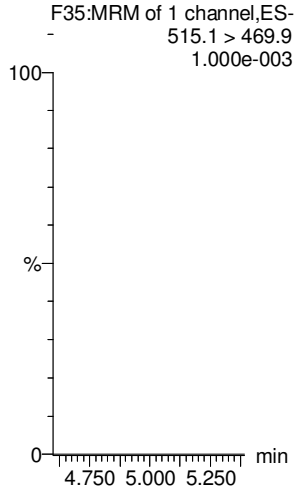
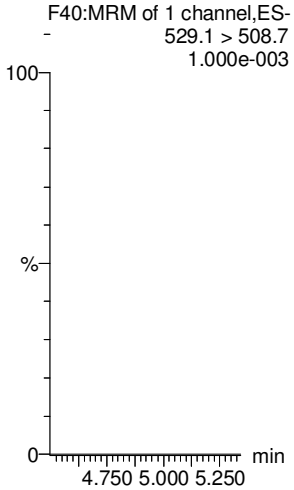


13C2-8:2 FTS



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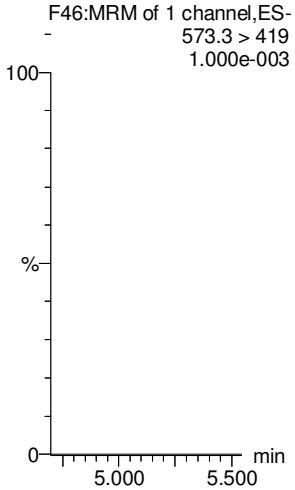

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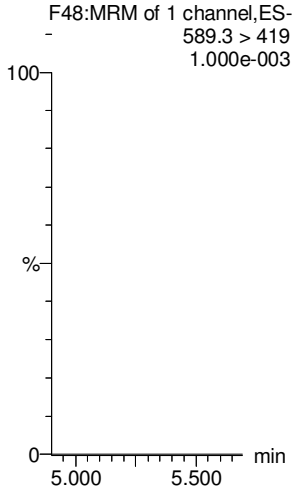

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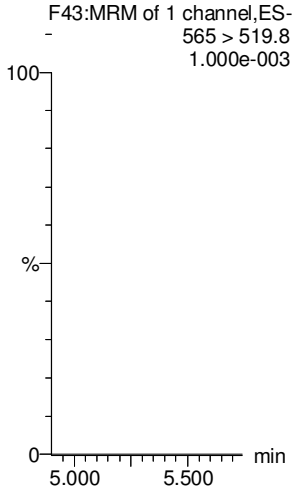

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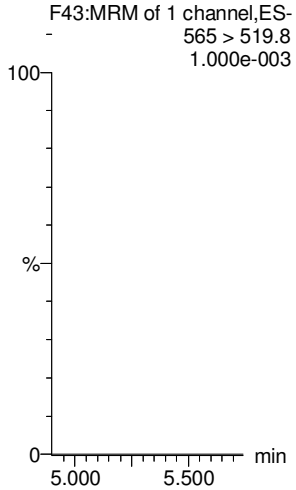

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Vista Analytical Laboratory

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Last Altered: Thursday, November 02, 2017 13:11:02 Pacific Daylight Time
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Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

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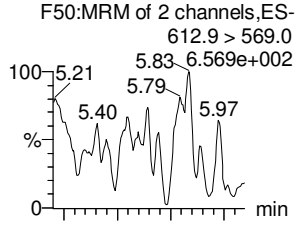

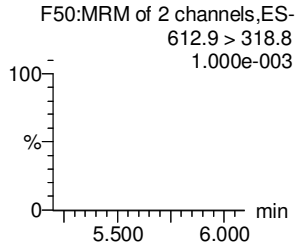

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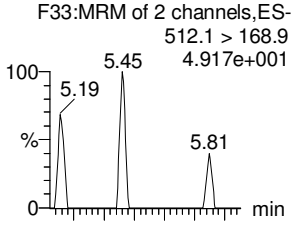

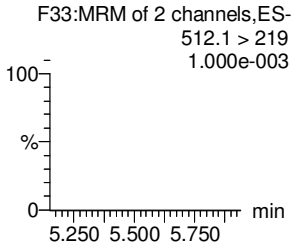

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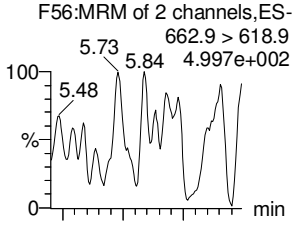
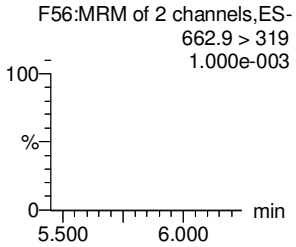
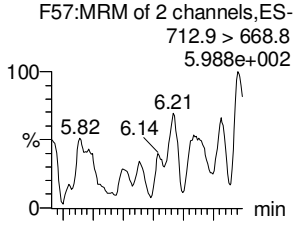
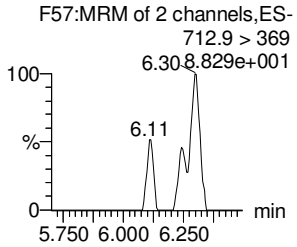




PFTeDA





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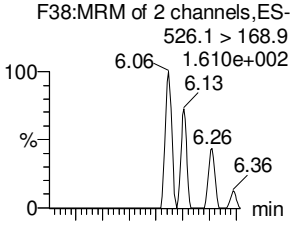

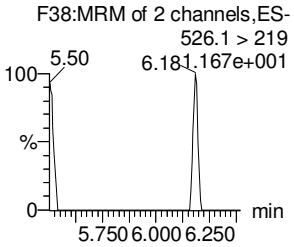

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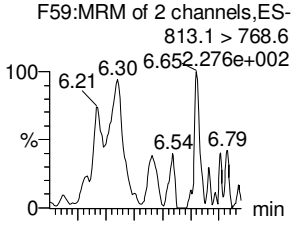

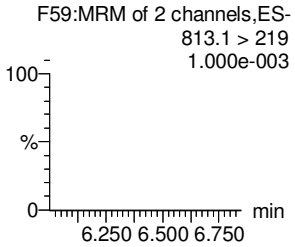

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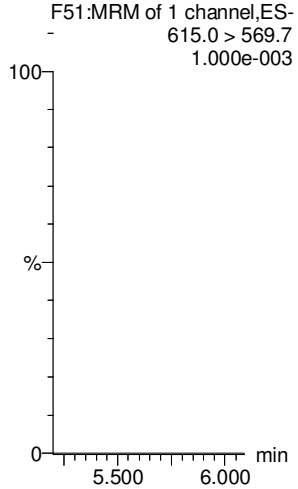
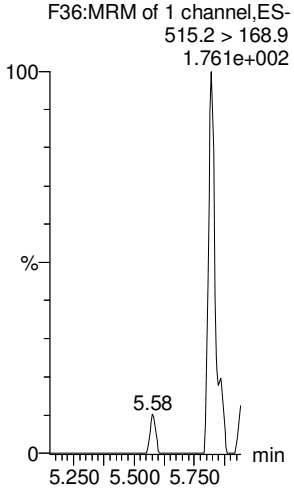


d3-N-MeFOSA



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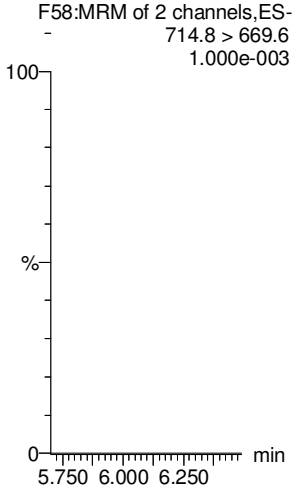

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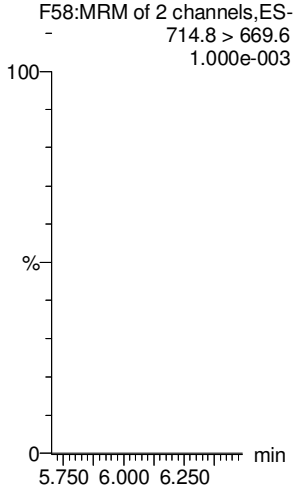

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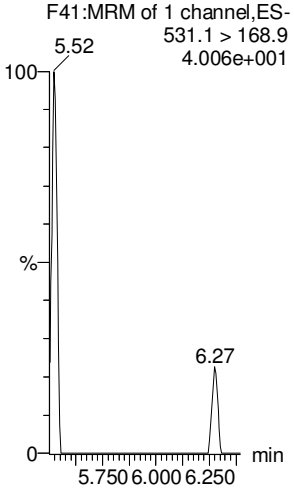

