December 01, 2016

Vista Work Order No. 1601391

Mr. Kevin Olness
AMEC Foster Wheeler
9210 Sky Park Court Suite 200
San Diego, CA 92123

Dear Mr. Olness,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on November 01, 2016. This sample set was analyzed on a rush turn-around time, under your Project Name 'Alameda Basewide /5023146096'.

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 Lopez for

Martha Maier
Laboratory Director

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

Vista Work Order No. 1601391
Case Narrative

Sample Condition on Receipt:

Twenty aqueous 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. As initially requested, all "EB" and "FB" samples except "EB17_161031" were extracted, but not analyzed. Per client's request, all "EB" and "FB" extracts were removed from hold on November 29, 2016.

Analytical Notes:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of 3 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 OPR recoveries were within the method acceptance criteria

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

As requested, MS/MSDs were performed on samples "M14-09D_161031" and "M14-22_161031".

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1601391-08	M14-09D_161031	Modified EPA Method 537	13C2-PFOA	H	152
1601391-09	M14-09S_161031	Modified EPA Method 537	13C3-PFBS	H	258
1601391-09	M14-09S_161031	Modified EPA Method 537	13C2-PFOA	H	1010
1601391-11	M14-22_161031	Modified EPA Method 537	13C2-PFOA	H	322
1601391-19	M14-23_161031	Modified EPA Method 537	13C2-PFOA	H	192
1601391-20	M14-24_161031	Modified EPA Method 537	13C2-PFOA	H	181
B6K0052-MS1	B6K0052-MS1	Modified EPA Method 537	13C2-PFOA	H	157
B6K0052-MS2	B6K0052-MS2	Modified EPA Method 537	13C2-PFOA	H	312
B6K0052-MSD1	B6K0052-MSD1	Modified EPA Method 537	13C2-PFOA	H	162
B6K0052-MSD2	B6K0052-MSD2	Modified EPA Method 537	13C2-PFOA	H	309

H = Recovery was outside laboratory acceptance criteria.

TABLE OF CONTENTS

Case Narrative..... 1

Table of Contents..... 3

Sample Inventory..... 4

Analytical Results..... 6

Qualifiers..... 31

Certifications..... 32

Sample Receipt..... 35

Extraction Information..... 38

Sample Data - Modified EPA Method 537..... 44

Continuing Calibration..... 188

Initial Calibration..... 229

Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1601391-01	DUP06_161031		31-Oct-16 10:28	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-02	EB-M14-09D_161031		31-Oct-16 10:38	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-03	EB-M14-09S_161031		31-Oct-16 09:50	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-04	EB-M14-14_161031		31-Oct-16 09:00	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-05	FB-M14-09D_161031		31-Oct-16 10:33	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-06	FB-M14-09S_161031		31-Oct-16 09:45	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-07	FB-M14-14_161031		31-Oct-16 08:55	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-08	M14-09D_161031	MS/MSD	31-Oct-16 10:23	01-Nov-16 09:08	HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
1601391-09	M14-09S_161031		31-Oct-16 09:40	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-10	M14-14_161031		31-Oct-16 08:50	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-11	M14-22_161031	MS/MSD	31-Oct-16 12:10	01-Nov-16 09:08	HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
1601391-12	EB17_161031		31-Oct-16 14:15	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-13	EB-M14-22_161031		31-Oct-16 12:20	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601391-14	EB-M14-23_161031		31-Oct-16 13:10	01-Nov-16 09:08	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1601391-15	EB-M14-24_161031	31-Oct-16 14:00	01-Nov-16 09:08	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601391-16	FB-M14-22_161031	31-Oct-16 12:15	01-Nov-16 09:08	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601391-17	FB-M14-23_161031	31-Oct-16 13:05	01-Nov-16 09:08	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601391-18	FB-M14-24_161031	31-Oct-16 13:55	01-Nov-16 09:08	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601391-19	M14-23_161031	31-Oct-16 13:03	01-Nov-16 09:08	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601391-20	M14-24_161031	31-Oct-16 13:50	01-Nov-16 09:08	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank — Modified EPA Method 537

Matrix:	Aqueous	QC Batch:	B6K0052	Lab Sample:	B6K0052-BLK1
Sample Size:	0.125 L	Date Extracted:	08-Nov-2016 9:31	Date Analyzed:	14-Nov-16 17:40 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.79	4.00	8.00	
PFOA	ND	0.651	2.00	8.00	
PFOS	ND	0.807	0.900	8.00	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	114	60 - 150	
IS	13C2-PFOA	95.7	60 - 150	
IS	13C8-PFOS	118	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, 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

Matrix:	Aqueous	QC Batch:	B6K0052	Lab Sample:	B6K0052-BS1
Sample Size:	0.125 L	Date Extracted:	08-Nov-2016 9:31	Date Analyzed:	14-Nov-16 16:51 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
PFBS	90.6	80.0	113	60 - 130	IS	13C3-PFBS	112	60 - 150
PFOA	82.7	80.0	103	70 - 130	IS	13C2-PFOA	91.2	60 - 150
PFOS	82.6	80.0	103	70 - 130	IS	13C8-PFOS	99.6	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: DUP06_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-01	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.125 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 10:28			Date Analyzed:	15-Nov-16 17:20 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	1190	71.6	160.	320	D
PFOA	19500	26.1	80.0	320	D
PFOS	43900	32.3	36.0	320	D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	122	60 - 150	D
IS	13C2-PFOA	148	60 - 150	D
IS	13C8-PFOS	95.4	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB-M14-09D_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-02	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.131 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 10:38			Date Analyzed:	30-Nov-16 08:48	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.71	3.82	7.66	
PFOA	ND	0.623	1.91	7.66	
PFOS	ND	0.772	0.859	7.66	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	90.5	60 - 150	
IS	13C2-PFOA	132	60 - 150	
IS	13C8-PFOS	124	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB-M14-09S_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-03	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.130 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 9:50			Date Analyzed:	30-Nov-16 09:00	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.72	3.85	7.68	
PFOA	ND	0.625	1.92	7.68	
PFOS	3.12	0.775	0.865	7.68	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	101	60 - 150	
IS	13C2-PFOA	116	60 - 150	
IS	13C8-PFOS	127	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB-M14-14_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-04	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.133 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 9:00			Date Analyzed:	30-Nov-16 09:13	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.68	3.76	7.50	
PFOA	ND	0.610	1.88	7.50	
PFOS	ND	0.756	0.846	7.50	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	91.7	60 - 150	
IS	13C2-PFOA	112	60 - 150	
IS	13C8-PFOS	120	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FB-M14-09D_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-05	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.131 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 10:33			Date Analyzed:	30-Nov-16 09:26 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.71	3.82	7.64	
PFOA	ND	0.621	1.91	7.64	
PFOS	ND	0.770	0.859	7.64	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	101	60 - 150	
IS	13C2-PFOA	122	60 - 150	
IS	13C8-PFOS	127	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FB-M14-09S_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-06	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.131 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 9:45			Date Analyzed:	30-Nov-16 09:40 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.70	3.82	7.62	
PFOA	0.676	0.620	1.91	7.62	J
PFOS	1.58	0.768	0.859	7.62	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	89.8	60 - 150	
IS	13C2-PFOA	116	60 - 150	
IS	13C8-PFOS	96.3	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FB-M14-14_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-07	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.130 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 8:55			Date Analyzed:	30-Nov-16 09:53 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.72	3.85	7.68	
PFOA	ND	0.625	1.92	7.68	
PFOS	ND	0.775	0.865	7.68	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	103	60 - 150	
IS	13C2-PFOA	112	60 - 150	
IS	13C8-PFOS	124	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: M14-09D_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-08	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.128 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 10:23			Date Analyzed:	15-Nov-16 17:44 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	1200	69.8	156.	312	D
PFOA	24600	25.4	78.1	312	D
PFOS	39200	31.5	35.2	312	D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	106	60 - 150	D
IS	13C2-PFOA	152	60 - 150	D, H
IS	13C8-PFOS	107	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: M14-09D_161031
Source LabNumber: 1601391-08
Matrix: Aqueous
Sample Size: 0.128/0.127 L

QC Batch: B6K0052
Date Extracted: 08-Nov-2016 9:31

Lab Sample: B6K0052-MS1/B6K0052-MSD1
Date Analyzed: 15-Nov-16 18:46 Column: BEH C18
15-Nov-16 19:10 Column: BEH C18

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	RPD	MSD Qual.	%R Limit	%RPD Limit
PFBS	78.3	**27.7**	D, H	78.9	68.2	**84.5**	D, H	60 - 130	25
PFOA	78.3	**-8200**	D, H	78.9	**-9030**	9.63	D, H	70 - 130	25
PFOS	78.3	**5960**	D, H	78.9	**5990**	0.502	D, H	70 - 130	25

	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
IS	13C3-PFBS	125	D	112	D
IS	13C2-PFOA	157	D, H	162	D, H
IS	13C8-PFOS	100	D	91.0	D

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

Sample ID: M14-09S_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-09	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.130 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 9:40			Date Analyzed:	15-Nov-16 18:09	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	7870	68.8	154.	308	D
PFOA	34300	25.0	76.9	308	D
PFOS	302000	31.0	34.6	308	E, D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	258	60 - 150	D, H
IS	13C2-PFOA	1010	60 - 150	D, H
IS	13C8-PFOS	111	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: M14-14_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-10	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.125 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 8:50			Date Analyzed:	15-Nov-16 18:21	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	214	17.9	40.0	79.8	D
PFOA	5560	6.50	20.0	79.8	D
PFOS	1540	8.05	9.00	79.8	D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	108	60 - 150	D
IS	13C2-PFOA	109	60 - 150	D
IS	13C8-PFOS	111	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: M14-22_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-11	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.124 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 12:10			Date Analyzed:	15-Nov-16 20:11	Column: BEH C18	
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	3040	72.1	161.	322	D
PFOA	35200	26.2	80.6	322	D
PFOS	258000	32.5	36.3	322	E, D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	134	60 - 150	D
IS	13C2-PFOA	322	60 - 150	D, H
IS	13C8-PFOS	111	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Matrix Spike Results

Modified EPA Method 537

Source Client ID:	M14-22_161031	QC Batch:	B6K0052	Lab Sample:	B6K0052-MS2/B6K0052-MSD2
Source LabNumber:	1601391-11	Date Extracted:	08-Nov-2016 9:31	Date Analyzed:	15-Nov-16 22:14 Column: BEH C18
Matrix:	Aqueous				15-Nov-16 22:38 Column: BEH C18
Sample Size:	0.125/0.127 L				

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	RPD	MSD Qual.	%R Limit	%RPD Limit
PFBS	79.9	91.8	D	79.0	**9.39**	**163**	D, H	60 - 130	25
PFOA	79.9	**-1600**	D, H	79.0	**909**	**726**	D, H	70 - 130	25
PFOS	79.9	**15100**	D, H	79.0	**9320**	**47.3**	D, H	70 - 130	25

	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
IS	13C3-PFBS	136	D	126	D
IS	13C2-PFOA	312	D, H	309	D, H
IS	13C8-PFOS	104	D	111	D

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

Sample ID: EB17_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-12	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.128 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 14:15			Date Analyzed:	14-Nov-16 22:09	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.74	3.91	7.80	
PFOA	20.1	0.635	1.95	7.80	
PFOS	21.7	0.787	0.879	7.80	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	120	60 - 150	
IS	13C2-PFOA	100	60 - 150	
IS	13C8-PFOS	105	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB-M14-22_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-13	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.127 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 12:20			Date Analyzed:	30-Nov-16 10:06 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.77	3.94	7.89	
PFOA	ND	0.642	1.97	7.89	
PFOS	ND	0.796	0.886	7.89	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	108	60 - 150	
IS	13C2-PFOA	112	60 - 150	
IS	13C8-PFOS	144	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB-M14-23_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-14	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.130 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 13:10			Date Analyzed:	30-Nov-16 10:18	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.72	3.85	7.67	
PFOA	ND	0.624	1.92	7.67	
PFOS	3.11	0.773	0.865	7.67	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	111	60 - 150	
IS	13C2-PFOA	121	60 - 150	
IS	13C8-PFOS	128	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB-M14-24_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-15	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.129 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 14:00			Date Analyzed:	30-Nov-16 10:31	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.73	3.88	7.75	
PFOA	ND	0.631	1.94	7.75	
PFOS	1.70	0.782	0.872	7.75	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	111	60 - 150	
IS	13C2-PFOA	112	60 - 150	
IS	13C8-PFOS	128	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FB-M14-22_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-16	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.128 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 12:15			Date Analyzed:	30-Nov-16 10:43 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.74	3.91	7.78	
PFOA	ND	0.633	1.95	7.78	
PFOS	ND	0.785	0.879	7.78	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	111	60 - 150	
IS	13C2-PFOA	118	60 - 150	
IS	13C8-PFOS	113	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FB-M14-23_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-17	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.129 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 13:05			Date Analyzed:	30-Nov-16 10:56 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.73	3.88	7.75	
PFOA	ND	0.631	1.94	7.75	
PFOS	1.61	0.782	0.872	7.75	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	105	60 - 150	
IS	13C2-PFOA	109	60 - 150	
IS	13C8-PFOS	109	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FB-M14-24_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601391-18	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.126 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 13:55			Date Analyzed:	30-Nov-16 11:09 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.77	3.97	7.92	
PFOA	ND	0.645	1.98	7.92	
PFOS	1.61	0.799	0.893	7.92	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	108	60 - 150	
IS	13C2-PFOA	126	60 - 150	
IS	13C8-PFOS	109	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: M14-23_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-19	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.129 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 13:03			Date Analyzed:	15-Nov-16 20:36 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	1140	69.3	155.	310	D
PFOA	23700	25.2	77.5	310	D
PFOS	42500	31.2	34.9	310	D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	117	60 - 150	D
IS	13C2-PFOA	192	60 - 150	D, H
IS	13C8-PFOS	107	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: M14-24_161031 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	Groundwater	Lab Sample:	1601391-20	Date Received:	01-Nov-2016 9:08
Project:	Alameda Basewide /5023146096	Sample Size:	0.131 L	QC Batch:	B6K0052	Date Extracted:	08-Nov-2016 9:31
Date Collected:	31-Oct-2016 13:50			Date Analyzed:	15-Nov-16 21:00	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	1040	68.4	153.	306	D
PFOA	27600	24.9	76.3	306	D
PFOS	67700	30.8	34.4	306	E, D

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	111	60 - 150	D
IS	13C2-PFOA	181	60 - 150	D, H
IS	13C8-PFOS	110	60 - 150	D

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, 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**

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
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

1601391 1.3°C

CHAIN OF CUSTODY

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
Vista Analytical
1104 Windfield Way
El Dorado Hills, CA 95762
Atten: Karen Lopez
Lab Phone# 916-673-1520

DATE: 10/31/2016
COC #: COC161031
PAGE: 1 OF 2

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	KMEA	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		2423 Hoover Ave	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	.03.****		National City, CA 91950	Waybill Number:	N/A

Sample Information / Methods for Analysis / RUSH

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFOS, PFOA, and PFBS	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	DUP06_161031	10/31/16 10:28	WG	FD	N	X						
2	EB-M14-09D_161031	10/31/16 10:38	WQ	EB	N	X						X
3	EB-M14-09S_161031	10/31/16 09:50	WQ	EB	N	X						X
4	EB-M14-14_161031	10/31/16 09:00	WQ	EB	N	X						X
5	FB-M14-09D_161031	10/31/16 10:33	WQ	FB	N	X						X
6	FB-M14-09S_161031	10/31/16 09:45	WQ	FB	N	X						X
7	FB-M14-14_161031	10/31/16 08:55	WQ	FB	N	X						X
8	M14-09D_161031	10/31/16 10:23	WG	N	Y	X						
9	M14-09S_161031	10/31/16 09:40	WG	N	N	X						
10	M14-14_161031	10/31/16 08:50	WG	N	N	X						
11	M14-22_161031	10/31/16 12:10	WG	N	Y	X						
12												

Sampler's Signature:		Date: 10/31/16	Time: 16:45
Relinquished By/Affiliation:		Date: 10/31/16	Time: 16:00
Received By:	FedEx	Date:	Time:
Relinquished By/Affiliation:	FedEx	Date:	Time:
Received By:		Date: 11/01/16	Time: 0917
Relinquished By/Affiliation:		Date:	Time:
Received By (LAB):		Date:	Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request
EB-.., FB-.. - Extraction Only

NUMBER OF COOLERS SENT: 1

1601391

CHAIN OF CUSTODY

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
Vista Analytical
1104 Windfield Way
El Dorado Hills, CA 95762
Atten: Karen Lopez
Lab Phone# 916-673-1520

DATE: 10/31/2016
COC #: COC161031
PAGE: 2 OF 2

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	KMEA	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		2423 Hoover Ave	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	.03.****		National City, CA 91950	Waybill Number:	N/A

Sample Information / Methods for Analysis / RUSH

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFOS, PFOA, and PFBS	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	EB17_161031	10/31/16 14:15	WQ	EB	N	X						
2	EB-M14-22_161031	10/31/16 12:20	WQ	EB	N	X						X
3	EB-M14-23_161031	10/31/16 13:10	WQ	EB	N	X						X
4	EB-M14-24_161031	10/31/16 14:00	WQ	EB	N	X						X
5	FB-M14-22_161031	10/31/16 12:15	WQ	FB	N	X						X
6	FB-M14-23_161031	10/31/16 13:05	WQ	FB	N	X						X
7	FB-M14-24_161031	10/31/16 13:55	WQ	FB	N	X						X
8	M14-23_161031	10/31/16 13:03	WG	N	N	X						
9	M14-24_161031	10/31/16 13:50	WG	N	N	X						
10												
11												
12												

Sampler's Signature:		Date: 10/31/16	Time: 14:45
Relinquished By/Affiliation:	Wf Rutter	Date: 10/31/16	Time: 16:00
Received By:	FedEx	Date:	Time:
Relinquished By/Affiliation:		Date:	Time:
Received By:		Date: 11/01/16	Time: 0917
Relinquished By/Affiliation:		Date:	Time:
Received By (LAB):		Date:	Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request
EB-..., FB-... - Extraction Only

NUMBER OF COOLERS SENT: 1

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 1601391 TAT Std

Samples Arrival:	Date/Time 11/01/16 0908	Initials: BLB	Location: WR-2 Shelf/Rack: NA
Logged In:	Date/Time 11/01/16 1607	Initials: KL BLB	Location: WR-2 Shelf/Rack: A4

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

Temp °C: 1.6	(uncorrected)	Time: 0917	Thermometer ID: IR-1
Temp °C: 1.3	(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 # 8081 8722 0818	✓		
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			Yes	No	NA
Shipping Container	Vista	Client	Retain	Return	Dispose	

Comments:

BLA 09/06/2016

EXTRACTION INFORMATION

Process Sheet

Workorder: 1601391

Prep Expiration: 11/14/2016

Client: AMEC Foster Wheeler

Workorder Due: 15-Nov-16 00:00

TAT: 14

Method: **537 PFAS**

Matrix: **Aqueous**

Prep Batch: B6K0052

Prep Data Entered: 11/10/16 JS

Date and Initials

Version: Version1-PFOA, PFOS, PFBS only

Initial Sequence: S6K0046

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1601391-01 "A"	☑	DUP06_161031	01-Nov-16 09:08	WR-2 A-4	
1601391-02 "A"	☑	EB-M14-09D_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-03 "A"	☑	EB-M14-09S_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-04 "A"	☑	EB-M14-14_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-05 "A"	☑	FB-M14-09D_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-06 "A"	☑	FB-M14-09S_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-07 "A"	☑	FB-M14-14_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-08 "A,B,C"	☑	M14-09D_161031	01-Nov-16 09:08	WR-2 A-4	**MS/MSD**
1601391-09 "A"	☑	M14-09S_161031	01-Nov-16 09:08	WR-2 A-4	
1601391-10 "A"	☑	M14-14_161031	01-Nov-16 09:08	WR-2 A-4	
1601391-11 "A" "BC"	☑	M14-22_161031	01-Nov-16 09:08	WR-2 A-4	**MS/MSD**
1601391-12 "A"	☑	EB17_161031	01-Nov-16 09:08	WR-2 A-4	
1601391-13 "A"	☑	EB-M14-22_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-14 "A"	☑	EB-M14-23_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-15 "A"	☑	EB-M14-24_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-16 "A"	☑	FB-M14-22_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-17 "A"	☑	FB-M14-23_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-18 "A"	☑	FB-M14-24_161031	01-Nov-16 09:08	WR-2 A-4	**Extract and hold**
1601391-19 "A"	☑	M14-23_161031	01-Nov-16 09:08	WR-2 A-4	
1601391-20 "A"	☑	M14-24_161031	01-Nov-16 09:08	WR-2 A-4	

WO Comments: **DoD**

Extract all of the Equipment Blanks, but only analyze the extract if the associated sample exceeds EPA PHAs (70 ng/L) for PFOA, PFOS, PFOA + PFOS and 380 ug/L for PFBS.

Vista PM:Martha Maier

Vial Box ID: Reptar / Baby stuff

Sample Reconciled By: INJ 11/8/16

Page 1 of 1

Percent Solids

Vista Analytical Laboratory

Project: B6K0052 *Balance ID:* HRMS-9

Sample ID	Chemist: NA Date: ↓ Time:		Chemist: NA Date: ↓ Time:	Chemist/Date INJ 11/8/16		
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH* after	Cl⁻
1601391-01				8	2	0
02				5	2	0
03				5	2	0
04				5	2	0
05				5	2	0
06				5	2	0
07				5	2	0
08A				7	2	0
08B				7	2	0
08C				7	2	0
09				7	2	0
10				7	2	0
11A				7	2	0
11B				7	2	0
11C				7	2	0
12				5	2	0
13				5	2	0
14				5	2	0
15				5	2	0
16				5	2	0

INJ 11/8/16

Procedure:

- Tare the balance.
- Record Boat Weight.
- Add 2 - 10 g of sample.
- Record Wet Wt. + Boat Wt.
- Dry in oven overnight at 107°C.
- Tare the balance.
- Record Residue + Boat Wt.

Notes:

- *Methods 8280, 613, 1613, 8290, 1614 – pH <9*
- *Methods 1668/PCN – pH 2-3*
- *NCASI 551 – pH 1*

%Solids rmh 5/2011

Percent Solids

Vista Analytical Laboratory

Project: B6K0052 **Balance ID:** HRMS-9

Sample ID	Chemist: NA Date: ↓ Time:		Chemist: NA Date: ↓ Time:	Chemist/Date INJ 11/8/16		
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH* after	Cl
1601391-17 (A)				5	2	0
-18 ↓				5	2	0
-19 (B)		INJ 11/8/16		7	2	0
-20 ↓				7	2	0

Procedure:

- Tare the balance.
- Record Boat Weight.
- Add 2 - 10 g of sample.
- Record Wet Wt. + Boat Wt.
- Dry in oven overnight at 107°C.
- Tare the balance.
- Record Residue + Boat Wt.

Notes:

(A) 2 drops HCl used to adjust pH

(B) 3 drops HCl used to adjust pH

- *Methods 8280, 613, 1613, 8290, 1614 – pH <9*
- *Methods 1668/PCN – pH 2-3*
- *NCASI 551 – pH 1*

%Solids rmh 5/2011

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS

B6K0052

Chemist: E Schneider

Prep Date/Time: 08-Nov-16 09:31

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE (C6K0052)	RS CHEM/WIT DATE
☐	B6K0052-BLK1	NA	NA	(0.125)	ES INJ 11/8/16	INJ 11/8/16	ON INJ 11/8/16
☐	B6K0052-BS1	↓	↓	↓	↓	↓	↓
☐	B6K0052-MS1 1601391-08 (A)	154.97	27.25	0.12772			
☐	B6K0052-MS2 1601391-11	152.46	27.33	0.12513			
☐	B6K0052-MSD1 1601391-08	154.08	27.37	0.12671			
☐	B6K0052-MSD2 1601391-11	153.99	27.34	0.12665			
☐	1601391-01	152.24	27.32	0.12492			ON INJ 11/8/16
☐	1601391-02	157.84	27.21	0.13063			
☐	1601391-03	157.44	27.29	0.13015			
☐	1601391-04	INJ 11/8/16 ~~160.70~~ 160.70	27.32	0.13338			
☐	1601391-05	158.15	27.21	0.13094			
☐	1601391-06	158.65	27.34	0.13131			
☐	1601391-07	157.36	27.23	0.13013			
☐	1601391-08	155.48	27.29	0.12819			
☐	1601391-09	157.30	27.23	0.13007			

IS Name (J4) 16I2604, 10µL

NS Name (J2) 16I1601, 10µL

RS Name (J1) 16I2603, 10µL

SPE Chem: Strata 33µm 200mg/6mL

Ele SOLV: 0.5% NH4OH in MeOH / MeOH

Final Volume(s) 1mL

Check Out: Chemist/Date: INJ 11/8/16

Check In: Chemist/Date: N/A

Balance ID: HRMS-9

Comments: Assume 1 g = 1 mL

Matrix: Aqueous

Method: 537 PFAS

PREPARATION BENCH SHEET

B6K0052

Chemist: E. Schneider

Prep Date/Time: 08-Nov-16 09:31

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	C6K0052 SPE	RS CHEM/WIT DATE
☐	1601391-10 Ⓐ	152.53	27.28	0.12525	28 INJ 11/8/16	INJ 11/8/16	AM INJ 11/8/16
☐	1601391-11	151.48	27.29	0.12419			
☐	1601391-12	155.47	27.24	0.12823			
☐	1601391-13	153.98	27.27	0.12671			AM INJ 11/8/16
☐	1601391-14	157.16	27.31	0.13045			
☐	1601391-15	156.30	27.28	0.12902			
☐	1601391-16	155.70	27.22	0.12848			
☐	1601391-17	156.33	27.36	0.12897			
☐	1601391-18	153.45	27.21	0.12624			
☐	1601391-19	156.54	27.33	0.12921			
☐	1601391-20	158.11	27.22	0.13089			

Ⓐ Samples centrifuged and decanted back into original bottles INJ 11/9/16

IS Name	NS Name	RS Name		
V4 16I2604, 10uL	V2 16I1604, 10uL	V1 16I2603, 10uL	SPE Chem: Strata X AW 33um 200mg/6mL Ele SOLV: 0.5% NH4OH in MeOH+MeOH Final Volume(s) 1mL	Check Out: Chemist/Date: INJ 11/8/16 Check In: Chemist/Date: N/A Balance ID: HRMS-9

Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_09.qld

Last Altered: Wednesday, November 16, 2016 10:08:59 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:09:32 Pacific Standard Time

Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 15 Nov 2016 16:30:48
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-BLK1, Description: Method Blank, Name: 161114J2_09.wiff, Date: 14-Nov-2016, Time: 17:40:28

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90	1.932e0	6.585e3		0.125	3.43		
2	8	PFOA	368.90	7.176e1	6.995e3		0.125	4.69	0.495	
3	10	PFOS	79.92	4.612e0	3.783e3		0.125	5.08		
4	15	13C3-PFBS	79.95	6.585e3	1.086e4	0.531	0.125	3.42	114	114
5	16	13C2-PFHxA	269.90	3.787e3	1.086e4	0.905	0.125	3.82	38.5	96.4
6	17	13C4-PFHpA	321.90	8.208e3	1.086e4	0.770	0.125	4.29	98.2	98.2
7	18	18O2-PFHxS	102.90	1.272e3	4.994e3	0.276	0.125	4.41	92.3	92.3
8	19	13C2-6:2 FTS	408.90	2.310e3	1.102e4	0.219	0.125	4.64	95.8	95.8
9	20	13C2-PFOA	369.90	6.995e3	1.102e4	0.663	0.125	4.68	95.7	95.7
10	21	13C5-PFNA	422.90	5.751e3	6.027e3	1.019	0.125	5.01	93.6	93.6
11	22	13C8-PFOS	79.93	3.783e3	3.489e3	0.921	0.125	5.07	118	118
12	26	13C5-PFHxA	273.00	1.086e4	1.086e4	1.000	0.125	3.81	100	100
13	27	13C3-PFHxS	80.01	4.994e3	4.994e3	1.000	0.125	4.41	100	100
14	28	13C8-PFOA	375.90	1.102e4	1.102e4	1.000	0.125	4.68	100	100
15	29	13C4-PFOS	79.94	3.489e3	3.489e3	1.000	0.125	5.07	100	100
16	30	13C9-PFNA	427.00	6.027e3	6.027e3	1.000	0.125	5.01	100	100
17	31	13C6-PFDA	474.00	4.729e3	4.729e3	1.000	0.125	5.29	100	100
18	32	Total PFBS	79.90		6.585e3		0.125			
19	34	Total PFOA	368.90		6.995e3		0.125		0.495	
20	35	Total PFOS	79.92		3.783e3		0.125			

Rev'd: MM 11/22/16 AC 11/16/16

Vista Analytical Laboratory Q1

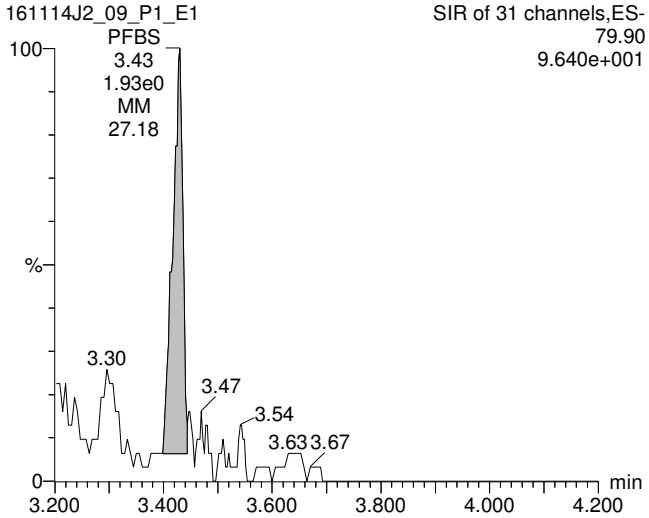
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_09.qld

Last Altered: Wednesday, November 16, 2016 10:08:59 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:09:32 Pacific Standard Time

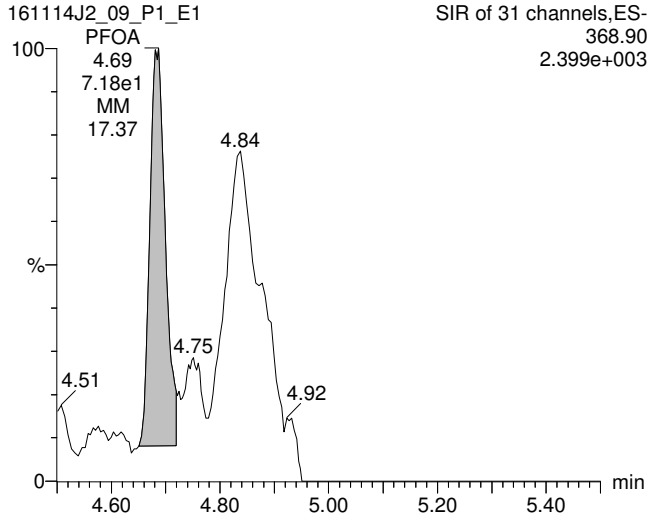
Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 15 Nov 2016 16:30:48
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-BLK1, Description: Method Blank, Name: 161114J2_09.wiff, Date: 14-Nov-2016, Time: 17:40:28, Instrument: , Lab: ©PE-SCIEX, User: sciex

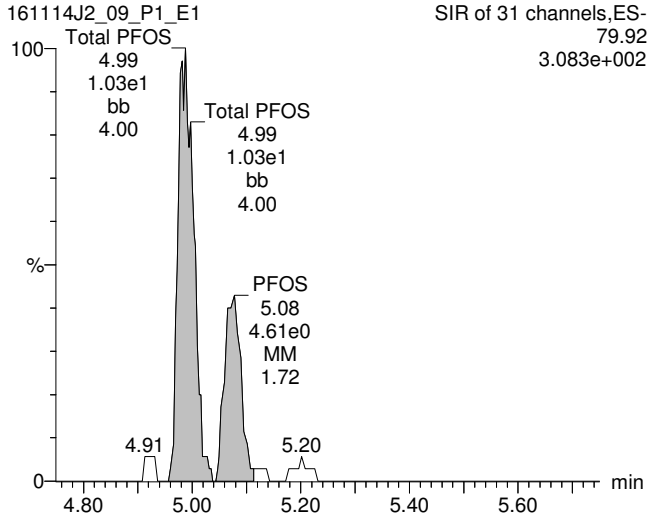
Total PFBS



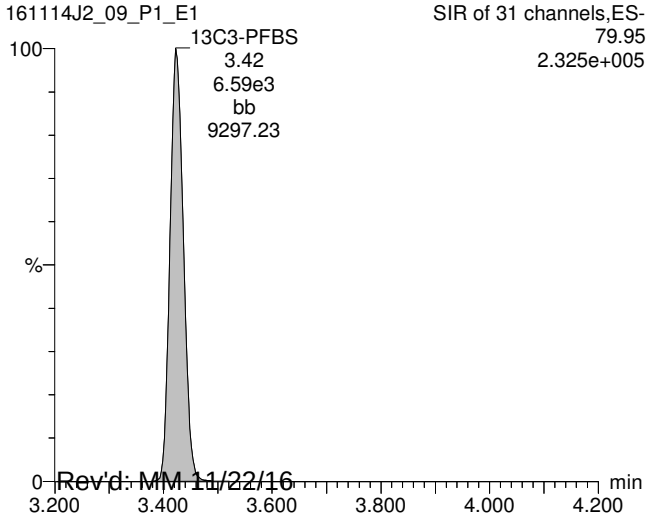
Total PFOA



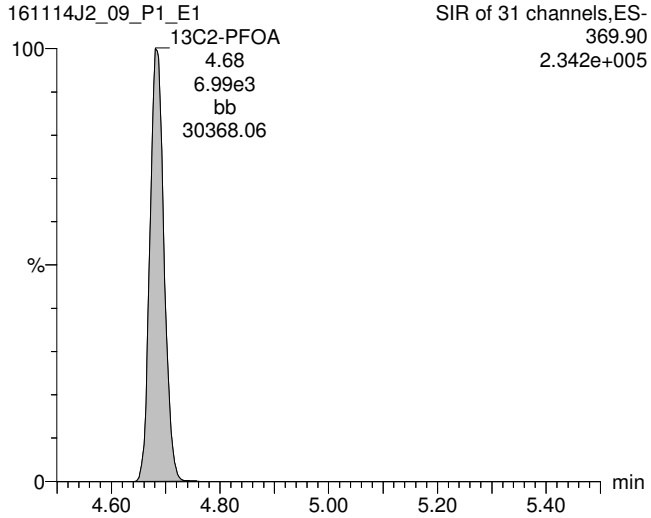
Total PFOS



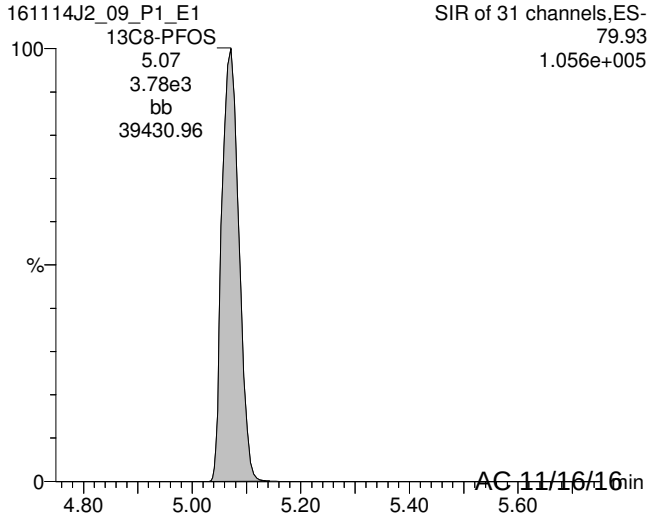
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/22/16 AC 11/16/16

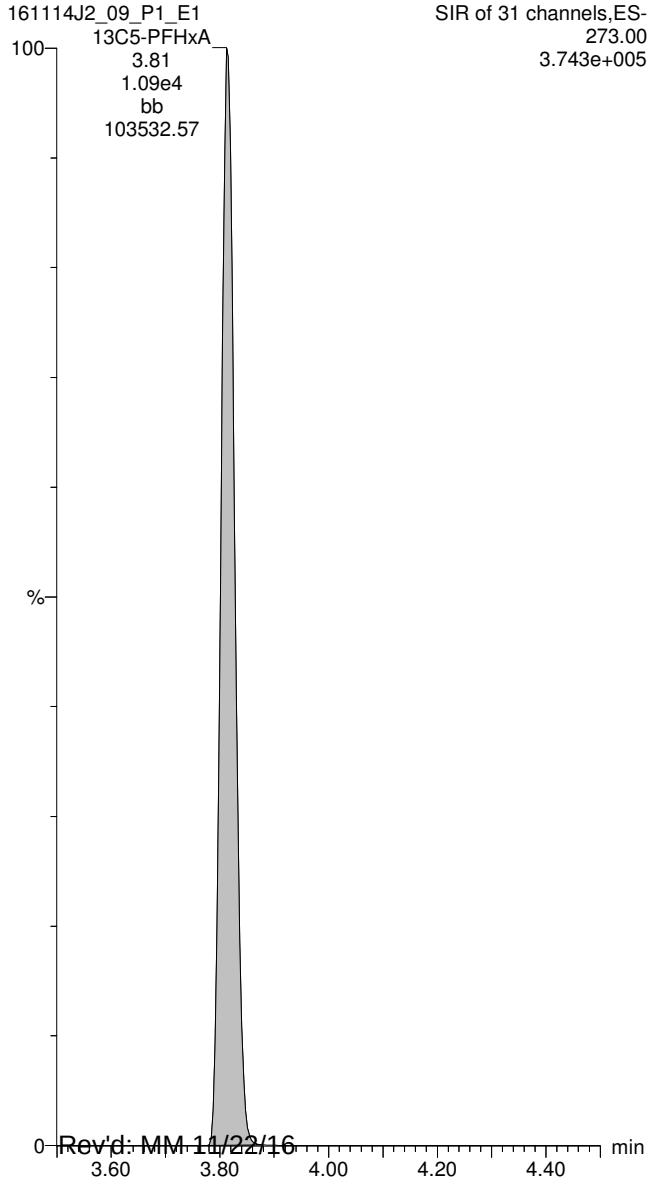
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_09.qld

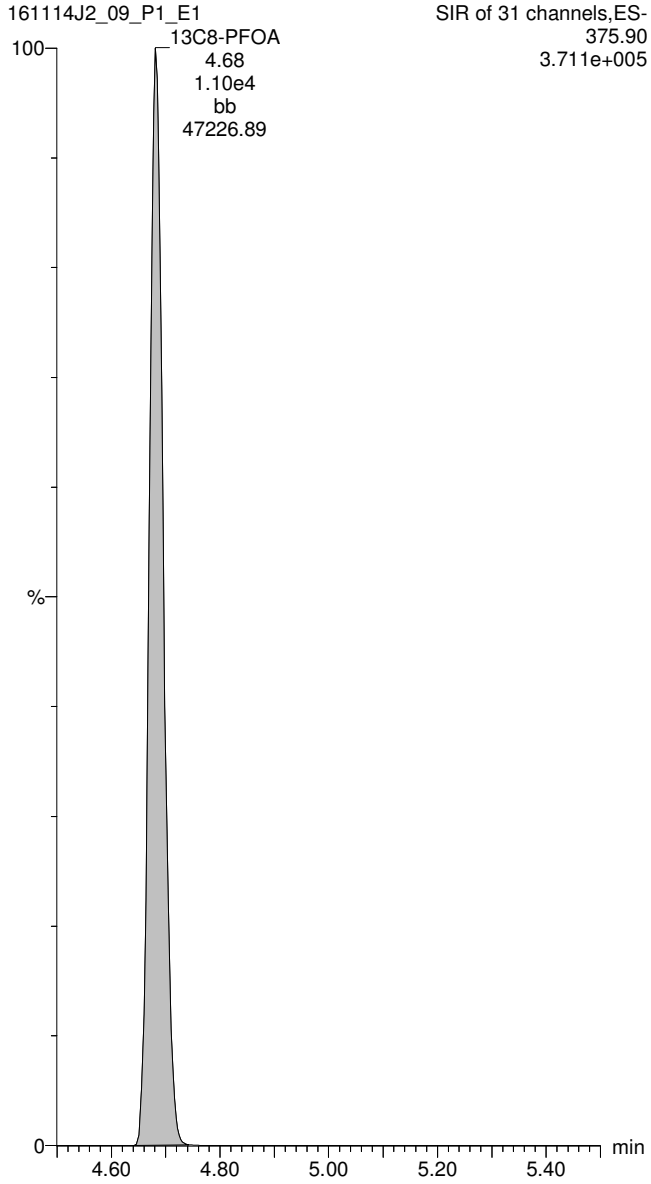
Last Altered: Wednesday, November 16, 2016 10:08:59 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:09:32 Pacific Standard Time

ID: B6K0052-BLK1, Description: Method Blank, Name: 161114J2_09.wiff, Date: 14-Nov-2016, Time: 17:40:28, Instrument: , Lab: ©PE-SCIEX, User: sciex

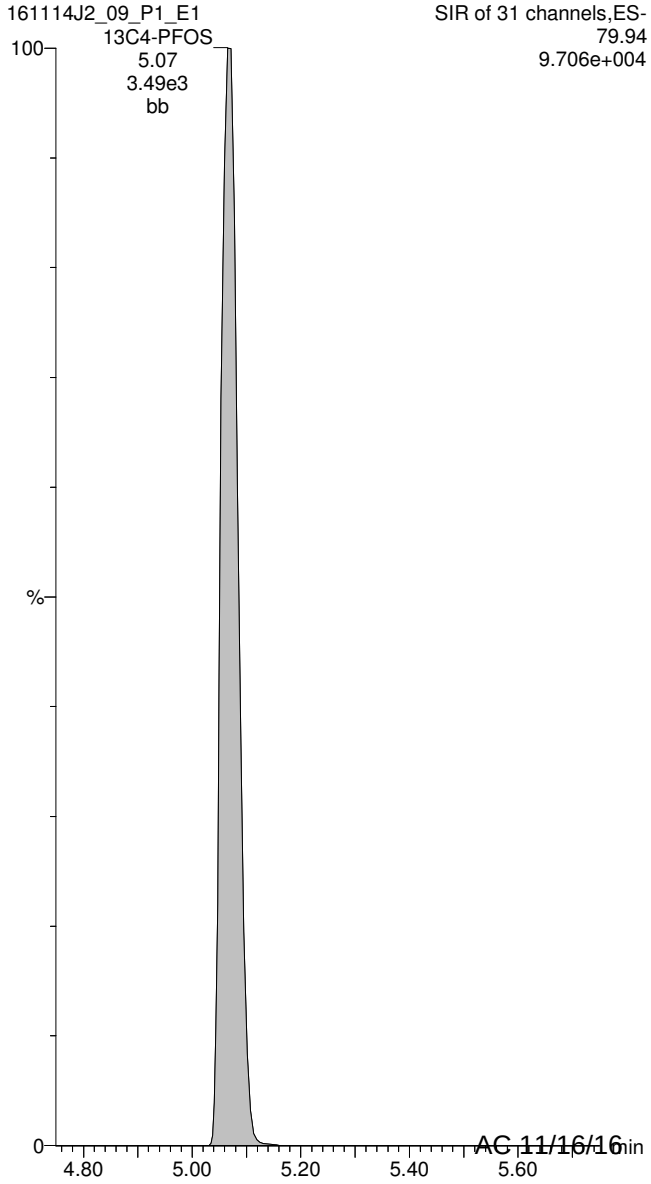
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/22/16 AC 11/16/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_05.qld

Last Altered: Wednesday, November 16, 2016 10:06:23 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:06:56 Pacific Standard Time

Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 15 Nov 2016 16:30:48
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-BS1, Description: OPR, Name: 161114J2_05.wiff, Date: 14-Nov-2016, Time: 16:51:31

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90	4.344e3	6.225e3		0.125	3.42	90.6	113
2	8	PFOA	368.90	6.862e3	6.431e3		0.125	4.69	82.7	103
3	10	PFOS	79.92	3.269e3	3.134e3		0.125	5.07	82.6	103
4	15	13C3-PFBS	79.95	6.225e3	1.043e4	0.531	0.125	3.42	112	112
5	16	13C2-PFHxA	269.90	3.661e3	1.043e4	0.905	0.125	3.82	38.8	97.0
6	17	13C4-PFHpA	321.90	7.207e3	1.043e4	0.770	0.125	4.29	89.8	89.8
7	18	18O2-PFHxS	102.90	1.274e3	4.463e3	0.276	0.125	4.41	103	103
8	19	13C2-6:2 FTS	408.90	2.160e3	1.063e4	0.219	0.125	4.64	92.9	92.9
9	20	13C2-PFOA	369.90	6.431e3	1.063e4	0.663	0.125	4.69	91.2	91.2
10	21	13C5-PFNA	422.90	5.281e3	5.980e3	1.019	0.125	5.01	86.6	86.6
11	22	13C8-PFOS	79.93	3.134e3	3.417e3	0.921	0.125	5.07	99.6	99.6
12	26	13C5-PFHxA	273.00	1.043e4	1.043e4	1.000	0.125	3.81	100	100
13	27	13C3-PFHxS	80.01	4.463e3	4.463e3	1.000	0.125	4.41	100	100
14	28	13C8-PFOA	375.90	1.063e4	1.063e4	1.000	0.125	4.69	100	100
15	29	13C4-PFOS	79.94	3.417e3	3.417e3	1.000	0.125	5.07	100	100
16	30	13C9-PFNA	427.00	5.980e3	5.980e3	1.000	0.125	5.01	100	100
17	31	13C6-PFDA	474.00	2.696e0	2.696e0	1.000	0.125	5.35	100	100
18	32	Total PFBS	79.90		6.225e3		0.125		90.6	
19	34	Total PFOA	368.90		6.431e3		0.125		82.7	
20	35	Total PFOS	79.92		3.134e3		0.125		82.6	

Vista Analytical Laboratory Q1

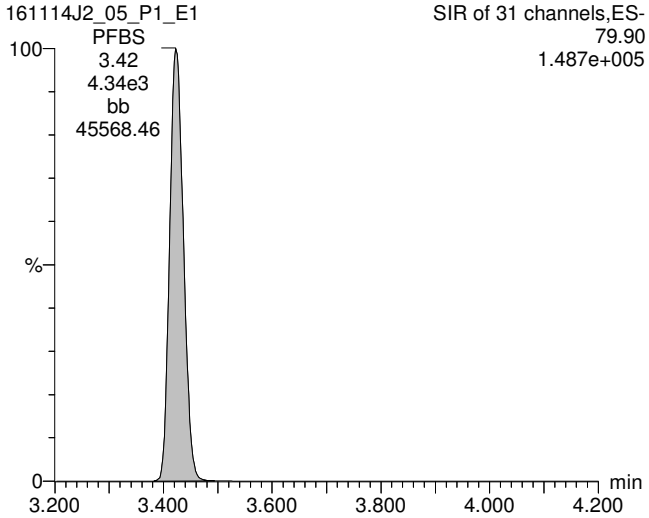
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_05.qld

Last Altered: Wednesday, November 16, 2016 10:06:23 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:06:56 Pacific Standard Time

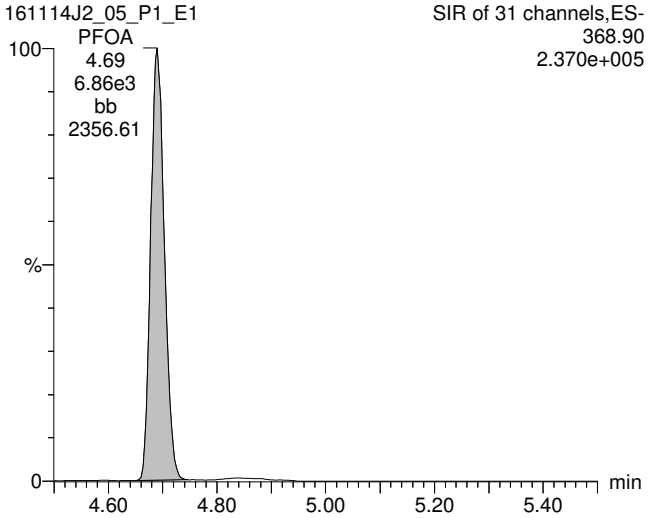
Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 15 Nov 2016 16:30:48
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-BS1, Description: OPR, Name: 161114J2_05.wiff, Date: 14-Nov-2016, Time: 16:51:31, Instrument: , Lab: ©PE-SCIEX, User: sciex

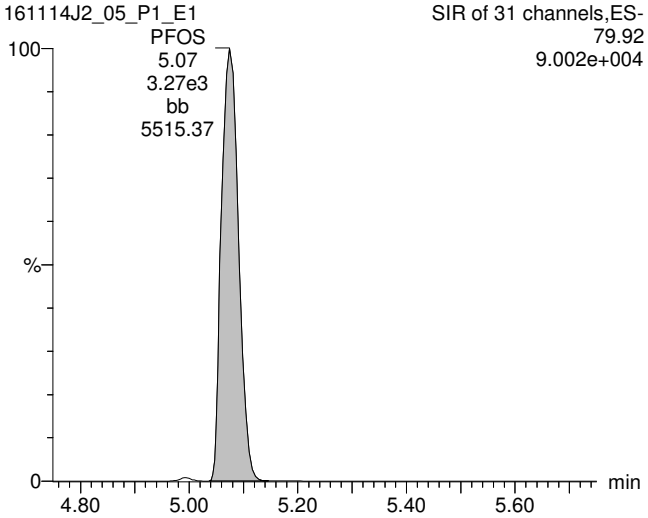
Total PFBS



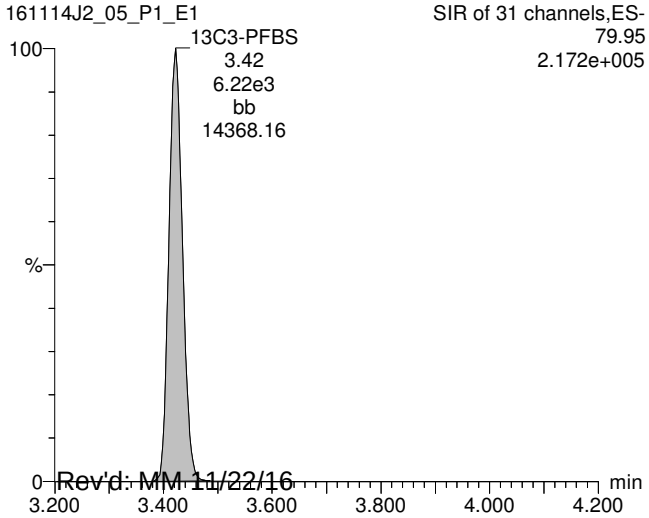
Total PFOA



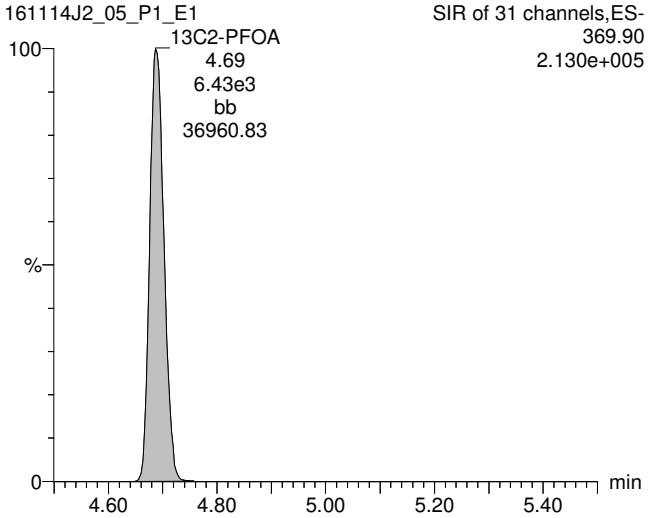
Total PFOS



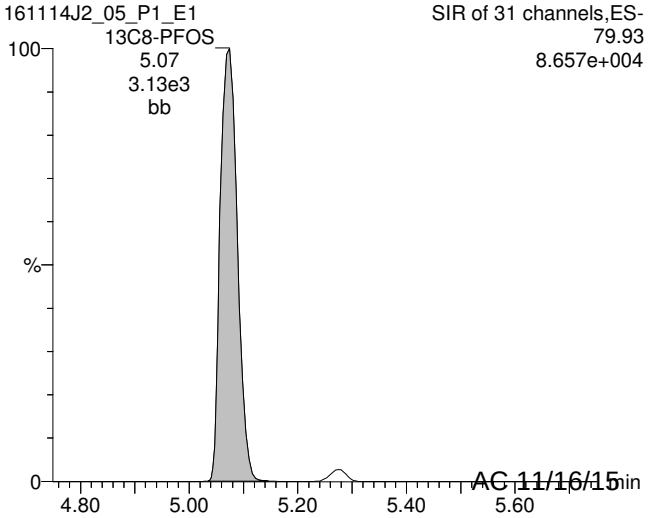
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/22/16 AC 11/16/15

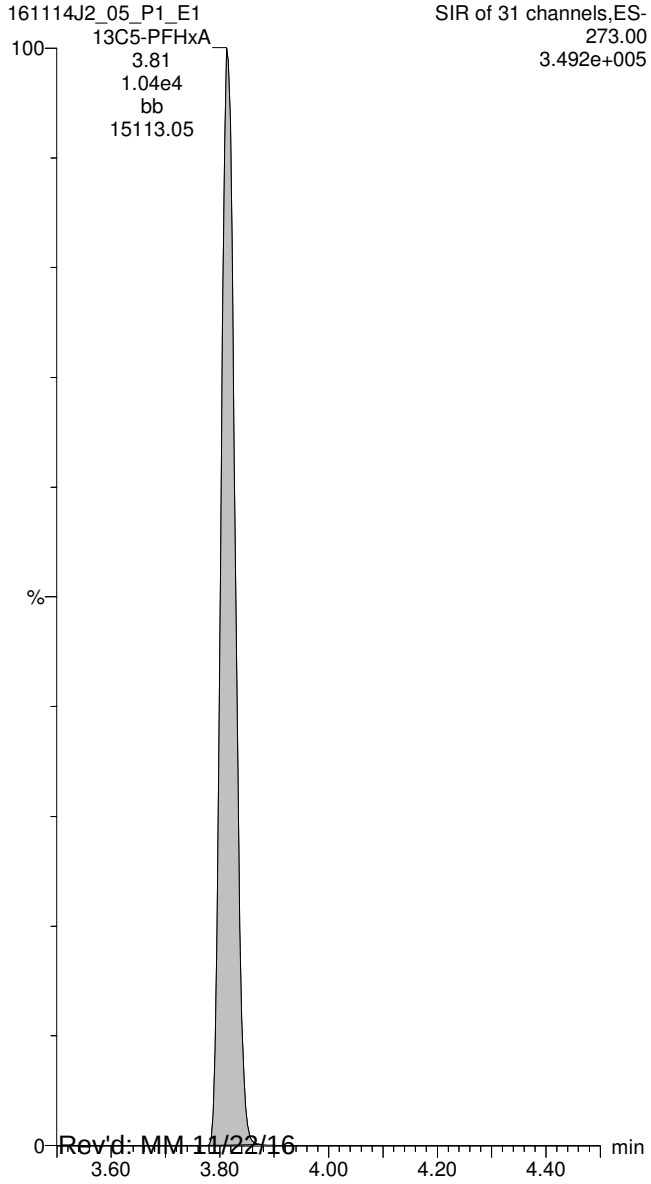
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_05.qld

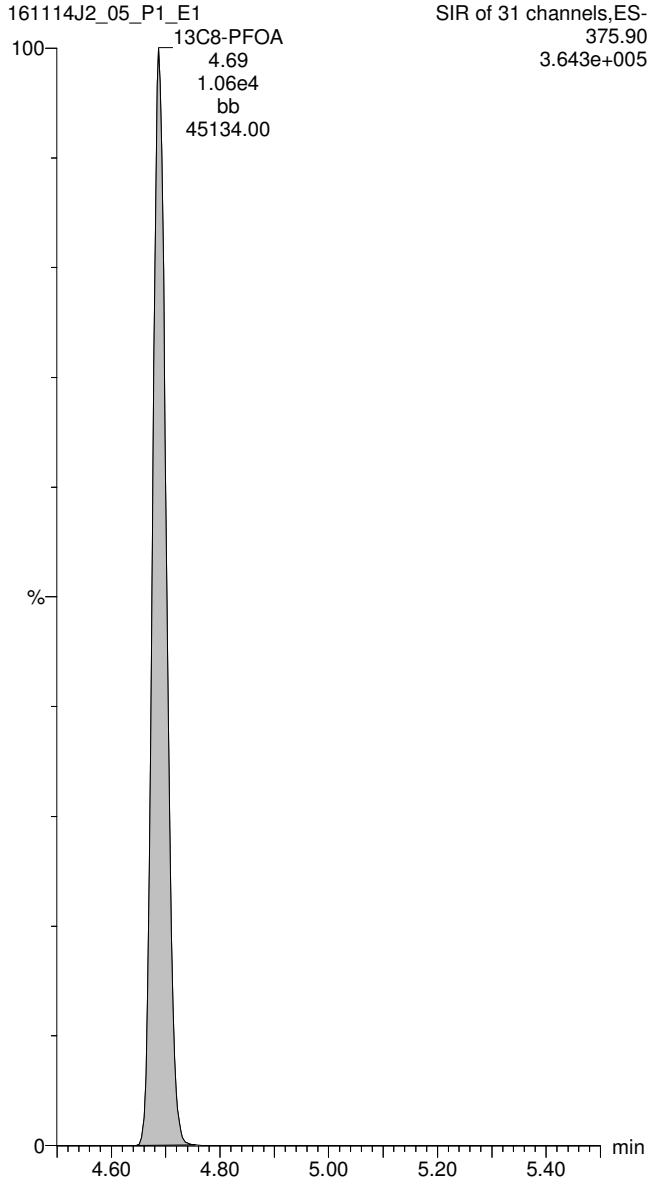
Last Altered: Wednesday, November 16, 2016 10:06:23 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:06:56 Pacific Standard Time

ID: B6K0052-BS1, Description: OPR, Name: 161114J2_05.wiff, Date: 14-Nov-2016, Time: 16:51:31, Instrument: , Lab: ©PE-SCIEX, User: sciex

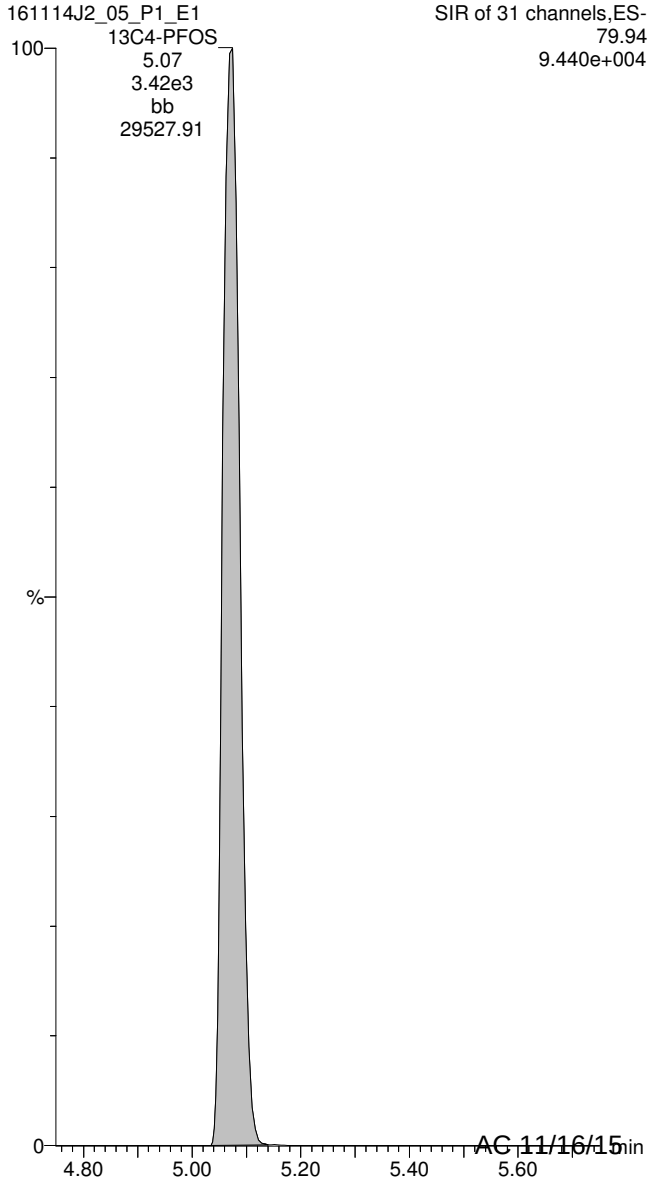
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/22/16 AC 11/16/15

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ngLTarget.qld

Last Altered: Tuesday, November 22, 2016 16:39:33 Pacific Standard Time
Printed: Tuesday, November 22, 2016 16:41:18 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90	8.511e3	7.991e2		0.125	3.41	1160	
2	8	PFOA	368.90	2.037e5	1.029e3		0.125	4.68	*	
3	10	PFOS	79.92	7.415e4	2.453e2		0.125	5.07	24200	
4	15	13C3-PFBS	79.95	7.991e2	1.236e3	0.531	0.125	3.41	122	122
5	16	13C2-PFHxA	269.90	5.368e2	1.236e3	0.905	0.125	3.80	48.0	120
6	17	13C4-PFHpA	321.90	1.017e3	1.236e3	0.770	0.125	4.29	107	107
7	18	18O2-PFHxS	102.90	1.184e2	3.568e2	0.276	0.125	4.40	120	120
8	19	13C2-6:2 FTS	408.90	3.028e2	1.049e3	0.219	0.125	4.63	132	132
9	20	13C2-PFOA	369.90	1.029e3	1.049e3	0.663	0.125	4.67	148	148
10	21	13C5-PFNA	422.90	7.257e2	7.206e2	1.019	0.125	5.01	98.9	98.8
11	22	13C8-PFOS	79.93	2.453e2	2.792e2	0.921	0.125	5.07	95.5	95.4
12	25	13C4-PFBA	171.90	1.297e3	1.297e3	1.000	0.125	1.91	100	100
13	26	13C5-PFHxA	273.00	1.236e3	1.236e3	1.000	0.125	3.80	100	100
14	27	13C3-PFHxS	80.01	3.568e2	3.568e2	1.000	0.125	4.40	100	100
15	28	13C8-PFOA	375.90	1.049e3	1.049e3	1.000	0.125	4.67	100	100
16	29	13C4-PFOS	79.94	2.792e2	2.792e2	1.000	0.125	5.07	100	100
17	30	13C9-PFNA	427.00	7.206e2	7.206e2	1.000	0.125	5.01	100	100
18	31	13C6-PFDA	474.00	3.647e2	3.647e2	1.000	0.125	5.30	100	100
19	32	Total PFBS	79.90		7.991e2		0.125		1190	
20	34	Total PFOA	368.90		1.029e3		0.125		103 *	
21	35	Total PFOS	79.92		2.453e2		0.125		43900	

* Report from ug/L Targeting

Rev'd: MM 11/25/16 pw 11/22/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ngLTarget.qld

Last Altered: Tuesday, November 22, 2016 16:39:33 Pacific Standard Time
Printed: Tuesday, November 22, 2016 16:41:18 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.41	8510.781	799.064	1157.3
2	32	Total PFBS	79.90	3.28	178.569	799.064	28.4

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	106502.211	118.388	17834.5
2	33	Total PFHxS	79.91	4.31	31295.049	118.388	6757.7
3	33	Total PFHxS	79.91	4.20	259.135	118.388	67.7

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	203655.344	1029.110	
2	34	Total PFOA	368.90	4.58	64575.563	1029.110	
3	34	Total PFOA	368.90	4.47	1365.780	1029.110	103.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.07	74150.617	245.342	24172.0
2	35	Total PFOS	79.92	4.98	18434.328	245.342	6008.7
3	35	Total PFOS	79.92	4.96	36797.098	245.342	11994.9
4	35	Total PFOS	79.92	4.87	5289.892	245.342	1723.7

Vista Analytical Laboratory Q1

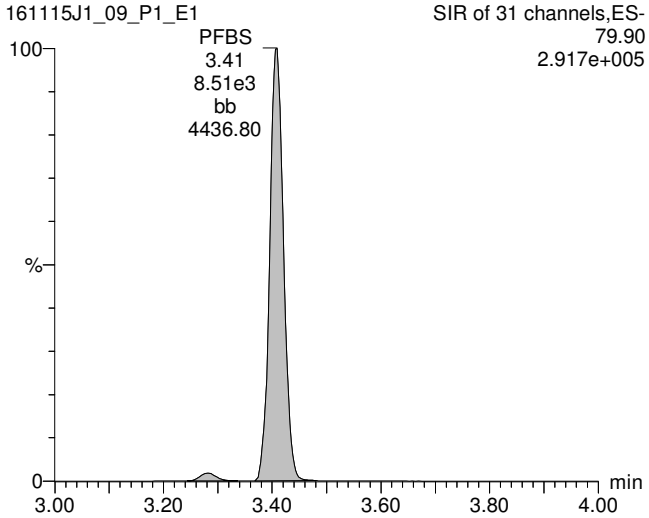
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ngLTarget.qld

Last Altered: Tuesday, November 22, 2016 16:39:33 Pacific Standard Time
Printed: Tuesday, November 22, 2016 16:41:18 Pacific Standard Time

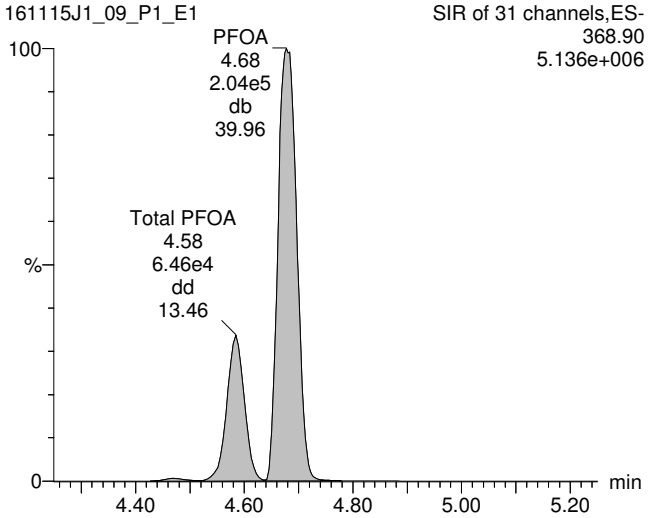
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25, Instrument: , Lab: ©PE-SCIEX, User: sciex