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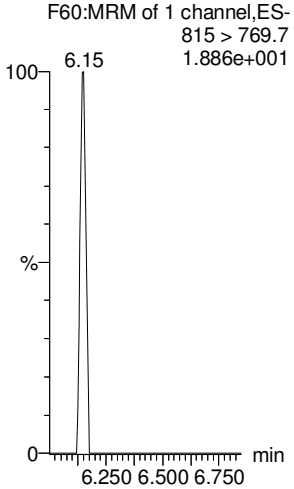

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Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, November 02, 2017 13:11:02 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:11:06 Pacific Daylight Time

Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

PFODA
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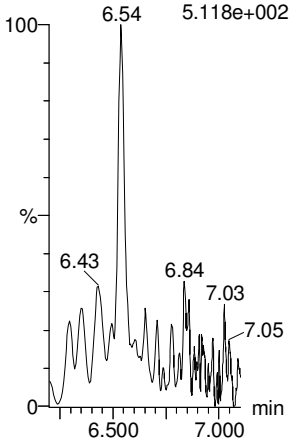
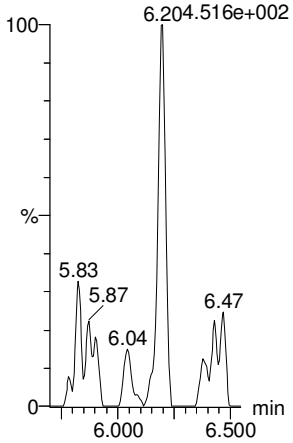
913.1 > 868.8
5.118e+002



N-MeFOSE
F52:MRM of 1 channel,ES-
616.1 > 58.9
4.516e+002



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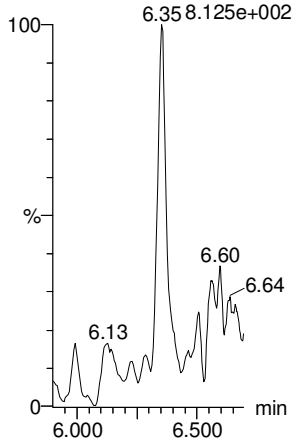
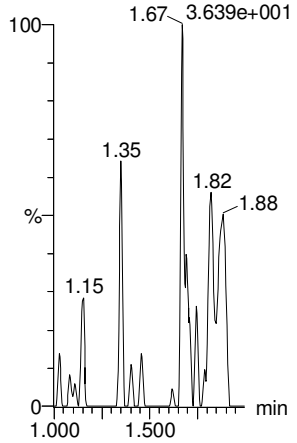
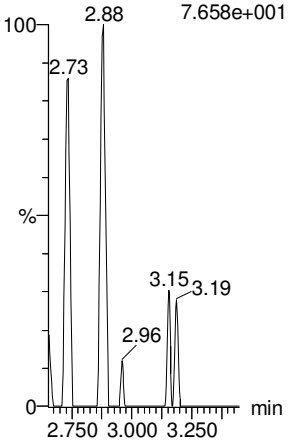
F54:MRM of 1 channel,ES-
630.1 > 58.9
8.125e+002



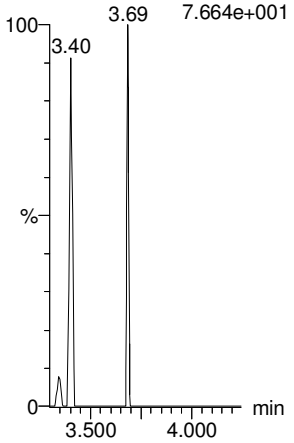
13C4-PFBA
F3:MRM of 1 channel,ES-
217. > 171.8
3.639e+001



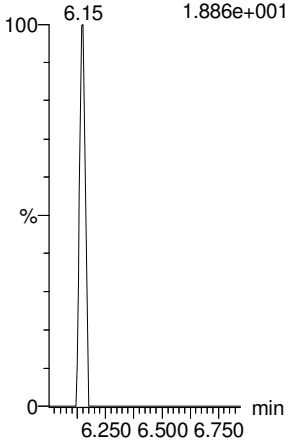
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
7.658e+001



13C3-PFHxS
F16:MRM of 1 channel,ES-
401.9 > 79.9
7.664e+001



13C2-PFHxDA
F60:MRM of 1 channel,ES-
815 > 769.7
1.886e+001



d7-N-MeFOSE
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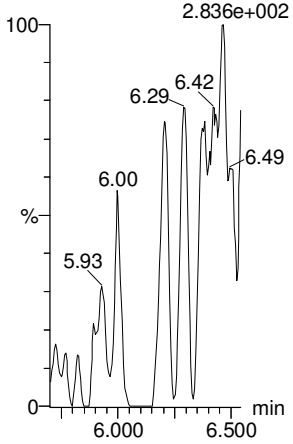
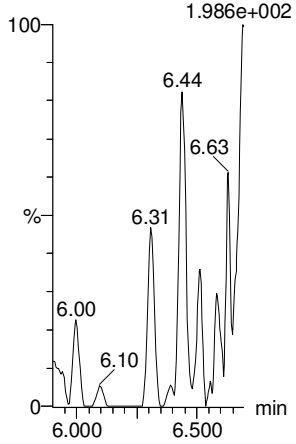
2.836e+002



d9-N-EtFOSE
F55:MRM of 1 channel,ES-
639.2 > 58.8
1.986e+002



13C8-PFOA
F20:MRM of 1 channel,ES-
421.3 > 376
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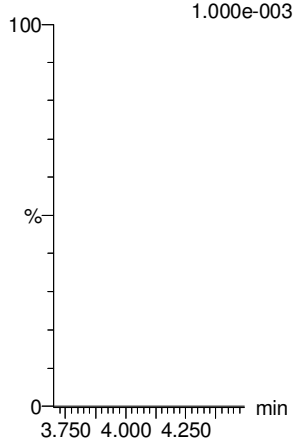

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472.2 > 426.9
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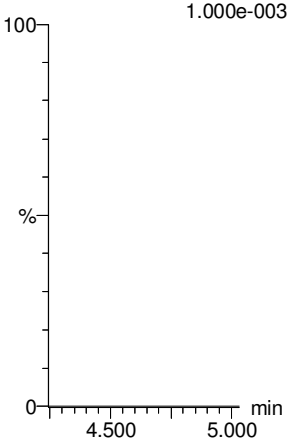
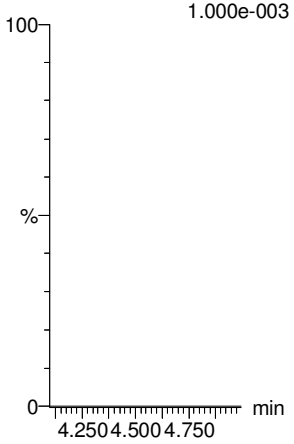


13C4-PFOS
F30:MRM of 1 channel,ES-
503 > 79.9
1.000e-003



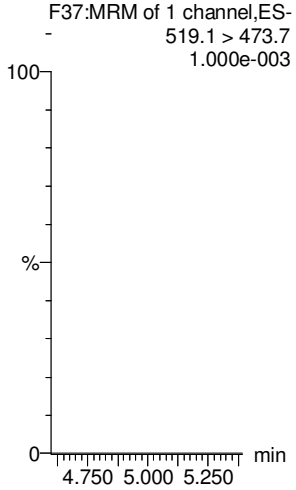
GM 11/2/17

Dataset: Untitled

Last Altered: Thursday, November 02, 2017 13:11:02 Pacific Daylight Time
Printed: Thursday, November 02, 2017 13:11:06 Pacific Daylight Time

Name: 171101M2_12, Date: 01-Nov-2017, Time: 16:48:52, ID: IPA, Description: IPA

13C6-PFDA



GM 11/2/17

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N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.34	NG_L	U		PR	TRG									5.1	1.91	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			PFHxA	307-24-4		5.34	NG_L	U		PR	TRG									5.1	2.32	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.34	NG_L	U		PR	TRG									5.1	0.630	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		12.8	NG_L			PR	TRG									5.1	1.01	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.34	NG_L	U		PR	TRG									5.1	0.693	5.34	8.52	1701549	S7K0002
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N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.34	NG_L	U		PR	TRG									5.1	0.863	5.34	8.52	1701549	S7K0002
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N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			MeFOSAA	2355-31-9		5.34	NG_L	U		PR	TRG									5.1	1.76	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			PFUnA	2058-94-8		5.34	NG_L	U		PR	TRG									5.1	1.12	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			EtFOSAA	2991-50-6		5.34	NG_L	U		PR	TRG									5.1	1.46	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			PFDoA	307-55-1		5.34	NG_L	U		PR	TRG									5.1	0.844	5.34	8.52	1701549	S7K0002
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N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			18O2-PFHxS	18O2-PFHxS		115	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C2-PFOA	13C2-PFOA		114	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C8-PFOS	13C8-PFOS		111	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C5-PFNA	13C5-PFNA		86.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C2-PFDA	13C2-PFDA		98.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			d3-MeFOSAA	d3-MeFOSAA		113	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C2-PFUnA	13C2-PFUnA		93.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			d5-EtFOSAA	d5-EtFOSAA		95.3	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C2-PFDoA	13C2-PFDoA		114	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 16:40	10/26/2017			20171030	11:00:00	20171102	00:07:00	1701549-01	1	-999			13C2-PFTeDA	13C2-PFTeDA		120	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.39	NG_L	U		PR	TRG									5.1	1.93	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			PFHxA	307-24-4		5.39	NG_L	U		PR	TRG									5.1	2.35	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.39	NG_L	U		PR	TRG									5.1	0.636	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		5.39	NG_L	U		PR	TRG									5.1	1.02	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.39	NG_L	U		PR	TRG									5.1	0.700	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.39	NG_L	U		PR	TRG									5.1	0.868	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.39	NG_L	U		PR	TRG									5.1	0.872	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			PFDA	335-76-2		5.39	NG_L	U		PR	TRG									5.1	1.60	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			MeFOSAA	2355-31-9		5.39	NG_L	U		PR	TRG									5.1	1.78	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			PFUnA	2058-94-8		5.39	NG_L	U		PR	TRG									5.1	1.13	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			EtFOSAA	2991-50-6		5.39	NG_L	U		PR	TRG									5.1	1.47	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			PFDoA	307-55-1		5.39	NG_L	U		PR	TRG									5.1	0.852	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			PFTrDA	72629-94-8		5.39	NG_L	U		PR	TRG									5.1	0.532	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			PFTeDA	376-06-7		5.39	NG_L	U		PR	TRG									5.1	0.812	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C3-PFBS	13C3-PFBS		132	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C2-PFHxA	13C2-PFHxA		113	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C4-PFHpA	13C4-PFHpA		113	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			18O2-PFHxS	18O2-PFHxS		103	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C2-PFOA	13C2-PFOA		110	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C8-PFOS	13C8-PFOS		139	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C5-PFNA	13C5-PFNA		90.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C2-PFDA	13C2-PFDA		83.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			d3-MeFOSAA	d3-MeFOSAA		81.3	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C2-PFUnA	13C2-PFUnA		111	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			d5-EtFOSAA	d5-EtFOSAA		105	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C2-PFDoA	13C2-PFDoA		108	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW11A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:15	10/26/2017			20171030	11:00:00	20171102	00:18:00	1701549-02	1	-999			13C2-PFTeDA	13C2-PFTeDA		142	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.30	NG_L	U		PR	TRG									5.1	1.90	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			PFHxA	307-24-4		5.30	NG_L	U		PR	TRG									5.1	2.31	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.30	NG_L	U		PR	TRG									5.1	0.626	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		5.30	NG_L	U		PR	TRG									5.1	1.00	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.30	NG_L	U		PR	TRG									5.1	0.690	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.30	NG_L	U		PR	TRG									5.1	0.855	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.30	NG_L	U		PR	TRG									5.1	0.859	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			PFDA	335-76-2		5.30	NG_L	U		PR	TRG									5.1	1.58	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			MeFOSAA	2355-31-9		5.30	NG_L	U		PR	TRG									5.1	1.75	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			PFUnA	2058-94-8		5.30	NG_L	U		PR	TRG									5.1	1.11	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			EtFOSAA	2991-50-6		5.30	NG_L	U		PR	TRG									5.1	1.45	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			PFDoA	307-55-1		5.30	NG_L	U		PR	TRG									5.1	0.840	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			PFTrDA	72629-94-8		5.30	NG_L	U		PR	TRG									5.1	0.524	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			PFTeDA	376-06-7		5.30	NG_L	U		PR	TRG									5.1	0.800	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C3-PFBS	13C3-PFBS		129	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C2-PFHxA	13C2-PFHxA		108	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C4-PFHpA	13C4-PFHpA		123	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			18O2-PFHxS	18O2-PFHxS		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C2-PFOA	13C2-PFOA		129	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C8-PFOS	13C8-PFOS		89.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C5-PFNA	13C5-PFNA		94.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C2-PFDA	13C2-PFDA		83.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			d3-MeFOSAA	d3-MeFOSAA		86.0	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C2-PFUnA	13C2-PFUnA		84.6	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			d5-EtFOSAA	d5-EtFOSAA		85.2	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C2-PFDoA	13C2-PFDoA		98.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB01-102317	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/23/2017 18:00	10/26/2017			20171030	11:00:00	20171102	00:29:00	1701549-03	1	-999			13C2-PFTeDA	13C2-PFTeDA		109	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.21	NG_L	U		PR	TRG									5.1	1.86	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			PFHxA	307-24-4		5.21	NG_L	U		PR	TRG									5.1	2.27	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.21	NG_L	U		PR	TRG									5.1	0.615	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		7.88	NG_L	J		PR	TRG									5.1	0.985	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.21	NG_L	U		PR	TRG									5.1	0.677	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.21	NG_L	U		PR	TRG									5.1	0.840	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.21	NG_L	U		PR	TRG									5.1	0.843	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			PFDA	335-76-2		5.21	NG_L	U		PR	TRG									5.1	1.55	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			MeFOSAA	2355-31-9		5.21	NG_L	U		PR	TRG									5.1	1.72	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			PFUnA	2058-94-8		5.21	NG_L	U		PR	TRG									5.1	1.09	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			EtFOSAA	2991-50-6		5.21	NG_L	U		PR	TRG									5.1	1.43	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			PFDoA	307-55-1		5.21	NG_L	U		PR	TRG									5.1	0.824	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			PFTrDA	72629-94-8		5.21	NG_L	U		PR	TRG									5.1	0.514	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			PFTeDA	376-06-7		5.21	NG_L	U		PR	TRG									5.1	0.786	5.21	8.33	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C3-PFBS	13C3-PFBS		145	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C2-PFHxA	13C2-PFHxA		120	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C4-PFHpA	13C4-PFHpA		122	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			18O2-PFHxS	18O2-PFHxS		109	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C2-PFOA	13C2-PFOA		134	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C8-PFOS	13C8-PFOS		104	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C5-PFNA	13C5-PFNA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C2-PFDA	13C2-PFDA		91.5	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			d3-MeFOSAA	d3-MeFOSAA		91.3	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C2-PFUnA	13C2-PFUnA		104	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			d5-EtFOSAA	d5-EtFOSAA		93.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C2-PFDoA	13C2-PFDoA		111	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW06-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:00	10/26/2017			20171030	11:00:00	20171102	00:41:00	1701549-04	1	-999			13C2-PFTeDA	13C2-PFTeDA		148	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.39	NG_L	U		PR	TRG									5.1	1.92	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			PFHxA	307-24-4		5.39	NG_L	U		PR	TRG									5.1	2.34	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.39	NG_L	U		PR	TRG									5.1	0.635	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		9.13	NG_L			PR	TRG									5.1	1.02	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		1.84	NG_L	J		PR	TRG									5.1	0.700	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		82.9	NG_L			PR	TRG									5.1	0.867	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.39	NG_L	U		PR	TRG									5.1	0.870	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			PFDA	335-76-2		5.39	NG_L	U		PR	TRG									5.1	1.60	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			MeFOSAA	2355-31-9		5.39	NG_L	U		PR	TRG									5.1	1.77	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			PFUnA	2058-94-8		5.39	NG_L	U		PR	TRG									5.1	1.13	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			EtFOSAA	2991-50-6		5.39	NG_L	U		PR	TRG									5.1	1.47	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			PFDoA	307-55-1		5.39	NG_L	U		PR	TRG									5.1	0.851	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			PFTrDA	72629-94-8		5.39	NG_L	U		PR	TRG									5.1	0.531	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			PFTeDA	376-06-7		5.39	NG_L	U		PR	TRG									5.1	0.811	5.39	8.60	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C3-PFBS	13C3-PFBS		141	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C2-PFHxA	13C2-PFHxA		125	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C4-PFHpA	13C4-PFHpA		125	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			18O2-PFHxS	18O2-PFHxS		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C2-PFOA	13C2-PFOA		106	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C8-PFOS	13C8-PFOS		110	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C5-PFNA	13C5-PFNA		96.5	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C2-PFDA	13C2-PFDA		82.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			d3-MeFOSAA	d3-MeFOSAA		81.5	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C2-PFUnA	13C2-PFUnA		82.3	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			d5-EtFOSAA	d5-EtFOSAA		107	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C2-PFDoA	13C2-PFDoA		97.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW04-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 11:35	10/26/2017			20171030	11:00:00	20171102	00:52:00	1701549-05	1	-999			13C2-PFTeDA	13C2-PFTeDA		78.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		16.2	NG_L			PR	TRG									5.1	1.97	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			PFHxA	307-24-4		13.0	NG_L			PR	TRG									5.1	2.40	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		2.32	NG_L	J		PR	TRG									5.1	0.650	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		52.7	NG_L			PR	TRG									5.1	1.04	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		0.813	NG_L	J		PR	TRG									5.1	0.716	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		3.37	NG_L	J		PR	TRG									5.1	0.887	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.48	NG_L	U		PR	TRG									5.1	0.891	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			PFDA	335-76-2		5.48	NG_L	U		PR	TRG									5.1	1.64	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			MeFOSAA	2355-31-9		5.48	NG_L	U		PR	TRG									5.1	1.81	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			PFUnA	2058-94-8		5.48	NG_L	U		PR	TRG									5.1	1.15	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			EtFOSAA	2991-50-6		5.48	NG_L	U		PR	TRG									5.1	1.51	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			PFDoA	307-55-1		5.48	NG_L	U		PR	TRG									5.1	0.871	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			PFTrDA	72629-94-8		5.48	NG_L	U		PR	TRG									5.1	0.543	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			PFTeDA	376-06-7		5.48	NG_L	U		PR	TRG									5.1	0.830	5.48	8.80	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C3-PFBS	13C3-PFBS		139	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C2-PFHxA	13C2-PFHxA		108	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C4-PFHpA	13C4-PFHpA		118	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			18O2-PFHxS	18O2-PFHxS		100	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C2-PFOA	13C2-PFOA		115	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C8-PFOS	13C8-PFOS		109	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C5-PFNA	13C5-PFNA		93.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C2-PFDA	13C2-PFDA		86.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			d3-MeFOSAA	d3-MeFOSAA		90.6	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C2-PFUnA	13C2-PFUnA		90.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			d5-EtFOSAA	d5-EtFOSAA		84.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C2-PFDoA	13C2-PFDoA		81.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW07-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 13:45	10/26/2017			20171030	11:00:00	20171102	01:37:00	1701549-06	1	-999			13C2-PFTeDA	13C2-PFTeDA		121	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		11.2	NG_L			PR	TRG									5.1	1.91	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			PFHxA	307-24-4		18.3	NG_L			PR	TRG									5.1	2.32	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		3.19	NG_L	J		PR	TRG									5.1	0.629	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		98.8	NG_L			PR	TRG									5.1	1.01	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		6.52	NG_L	J		PR	TRG									5.1	0.693	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		132	NG_L			PR	TRG									5.1	0.859	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.34	NG_L	U		PR	TRG									5.1	0.862	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			PFDA	335-76-2		5.34	NG_L	U		PR	TRG									5.1	1.59	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			MeFOSAA	2355-31-9		5.34	NG_L	U		PR	TRG									5.1	1.76	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			PFUnA	2058-94-8		5.34	NG_L	U		PR	TRG									5.1	1.12	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			EtFOSAA	2991-50-6		5.34	NG_L	U		PR	TRG									5.1	1.46	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			PFDoA	307-55-1		5.34	NG_L	U		PR	TRG									5.1	0.843	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			PFTrDA	72629-94-8		5.34	NG_L	U		PR	TRG									5.1	0.526	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			PFTeDA	376-06-7		5.34	NG_L	U		PR	TRG									5.1	0.804	5.34	8.52	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C3-PFBS	13C3-PFBS		125	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C2-PFHxA	13C2-PFHxA		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C4-PFHpA	13C4-PFHpA		113	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			18O2-PFHxS	18O2-PFHxS		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C2-PFOA	13C2-PFOA		119	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C8-PFOS	13C8-PFOS		123	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C5-PFNA	13C5-PFNA		98.0	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C2-PFDA	13C2-PFDA		122	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			d3-MeFOSAA	d3-MeFOSAA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C2-PFUnA	13C2-PFUnA		113	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			d5-EtFOSAA	d5-EtFOSAA		96.6	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C2-PFDoA	13C2-PFDoA		93.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:40	10/26/2017			20171030	11:00:00	20171102	01:48:00	1701549-07	1	-999			13C2-PFTeDA	13C2-PFTeDA		116	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		12.0	NG_L			PR	TRG									5.1	1.90	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			PFHxA	307-24-4		22.7	NG_L			PR	TRG									5.1	2.31	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		3.49	NG_L	J		PR	TRG									5.1	0.626	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		116	NG_L			PR	TRG									5.1	1.00	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		6.66	NG_L	J		PR	TRG									5.1	0.690	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		132	NG_L			PR	TRG									5.1	0.855	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.30	NG_L	U		PR	TRG									5.1	0.858	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			PFDA	335-76-2		5.30	NG_L	U		PR	TRG									5.1	1.58	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			MeFOSAA	2355-31-9		5.30	NG_L	U		PR	TRG									5.1	1.75	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			PFUnA	2058-94-8		5.30	NG_L	U		PR	TRG									5.1	1.11	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			EtFOSAA	2991-50-6		5.30	NG_L	U		PR	TRG									5.1	1.45	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			PFDoA	307-55-1		5.30	NG_L	U		PR	TRG									5.1	0.839	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			PFTrDA	72629-94-8		5.30	NG_L	U		PR	TRG									5.1	0.523	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			PFTeDA	376-06-7		5.30	NG_L	U		PR	TRG									5.1	0.800	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C3-PFBS	13C3-PFBS		135	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C2-PFHxA	13C2-PFHxA		110	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C4-PFHpA	13C4-PFHpA		120	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			18O2-PFHxS	18O2-PFHxS		104	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C2-PFOA	13C2-PFOA		114	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C8-PFOS	13C8-PFOS		128	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C5-PFNA	13C5-PFNA		121	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C2-PFDA	13C2-PFDA		97.5	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			d3-MeFOSAA	d3-MeFOSAA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C2-PFUnA	13C2-PFUnA		91.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			d5-EtFOSAA	d5-EtFOSAA		116	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002