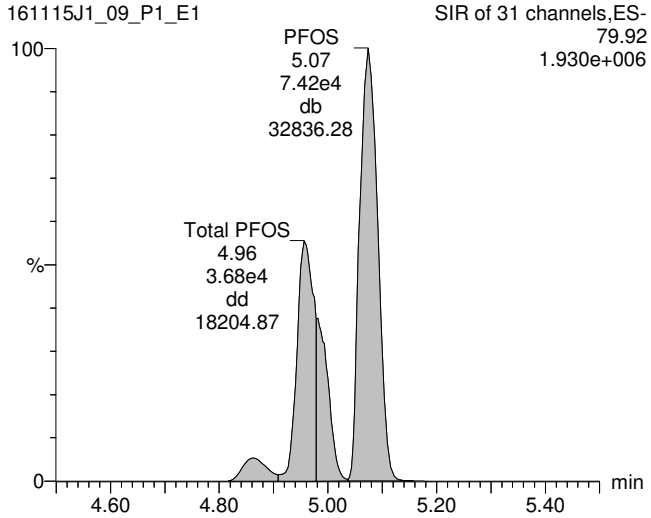
Total PFBS



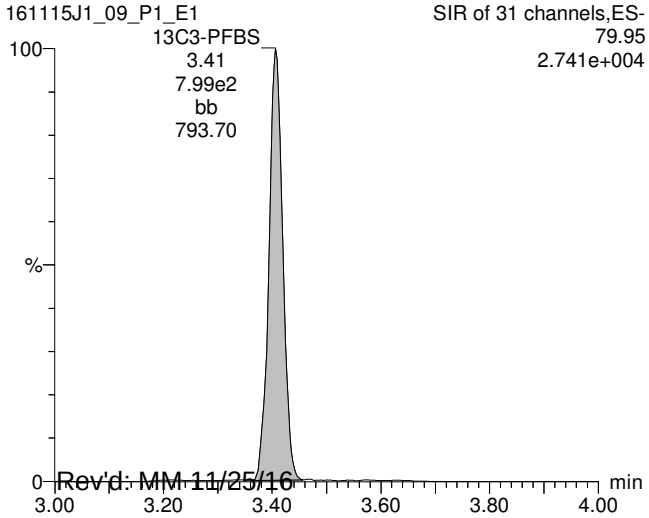
Total PFOA



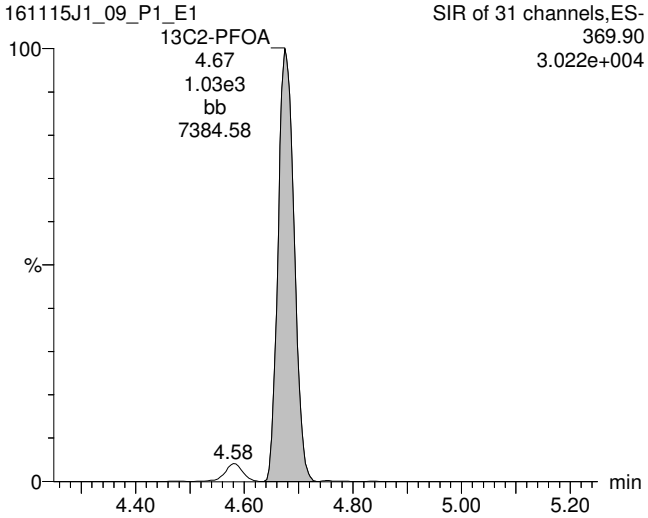
Total PFOS



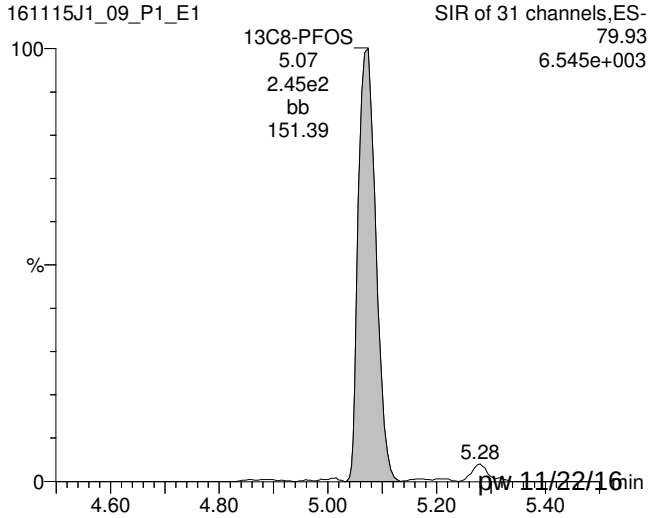
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/22/16

TargetLynx - 161115J1_09_ngLTarget.qld

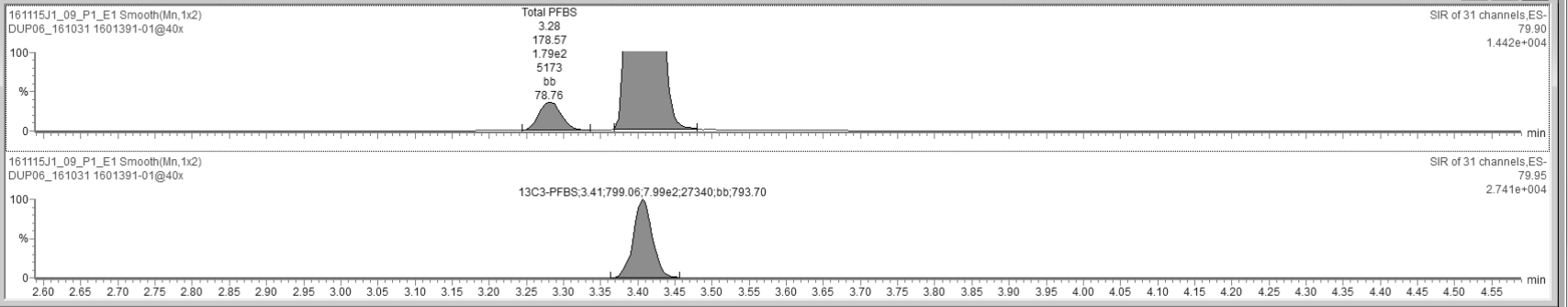
File Edit View Display Processing Window Help

161115J1_09_P1_E1 - 1601391-01@40x - DUP06_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
14	13C3-PFPeA	116.55550	0.500	116.5		1.362e3	0.945	3.11	14	26			0.818	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
15	13C3-PFBS	121.80915	0.399	121.7		7.991e2	0.531	3.41	15	26			0.895	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
16	13C2-PFHxA	48.025049	0.0588	120.0		5.368e2	0.905	3.80	16	26			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
17	13C4-PFHpA	106.91702	0.0340	106.8		1.017e3	0.770	4.29	17	26			1.127	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
18	18O2-PFHxS	120.32520	0.265	120.2		1.184e2	0.276	4.40	18	27			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
19	13C2-6:2 FTS	132.01966	0.0527	131.9		3.028e2	0.219	4.63	19	28			0.990	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
20	13C2-PFOA	147.91749	0.0500	147.8		1.029e3	0.663	4.67	20	28			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
21	13C5-PFNA	98.850074	0.0532	98.8		7.257e2	1.019	5.01	21	30			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
22	13C8-PFOS	95.452571	1.48	95.4		2.453e2	0.921	5.07	22	29			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
23	13C2-PFDA	73.094847	0.0000...	73.0		2.363e2	0.887	5.29	23	31			0.999	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
24	13C2-8:2 FTS	70.174751	0.0000...	70.1		6.948e1	0.272	5.28	24	31			0.996	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
25	13C4-PFBA	100.06404	0.257	100.0		1.297e3	1.000	1.91	25	25			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
26	13C5-PFHxA	100.06404	0.0259	100.0		1.236e3	1.000	3.80	26	26			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
27	13C3-PFHxS	100.06404	0.222	100.0		3.568e2	1.000	4.40	27	27			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
28	13C8-PFOA	100.06404	0.749	100.0		1.049e3	1.000	4.67	28	28			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
29	13C4-PFOS	100.06404	0.223	100.0		2.792e2	1.000	5.07	29	29			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
30	13C9-PFNA	100.06404	0.0853	100.0		7.206e2	1.000	5.01	30	30			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
31	13C6-PFDA	100.06404	0.0000...	100.0		3.647e2	1.000	5.30	31	31			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
32	Total PFBS	1185.6943							32					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
33	Total PFHxS	24659.902							33					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
34	Total PFOA	103.49754							34					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
35	Total PFOS	43899.353							35					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.41	2.914e5		8.511e3				8.511e3	1157.3	
2	Total PFBS	3.28	5.173e3		1.786e2				1.786e2	28.352	

Chromatogram



Ready 161115J1_09_P1_E1 NUM

TargetLynx - 161115J1_09_ngLTarget.qld

File Edit View Display Processing Window Help

161115J1_09_P1_E1 - 1601391-01@40x - DUP06_161031

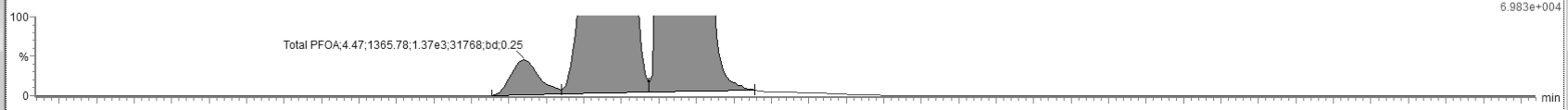
	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
14	13C3-PFPeA	116.55550	0.500	116.5		1.362e3	0.945	3.11	14	26			0.818	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
15	13C3-PFBS	121.80915	0.399	121.7		7.991e2	0.531	3.41	15	26			0.895	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
16	13C2-PFHxA	48.025049	0.0588	120.0		5.368e2	0.905	3.80	16	26			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
17	13C4-PFHpA	106.91702	0.0340	106.8		1.017e3	0.770	4.29	17	26			1.127	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
18	18O2-PFHxS	120.32520	0.265	120.2		1.184e2	0.276	4.40	18	27			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
19	13C2-6:2 FTS	132.01966	0.0527	131.9		3.028e2	0.219	4.63	19	28			0.990	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
20	13C2-PFOA	147.91749	0.0500	147.8		1.029e3	0.663	4.67	20	28			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
21	13C5-PFNA	98.850074	0.0532	98.8		7.257e2	1.019	5.01	21	30			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
22	13C8-PFOS	95.452571	1.48	95.4		2.453e2	0.921	5.07	22	29			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
23	13C2-PFDA	73.094847	0.0000...	73.0		2.363e2	0.887	5.29	23	31			0.999	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
24	13C2-8:2 FTS	70.174751	0.0000...	70.1		6.948e1	0.272	5.28	24	31			0.996	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
25	13C4-PFBA	100.06404	0.257	100.0		1.297e3	1.000	1.91	25	25			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
26	13C5-PFHxA	100.06404	0.0259	100.0		1.236e3	1.000	3.80	26	26			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
27	13C3-PFHxS	100.06404	0.222	100.0		3.568e2	1.000	4.40	27	27			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
28	13C8-PFOA	100.06404	0.749	100.0		1.049e3	1.000	4.67	28	28			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
29	13C4-PFOS	100.06404	0.223	100.0		2.792e2	1.000	5.07	29	29			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
30	13C9-PFNA	100.06404	0.0853	100.0		7.206e2	1.000	5.01	30	30			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
31	13C6-PFDA	100.06404	0.0000...	100.0		3.647e2	1.000	5.30	31	31			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
32	Total PFBS	1185.6943							32					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
33	Total PFHxS	24659.902							33					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
34	Total PFOA	103.49754							34					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
35	Total PFOS	43899.353							35					15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.68	5.133e6		2.037e5				2.037e5		
2	Total PFOA	4.58	1.729e6		6.458e4				6.458e4		

Chromatogram

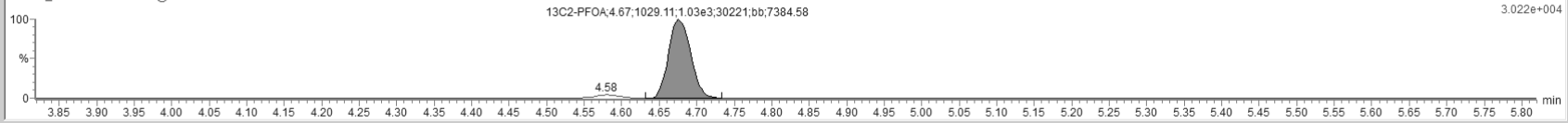
161115J1_09_P1_E1 Smooth(Mn,1x2)
DUP06_161031 1601391-01@40x

SIR of 31 channels,ES-
368.90
6.983e+004



161115J1_09_P1_E1 Smooth(Mn,1x2)
DUP06_161031 1601391-01@40x

SIR of 31 channels,ES-
369.90
3.022e+004



Ready 161115J1_09_P1_E1 NUM

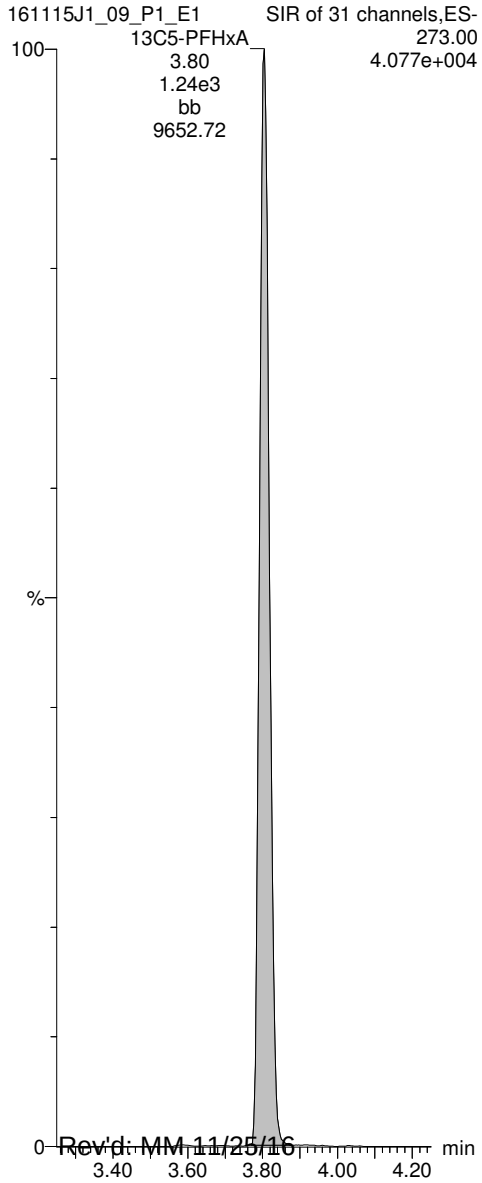
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ngLTarget.qld

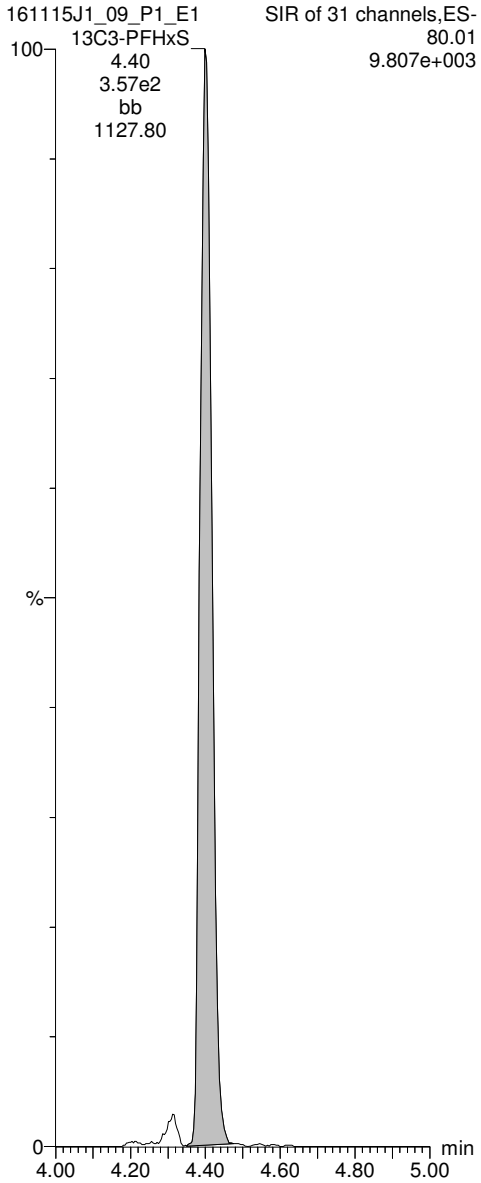
Last Altered: Tuesday, November 22, 2016 16:39:33 Pacific Standard Time
Printed: Tuesday, November 22, 2016 16:41:18 Pacific Standard Time

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25, Instrument: , Lab: ©PE-SCIEX, User: sciex

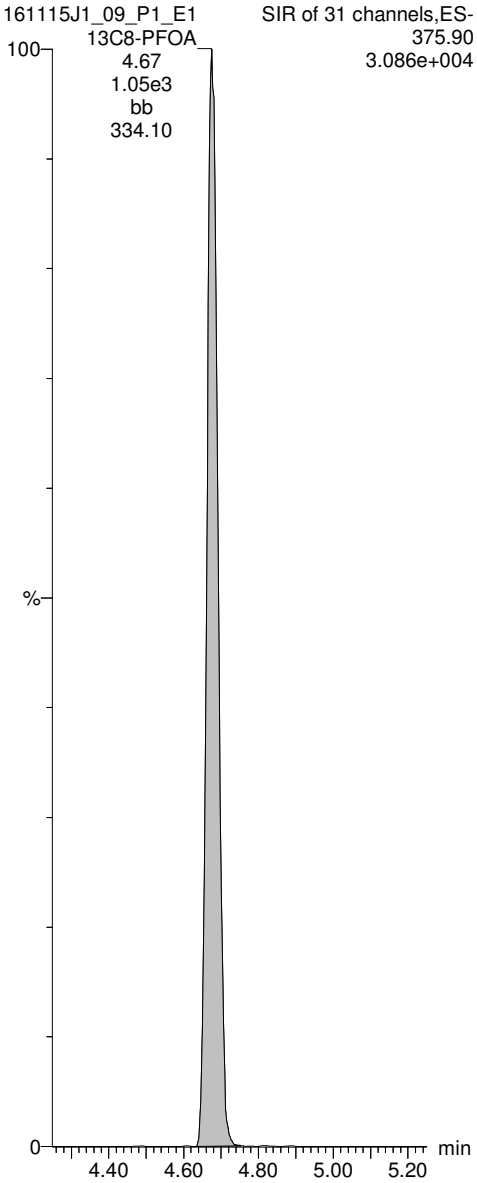
13C5-PFHxA



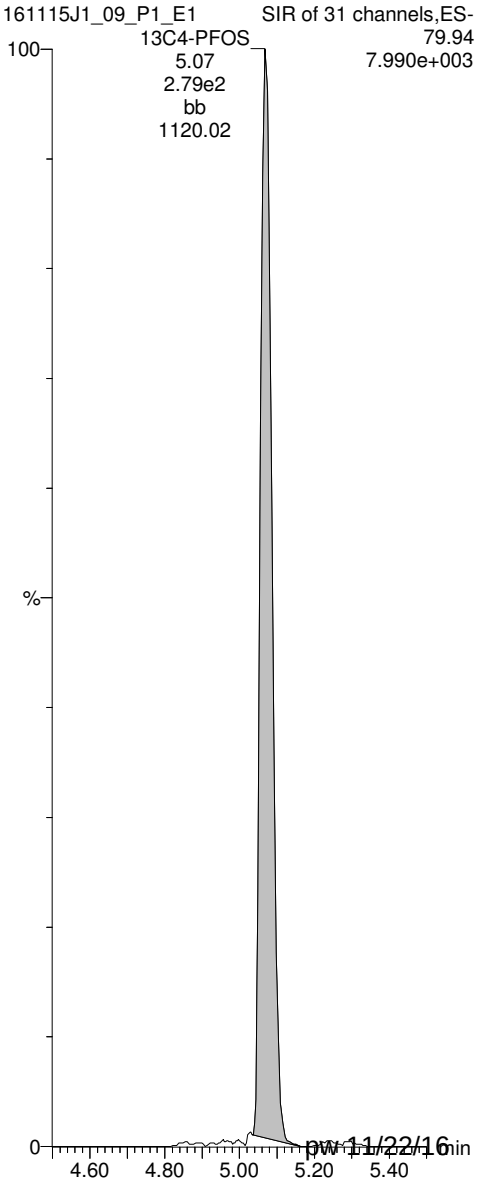
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/22/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 15:38:01 Pacific Standard Time
Printed: Wednesday, November 23, 2016 15:39:05 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	8	PFOA	368.90	2.037e5	1.029e3		0.125	4.68	14.9	
2	20	13C2-PFOA	369.90	1.029e3	1.049e3	0.663	0.125	4.68	0.148	148
3	28	13C8-PFOA	375.90	1.049e3	1.049e3	1.000	0.125	4.68	0.100	100
4	34	Total PFOA	368.90		1.029e3		0.125		19.5	

Target = ug/L

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 15:38:01 Pacific Standard Time
Printed: Wednesday, November 23, 2016 15:39:05 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.41	8510.781	799.064	
2	32	Total PFBS	79.90	3.28	178.569	799.064	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	106502.211	118.388	27.8
2	33	Total PFHxS	79.91	4.31	31295.049	118.388	8.1
3	33	Total PFHxS	79.91	4.20	259.135	118.388	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	203655.344	1029.110	14.9
2	34	Total PFOA	368.90	4.58	66006.125	1029.110	4.6

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.07	74150.617	245.342	23.4
2	35	Total PFOS	79.92	4.98	18434.328	245.342	5.2
3	35	Total PFOS	79.92	4.96	36797.098	245.342	11.2
4	35	Total PFOS	79.92	4.86	5289.892	245.342	0.9

Vista Analytical Laboratory Q1

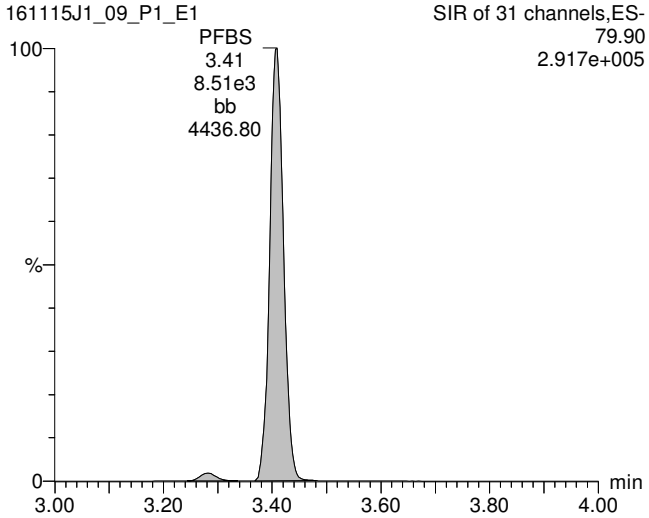
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 15:38:01 Pacific Standard Time
Printed: Wednesday, November 23, 2016 15:39:05 Pacific Standard Time

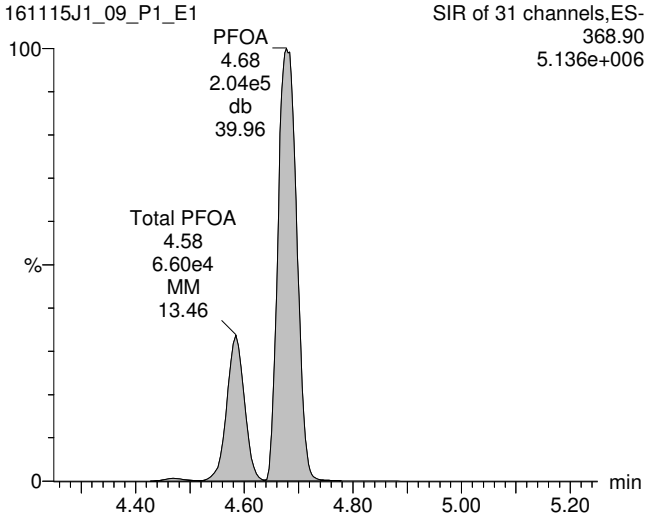
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25, Instrument: , Lab: ©PE-SCIEX, User: sciex

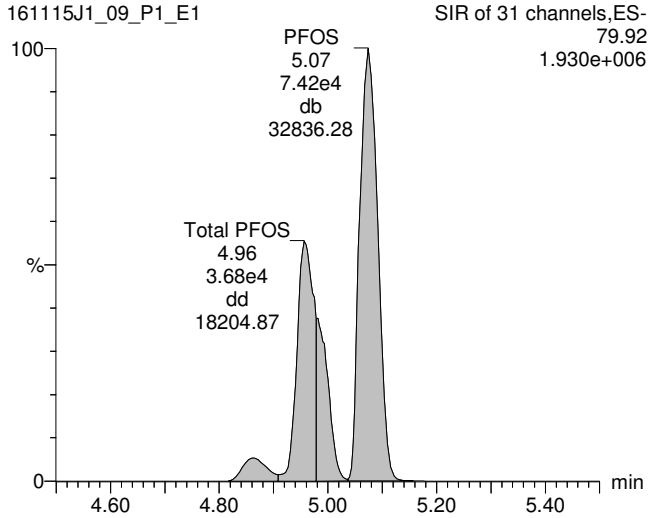
Total PFBS



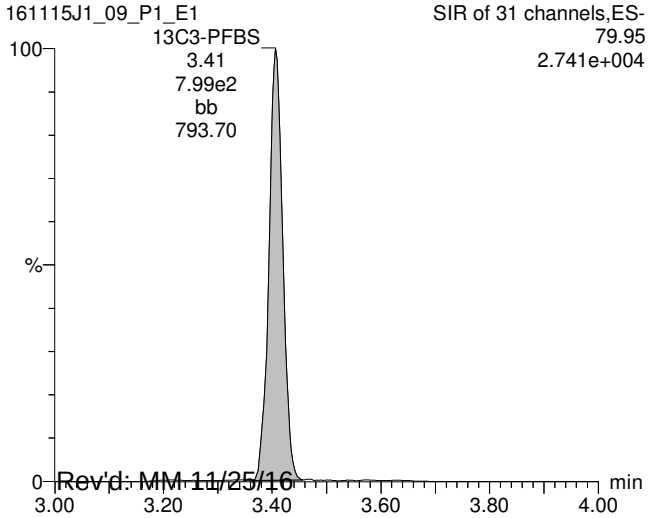
Total PFOA



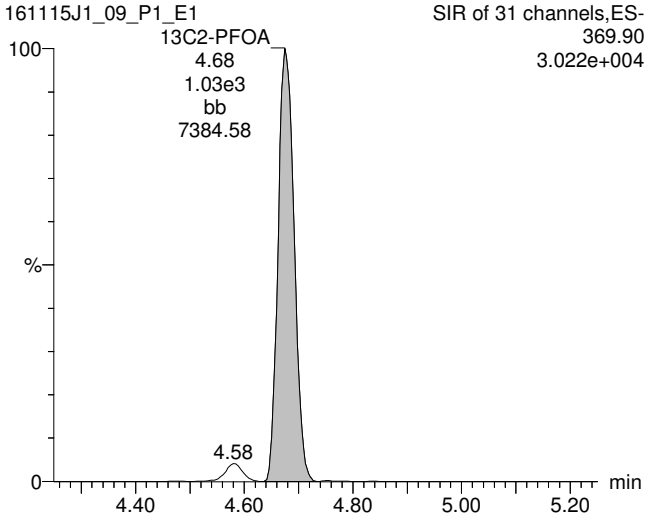
Total PFOS



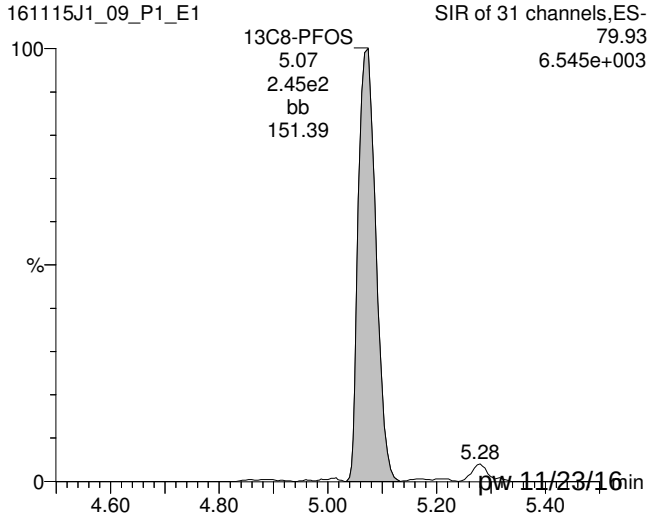
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

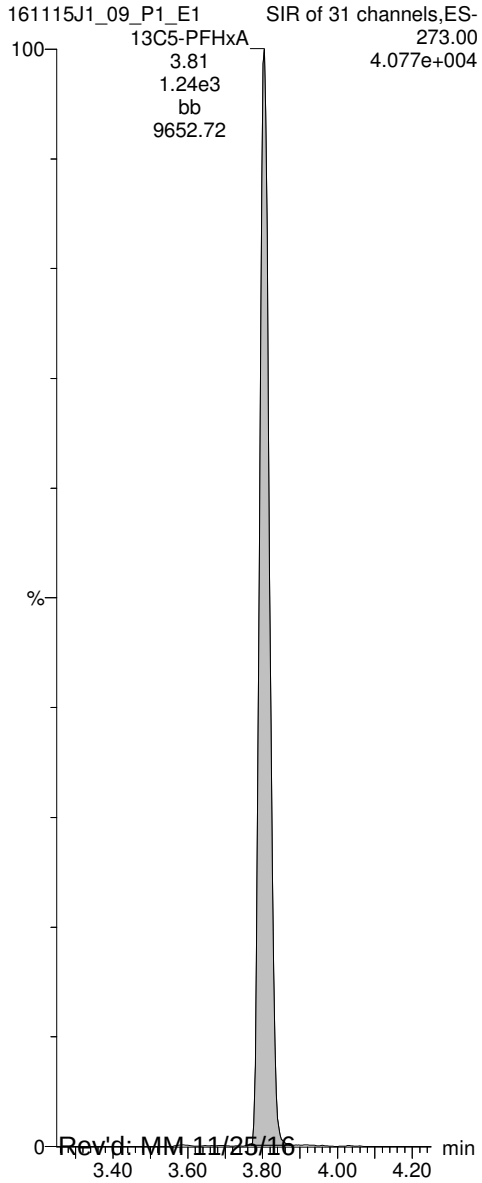
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_09_ugLTarget.qld

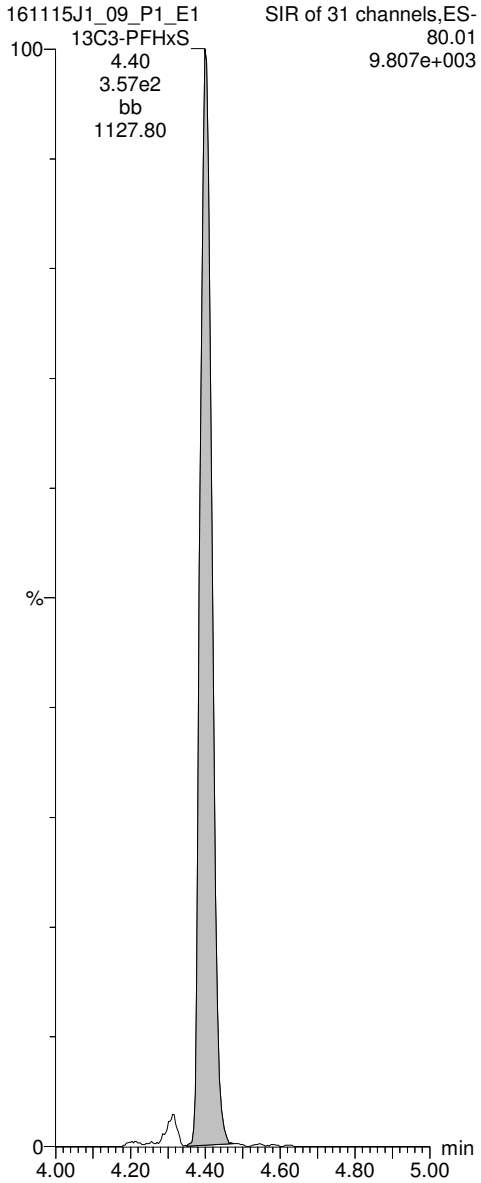
Last Altered: Wednesday, November 23, 2016 15:38:01 Pacific Standard Time
Printed: Wednesday, November 23, 2016 15:39:05 Pacific Standard Time

ID: 1601391-01@40x, Description: DUP06_161031, Name: 161115J1_09.wiff, Date: 15-Nov-2016, Time: 17:20:25, Instrument: , Lab: ©PE-SCIEX, User: sciex

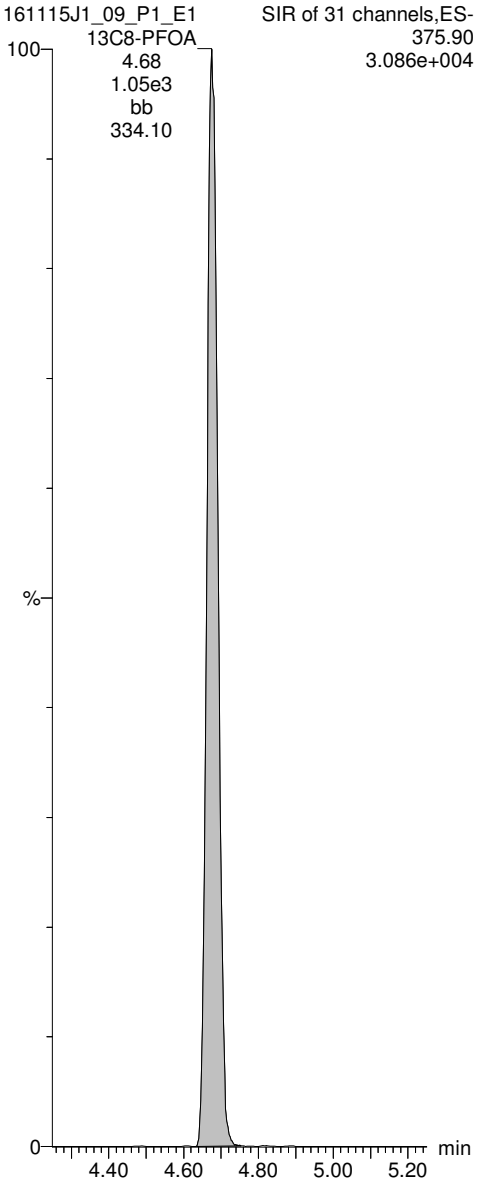
13C5-PFHxA



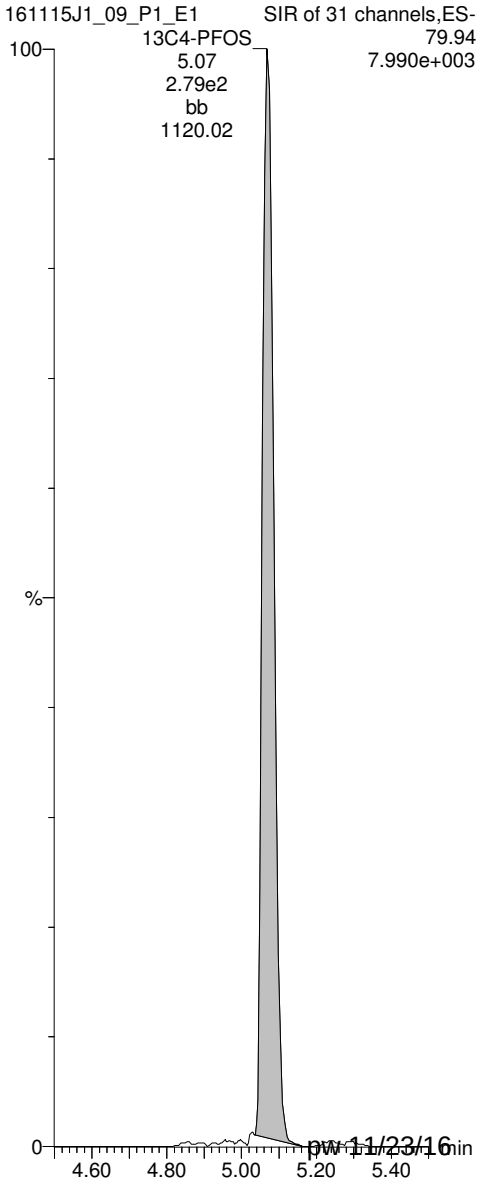
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - 161115J1_09_ugLTarget.qld

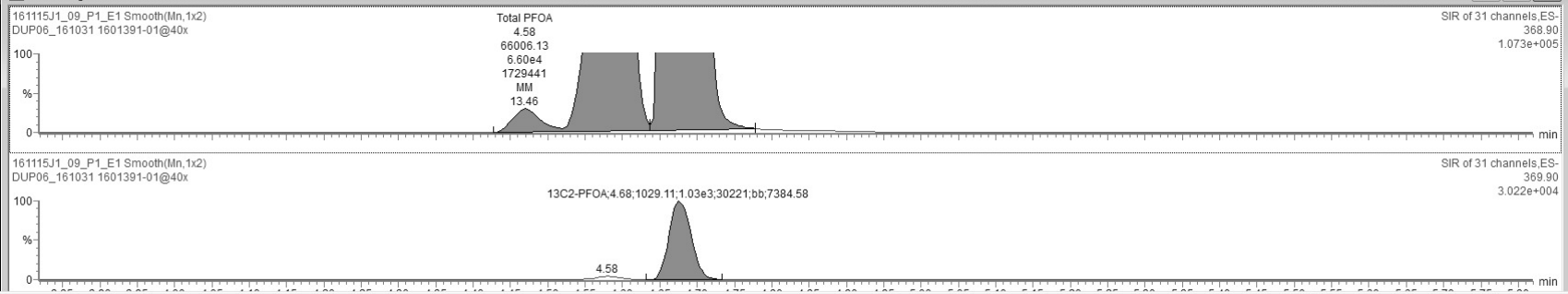
File Edit View Display Processing Window Help

161115J1_09_P1_E1 - 1601391-01@40x - DUP06_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
1	PFBA	0.61954643	0.0000...			1.106e4		1.92	1	13			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
2	PFPeA	1.5659578	0.0000...			2.557e4		3.12	2	14			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
3	PFBS					8.511e3		3.41	3	15			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
4	PFHxA	9.5180799	0.0000...			1.161e5		3.81	4	16			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
5	PFHpA	2.5229271	0.0000...			2.483e4		4.29	5	17			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
6	PFHxS	27.802443	0.0000...			1.065e5		4.40	6	18			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
7	6:2 FTS					2.569e2		4.63	7	19			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
8	PFOA	14.858894	0.523			2.037e5		4.68	8	20			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
9	PFNA	0.10256835	0.0000...			9.937e2		5.01	9	21			0.999	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
10	PFOS	23.385363	0.0000...			7.415e4		5.07	10	22			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	YES
11	PFDA	0.26246370	0.197			1.588e2		5.30	11	23			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
12	8:2 FTS	0.68465903	0.577			8.360e1		5.28	12	24			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
13	13C3-PFBA	0.10012799	0.000543	100.1		1.160e3	0.894	1.92	13	25			1.002	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
14	13C3-PFPeA	0.11655550	0.000500	116.5		1.362e3	0.945	3.11	14	26			0.818	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
15	13C3-PFBS	0.12180915	0.000399	121.7		7.991e2	0.531	3.41	15	26			0.895	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
16	13C2-PFHxA	0.0480250...	0.0000...	120.0		5.368e2	0.905	3.81	16	26			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
17	13C4-PFHpA	0.10691702	0.0000...	106.8		1.017e3	0.770	4.29	17	26			1.126	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
18	18O2-PFHxS	0.12032520	0.000265	120.2		1.184e2	0.276	4.40	18	27			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
19	13C2-6:2 FTS	0.13201966	0.0000...	131.9		3.028e2	0.219	4.63	19	28			0.990	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
20	13C2-PFOA	0.14791749	0.0000...	147.8		1.029e3	0.663	4.68	20	28			1.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
21	13C5-PFNA	0.0988500...	0.0000...	98.8		7.257e2	1.019	5.01	21	30			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
22	13C8-PFOS	0.0954525...	0.00148	95.4		2.453e2	0.921	5.07	22	29			1.001	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
23	13C2-PFDA	0.0730948...	0.0000...	73.0		2.363e2	0.887	5.29	23	31			0.999	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
24	13C2-8:2 FTS	0.0701747...	0.0000...	70.1		6.948e1	0.272	5.28	24	31			0.996	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO
25	13C4-PFBA	0.10006404	0.000257	100.0		1.297e3	1.000	1.91	25	25			0.000	15-Nov-16	17:20:25		1601391-01...	DUP06_161031	0.0	0.125	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.68	5.133e6		2.037e5				2.037e5	14.859	
2	Total PFOA	4.58	1.729e6		6.601e4				6.601e4	4.6094	

Chromatogram



Ready 161115J1_09_P1_E1 NUM

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-4.qld

Last Altered: Wednesday, November 30, 2016 11:16:53 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:21:53 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-02 EB-M14-09D_161031 0.13063, Description: EB-M14-09D_161031, Name: 161130G1_4, Date: 30-Nov-2016, Time: 08:48:05

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		6.255e3		0.131			
2	8	PFOA	413 > 368.7	2.701e2	2.740e4		0.131	4.34	0.268	
3	10	PFOS	499 >79.9		8.063e3		0.131			
4	16	13C3-PFBS	302.0 > 98.8	6.255e3	2.288e4	0.302	0.131	3.06	86.6	90.5
5	17	13C2-PFHxA	315 > 269.8	5.877e3	2.288e4	0.620	0.131	3.44	39.7	104
6	18	13C4-PFHpA	367.2 > 321.8	1.607e4	1.283e4	1.139	0.131	3.94	105	110
7	19	18O2-PFHxS	403 > 102.6	6.481e3	1.283e4	0.449	0.131	4.06	108	112
8	20	13C2-6:2 FTS	429.1 > 408.9	4.535e3	5.184e3	1.073	0.131	4.30	78.0	81.5
9	21	13C2-PFOA	414.9 > 369.7	2.740e4	9.205e3	2.262	0.131	4.34	126	132
10	22	13C8-PFOS	507.0 > 79.9	8.063e3	6.884e3	0.944	0.131	4.74	119	124
11	28	13C5-PFHxA	318.0 > 272.9	2.288e4	2.288e4	1.000	0.131	3.44	95.7	100
12	29	13C3-PFHxS	401.9 > 79.9	1.283e4	1.283e4	1.000	0.131	4.06	95.7	100
13	30	13C8-PFOA	421.3 > 376	9.205e3	9.205e3	1.000	0.131	4.34	95.7	100
14	31	13C4-PFOS	503.0 > 79.9	6.884e3	6.884e3	1.000	0.131	4.74	95.7	100
15	32	13C9-PFNA	472.2 > 426.9	1.161e4	1.161e4	1.000	0.131	4.68	95.7	100
16	33	13C6-PFDA	519.1 > 473.7	1.096e4	1.096e4	1.000	0.131	4.98	95.7	100
17	34	Total PFBS	299 > 79.7		6.481e3		0.131			
18	36	Total PFOA	413 > 368.7		2.740e4		0.131		0.268	
19	37	Total PFOS	499 > 79.9		8.063e3		0.131			

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

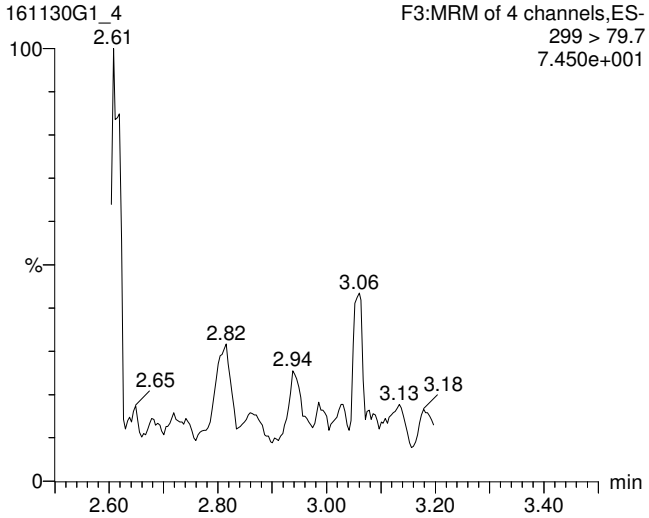
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-4.qld

Last Altered: Wednesday, November 30, 2016 11:16:53 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:21:53 Pacific Standard Time

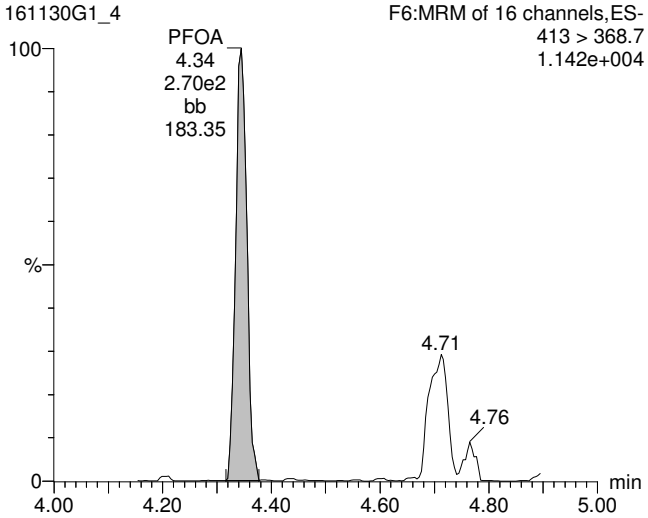
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-02 EB-M14-09D_161031 0.13063, Description: EB-M14-09D_161031, Name: 161130G1_4, Date: 30-Nov-2016, Time: 08:48:05, Instrument: , Lab: , User:

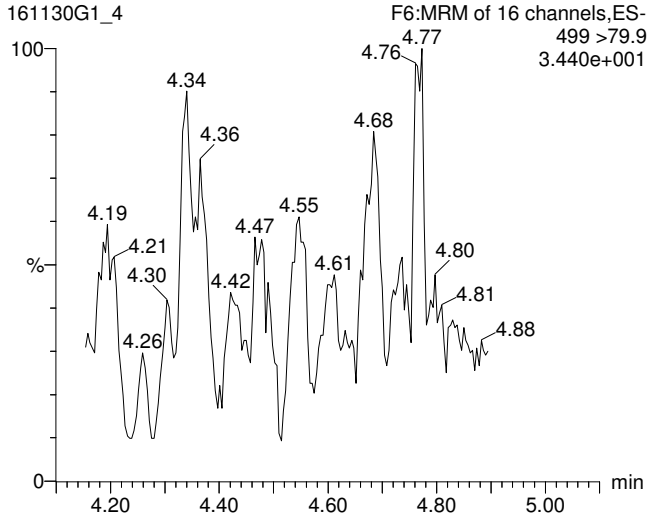
Total PFBS



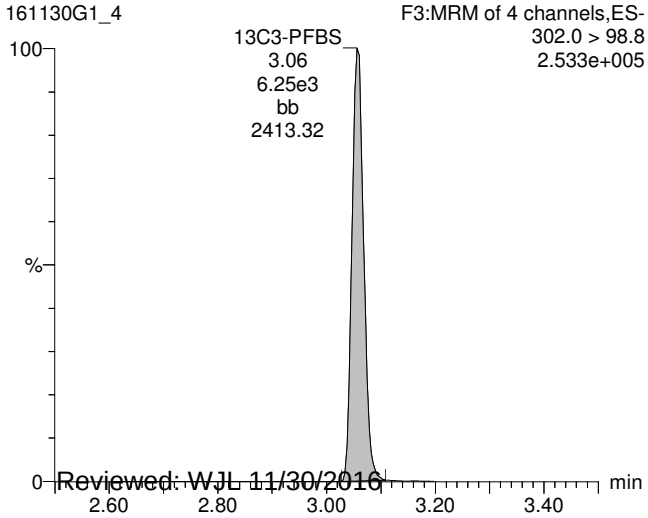
Total PFOA



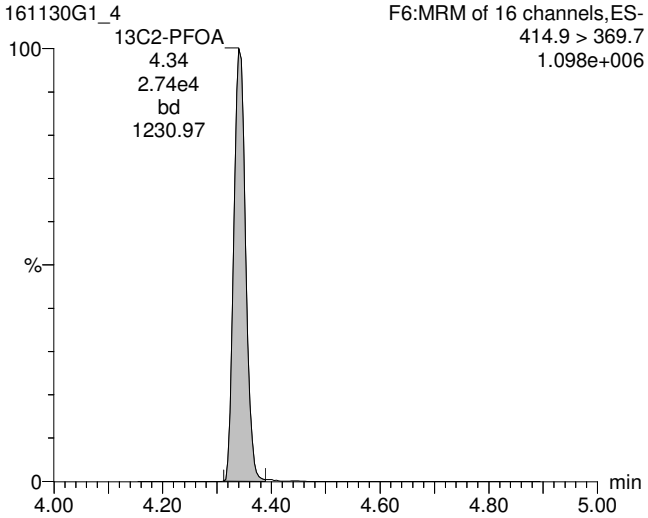
Total PFOS



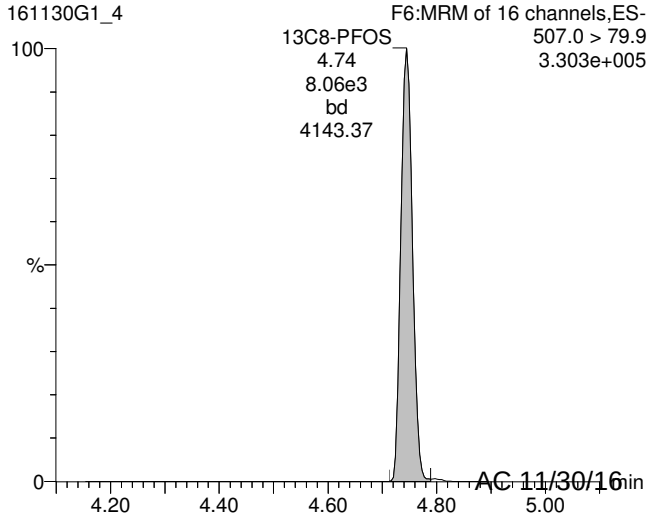
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

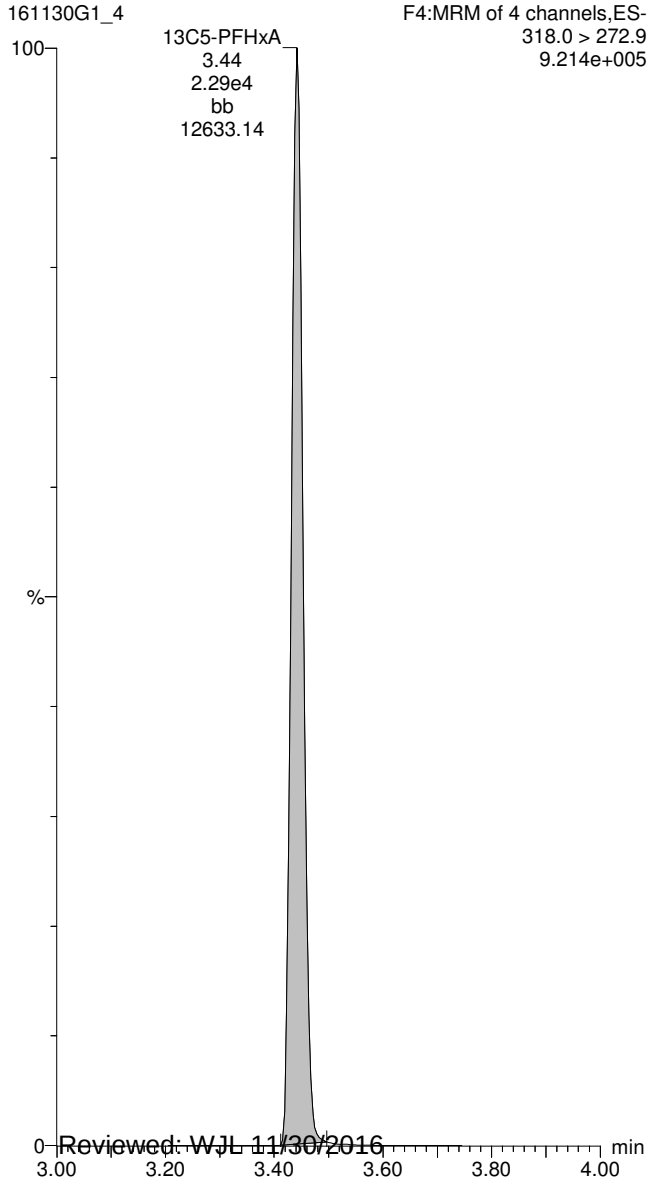
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-4.qld

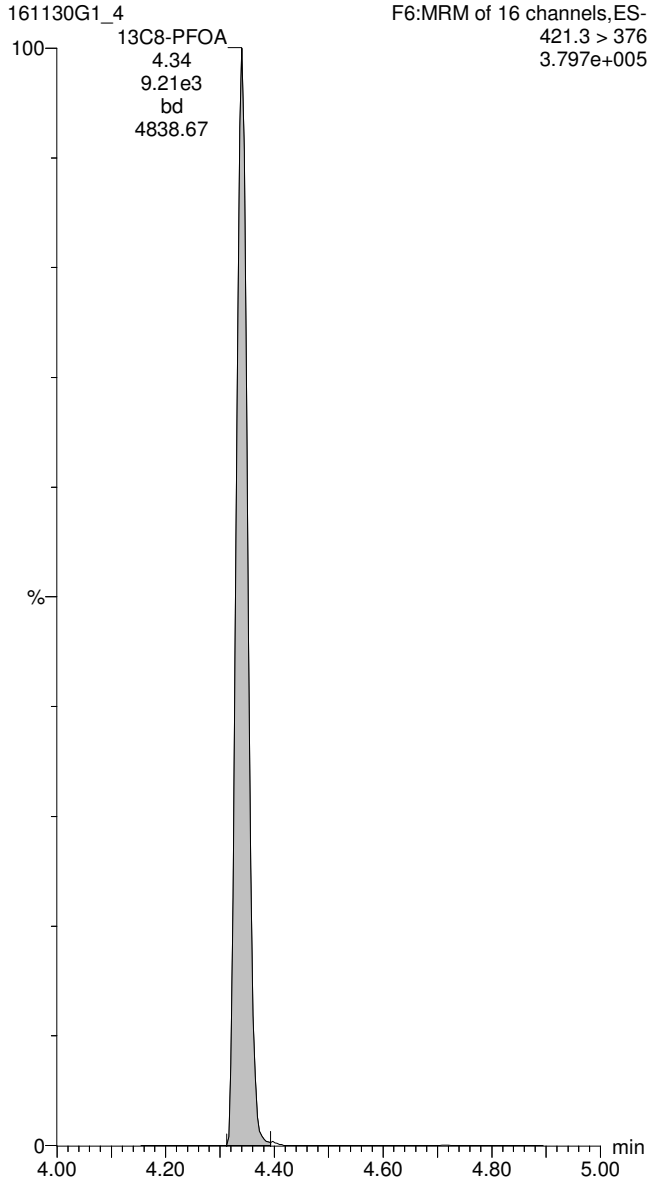
Last Altered: Wednesday, November 30, 2016 11:16:53 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:21:53 Pacific Standard Time

ID: 1601391-02 EB-M14-09D_161031 0.13063, Description: EB-M14-09D_161031, Name: 161130G1_4, Date: 30-Nov-2016, Time: 08:48:05, Instrument: , Lab: , User:

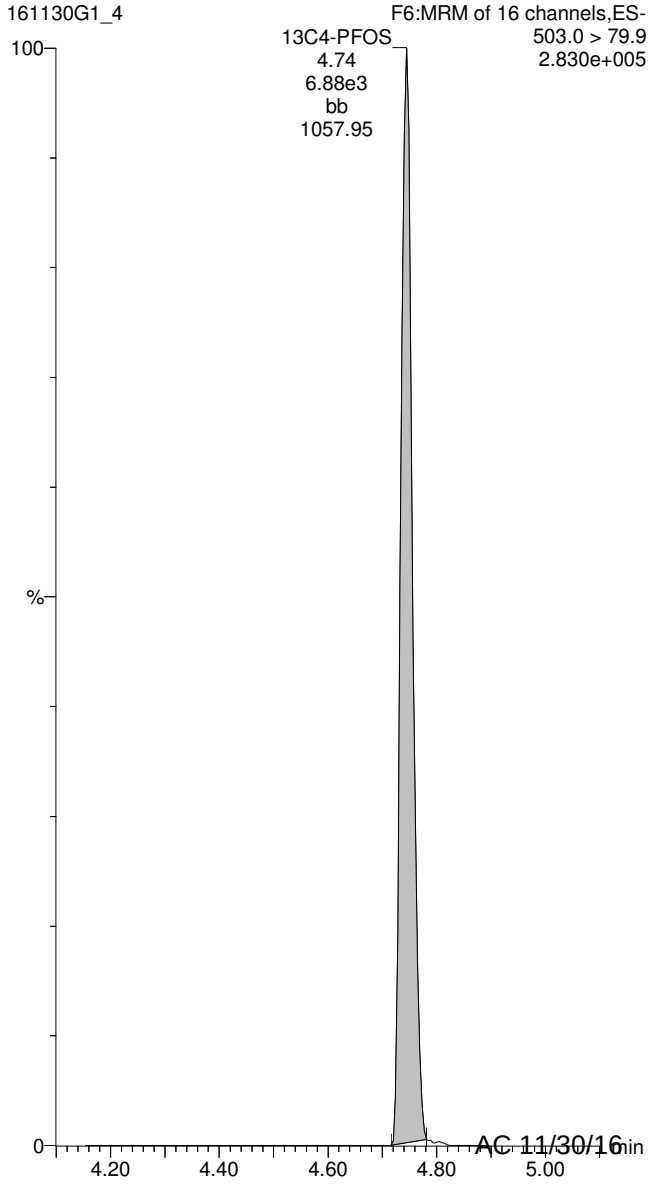
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-5.qld

Last Altered: Wednesday, November 30, 2016 11:23:55 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:24:19 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-03 EB-M14-09S_161031 0.13015, Description: EB-M14-09S_161031, Name: 161130G1_5, Date: 30-Nov-2016, Time: 09:00:50

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	1.976e0	6.833e3		0.130	3.06	0.640	
2	8	PFOA	413 > 368.7	1.597e2	2.534e4		0.130	4.34		
3	10	PFOS	499 >79.9	8.980e-1	8.121e3		0.130	4.73	1.54	
4	16	13C3-PFBS	302.0 > 98.8	6.833e3	2.250e4	0.302	0.130	3.07	96.6	101
5	17	13C2-PFHxA	315 > 269.8	5.532e3	2.250e4	0.620	0.130	3.44	38.1	99.2
6	18	13C4-PFHpA	367.2 > 321.8	1.612e4	1.262e4	1.139	0.130	3.94	108	112
7	19	18O2-PFHxS	403 > 102.6	6.265e3	1.262e4	0.449	0.130	4.06	106	110
8	20	13C2-6:2 FTS	429.1 > 408.9	4.043e3	5.460e3	1.073	0.130	4.29	66.3	69.0
9	21	13C2-PFOA	414.9 > 369.7	2.534e4	9.660e3	2.262	0.130	4.34	111	116
10	22	13C8-PFOS	507.0 > 79.9	8.121e3	6.784e3	0.944	0.130	4.74	122	127
11	28	13C5-PFHxA	318.0 > 272.9	2.250e4	2.250e4	1.000	0.130	3.44	96.0	100
12	29	13C3-PFHxS	401.9 > 79.9	1.262e4	1.262e4	1.000	0.130	4.06	96.0	100
13	30	13C8-PFOA	421.3 > 376	9.660e3	9.660e3	1.000	0.130	4.34	96.0	100
14	31	13C4-PFOS	503.0 > 79.9	6.784e3	6.784e3	1.000	0.130	4.74	96.0	100
15	32	13C9-PFNA	472.2 > 426.9	1.110e4	1.110e4	1.000	0.130	4.68	96.0	100
16	33	13C6-PFDA	519.1 > 473.7	1.093e4	1.093e4	1.000	0.130	4.98	96.0	100
17	34	Total PFBS	299 > 79.7		6.265e3		0.130		0.640	
18	36	Total PFOA	413 > 368.7		2.534e4		0.130			
19	37	Total PFOS	499 > 79.9		8.121e3		0.130		3.12	

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

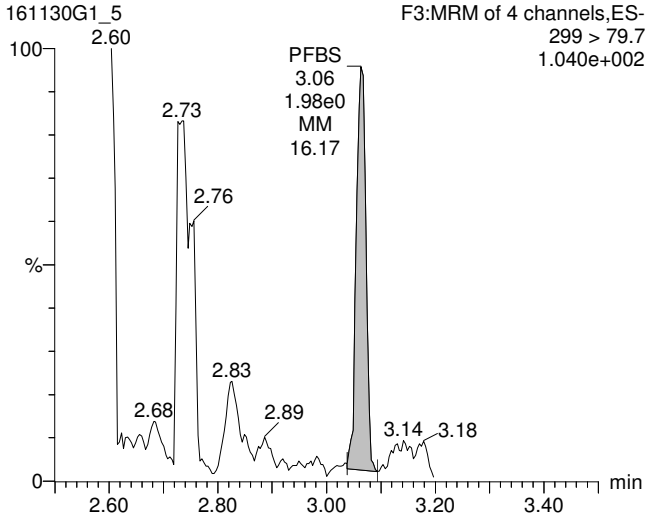
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-5.qld

Last Altered: Wednesday, November 30, 2016 11:23:55 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:24:19 Pacific Standard Time

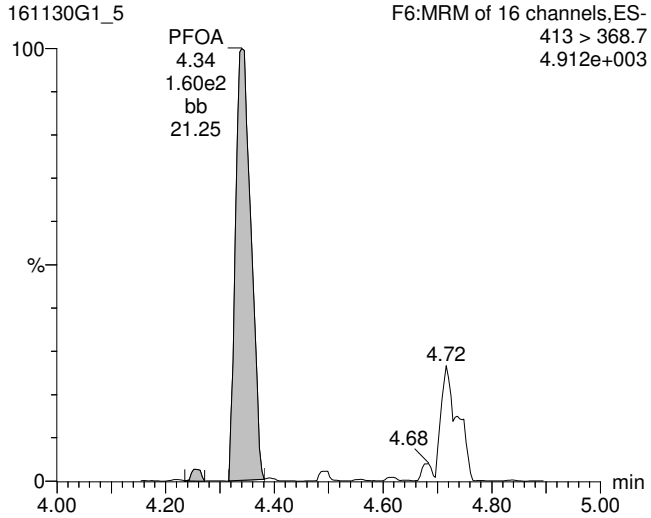
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-03 EB-M14-09S_161031 0.13015, Description: EB-M14-09S_161031, Name: 161130G1_5, Date: 30-Nov-2016, Time: 09:00:50, Instrument: , Lab: , User:

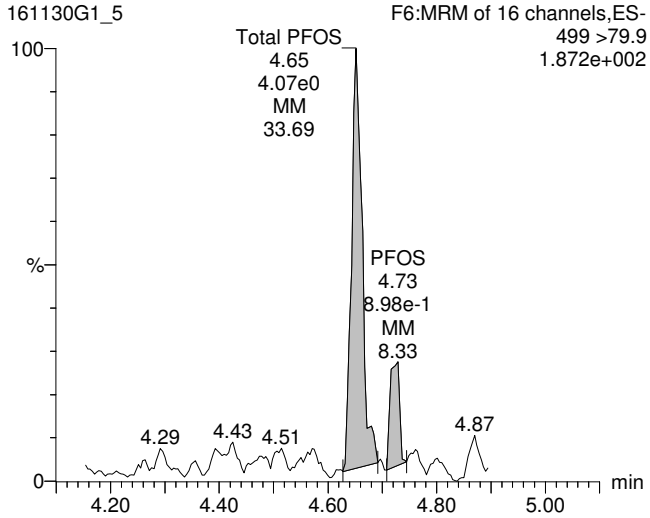
Total PFBS



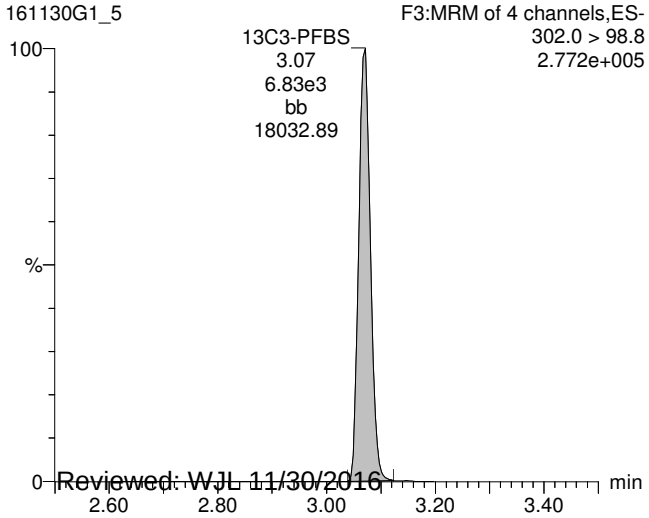
Total PFOA



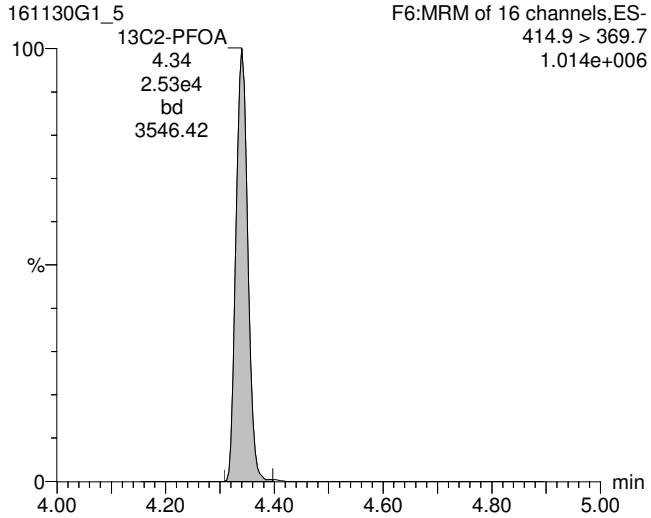
Total PFOS



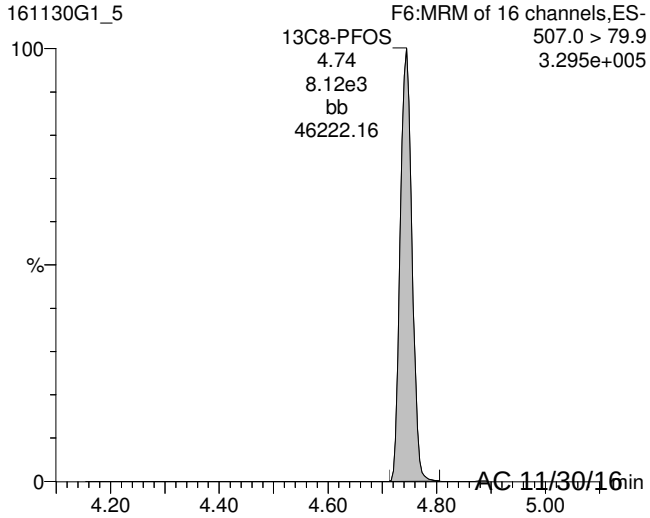
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