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_Type	Lab_QC_Type	Sample_Medium	QC_Level	DateTime_Collected	Date_Received	Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	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_Limit_Date	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C2-PFDoA	13C2-PFDoA		126	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12P-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 14:45	10/26/2017			20171030	11:00:00	20171102	01:59:00	1701549-08	1	-999			13C2-PFTeDA	13C2-PFTeDA		129	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.39	NG_L	U		PR	TRG									5.1	1.93	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			PFHxA	307-24-4		5.39	NG_L	U		PR	TRG									5.1	2.35	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.39	NG_L	U		PR	TRG									5.1	0.636	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		5.39	NG_L	U		PR	TRG									5.1	1.02	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.39	NG_L	U		PR	TRG									5.1	0.700	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.39	NG_L	U		PR	TRG									5.1	0.868	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.39	NG_L	U		PR	TRG									5.1	0.871	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			PFDA	335-76-2		5.39	NG_L	U		PR	TRG									5.1	1.60	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			MeFOSAA	2355-31-9		5.39	NG_L	U		PR	TRG									5.1	1.78	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			PFUnA	2058-94-8		5.39	NG_L	U		PR	TRG									5.1	1.13	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			EtFOSAA	2991-50-6		5.39	NG_L	U		PR	TRG									5.1	1.47	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			PFDoA	307-55-1		5.39	NG_L	U		PR	TRG									5.1	0.852	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			PFTrDA	72629-94-8		5.39	NG_L	U		PR	TRG									5.1	0.532	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			PFTeDA	376-06-7		5.39	NG_L	U		PR	TRG									5.1	0.812	5.39	8.61	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C3-PFBS	13C3-PFBS		111	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C2-PFHxA	13C2-PFHxA		116	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C4-PFHpA	13C4-PFHpA		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			18O2-PFHxS	18O2-PFHxS		114	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C2-PFOA	13C2-PFOA		121	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C8-PFOS	13C8-PFOS		110	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C5-PFNA	13C5-PFNA		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C2-PFDA	13C2-PFDA		91.2	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			d3-MeFOSAA	d3-MeFOSAA		106	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C2-PFUnA	13C2-PFUnA		91.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			d5-EtFOSAA	d5-EtFOSAA		85.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C2-PFDoA	13C2-PFDoA		75.2	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW12A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/24/2017 16:55	10/26/2017			20171030	11:00:00	20171102	02:10:00	1701549-09	1	-999			13C2-PFTeDA	13C2-PFTeDA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		2.58	NG_L	J		PR	TRG									5.1	1.88	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			PFHxA	307-24-4		4.80	NG_L	J		PR	TRG									5.1	2.28	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.25	NG_L	U		PR	TRG									5.1	0.619	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		27.4	NG_L			PR	TRG									5.1	0.992	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		1.58	NG_L	J		PR	TRG									5.1	0.682	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		7.96	NG_L	J		PR	TRG									5.1	0.845	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.25	NG_L	U		PR	TRG									5.1	0.849	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			PFDA	335-76-2		5.25	NG_L	U		PR	TRG									5.1	1.56	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			MeFOSAA	2355-31-9		5.25	NG_L	U		PR	TRG									5.1	1.73	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			PFUnA	2058-94-8		5.25	NG_L	U		PR	TRG									5.1	1.10	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			EtFOSAA	2991-50-6		5.25	NG_L	U		PR	TRG									5.1	1.44	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			PFDoA	307-55-1		5.25	NG_L	U		PR	TRG									5.1	0.830	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			PFTrDA	72629-94-8		5.25	NG_L	U		PR	TRG									5.1	0.518	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			PFTeDA	376-06-7		5.25	NG_L	U		PR	TRG									5.1	0.791	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C3-PFBS	13C3-PFBS		129	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C2-PFHxA	13C2-PFHxA		109	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C4-PFHpA	13C4-PFHpA		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			18O2-PFHxS	18O2-PFHxS		98.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C2-PFOA	13C2-PFOA		124	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C8-PFOS	13C8-PFOS		124	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C5-PFNA	13C5-PFNA		91.3	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C2-PFDA	13C2-PFDA		92.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			d3-MeFOSAA	d3-MeFOSAA		77.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C2-PFUnA	13C2-PFUnA		70.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			d5-EtFOSAA	d5-EtFOSAA		86.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C2-PFDoA	13C2-PFDoA		76.2	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 09:45	10/26/2017			20171030	11:00:00	20171102	02:21:00	1701549-10	1	-999			13C2-PFTeDA	13C2-PFTeDA		117	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.25	NG_L	U		PR	TRG									5.1	1.87	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			PFHxA	307-24-4		5.25	NG_L	U		PR	TRG									5.1	2.28	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.25	NG_L	U		PR	TRG									5.1	0.619	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		5.25	NG_L	U		PR	TRG									5.1	0.992	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.25	NG_L	U		PR	TRG									5.1	0.682	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.25	NG_L	U		PR	TRG									5.1	0.845	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.25	NG_L	U		PR	TRG									5.1	0.848	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			PFDA	335-76-2		5.25	NG_L	U		PR	TRG									5.1	1.56	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			MeFOSAA	2355-31-9		5.25	NG_L	U		PR	TRG									5.1	1.73	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			PFUnA	2058-94-8		5.25	NG_L	U		PR	TRG									5.1	1.10	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			EtFOSAA	2991-50-6		5.25	NG_L	U		PR	TRG									5.1	1.43	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			PFDoA	307-55-1		5.25	NG_L	U		PR	TRG									5.1	0.829	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			PFTrDA	72629-94-8		5.25	NG_L	U		PR	TRG									5.1	0.517	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			PFTeDA	376-06-7		5.25	NG_L	U		PR	TRG									5.1	0.791	5.25	8.38	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C3-PFBS	13C3-PFBS		146	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C2-PFHxA	13C2-PFHxA		123	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C4-PFHpA	13C4-PFHpA		114	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			18O2-PFHxS	18O2-PFHxS		119	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C2-PFOA	13C2-PFOA		118	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C8-PFOS	13C8-PFOS		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C5-PFNA	13C5-PFNA		110	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C2-PFDA	13C2-PFDA		103	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			d3-MeFOSAA	d3-MeFOSAA		92.5	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C2-PFUnA	13C2-PFUnA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			d5-EtFOSAA	d5-EtFOSAA		96.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C2-PFDoA	13C2-PFDoA		107	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW15A-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 12:50	10/26/2017			20171030	11:00:00	20171102	02:32:00	1701549-11	1	-999			13C2-PFTeDA	13C2-PFTeDA		140	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		21.6	NG_L			PR	TRG									5.1	1.91	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			PFHxA	307-24-4		38.3	NG_L			PR	TRG									5.1	2.33	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.31	NG_L	J		PR	TRG									5.1	0.631	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		157	NG_L			PR	TRG									5.1	1.01	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		6.41	NG_L	J		PR	TRG									5.1	0.695	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		23.4	NG_L			PR	TRG									5.1	0.861	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.34	NG_L	U		PR	TRG									5.1	0.865	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			PFDA	335-76-2		5.34	NG_L	U		PR	TRG									5.1	1.59	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			MeFOSAA	2355-31-9		5.34	NG_L	U		PR	TRG									5.1	1.76	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			PFUnA	2058-94-8		5.34	NG_L	U		PR	TRG									5.1	1.12	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			EtFOSAA	2991-50-6		5.34	NG_L	U		PR	TRG									5.1	1.46	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			PFDoA	307-55-1		5.34	NG_L	U		PR	TRG									5.1	0.845	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			PFTrDA	72629-94-8		5.34	NG_L	U		PR	TRG									5.1	0.527	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			PFTeDA	376-06-7		5.34	NG_L	U		PR	TRG									5.1	0.806	5.34	8.54	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C3-PFBS	13C3-PFBS		141	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C2-PFHxA	13C2-PFHxA		117	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C4-PFHpA	13C4-PFHpA		107	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			18O2-PFHxS	18O2-PFHxS		107	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C2-PFOA	13C2-PFOA		127	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C8-PFOS	13C8-PFOS		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C5-PFNA	13C5-PFNA		96.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C2-PFDA	13C2-PFDA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			d3-MeFOSAA	d3-MeFOSAA		100	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C2-PFUnA	13C2-PFUnA		96.6	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			d5-EtFOSAA	d5-EtFOSAA		92.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C2-PFDoA	13C2-PFDoA		92.1	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-GW13-1017	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 15:25	10/26/2017			20171030	11:00:00	20171102	02:44:00	1701549-12	1	-999			13C2-PFTeDA	13C2-PFTeDA		114	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.30	NG_L	U		PR	TRG									5.1	1.90	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			PFHxA	307-24-4		5.30	NG_L	U		PR	TRG									5.1	2.31	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.30	NG_L	U		PR	TRG									5.1	0.627	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		5.30	NG_L	U		PR	TRG									5.1	1.00	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.30	NG_L	U		PR	TRG									5.1	0.690	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.30	NG_L	U		PR	TRG									5.1	0.856	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.30	NG_L	U		PR	TRG									5.1	0.859	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			PFDA	335-76-2		5.30	NG_L	U		PR	TRG									5.1	1.58	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			MeFOSAA	2355-31-9		5.30	NG_L	U		PR	TRG									5.1	1.75	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			PFUnA	2058-94-8		5.30	NG_L	U		PR	TRG									5.1	1.11	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			EtFOSAA	2991-50-6		5.30	NG_L	U		PR	TRG									5.1	1.45	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			PFDoA	307-55-1		5.30	NG_L	U		PR	TRG									5.1	0.840	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			PFTrDA	72629-94-8		5.30	NG_L	U		PR	TRG									5.1	0.524	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			PFTeDA	376-06-7		5.30	NG_L	U		PR	TRG									5.1	0.800	5.30	8.48	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C3-PFBS	13C3-PFBS		123	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C2-PFHxA	13C2-PFHxA		112	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C4-PFHpA	13C4-PFHpA		119	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			18O2-PFHxS	18O2-PFHxS		101	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C2-PFOA	13C2-PFOA		133	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C8-PFOS	13C8-PFOS		113	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C5-PFNA	13C5-PFNA		110	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C2-PFDA	13C2-PFDA		82.4	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			d3-MeFOSAA	d3-MeFOSAA		96.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C2-PFUnA	13C2-PFUnA		94.2	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			d5-EtFOSAA	d5-EtFOSAA		79.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C2-PFDoA	13C2-PFDoA		86.6	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	YS22-EB02-102517	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/25/2017 16:05	10/26/2017			20171030	11:00:00	20171102	02:55:00	1701549-13	1	-999			13C2-PFTeDA	13C2-PFTeDA		109	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.00	NG_L	U		PR	TRG									5.1	1.79	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			PFHxA	307-24-4		5.00	NG_L	U		PR	TRG									5.1	2.18	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		5.00	NG_L	U		PR	TRG									5.1	0.591	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		5.00	NG_L	U		PR	TRG									5.1	0.947	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.00	NG_L	U		PR	TRG									5.1	0.651	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.00	NG_L	U		PR	TRG									5.1	0.807	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		5.00	NG_L	U		PR	TRG									5.1	0.810	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			PFDA	335-76-2		5.00	NG_L	U		PR	TRG									5.1	1.49	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			MeFOSAA	2355-31-9		5.00	NG_L	U		PR	TRG									5.1	1.65	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			PFUnA	2058-94-8		5.00	NG_L	U		PR	TRG									5.1	1.05	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			EtFOSAA	2991-50-6		5.00	NG_L	U		PR	TRG									5.1	1.37	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			PFDoA	307-55-1		5.00	NG_L	U		PR	TRG									5.1	0.792	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			PFTrDA	72629-94-8		5.00	NG_L	U		PR	TRG									5.1	0.494	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			PFTeDA	376-06-7		5.00	NG_L	U		PR	TRG									5.1	0.755	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C3-PFBS	13C3-PFBS		106	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C2-PFHxA	13C2-PFHxA		102	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C4-PFHpA	13C4-PFHpA		108	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			18O2-PFHxS	18O2-PFHxS		88.9	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C2-PFOA	13C2-PFOA		105	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C8-PFOS	13C8-PFOS		105	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C5-PFNA	13C5-PFNA		92.5	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C2-PFDA	13C2-PFDA		73.0	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			d3-MeFOSAA	d3-MeFOSAA		70.8	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C2-PFUnA	13C2-PFUnA		91.0	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			d5-EtFOSAA	d5-EtFOSAA		80.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C2-PFDoA	13C2-PFDoA		98.7	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:00:00	B7J0197-BLK1	1	-999			13C2-PFTeDA	13C2-PFTeDA		129	PCT_REC			PR	IS		SLSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		68.4	NG_L			PR	TRG		LSA	130	70					5.1	1.79	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			PFHxA	307-24-4		68.0	NG_L			PR	TRG		LSA	130	70					5.1	2.18	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		67.1	NG_L			PR	TRG		LSA	130	70					5.1	0.591	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		59.1	NG_L			PR	TRG		LSA	130	70					5.1	0.947	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		75.2	NG_L			PR	TRG		LSA	130	70					5.1	0.651	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		81.4	NG_L			PR	TRG		LSA	130	70					5.1	0.807	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		53.9	NG_L			PR	TRG		LSA	130	70					5.1	0.810	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			PFDA	335-76-2		83.4	NG_L			PR	TRG		LSA	130	70					5.1	1.49	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			MeFOSAA	2355-31-9		67.4	NG_L			PR	TRG		LSA	130	70					5.1	1.65	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			PFUnA	2058-94-8		57.4	NG_L			PR	TRG		LSA	130	70					5.1	1.05	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			EtFOSAA	2991-50-6		68.1	NG_L			PR	TRG		LSA	130	70					5.1	1.37	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			PFDoA	307-55-1		65.5	NG_L			PR	TRG		LSA	130	70					5.1	0.792	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			PFTrDA	72629-94-8		79.0	NG_L			PR	TRG		LSA	130	60					5.1	0.494	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			PFTeDA	376-06-7		56.6	NG_L			PR	TRG		LSA	130	70					5.1	0.755	5.00	8.00	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C3-PFBS	13C3-PFBS		117	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C2-PFHxA	13C2-PFHxA		113	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C4-PFHpA	13C4-PFHpA		114	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			18O2-PFHxS	18O2-PFHxS		121	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C2-PFOA	13C2-PFOA		110	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C8-PFOS	13C8-PFOS		107	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C5-PFNA	13C5-PFNA		116	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C2-PFDA	13C2-PFDA		94.9	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			d3-MeFOSAA	d3-MeFOSAA		79.5	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C2-PFUnA	13C2-PFUnA		75.5	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			d5-EtFOSAA	d5-EtFOSAA		85.8	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C2-PFDoA	13C2-PFDoA		84.3	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	22:03:00	B7J0197-BS1	1	-999			13C2-PFTeDA	13C2-PFTeDA		129	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		74.1	NG_L			PR	TRG		LSA	130	70					5.1	1.92	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			PFHxA	307-24-4		74.3	NG_L			PR	TRG		LSA	130	70					5.1	2.34	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		75.7	NG_L			PR	TRG		LSA	130	70					5.1	0.634	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		75.5	NG_L			PR	TRG		LSA	130	70					5.1	1.02	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		78.5	NG_L			PR	TRG		LSA	130	70					5.1	0.698	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		79.1	NG_L			PR	TRG		LSA	130	70					5.1	0.865	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		57.6	NG_L			PR	TRG		LSA	130	70					5.1	0.869	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			PFDA	335-76-2		73.0	NG_L			PR	TRG		LSA	130	70					5.1	1.60	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			MeFOSAA	2355-31-9		94.3	NG_L			PR	TRG		LSA	130	70					5.1	1.77	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			PFUnA	2058-94-8		78.8	NG_L			PR	TRG		LSA	130	70					5.1	1.13	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			EtFOSAA	2991-50-6		72.8	NG_L			PR	TRG		LSA	130	70					5.1	1.47	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			PFDoA	307-55-1		65.2	NG_L			PR	TRG		LSA	130	70					5.1	0.849	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			PFTrDA	72629-94-8		75.2	NG_L			PR	TRG		LSA	130	60					5.1	0.530	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			PFTeDA	376-06-7		75.2	NG_L			PR	TRG		LSA	130	70					5.1	0.810	5.34	8.58	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C3-PFBS	13C3-PFBS		115	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C2-PFHxA	13C2-PFHxA		110	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C4-PFHpA	13C4-PFHpA		112	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			18O2-PFHxS	18O2-PFHxS		99.5	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C2-PFOA	13C2-PFOA		123	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C8-PFOS	13C8-PFOS		126	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C5-PFNA	13C5-PFNA		125	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C2-PFDA	13C2-PFDA		99.5	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			d3-MeFOSAA	d3-MeFOSAA		86.5	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002

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_Type	Lab_QC_Type	Sample_Medium	QC_Level	DateTime_Collected	Date_Received	Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	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_Limit_Date	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C2-PFUnA	13C2-PFUnA		84.8	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			d5-EtFOSAA	d5-EtFOSAA		93.4	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C2-PFDoA	13C2-PFDoA		93.2	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:45:00	B7J0197-MS1	1	-999			13C2-PFTeDA	13C2-PFTeDA		113	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		70.3	NG_L			PR	TRG		LSA	130	70					5.1	1.87	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			PFHxA	307-24-4		74.6	NG_L			PR	TRG		LSA	130	70					5.1	2.27	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		72.0	NG_L			PR	TRG		LSA	130	70					5.1	0.616	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		80.2	NG_L			PR	TRG		LSA	130	70					5.1	0.987	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		83.7	NG_L			PR	TRG		LSA	130	70					5.1	0.678	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		87.7	NG_L			PR	TRG		LSA	130	70					5.1	0.841	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		67.3	NG_L			PR	TRG		LSA	130	70					5.1	0.844	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			PFDA	335-76-2		70.6	NG_L			PR	TRG		LSA	130	70					5.1	1.55	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			MeFOSAA	2355-31-9		88.6	NG_L			PR	TRG		LSA	130	70					5.1	1.72	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			PFUnA	2058-94-8		77.4	NG_L			PR	TRG		LSA	130	70					5.1	1.09	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			EtFOSAA	2991-50-6		65.8	NG_L			PR	TRG		LSA	130	70					5.1	1.43	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			PFDoA	307-55-1		68.9	NG_L			PR	TRG		LSA	130	70					5.1	0.825	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			PFTrDA	72629-94-8		106	NG_L			PR	TRG		LSA	130	60					5.1	0.515	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			PFTeDA	376-06-7		74.5	NG_L			PR	TRG		LSA	130	70					5.1	0.787	5.21	8.34	1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C3-PFBS	13C3-PFBS		138	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C2-PFHxA	13C2-PFHxA		116	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C4-PFHpA	13C4-PFHpA		118	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			18O2-PFHxS	18O2-PFHxS		106	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C2-PFOA	13C2-PFOA		105	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C8-PFOS	13C8-PFOS		103	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C5-PFNA	13C5-PFNA		89.0	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C2-PFDA	13C2-PFDA		96.0	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			d3-MeFOSAA	d3-MeFOSAA		77.5	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C2-PFUnA	13C2-PFUnA		85.2	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			d5-EtFOSAA	d5-EtFOSAA		96.8	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C2-PFDoA	13C2-PFDoA		80.9	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002
N6247011D8012	WE72		YORKTOWN_NWS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	10/30/2017 11:00	10/30/2017			20171030	11:00:00	20171101	23:56:00	B7J0197-MSD1	1	-999			13C2-PFTeDA	13C2-PFTeDA		106	PCT_REC			PR	IS		LSA	150	50					5.1				1701549	S7K0002