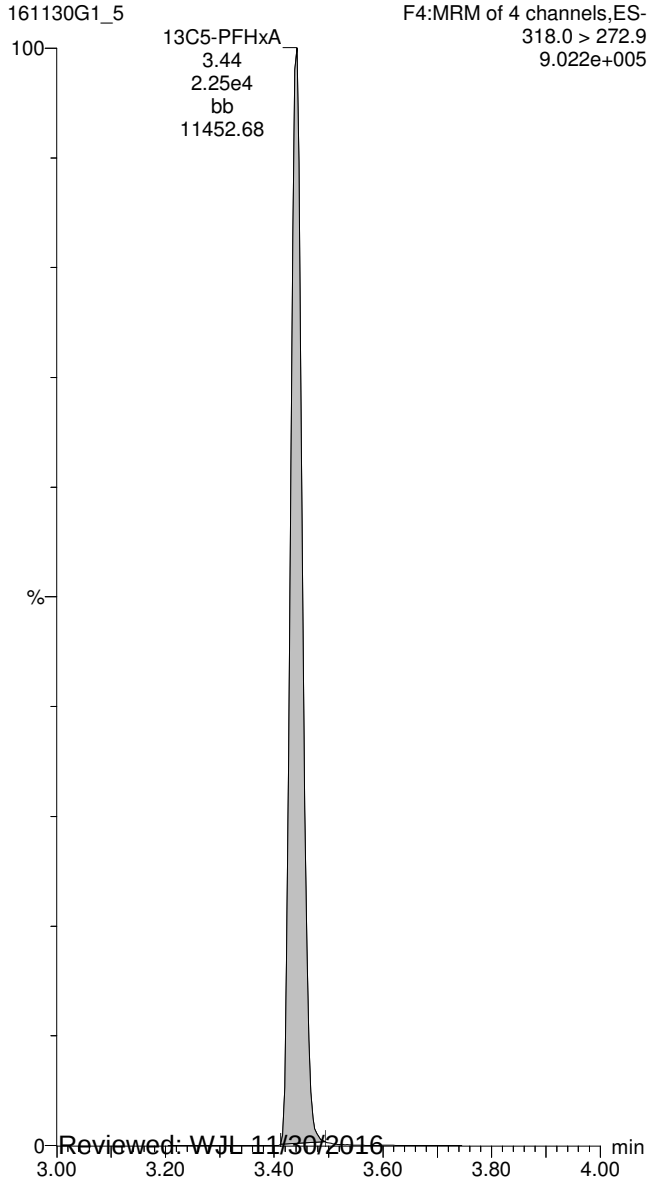
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-5.qld

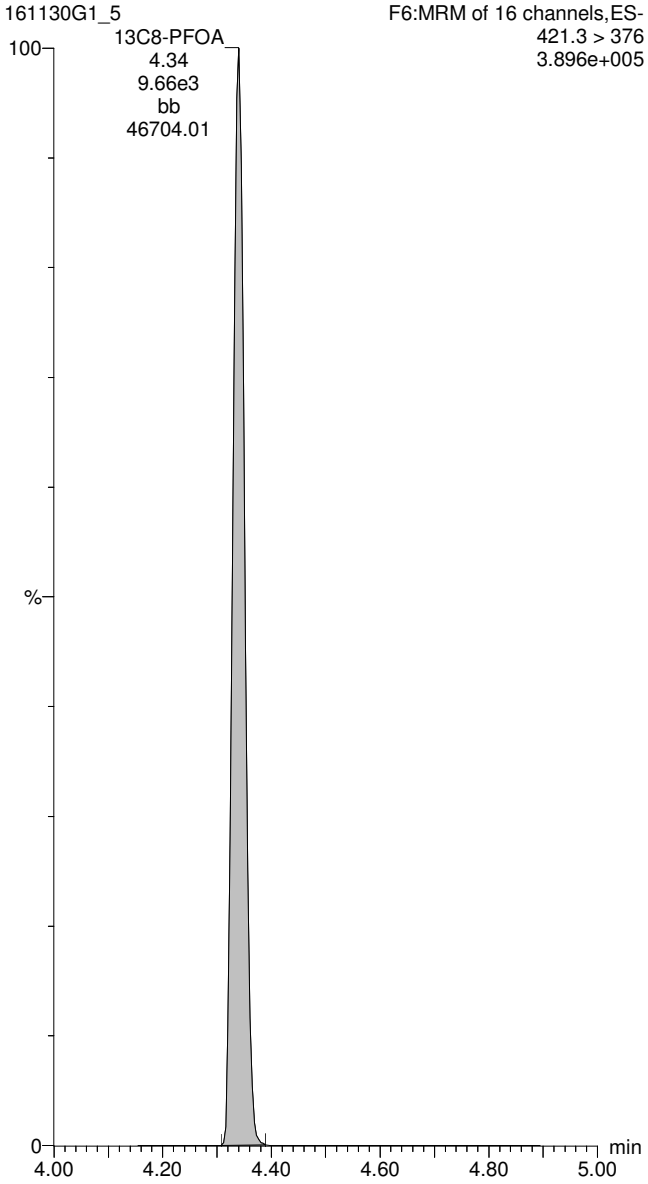
Last Altered: Wednesday, November 30, 2016 11:23:55 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:24:19 Pacific Standard Time

ID: 1601391-03 EB-M14-09S_161031 0.13015, Description: EB-M14-09S_161031, Name: 161130G1_5, Date: 30-Nov-2016, Time: 09:00:50, Instrument: , Lab: , User:

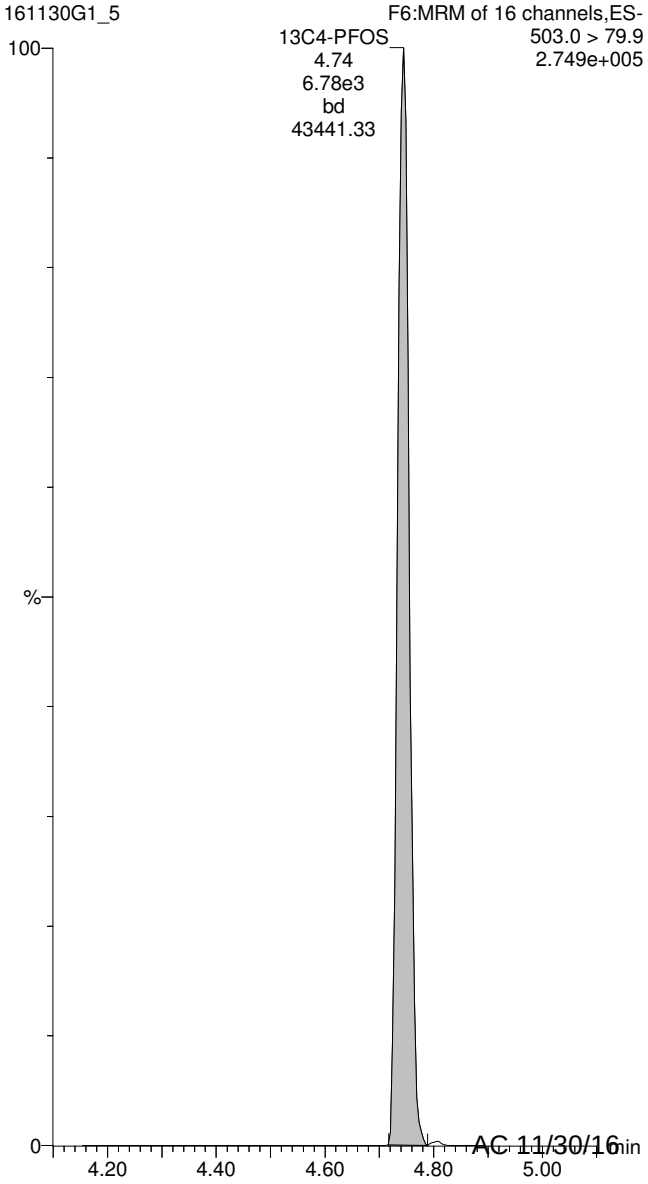
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-6.qld

Last Altered: Wednesday, November 30, 2016 11:25:06 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:25:38 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-04 EB-M14-14_161031 0.13338, Description: EB-M14-14_161031, Name: 161130G1_6, Date: 30-Nov-2016, Time: 09:13:34

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	1.607e0	5.595e3		0.133	3.06	0.624	
2	8	PFOA	413 > 368.7	2.566e2	2.183e4		0.133	4.34	0.460	
3	10	PFOS	499 >79.9		7.134e3		0.133			
4	16	13C3-PFBS	302.0 > 98.8	5.595e3	2.020e4	0.302	0.133	3.07	85.9	91.7
5	17	13C2-PFHxA	315 > 269.8	4.809e3	2.020e4	0.620	0.133	3.44	36.0	96.1
6	18	13C4-PFHpA	367.2 > 321.8	1.360e4	1.193e4	1.139	0.133	3.94	93.9	100
7	19	18O2-PFHxS	403 > 102.6	5.427e3	1.193e4	0.449	0.133	4.06	94.9	101
8	20	13C2-6:2 FTS	429.1 > 408.9	2.643e3	5.078e3	1.073	0.133	4.29	45.5	48.5
9	21	13C2-PFOA	414.9 > 369.7	2.183e4	8.583e3	2.262	0.133	4.34	105	112
10	22	13C8-PFOS	507.0 > 79.9	7.134e3	6.287e3	0.944	0.133	4.74	113	120
11	28	13C5-PFHxA	318.0 > 272.9	2.020e4	2.020e4	1.000	0.133	3.44	93.7	100
12	29	13C3-PFHxS	401.9 > 79.9	1.193e4	1.193e4	1.000	0.133	4.06	93.7	100
13	30	13C8-PFOA	421.3 > 376	8.583e3	8.583e3	1.000	0.133	4.34	93.7	100
14	31	13C4-PFOS	503.0 > 79.9	6.287e3	6.287e3	1.000	0.133	4.74	93.7	100
15	32	13C9-PFNA	472.2 > 426.9	1.133e4	1.133e4	1.000	0.133	4.68	93.7	100
16	33	13C6-PFDA	519.1 > 473.7	1.010e4	1.010e4	1.000	0.133	4.98	93.7	100
17	34	Total PFBS	299 > 79.7		5.427e3		0.133		0.624	
18	36	Total PFOA	413 > 368.7		2.183e4		0.133		0.460	
19	37	Total PFOS	499 > 79.9		7.134e3		0.133			

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

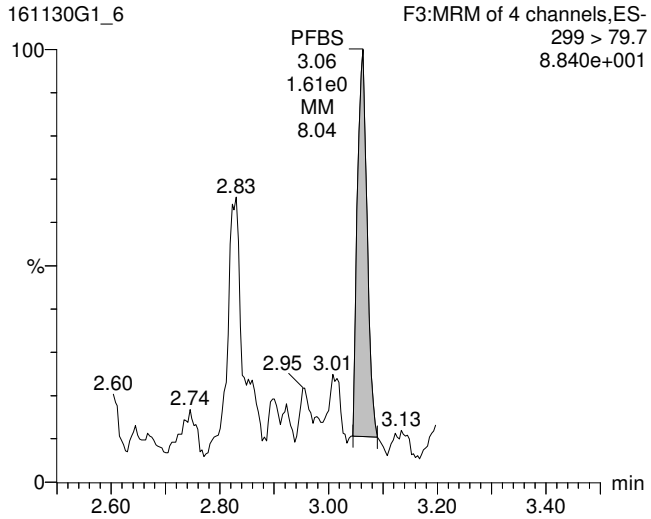
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-6.qld

Last Altered: Wednesday, November 30, 2016 11:25:06 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:25:38 Pacific Standard Time

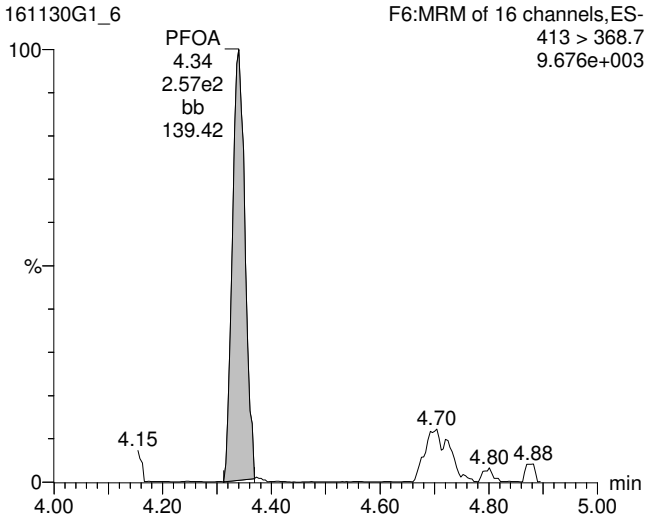
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-04 EB-M14-14_161031 0.13338, Description: EB-M14-14_161031, Name: 161130G1_6, Date: 30-Nov-2016, Time: 09:13:34, Instrument: , Lab: , User:

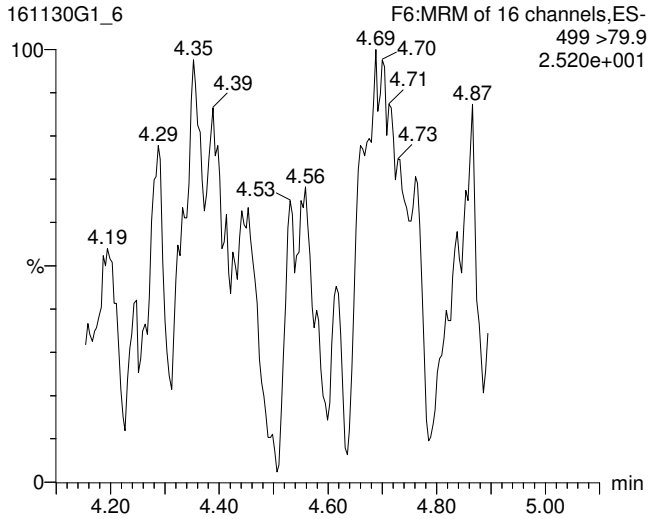
Total PFBS



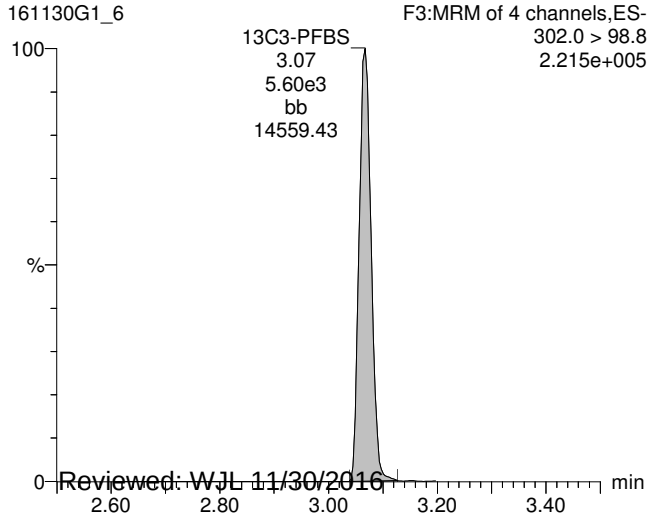
Total PFOA



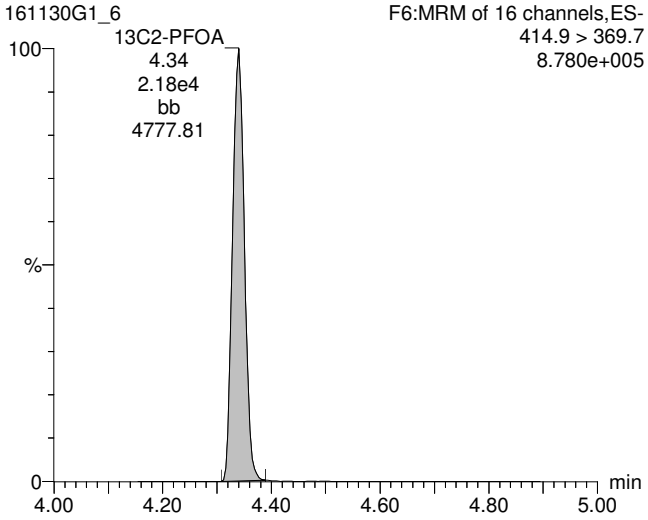
Total PFOS



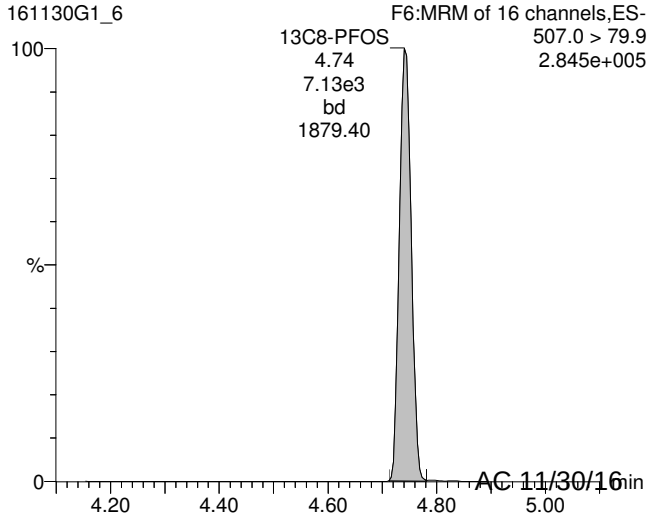
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

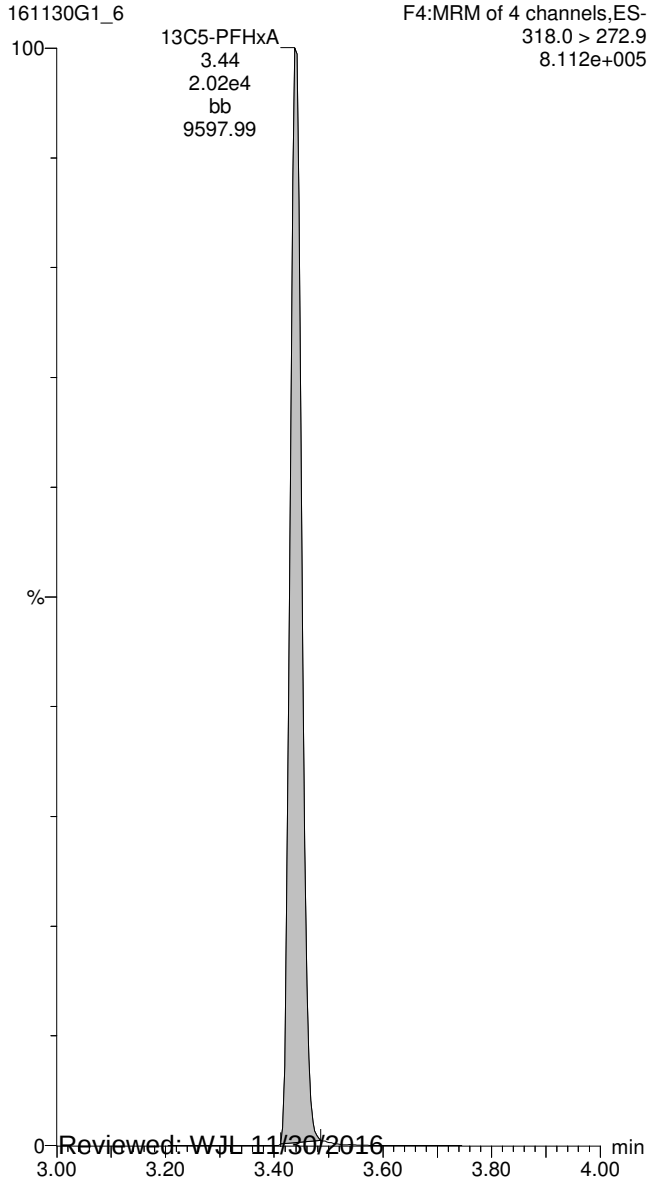
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-6.qld

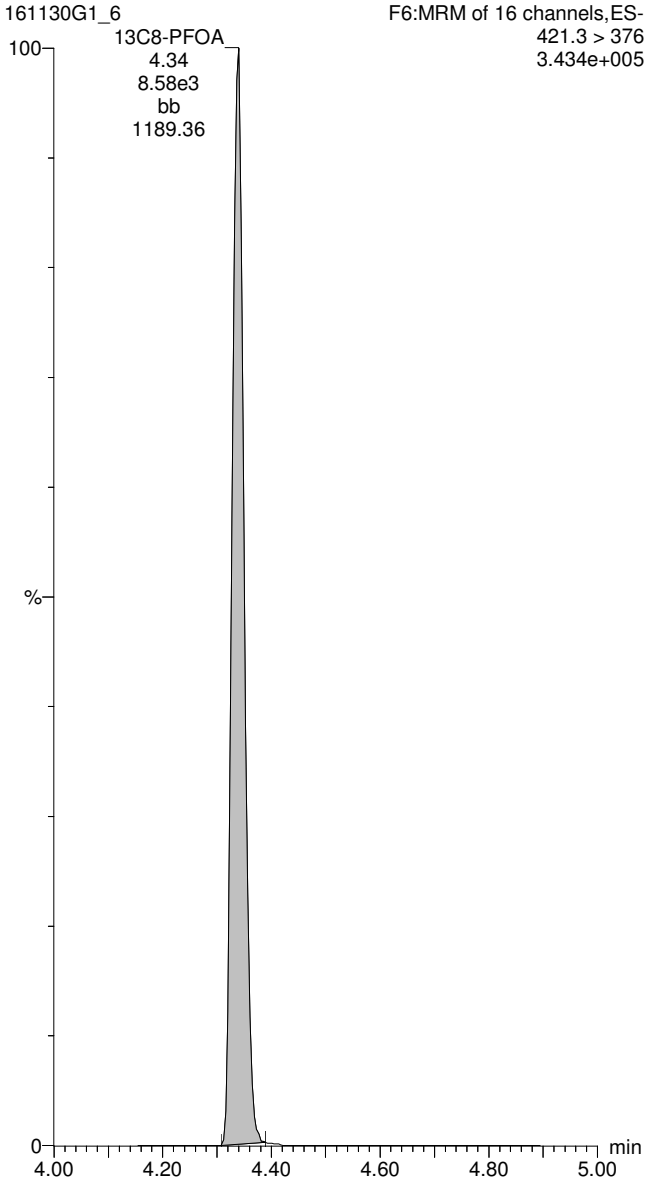
Last Altered: Wednesday, November 30, 2016 11:25:06 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:25:38 Pacific Standard Time

ID: 1601391-04 EB-M14-14_161031 0.13338, Description: EB-M14-14_161031, Name: 161130G1_6, Date: 30-Nov-2016, Time: 09:13:34, Instrument: , Lab: , User:

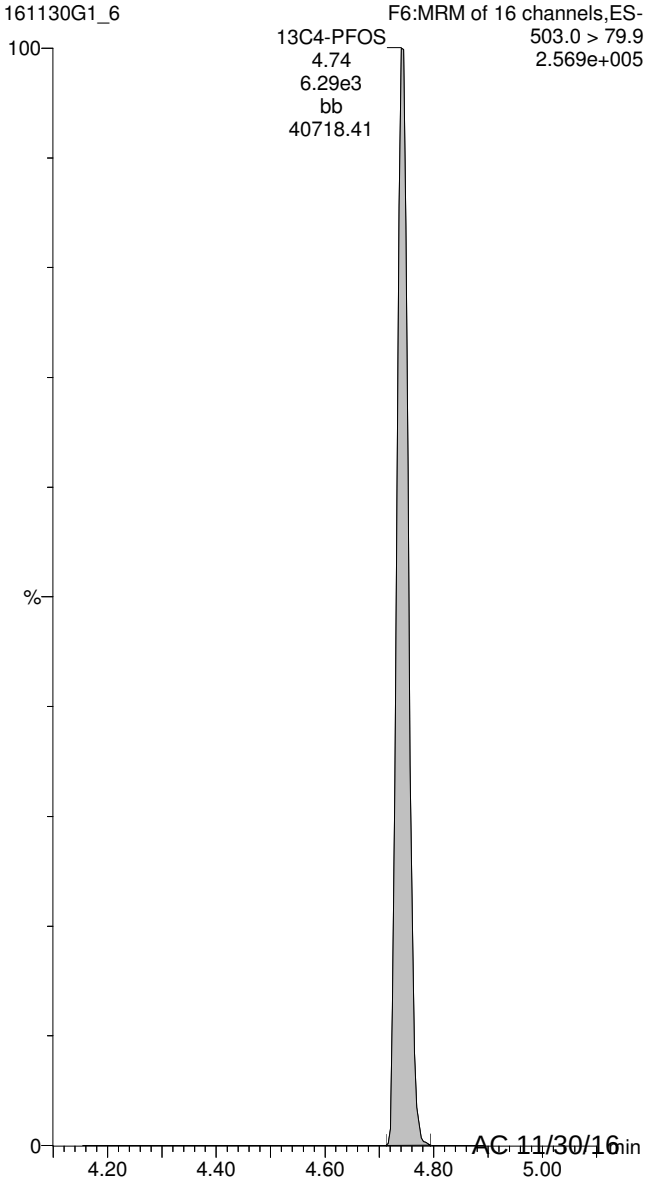
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-7.qld

Last Altered: Wednesday, November 30, 2016 11:27:36 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:27:47 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-05 FB-M14-09D_161031 0.13094, Description: FB-M14-09D_161031, Name: 161130G1_7, Date: 30-Nov-2016, Time: 09:26:22

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		6.572e3		0.131			
2	8	PFOA	413 > 368.7	3.208e2	2.498e4		0.131	4.34	0.584	
3	10	PFOS	499 >79.9		7.992e3		0.131			
4	16	13C3-PFBS	302.0 > 98.8	6.572e3	2.159e4	0.302	0.131	3.07	96.2	101
5	17	13C2-PFHxA	315 > 269.8	5.350e3	2.159e4	0.620	0.131	3.44	38.2	100
6	18	13C4-PFHpA	367.2 > 321.8	1.520e4	1.253e4	1.139	0.131	3.94	102	107
7	19	18O2-PFHxS	403 > 102.6	5.725e3	1.253e4	0.449	0.131	4.06	97.0	102
8	20	13C2-6:2 FTS	429.1 > 408.9	5.001e3	4.480e3	1.073	0.131	4.29	99.3	104
9	21	13C2-PFOA	414.9 > 369.7	2.498e4	9.082e3	2.262	0.131	4.34	116	122
10	22	13C8-PFOS	507.0 > 79.9	7.992e3	6.665e3	0.944	0.131	4.74	121	127
11	28	13C5-PFHxA	318.0 > 272.9	2.159e4	2.159e4	1.000	0.131	3.44	95.5	100
12	29	13C3-PFHxS	401.9 > 79.9	1.253e4	1.253e4	1.000	0.131	4.06	95.5	100
13	30	13C8-PFOA	421.3 > 376	9.082e3	9.082e3	1.000	0.131	4.34	95.5	100
14	31	13C4-PFOS	503.0 > 79.9	6.665e3	6.665e3	1.000	0.131	4.74	95.5	100
15	32	13C9-PFNA	472.2 > 426.9	1.118e4	1.118e4	1.000	0.131	4.68	95.5	100
16	33	13C6-PFDA	519.1 > 473.7	1.036e4	1.036e4	1.000	0.131	4.98	95.5	100
17	34	Total PFBS	299 > 79.7		5.725e3		0.131			
18	36	Total PFOA	413 > 368.7		2.498e4		0.131		0.584	
19	37	Total PFOS	499 > 79.9		7.992e3		0.131			

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

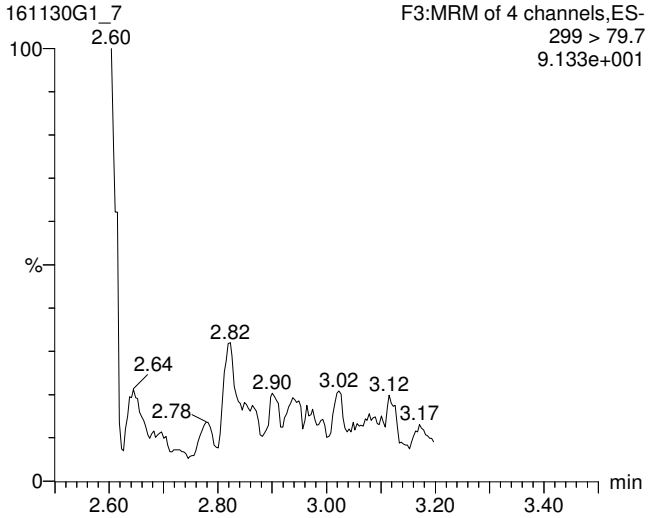
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-7.qld

Last Altered: Wednesday, November 30, 2016 11:27:36 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:27:47 Pacific Standard Time

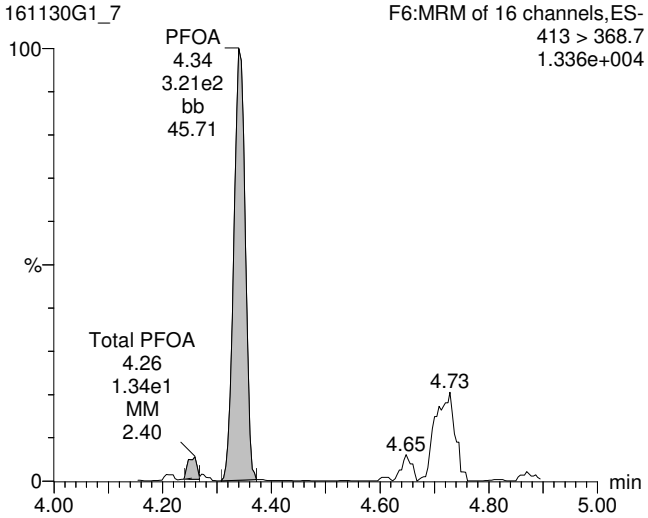
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-05 FB-M14-09D_161031 0.13094, Description: FB-M14-09D_161031, Name: 161130G1_7, Date: 30-Nov-2016, Time: 09:26:22, Instrument: , Lab: , User:

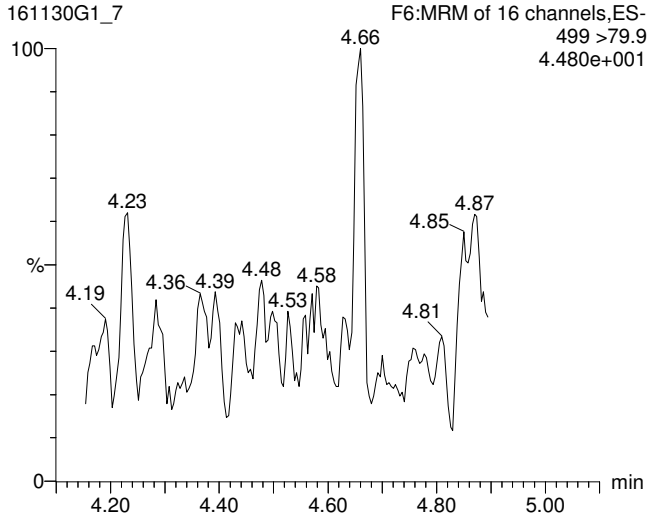
Total PFBS



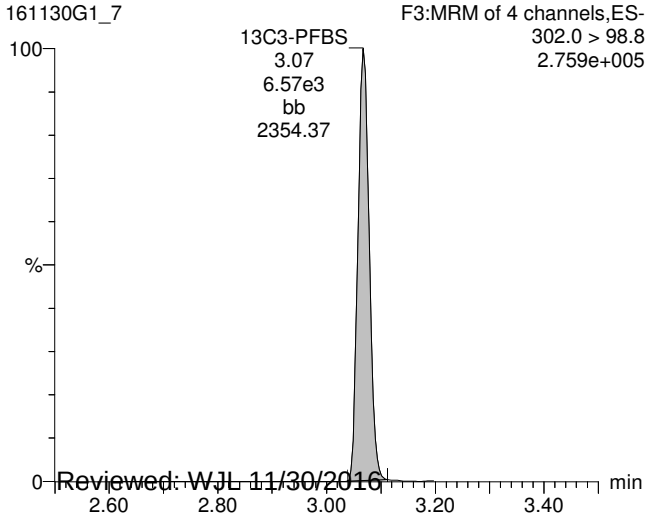
Total PFOA



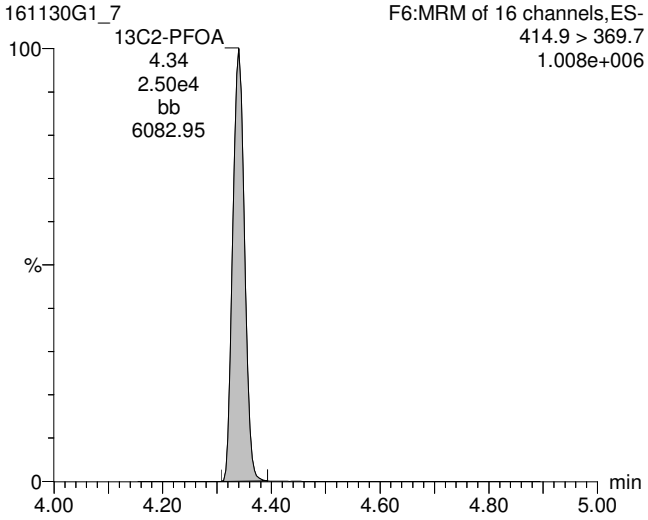
Total PFOS



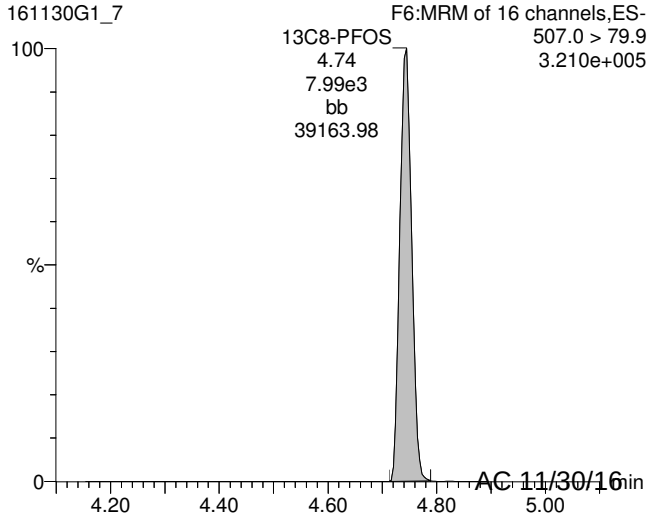
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

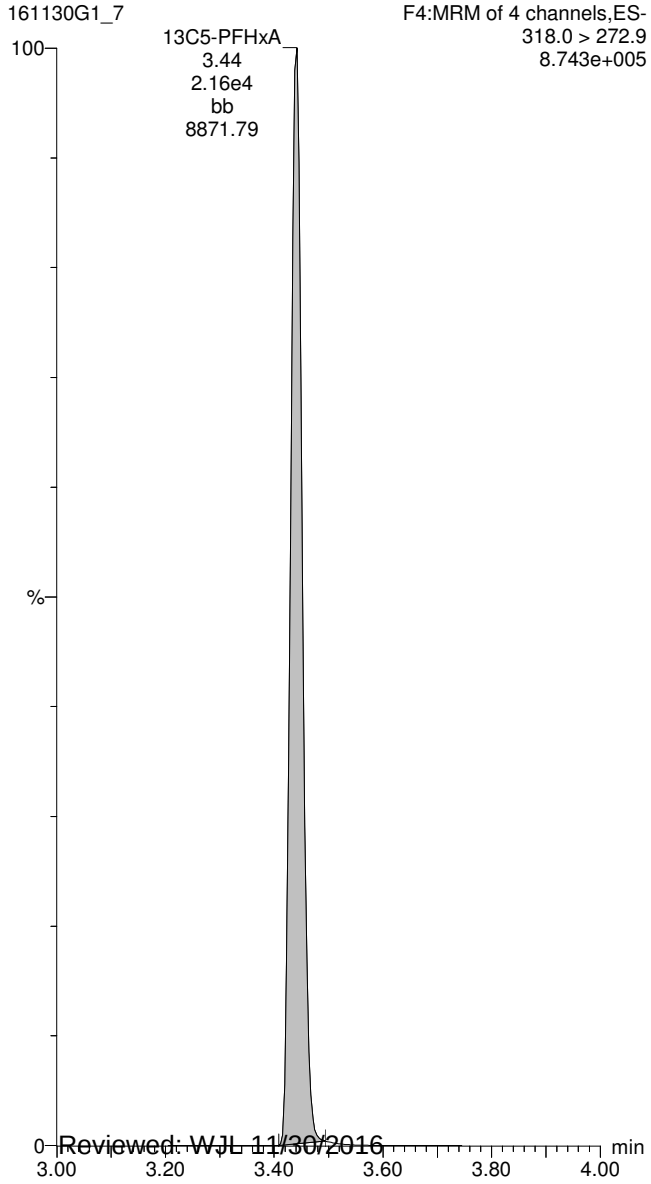
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-7.qld

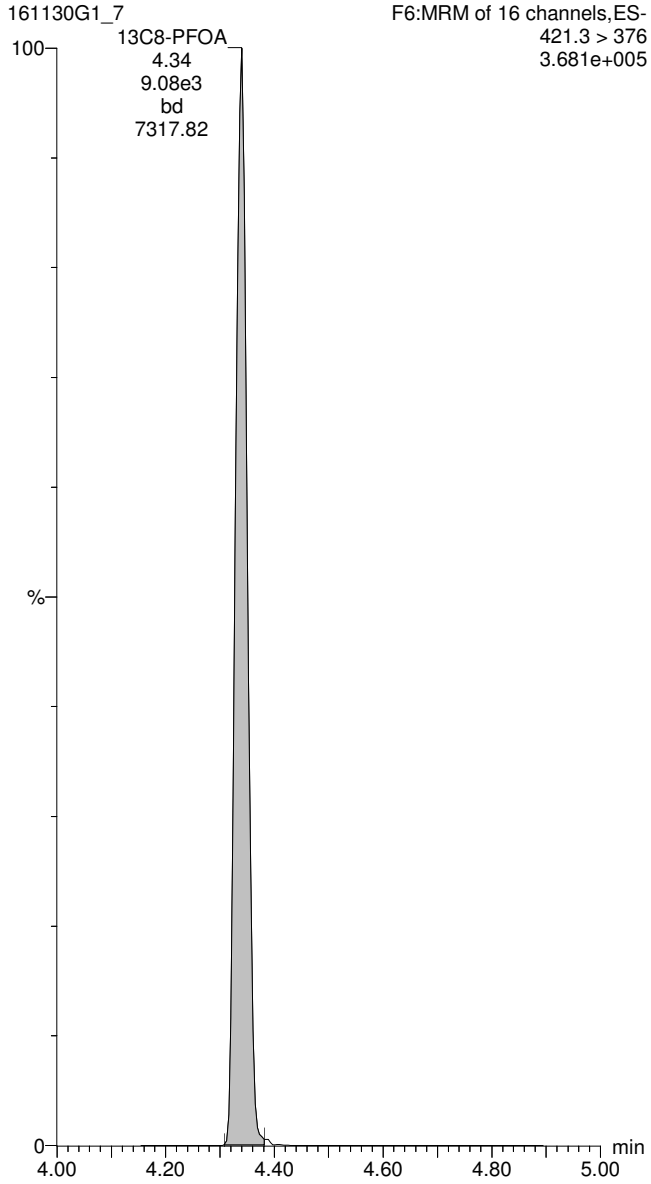
Last Altered: Wednesday, November 30, 2016 11:27:36 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:27:47 Pacific Standard Time

ID: 1601391-05 FB-M14-09D_161031 0.13094, Description: FB-M14-09D_161031, Name: 161130G1_7, Date: 30-Nov-2016, Time: 09:26:22, Instrument: , Lab: , User:

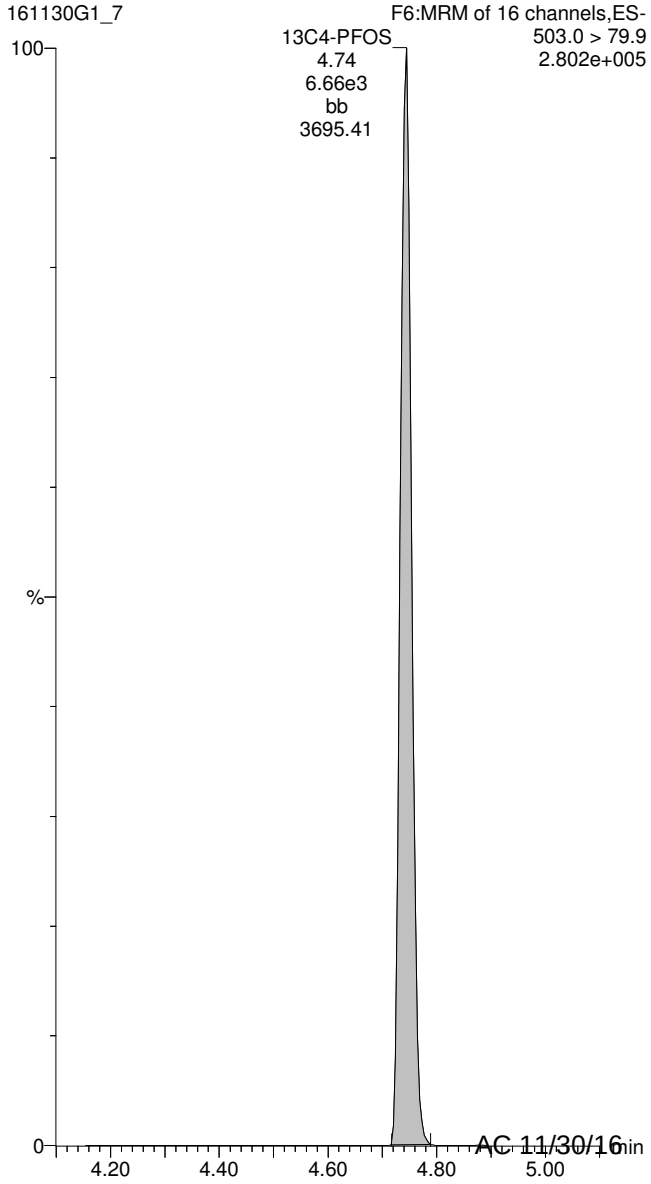
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-8.qld

Last Altered: Wednesday, November 30, 2016 11:29:47 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:30:38 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-06 FB-M14-09S_161031 0.13131, Description: FB-M14-09S_161031, Name: 161130G1_8, Date: 30-Nov-2016, Time: 09:40:26

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.182e3		0.131			
2	8	PFOA	413 > 368.7	3.501e2	2.549e4		0.131	4.34	0.676	
3	10	PFOS	499 >79.9	4.297e0	7.906e3		0.131	4.66	1.58	
4	16	13C3-PFBS	302.0 > 98.8	5.182e3	1.909e4	0.302	0.131	3.06	85.5	89.8
5	17	13C2-PFHxA	315 > 269.8	4.228e3	1.909e4	0.620	0.131	3.44	34.0	89.4
6	18	13C4-PFHpA	367.2 > 321.8	1.365e4	1.313e4	1.139	0.131	3.94	86.9	91.3
7	19	18O2-PFHxS	403 > 102.6	5.507e3	1.313e4	0.449	0.131	4.06	88.9	93.4
8	20	13C2-6:2 FTS	429.1 > 408.9	5.318e3	4.587e3	1.073	0.131	4.29	103	108
9	21	13C2-PFOA	414.9 > 369.7	2.549e4	9.685e3	2.262	0.131	4.34	111	116
10	22	13C8-PFOS	507.0 > 79.9	7.906e3	8.698e3	0.944	0.131	4.74	91.7	96.3
11	28	13C5-PFHxA	318.0 > 272.9	1.909e4	1.909e4	1.000	0.131	3.44	95.2	100
12	29	13C3-PFHxS	401.9 > 79.9	1.313e4	1.313e4	1.000	0.131	4.06	95.2	100
13	30	13C8-PFOA	421.3 > 376	9.685e3	9.685e3	1.000	0.131	4.34	95.2	100
14	31	13C4-PFOS	503.0 > 79.9	8.698e3	8.698e3	1.000	0.131	4.74	95.2	100
15	32	13C9-PFNA	472.2 > 426.9	1.219e4	1.219e4	1.000	0.131	4.68	95.2	100
16	33	13C6-PFDA	519.1 > 473.7	1.278e4	1.278e4	1.000	0.131	4.98	95.2	100
17	34	Total PFBS	299 > 79.7		5.507e3		0.131			
18	36	Total PFOA	413 > 368.7		2.549e4		0.131		0.676	
19	37	Total PFOS	499 > 79.9		7.906e3		0.131		1.58	

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

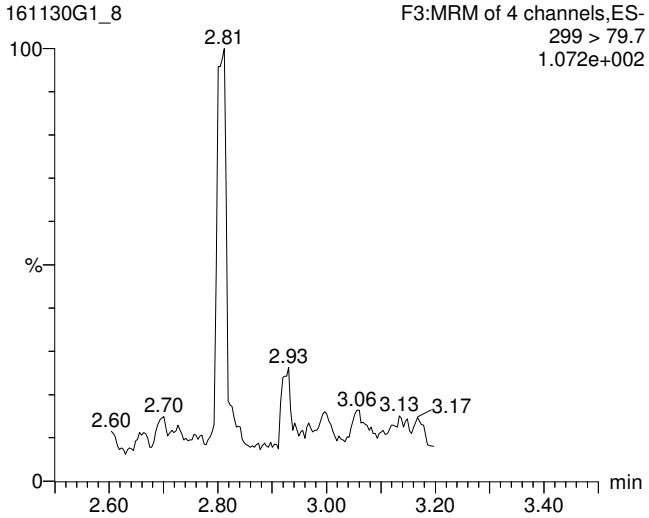
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-8.qld

Last Altered: Wednesday, November 30, 2016 11:29:47 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:30:38 Pacific Standard Time

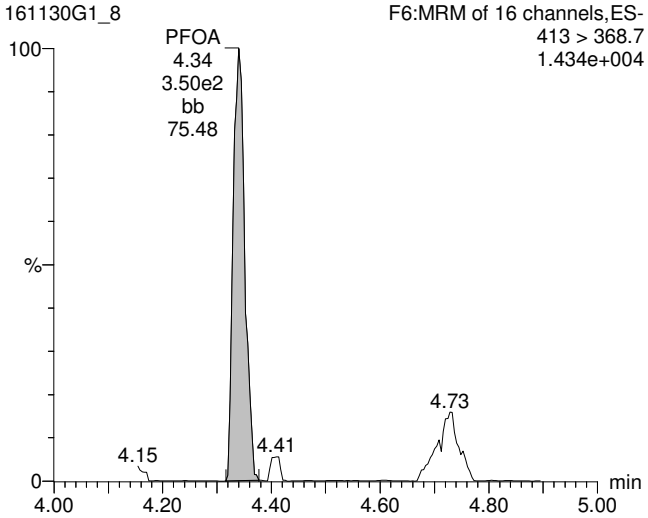
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-06 FB-M14-09S_161031 0.13131, Description: FB-M14-09S_161031, Name: 161130G1_8, Date: 30-Nov-2016, Time: 09:40:26, Instrument: , Lab: , User:

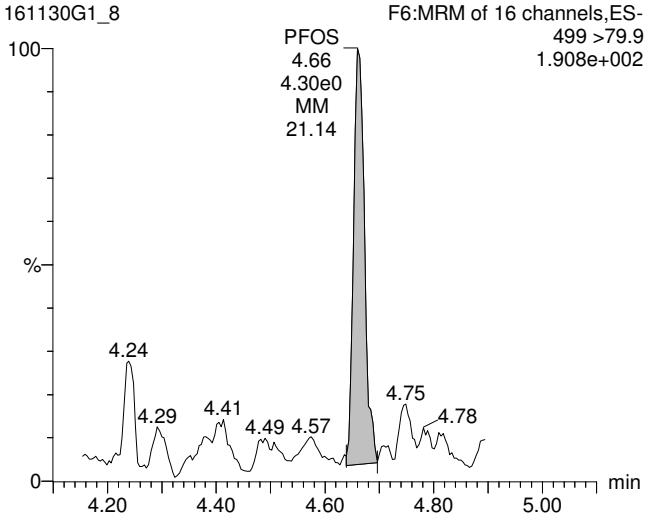
Total PFBS



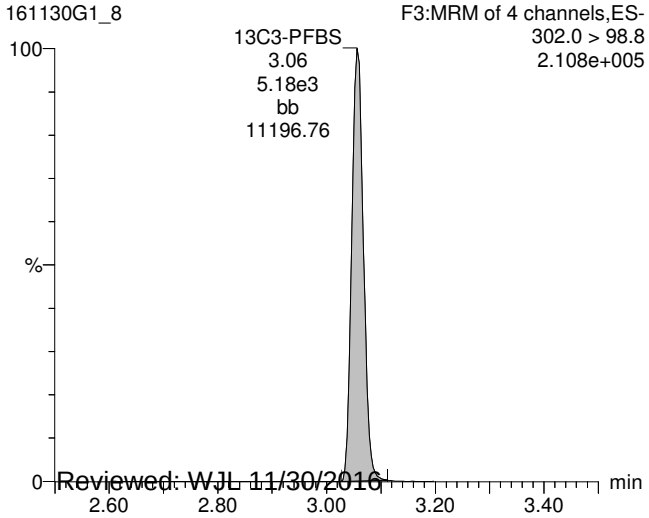
Total PFOA



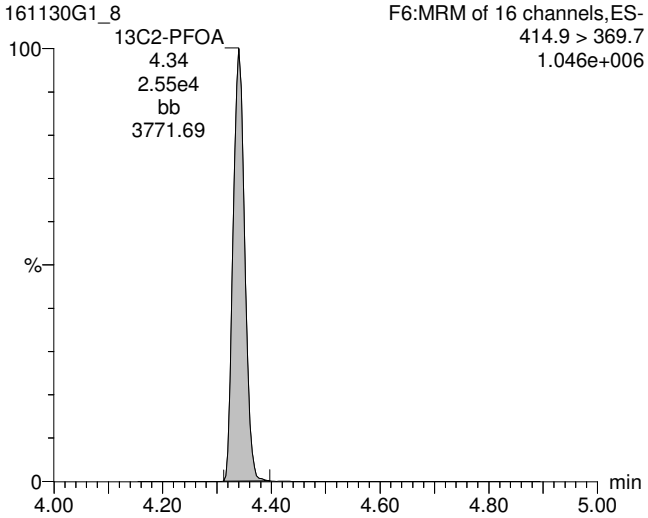
Total PFOS



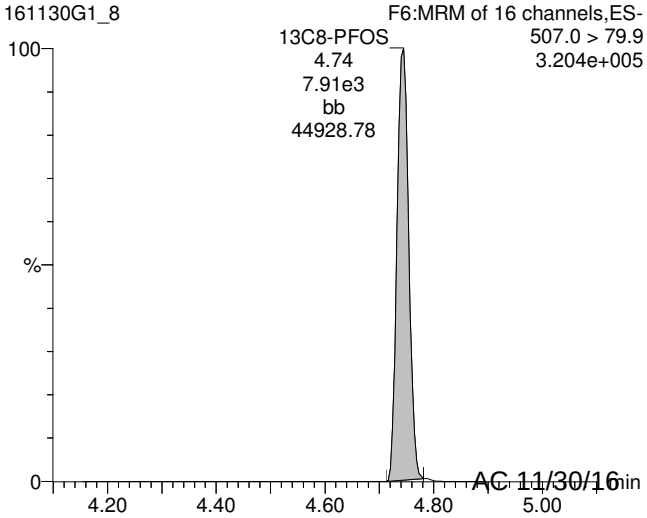
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

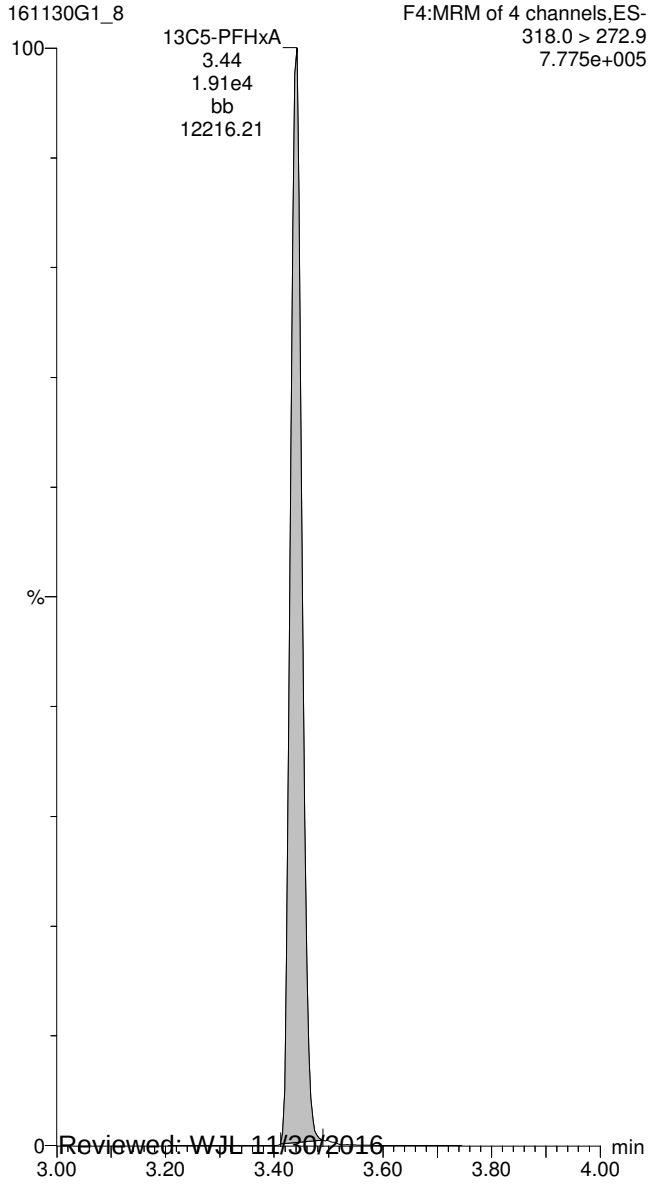
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-8.qld

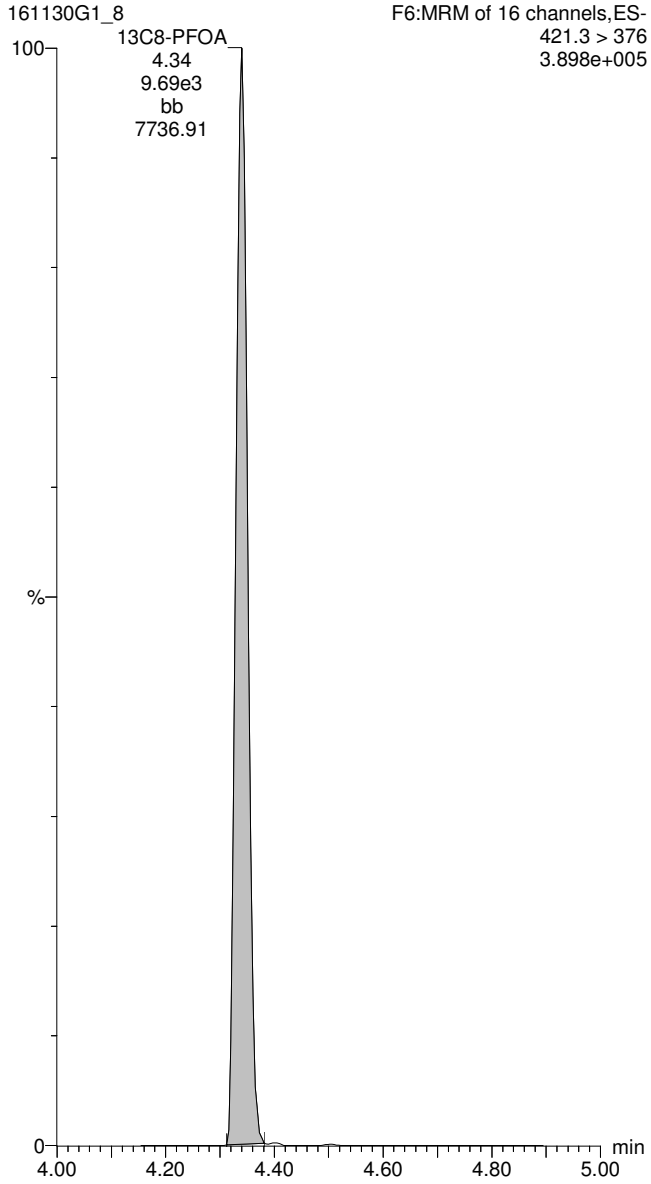
Last Altered: Wednesday, November 30, 2016 11:29:47 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:30:38 Pacific Standard Time

ID: 1601391-06 FB-M14-09S_161031 0.13131, Description: FB-M14-09S_161031, Name: 161130G1_8, Date: 30-Nov-2016, Time: 09:40:26, Instrument: , Lab: , User:

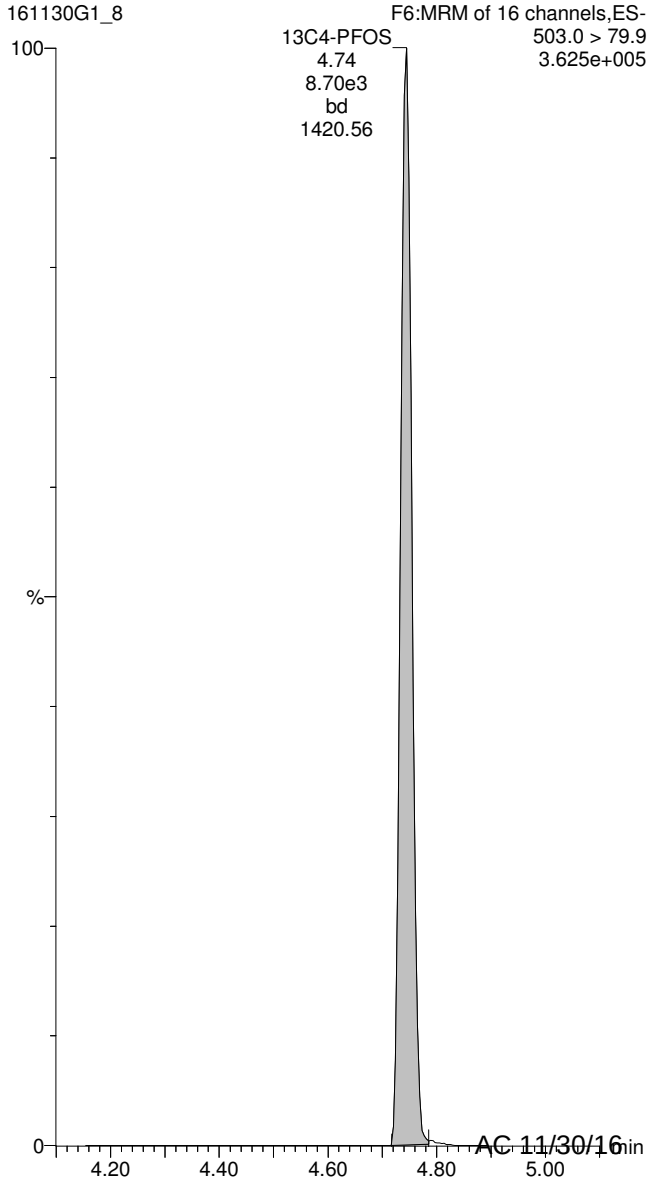
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-9.qld

Last Altered: Wednesday, November 30, 2016 11:31:46 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:32:04 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-07 FB-M14-14_161031 0.13013, Description: FB-M14-14_161031, Name: 161130G1_9, Date: 30-Nov-2016, Time: 09:53:14

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	9.680e-1	6.345e3		0.130	3.07	0.633	
2	8	PFOA	413 > 368.7	3.197e2	2.492e4		0.130	4.34	0.586	
3	10	PFOS	499 >79.9		8.104e3		0.130			
4	16	13C3-PFBS	302.0 > 98.8	6.345e3	2.032e4	0.302	0.130	3.07	99.3	103
5	17	13C2-PFHxA	315 > 269.8	4.833e3	2.032e4	0.620	0.130	3.44	36.9	96.0
6	18	13C4-PFHpA	367.2 > 321.8	1.467e4	1.304e4	1.139	0.130	3.94	94.9	98.8
7	19	18O2-PFHxS	403 > 102.6	5.864e3	1.304e4	0.449	0.130	4.06	96.1	100
8	20	13C2-6:2 FTS	429.1 > 408.9	4.082e3	5.187e3	1.073	0.130	4.29	70.5	73.3
9	21	13C2-PFOA	414.9 > 369.7	2.492e4	9.859e3	2.262	0.130	4.34	107	112
10	22	13C8-PFOS	507.0 > 79.9	8.104e3	6.934e3	0.944	0.130	4.74	119	124
11	28	13C5-PFHxA	318.0 > 272.9	2.032e4	2.032e4	1.000	0.130	3.44	96.1	100
12	29	13C3-PFHxS	401.9 > 79.9	1.304e4	1.304e4	1.000	0.130	4.06	96.1	100
13	30	13C8-PFOA	421.3 > 376	9.859e3	9.859e3	1.000	0.130	4.34	96.1	100
14	31	13C4-PFOS	503.0 > 79.9	6.934e3	6.934e3	1.000	0.130	4.74	96.1	100
15	32	13C9-PFNA	472.2 > 426.9	1.179e4	1.179e4	1.000	0.130	4.68	96.1	100
16	33	13C6-PFDA	519.1 > 473.7	1.059e4	1.059e4	1.000	0.130	4.98	96.1	100
17	34	Total PFBS	299 > 79.7		5.864e3		0.130		0.633	
18	36	Total PFOA	413 > 368.7		2.492e4		0.130		0.586	
19	37	Total PFOS	499 > 79.9		8.104e3		0.130			

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

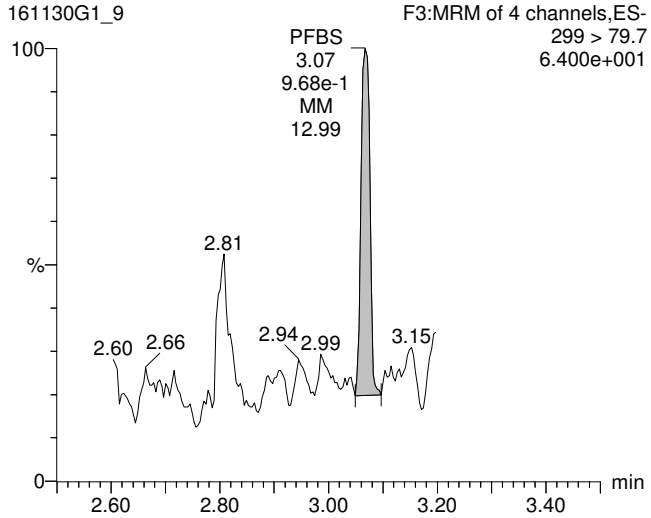
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-9.qld

Last Altered: Wednesday, November 30, 2016 11:31:46 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:32:04 Pacific Standard Time

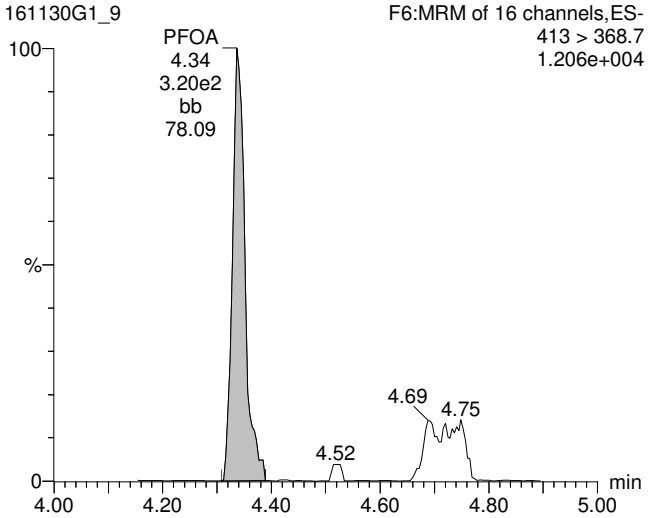
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-07 FB-M14-14_161031 0.13013, Description: FB-M14-14_161031, Name: 161130G1_9, Date: 30-Nov-2016, Time: 09:53:14, Instrument: , Lab: , User:

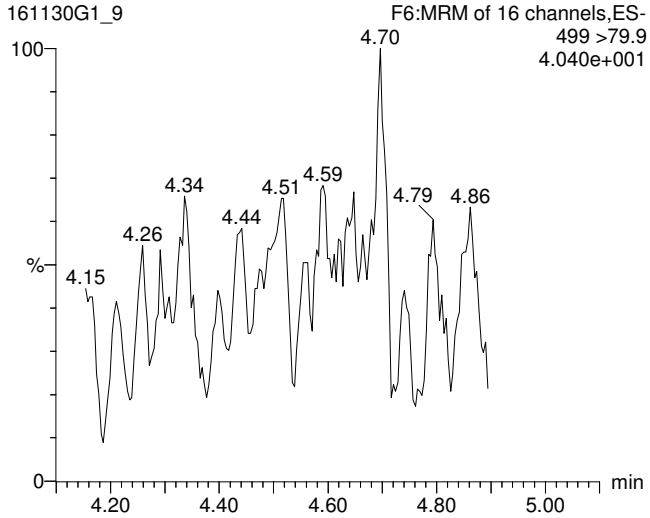
Total PFBS



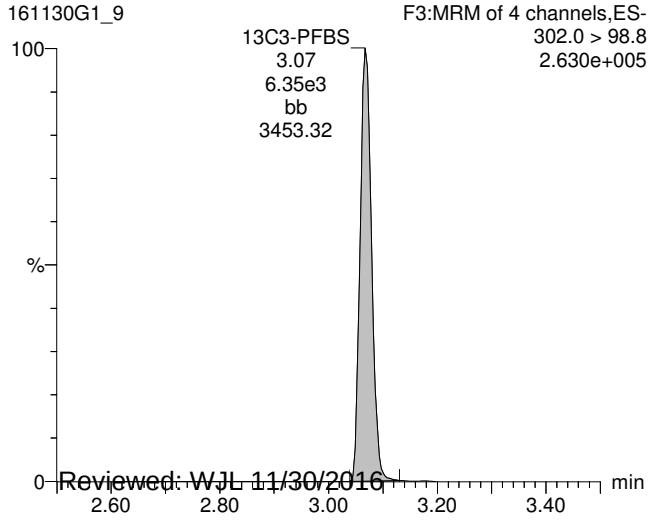
Total PFOA



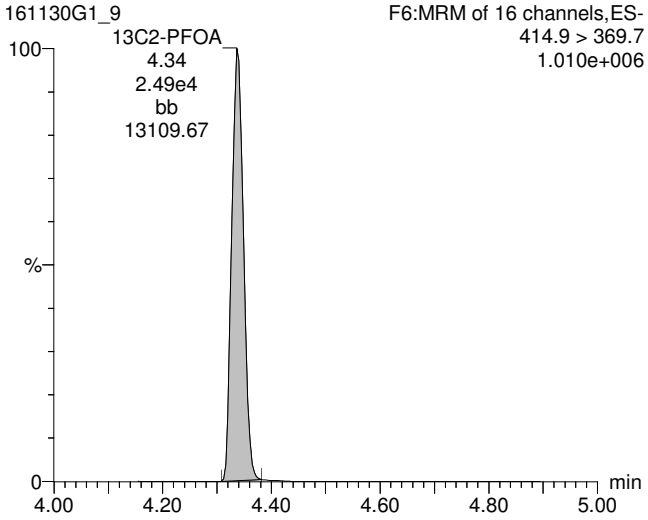
Total PFOS



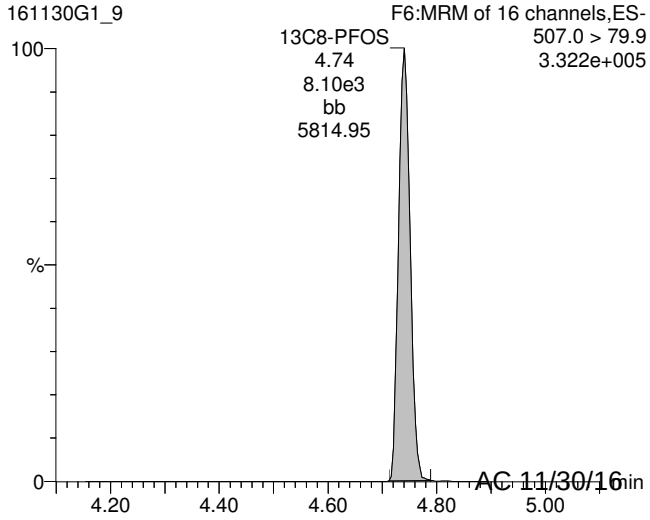
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

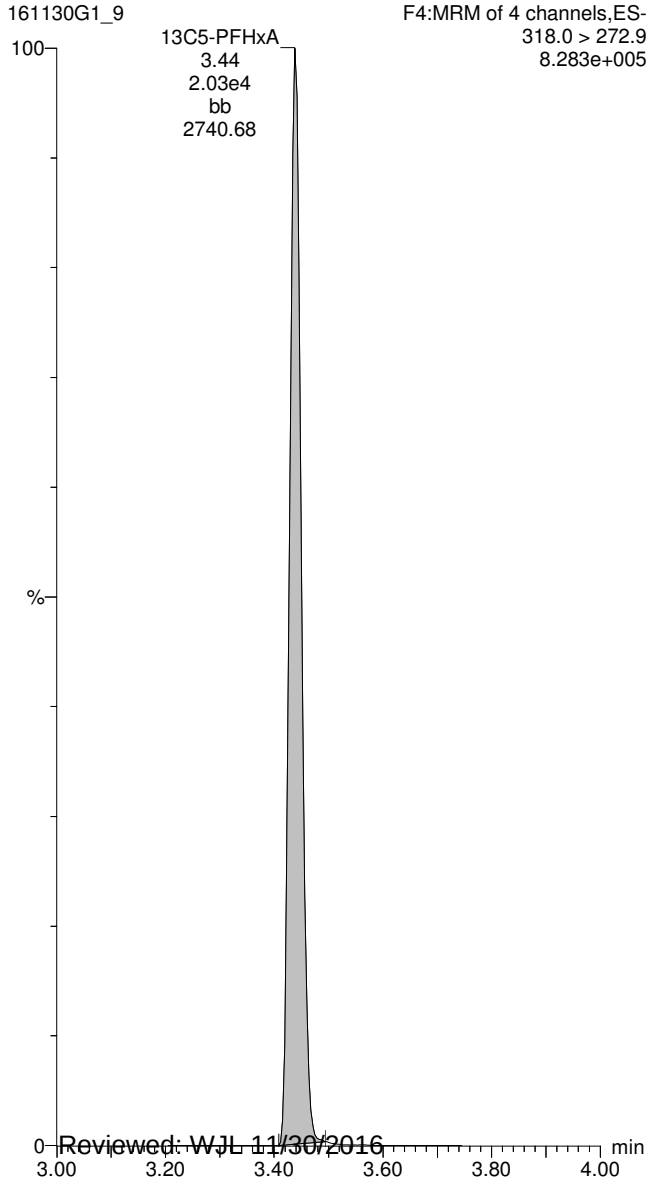
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-9.qld

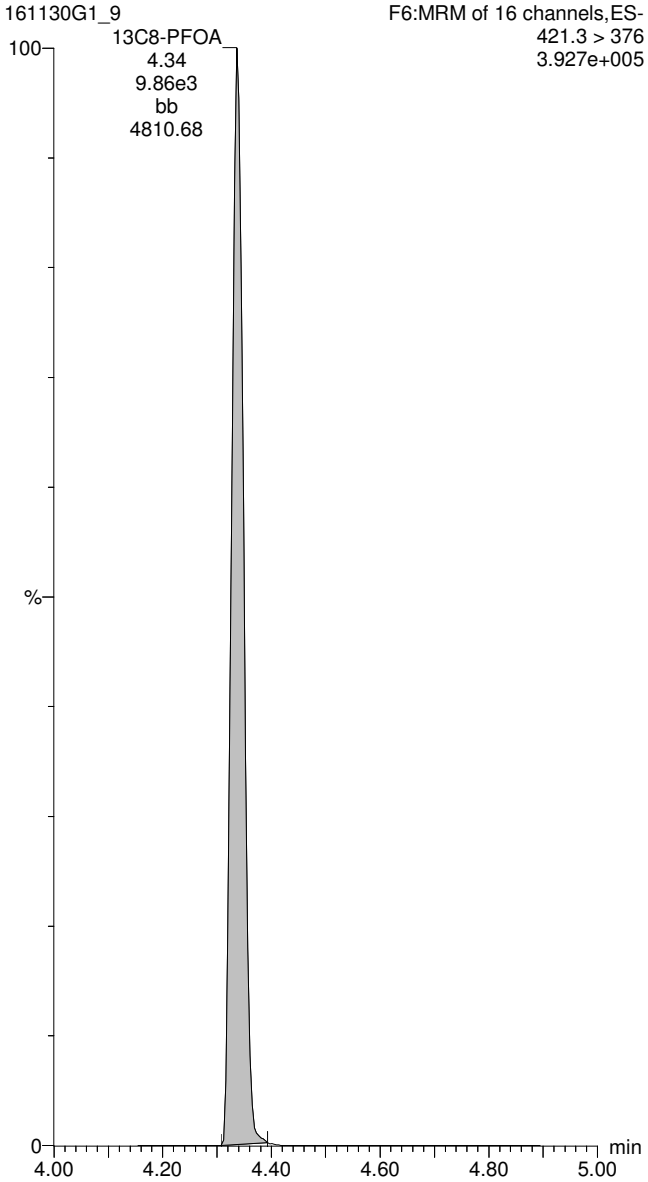
Last Altered: Wednesday, November 30, 2016 11:31:46 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:32:04 Pacific Standard Time

ID: 1601391-07 FB-M14-14_161031 0.13013, Description: FB-M14-14_161031, Name: 161130G1_9, Date: 30-Nov-2016, Time: 09:53:14, Instrument: , Lab: , User:

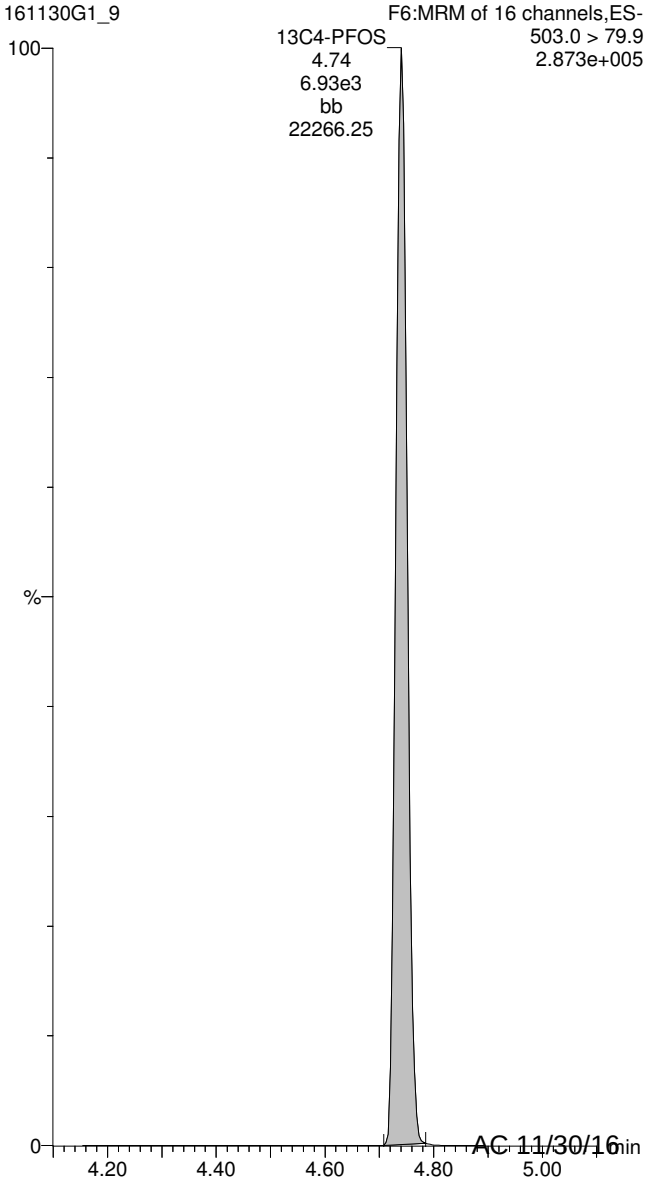
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:18:51 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:22:53 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	3	PFBS	79.90	2.554e3	2.300e2		0.128	3.40	1170		
2	8	PFOA	368.90	9.627e4	3.495e2		0.128	4.68	*		
3	10	PFOS	79.92	3.215e4	1.037e2		0.128	5.08	24200		
4	15	13C3-PFBS	79.95	2.300e2	4.099e2	0.531	0.128	3.40	103	106	
5	16	13C2-PFHxA	269.90	1.663e2	4.099e2	0.905	0.128	3.80	43.7	112	
6	17	13C4-PFHpA	321.90	2.836e2	4.099e2	0.770	0.128	4.28	87.7	89.9	
7	18	18O2-PFHxS	102.90	4.765e1	1.440e2	0.276	0.128	4.39	117	120	
8	19	13C2-6:2 FTS	408.90	8.900e1	3.466e2	0.219	0.128	4.63	114	117	
9	20	13C2-PFOA	369.90	3.495e2	3.466e2	0.663	0.128	4.68	148	152	H
10	21	13C5-PFNA	422.90	1.972e2	2.103e2	1.019	0.128	5.01	89.7	92.0	
11	22	13C8-PFOS	79.93	1.037e2	1.054e2	0.921	0.128	5.07	104	107	
12	25	13C4-PFBA	171.90	3.945e2	3.945e2	1.000	0.128	1.91	97.5	100	
13	26	13C5-PFHxA	273.00	4.099e2	4.099e2	1.000	0.128	3.80	97.5	100	
14	27	13C3-PFHxS	80.01	1.440e2	1.440e2	1.000	0.128	4.39	97.5	100	
15	28	13C8-PFOA	375.90	3.466e2	3.466e2	1.000	0.128	4.68	97.5	100	
16	29	13C4-PFOS	79.94	1.054e2	1.054e2	1.000	0.128	5.07	97.5	100	
17	30	13C9-PFNA	427.00	2.103e2	2.103e2	1.000	0.128	5.01	97.5	100	
18	31	13C6-PFDA	474.00	1.510e2	1.510e2	1.000	0.128	5.30	97.5	100	
19	32	Total PFBS	79.90		2.300e2		0.128		1200		
20	34	Total PFOA	368.90		3.495e2		0.128		82.7*		
21	35	Total PFOS	79.92		1.037e2		0.128		39200		

*Report from ug/L Targeting

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:18:51 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:22:53 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	2554.218	229.989	1168.0
2	32	Total PFBS	79.90	3.27	50.652	229.989	27.2

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.39	46682.508	47.649	18497.3
2	33	Total PFHxS	79.91	4.30	7236.657	47.649	4058.5
3	33	Total PFHxS	79.91	4.28	2699.876	47.649	1627.9
4	33	Total PFHxS	79.91	4.19	71.289	47.649	45.1

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	96267.625	349.454	
2	34	Total PFOA	368.90	4.58	21117.713	349.454	
3	34	Total PFOA	368.90	4.46	382.269	349.454	82.7

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.96	18419.303	103.654	13849.2
2	35	Total PFOS	79.92	4.87	1540.380	103.654	1157.5
3	10	PFOS	79.92	5.08	32150.447	103.654	24174.0

Vista Analytical Laboratory Q1

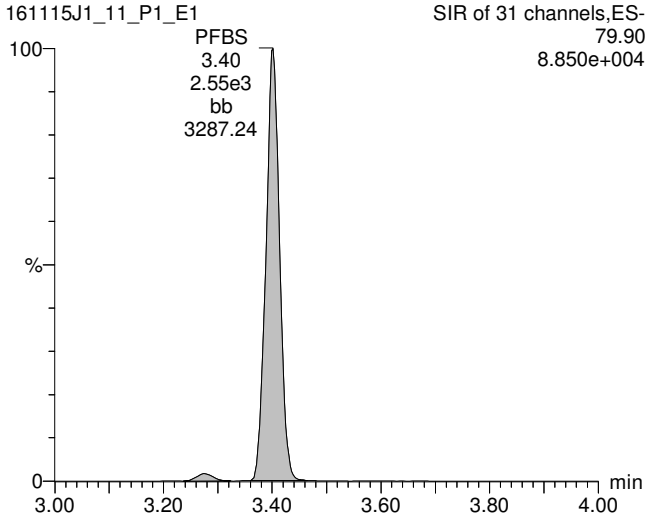
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:18:51 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:22:53 Pacific Standard Time

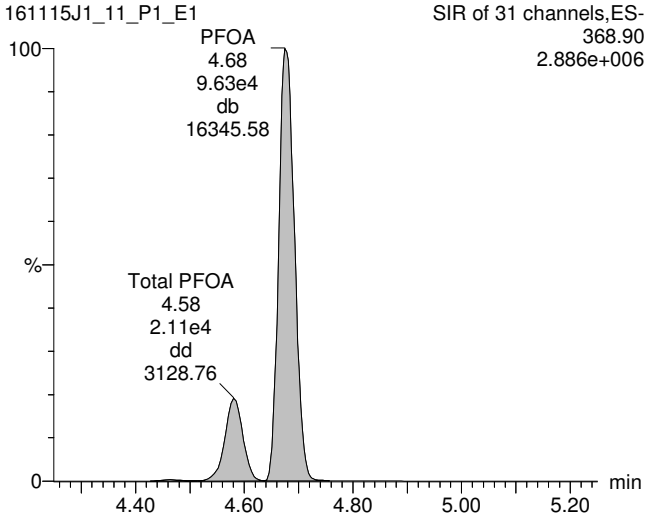
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

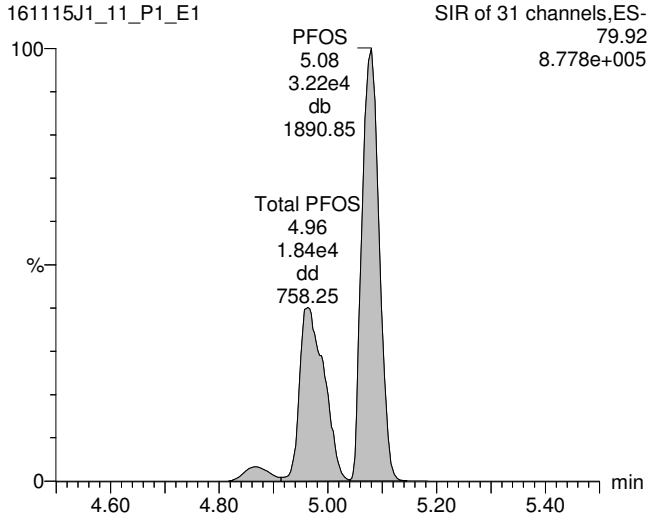
Total PFBS



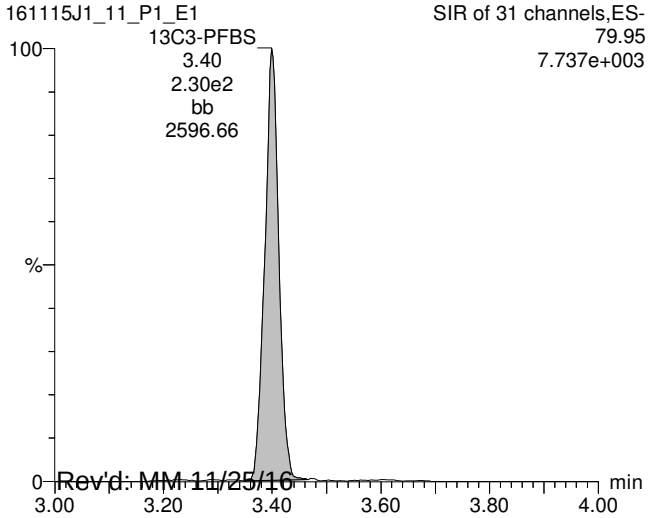
Total PFOA



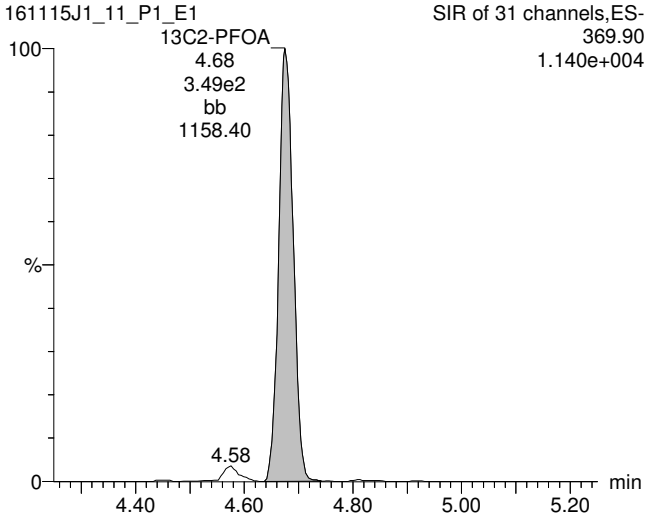
Total PFOS



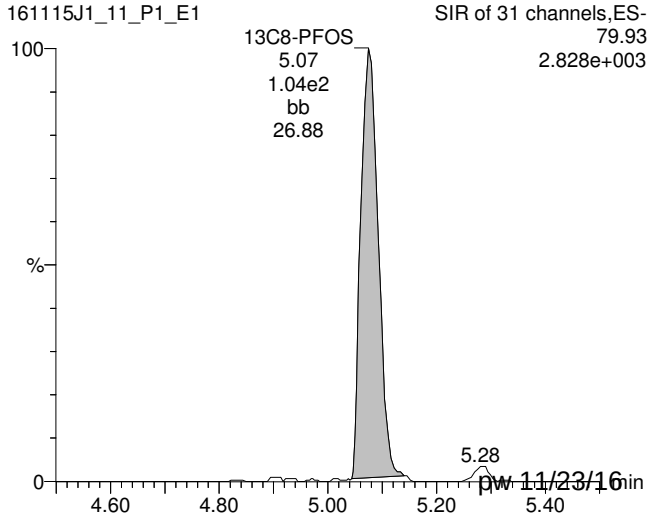
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - 161115J1_11_nglTarget.qld

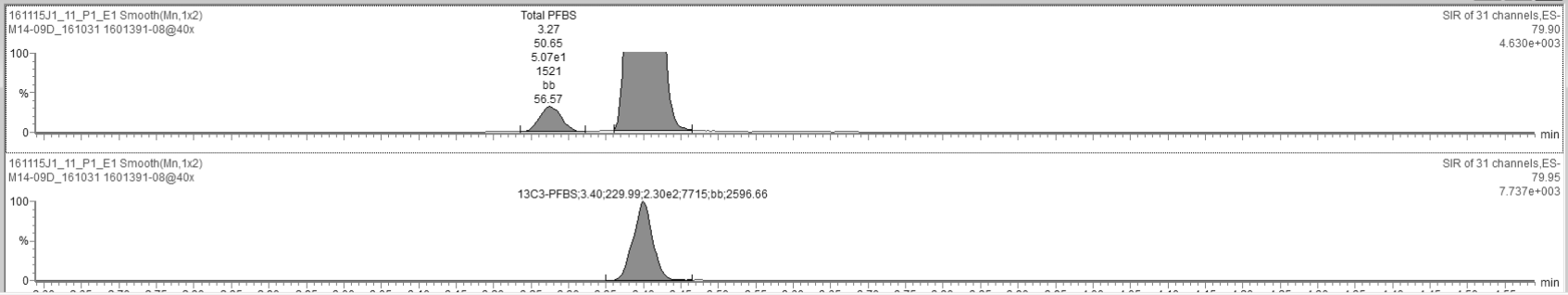
File Edit View Display Processing Window Help

161115J1_11_P1_E1 - 1601391-08@40x - M14-09D_161031

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
12	8:2 FTS	506.90	4.03e1		0.128	5.28	5.28	109	YES		0.5627070
13	13C3-PFBA	172.00	3.67e2	0.894	0.128	1.91	1.91	101	YES	104.0	1.0068163
14	13C3-PFPeA	221.90	3.95e2	0.945	0.128	3.18	3.11	99.3	YES	101.8	0.7933794
15	13C3-PFBS	79.95	2.30e2	0.531	0.128	3.43	3.40	103	NO	105.7	0.0974251
16	13C2-PFHxA	269.90	1.66e2	0.905	0.128	3.80	3.80	43.7	YES	112.1	0.0700257
17	13C4-PFHpA	321.90	2.84e2	0.770	0.128	4.27	4.28	87.7	NO	89.9	0.0943212
18	18O2-PFHxS	102.90	4.76e1	0.276	0.128	4.39	4.39	117	NO	119.9	0.0000000
19	13C2-6:2 FTS	408.90	8.90e1	0.219	0.128	4.64	4.63	114	YES	117.4	0.3266514
20	13C2-PFOA	369.90	3.49e2	0.663	0.128	4.68	4.68	148	NO	152.0	0.3357305
21	13C5-PFNA	422.90	1.97e2	1.02	0.128	5.01	5.01	89.7	NO	92.0	0.0000000
22	13C8-PFOS	79.93	1.04e2	0.921	0.128	5.07	5.07	104	NO	106.7	9.2154949
23	13C2-PFDA	470.00	9.67e1	0.887	0.128	5.30	5.30	70.4	YES	72.2	0.2255758
24	13C2-8:2 FTS	508.70	3.40e1	0.272	0.128	5.26	5.28	80.9	YES	83.0	0.6030369
25	13C4-PFBA	171.90	3.95e2	1.00	0.128	1.95	1.91	97.5	YES	100.0	0.6935843
26	13C5-PFHxA	273.00	4.10e2	1.00	0.128	3.83	3.80	97.5	NO	100.0	0.0341365
27	13C3-PFHxS	80.01	1.44e2	1.00	0.128	4.40	4.39	97.5	NO	100.0	0.3251402
28	13C8-PFOA	375.90	3.47e2	1.00	0.128	4.71	4.68	97.5	NO	100.0	0.0943530
29	13C4-PFOS	79.94	1.05e2	1.00	0.128	5.15	5.07	97.5	NO	100.0	1.0792203
30	13C9-PFNA	427.00	2.10e2	1.00	0.128	5.15	5.01	97.5	NO	100.0	0.0000000
31	13C6-PFDA	474.00	1.51e2	1.00	0.128	5.30	5.30	97.5	YES	100.0	0.0000000
32	Total PFBS	79.90	2.60e3		0.128	3.59		1200	NO		
33	Total PFHxS	79.91	5.67e4		0.128	4.66		24200	NO		
34	Total PFOA	368.90	1.18e5		0.128	4.82		82.7	NO		
35	Total PFOS	79.92	5.21e4		0.128	5.27		39200	NO		

	Name	RT	m1 Resp	Resp.	Conc.
1	PFBS	3.40	2550	2550	1168.0
2	Total PFBS	3.27	50.7	50.7	27.209

Chromatogram



Ready 161115J1_11_P1_E1 NUM

TargetLynx - 161115J1_11_nglTarget.qld

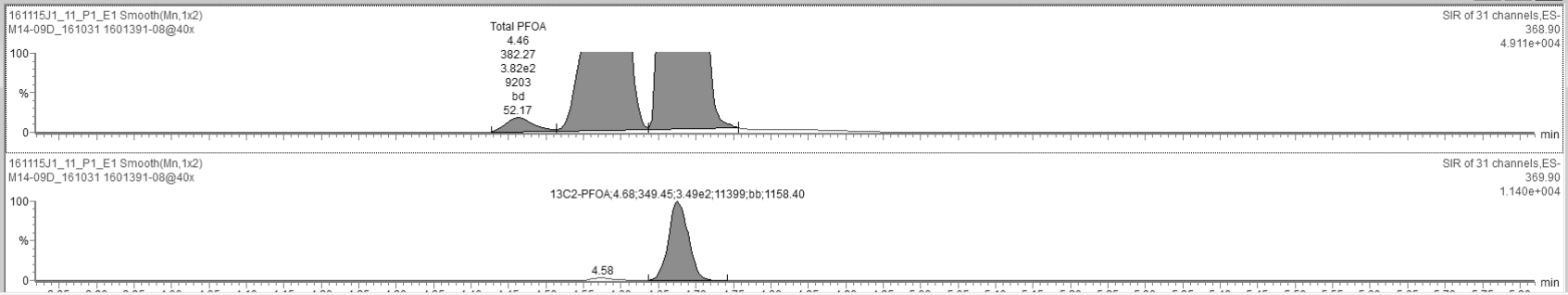
File Edit View Display Processing Window Help

161115J1_11_P1_E1 - 1601391-08@40x - M14-09D_161031

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
12	8:2 FTS	506.90	4.03e1		0.128	5.28	5.28	109	YES		0.5627070
13	13C3-PFBA	172.00	3.67e2	0.894	0.128	1.91	1.91	101	YES	104.0	1.0068163
14	13C3-PFPeA	221.90	3.95e2	0.945	0.128	3.18	3.11	99.3	YES	101.8	0.7933794
15	13C3-PFBS	79.95	2.30e2	0.531	0.128	3.43	3.40	103	NO	105.7	0.0974251
16	13C2-PFHxA	269.90	1.66e2	0.905	0.128	3.80	3.80	43.7	YES	112.1	0.0700257
17	13C4-PFHpA	321.90	2.84e2	0.770	0.128	4.27	4.28	87.7	NO	89.9	0.0943212
18	18O2-PFHxS	102.90	4.76e1	0.276	0.128	4.39	4.39	117	NO	119.9	0.0000000
19	13C2-6:2 FTS	408.90	8.90e1	0.219	0.128	4.64	4.63	114	YES	117.4	0.3266514
20	13C2-PFOA	369.90	3.49e2	0.663	0.128	4.68	4.68	148	NO	152.0	0.3357305
21	13C5-PFNA	422.90	1.97e2	1.02	0.128	5.01	5.01	89.7	NO	92.0	0.0000000
22	13C8-PFOS	79.93	1.04e2	0.921	0.128	5.07	5.07	104	NO	106.7	9.2154949
23	13C2-PFDA	470.00	9.67e1	0.887	0.128	5.30	5.30	70.4	YES	72.2	0.2255758
24	13C2-8:2 FTS	508.70	3.40e1	0.272	0.128	5.26	5.28	80.9	YES	83.0	0.6030369
25	13C4-PFBA	171.90	3.95e2	1.00	0.128	1.95	1.91	97.5	YES	100.0	0.6935843
26	13C5-PFHxA	273.00	4.10e2	1.00	0.128	3.83	3.80	97.5	NO	100.0	0.0341365
27	13C3-PFHxS	80.01	1.44e2	1.00	0.128	4.40	4.39	97.5	NO	100.0	0.3251402
28	13C8-PFOA	375.90	3.47e2	1.00	0.128	4.71	4.68	97.5	NO	100.0	0.0943530
29	13C4-PFOS	79.94	1.05e2	1.00	0.128	5.15	5.07	97.5	NO	100.0	1.0792203
30	13C9-PFNA	427.00	2.10e2	1.00	0.128	5.15	5.01	97.5	NO	100.0	0.0000000
31	13C6-PFDA	474.00	1.51e2	1.00	0.128	5.30	5.30	97.5	YES	100.0	0.0000000
32	Total PFBS	79.90	2.60e3		0.128	3.59		1200	NO		
33	Total PFHxS	79.91	5.67e4		0.128	4.66		24200	NO		
34	Total PFOA	368.90	1.18e5		0.128	4.82		82.7	NO		
35	Total PFOS	79.92	5.21e4		0.128	5.27		39200	NO		

	Name	RT	m1 Resp	Resp.	Conc.
1	PFOA	4.68	96300	96300	
2	Total PFOA	4.58	21100	21100	

Chromatogram



Ready 161115J1_11_P1_E1 NUM

TargetLynx - 161115J1_11_ngLTarget.qld

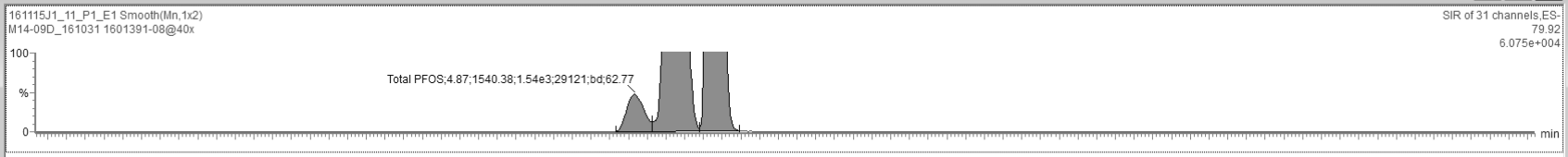
File Edit View Display Processing Window Help

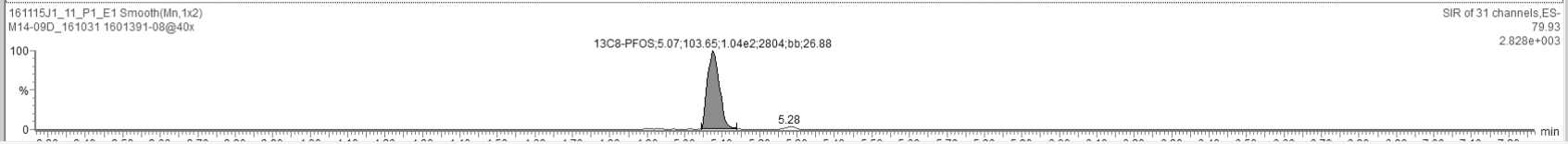
161115J1_11_P1_E1 - 1601391-08@40x - M14-09D_161031

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
12	8:2 FTS	506.90	4.03e1		0.128	5.28	5.28	109	YES		0.5627070
13	13C3-PFBA	172.00	3.67e2	0.894	0.128	1.91	1.91	101	YES	104.0	1.0068163
14	13C3-PFPeA	221.90	3.95e2	0.945	0.128	3.18	3.11	99.3	YES	101.8	0.7933794
15	13C3-PFBS	79.95	2.30e2	0.531	0.128	3.43	3.40	103	NO	105.7	0.0974251
16	13C2-PFHxA	269.90	1.66e2	0.905	0.128	3.80	3.80	43.7	YES	112.1	0.0700257
17	13C4-PFHpA	321.90	2.84e2	0.770	0.128	4.27	4.28	87.7	NO	89.9	0.0943212
18	18O2-PFHxS	102.90	4.76e1	0.276	0.128	4.39	4.39	117	NO	119.9	0.0000000
19	13C2-6:2 FTS	408.90	8.90e1	0.219	0.128	4.64	4.63	114	YES	117.4	0.3266514
20	13C2-PFOA	369.90	3.49e2	0.663	0.128	4.68	4.68	148	NO	152.0	0.3357305
21	13C5-PFNA	422.90	1.97e2	1.02	0.128	5.01	5.01	89.7	NO	92.0	0.0000000
22	13C8-PFOS	79.93	1.04e2	0.921	0.128	5.07	5.07	104	NO	106.7	9.2154949
23	13C2-PFDA	470.00	9.67e1	0.887	0.128	5.30	5.30	70.4	YES	72.2	0.2255758
24	13C2-8:2 FTS	508.70	3.40e1	0.272	0.128	5.26	5.28	80.9	YES	83.0	0.6030369
25	13C4-PFBA	171.90	3.95e2	1.00	0.128	1.95	1.91	97.5	YES	100.0	0.6935843
26	13C5-PFHxA	273.00	4.10e2	1.00	0.128	3.83	3.80	97.5	NO	100.0	0.0341365
27	13C3-PFHxS	80.01	1.44e2	1.00	0.128	4.40	4.39	97.5	NO	100.0	0.3251402
28	13C8-PFOA	375.90	3.47e2	1.00	0.128	4.71	4.68	97.5	NO	100.0	0.0943530
29	13C4-PFOS	79.94	1.05e2	1.00	0.128	5.15	5.07	97.5	NO	100.0	1.0792203
30	13C9-PFNA	427.00	2.10e2	1.00	0.128	5.15	5.01	97.5	NO	100.0	0.0000000
31	13C6-PFDA	474.00	1.51e2	1.00	0.128	5.30	5.30	97.5	YES	100.0	0.0000000
32	Total PFBS	79.90	2.60e3		0.128	3.59		1200	NO		
33	Total PFHxS	79.91	5.67e4		0.128	4.66		24200	NO		
34	Total PFOA	368.90	1.18e5		0.128	4.82		82.7	NO		
35	Total PFOS	79.92	5.21e4		0.128	5.27		39200	NO		

	Name	RT	m1 Resp	Resp.	Conc.
1	Total PFOS	4.96	18400	18400	13849
2	Total PFOS	4.87	1540	1540	1157.5

Chromatogram





Ready 161115J1_11_P1_E1 NUM

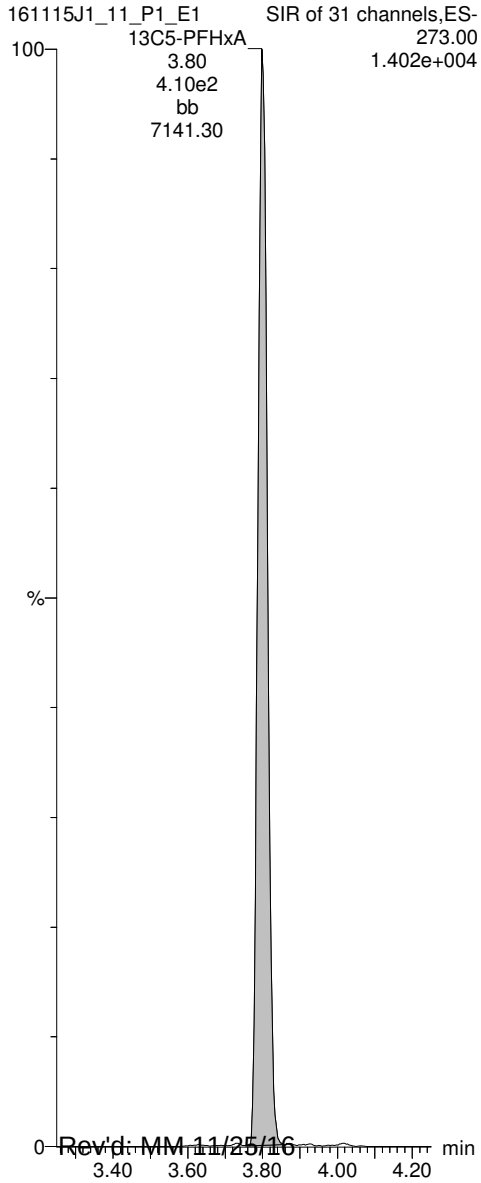
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ngLTarget.qld

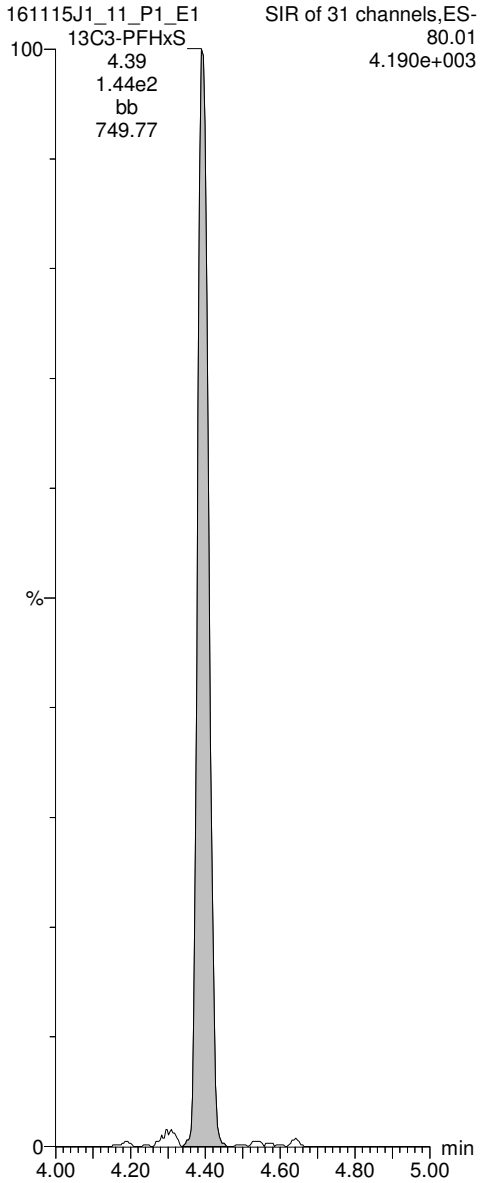
Last Altered: Wednesday, November 23, 2016 17:18:51 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:22:53 Pacific Standard Time

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

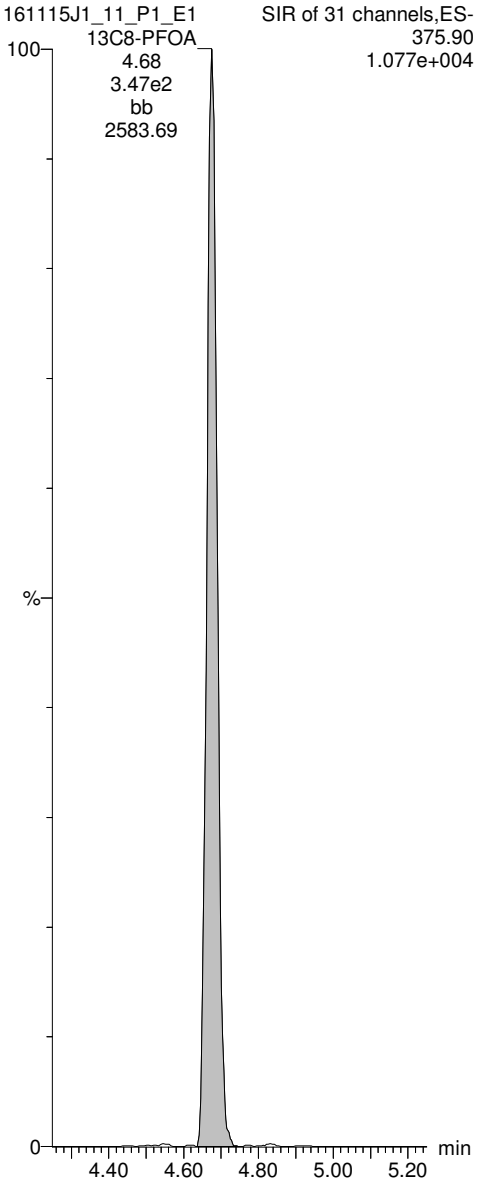
13C5-PFHxA



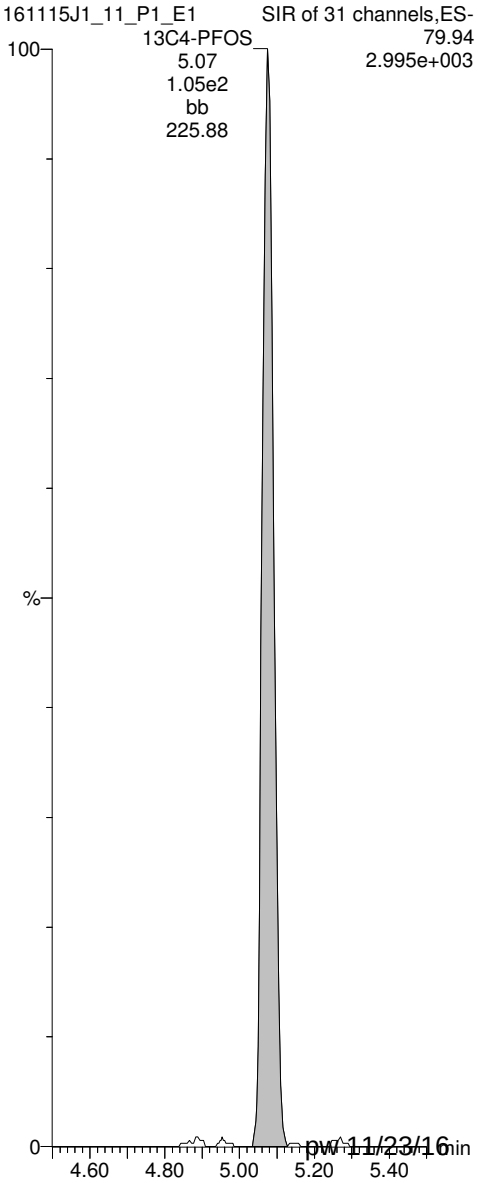
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:26:49 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:29:16 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	9.637e4	3.495e2		0.128	4.68	20.3		
2	20	13C2-PFOA	369.90	3.495e2	3.466e2	0.663	0.128	4.68	0.148	152	H Target = ug/L
3	28	13C8-PFOA	375.90	3.466e2	3.466e2	1.000	0.128	4.68	0.0975	100	
4	34	Total PFOA	368.90		3.495e2		0.128		24.6		

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:26:49 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:29:16 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	2554.218	229.989	
2	32	Total PFBS	79.90	3.27	50.652	229.989	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.39	46682.508	47.649	29.5
2	33	Total PFHxS	79.91	4.30	7236.657	47.649	4.5
3	33	Total PFHxS	79.91	4.28	2699.876	47.649	1.6
4	33	Total PFHxS	79.91	4.19	71.289	47.649	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	96367.906	349.454	20.3
2	34	Total PFOA	368.90	4.58	21537.414	349.454	4.3

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.96	18419.303	103.654	13.1
2	35	Total PFOS	79.92	4.87	1540.380	103.654	0.4
3	10	PFOS	79.92	5.08	32150.447	103.654	23.4

Vista Analytical Laboratory Q1

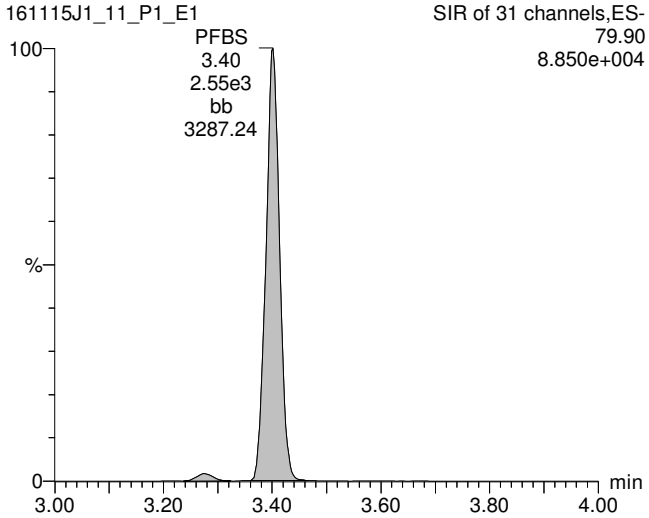
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:26:49 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:29:16 Pacific Standard Time

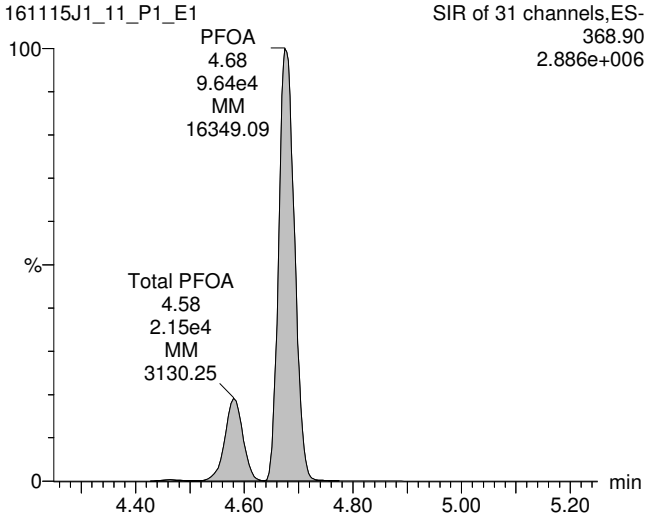
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

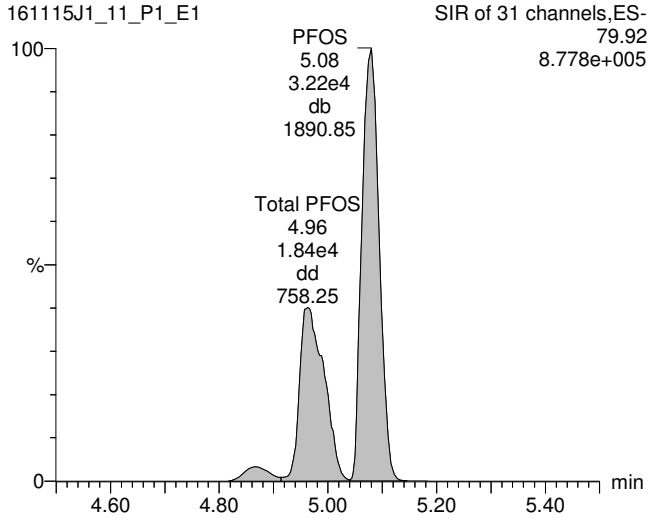
Total PFBS



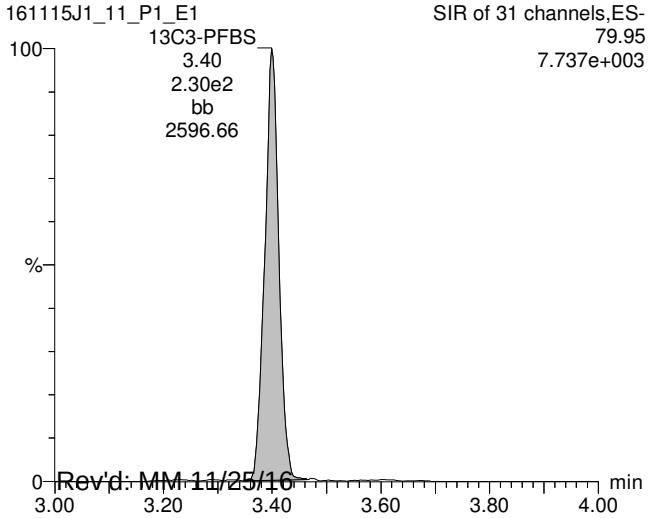
Total PFOA



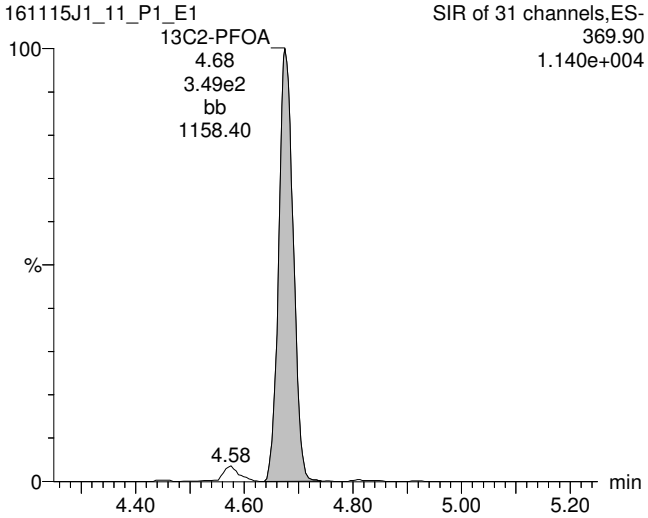
Total PFOS



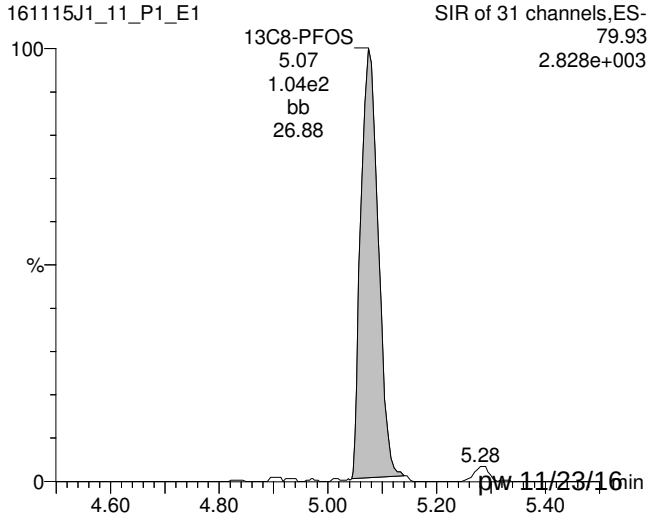
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - 161115J1_11_ugLTarget.qld

File Edit View Display Processing Window Help

161115J1_11_P1_E1 - 1601391-08@40x - M14-09D_161031

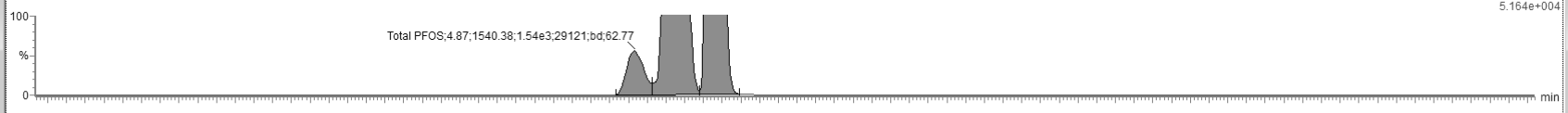
	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	0.66555752	0.563			4.031e1		5.28	12	24			0.999	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
13	13C3-PFBA	0.10144520	0.00101	104.0		3.670e2	0.894	1.91	13	25			1.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
14	13C3-PFPeA	0.0992982...	0.000793	101.8		3.946e2	0.945	3.11	14	26			0.819	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
15	13C3-PFBS	0.10306402	0.0000...	105.7		2.300e2	0.531	3.40	15	26			0.895	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
16	13C2-PFHxA	0.0437275...	0.0000...	112.1		1.663e2	0.905	3.80	16	26			1.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
17	13C4-PFHpA	0.0876735...	0.0000...	89.9		2.836e2	0.770	4.28	17	26			1.126	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
18	18O2-PFHxS	0.11693362	0.0000...	119.9		4.765e1	0.276	4.39	18	27			1.001	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
19	13C2-6:2 FTS	0.11449515	0.000327	117.4		8.900e1	0.219	4.63	19	28			0.991	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
20	13C2-PFOA	0.14820944	0.000336	152.0		3.495e2	0.663	4.68	20	28			1.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
21	13C5-PFNA	0.0896774...	0.0000...	92.0		1.972e2	1.019	5.01	21	30			1.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
22	13C8-PFOS	0.10404585	0.00922	106.7		1.037e2	0.921	5.07	22	29			1.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
23	13C2-PFDA	0.0704219...	0.000226	72.2		9.671e1	0.887	5.30	23	31			1.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
24	13C2-8:2 FTS	0.0809176...	0.000603	83.0		3.404e1	0.272	5.28	24	31			0.997	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
25	13C4-PFBA	0.0975115...	0.000694	100.0		3.945e2	1.000	1.91	25	25			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
26	13C5-PFHxA	0.0975115...	0.0000...	100.0		4.099e2	1.000	3.80	26	26			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
27	13C3-PFHxS	0.0975115...	0.000325	100.0		1.440e2	1.000	4.39	27	27			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
28	13C8-PFOA	0.0975115...	0.0000...	100.0		3.466e2	1.000	4.68	28	28			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
29	13C4-PFOS	0.0975115...	0.00108	100.0		1.054e2	1.000	5.07	29	29			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
30	13C9-PFNA	0.0975115...	0.0000...	100.0		2.103e2	1.000	5.01	30	30			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
31	13C6-PFDA	0.0975115...	0.0000...	100.0		1.510e2	1.000	5.30	31	31			0.000	15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
32	Total PFBS								32					15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
33	Total PFHxS	35.618316							33					15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
34	Total PFOA	24.622713							34					15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO
35	Total PFOS	36.880979							35					15-Nov-16	17:44:52		1601391-08...	M14-09D_161031	0.0	0.128	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	Total PFOS	4.96	3.518e5		1.842e4				1.842e4	13.083	
2	Total PFOS	4.87	2.912e4		1.540e3				1.540e3	0.39090	

Chromatogram

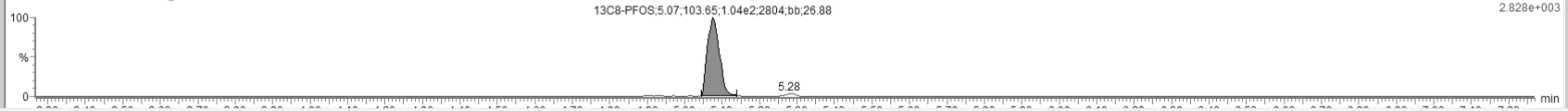
161115J1_11_P1_E1 Smooth(Mn,1x2)
M14-09D_161031 1601391-08@40x

SIR of 31 channels,ES-
79.92
5.164e+004



161115J1_11_P1_E1 Smooth(Mn,1x2)
M14-09D_161031 1601391-08@40x

SIR of 31 channels,ES-
79.93
2.828e+003



Ready 161115J1_11_P1_E1 NUM

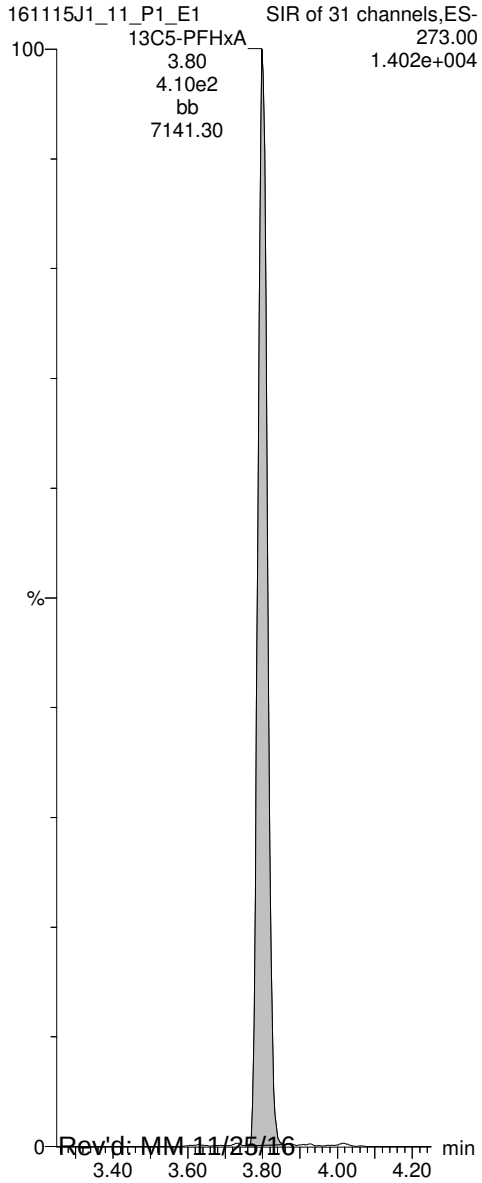
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_11_ugLTarget.qld

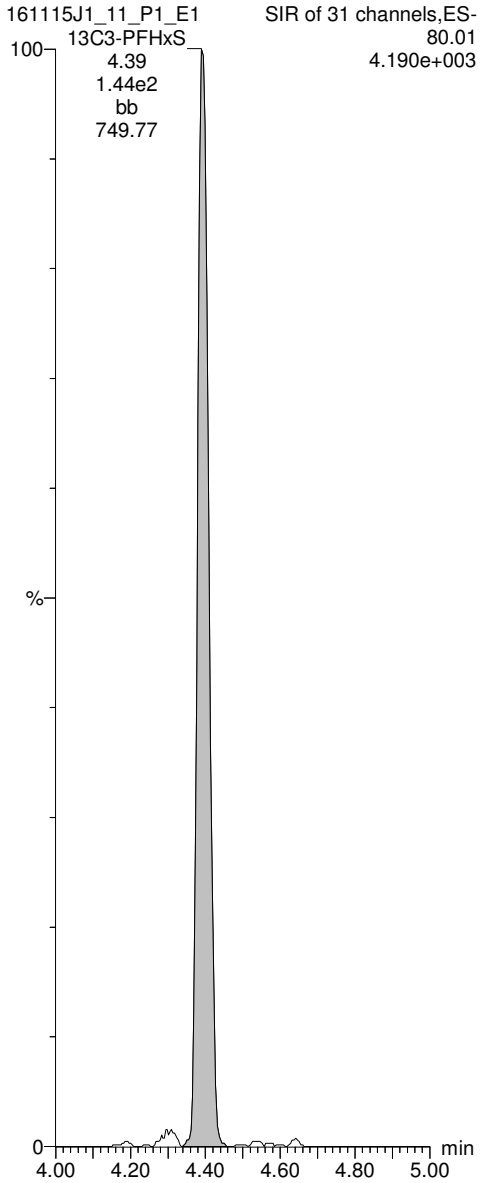
Last Altered: Wednesday, November 23, 2016 17:26:49 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:29:16 Pacific Standard Time

ID: 1601391-08@40x, Description: M14-09D_161031, Name: 161115J1_11.wiff, Date: 15-Nov-2016, Time: 17:44:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

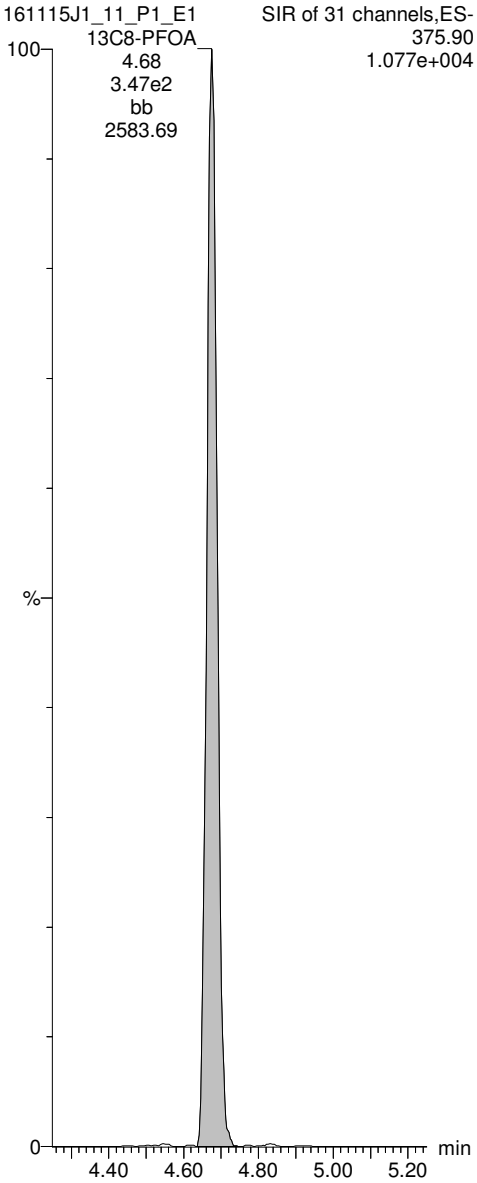
13C5-PFHxA



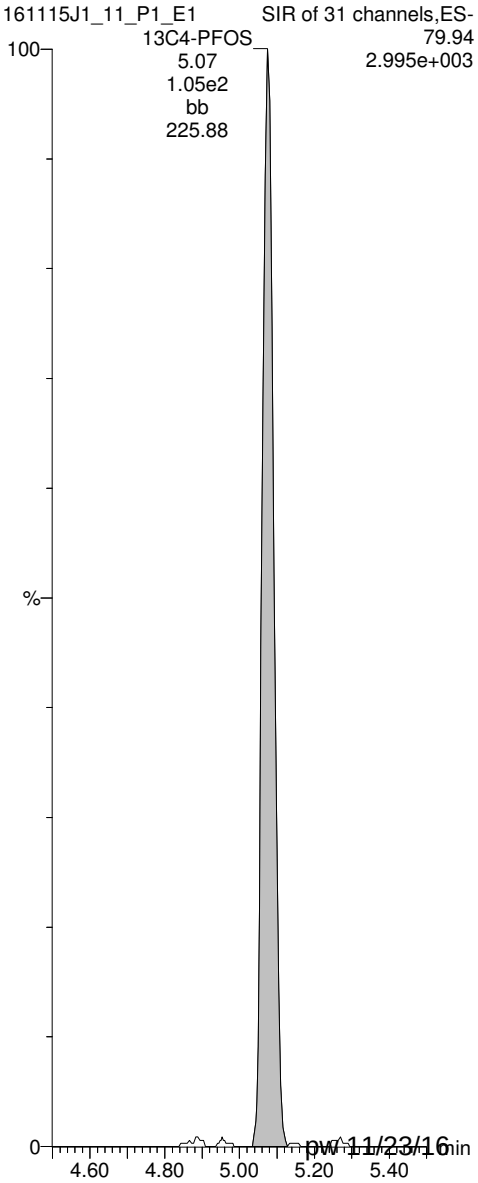
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_16_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:55:03 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:56:41 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MS1@40x, Description: Matrix Spike, Name: 161115J1_16.wiff, Date: 15-Nov-2016, Time: 18:46:07

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	3	PFBS	79.90	1.031e4	9.124e2		0.128	3.41	1190		
2	8	PFOA	368.90	2.168e5	1.174e3		0.128	4.68	*		
3	10	PFOS	79.92	7.785e4	2.608e2		0.128	5.07	23300		
4	15	13C3-PFBS	79.95	9.124e2	1.370e3	0.531	0.128	3.41	123	125	
5	16	13C2-PFHxA	269.90	5.740e2	1.370e3	0.905	0.128	3.81	45.3	116	
6	17	13C4-PFHpA	321.90	1.259e3	1.370e3	0.770	0.128	4.28	117	119	
7	18	18O2-PFHxS	102.90	1.316e2	3.924e2	0.276	0.128	4.40	119	122	
8	19	13C2-6:2 FTS	408.90	3.801e2	1.128e3	0.219	0.128	4.64	151	154	
9	20	13C2-PFOA	369.90	1.174e3	1.128e3	0.663	0.128	4.68	154	157	H
10	21	13C5-PFNA	422.90	8.110e2	8.934e2	1.019	0.128	5.01	87.2	89.1	
11	22	13C8-PFOS	79.93	2.608e2	2.829e2	0.921	0.128	5.07	97.9	100	
12	25	13C4-PFBA	171.90	1.545e3	1.545e3	1.000	0.128	1.91	97.9	100	
13	26	13C5-PFHxA	273.00	1.370e3	1.370e3	1.000	0.128	3.81	97.9	100	
14	27	13C3-PFHxS	80.01	3.924e2	3.924e2	1.000	0.128	4.40	97.9	100	
15	28	13C8-PFOA	375.90	1.128e3	1.128e3	1.000	0.128	4.68	97.9	100	
16	29	13C4-PFOS	79.94	2.829e2	2.829e2	1.000	0.128	5.07	97.9	100	
17	30	13C9-PFNA	427.00	8.934e2	8.934e2	1.000	0.128	5.01	97.9	100	
18	31	13C6-PFDA	474.00	4.584e2	4.584e2	1.000	0.128	5.30	97.9	100	
19	32	Total PFBS	79.90		9.124e2		0.128		1220		
20	34	Total PFOA	368.90		1.174e3		0.128		103 *		
21	35	Total PFOS	79.92		2.608e2		0.128		43800		

*Report from ug/L Targeting

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_16_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:55:03 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:56:41 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MS1@40x, Description: Matrix Spike, Name: 161115J1_16.wiff, Date: 15-Nov-2016, Time: 18:46:07

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.41	10307.111	912.435	1189.1
2	32	Total PFBS	79.90	3.28	204.773	912.435	27.9

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	113681.914	131.572	16932.9
2	33	Total PFHxS	79.91	4.31	25068.895	131.572	4980.8
3	33	Total PFHxS	79.91	4.28	8789.404	131.572	1910.1
4	33	Total PFHxS	79.91	4.19	301.018	131.572	69.2

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	216789.250	1174.050	
2	34	Total PFOA	368.90	4.59	76292.258	1174.050	
3	34	Total PFOA	368.90	4.47	1578.192	1174.050	102.6

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.96	62967.801	260.830	18884.3
2	35	Total PFOS	79.92	4.87	5393.414	260.830	1616.8
3	10	PFOS	79.92	5.07	77852.656	260.830	23348.5

Vista Analytical Laboratory Q1

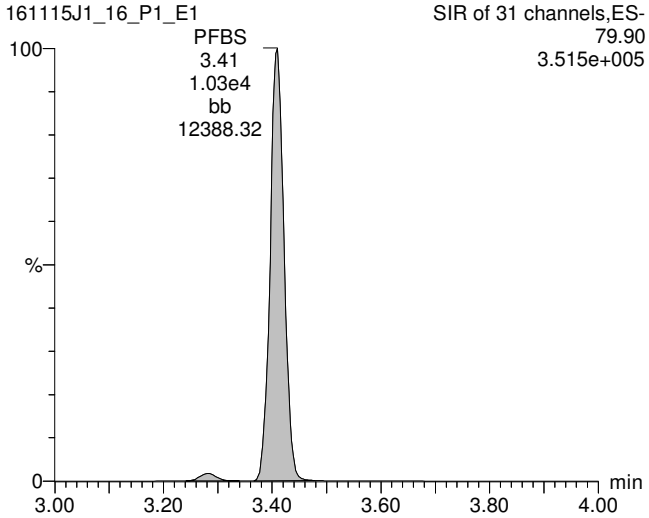
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_16_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:55:03 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:56:41 Pacific Standard Time

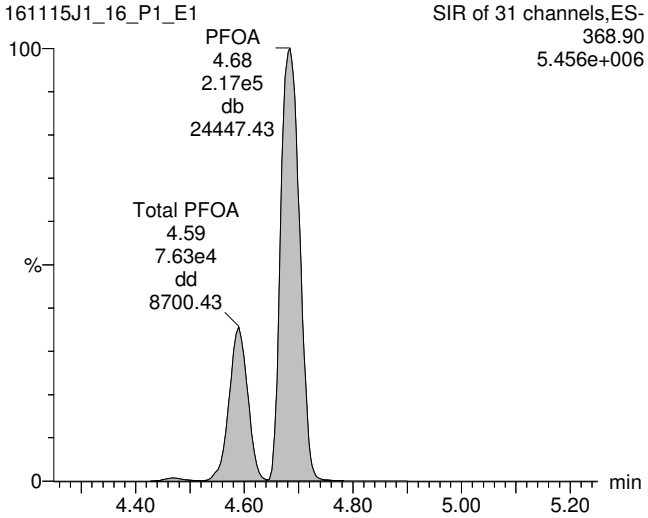
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MS1@40x, Description: Matrix Spike, Name: 161115J1_16.wiff, Date: 15-Nov-2016, Time: 18:46:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