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
NWS YORKTOWN, VIRGINIA

Client: CH2M HILL, Inc., Virginia Beach, Virginia
SDG: 1701549
Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
Site: Naval Weapons Station (NWS) Yorktown, Site 22, CTO-WE72
Date: March 5, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	YS22-GW11-1017	1701549-01	Water
2	YS22-GW11A-1017	1701549-02	Water
3	YS22-EB01-102317	1701549-03	Water
4	YS22-GW06-1017	1701549-04	Water
4MS	YS22-GW06-1017MS	1701549-04MS	Water
4MSD	YS22-GW06-1017MSD	1701549-04MSD	Water
5	YS22-GW04-1017	1701549-05	Water
6	YS22-GW07-1017	1701549-06	Water
7	YS22-GW12-1017	1701549-07	Water
8	YS22-GW12P-1017	1701549-08	Water
9	YS22-GW12A-1017	1701549-09	Water
10	YS22-GW15-1017	1701549-10	Water
11	YS22-GW15A-1017	1701549-11	Water
12	YS22-GW13-1017	1701549-12	Water
13	YS22-EB02-102517	1701549-13	Water

A full data validation was performed on the analytical data for eleven water samples and two aqueous equipment blank samples collected on October 23-25, 2017 by CH2M HILL at the NWS Yorktown site in Virginia. 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	*Method References*
PFCs	USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Final Sampling and Analysis Plan Site 22 Supplemental Pre-Design Investigation, Naval Weapons Station Yorktown, August 2017, 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 as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

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 recoveries (%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
YS22-EB01-102317	None - ND	-	-	-
YS22-EB02-102517	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

MS/MSD Sample	Compound	MS %R/MSD %R/RPD	Qualifier	Affected Samples
4	PFNA	67.1%/OK/OK	None	See LCS
	PFTrDA	OK/OK/36.6	None	For RPD Alone

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R) except for the following.