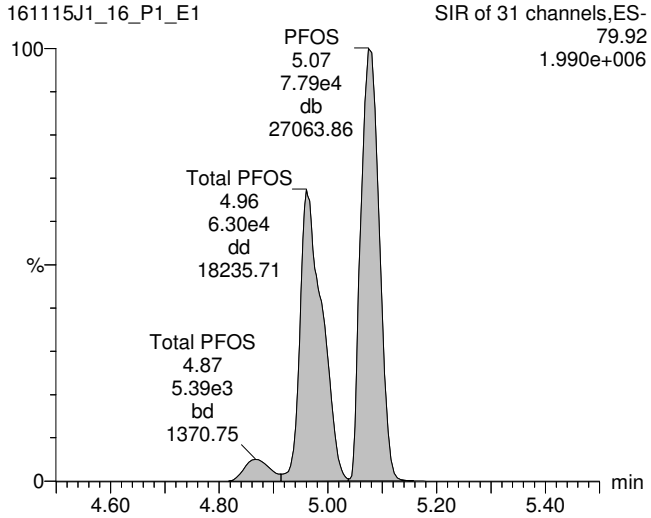
Total PFBS



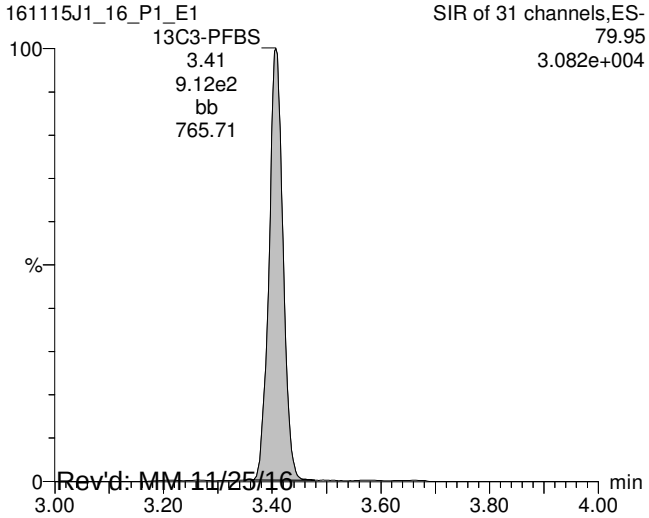
Total PFOA



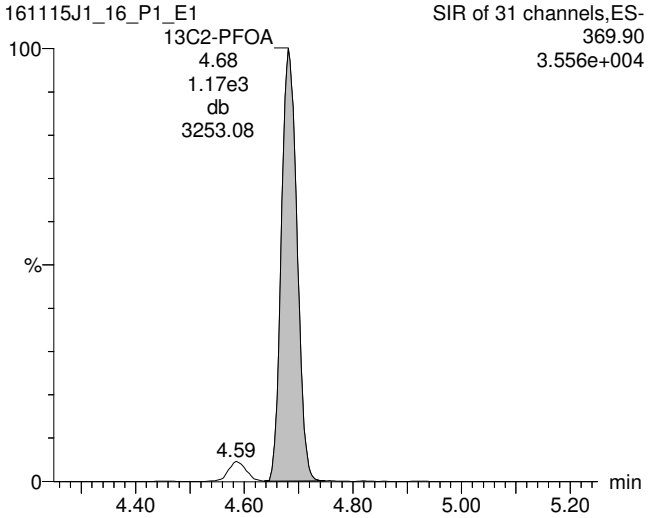
Total PFOS



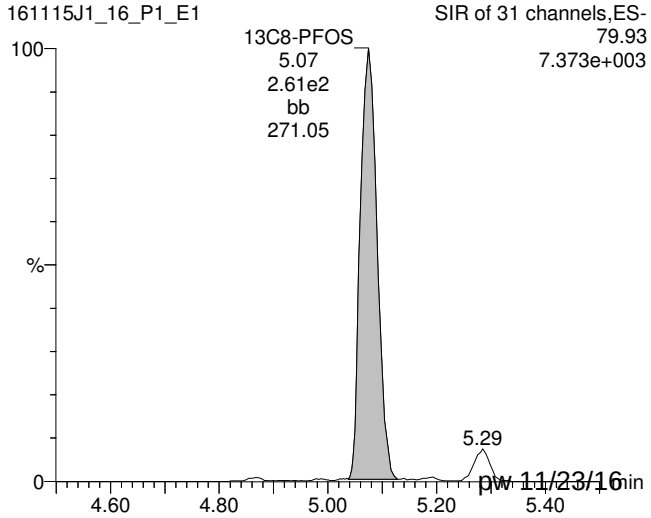
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - 161115J1_16_ngLTarget.qld

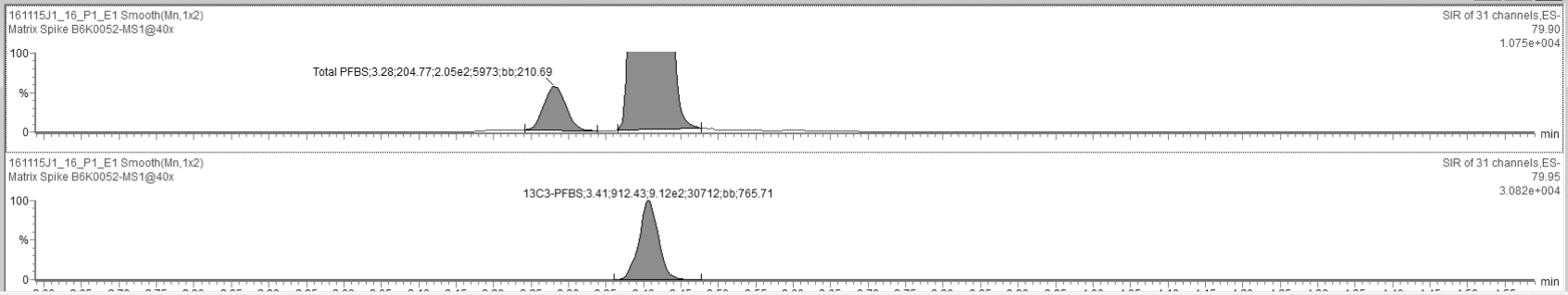
File Edit View Display Processing Window Help

161115J1_16_P1_E1 - B6K0052-MS1@40x - Matrix Spike

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	216.92733	0.565			2.012e2		5.28	12	24			1.001	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
13	13C3-PFBA	98.045250	0.290	100.2		1.384e3	0.894	1.91	13	25			1.002	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
14	13C3-PFPeA	120.70377	0.385	123.3		1.598e3	0.945	3.11	14	26			0.818	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
15	13C3-PFBS	122.74770	0.407	125.4		9.124e2	0.531	3.41	15	26			0.895	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
16	13C2-PFHxA	45.322778	0.0133	115.8		5.740e2	0.905	3.81	16	26			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
17	13C4-PFHpA	116.80783	0.0483	119.3		1.259e3	0.770	4.28	17	26			1.126	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
18	18O2-PFHxS	118.91375	0.733	121.5		1.316e2	0.276	4.40	18	27			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
19	13C2-6:2 FTS	150.77201	0.0000...	154.1		3.801e2	0.219	4.64	19	28			0.991	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
20	13C2-PFOA	153.52889	0.127	156.9		1.174e3	0.663	4.68	20	28			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
21	13C5-PFNA	87.153796	0.0137	89.1		8.110e2	1.019	5.01	21	30			1.001	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
22	13C8-PFOS	97.938312	0.947	100.1		2.608e2	0.921	5.07	22	29			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
23	13C2-PFDA	77.314104	0.0000...	79.0		3.211e2	0.887	5.30	23	31			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
24	13C2-8:2 FTS	70.329506	0.0000...	71.9		8.948e1	0.272	5.28	24	31			0.996	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
25	13C4-PFBA	97.870341	0.184	100.0		1.545e3	1.000	1.91	25	25			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
26	13C5-PFHxA	97.870341	0.0615	100.0		1.370e3	1.000	3.81	26	26			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
27	13C3-PFHxS	97.870341	0.167	100.0		3.924e2	1.000	4.40	27	27			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
28	13C8-PFOA	97.870341	0.0896	100.0		1.128e3	1.000	4.68	28	28			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
29	13C4-PFOS	97.870341	0.315	100.0		2.829e2	1.000	5.07	29	29			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
30	13C9-PFNA	97.870341	0.0000...	100.0		8.934e2	1.000	5.01	30	30			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
31	13C6-PFDA	97.870341	0.0642	100.0		4.584e2	1.000	5.30	31	31			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
32	Total PFBS	1216.9631							32					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
33	Total PFHxS	23893.041							33					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
34	Total PFOA	102.56971							34					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
35	Total PFOS	43849.566							35					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.41	3.512e5		1.031e4				1.031e4	1189.1	
2	Total PFBS	3.28	5.973e3		2.048e2				2.048e2	27.854	

Chromatogram



Ready 161115J1_16_P1_E1 NUM

TargetLynx - 161115J1_16_ngLTarget.qld

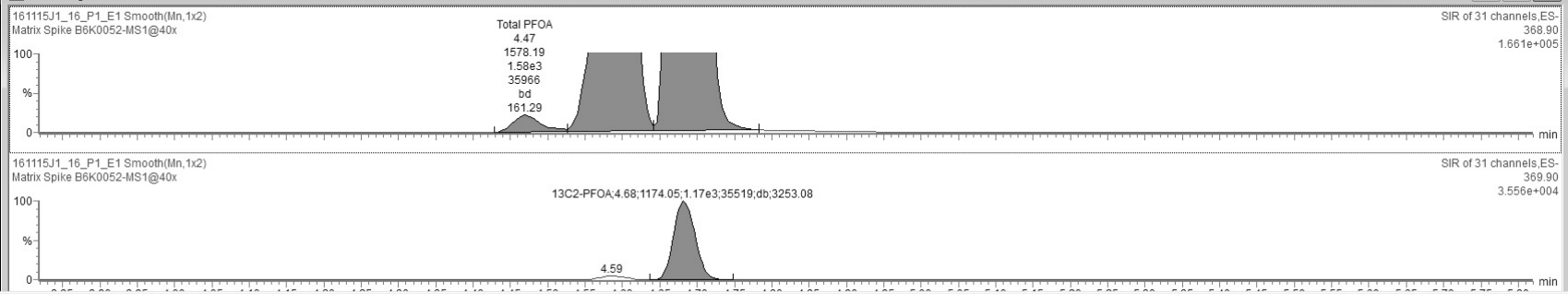
File Edit View Display Processing Window Help

161115J1_16_P1_E1 - B6K0052-MS1@40x - Matrix Spike

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	216.92733	0.565			2.012e2		5.28	12	24			1.001	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
13	13C3-PFBA	98.045250	0.290	100.2		1.384e3	0.894	1.91	13	25			1.002	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
14	13C3-PFPeA	120.70377	0.385	123.3		1.598e3	0.945	3.11	14	26			0.818	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
15	13C3-PFBS	122.74770	0.407	125.4		9.124e2	0.531	3.41	15	26			0.895	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
16	13C2-PFHxA	45.322778	0.0133	115.8		5.740e2	0.905	3.81	16	26			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
17	13C4-PFHpA	116.80783	0.0483	119.3		1.259e3	0.770	4.28	17	26			1.126	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
18	18O2-PFHxS	118.91375	0.733	121.5		1.316e2	0.276	4.40	18	27			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
19	13C2-6:2 FTS	150.77201	0.0000...	154.1		3.801e2	0.219	4.64	19	28			0.991	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
20	13C2-PFOA	153.52889	0.127	156.9		1.174e3	0.663	4.68	20	28			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
21	13C5-PFNA	87.153796	0.0137	89.1		8.110e2	1.019	5.01	21	30			1.001	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
22	13C8-PFOS	97.938312	0.947	100.1		2.608e2	0.921	5.07	22	29			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
23	13C2-PFDA	77.314104	0.0000...	79.0		3.211e2	0.887	5.30	23	31			1.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
24	13C2-8:2 FTS	70.329506	0.0000...	71.9		8.948e1	0.272	5.28	24	31			0.996	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
25	13C4-PFBA	97.870341	0.184	100.0		1.545e3	1.000	1.91	25	25			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
26	13C5-PFHxA	97.870341	0.0615	100.0		1.370e3	1.000	3.81	26	26			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
27	13C3-PFHxS	97.870341	0.167	100.0		3.924e2	1.000	4.40	27	27			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
28	13C8-PFOA	97.870341	0.0896	100.0		1.128e3	1.000	4.68	28	28			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
29	13C4-PFOS	97.870341	0.315	100.0		2.829e2	1.000	5.07	29	29			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
30	13C9-PFNA	97.870341	0.0000...	100.0		8.934e2	1.000	5.01	30	30			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
31	13C6-PFDA	97.870341	0.0642	100.0		4.584e2	1.000	5.30	31	31			0.000	15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	YES
32	Total PFBS	1216.9631							32					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
33	Total PFHxS	23893.041							33					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
34	Total PFOA	102.56971							34					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO
35	Total PFOS	43849.566							35					15-Nov-16	18:46:07		B6K0052-M...	Matrix Spike	0.0	0.128	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.68	5.452e6		2.168e5				2.168e5		
2	Total PFOA	4.59	1.940e6		7.629e4				7.629e4		

Chromatogram



Ready 161115J1_16_P1_E1 NUM

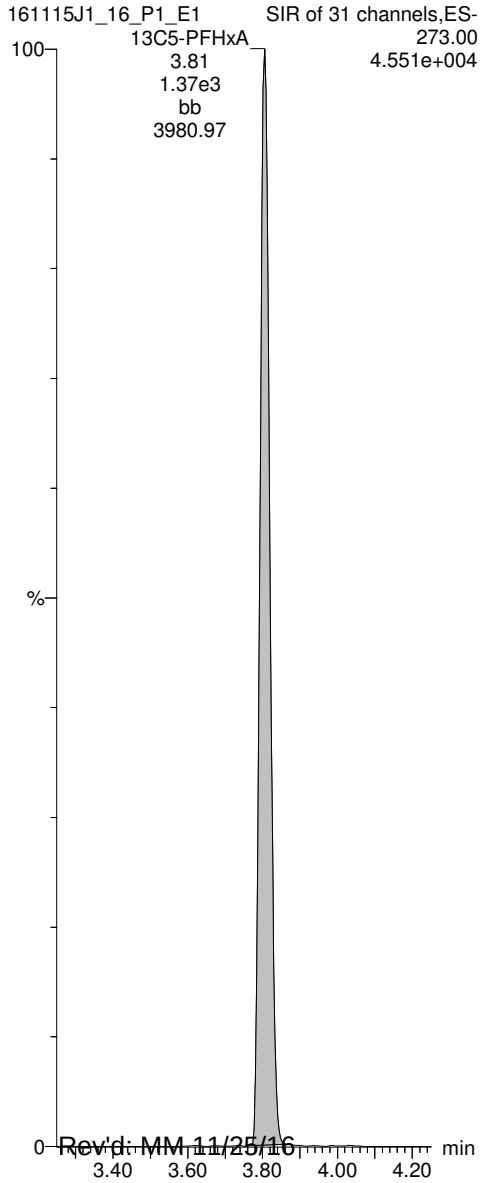
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_16_ngLTarget.qld

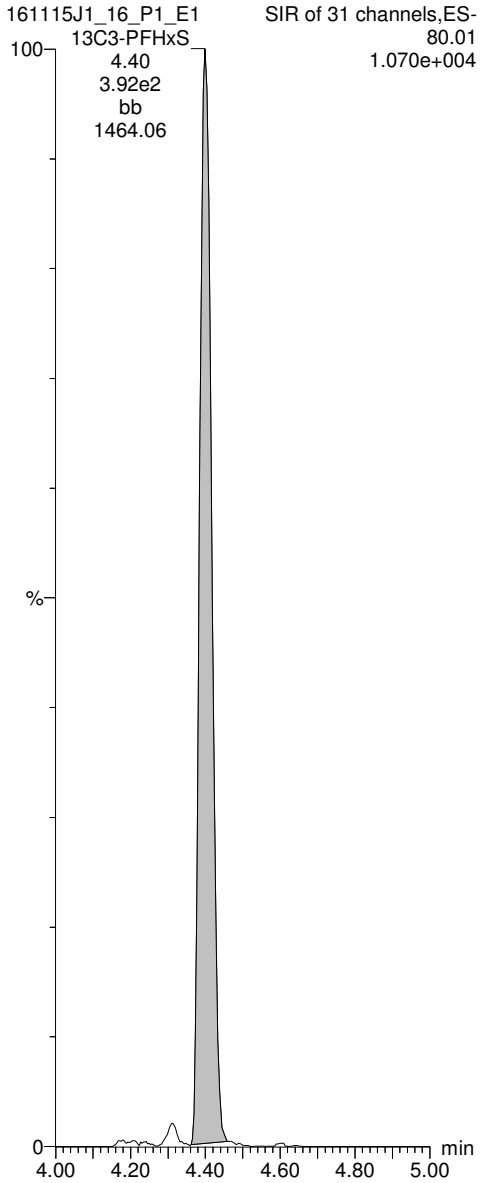
Last Altered: Wednesday, November 23, 2016 17:55:03 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:56:41 Pacific Standard Time

ID: B6K0052-MS1@40x, Description: Matrix Spike, Name: 161115J1_16.wiff, Date: 15-Nov-2016, Time: 18:46:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

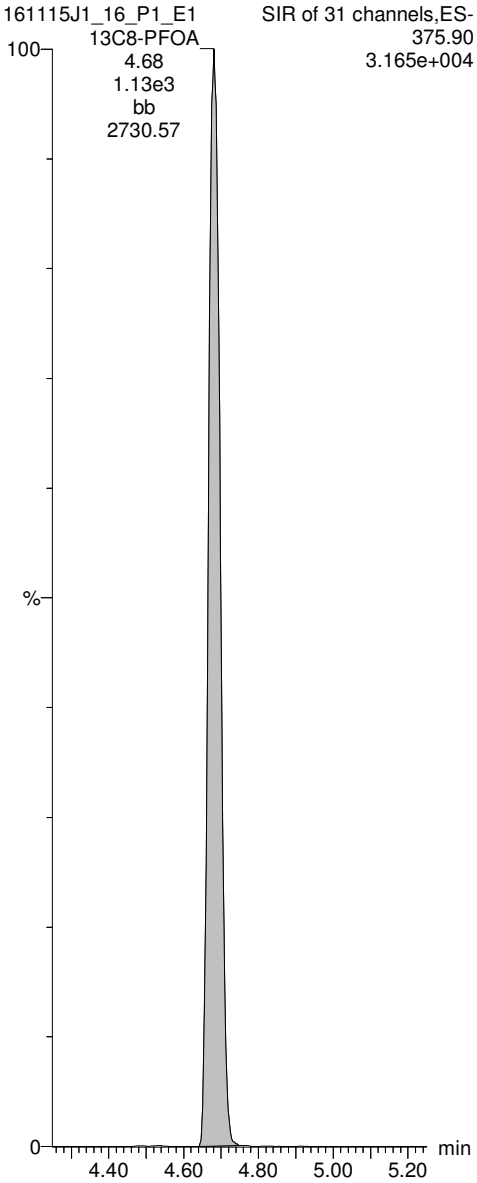
13C5-PFHxA



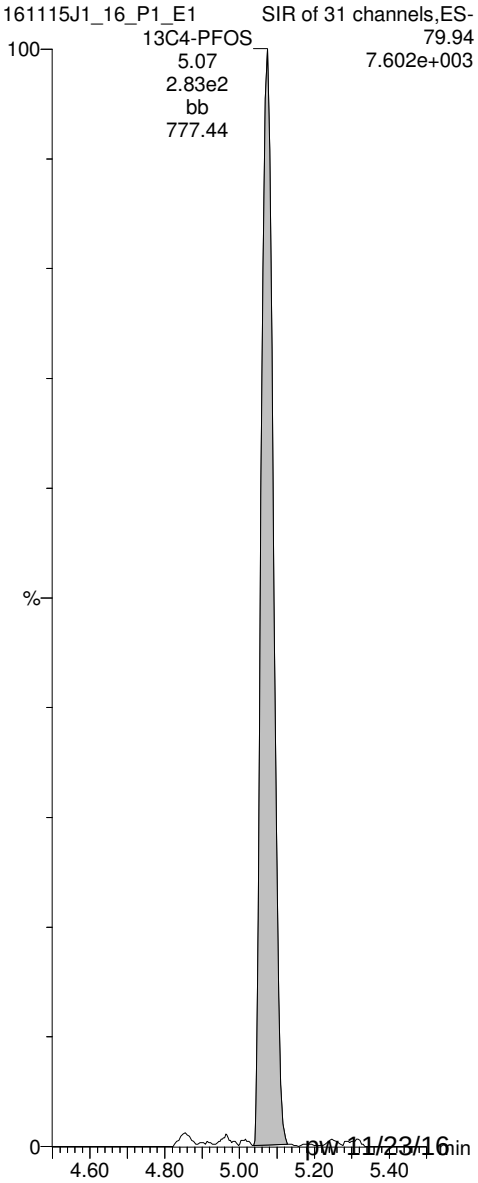
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_18_ugLTarget.qld

Last Altered: Friday, November 25, 2016 11:24:21 Pacific Standard Time
Printed: Friday, November 25, 2016 11:25:10 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MSD1@40x, Description: Matrix Spike Dup, Name: 161115J1_18.wiff, Date: 15-Nov-2016, Time: 19:10:37

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	1.932e5	1.084e3		0.127	4.67	13.2		
2	20	13C2-PFOA	369.90	1.084e3	1.007e3	0.663	0.127	4.67	0.160	162	H
3	28	13C8-PFOA	375.90	1.007e3	1.007e3	1.000	0.127	4.67	0.0987	100	
4	34	Total PFOA	368.90		1.084e3		0.127		17.5		

Target = ug/L

Rev'd: MM 11/25/16 pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_18_ugLTarget.qld

Last Altered: Friday, November 25, 2016 11:24:21 Pacific Standard Time
Printed: Friday, November 25, 2016 11:25:10 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MSD1@40x, Description: Matrix Spike Dup, Name: 161115J1_18.wiff, Date: 15-Nov-2016, Time: 19:10:37

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	8790.729	761.535	
2	32	Total PFBS	79.90	3.28	174.253	761.535	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	110720.406	124.687	27.1
2	33	Total PFHxS	79.91	4.30	32441.436	124.687	7.9
3	33	Total PFHxS	79.91	4.19	255.897	124.687	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.67	193225.797	1083.964	13.2
2	34	Total PFOA	368.90	4.58	66490.727	1083.964	4.3

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.95	60254.820	267.377	17.0
2	35	Total PFOS	79.92	4.86	5079.799	267.377	0.7
3	10	PFOS	79.92	5.07	83549.641	267.377	23.9

Vista Analytical Laboratory Q1

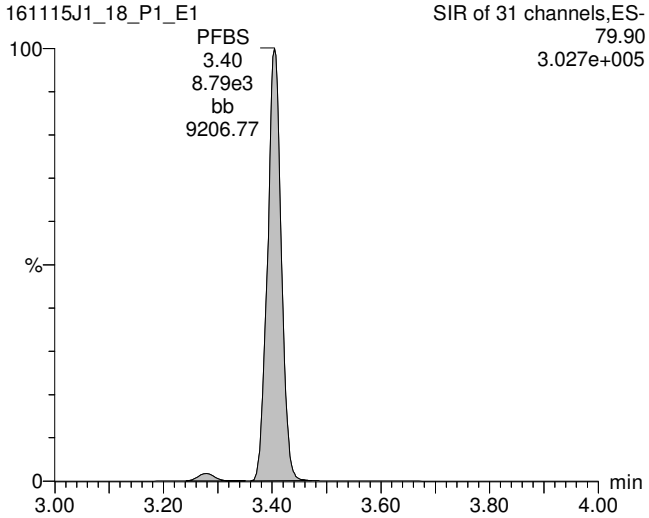
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_18_ugLTarget.qld

Last Altered: Friday, November 25, 2016 11:24:21 Pacific Standard Time
Printed: Friday, November 25, 2016 11:25:10 Pacific Standard Time

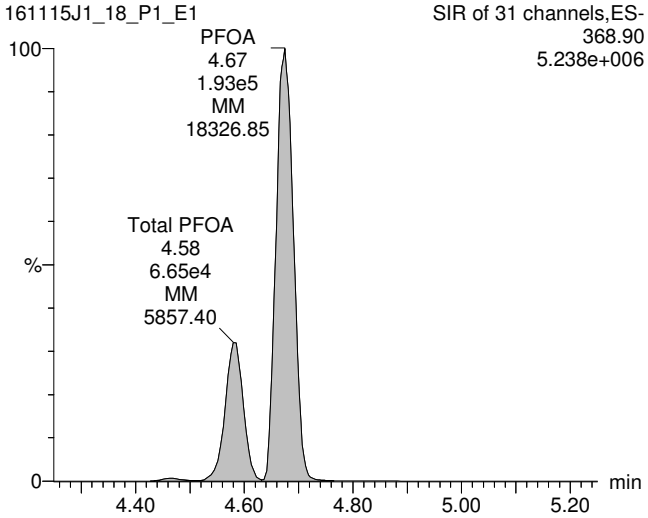
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MSD1@40x, Description: Matrix Spike Dup, Name: 161115J1_18.wiff, Date: 15-Nov-2016, Time: 19:10:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

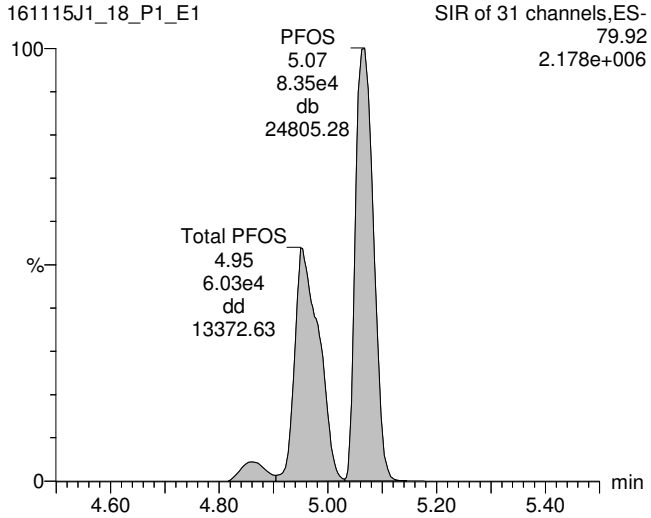
Total PFBS



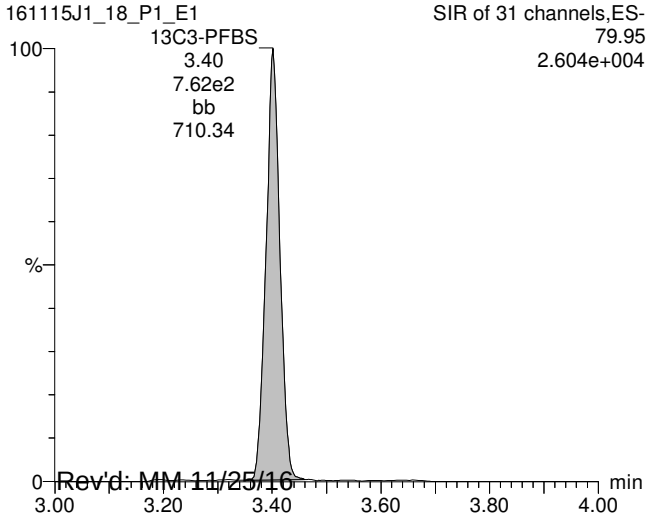
Total PFOA



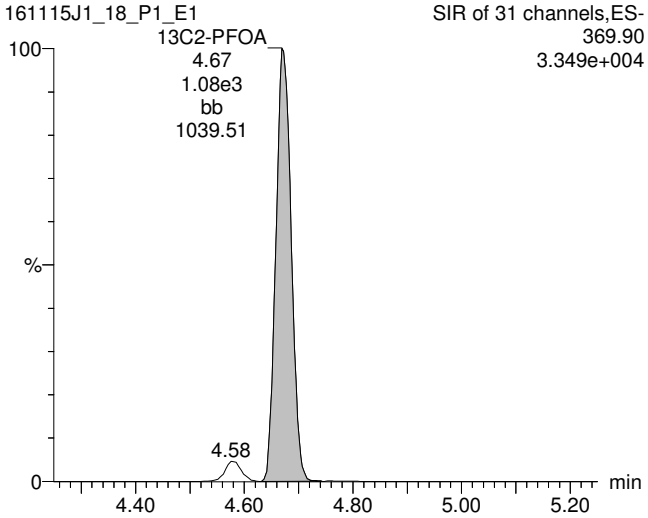
Total PFOS



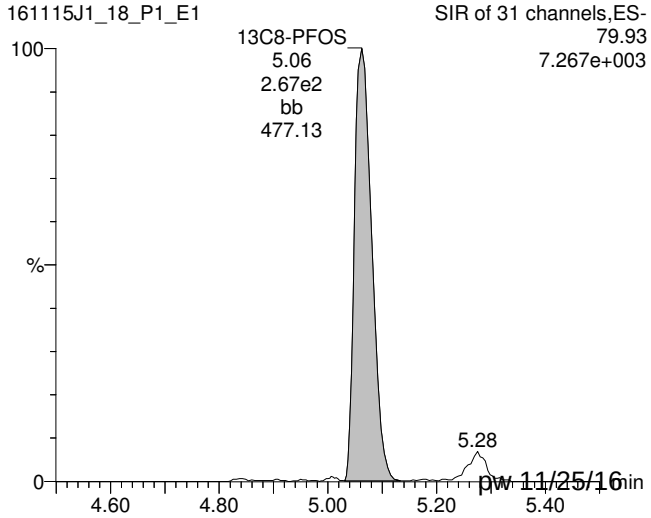
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_18_ugLTarget.qld *

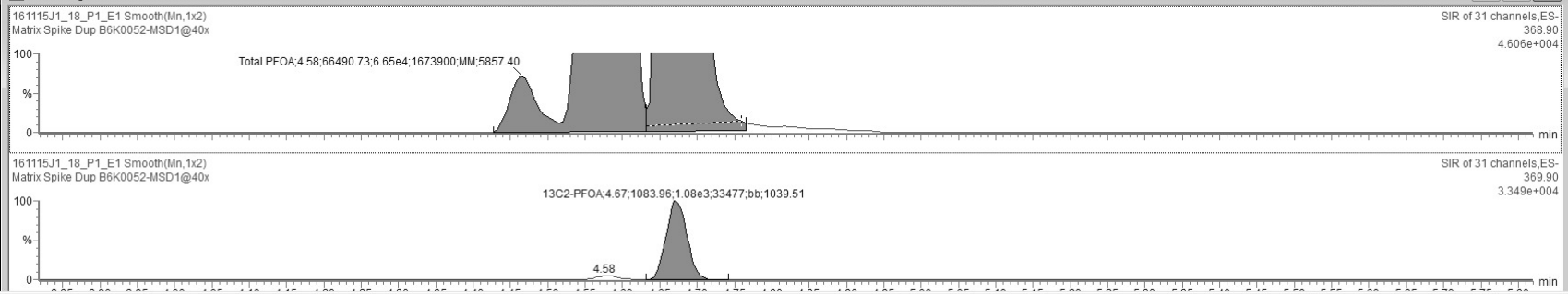
File Edit View Display Processing Window Help

161115J1_18_P1_E1 - B6K0052-MSD1@40x - Matrix Spike Dup

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	0.73908853	0.569			2.213e2		5.27	12	24			1.001	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
13	13C3-PFBA	0.0947412...	0.000508	96.0		1.129e3	0.894	1.92	13	25			1.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
14	13C3-PFPeA	0.10914544	0.000525	110.6		1.346e3	0.945	3.11	14	26			0.818	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
15	13C3-PFBS	0.10997942	0.000400	111.5		7.615e2	0.531	3.40	15	26			0.896	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
16	13C2-PFHxA	0.0428250...	0.0000...	108.5		5.052e2	0.905	3.80	16	26			1.001	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
17	13C4-PFHpA	0.10238584	0.0000...	103.8		1.028e3	0.770	4.28	17	26			1.127	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
18	18O2-PFHxS	0.11798096	0.000688	119.6		1.247e2	0.276	4.39	18	27			1.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
19	13C2-6:2 FTS	0.14826439	0.0000...	150.3		3.309e2	0.219	4.63	19	28			0.990	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
20	13C2-PFOA	0.16011259	0.000381	162.3		1.084e3	0.663	4.67	20	28			0.999	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
21	13C5-PFNA	0.0866690...	0.0000...	87.9		7.563e2	1.019	5.00	21	30			1.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
22	13C8-PFOS	0.0897848...	0.000472	91.0		2.674e2	0.921	5.06	22	29			1.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
23	13C2-PFDA	0.0806761...	0.000114	81.8		3.639e2	0.887	5.28	23	31			1.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
24	13C2-8:2 FTS	0.0828591...	0.0000...	84.0		1.145e2	0.272	5.26	24	31			0.996	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
25	13C4-PFBA	0.0986504...	0.000188	100.0		1.315e3	1.000	1.92	25	25			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
26	13C5-PFHxA	0.0986504...	0.0000...	100.0		1.287e3	1.000	3.80	26	26			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
27	13C3-PFHxS	0.0986504...	0.000246	100.0		3.778e2	1.000	4.39	27	27			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
28	13C8-PFOA	0.0986504...	0.0000...	100.0		1.007e3	1.000	4.67	28	28			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
29	13C4-PFOS	0.0986504...	0.000229	100.0		3.189e2	1.000	5.06	29	29			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
30	13C9-PFNA	0.0986504...	0.0000...	100.0		8.444e2	1.000	5.00	30	30			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
31	13C6-PFDA	0.0986504...	0.0000...	100.0		5.018e2	1.000	5.28	31	31			0.000	15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
32	Total PFBS								32					15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
33	Total PFHxS	34.914106							33					15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
34	Total PFOA	17.495814							34					15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
35	Total PFOS	41.577672							35					15-Nov-16	19:10:37		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.67	5.237e6		1.932e5				1.932e5	13.162	
2	Total PFOA	4.58	1.674e6		6.649e4				6.649e4	4.3334	

Chromatogram



Ready 161115J1_18_P1_E1 NUM

Rev'd: MM 11/25/16 pw 11/25/16

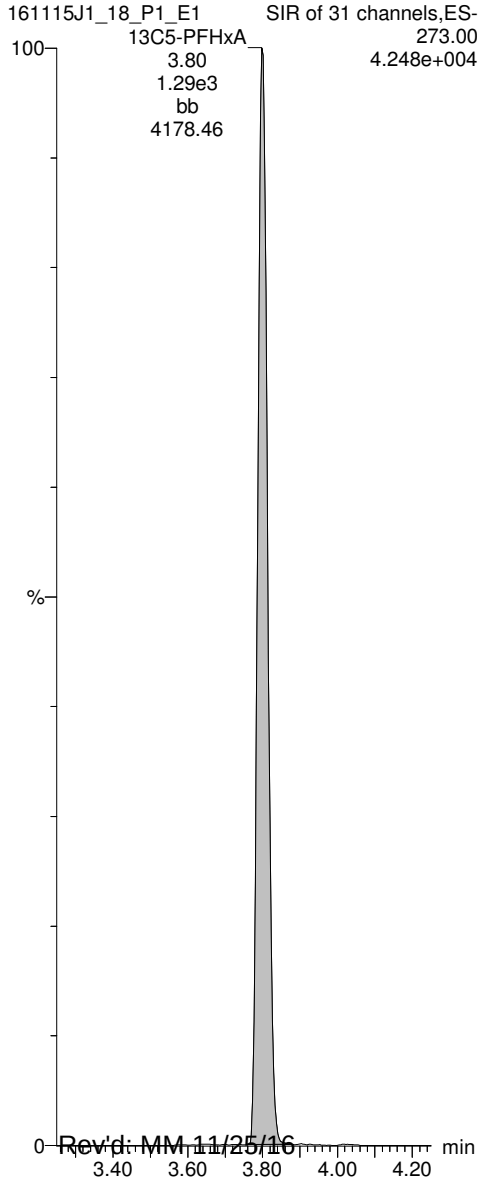
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_18_ugLTarget.qld

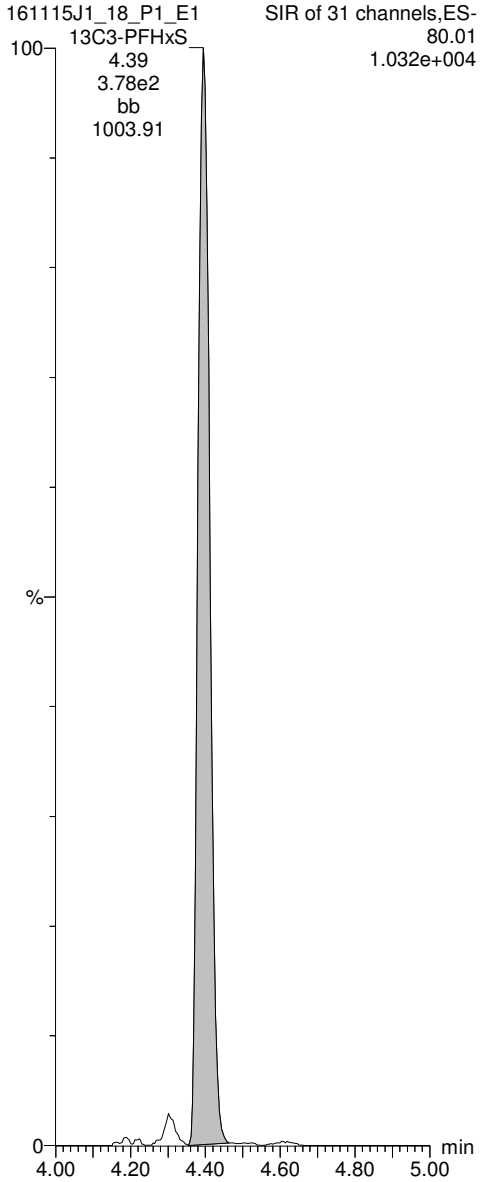
Last Altered: Friday, November 25, 2016 11:24:21 Pacific Standard Time
Printed: Friday, November 25, 2016 11:25:10 Pacific Standard Time

ID: B6K0052-MSD1@40x, Description: Matrix Spike Dup, Name: 161115J1_18.wiff, Date: 15-Nov-2016, Time: 19:10:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

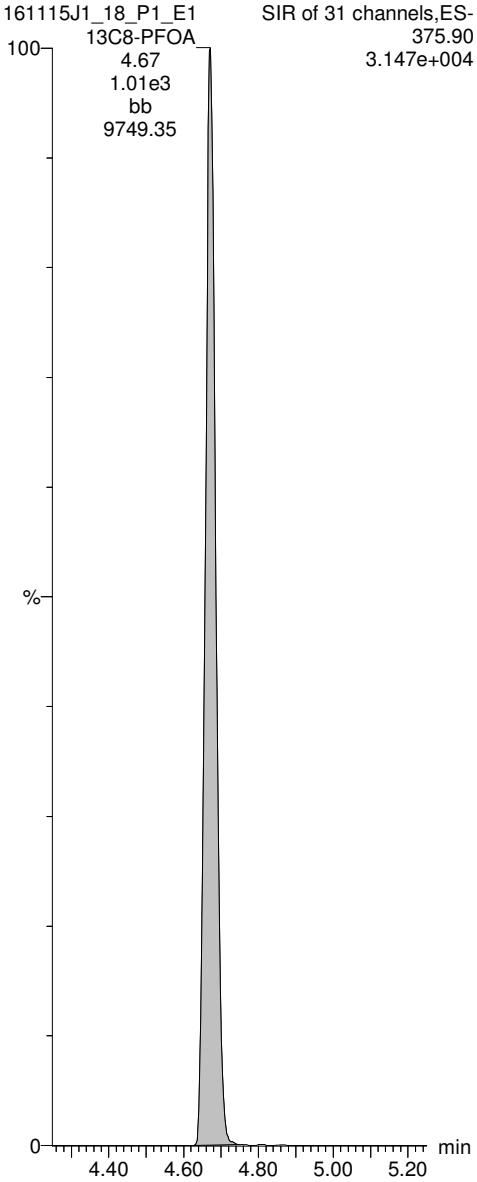
13C5-PFHxA



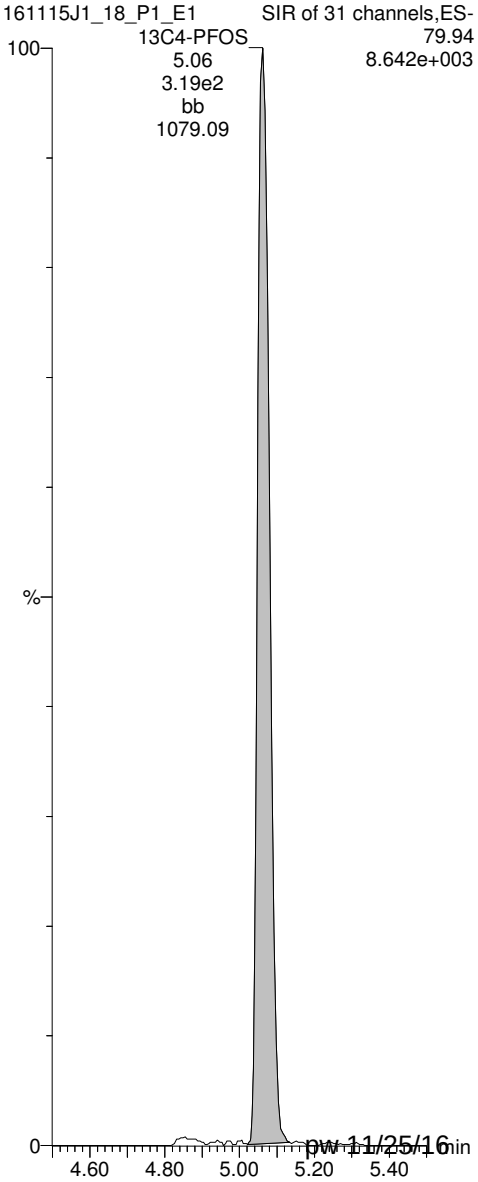
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_13_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:39:08 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:40:31 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.		%Rec	
1	3	PFBS	79.90	7.764e4	5.226e2		0.130	3.40	7420			
2	8	PFOA	368.90	3.842e5	1.494e3		0.130	4.69	*			
3	10	PFOS	79.92	2.510e5	1.539e2		0.130	5.07	125000	E		
4	15	13C3-PFBS	79.95	5.226e2	3.811e2	0.531	0.130	3.40	248		258	H
5	16	13C2-PFHxA	269.90	5.429e2	3.811e2	0.905	0.130	3.80	151		394	
6	17	13C4-PFHpA	321.90	5.041e2	3.811e2	0.770	0.130	4.28	165		172	
7	18	18O2-PFHxS	102.90	8.711e1	1.070e2	0.276	0.130	4.40	284		295	
8	19	13C2-6:2 FTS	408.90	2.953e2	2.233e2	0.219	0.130	4.64	581		605	
9	20	13C2-PFOA	369.90	1.494e3	2.233e2	0.663	0.130	4.68	970		1010	H
10	21	13C5-PFNA	422.90	6.773e2	7.416e2	1.019	0.130	5.00	86.1		89.6	
11	22	13C8-PFOS	79.93	1.539e2	1.504e2	0.921	0.130	5.06	107		111	
12	25	13C4-PFBA	171.90	1.090e3	1.090e3	1.000	0.130	1.91	96.1		100	
13	26	13C5-PFHxA	273.00	3.811e2	3.811e2	1.000	0.130	3.80	96.1		100	
14	27	13C3-PFHxS	80.01	1.070e2	1.070e2	1.000	0.130	4.39	96.1		100	
15	28	13C8-PFOA	375.90	2.233e2	2.233e2	1.000	0.130	4.67	96.1		100	
16	29	13C4-PFOS	79.94	1.504e2	1.504e2	1.000	0.130	5.06	96.1		100	
17	30	13C9-PFNA	427.00	7.416e2	7.416e2	1.000	0.130	5.00	96.1		100	
18	31	13C6-PFDA	474.00	6.905e2	6.905e2	1.000	0.130	5.28	96.1		100	
19	32	Total PFBS	79.90		5.226e2		0.130		7870			
20	34	Total PFOA	368.90		1.494e3		0.130		1600	*		
21	35	Total PFOS	79.92		1.539e2		0.130		302000			

* Report from ug/L Targeting

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_13_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:39:08 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:40:31 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	77635.648	522.562	7424.9
2	32	Total PFBS	79.90	3.28	1963.054	522.562	442.4
3	32	Total PFBS	79.90	3.21	30.311	522.562	6.0

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.69	384177.781	1494.264	
2	34	Total PFOA	368.90	4.59	308265.063	1494.264	
3	34	Total PFOA	368.90	4.47	19636.818	1494.264	1598.6

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.95	297378.719	153.909	148416.6
2	35	Total PFOS	79.92	4.86	55953.930	153.909	27925.0
3	10	PFOS	79.92	5.07	250953.688	153.909	125246.6

Vista Analytical Laboratory Q1

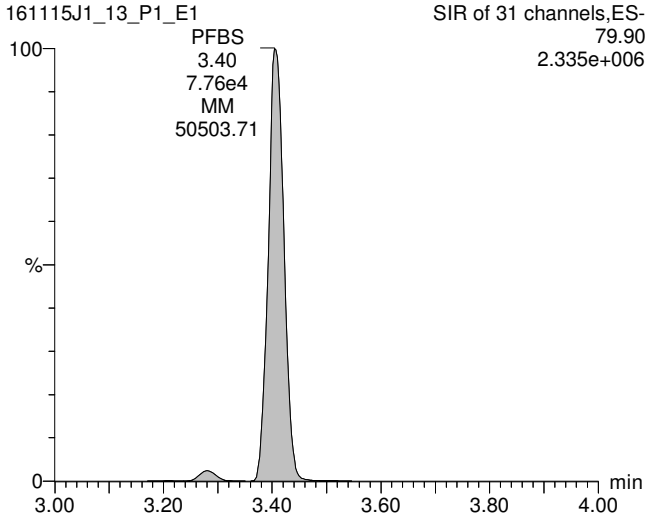
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_13_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:39:08 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:40:31 Pacific Standard Time

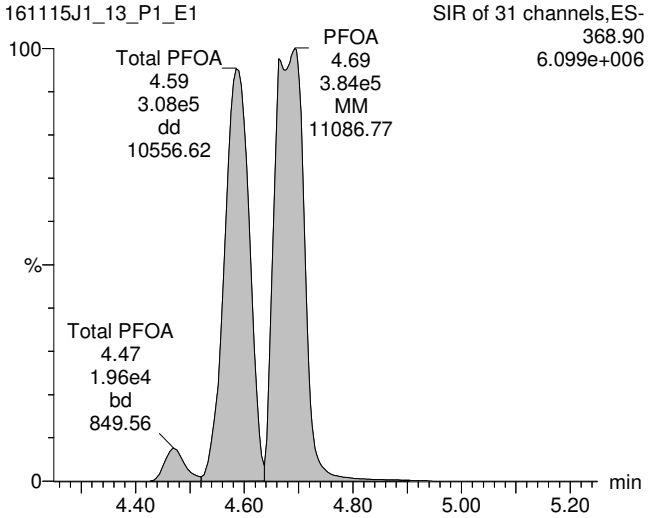
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23, Instrument: , Lab: ©PE-SCIEX, User: sciex

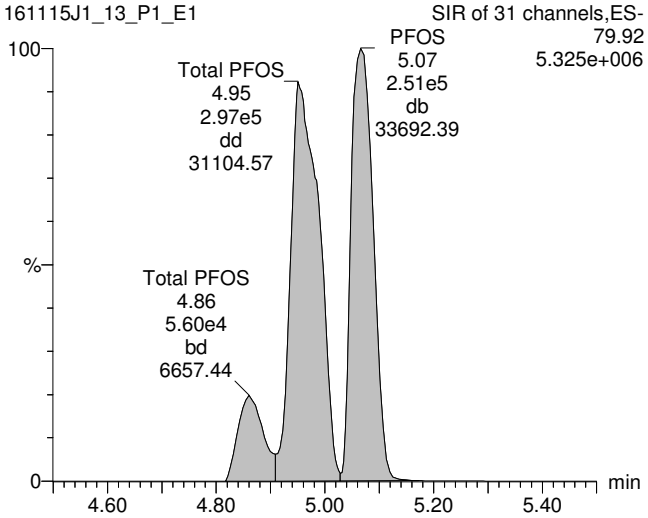
Total PFBS



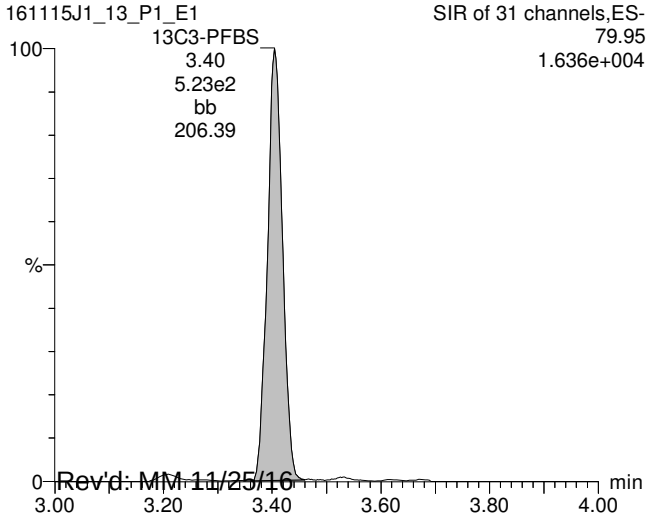
Total PFOA



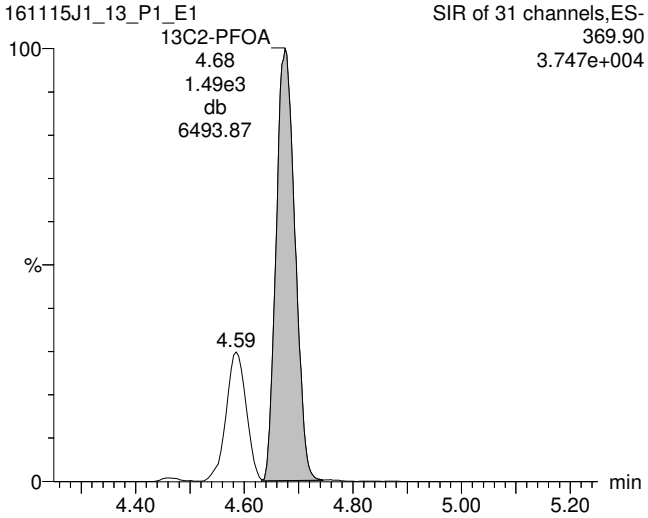
Total PFOS



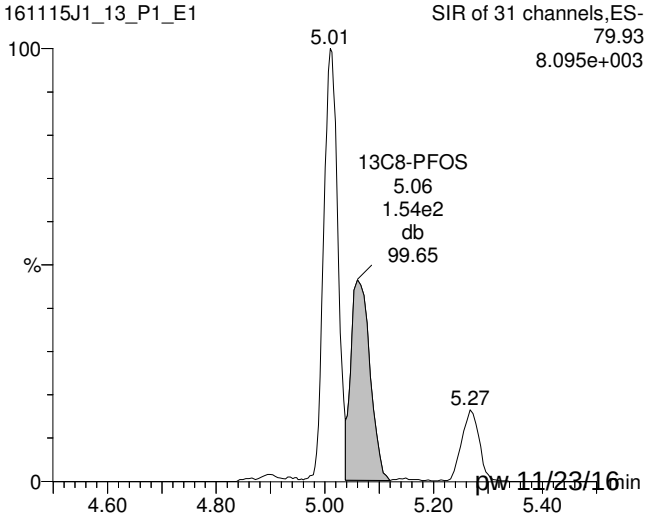
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - 161115J1_13_ngLTarget.qld *

File Edit View Display Processing Window Help

161115J1_13_P1_E1 - 1601391-09@40x - M14-09S_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	512.74605	0.764			6.547e2		5.27	12	24			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
13	13C3-PFBA	95.594508	0.441	99.5		9.696e2	0.894	1.91	13	25			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
14	13C3-PFPeA	256.40080	1.42	266.8		9.612e2	0.945	3.11	14	26			0.819	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
15	13C3-PFBS	248.22465	3.40	258.3		5.226e2	0.531	3.40	15	26			0.896	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
16	13C2-PFHxA	151.35119	0.0965	393.7		5.429e2	0.905	3.80	16	26			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
17	13C4-PFHpA	165.19465	0.117	171.9		5.041e2	0.770	4.28	17	26			1.128	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
18	18O2-PFHxS	283.51158	2.22	295.0		8.711e1	0.276	4.40	18	27			1.002	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
19	13C2-6:2 FTS	581.14336	1.46	604.7		2.953e2	0.219	4.64	19	28			0.992	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
20	13C2-PFOA	969.57435	0.380	1008.9		1.494e3	0.663	4.68	20	28			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
21	13C5-PFNA	86.089502	0.0524	89.6		6.773e2	1.019	5.00	21	30			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
22	13C8-PFOS	106.77524	2.57	111.1		1.539e2	0.921	5.06	22	29			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
23	13C2-PFDA	79.717682	0.0324	83.0		5.079e2	0.887	5.29	23	31			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
24	13C2-8:2 FTS	72.551532	1.58	75.5		1.416e2	0.272	5.27	24	31			0.997	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
25	13C4-PFBA	96.102099	0.0757	100.0		1.090e3	1.000	1.91	25	25			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
26	13C5-PFHxA	96.102099	0.541	100.0		3.811e2	1.000	3.80	26	26			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
27	13C3-PFHxS	96.102099	0.528	100.0		1.070e2	1.000	4.39	27	27			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
28	13C8-PFOA	96.102099	0.447	100.0		2.233e2	1.000	4.67	28	28			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
29	13C4-PFOS	96.102099	0.526	100.0		1.504e2	1.000	5.06	29	29			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
30	13C9-PFNA	96.102099	0.201	100.0		7.416e2	1.000	5.00	30	30			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
31	13C6-PFDA	96.102099	0.0583	100.0		6.905e2	1.000	5.28	31	31			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
32	Total PFBS	7873.2810							32					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
33	Total PFHxS								33					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
34	Total PFOA	1598.6364							34					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
35	Total PFOS	301588.24							35					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.40	2.334e6		7.764e4				7.764e4	7424.9	
2	Total PFBS	3.28	5.685e4		1.963e3				1.963e3	442.36	

Chromatogram

161115J1_13_P1_E1 Smooth(Mn,1x2)
M14-09S_161031 1601391-09@40x

SIR of 31 channels,ES-
79.90
5.525e+003

Total PFBS
3.21
30.31
3.03e1
890
bd
19.26

100
%
0
min

161115J1_13_P1_E1 Smooth(Mn,1x2)
M14-09S_161031 1601391-09@40x

SIR of 31 channels,ES-
79.95
1.636e+004

13C3-PFBS;3.40;522.56;5.23e2;16325;bb;206.39

100
%
0
min

Ready

161115J1_13_P1_E1

NUM

TargetLynx - 161115J1_13_ngLTarget.qld *

File Edit View Display Processing Window Help

161115J1_13_P1_E1 - 1601391-09@40x - M14-09S_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	512.74605	0.764			6.547e2		5.27	12	24			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
13	13C3-PFBA	95.594508	0.441	99.5		9.696e2	0.894	1.91	13	25			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
14	13C3-PFPeA	256.40080	1.42	266.8		9.612e2	0.945	3.11	14	26			0.819	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
15	13C3-PFBS	248.22465	3.40	258.3		5.226e2	0.531	3.40	15	26			0.896	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
16	13C2-PFHxA	151.35119	0.0965	393.7		5.429e2	0.905	3.80	16	26			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
17	13C4-PFHpA	165.19465	0.117	171.9		5.041e2	0.770	4.28	17	26			1.128	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
18	18O2-PFHxS	283.51158	2.22	295.0		8.711e1	0.276	4.40	18	27			1.002	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
19	13C2-6:2 FTS	581.14336	1.46	604.7		2.953e2	0.219	4.64	19	28			0.992	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
20	13C2-PFOA	969.57435	0.380	1008.9		1.494e3	0.663	4.68	20	28			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
21	13C5-PFNA	86.089502	0.0524	89.6		6.773e2	1.019	5.00	21	30			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
22	13C8-PFOS	106.77524	2.57	111.1		1.539e2	0.921	5.06	22	29			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
23	13C2-PFDA	79.717682	0.0324	83.0		5.079e2	0.887	5.29	23	31			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
24	13C2-8:2 FTS	72.551532	1.58	75.5		1.416e2	0.272	5.27	24	31			0.997	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
25	13C4-PFBA	96.102099	0.0757	100.0		1.090e3	1.000	1.91	25	25			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
26	13C5-PFHxA	96.102099	0.541	100.0		3.811e2	1.000	3.80	26	26			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
27	13C3-PFHxS	96.102099	0.528	100.0		1.070e2	1.000	4.39	27	27			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
28	13C8-PFOA	96.102099	0.447	100.0		2.233e2	1.000	4.67	28	28			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
29	13C4-PFOS	96.102099	0.526	100.0		1.504e2	1.000	5.06	29	29			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
30	13C9-PFNA	96.102099	0.201	100.0		7.416e2	1.000	5.00	30	30			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
31	13C6-PFDA	96.102099	0.0583	100.0		6.905e2	1.000	5.28	31	31			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	YES
32	Total PFBS	7873.2810							32					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
33	Total PFHxS								33					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
34	Total PFOA	1598.6364							34					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
35	Total PFOS	301588.24							35					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.69	6.099e6		3.842e5				3.842e5		
2	Total PFOA	4.59	5.808e6		3.083e5				3.083e5		

Chromatogram

161115J1_13_P1_E1 Smooth(Mn,1x2)
M14-09S_161031 1601391-09@40x

Total PFOA
4.47
19636.82
1.96e4
467374
bd
849.56

SIR of 31 channels,ES-
368.90
1.722e+006

100
%
0
min

161115J1_13_P1_E1 Smooth(Mn,1x2)
M14-09S_161031 1601391-09@40x

13C2-PFOA;4.68;1494.26;1.49e3;37389;db;6493.87

4.59

SIR of 31 channels,ES-
369.90
3.747e+004

100
%
0
min

Ready

161115J1_13_P1_E1

NUM

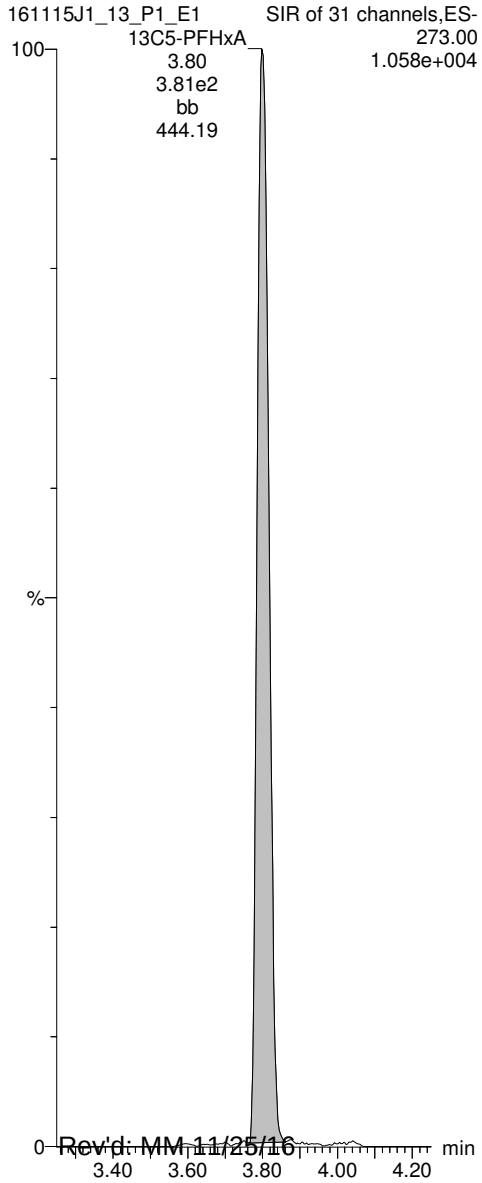
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_13_ngLTarget.qld

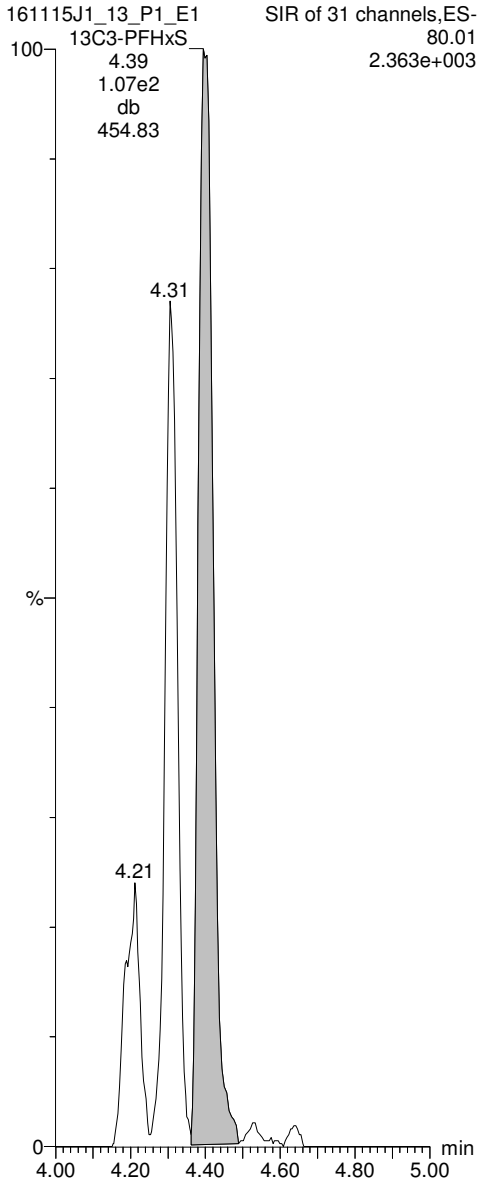
Last Altered: Wednesday, November 23, 2016 17:39:08 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:40:31 Pacific Standard Time

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23, Instrument: , Lab: ©PE-SCIEX, User: sciex

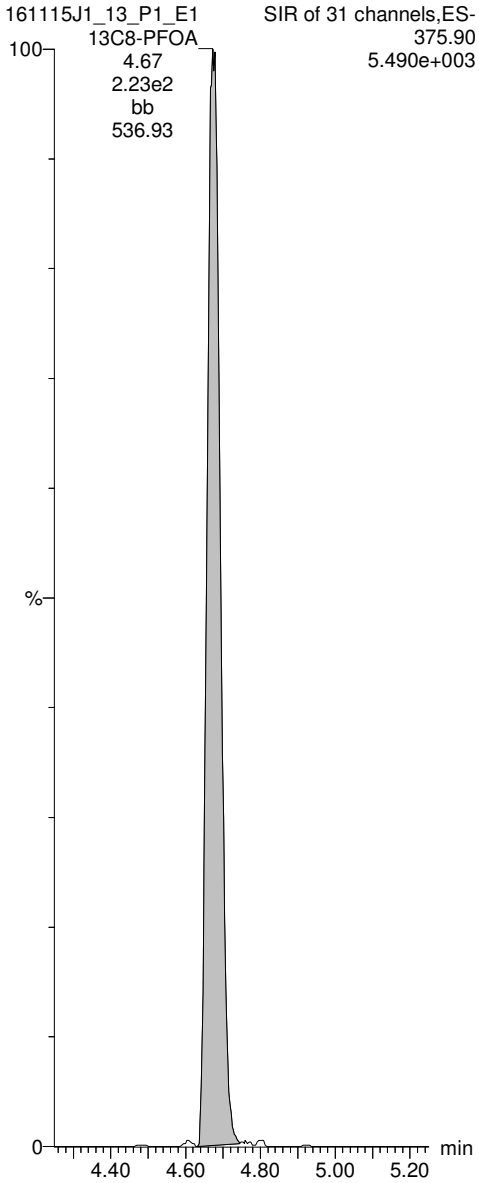
13C5-PFHxA



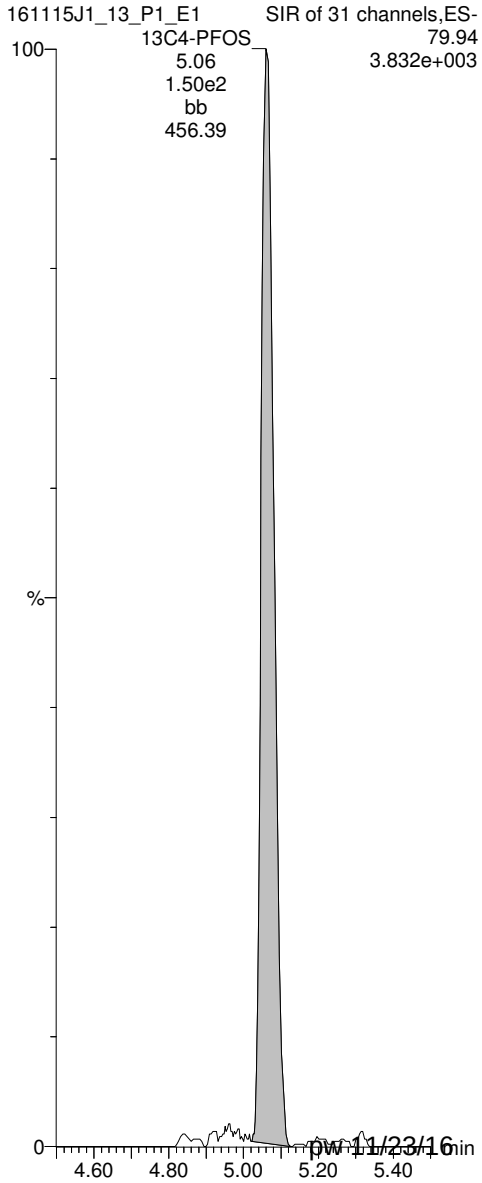
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Wednesday, November 23, 2016 17:43:56 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:44:41 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	3.794e5	1.494e3		0.130	4.69	18.4		
2	20	13C2-PFOA	369.90	1.494e3	2.233e2	0.663	0.130	4.68	0.970	1010	H
3	28	13C8-PFOA	375.90	2.233e2	2.233e2	1.000	0.130	4.67	0.0961	100	
4	34	Total PFOA	368.90		1.494e3		0.130		34.3		

Target = ug/L

Rev'd: MM 11/25/16 pw 11/23/16

Quantify Totals Report MassLynx 4.1 SCN815
Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Wednesday, November 23, 2016 17:43:56 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:44:41 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	77379.078	522.562	17.6
2	32	Total PFBS	79.90	3.28	1963.054	522.562	
3	32	Total PFBS	79.90	3.21	30.311	522.562	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.69	379390.938	1494.264	18.4
2	34	Total PFOA	368.90	4.59	328399.000	1494.264	15.9

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.95	297378.719	153.909	147.7
2	35	Total PFOS	79.92	4.86	55953.930	153.909	27.2
3	10	PFOS	79.92	5.07	250953.688	153.909	124.5

Vista Analytical Laboratory Q1

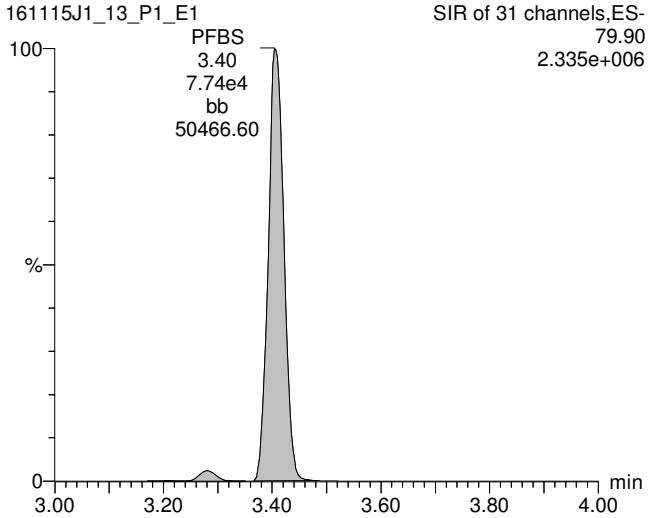
Dataset: Untitled

Last Altered: Wednesday, November 23, 2016 17:43:56 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:44:41 Pacific Standard Time

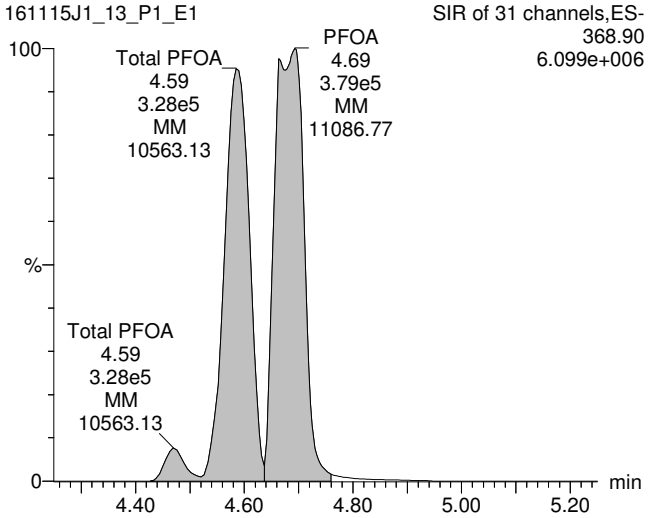
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23, Instrument: , Lab: ©PE-SCIEX, User: sciex

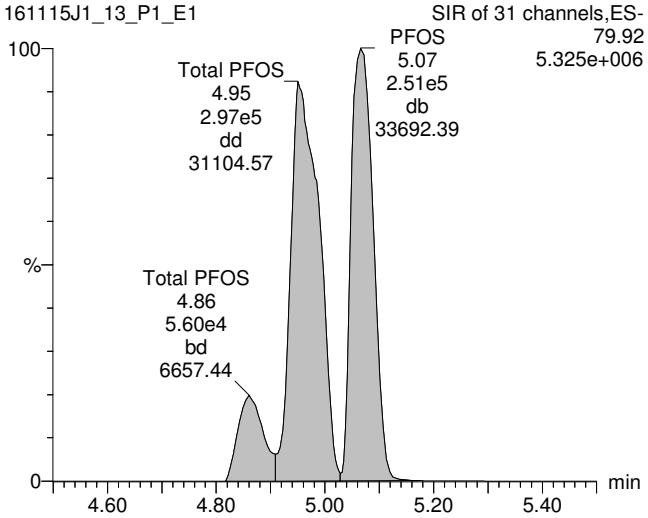
Total PFBS



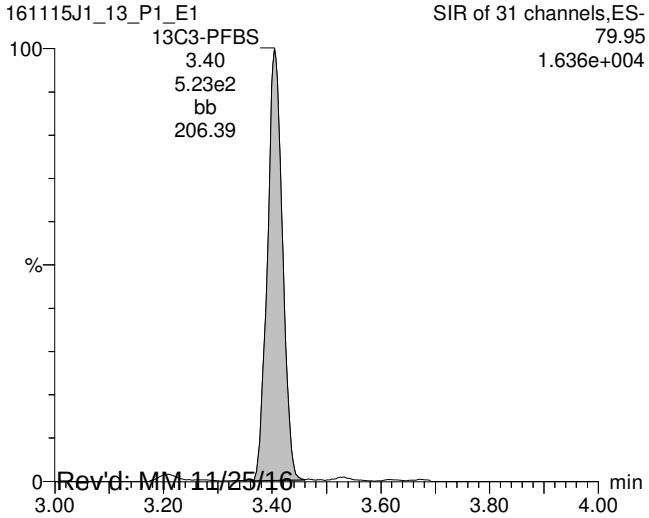
Total PFOA



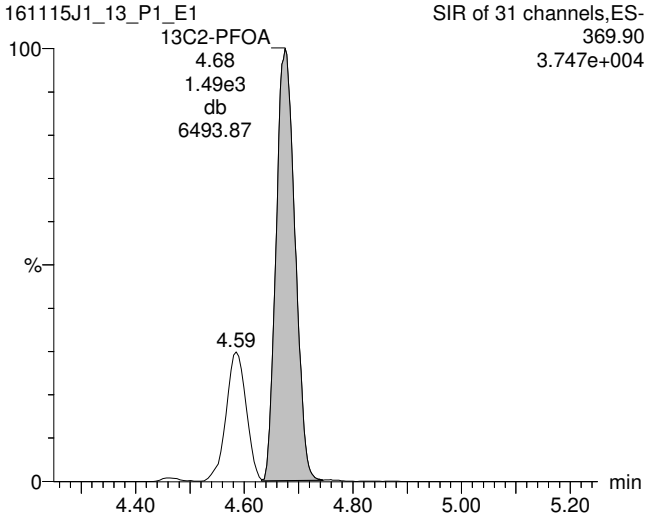
Total PFOS



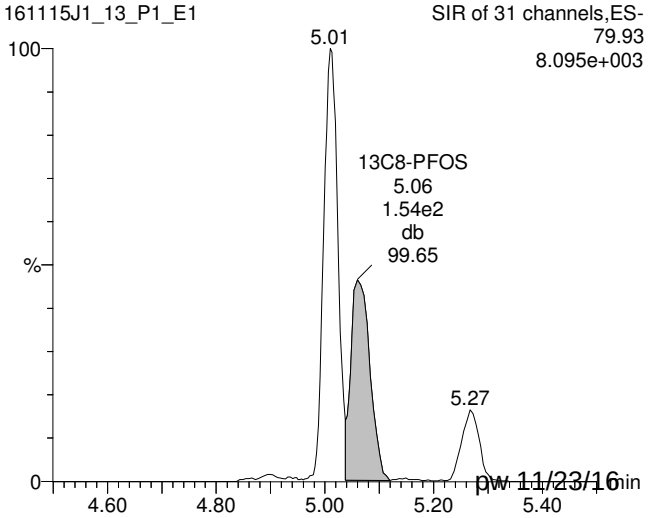
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - untitled *

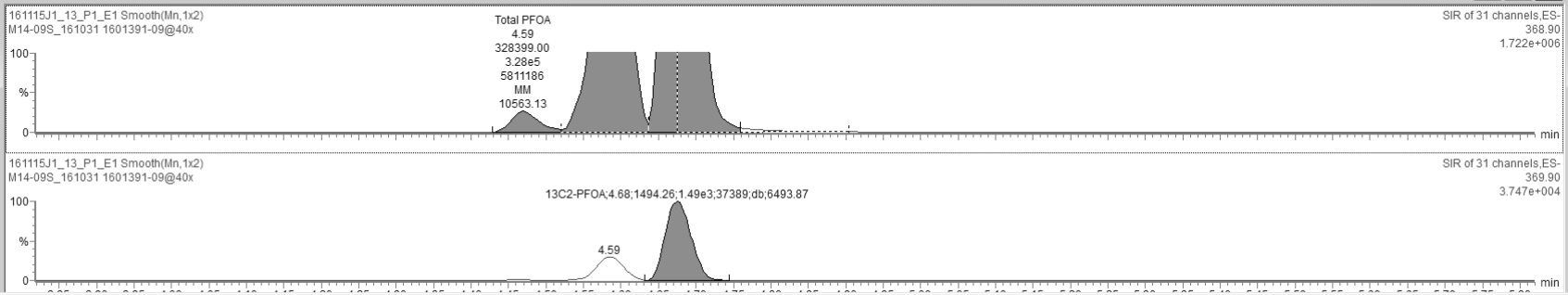
File Edit View Display Processing Window Help

161115J1_13_P1_E1 - 1601391-09@40x - M14-09S_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	0.95035439	0.555			6.547e2		5.27	12	24			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
13	13C3-PFBA	0.0955945...	0.000441	99.5		9.696e2	0.894	1.91	13	25			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
14	13C3-PFPeA	0.25640080	0.00142	266.8		9.612e2	0.945	3.11	14	26			0.819	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
15	13C3-PFBS	0.24822465	0.00340	258.3		5.226e2	0.531	3.40	15	26			0.896	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
16	13C2-PFHxA	0.15135119	0.0000...	393.7		5.429e2	0.905	3.80	16	26			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
17	13C4-PFHpA	0.16519465	0.000117	171.9		5.041e2	0.770	4.28	17	26			1.128	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
18	18O2-PFHxS	0.28351158	0.00222	295.0		8.711e1	0.276	4.40	18	27			1.002	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
19	13C2-6:2 FTS	0.58114336	0.00146	604.7		2.953e2	0.219	4.64	19	28			0.992	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
20	13C2-PFOA	0.96957435	0.000380	1008.9		1.494e3	0.663	4.68	20	28			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
21	13C5-PFNA	0.0860895...	0.0000...	89.6		6.773e2	1.019	5.00	21	30			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
22	13C8-PFOS	0.10677524	0.00257	111.1		1.539e2	0.921	5.06	22	29			1.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
23	13C2-PFDA	0.0797176...	0.0000...	83.0		5.079e2	0.887	5.29	23	31			1.001	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
24	13C2-8:2 FTS	0.0725515...	0.00158	75.5		1.416e2	0.272	5.27	24	31			0.997	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
25	13C4-PFBA	0.0961020...	0.0000...	100.0		1.090e3	1.000	1.91	25	25			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
26	13C5-PFHxA	0.0961020...	0.000541	100.0		3.811e2	1.000	3.80	26	26			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
27	13C3-PFHxS	0.0961020...	0.000528	100.0		1.070e2	1.000	4.39	27	27			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
28	13C8-PFOA	0.0961020...	0.000447	100.0		2.233e2	1.000	4.67	28	28			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
29	13C4-PFOS	0.0961020...	0.000526	100.0		1.504e2	1.000	5.06	29	29			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
30	13C9-PFNA	0.0961020...	0.000201	100.0		7.416e2	1.000	5.00	30	30			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
31	13C6-PFDA	0.0961020...	0.0000...	100.0		6.905e2	1.000	5.28	31	31			0.000	15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
32	Total PFBS	17.573859							32					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
33	Total PFHxS								33					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
34	Total PFOA	34.291921							34					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO
35	Total PFOS	299.32173							35					15-Nov-16	18:09:23		1601391-09...	M14-09S_161031	0.0	0.130	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.69	6.099e6		3.794e5				3.794e5	18.407	
2	Total PFOA	4.59	5.811e6		3.284e5				3.284e5	15.885	

Chromatogram



Ready 161115J1_13_P1_E1 NUM

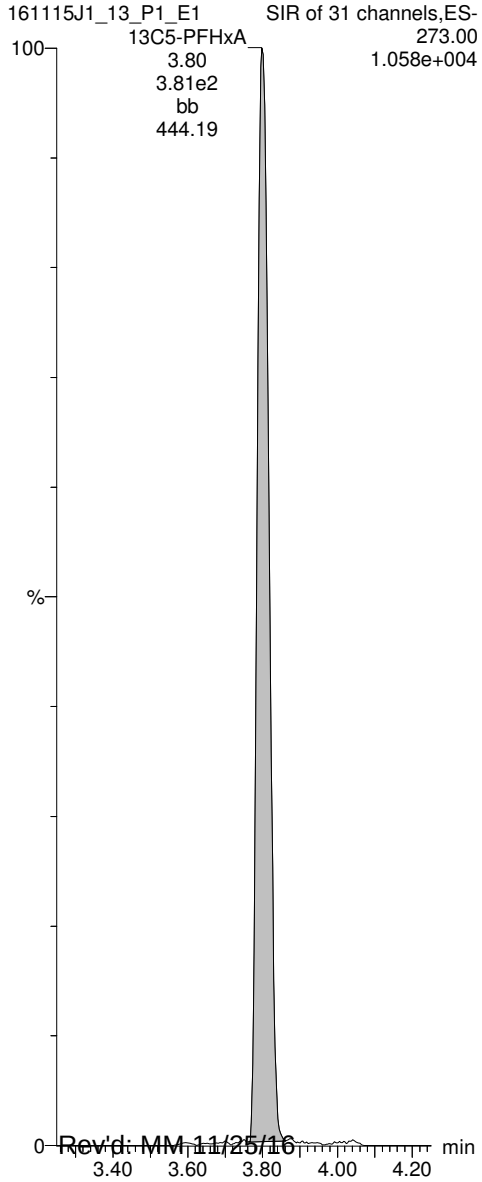
Vista Analytical Laboratory Q1

Dataset: Untitled

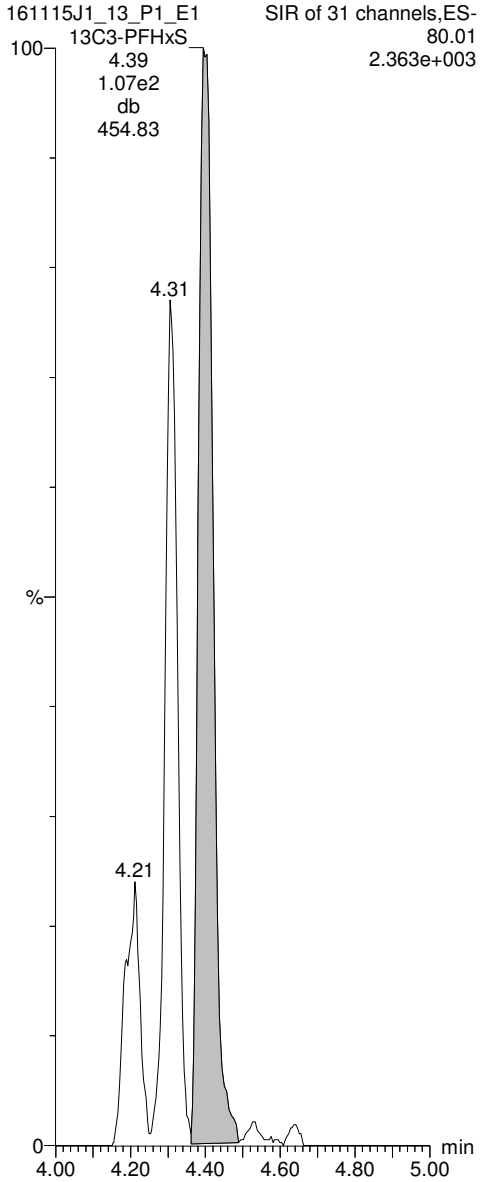
Last Altered: Wednesday, November 23, 2016 17:43:56 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:44:41 Pacific Standard Time

ID: 1601391-09@40x, Description: M14-09S_161031, Name: 161115J1_13.wiff, Date: 15-Nov-2016, Time: 18:09:23, Instrument: , Lab: ©PE-SCIEX, User: sciex

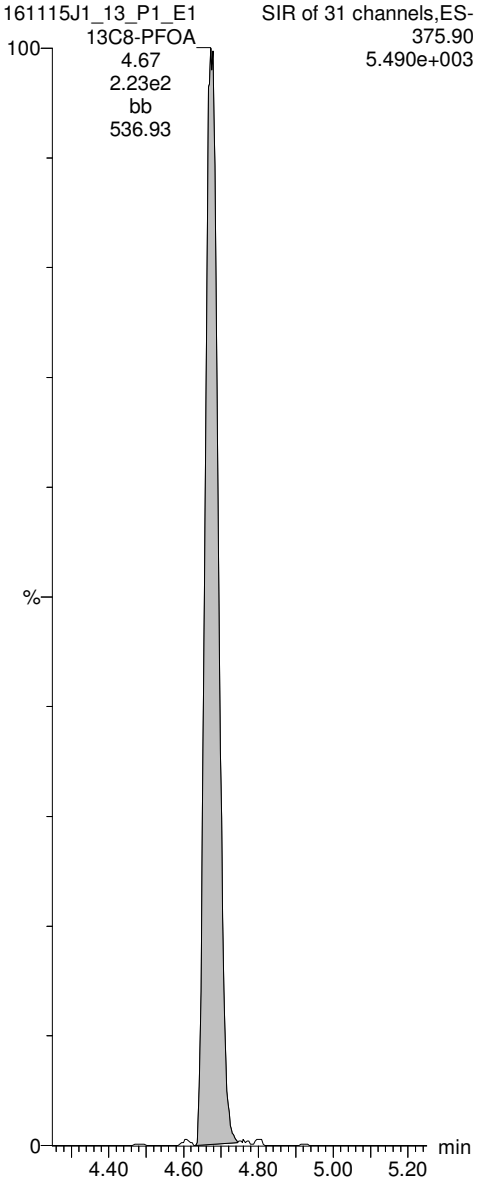
13C5-PFHxA



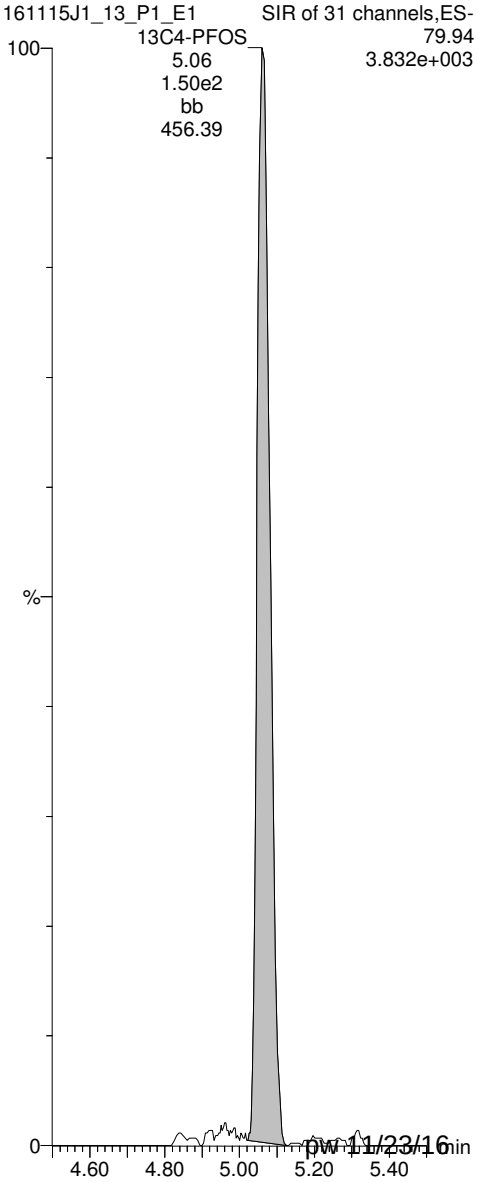
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:47:10 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:48:36 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90	1.467e3	8.835e2		0.125	3.40	212	
2	8	PFOA	368.90	7.151e4	1.017e3		0.125	4.68	*	
3	10	PFOS	79.92	3.959e3	3.521e2		0.125	5.08	896	
4	15	13C3-PFBS	79.95	8.835e2	1.540e3	0.531	0.125	3.40	108	108
5	16	13C2-PFHxA	269.90	5.577e2	1.540e3	0.905	0.125	3.81	39.9	100
6	17	13C4-PFHpA	321.90	1.058e3	1.540e3	0.770	0.125	4.28	89.1	89.3
7	18	18O2-PFHxS	102.90	1.474e2	5.090e2	0.276	0.125	4.39	105	105
8	19	13C2-6:2 FTS	408.90	3.100e2	1.404e3	0.219	0.125	4.63	101	101
9	20	13C2-PFOA	369.90	1.017e3	1.404e3	0.663	0.125	4.68	109	109
10	21	13C5-PFNA	422.90	6.681e2	6.554e2	1.019	0.125	5.02	99.8	100
11	22	13C8-PFOS	79.93	3.521e2	3.452e2	0.921	0.125	5.08	110	111
12	25	13C4-PFBA	171.90	1.506e3	1.506e3	1.000	0.125	1.91	99.8	100
13	26	13C5-PFHxA	273.00	1.540e3	1.540e3	1.000	0.125	3.80	99.8	100
14	27	13C3-PFHxS	80.01	5.090e2	5.090e2	1.000	0.125	4.39	99.8	100
15	28	13C8-PFOA	375.90	1.404e3	1.404e3	1.000	0.125	4.68	99.8	100
16	29	13C4-PFOS	79.94	3.452e2	3.452e2	1.000	0.125	5.07	99.8	100
17	30	13C9-PFNA	427.00	6.554e2	6.554e2	1.000	0.125	5.01	99.8	100
18	31	13C6-PFDA	474.00	4.643e2	4.643e2	1.000	0.125	5.31	99.8	100
19	32	Total PFBS	79.90		8.835e2		0.125		214	
20	34	Total PFOA	368.90		1.017e3		0.125		1050 *	
21	35	Total PFOS	79.92		3.521e2		0.125		1540	

* See ug/L Targeting

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:47:10 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:48:36 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	1466.966	883.549	212.1
2	32	Total PFBS	79.90	3.28	24.242	883.549	2.1

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	47021.648	147.421	7893.8
2	33	Total PFHxS	79.91	4.30	8292.923	147.421	1654.7
3	33	Total PFHxS	79.91	4.19	47.882	147.421	10.0

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	71509.156	1017.255	
2	34	Total PFOA	368.90	4.58	10493.336	1017.255	1047.4

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.08	3959.235	352.086	896.2
2	35	Total PFOS	79.92	4.97	2191.436	352.086	495.7
3	35	Total PFOS	79.92	4.87	643.599	352.086	145.0

Vista Analytical Laboratory Q1

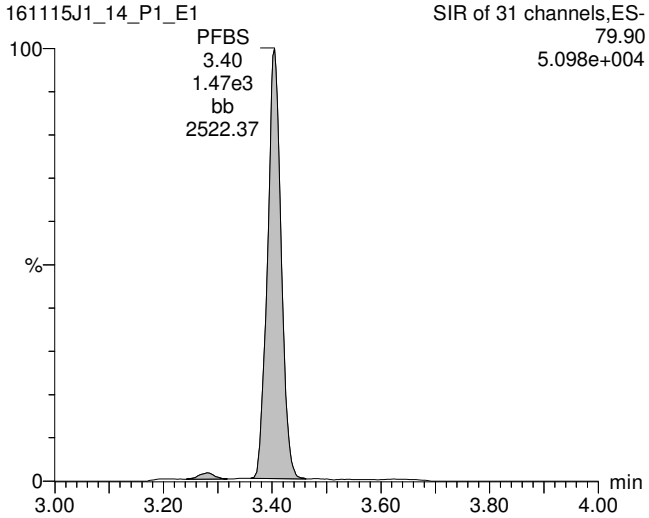
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ngLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:47:10 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:48:36 Pacific Standard Time

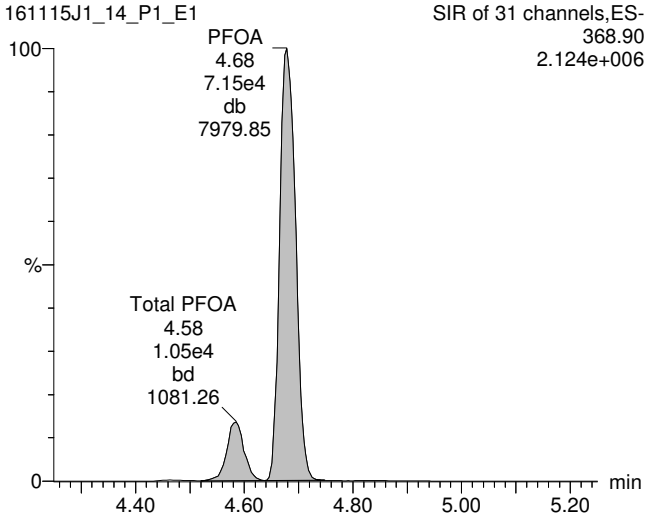
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

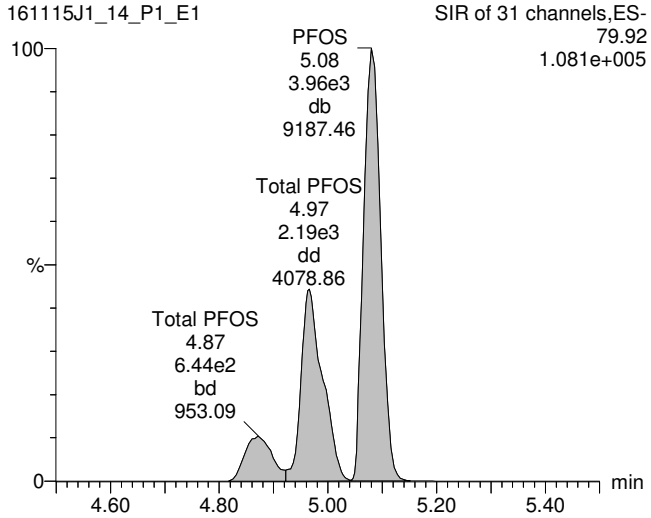
Total PFBS



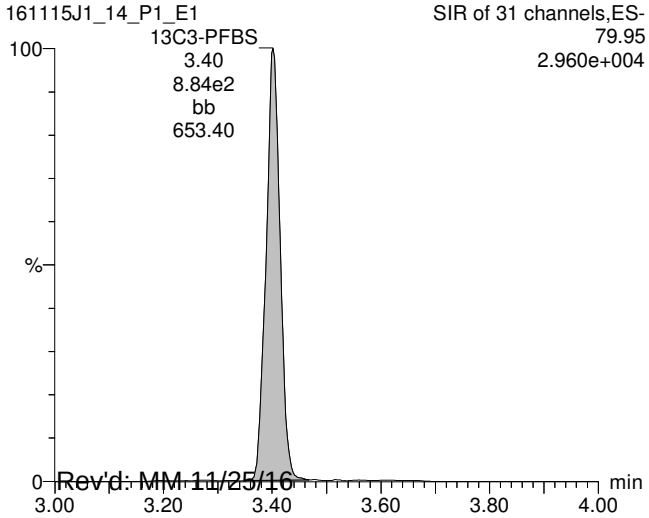
Total PFOA



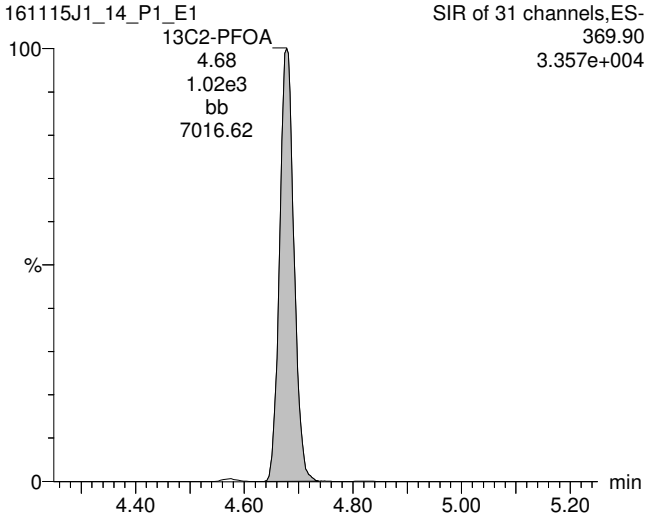
Total PFOS



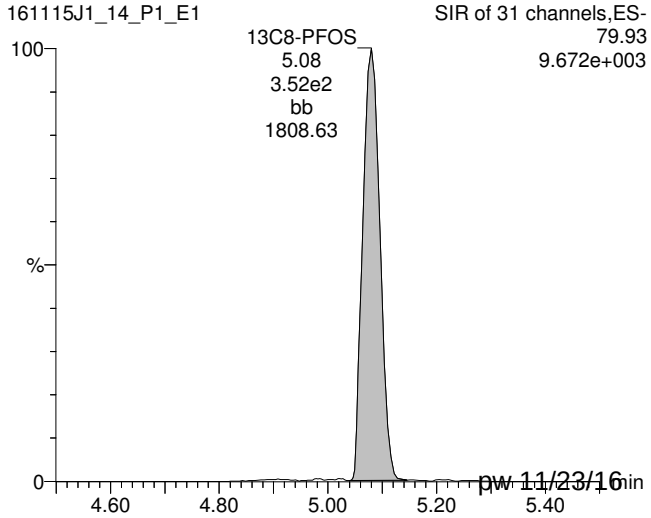
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

TargetLynx - 161115J1_14_ngLTarget.qld

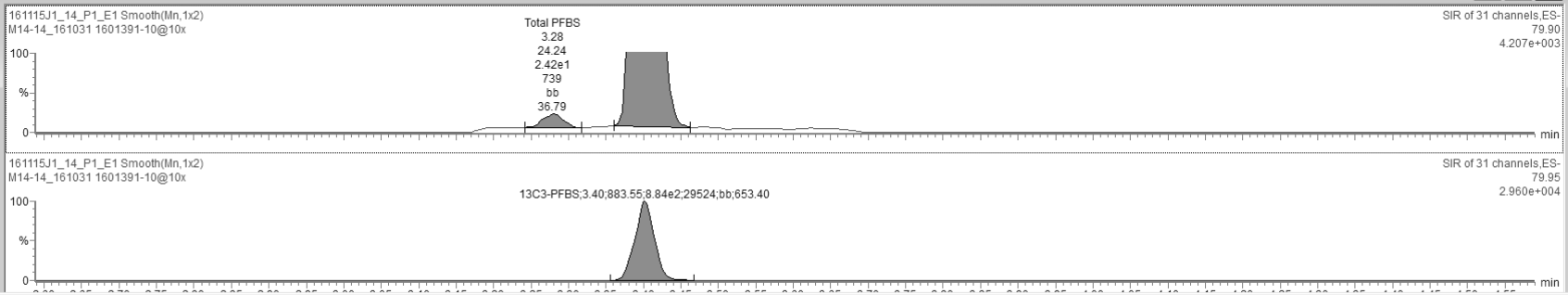
File Edit View Display Processing Window Help

161115J1_14_P1_E1 - 1601391-10@10x - M14-14_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS		0.698						12	24				15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
13	13C3-PFBA	97.883721	0.336	98.1		1.320e3	0.894	1.92	13	25			1.002	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
14	13C3-PFPeA	108.90622	0.299	109.1		1.589e3	0.945	3.11	14	26			0.818	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
15	13C3-PFBS	107.81509	0.405	108.0		8.835e2	0.531	3.40	15	26			0.895	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
16	13C2-PFHxA	39.941837	0.00908	100.1		5.577e2	0.905	3.81	16	26			1.001	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
17	13C4-PFHpA	89.073142	0.0286	89.3		1.058e3	0.770	4.28	17	26			1.126	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
18	18O2-PFHxS	104.74589	0.214	105.0		1.474e2	0.276	4.39	18	27			1.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
19	13C2-6:2 FTS	100.76167	0.0000...	101.0		3.100e2	0.219	4.63	19	28			0.990	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
20	13C2-PFOA	108.99067	0.0399	109.2		1.017e3	0.663	4.68	20	28			1.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
21	13C5-PFNA	99.790570	33.3	100.0		6.681e2	1.019	5.02	21	30			1.001	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
22	13C8-PFOS	110.48615	0.147	110.7		3.521e2	0.921	5.08	22	29			1.001	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
23	13C2-PFDA	70.494192	0.778	70.6		2.908e2	0.887	5.31	23	31			1.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
24	13C2-8:2 FTS	76.865158	0.0000...	77.0		9.713e1	0.272	5.28	24	31			0.995	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
25	13C4-PFBA	99.800399	0.162	100.0		1.506e3	1.000	1.91	25	25			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
26	13C5-PFHxA	99.800399	0.0189	100.0		1.540e3	1.000	3.80	26	26			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
27	13C3-PFHxS	99.800399	0.0766	100.0		5.090e2	1.000	4.39	27	27			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
28	13C8-PFOA	99.800399	0.0509	100.0		1.404e3	1.000	4.68	28	28			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
29	13C4-PFOS	99.800399	0.138	100.0		3.452e2	1.000	5.07	29	29			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
30	13C9-PFNA	99.800399	0.0824	100.0		6.554e2	1.000	5.01	30	30			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
31	13C6-PFDA	99.800399	0.0455	100.0		4.643e2	1.000	5.31	31	31			0.000	15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	YES
32	Total PFBS	214.22145							32					15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
33	Total PFHxS	9558.4871							33					15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
34	Total PFOA	1047.4399							34					15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO
35	Total PFOS	1536.9762							35					15-Nov-16	18:21:37		1601391-10...	M14-14_161031	0.0	0.125	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.40	5.067e4		1.467e3				1.467e3	212.10	
2	Total PFBS	3.28	7.390e2		2.424e1				2.424e1	2.1201	

Chromatogram



Ready 161115J1_14_P1_E1 NUM

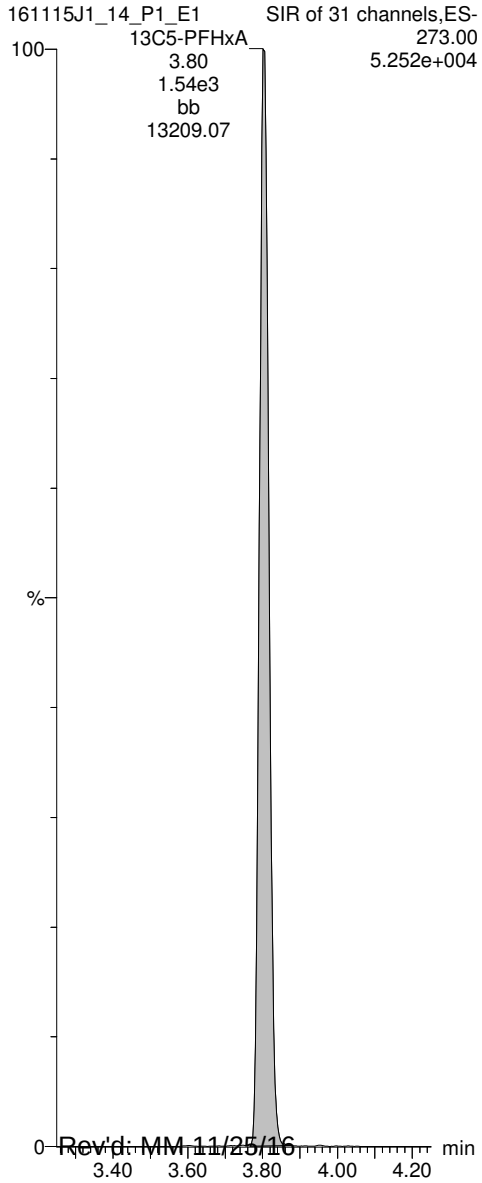
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ngLTarget.qld

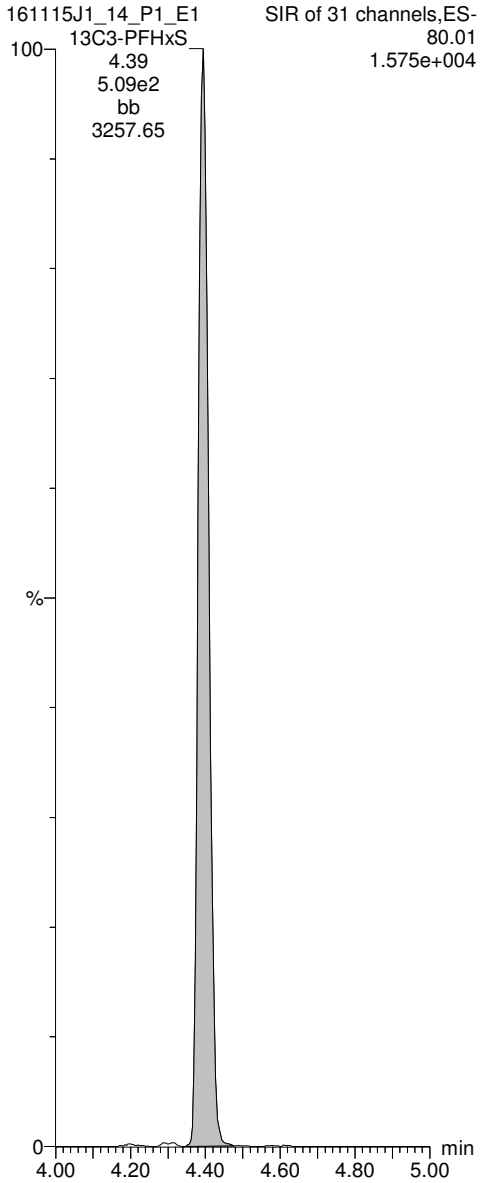
Last Altered: Wednesday, November 23, 2016 17:47:10 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:48:36 Pacific Standard Time

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

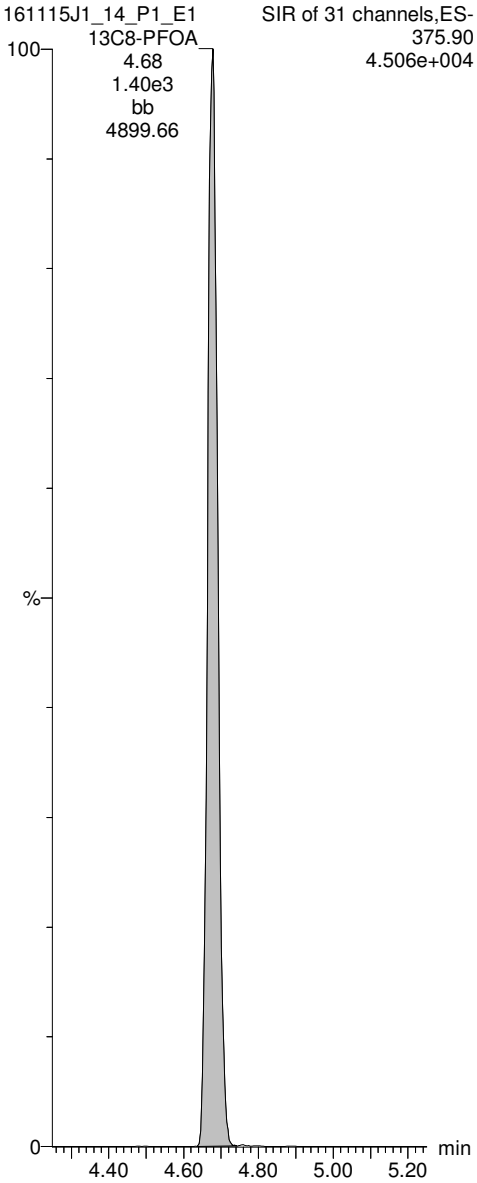
13C5-PFHxA



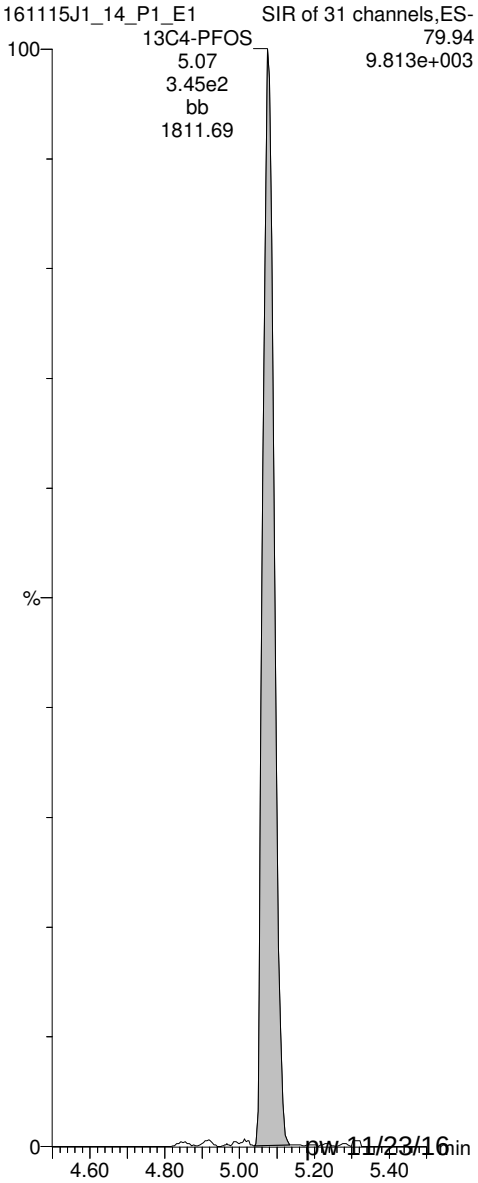
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:51:40 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:53:14 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	8	PFOA	368.90	7.151e4	1.017e3		0.125	4.68	5.07	
2	20	13C2-PFOA	369.90	1.017e3	1.404e3	0.663	0.125	4.68	0.109	109
3	28	13C8-PFOA	375.90	1.404e3	1.404e3	1.000	0.125	4.68	0.0998	100
4	34	Total PFOA	368.90		1.017e3		0.125		5.56	

Target = ug/L

Rev'd: MM 11/25/16 pw 11/23/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:51:40 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:53:14 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	1466.966	883.549	
2	32	Total PFBS	79.90	3.28	24.242	883.549	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	47021.648	147.421	9.8
2	33	Total PFHxS	79.91	4.30	8292.923	147.421	1.6
3	33	Total PFHxS	79.91	4.19	47.882	147.421	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	71509.156	1017.255	5.1
2	34	Total PFOA	368.90	4.58	10493.336	1017.255	0.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.08	3959.235	352.086	0.1
2	35	Total PFOS	79.92	4.97	2191.436	352.086	
3	35	Total PFOS	79.92	4.87	643.599	352.086	

Vista Analytical Laboratory Q1

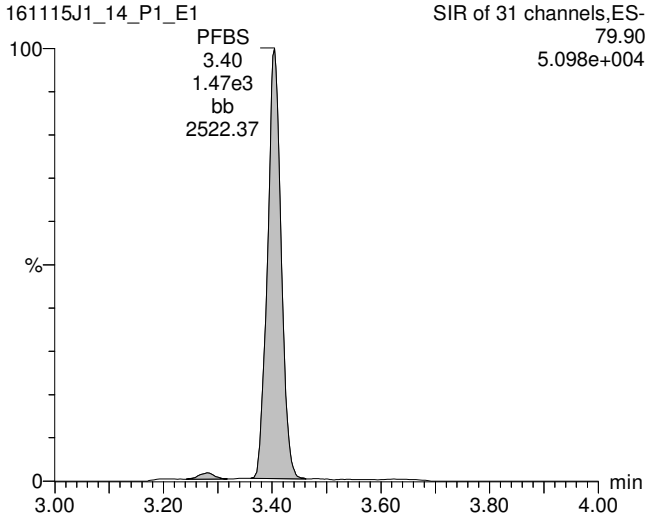
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ugLTarget.qld

Last Altered: Wednesday, November 23, 2016 17:51:40 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:53:14 Pacific Standard Time

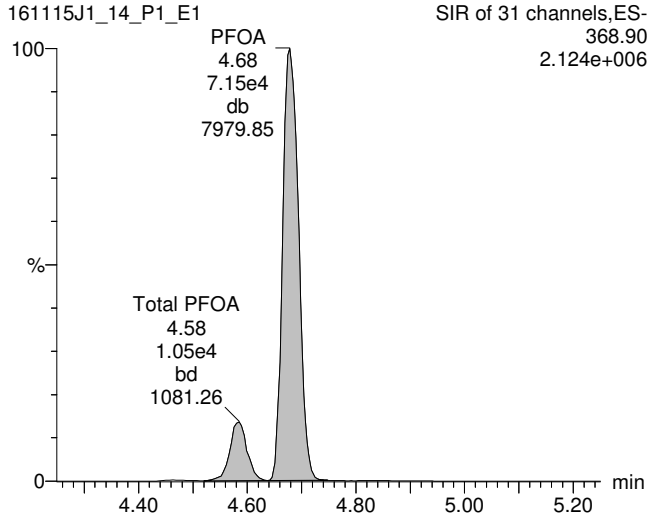
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

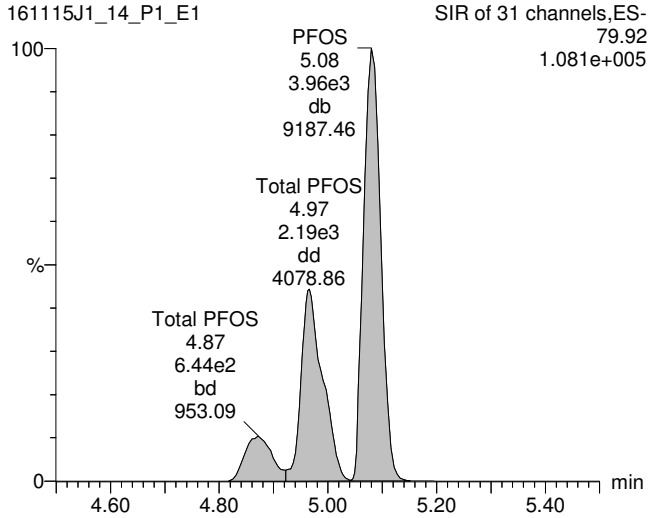
Total PFBS



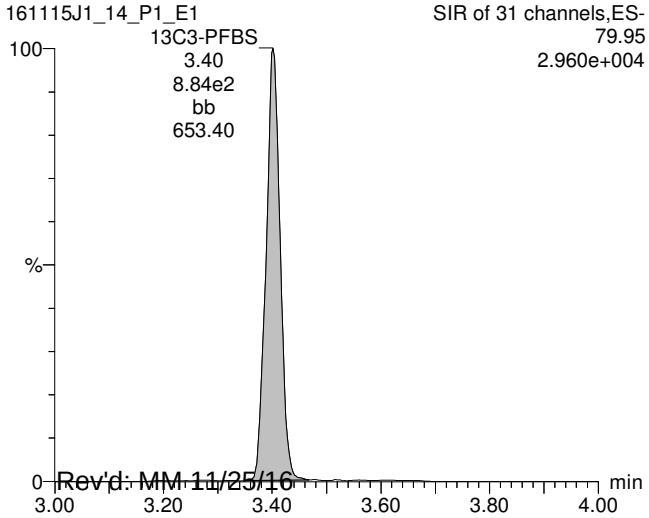
Total PFOA



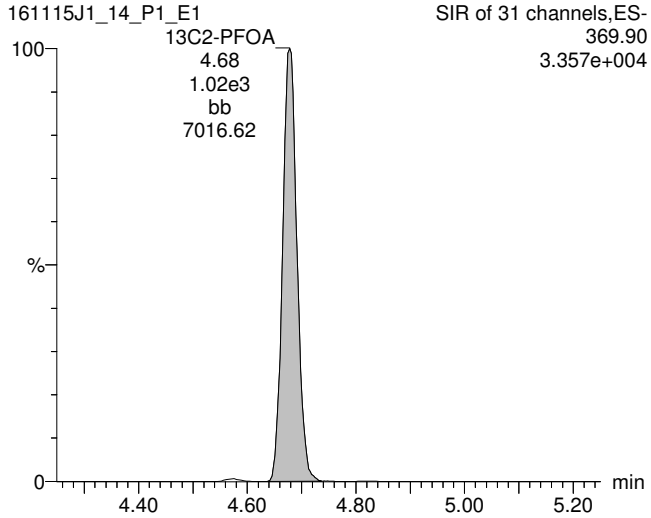
Total PFOS



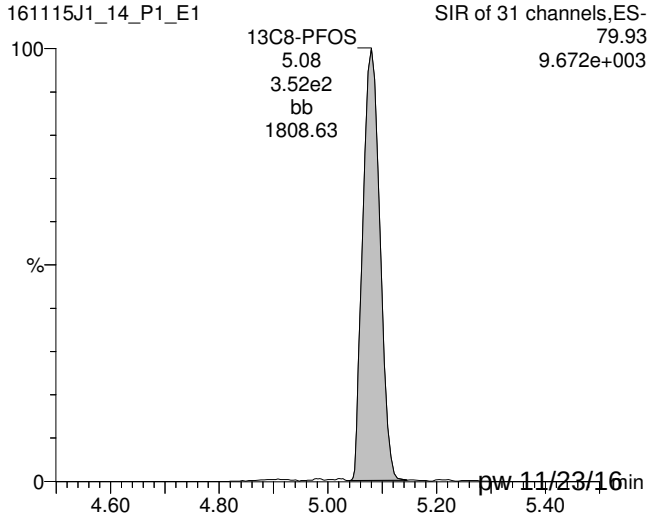
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

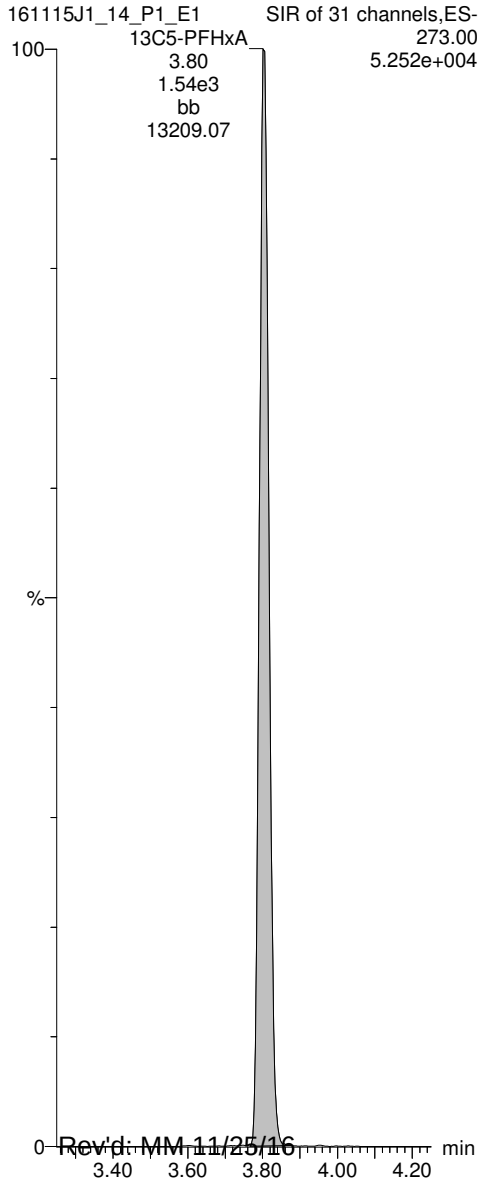
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_14_ugLTarget.qld

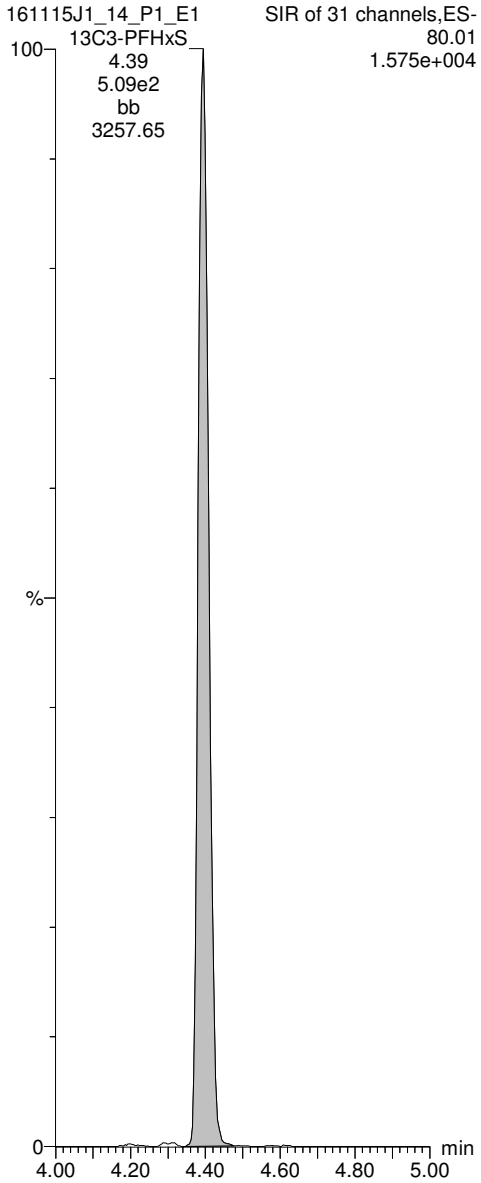
Last Altered: Wednesday, November 23, 2016 17:51:40 Pacific Standard Time
Printed: Wednesday, November 23, 2016 17:53:14 Pacific Standard Time

ID: 1601391-10@10x, Description: M14-14_161031, Name: 161115J1_14.wiff, Date: 15-Nov-2016, Time: 18:21:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

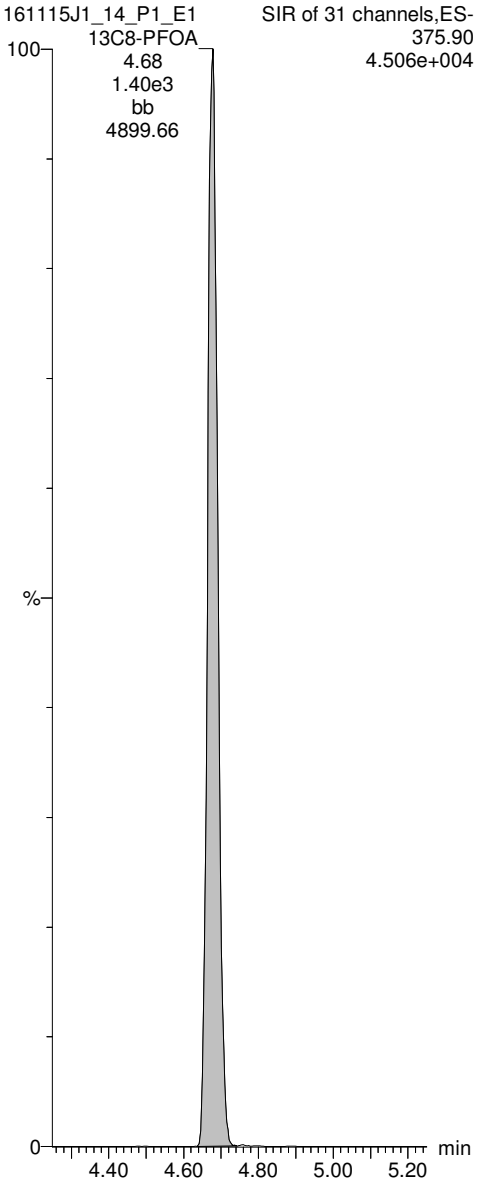
13C5-PFHxA



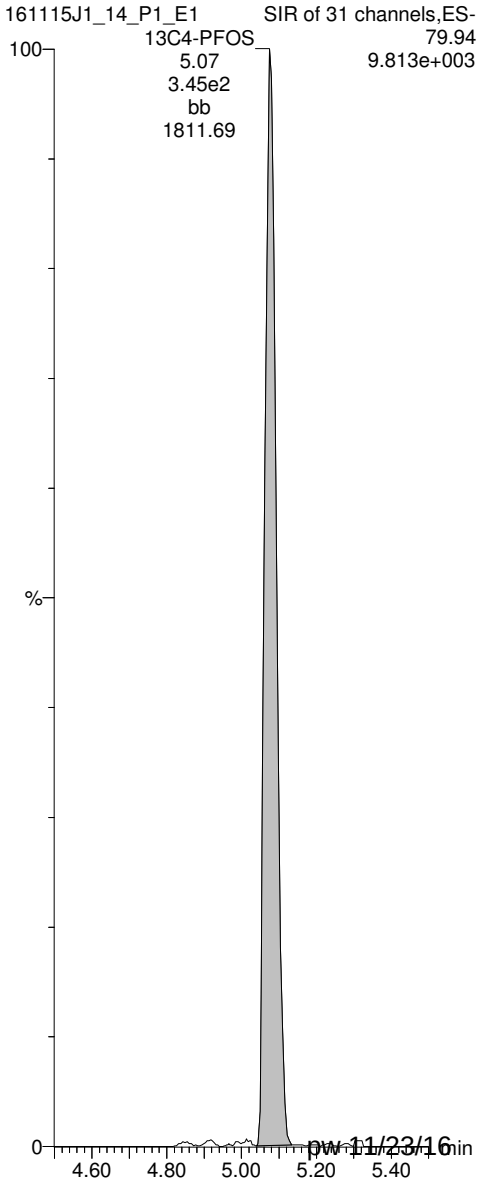
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ngLTarget.qld

Last Altered: Friday, November 25, 2016 11:30:18 Pacific Standard Time
Printed: Friday, November 25, 2016 11:30:49 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.		%Rec	
1	3	PFBS	79.90	1.888e4	5.410e2		0.124	3.40	2950			
2	8	PFOA	368.90	2.930e5	9.742e2		0.124	4.67	*			
3	10	PFOS	79.92	2.123e5	1.445e2		0.124	5.06	118000	E		
4	15	13C3-PFBS	79.95	5.410e2	7.596e2	0.531	0.124	3.40	135		134	
5	16	13C2-PFHxA	269.90	4.175e2	7.596e2	0.905	0.124	3.80	61.2		60.8	
6	17	13C4-PFHpA	321.90	7.023e2	7.596e2	0.770	0.124	4.28	121		120	
7	18	18O2-PFHxS	102.90	8.856e1	2.130e2	0.276	0.124	4.40	152		151	
8	19	13C2-6:2 FTS	408.90	2.329e3	4.569e2	0.219	0.124	4.63	2350		2330	
9	20	13C2-PFOA	369.90	9.742e2	4.569e2	0.663	0.124	4.67	324		321	H
10	21	13C5-PFNA	422.90	5.925e2	5.788e2	1.019	0.124	5.00	101		100	
11	22	13C8-PFOS	79.93	1.445e2	1.417e2	0.921	0.124	5.06	111		111	
12	25	13C4-PFBA	171.90	8.877e2	8.877e2	1.000	0.124	1.92	101		100	
13	26	13C5-PFHxA	273.00	7.596e2	7.596e2	1.000	0.124	3.80	101		100	
14	27	13C3-PFHxS	80.01	2.130e2	2.130e2	1.000	0.124	4.39	101		100	
15	28	13C8-PFOA	375.90	4.569e2	4.569e2	1.000	0.124	4.67	101		100	
16	29	13C4-PFOS	79.94	1.417e2	1.417e2	1.000	0.124	5.06	101		100	
17	30	13C9-PFNA	427.00	5.788e2	5.788e2	1.000	0.124	5.00	101		100	
18	31	13C6-PFDA	474.00	4.290e2	4.290e2	1.000	0.124	5.28	101		100	
19	32	Total PFBS	79.90		5.410e2		0.124		3040			
20	34	Total PFOA	368.90		9.742e2		0.124		412	*		
21	35	Total PFOS	79.92		1.445e2		0.124		258000			

* Report from ug/L Targeting

Rev'd: MM 11/25/16 pw 11/25/16

Quantify Totals Report MassLynx 4.1 SCN815
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ngLTarget.qld

Last Altered: Friday, November 25, 2016 11:30:18 Pacific Standard Time
Printed: Friday, November 25, 2016 11:30:49 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	18877.195	540.987	2949.0
2	32	Total PFBS	79.90	3.28	386.861	540.987	93.5

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	132194.453	88.564	25727.7
2	33	Total PFHxS	79.91	4.30	32844.012	88.564	9016.4
3	33	Total PFHxS	79.91	4.27	10804.604	88.564	3437.2
4	33	Total PFHxS	79.91	4.19	366.718	88.564	128.7

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.67	292985.531	974.201	
2	34	Total PFOA	368.90	4.58	153600.828	974.201	
3	34	Total PFOA	368.90	4.46	4727.576	974.201	412.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.06	212293.422	144.470	118218.5
2	35	Total PFOS	79.92	4.96	224364.031	144.470	124940.2
3	35	Total PFOS	79.92	4.86	26835.348	144.470	14942.9

Rev'd: MM 11/25/16

pw 11/25/16

Vista Analytical Laboratory Q1

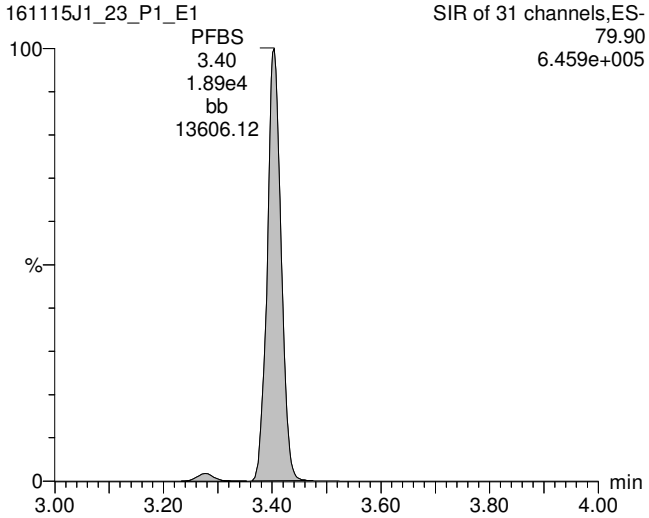
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ngLTarget.qld

Last Altered: Friday, November 25, 2016 11:30:18 Pacific Standard Time
Printed: Friday, November 25, 2016 11:30:49 Pacific Standard Time

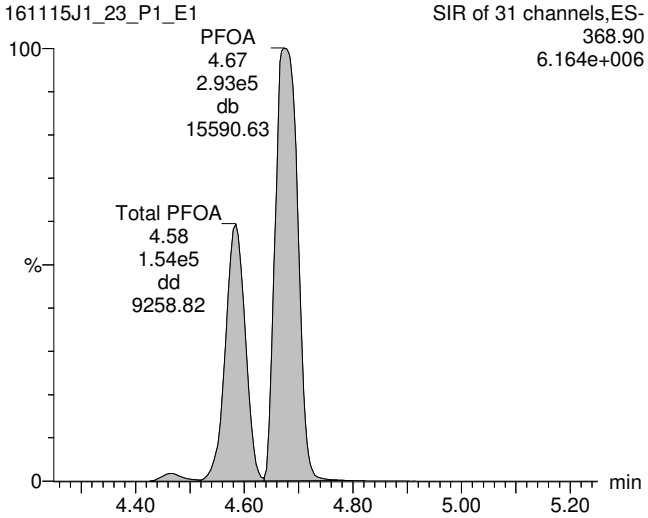
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

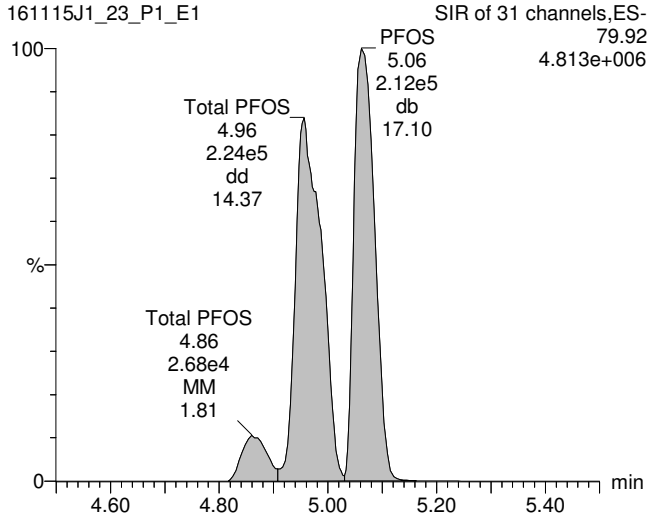
Total PFBS



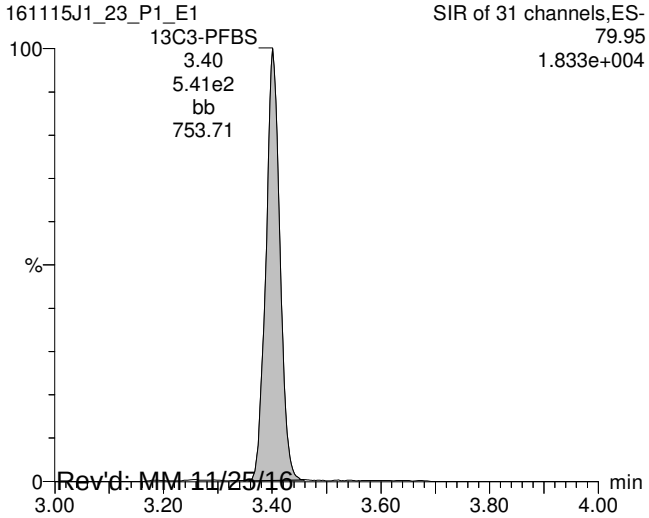
Total PFOA



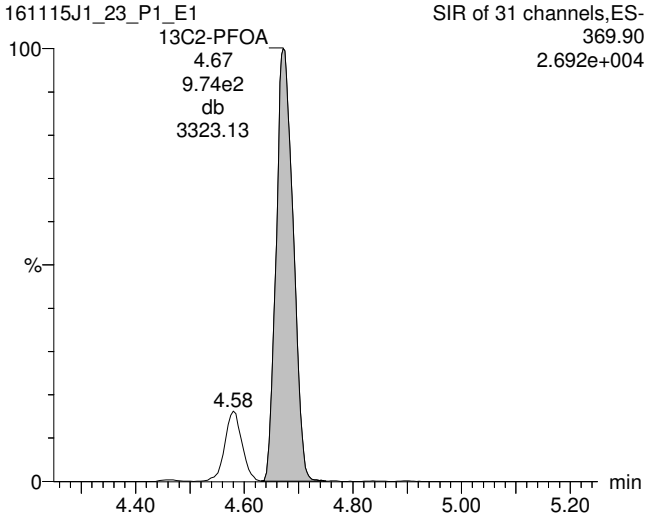
Total PFOS



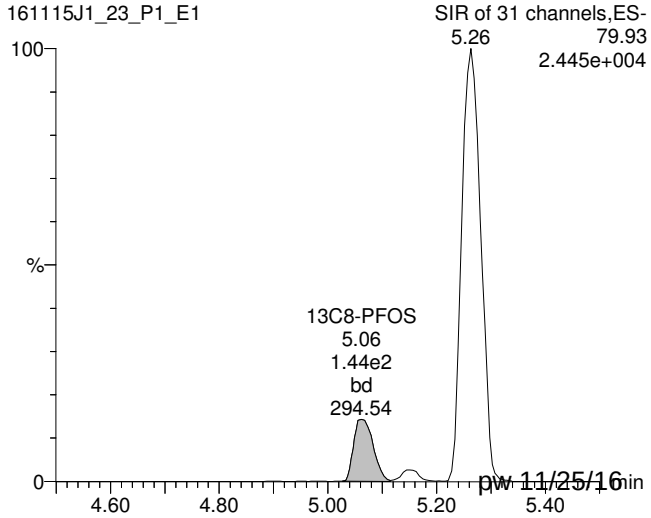
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_23_ngLTarget.qld