LCS Sample	Compound	%R	Qualifier	Affected Samples
B7J0197-BS1	PFNA	67.4%	J/UJ	All Samples

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 results are summarized below. The precision was acceptable.

PFCs				
Compound	YS22-GW12-1017 ng/L	YS22-GW12P-1017 ng/L	RPD	Qualifier
PFBS	11.2	12.0	7%	None
PFHxA	18.3	22.7	21%	
PFHpA	3.19	3.49	9%	
PFHxS	98.8	116	16%	
PFOA	6.52	6.66	2%	
PFOS	132	132	0%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 3/6/18

Nancy Weaver
Senior Chemist

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.

Vista Analytical Laboratory

Sample ID: YS22-GW11-1017 **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1701549-01	Column:	BEH C18
Project:	680536 NWSYorktown	Date Collected:	23-Oct-17 16:40	Date Received:	26-Oct-17 08:44		
Location:	Site 22						

1

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHxA	ND	2.32	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHpA	ND	0.630	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFHxS	12.8	1.01	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFOA	ND	0.693	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFOS	ND	0.860	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFNA	~~ND~~ UJ	0.863	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFDA	ND	1.59	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
MeFOSAA	ND	1.76	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFUnA	ND	1.12	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
EtFOSAA	ND	1.46	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFDoA	ND	0.844	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFTrDA	ND	0.526	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
PFTeDA	ND	0.804	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1

BSL

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFHxA	IS	111	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C4-PFHpA	IS	133	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
18O2-PFHxS	IS	115	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFOA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C8-PFOS	IS	111	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C5-PFNA	IS	86.1	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFDA	IS	98.9	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
d3-MeFOSAA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFUnA	IS	93.7	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
d5-EtFOSAA	IS	95.3	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFDoA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	1
13C2-PFTeDA	IS	120	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 00:07	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW11A-1017

Modified EPA Method 537

Client Data			
Name:	CH2M Hill	Matrix:	Groundwater
Project:	680536 NWS Yorktown	Date Collected:	23-Oct-17 18:15
Location:	Site 22		

Laboratory Data			
Lab Sample:	1701549-02	Column:	BEH C18
Date Received:	26-Oct-17 08:44		

2

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHxA	ND	2.35	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHpA	ND	0.636	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFHxS	ND	1.02	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFOA	ND	0.700	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFOS	ND	0.868	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFNA	~~ND~~ UJ	0.872	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFDA	ND	1.60	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
MeFOSAA	ND	1.78	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFUnA	ND	1.13	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
EtFOSAA	ND	1.47	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFDoA	ND	0.852	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFTrDA	ND	0.532	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
PFTeDA	ND	0.812	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1

BSL

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	132	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFHxA	IS	113	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C4-PFHpA	IS	113	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
18O2-PFHxS	IS	103	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFOA	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C8-PFOS	IS	139	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C5-PFNA	IS	90.9	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFDA	IS	83.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
d3-MeFOSAA	IS	81.3	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFUnA	IS	111	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
d5-EtFOSAA	IS	105	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFDoA	IS	108	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	1
13C2-PFTeDA	IS	142	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:18	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-EB01-102317 | **Modified EPA Method 537**

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 23-Oct-17 18:00

Laboratory Data

Lab Sample: 1701549-03
Date Received: 26-Oct-17 08:44
Column: BEH C18 3

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHxA	ND	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHpA	ND	0.626	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFHxS	ND	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFOA	ND	0.690	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFOS	ND	0.855	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFNA	~~ND~~ UJ	0.859	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1 BSL
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFDoA	ND	0.840	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFTrDA	ND	0.524	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFHxA	IS	108	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C4-PFHpA	IS	123	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
18O2-PFHxS	IS	102	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFOA	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C8-PFOS	IS	89.9	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C5-PFNA	IS	94.1	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFDA	IS	83.4	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
d3-MeFOSAA	IS	86.0	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFUnA	IS	84.6	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
d5-EtFOSAA	IS	85.2	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFDoA	IS	98.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	1
13C2-PFTeDA	IS	109	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 00:29	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.

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW06-1017

Modified EPA Method 537

Client Data			
Name:	CH2M Hill	Matrix:	Groundwater
Project:	680536 NWSYorktown	Date Collected:	24-Oct-17 11:00
Location:	Site 22		

Laboratory Data			
Lab Sample:	1701549-04	Column:	BEH C18
Date Received:	26-Oct-17 08:44		

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.86	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHxA	ND	2.27	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHpA	ND	0.615	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFHxS	7.88	0.985	5.21	8.33	J	B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFOA	ND	0.677	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFOS	ND	0.840	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFNA	~~ND~~ UJ	0.843	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1 BSL
PFDA	ND	1.55	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
MeFOSAA	ND	1.72	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFUnA	ND	1.09	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
EtFOSAA	ND	1.43	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFDoA	ND	0.824	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFTrDA	ND	0.514	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
PFTeDA	ND	0.786	5.21	8.33		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	145	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFHxA	IS	120	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C4-PFHpA	IS	122	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
18O2-PFHxS	IS	109	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFOA	IS	134	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C8-PFOS	IS	104	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C5-PFNA	IS	102	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFDA	IS	91.5	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
d3-MeFOSAA	IS	91.3	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFUnA	IS	104	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
d5-EtFOSAA	IS	93.8	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFDoA	IS	111	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	1
13C2-PFTeDA	IS	148	50 - 150		B7J0197	30-Oct-17	0.120 L	02-Nov-17 00:41	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.

NW 3151.8

Vista Analytical Laboratory

Sample ID: YS22-GW04-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 11:35

Laboratory Data

Lab Sample: 1701549-05
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.92	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHxA	ND	2.34	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHpA	ND	0.635	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFHxS	9.13	1.02	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFOA	1.84	0.700	5.39	8.60	J	B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFOS	82.9	0.867	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFNA	~~ND~~ UJ	0.870	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1 BSL
PFDA	ND	1.60	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
MeFOSAA	ND	1.77	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFUnA	ND	1.13	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
EtFOSAA	ND	1.47	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFDoA	ND	0.851	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFTrDA	ND	0.531	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
PFTeDA	ND	0.811	5.39	8.60		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	141	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFHxA	IS	125	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C4-PFHpA	IS	125	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
18O2-PFHxS	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFOA	IS	106	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C8-PFOS	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C5-PFNA	IS	96.5	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFDA	IS	82.7	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
d3-MeFOSAA	IS	81.5	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFUnA	IS	82.3	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
d5-EtFOSAA	IS	107	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFDoA	IS	97.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	1
13C2-PFTeDA	IS	78.1	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 00:52	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW07-1017 | **Modified EPA Method 537**

Client Data

Name: CH2M Hill
Project: 680536 NWS Yorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 13:45

Laboratory Data

Lab Sample: 1701549-06
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	16.2	1.97	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHxA	13.0	2.40	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHpA	2.32	0.650	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFHxS	52.7	1.04	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFOA	0.813	0.716	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFOS	3.37	0.887	5.48	8.80	J	B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFNA	~~ND~~ UJ	0.891	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFDA	ND	1.64	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
MeFOSAA	ND	1.81	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFUnA	ND	1.15	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
EtFOSAA	ND	1.51	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFDoA	ND	0.871	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFTrDA	ND	0.543	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
PFTeDA	ND	0.830	5.48	8.80		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1

BSL

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFHxA	IS	108	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C4-PFHpA	IS	118	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
18O2-PFHxS	IS	100	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFOA	IS	115	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C8-PFOS	IS	109	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C5-PFNA	IS	93.8	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFDA	IS	86.7	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
d3-MeFOSAA	IS	90.6	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFUnA	IS	90.4	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
d5-EtFOSAA	IS	84.9	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFDoA	IS	81.1	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	1
13C2-PFTeDA	IS	121	50 - 150		B7J0197	30-Oct-17	0.114 L	02-Nov-17 01:37	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.

MW3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW12-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 14:40

Laboratory Data

Lab Sample: 1701549-07
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	11.2	1.91	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHxA	18.3	2.32	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHpA	3.19	0.629	5.34	8.52	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFHxS	98.8	1.01	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFOA	6.52	0.693	5.34	8.52	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFOS	132	0.859	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFNA	~~ND~~ 4J	0.862	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1 BSL
PFDA	ND	1.59	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
MeFOSAA	ND	1.76	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFUnA	ND	1.12	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
EtFOSAA	ND	1.46	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFDoA	ND	0.843	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFTrDA	ND	0.526	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
PFTeDA	ND	0.804	5.34	8.52		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	125	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFHxA	IS	112	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C4-PFHpA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
18O2-PFHxS	IS	112	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFOA	IS	119	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C8-PFOS	IS	123	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C5-PFNA	IS	98.0	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFDA	IS	122	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
d3-MeFOSAA	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFUnA	IS	113	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
d5-EtFOSAA	IS	96.6	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFDoA	IS	93.9	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	1
13C2-PFTeDA	IS	116	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 01:48	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.