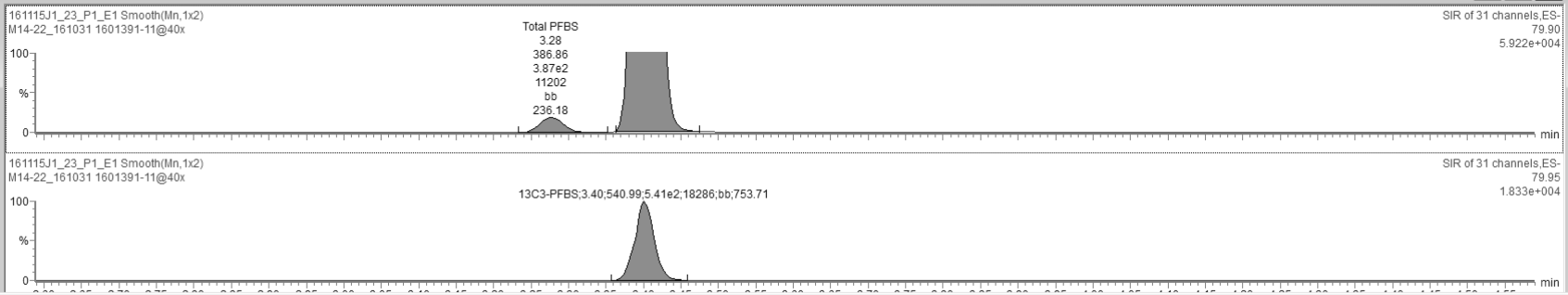
File Edit View Display Processing Window Help

161115J1_23_P1_E1 - 1601391-11@40x - M14-22_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.543e4		5.26	12	24			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
13	13C3-PFBA	104.72539	0.615	104.0		8.259e2	0.894	1.92	13	25			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
14	13C3-PFPeA	124.62617	0.497	123.8		8.893e2	0.945	3.11	14	26			0.818	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
15	13C3-PFBS	135.01249	0.473	134.1		5.410e2	0.531	3.40	15	26			0.895	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
16	13C2-PFHxA	61.151257	0.0755	60.8		4.175e2	0.905	3.80	16	26			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
17	13C4-PFHpA	120.90165	0.0833	120.1		7.023e2	0.770	4.28	17	26			1.126	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
18	18O2-PFHxS	151.67405	9.27	150.7		8.856e1	0.276	4.40	18	27			1.001	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
19	13C2-6:2 FTS	2346.6407	0.720	2331.4		2.329e3	0.219	4.63	19	28			0.991	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
20	13C2-PFOA	323.54819	0.255	321.5		9.742e2	0.663	4.67	20	28			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
21	13C5-PFNA	101.07228	0.255	100.4		5.925e2	1.019	5.00	21	30			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
22	13C8-PFOS	111.39046	0.853	110.7		1.445e2	0.921	5.06	22	29			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
23	13C2-PFDA	94.294825	0.0000...	93.7		3.564e2	0.887	5.28	23	31			1.001	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
24	13C2-8:2 FTS	680.80980	0.353	676.4		7.881e2	0.272	5.26	24	31			0.997	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
25	13C4-PFBA	100.65223	0.0363	100.0		8.877e2	1.000	1.92	25	25			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
26	13C5-PFHxA	100.65223	0.0790	100.0		7.596e2	1.000	3.80	26	26			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
27	13C3-PFHxS	100.65223	0.198	100.0		2.130e2	1.000	4.39	27	27			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
28	13C8-PFOA	100.65223	0.434	100.0		4.569e2	1.000	4.67	28	28			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
29	13C4-PFOS	100.65223	0.660	100.0		1.417e2	1.000	5.06	29	29			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
30	13C9-PFNA	100.65223	0.123	100.0		5.788e2	1.000	5.00	30	30			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
31	13C6-PFDA	100.65223	0.0713	100.0		4.290e2	1.000	5.28	31	31			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
32	Total PFBS	3042.4382							32					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
33	Total PFHxS	38309.948							33					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
34	Total PFOA	412.45613							34					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
35	Total PFOS	258069.38							35					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.40	6.453e5		1.888e4				1.888e4	2949.0	
2	Total PFBS	3.28	1.120e4		3.869e2				3.869e2	93.474	

Chromatogram



Ready 161115J1_23_P1_E1 NUM

TargetLynx - 161115J1_23_ngLTarget.qld

File Edit View Display Processing Window Help

161115J1_23_P1_E1 - 1601391-11@40x - M14-22_161031

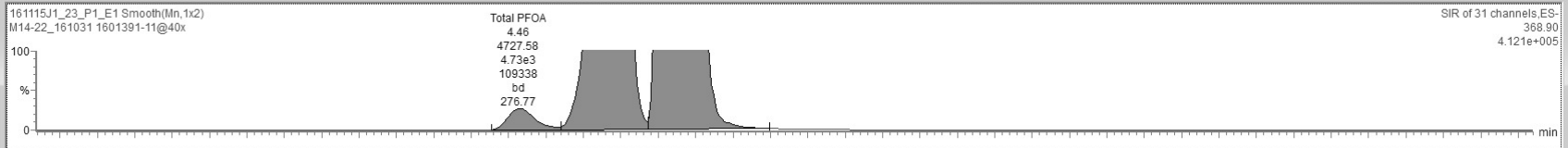
	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.543e4		5.26	12	24			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
13	13C3-PFBA	104.72539	0.615	104.0		8.259e2	0.894	1.92	13	25			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
14	13C3-PFPeA	124.62617	0.497	123.8		8.893e2	0.945	3.11	14	26			0.818	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
15	13C3-PFBS	135.01249	0.473	134.1		5.410e2	0.531	3.40	15	26			0.895	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
16	13C2-PFHxA	61.151257	0.0755	60.8		4.175e2	0.905	3.80	16	26			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
17	13C4-PFHpA	120.90165	0.0833	120.1		7.023e2	0.770	4.28	17	26			1.126	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
18	18O2-PFHxS	151.67405	9.27	150.7		8.856e1	0.276	4.40	18	27			1.001	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
19	13C2-6:2 FTS	2346.6407	0.720	2331.4		2.329e3	0.219	4.63	19	28			0.991	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
20	13C2-PFOA	323.54819	0.255	321.5		9.742e2	0.663	4.67	20	28			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
21	13C5-PFNA	101.07228	0.255	100.4		5.925e2	1.019	5.00	21	30			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
22	13C8-PFOS	111.39046	0.853	110.7		1.445e2	0.921	5.06	22	29			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
23	13C2-PFDA	94.294825	0.0000...	93.7		3.564e2	0.887	5.28	23	31			1.001	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
24	13C2-8:2 FTS	680.80980	0.353	676.4		7.881e2	0.272	5.26	24	31			0.997	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
25	13C4-PFBA	100.65223	0.0363	100.0		8.877e2	1.000	1.92	25	25			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
26	13C5-PFHxA	100.65223	0.0790	100.0		7.596e2	1.000	3.80	26	26			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
27	13C3-PFHxS	100.65223	0.198	100.0		2.130e2	1.000	4.39	27	27			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
28	13C8-PFOA	100.65223	0.434	100.0		4.569e2	1.000	4.67	28	28			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
29	13C4-PFOS	100.65223	0.660	100.0		1.417e2	1.000	5.06	29	29			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
30	13C9-PFNA	100.65223	0.123	100.0		5.788e2	1.000	5.00	30	30			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
31	13C6-PFDA	100.65223	0.0713	100.0		4.290e2	1.000	5.28	31	31			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	YES
32	Total PFBS	3042.4382							32					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
33	Total PFHxS	38309.948							33					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
34	Total PFOA	412.45613							34					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
35	Total PFOS	258069.38							35					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.67	6.159e6		2.930e5				2.930e5		
2	Total PFOA	4.58	3.658e6		1.536e5				1.536e5		

Chromatogram

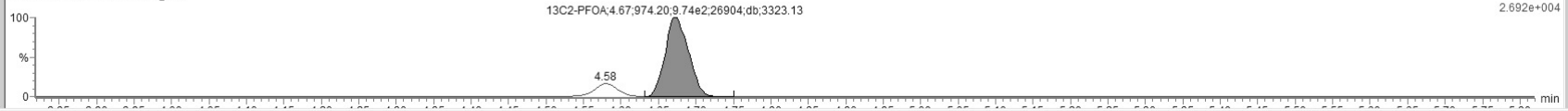
161115J1_23_P1_E1 Smooth(Mn,1x2)
M14-22_161031 1601391-11@40x

SIR of 31 channels,ES-
368.90
4.121e+005



161115J1_23_P1_E1 Smooth(Mn,1x2)
M14-22_161031 1601391-11@40x

SIR of 31 channels,ES-
369.90
2.692e+004



Ready 161115J1_23_P1_E1 NUM

Rev'd: MM 11/25/16 pw 11/25/16

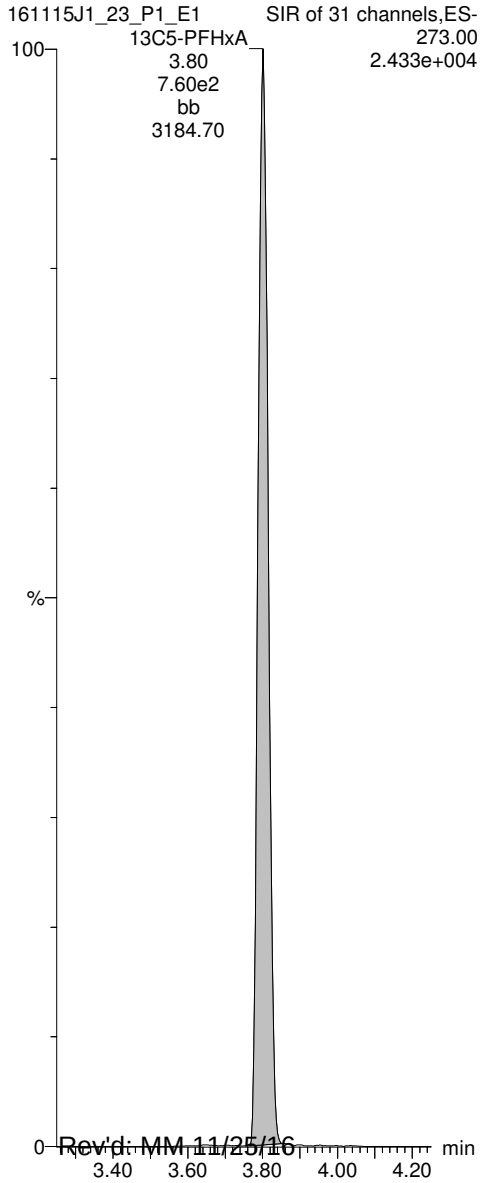
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ngLTarget.qld

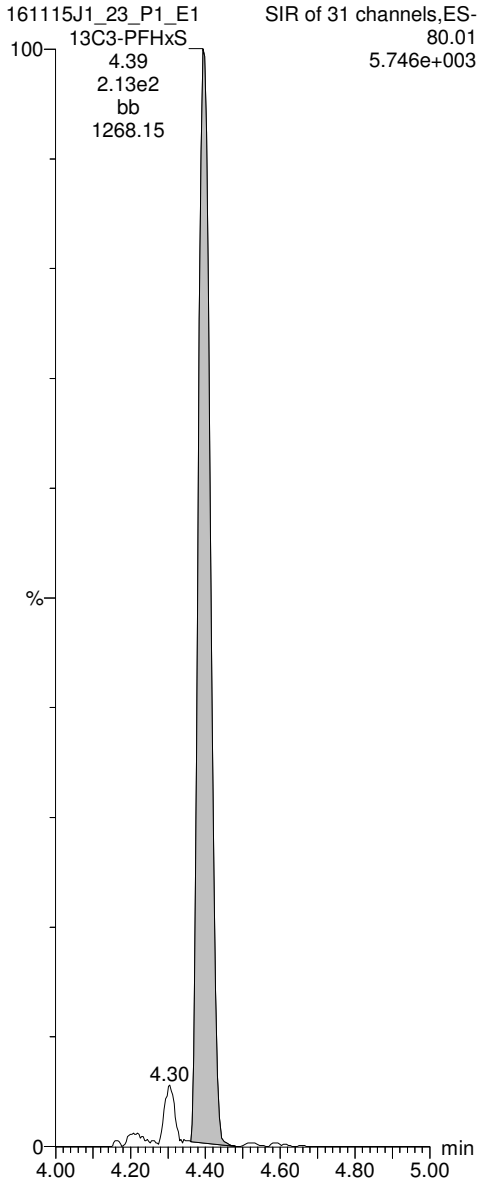
Last Altered: Friday, November 25, 2016 11:30:18 Pacific Standard Time
Printed: Friday, November 25, 2016 11:30:49 Pacific Standard Time

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

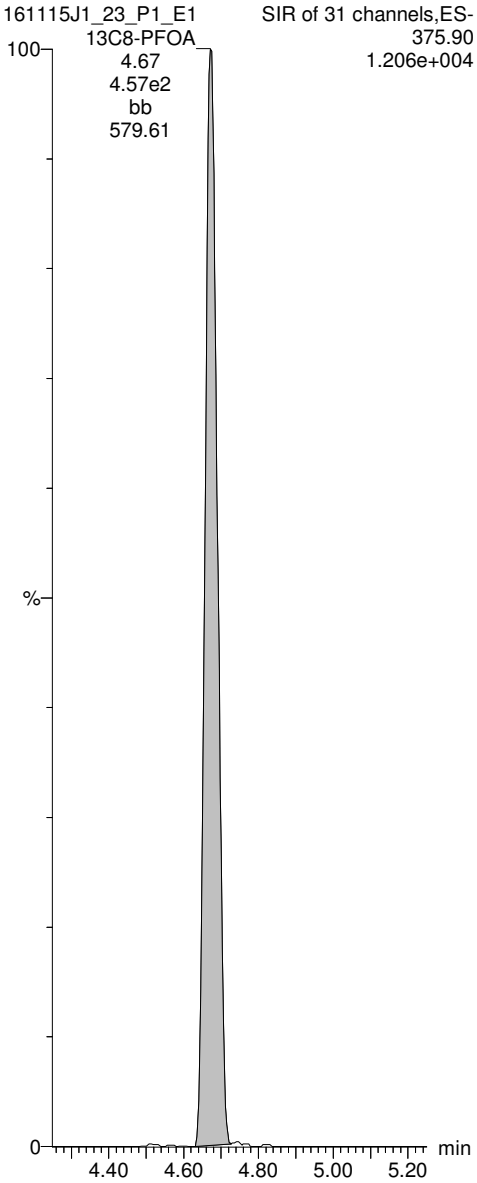
13C5-PFHxA



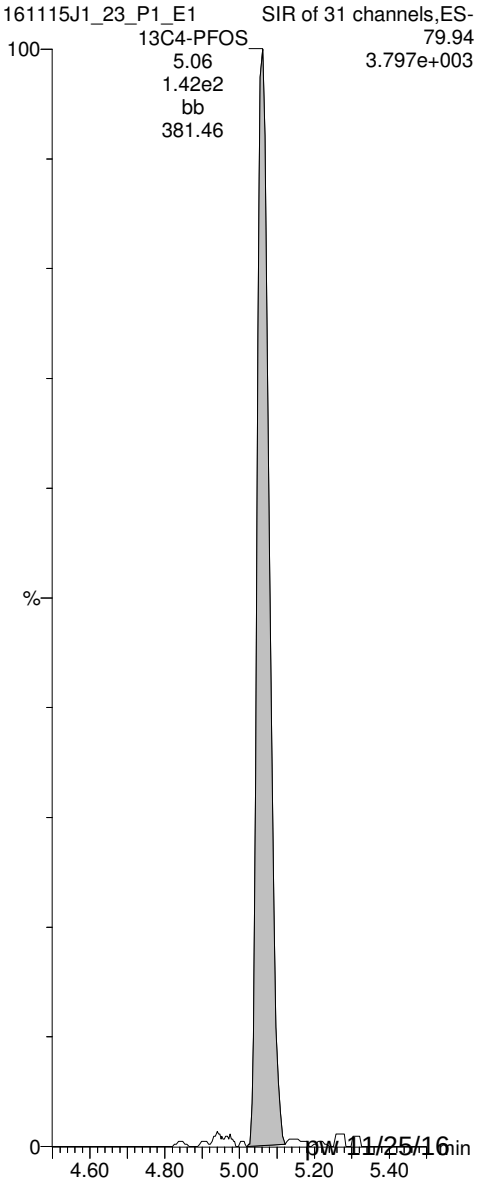
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ugLTarget.qld

Last Altered: Friday, November 25, 2016 11:34:15 Pacific Standard Time
Printed: Friday, November 25, 2016 11:34:30 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	2.933e5	9.742e2		0.124	4.67	22.9		
2	20	13C2-PFOA	369.90	9.742e2	4.569e2	0.663	0.124	4.67	0.324	321	H
3	28	13C8-PFOA	375.90	4.569e2	4.569e2	1.000	0.124	4.67	0.101	100	
4	34	Total PFOA	368.90		9.742e2		0.124		35.2		

Target = ug/L

Rev'd: MM 11/25/16 pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ugLTarget.qld

Last Altered: Friday, November 25, 2016 11:34:15 Pacific Standard Time
Printed: Friday, November 25, 2016 11:34:30 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	18877.195	540.987	3.1
2	32	Total PFBS	79.90	3.28	386.861	540.987	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	132194.453	88.564	46.4
2	33	Total PFHxS	79.91	4.30	32844.012	88.564	11.5
3	33	Total PFHxS	79.91	4.27	10804.604	88.564	3.7
4	33	Total PFHxS	79.91	4.19	366.718	88.564	0.0

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.67	293266.344	974.201	22.9
2	34	Total PFOA	368.90	4.58	158787.391	974.201	12.3

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.06	212293.422	144.470	117.4
2	35	Total PFOS	79.92	4.96	224364.031	144.470	124.1
3	35	Total PFOS	79.92	4.87	13420.146	144.470	6.7
4	35	Total PFOS	79.92	4.86	13358.707	144.470	6.6

Vista Analytical Laboratory Q1

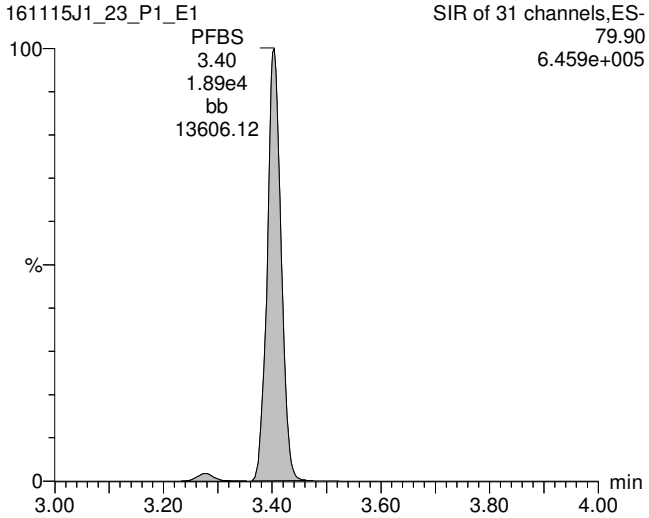
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ugLTarget.qld

Last Altered: Friday, November 25, 2016 11:34:15 Pacific Standard Time
Printed: Friday, November 25, 2016 11:34:30 Pacific Standard Time

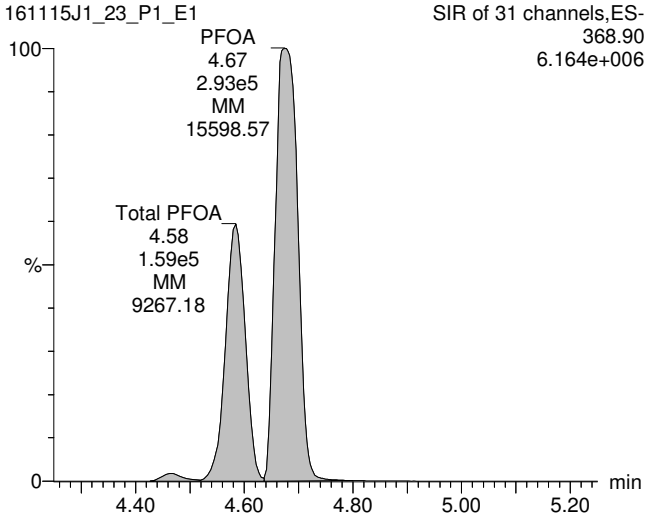
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 22 Nov 2016 14:01:16
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

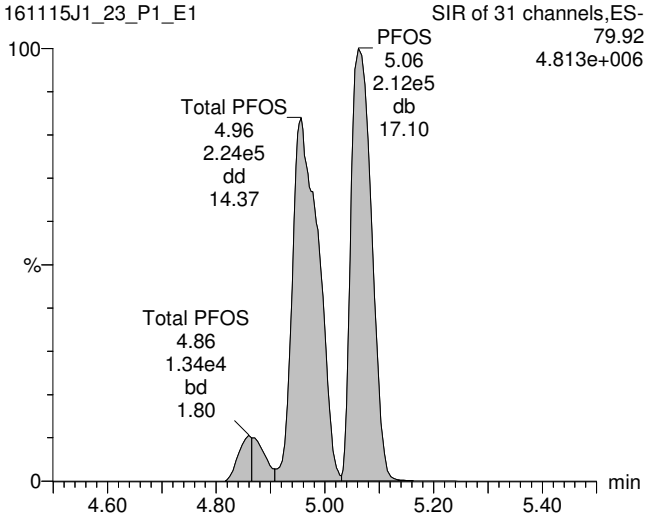
Total PFBS



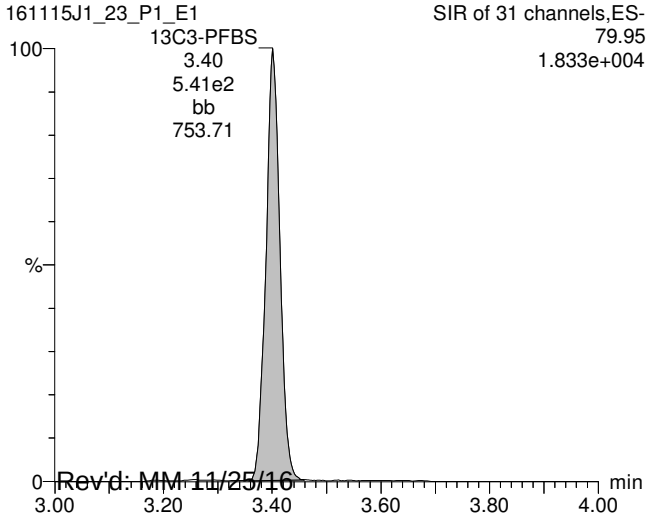
Total PFOA



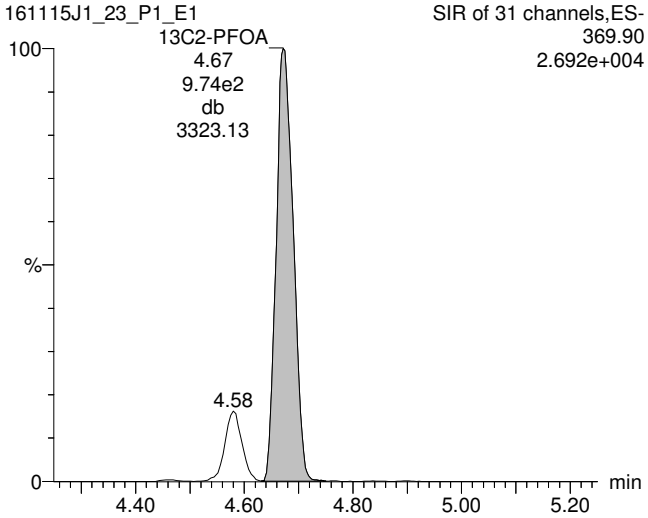
Total PFOS



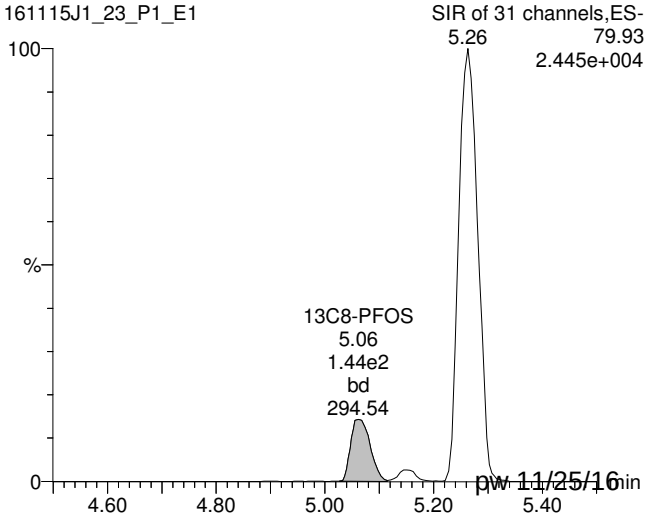
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_23_ugLTarget.qld *

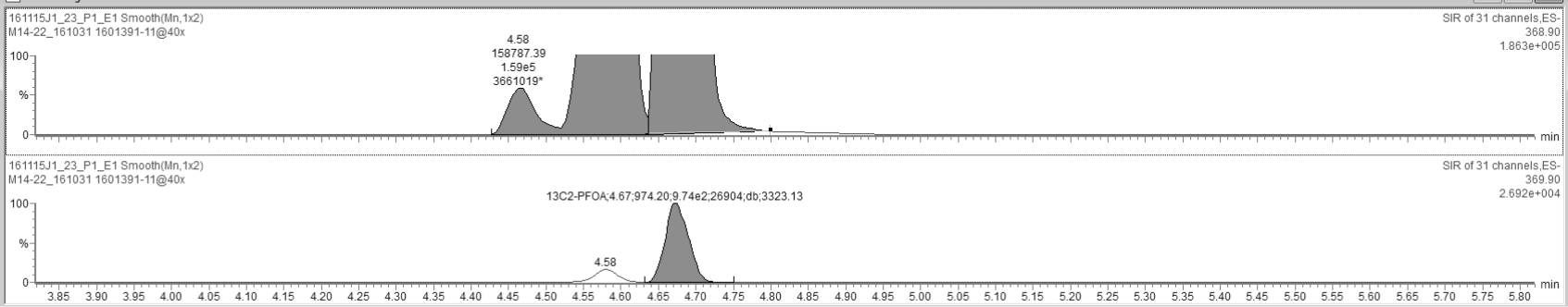
File Edit View Display Processing Window Help

161115J1_23_P1_E1 - 1601391-11@40x - M14-22_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	2.3369714	0.581			1.543e4		5.26	12	24			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
13	13C3-PFBA	0.10472539	0.000615	104.0		8.259e2	0.894	1.92	13	25			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
14	13C3-PFPeA	0.12462617	0.000497	123.8		8.893e2	0.945	3.11	14	26			0.818	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
15	13C3-PFBS	0.13501249	0.000473	134.1		5.410e2	0.531	3.40	15	26			0.895	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
16	13C2-PFHxA	0.0611512...	0.0000...	151.9		4.175e2	0.905	3.80	16	26			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
17	13C4-PFHpA	0.12090165	0.0000...	120.1		7.023e2	0.770	4.28	17	26			1.126	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
18	18O2-PFHxS	0.15167405	0.00927	150.7		8.856e1	0.276	4.40	18	27			1.001	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
19	13C2-6:2 FTS	2.3466407	0.000720	2331.4		2.329e3	0.219	4.63	19	28			0.991	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
20	13C2-PFOA	0.32354819	0.000255	321.5		9.742e2	0.663	4.67	20	28			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
21	13C5-PFNA	0.10107228	0.000255	100.4		5.925e2	1.019	5.00	21	30			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
22	13C8-PFOS	0.11139046	0.000853	110.7		1.445e2	0.921	5.06	22	29			1.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
23	13C2-PFDA	0.0942948...	0.0000...	93.7		3.564e2	0.887	5.28	23	31			1.001	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
24	13C2-8:2 FTS	0.68080980	0.000353	676.4		7.881e2	0.272	5.26	24	31			0.997	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
25	13C4-PFBA	0.10065223	0.0000...	100.0		8.877e2	1.000	1.92	25	25			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
26	13C5-PFHxA	0.10065223	0.0000...	100.0		7.596e2	1.000	3.80	26	26			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
27	13C3-PFHxS	0.10065223	0.000198	100.0		2.130e2	1.000	4.39	27	27			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
28	13C8-PFOA	0.10065223	0.000434	100.0		4.569e2	1.000	4.67	28	28			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
29	13C4-PFOS	0.10065223	0.000660	100.0		1.417e2	1.000	5.06	29	29			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
30	13C9-PFNA	0.10065223	0.000123	100.0		5.788e2	1.000	5.00	30	30			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
31	13C6-PFDA	0.10065223	0.0000...	100.0		4.290e2	1.000	5.28	31	31			0.000	15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
32	Total PFBS	3.1468626							32					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
33	Total PFHxS	61.645875							33					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
34	Total PFOA	22.908541							34					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO
35	Total PFOS	254.90429							35					15-Nov-16	20:11:52		1601391-11...	M14-22_161031	0.0	0.124	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.67	6.159e6		2.930e5				2.930e5	22.909	

Chromatogram



Ready 161115J1_23_P1_E1 NUM

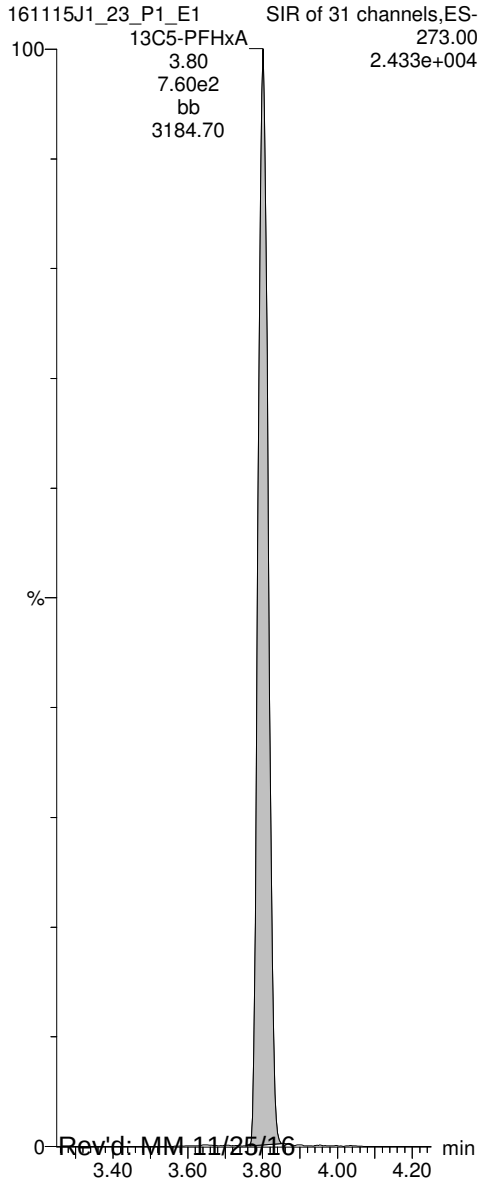
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_23_ugLTarget.qld

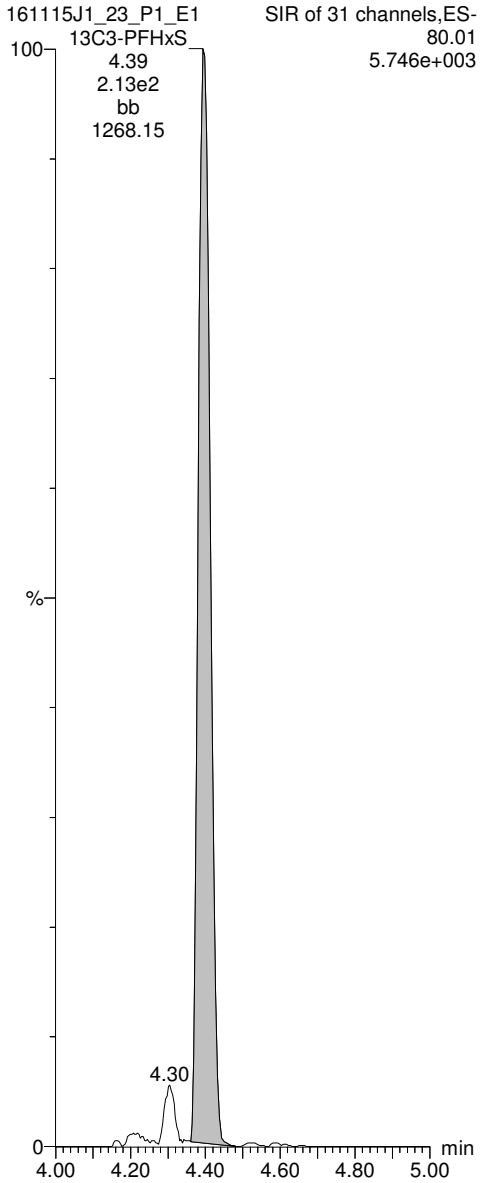
Last Altered: Friday, November 25, 2016 11:34:15 Pacific Standard Time
Printed: Friday, November 25, 2016 11:34:30 Pacific Standard Time

ID: 1601391-11@40x, Description: M14-22_161031, Name: 161115J1_23.wiff, Date: 15-Nov-2016, Time: 20:11:52, Instrument: , Lab: ©PE-SCIEX, User: sciex

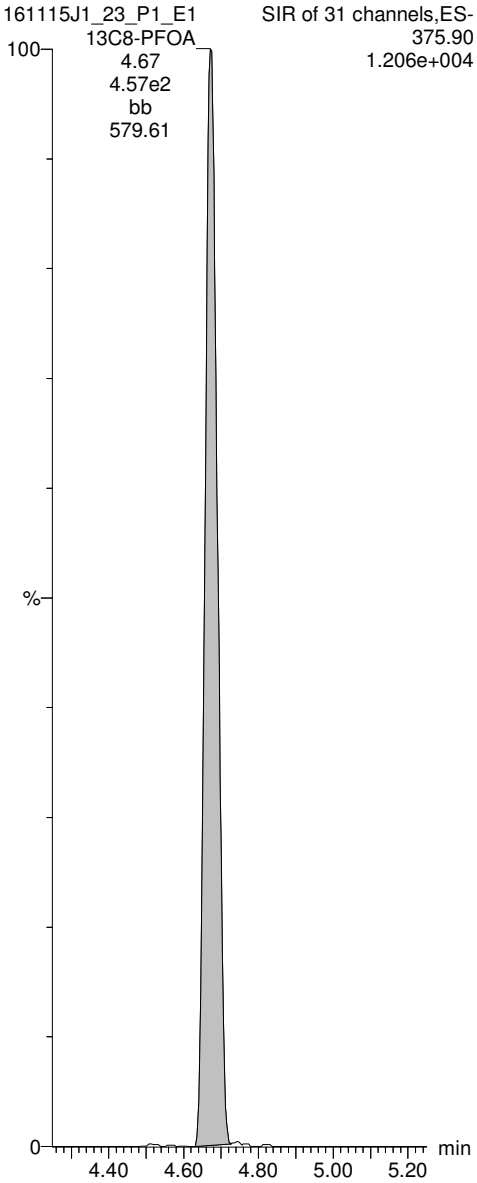
13C5-PFHxA



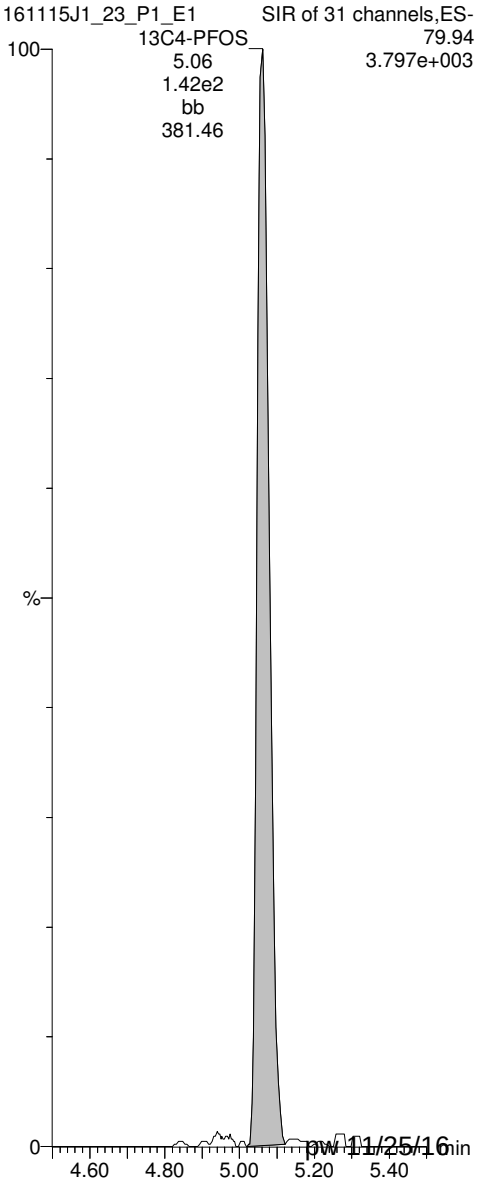
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_33_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:37:04 Pacific Standard Time
Printed: Friday, November 25, 2016 12:38:48 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MS2@40x, Description: Matrix Spike, Name: 161115J1_33.wiff, Date: 15-Nov-2016, Time: 22:14:17

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	3	PFBS	79.90	2.334e4	6.410e2		0.125	3.40	3020		
2	8	PFOA	368.90	3.166e5	1.116e3		0.125	4.68	*		
3	10	PFOS	79.92	2.234e5	1.551e2		0.125	5.08	115000		
4	15	13C3-PFBS	79.95	6.410e2	8.891e2	0.531	0.125	3.40	136	136	
5	16	13C2-PFHxA	269.90	4.888e2	8.891e2	0.905	0.125	3.80	60.7	60.8	
6	17	13C4-PFHpA	321.90	8.223e2	8.891e2	0.770	0.125	4.29	120	120	
7	18	18O2-PFHxS	102.90	9.322e1	2.795e2	0.276	0.125	4.41	121	121	
8	19	13C2-6:2 FTS	408.90	3.038e3	5.399e2	0.219	0.125	4.64	2570	2570	
9	20	13C2-PFOA	369.90	1.116e3	5.399e2	0.663	0.125	4.68	311	312	H
10	21	13C5-PFNA	422.90	7.106e2	7.790e2	1.019	0.125	5.01	89.4	89.5	
11	22	13C8-PFOS	79.93	1.551e2	1.624e2	0.921	0.125	5.07	104	104	
12	25	13C4-PFBA	171.90	1.161e3	1.161e3	1.000	0.125	1.91	99.9	100	
13	26	13C5-PFHxA	273.00	8.891e2	8.891e2	1.000	0.125	3.80	99.9	100	
14	27	13C3-PFHxS	80.01	2.795e2	2.795e2	1.000	0.125	4.40	99.9	100	
15	28	13C8-PFOA	375.90	5.399e2	5.399e2	1.000	0.125	4.68	99.9	100	
16	29	13C4-PFOS	79.94	1.624e2	1.624e2	1.000	0.125	5.07	99.9	100	
17	30	13C9-PFNA	427.00	7.790e2	7.790e2	1.000	0.125	5.01	99.9	100	
18	31	13C6-PFDA	474.00	6.074e2	6.074e2	1.000	0.125	5.30	99.9	100	
19	32	Total PFBS	79.90		6.410e2		0.125		3120		
20	34	Total PFOA	368.90		1.116e3		0.125		502 *		
21	35	Total PFOS	79.92		1.551e2		0.125		270000		

* Report ug/L Targeting

Rev'd: MM 11/25/16 pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_33_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:37:04 Pacific Standard Time
Printed: Friday, November 25, 2016 12:38:48 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MS2@40x, Description: Matrix Spike, Name: 161115J1_33.wiff, Date: 15-Nov-2016, Time: 22:14:17

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	23339.799	641.019	3018.5
2	32	Total PFBS	79.90	3.28	480.599	641.019	97.3

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.41	151617.344	93.215	27086.9
2	33	Total PFHxS	79.91	4.31	54794.797	93.215	12916.0
3	33	Total PFHxS	79.91	4.20	508.023	93.215	167.9

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	316644.938	1116.401	
2	34	Total PFOA	368.90	4.59	180338.281	1116.401	
3	34	Total PFOA	368.90	4.48	6478.504	1116.401	501.9

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.08	223446.422	155.146	114996.5
2	35	Total PFOS	79.92	4.96	266724.406	155.146	137269.6
3	35	Total PFOS	79.92	4.87	34725.633	155.146	17870.8

Vista Analytical Laboratory Q1

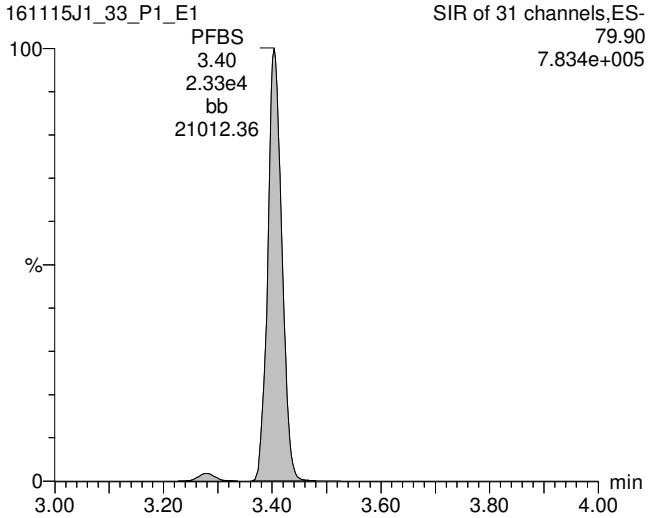
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_33_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:37:04 Pacific Standard Time
Printed: Friday, November 25, 2016 12:38:48 Pacific Standard Time

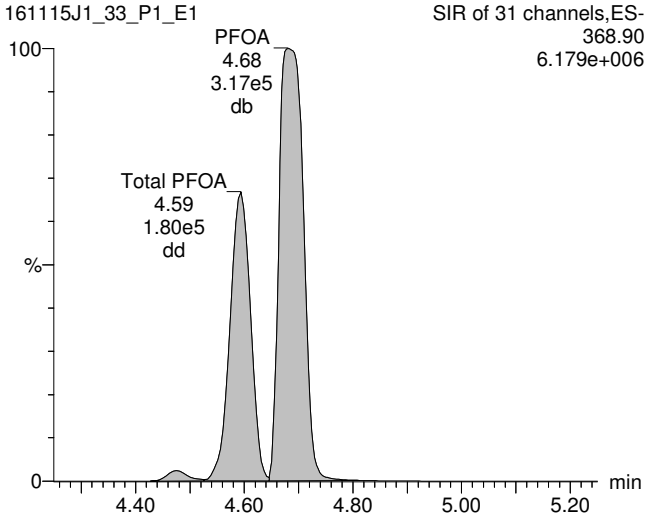
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MS2@40x, Description: Matrix Spike, Name: 161115J1_33.wiff, Date: 15-Nov-2016, Time: 22:14:17, Instrument: , Lab: ©PE-SCIEX, User: sciex

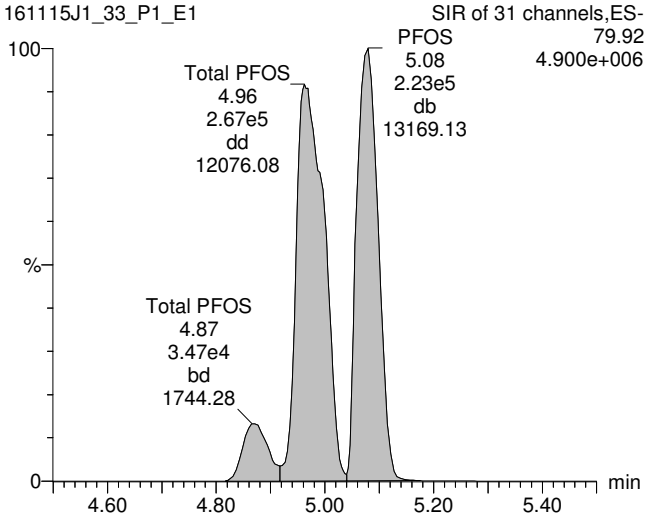
Total PFBS



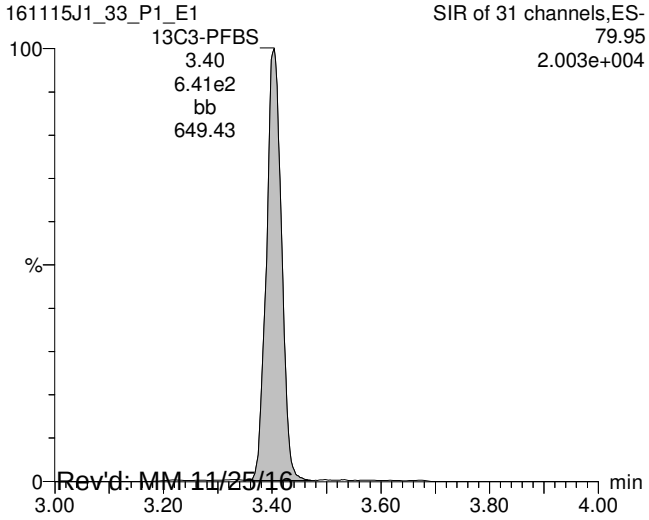
Total PFOA



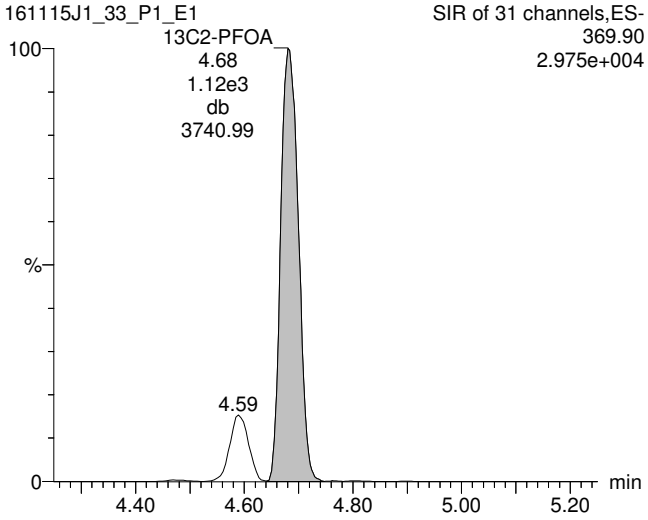
Total PFOS



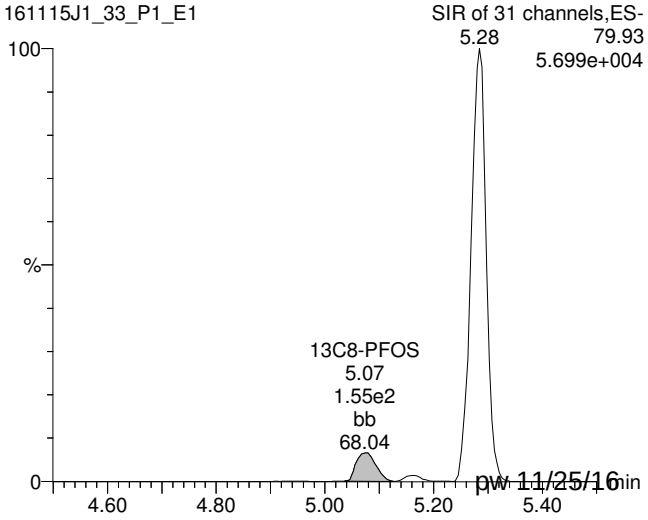
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_33_ngLTarget.qld

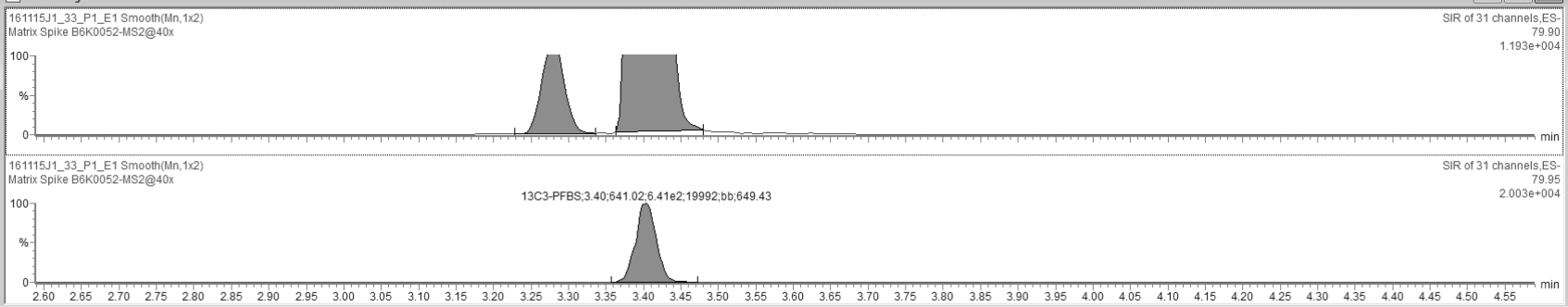
File Edit View Display Processing Window Help

161115J1_33_P1_E1 - B6K0052-MS2@40x - Matrix Spike

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.688e4		5.28	12	24			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
13	13C3-PFBA	96.319859	0.278	96.4		1.001e3	0.894	1.92	13	25			1.002	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
14	13C3-PFPeA	122.59066	1.04	122.7		1.032e3	0.945	3.11	14	26			0.818	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
15	13C3-PFBS	135.65290	0.536	135.8		6.410e2	0.531	3.40	15	26			0.895	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
16	13C2-PFHxA	60.717280	0.0244	60.8		4.888e2	0.905	3.80	16	26			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
17	13C4-PFHpA	120.03446	0.0719	120.2		8.223e2	0.770	4.29	17	26			1.128	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
18	18O2-PFHxS	120.71360	1.48	120.8		9.322e1	0.276	4.41	18	27			1.001	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
19	13C2-6:2 FTS	2570.2161	0.502	2572.9		3.038e3	0.219	4.64	19	28			0.992	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
20	13C2-PFOA	311.36631	0.210	311.7		1.116e3	0.663	4.68	20	28			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
21	13C5-PFNA	89.391665	0.0000...	89.5		7.106e2	1.019	5.01	21	30			1.001	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
22	13C8-PFOS	103.55494	3.70	103.7		1.551e2	0.921	5.07	22	29			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
23	13C2-PFDA	70.574434	0.403	70.6		3.805e2	0.887	5.30	23	31			1.001	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
24	13C2-8:2 FTS	580.39980	0.327	581.0		9.585e2	0.272	5.28	24	31			0.997	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
25	13C4-PFBA	99.896108	0.262	100.0		1.161e3	1.000	1.91	25	25			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
26	13C5-PFHxA	99.896108	0.0278	100.0		8.891e2	1.000	3.80	26	26			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
27	13C3-PFHxS	99.896108	0.117	100.0		2.795e2	1.000	4.40	27	27			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
28	13C8-PFOA	99.896108	0.295	100.0		5.399e2	1.000	4.68	28	28			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
29	13C4-PFOS	99.896108	0.307	100.0		1.624e2	1.000	5.07	29	29			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
30	13C9-PFNA	99.896108	0.0430	100.0		7.790e2	1.000	5.01	30	30			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
31	13C6-PFDA	99.896108	0.109	100.0		6.074e2	1.000	5.30	31	31			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
32	Total PFBS	3115.7712							32					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
33	Total PFHxS	40170.893							33					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
34	Total PFOA	501.91547							34					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
35	Total PFOS	270136.88							35					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.40	7.829e5		2.334e4				2.334e4	3018.5	
2	Total PFBS	3.28	1.366e4		4.806e2				4.806e2	97.252	

Chromatogram



Ready 161115J1_33_P1_E1 NUM

TargetLynx - 161115J1_33_ngLTarget.qld

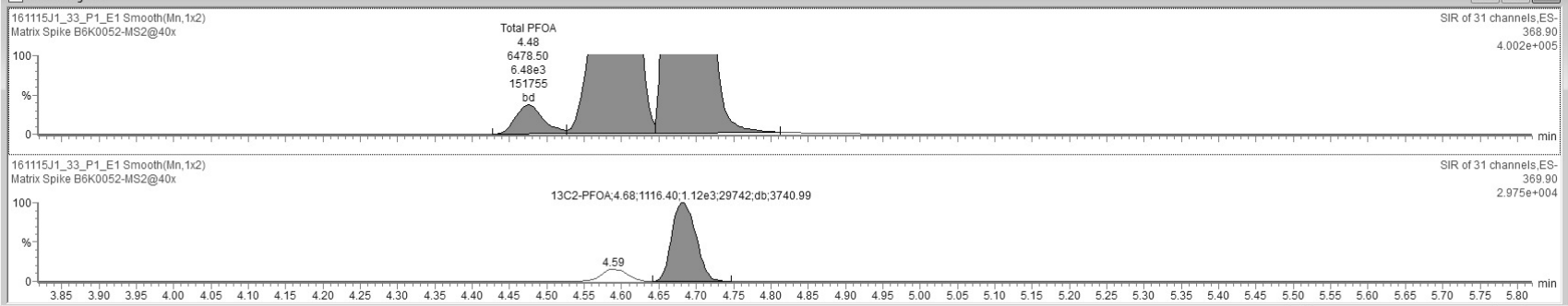
File Edit View Display Processing Window Help

161115J1_33_P1_E1 - B6K0052-MS2@40x - Matrix Spike

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.688e4		5.28	12	24			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
13	13C3-PFBA	96.319859	0.278	96.4		1.001e3	0.894	1.92	13	25			1.002	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
14	13C3-PFPeA	122.59066	1.04	122.7		1.032e3	0.945	3.11	14	26			0.818	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
15	13C3-PFBS	135.65290	0.536	135.8		6.410e2	0.531	3.40	15	26			0.895	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
16	13C2-PFHxA	60.717280	0.0244	60.8		4.888e2	0.905	3.80	16	26			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
17	13C4-PFHpA	120.03446	0.0719	120.2		8.223e2	0.770	4.29	17	26			1.128	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
18	18O2-PFHxS	120.71360	1.48	120.8		9.322e1	0.276	4.41	18	27			1.001	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
19	13C2-6:2 FTS	2570.2161	0.502	2572.9		3.038e3	0.219	4.64	19	28			0.992	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
20	13C2-PFOA	311.36631	0.210	311.7		1.116e3	0.663	4.68	20	28			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
21	13C5-PFNA	89.391665	0.0000...	89.5		7.106e2	1.019	5.01	21	30			1.001	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
22	13C8-PFOS	103.55494	3.70	103.7		1.551e2	0.921	5.07	22	29			1.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
23	13C2-PFDA	70.574434	0.403	70.6		3.805e2	0.887	5.30	23	31			1.001	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
24	13C2-8:2 FTS	580.39980	0.327	581.0		9.585e2	0.272	5.28	24	31			0.997	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
25	13C4-PFBA	99.896108	0.262	100.0		1.161e3	1.000	1.91	25	25			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
26	13C5-PFHxA	99.896108	0.0278	100.0		8.891e2	1.000	3.80	26	26			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
27	13C3-PFHxS	99.896108	0.117	100.0		2.795e2	1.000	4.40	27	27			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
28	13C8-PFOA	99.896108	0.295	100.0		5.399e2	1.000	4.68	28	28			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
29	13C4-PFOS	99.896108	0.307	100.0		1.624e2	1.000	5.07	29	29			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
30	13C9-PFNA	99.896108	0.0430	100.0		7.790e2	1.000	5.01	30	30			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
31	13C6-PFDA	99.896108	0.109	100.0		6.074e2	1.000	5.30	31	31			0.000	15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	YES
32	Total PFBS	3115.7712							32					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
33	Total PFHxS	40170.893							33					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
34	Total PFOA	501.91547							34					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO
35	Total PFOS	270136.88							35					15-Nov-16	22:14:17		B6K0052-M...	Matrix Spike	0.0	0.125	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.68	6.172e6		3.166e5				3.166e5		
2	Total PFOA	4.59	4.120e6		1.803e5				1.803e5		
3	Total PFOA	4.48	1.518e5		6.479e3				6.479e3	501.92	

Chromatogram



Ready 161115J1_33_P1_E1 NUM

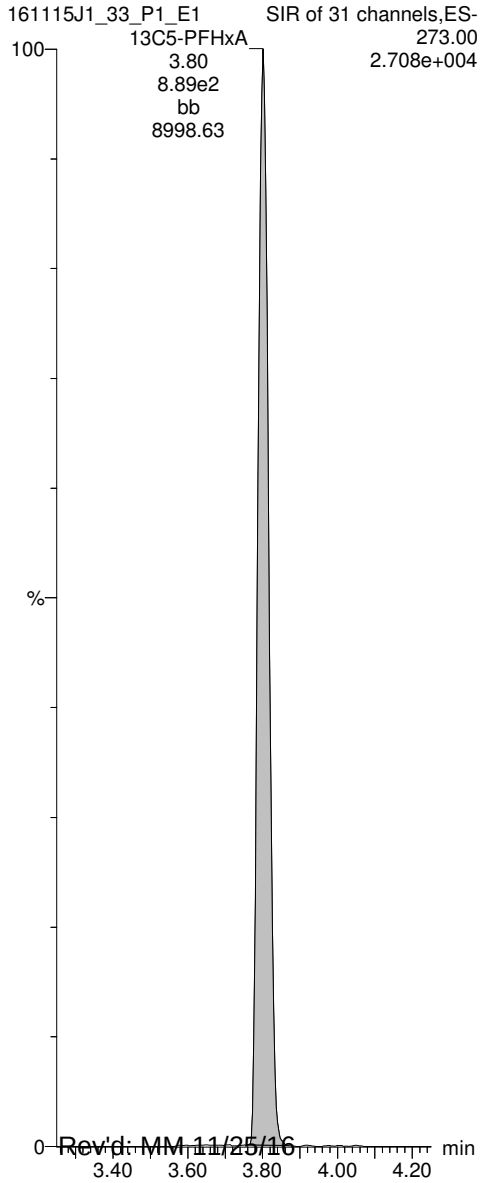
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_33_ngLTarget.qld

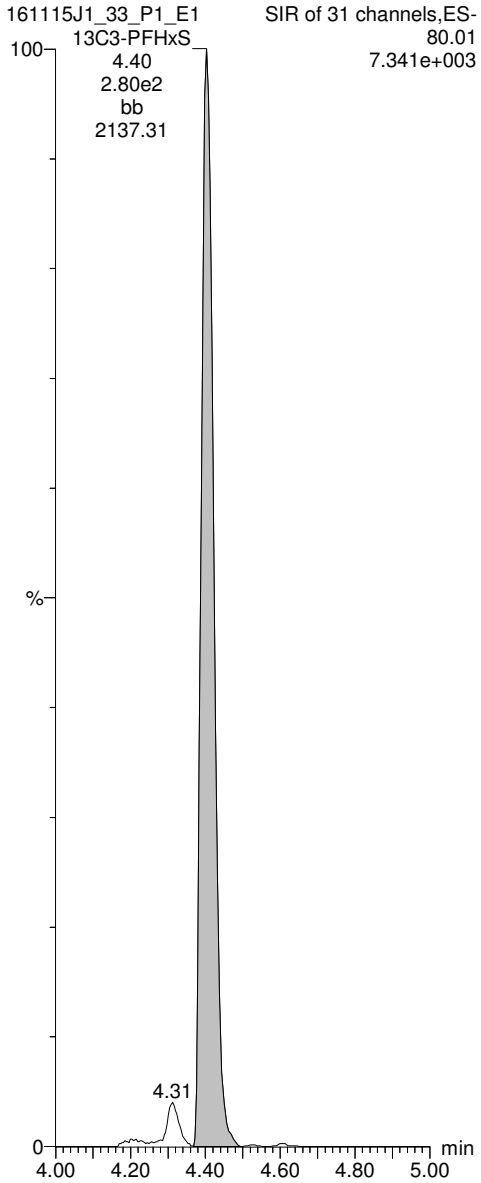
Last Altered: Friday, November 25, 2016 12:37:04 Pacific Standard Time
Printed: Friday, November 25, 2016 12:38:48 Pacific Standard Time

ID: B6K0052-MS2@40x, Description: Matrix Spike, Name: 161115J1_33.wiff, Date: 15-Nov-2016, Time: 22:14:17, Instrument: , Lab: ©PE-SCIEX, User: sciex

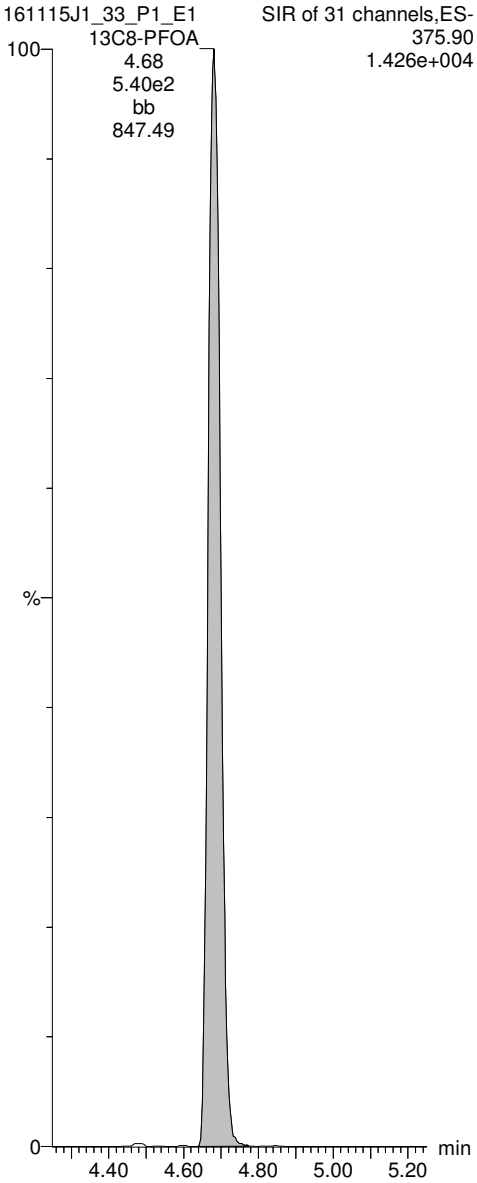
13C5-PFHxA



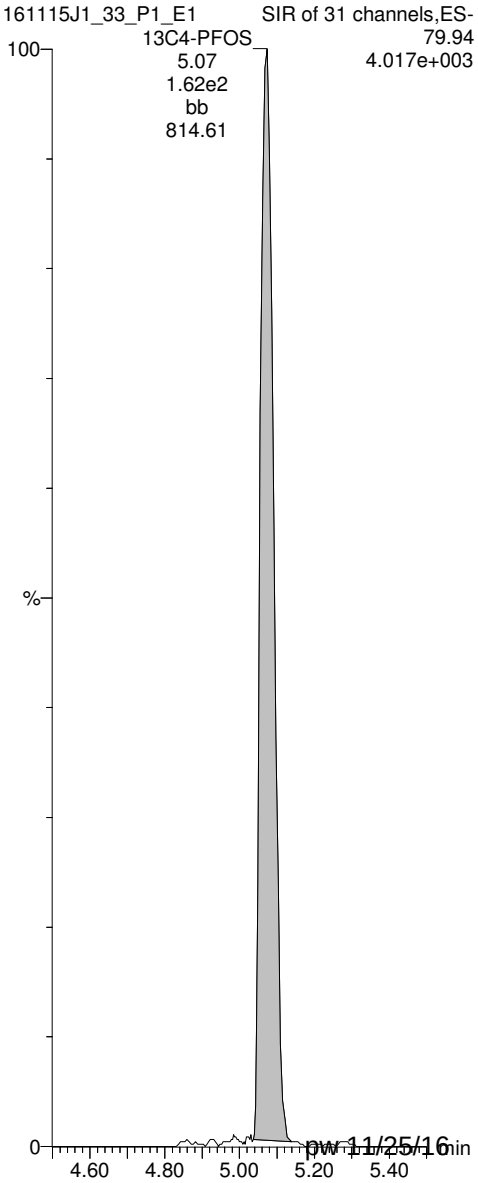
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_35_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:50:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:51:20 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MSD2@40x, Description: Matrix Spike Dup, Name: 161115J1_35.wiff, Date: 15-Nov-2016, Time: 22:38:46

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	2.850e5	8.961e2		0.127	4.67	23.8		
2	20	13C2-PFOA	369.90	8.961e2	4.369e2	0.663	0.127	4.67	0.305	309	H
3	28	13C8-PFOA	375.90	4.369e2	4.369e2	1.000	0.127	4.67	0.0987	100	
4	34	Total PFOA	368.90		8.961e2		0.127		35.9		

Target = ug/L

Rev'd: MM 11/25/16 pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_35_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:50:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:51:20 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MSD2@40x, Description: Matrix Spike Dup, Name: 161115J1_35.wiff, Date: 15-Nov-2016, Time: 22:38:46

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	16992.389	471.726	3.2
2	32	Total PFBS	79.90	3.28	333.603	471.726	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	127402.813	77.825	50.0
2	33	Total PFHxS	79.91	4.31	32441.707	77.825	12.7
3	33	Total PFHxS	79.91	4.28	9048.580	77.825	3.5
4	33	Total PFHxS	79.91	4.19	328.627	77.825	0.0

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.67	285020.375	896.134	23.8
2	34	Total PFOA	368.90	4.58	147817.344	896.134	12.2

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.06	210993.875	135.911	121.7
2	35	Total PFOS	79.92	4.97	89892.383	135.911	51.4
3	35	Total PFOS	79.92	4.95	131290.547	135.911	75.4
4	35	Total PFOS	79.92	4.85	25179.520	135.911	13.8

Vista Analytical Laboratory Q1

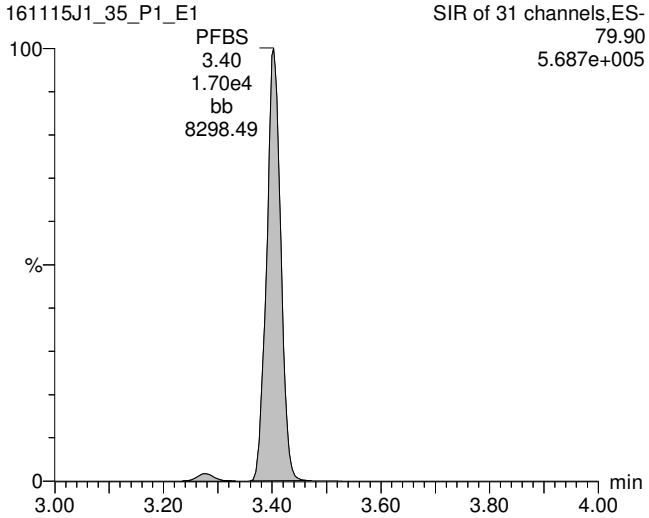
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_35_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:50:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:51:20 Pacific Standard Time