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW12P-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 14:45

Laboratory Data

Lab Sample: 1701549-08
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	12.0	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHxA	22.7	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHpA	3.49	0.626	5.30	8.48	J	B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFHxS	116	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFOA	6.66	0.690	5.30	8.48	J	B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFOS	132	0.855	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFNA	~~ND~~ UJ	0.858	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFDoA	ND	0.839	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFTrDA	ND	0.523	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1

BSL

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	135	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFHxA	IS	110	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C4-PFHpA	IS	120	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
18O2-PFHxS	IS	104	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFOA	IS	114	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C8-PFOS	IS	128	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C5-PFNA	IS	121	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFDA	IS	97.5	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
d3-MeFOSAA	IS	102	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFUnA	IS	91.7	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
d5-EtFOSAA	IS	116	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFDoA	IS	126	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	1
13C2-PFTeDA	IS	129	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 01:59	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

MW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW12A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 24-Oct-17 16:55

Laboratory Data

Lab Sample: 1701549-09
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHxA	ND	2.35	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHpA	ND	0.636	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFHxS	ND	1.02	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFOA	ND	0.700	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFOS	ND	0.868	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFNA	~~ND~~ UJ	0.871	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1 BSL
PFDA	ND	1.60	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
MeFOSAA	ND	1.78	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFUnA	ND	1.13	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
EtFOSAA	ND	1.47	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFDoA	ND	0.852	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFTrDA	ND	0.532	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
PFTeDA	ND	0.812	5.39	8.61		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	111	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFHxA	IS	116	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C4-PFHpA	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
18O2-PFHxS	IS	114	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFOA	IS	121	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C8-PFOS	IS	110	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C5-PFNA	IS	112	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFDA	IS	91.2	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
d3-MeFOSAA	IS	106	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFUnA	IS	91.4	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
d5-EtFOSAA	IS	85.7	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFDoA	IS	75.2	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	1
13C2-PFTeDA	IS	102	50 - 150		B7J0197	30-Oct-17	0.116 L	02-Nov-17 02:10	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW15-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWS Yorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 09:45

Laboratory Data

Lab Sample: 1701549-10
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.58	1.88	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHxA	4.80	2.28	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHpA	ND	0.619	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFHxS	27.4	0.992	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFOA	1.58	0.682	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFOS	7.96	0.845	5.25	8.38	J	B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFNA	~~ND~~ UJ	0.849	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1 BSL
PFDA	ND	1.56	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
MeFOSAA	ND	1.73	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFUnA	ND	1.10	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
EtFOSAA	ND	1.44	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFDoA	ND	0.830	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFTrDA	ND	0.518	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
PFTeDA	ND	0.791	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	129	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFHxA	IS	109	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C4-PFHpA	IS	112	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
18O2-PFHxS	IS	98.1	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFOA	IS	124	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C8-PFOS	IS	124	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C5-PFNA	IS	91.3	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFDA	IS	92.4	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
d3-MeFOSAA	IS	77.7	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFUnA	IS	70.4	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
d5-EtFOSAA	IS	86.1	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFDoA	IS	76.2	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	1
13C2-PFTeDA	IS	117	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:21	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW15A-1017

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: 680536 NWSYorktown
Location: Site 22
Matrix: Groundwater
Date Collected: 25-Oct-17 12:50

Laboratory Data

Lab Sample: 1701549-11
Date Received: 26-Oct-17 08:44
Column: BEH C18

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.87	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHxA	ND	2.28	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHpA	ND	0.619	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFHxS	ND	0.992	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFOA	ND	0.682	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFOS	ND	0.845	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFNA	~~ND~~ UJ	0.848	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFDA	ND	1.56	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
MeFOSAA	ND	1.73	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFUnA	ND	1.10	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
EtFOSAA	ND	1.43	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFDoA	ND	0.829	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFTrDA	ND	0.517	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
PFTeDA	ND	0.791	5.25	8.38		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1

BSL

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	146	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFHxA	IS	123	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C4-PFHpA	IS	114	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
18O2-PFHxS	IS	119	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFOA	IS	118	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C8-PFOS	IS	112	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C5-PFNA	IS	110	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFDA	IS	103	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
d3-MeFOSAA	IS	92.5	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFUnA	IS	102	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
d5-EtFOSAA	IS	96.9	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFDoA	IS	107	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	1
13C2-PFTeDA	IS	140	50 - 150		B7J0197	30-Oct-17	0.119 L	02-Nov-17 02:32	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-GW13-1017

Modified EPA Method 537

Client Data			
Name:	CH2M Hill	Matrix:	Groundwater
Project:	680536 NWSYorktown	Date Collected:	25-Oct-17 15:25
Location:	Site 22		

Laboratory Data			
Lab Sample:	1701549-12	Column:	BEH C18
Date Received:	26-Oct-17 08:44		

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	21.6	1.91	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHxA	38.3	2.33	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHpA	5.31	0.631	5.34	8.54	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFHxS	157	1.01	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFOA	6.41	0.695	5.34	8.54	J	B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFOS	23.4	0.861	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFNA	~~ND~~ 4J	0.865	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFDA	ND	1.59	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
MeFOSAA	ND	1.76	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFUnA	ND	1.12	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
EtFOSAA	ND	1.46	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFDoA	ND	0.845	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFTrDA	ND	0.527	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
PFTeDA	ND	0.806	5.34	8.54		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1

BSL

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	141	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFHxA	IS	117	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C4-PFHpA	IS	107	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
18O2-PFHxS	IS	107	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFOA	IS	127	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C8-PFOS	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C5-PFNA	IS	96.4	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFDA	IS	102	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
d3-MeFOSAA	IS	100	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFUnA	IS	96.6	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
d5-EtFOSAA	IS	92.8	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFDoA	IS	92.1	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	1
13C2-PFTeDA	IS	114	50 - 150		B7J0197	30-Oct-17	0.117 L	02-Nov-17 02:44	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

NW 3/5/18

Vista Analytical Laboratory

Sample ID: YS22-EB02-102517 **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1701549-13	Column:	BEH C18
Project:	680536 NWS Yorktown	Date Collected:	25-Oct-17 16:05	Date Received:	26-Oct-17 08:44		
Location:	Site 22						

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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHxA	ND	2.31	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHpA	ND	0.627	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFHxS	ND	1.00	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFOA	ND	0.690	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFOS	ND	0.856	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFNA	~~ND~~ 4J	0.859	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1 BSL
PFDA	ND	1.58	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
MeFOSAA	ND	1.75	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFUnA	ND	1.11	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
EtFOSAA	ND	1.45	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFDoA	ND	0.840	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFTrDA	ND	0.524	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
PFTeDA	ND	0.800	5.30	8.48		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	123	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFHxA	IS	112	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C4-PFHpA	IS	119	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
18O2-PFHxS	IS	101	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFOA	IS	133	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C8-PFOS	IS	113	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C5-PFNA	IS	110	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFDA	IS	82.4	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
d3-MeFOSAA	IS	96.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFUnA	IS	94.2	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
d5-EtFOSAA	IS	79.8	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFDoA	IS	86.6	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	1
13C2-PFTeDA	IS	109	50 - 150		B7J0197	30-Oct-17	0.118 L	02-Nov-17 02:55	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

NW 3151.8

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
YS22-GW11A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043909.94	3622263.87	Perfluoroalkyl Compounds	YS22-GW11A-1017	WG	Ground water	23-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW04	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043905	3621934	Perfluoroalkyl Compounds	YS22-GW04-1017	WG	Ground water	24-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB02-102517	WQ	Water for QC samples	25-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW13	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043732.48	3621793.59	Perfluoroalkyl Compounds	YS22-GW13-1017	WG	Ground water	25-Oct-17
		YORKTOWN_NWS			1701549			Perfluoroalkyl Compounds	YS22-EB01-102317	WQ	Water for QC samples	23-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW15	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043636.4	3621912.707	Perfluoroalkyl Compounds	YS22-GW15-1017	WG	Ground water	25-Oct-17
YS22-GW12A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043866.44	3621730.18	Perfluoroalkyl Compounds	YS22-GW12A-1017	WG	Ground water	24-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW11	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043897.88	3622269.9	Perfluoroalkyl Compounds	YS22-GW11-1017	WG	Ground water	23-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12P-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW07	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043793.8	3622105.41	Perfluoroalkyl Compounds	YS22-GW07-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW06	SITE 00022	YORKTOWN_NWS	TWP	Temporary well point	1701549	12043998.28	3622078.28	Perfluoroalkyl Compounds	YS22-GW06-1017	WG	Ground water	24-Oct-17
YS22-GW15A	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043633.7	3621909.261	Perfluoroalkyl Compounds	YS22-GW15A-1017	WG	Ground water	25-Oct-17
YS22-GW12	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701549	12043873.32	3621729.22	Perfluoroalkyl Compounds	YS22-GW12-1017	WG	Ground water	24-Oct-17