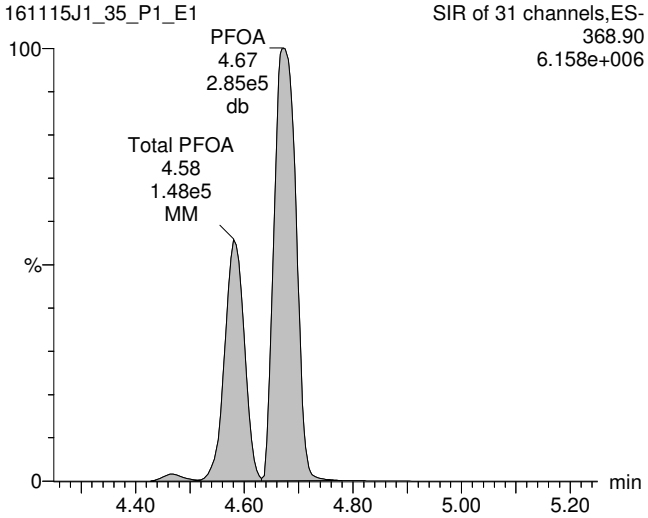
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: B6K0052-MSD2@40x, Description: Matrix Spike Dup, Name: 161115J1_35.wiff, Date: 15-Nov-2016, Time: 22:38:46, Instrument: , Lab: ©PE-SCIEX, User: sciex

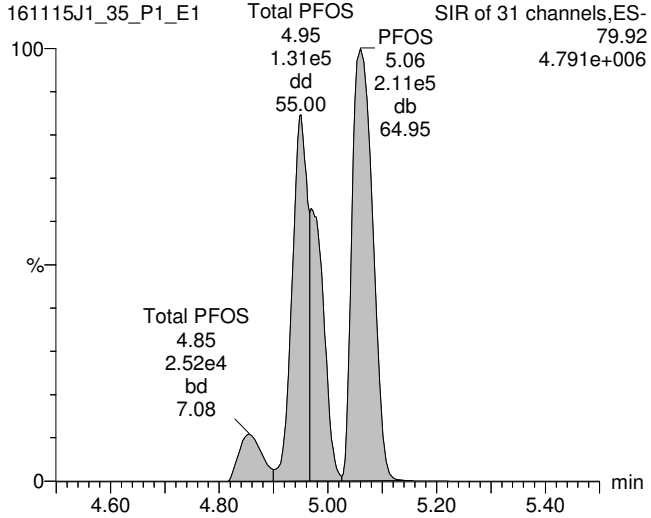
Total PFBS



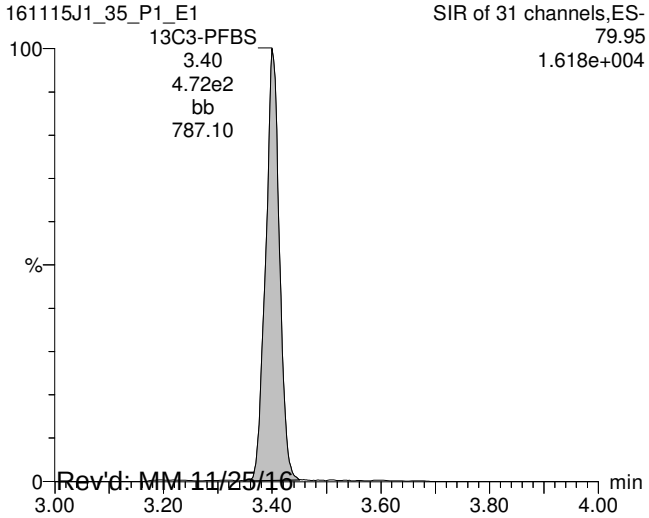
Total PFOA



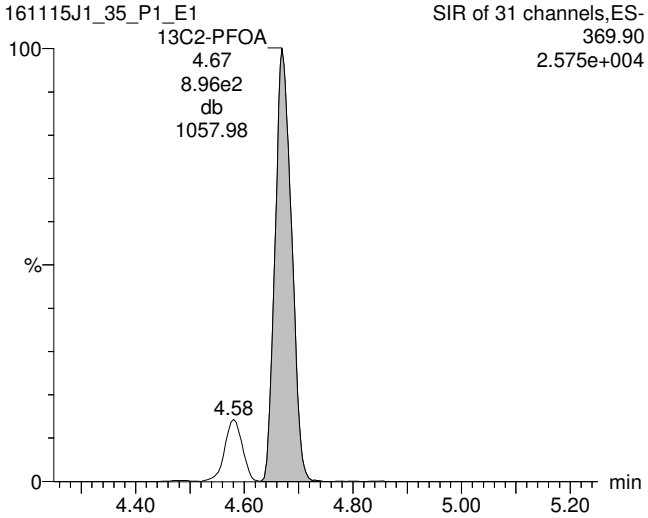
Total PFOS



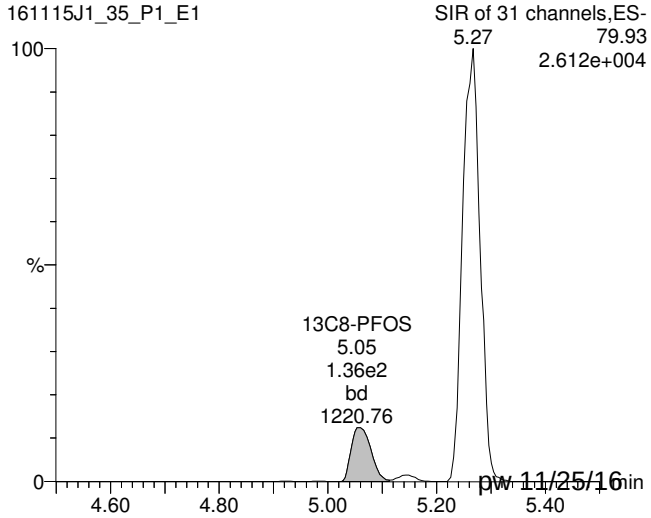
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_35_ugLTarget.qld *

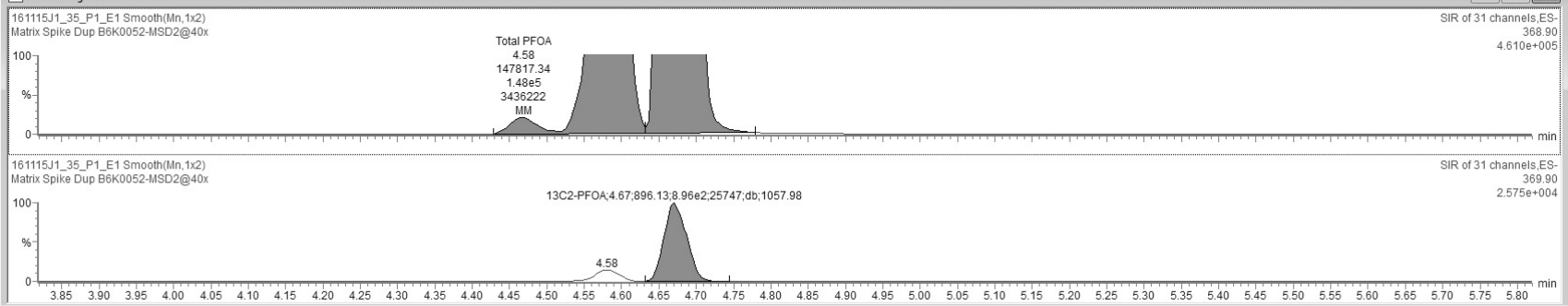
File Edit View Display Processing Window Help

161115J1_35_P1_E1 - B6K0052-MSD2@40x - Matrix Spike Dup

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	1.9498517	0.570			1.275e4		5.26	12	24			1.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
13	13C3-PFBA	0.0916087...	0.000609	92.8		7.087e2	0.894	1.92	13	25			1.002	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
14	13C3-PFPeA	0.11222967	0.000578	113.7		7.585e2	0.945	3.11	14	26			0.819	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
15	13C3-PFBS	0.12428845	0.000426	125.9		4.717e2	0.531	3.40	15	26			0.896	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
16	13C2-PFHxA	0.0592246...	0.0000...	150.0		3.830e2	0.905	3.80	16	26			1.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
17	13C4-PFHpA	0.11684879	0.000104	118.4		6.429e2	0.770	4.28	17	26			1.128	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
18	18O2-PFHxS	0.12815604	0.00275	129.8		7.783e1	0.276	4.40	18	27			1.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
19	13C2-6:2 FTS	2.4224463	0.000329	2454.4		2.345e3	0.219	4.63	19	28			0.991	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
20	13C2-PFOA	0.30518354	0.000767	309.2		8.961e2	0.663	4.67	20	28			1.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
21	13C5-PFNA	0.0984445...	0.0000...	99.7		5.446e2	1.019	5.00	21	30			1.001	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
22	13C8-PFOS	0.10919393	0.000206	110.6		1.359e2	0.921	5.05	22	29			1.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
23	13C2-PFDA	0.0826973...	0.0000...	83.8		2.896e2	0.887	5.28	23	31			1.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
24	13C2-8:2 FTS	0.75716837	0.000345	767.2		8.121e2	0.272	5.26	24	31			0.996	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
25	13C4-PFBA	0.0986971...	0.0000...	100.0		8.538e2	1.000	1.91	25	25			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
26	13C5-PFHxA	0.0986971...	0.000147	100.0		7.056e2	1.000	3.80	26	26			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
27	13C3-PFHxS	0.0986971...	0.000567	100.0		2.172e2	1.000	4.40	27	27			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
28	13C8-PFOA	0.0986971...	0.0125	100.0		4.369e2	1.000	4.67	28	28			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
29	13C4-PFOS	0.0986971...	0.000383	100.0		1.333e2	1.000	5.05	29	29			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
30	13C9-PFNA	0.0986971...	0.0000...	100.0		5.356e2	1.000	5.00	30	30			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
31	13C6-PFDA	0.0986971...	0.0000...	100.0		3.897e2	1.000	5.28	31	31			0.000	15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
32	Total PFBS	3.2352857							32					15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
33	Total PFHxS	66.091906							33					15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
34	Total PFOA	35.941941							34					15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO
35	Total PFOS	262.36052							35					15-Nov-16	22:38:46		B6K0052-M...	Matrix Spike Dup	0.0	0.127	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.67	6.152e6		2.850e5				2.850e5	23.781	
2	Total PFOA	4.58	3.436e6		1.478e5				1.478e5	12.161	

Chromatogram



Ready 161115J1_35_P1_E1 NUM

Rev'd: MM 11/25/16 pw 11/25/16

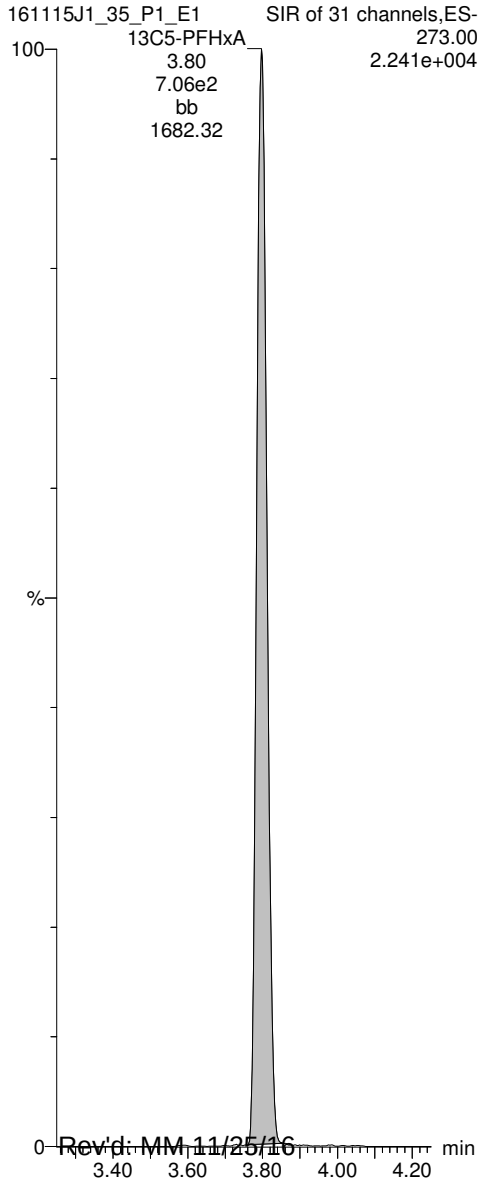
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_35_ugLTarget.qld

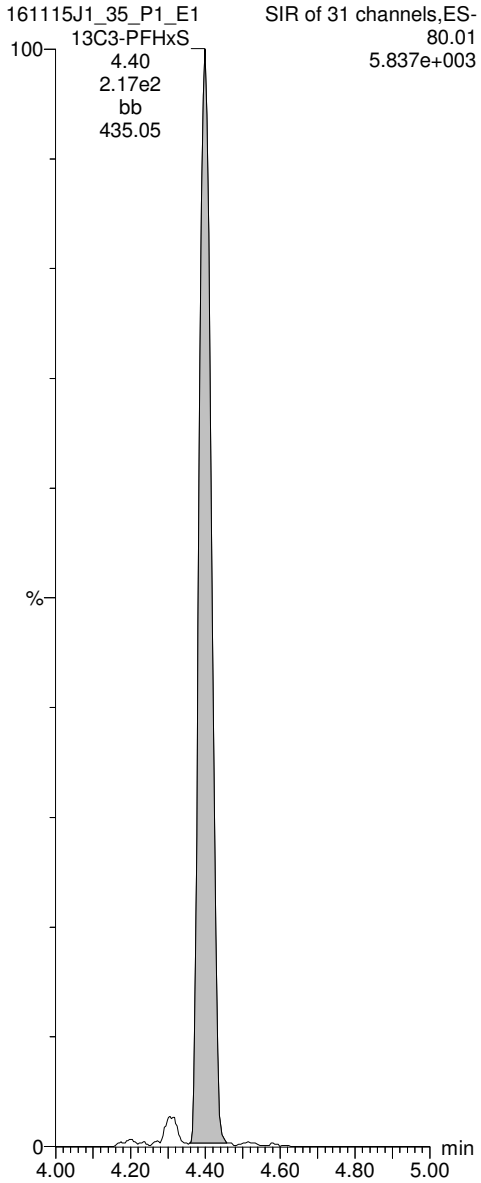
Last Altered: Friday, November 25, 2016 12:50:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:51:20 Pacific Standard Time

ID: B6K0052-MSD2@40x, Description: Matrix Spike Dup, Name: 161115J1_35.wiff, Date: 15-Nov-2016, Time: 22:38:46, Instrument: , Lab: ©PE-SCIEX, User: sciex

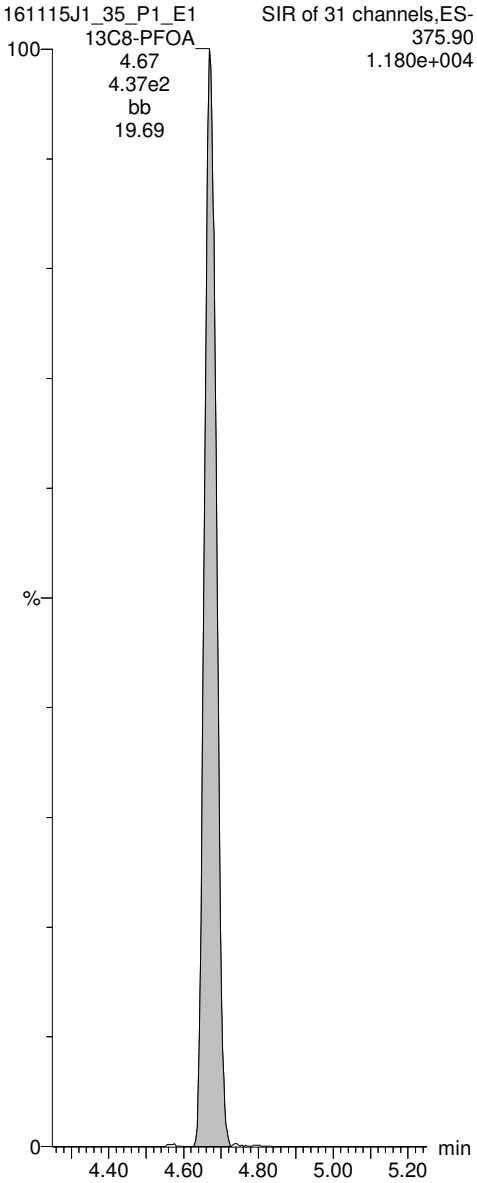
13C5-PFHxA



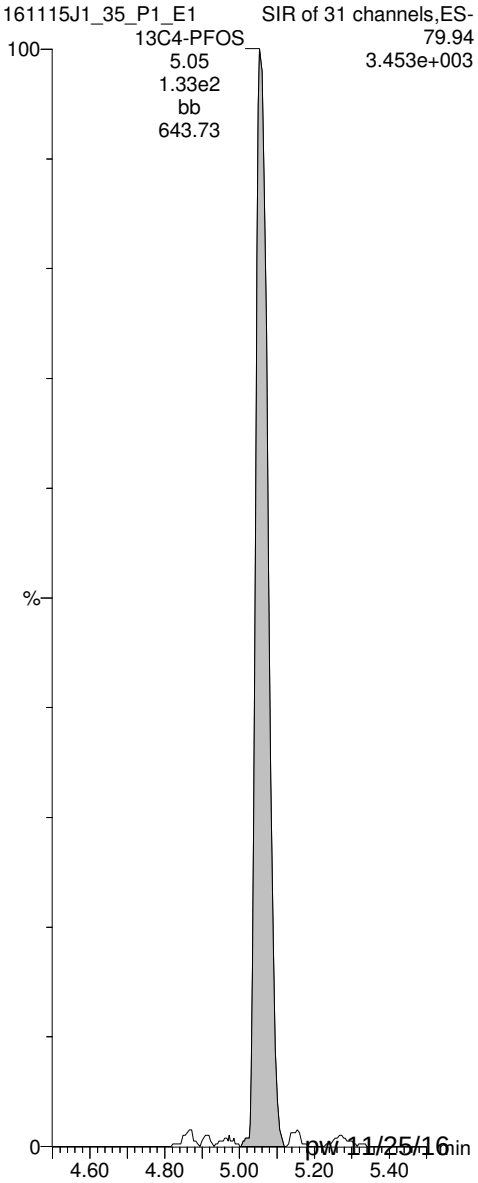
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_31.qld

Last Altered: Wednesday, November 16, 2016 10:32:32 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:37:31 Pacific Standard Time

Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 15 Nov 2016 16:30:48
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-12, Description: EB17_161031, Name: 161114J2_31.wiff, Date: 14-Nov-2016, Time: 22:09:41

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90		6.750e3		0.128			
2	8	PFOA	368.90	1.703e3	7.036e3		0.128	4.69	17.8	
3	10	PFOS	79.92	5.930e2	3.171e3		0.128	5.07	13.8	
4	15	13C3-PFBS	79.95	6.750e3	1.061e4	0.531	0.128	3.41	117	120
5	16	13C2-PFHxA	269.90	3.964e3	1.061e4	0.905	0.128	3.81	40.3	103
6	17	13C4-PFHpA	321.90	7.650e3	1.061e4	0.770	0.128	4.29	91.4	93.7
7	18	18O2-PFHxS	102.90	1.314e3	4.596e3	0.276	0.128	4.40	101	104
8	19	13C2-6:2 FTS	408.90	1.983e3	1.056e4	0.219	0.128	4.64	83.7	85.8
9	20	13C2-PFOA	369.90	7.036e3	1.056e4	0.663	0.128	4.68	97.9	100
10	21	13C5-PFNA	422.90	5.663e3	5.491e3	1.019	0.128	5.00	98.6	101
11	22	13C8-PFOS	79.93	3.171e3	3.267e3	0.921	0.128	5.05	103	105
12	26	13C5-PFHxA	273.00	1.061e4	1.061e4	1.000	0.128	3.81	97.5	100
13	27	13C3-PFHxS	80.01	4.596e3	4.596e3	1.000	0.128	4.40	97.5	100
14	28	13C8-PFOA	375.90	1.056e4	1.056e4	1.000	0.128	4.68	97.5	100
15	29	13C4-PFOS	79.94	3.267e3	3.267e3	1.000	0.128	5.05	97.5	100
16	30	13C9-PFNA	427.00	5.491e3	5.491e3	1.000	0.128	5.00	97.5	100
17	31	13C6-PFDA	474.00	4.544e3	4.544e3	1.000	0.128	5.28	97.5	100
18	32	Total PFBS	79.90		6.750e3		0.128			
19	34	Total PFOA	368.90		7.036e3		0.128		20.1	
20	35	Total PFOS	79.92		3.171e3		0.128		21.7	

Rev'd: MM 11/22/16 AC 11/16/16

Vista Analytical Laboratory Q1

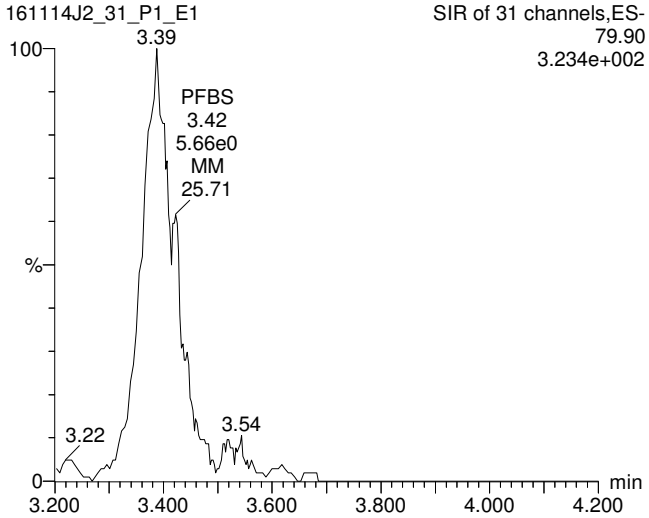
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_31.qld

Last Altered: Wednesday, November 16, 2016 10:32:32 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:37:31 Pacific Standard Time

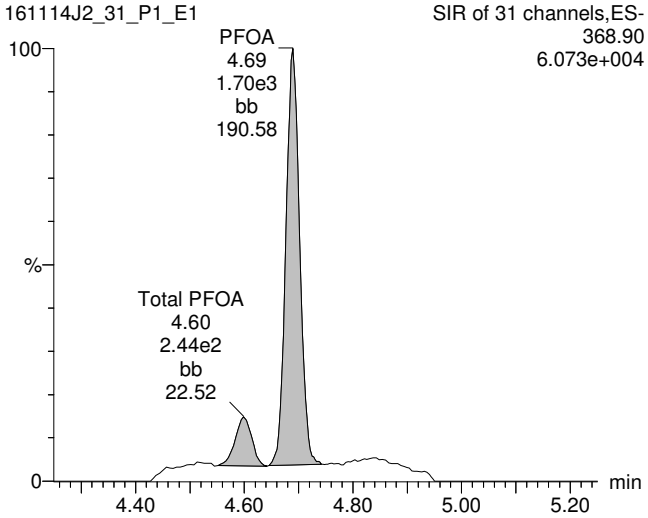
Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 15 Nov 2016 16:30:48
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-12, Description: EB17_161031, Name: 161114J2_31.wiff, Date: 14-Nov-2016, Time: 22:09:41, Instrument: , Lab: ©PE-SCIEX, User: sciex

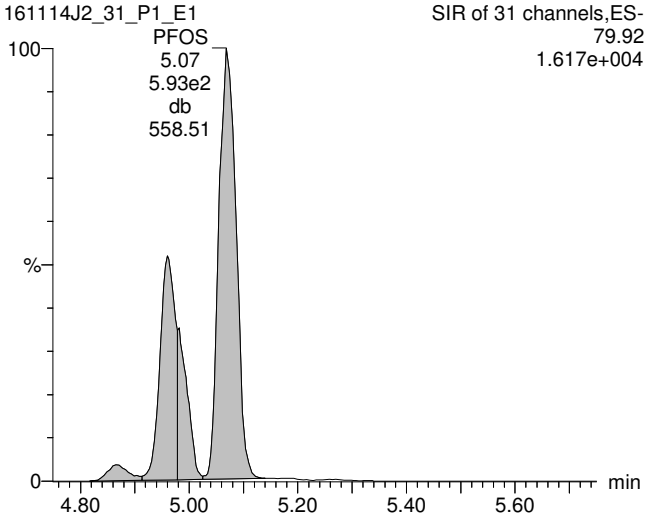
Total PFBS



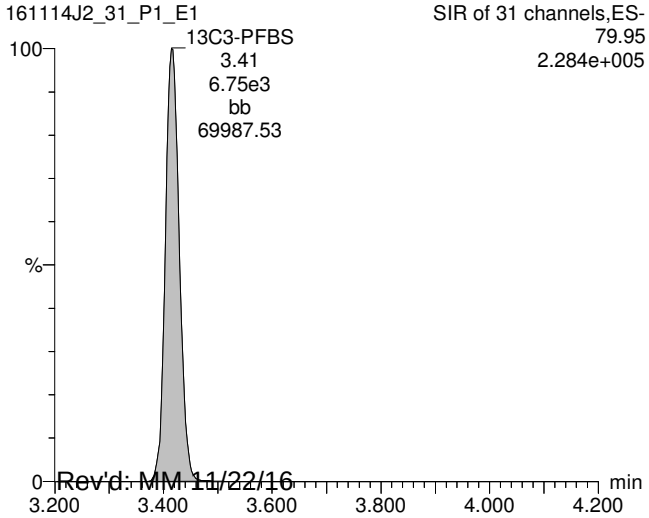
Total PFOA



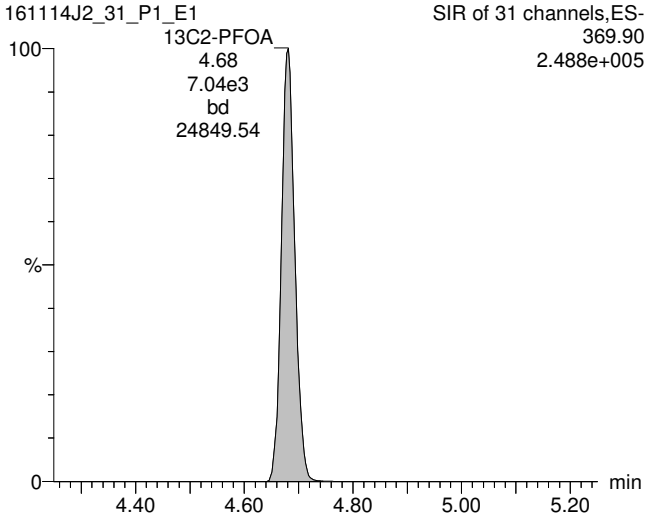
Total PFOS



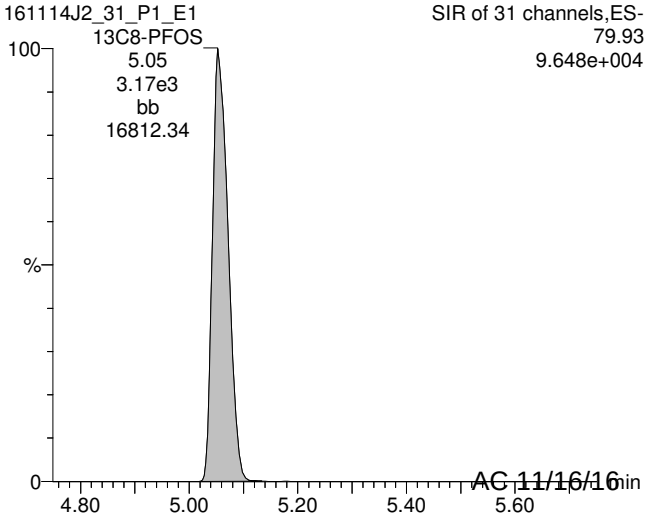
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/22/16 AC 11/16/16

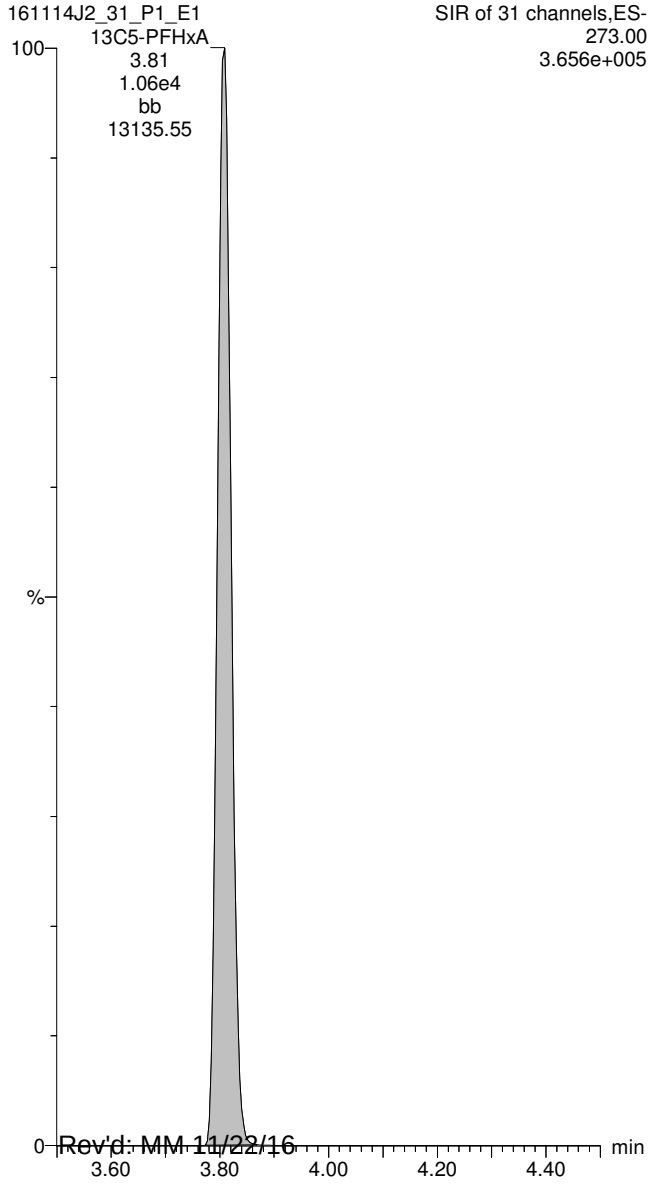
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_31.qld

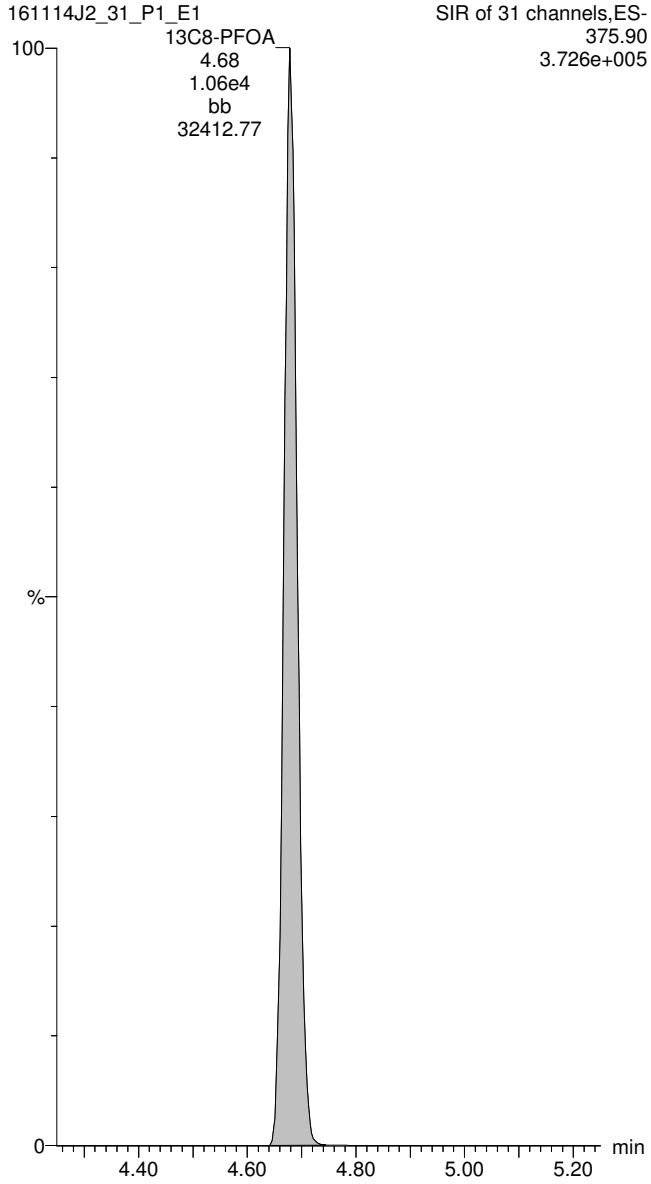
Last Altered: Wednesday, November 16, 2016 10:32:32 Pacific Standard Time
Printed: Wednesday, November 16, 2016 10:37:31 Pacific Standard Time

ID: 1601391-12, Description: EB17_161031, Name: 161114J2_31.wiff, Date: 14-Nov-2016, Time: 22:09:41, Instrument: , Lab: ©PE-SCIEX, User: sciex

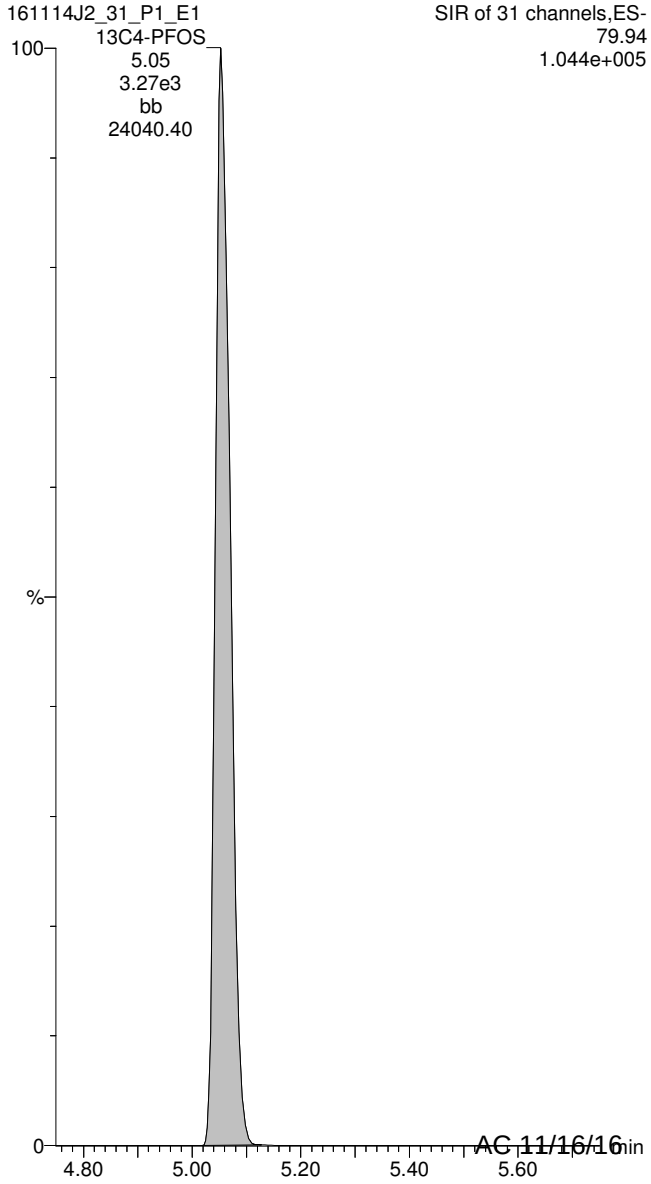
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/22/16 AC 11/16/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-10.qld

Last Altered: Wednesday, November 30, 2016 11:33:44 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:34:21 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-13 EB-M14-22_161031 0.12671, Description: EB-M14-22_161031, Name: 161130G1_10, Date: 30-Nov-2016, Time: 10:06:00

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		6.147e3		0.127			
2	8	PFOA	413 > 368.7	2.974e2	2.357e4		0.127	4.34	0.579	
3	10	PFOS	499 >79.9		7.571e3		0.127			
4	16	13C3-PFBS	302.0 > 98.8	6.147e3	1.889e4	0.302	0.127	3.07	106	108
5	17	13C2-PFHxA	315 > 269.8	4.720e3	1.889e4	0.620	0.127	3.44	39.8	101
6	18	13C4-PFHpA	367.2 > 321.8	1.449e4	1.215e4	1.139	0.127	3.94	103	105
7	19	18O2-PFHxS	403 > 102.6	5.915e3	1.215e4	0.449	0.127	4.06	107	108
8	20	13C2-6:2 FTS	429.1 > 408.9	4.005e3	4.985e3	1.073	0.127	4.29	73.8	74.9
9	21	13C2-PFOA	414.9 > 369.7	2.357e4	9.307e3	2.262	0.127	4.34	110	112
10	22	13C8-PFOS	507.0 > 79.9	7.571e3	5.582e3	0.944	0.127	4.74	142	144
11	28	13C5-PFHxA	318.0 > 272.9	1.889e4	1.889e4	1.000	0.127	3.44	98.7	100
12	29	13C3-PFHxS	401.9 > 79.9	1.215e4	1.215e4	1.000	0.127	4.06	98.7	100
13	30	13C8-PFOA	421.3 > 376	9.307e3	9.307e3	1.000	0.127	4.34	98.7	100
14	31	13C4-PFOS	503.0 > 79.9	5.582e3	5.582e3	1.000	0.127	4.74	98.7	100
15	32	13C9-PFNA	472.2 > 426.9	1.070e4	1.070e4	1.000	0.127	4.68	98.7	100
16	33	13C6-PFDA	519.1 > 473.7	1.052e4	1.052e4	1.000	0.127	4.97	98.7	100
17	34	Total PFBS	299 > 79.7		5.915e3		0.127			
18	36	Total PFOA	413 > 368.7		2.357e4		0.127		0.579	
19	37	Total PFOS	499 > 79.9		7.571e3		0.127			

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

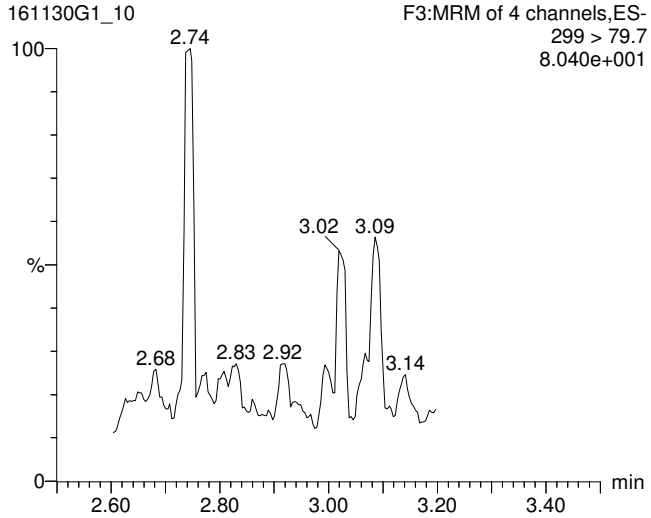
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-10.qld

Last Altered: Wednesday, November 30, 2016 11:33:44 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:34:21 Pacific Standard Time

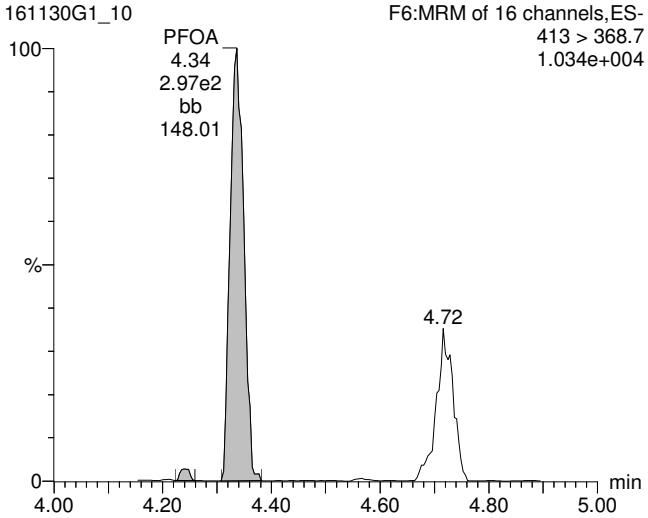
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-13 EB-M14-22_161031 0.12671, Description: EB-M14-22_161031, Name: 161130G1_10, Date: 30-Nov-2016, Time: 10:06:00, Instrument: , Lab: , User:

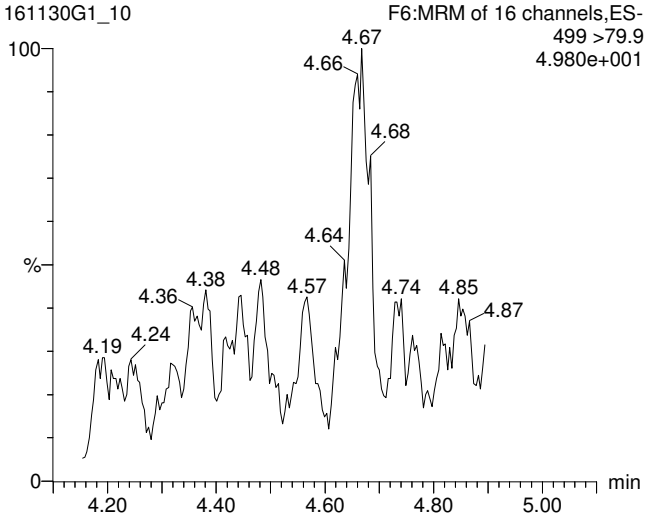
Total PFBS



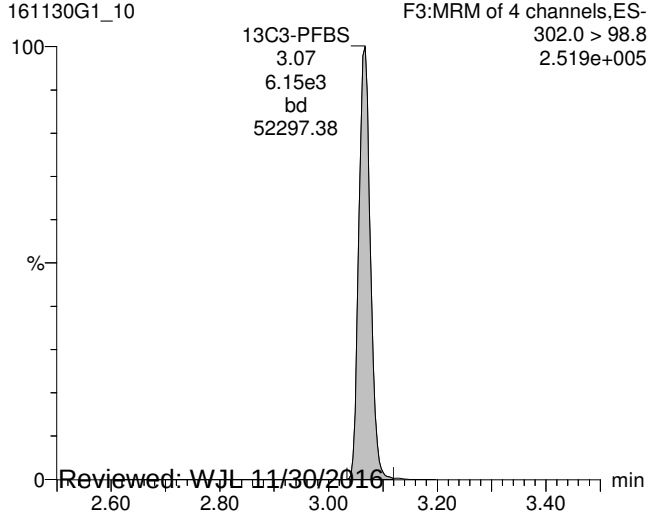
Total PFOA



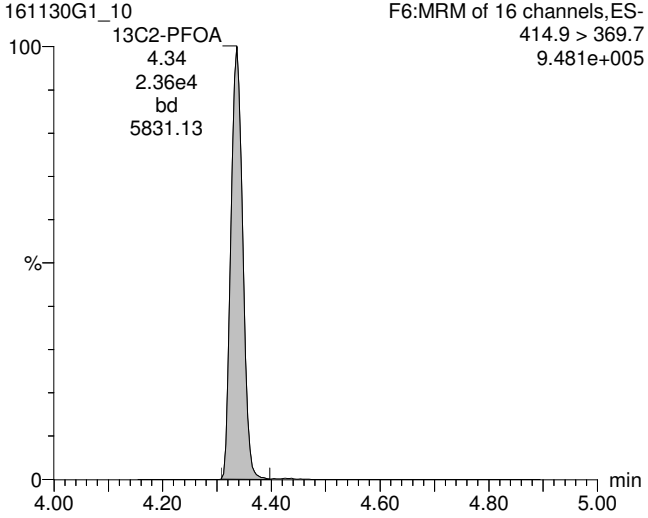
Total PFOS



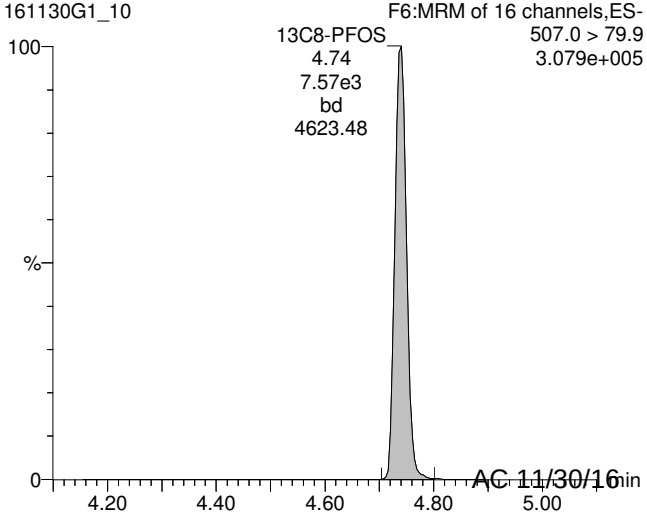
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

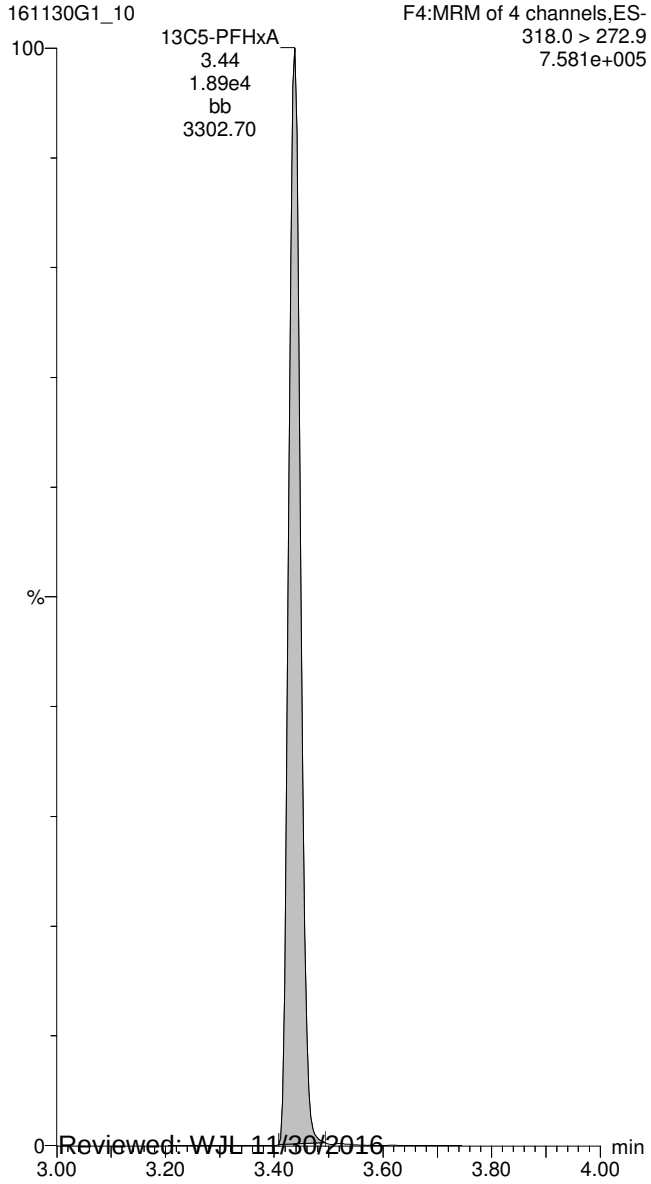
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-10.qld

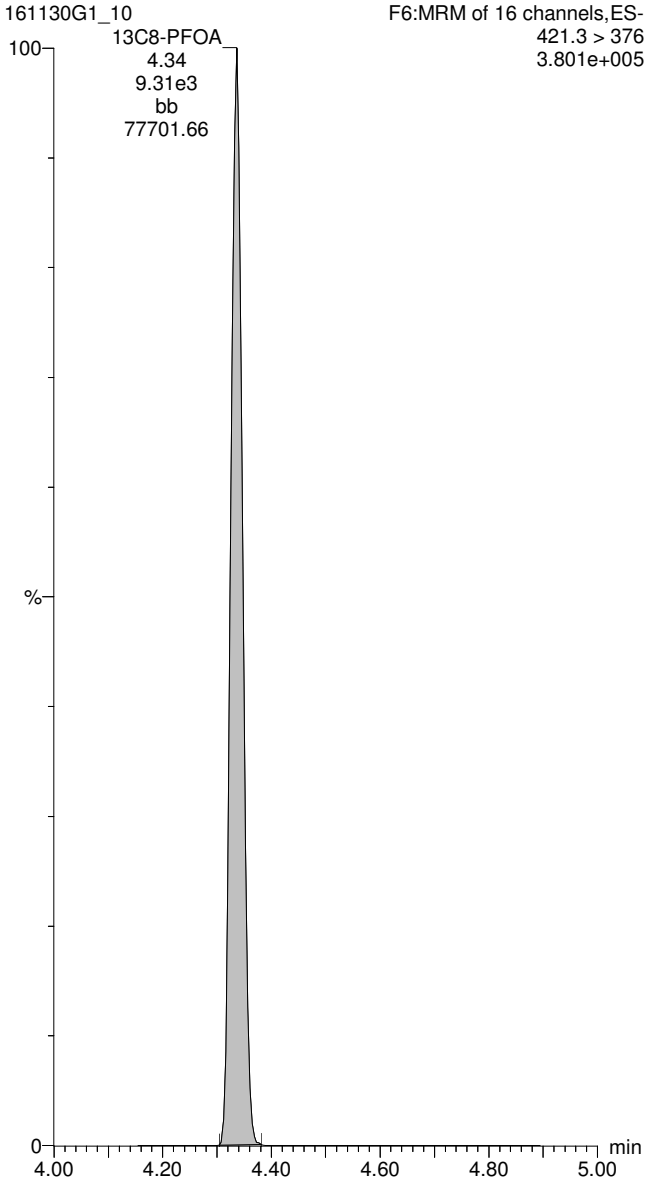
Last Altered: Wednesday, November 30, 2016 11:33:44 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:34:21 Pacific Standard Time

ID: 1601391-13 EB-M14-22_161031 0.12671, Description: EB-M14-22_161031, Name: 161130G1_10, Date: 30-Nov-2016, Time: 10:06:00, Instrument: , Lab: , User:

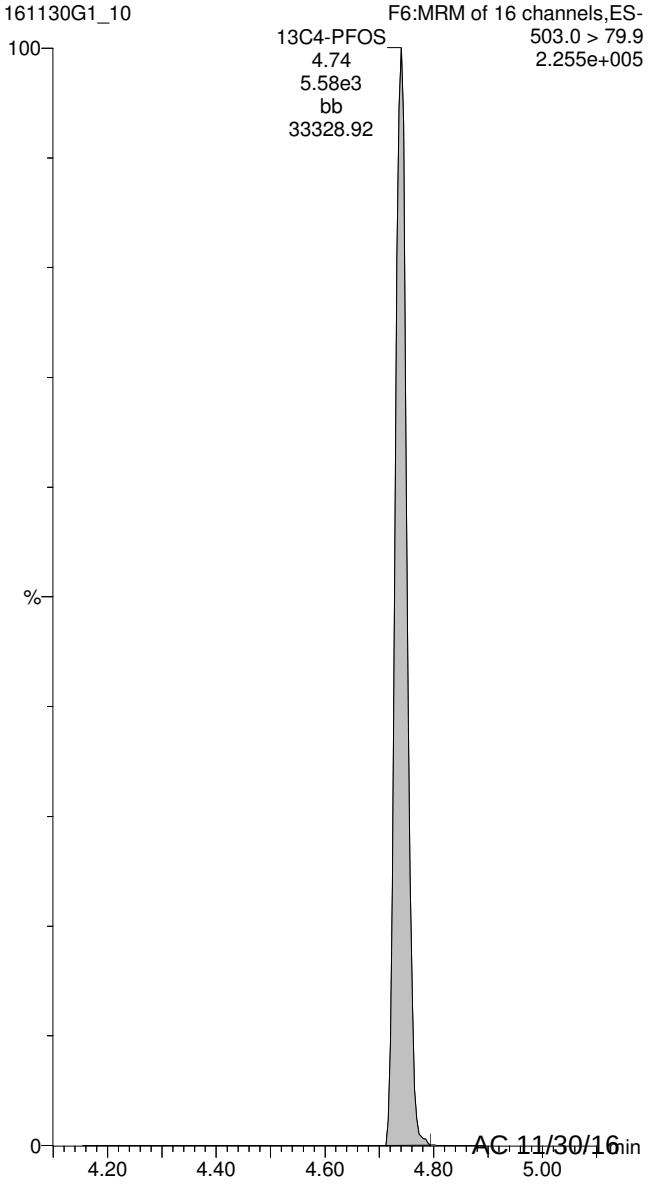
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-11.qld

Last Altered: Wednesday, November 30, 2016 11:37:17 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:38:23 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-14 EB-M14-23_161031 0.13045, Description: EB-M14-23_161031, Name: 161130G1_11, Date: 30-Nov-2016, Time: 10:18:40

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	5.334e0	6.998e3		0.130	3.07	0.664	
2	8	PFOA	413 > 368.7	2.475e2	2.546e4		0.130	4.34	0.254	
3	10	PFOS	499 >79.9	2.839e0	8.233e3		0.130	4.75	1.56	
4	16	13C3-PFBS	302.0 > 98.8	6.998e3	2.085e4	0.302	0.130	3.07	106	111
5	17	13C2-PFHxA	315 > 269.8	4.977e3	2.085e4	0.620	0.130	3.44	36.9	96.3
6	18	13C4-PFHpA	367.2 > 321.8	1.579e4	1.251e4	1.139	0.130	3.94	106	111
7	19	18O2-PFHxS	403 > 102.6	5.473e3	1.251e4	0.449	0.130	4.05	93.3	97.3
8	20	13C2-6:2 FTS	429.1 > 408.9	4.712e3	5.329e3	1.073	0.130	4.29	78.9	82.4
9	21	13C2-PFOA	414.9 > 369.7	2.546e4	9.337e3	2.262	0.130	4.34	116	121
10	22	13C8-PFOS	507.0 > 79.9	8.233e3	6.804e3	0.944	0.130	4.74	123	128
11	28	13C5-PFHxA	318.0 > 272.9	2.085e4	2.085e4	1.000	0.130	3.44	95.8	100
12	29	13C3-PFHxS	401.9 > 79.9	1.251e4	1.251e4	1.000	0.130	4.05	95.8	100
13	30	13C8-PFOA	421.3 > 376	9.337e3	9.337e3	1.000	0.130	4.34	95.8	100
14	31	13C4-PFOS	503.0 > 79.9	6.804e3	6.804e3	1.000	0.130	4.74	95.8	100
15	32	13C9-PFNA	472.2 > 426.9	1.219e4	1.219e4	1.000	0.130	4.68	95.8	100
16	33	13C6-PFDA	519.1 > 473.7	1.185e4	1.185e4	1.000	0.130	4.97	95.8	100
17	34	Total PFBS	299 > 79.7		5.473e3		0.130		0.664	
18	36	Total PFOA	413 > 368.7		2.546e4		0.130		0.254	
19	37	Total PFOS	499 > 79.9		8.233e3		0.130		3.11	

Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

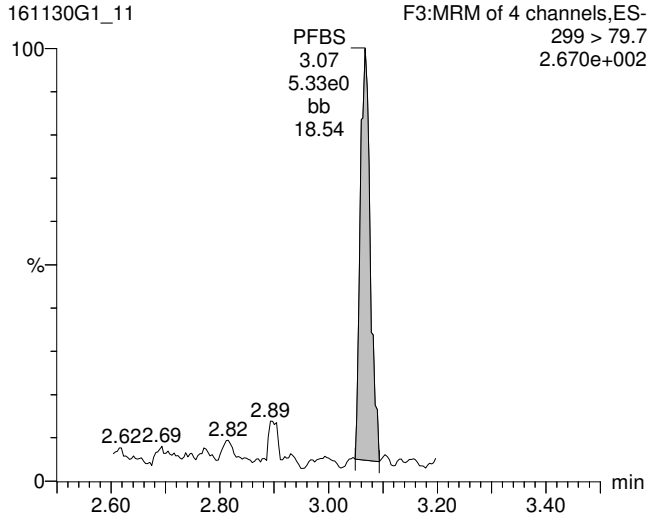
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-11.qld

Last Altered: Wednesday, November 30, 2016 11:37:17 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:38:23 Pacific Standard Time

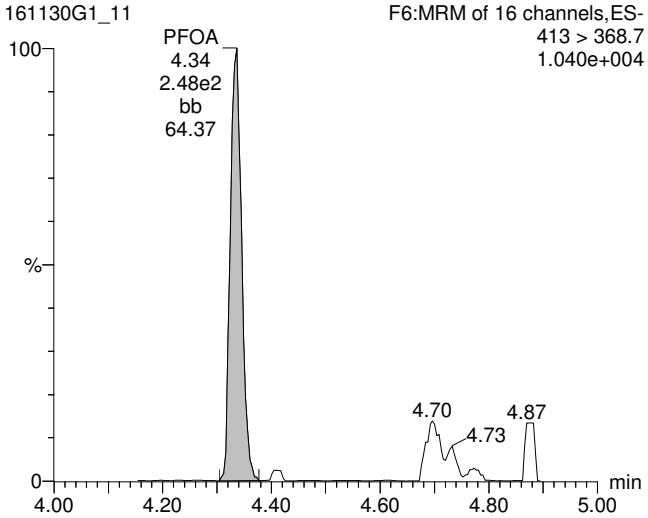
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-14 EB-M14-23_161031 0.13045, Description: EB-M14-23_161031, Name: 161130G1_11, Date: 30-Nov-2016, Time: 10:18:40, Instrument: , Lab: , User:

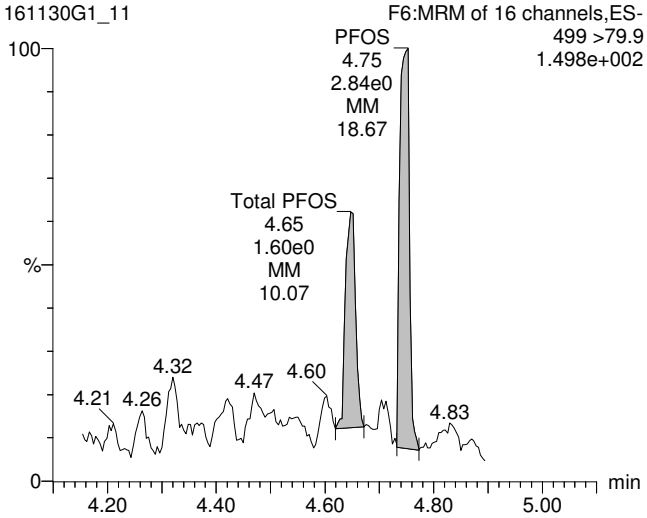
Total PFBS



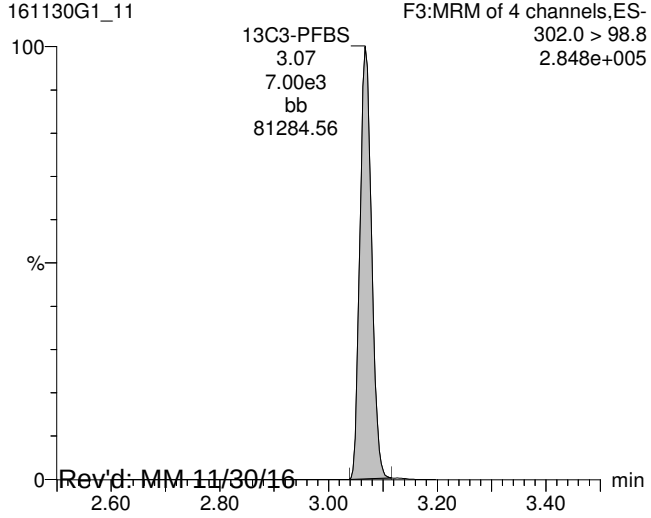
Total PFOA



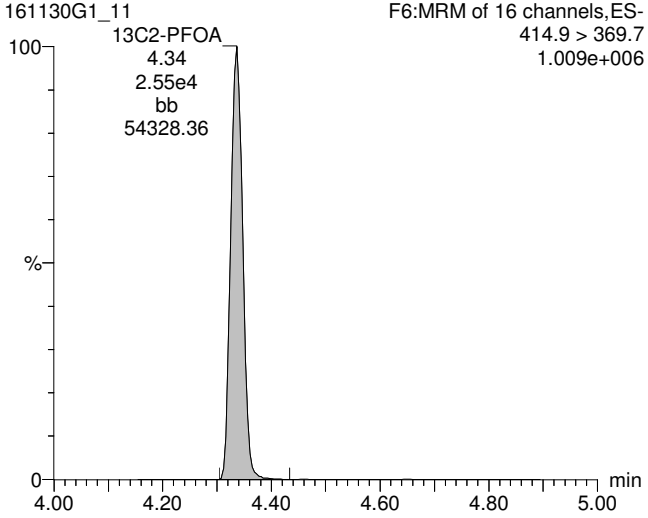
Total PFOS



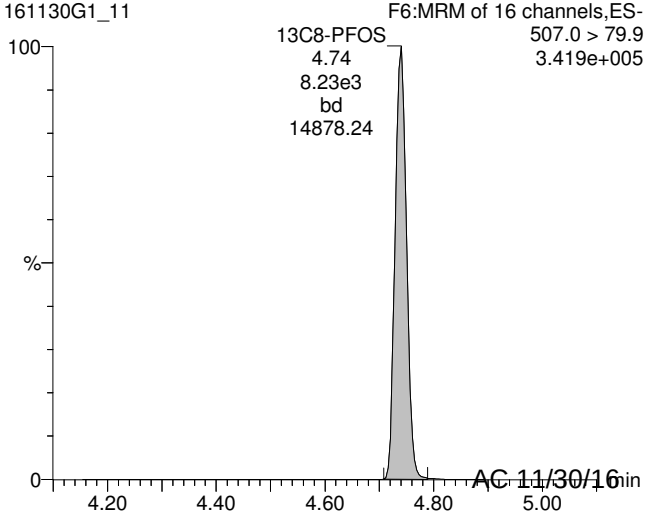
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

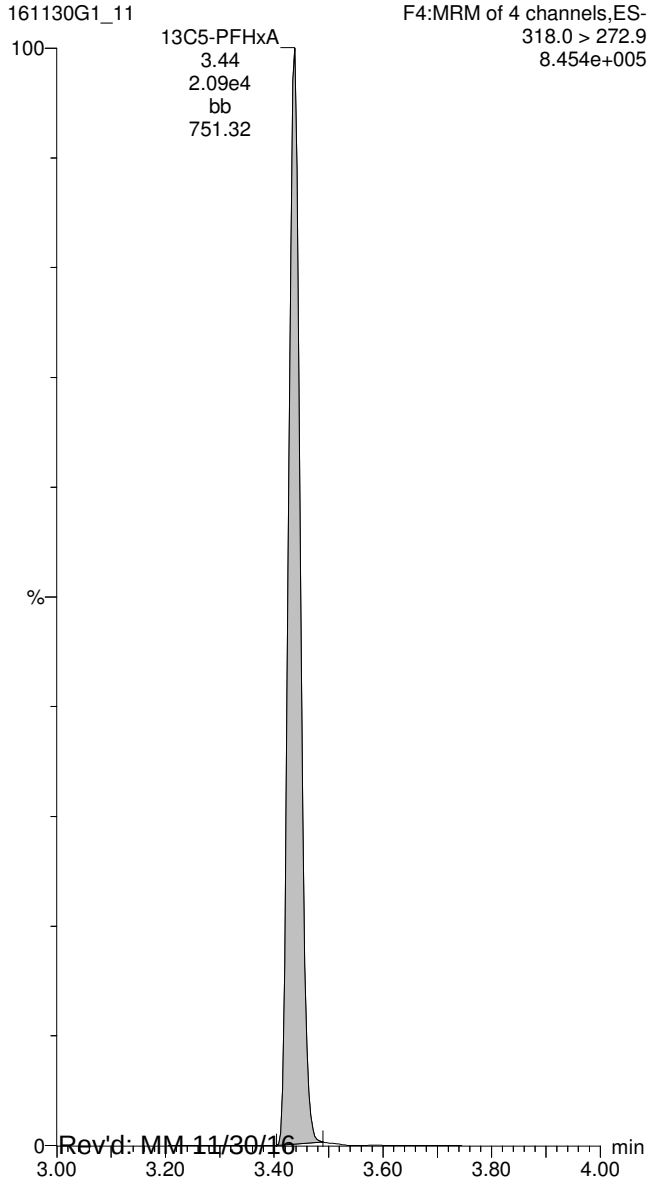
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-11.qld

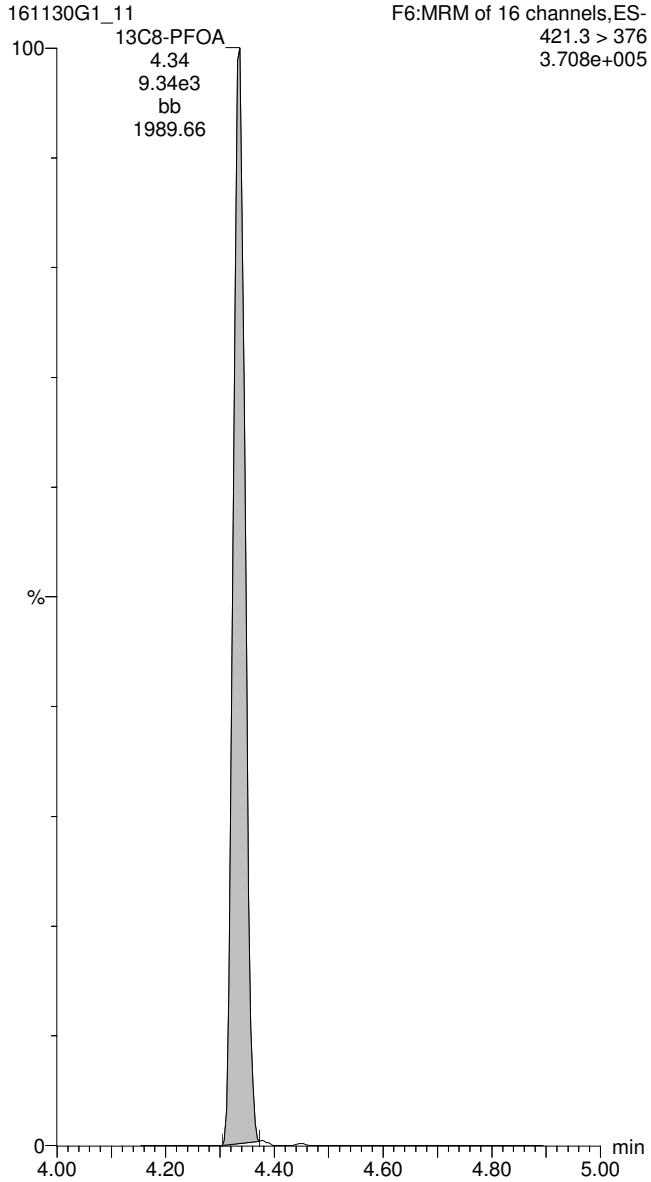
Last Altered: Wednesday, November 30, 2016 11:37:17 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:38:23 Pacific Standard Time

ID: 1601391-14 EB-M14-23_161031 0.13045, Description: EB-M14-23_161031, Name: 161130G1_11, Date: 30-Nov-2016, Time: 10:18:40, Instrument: , Lab: , User:

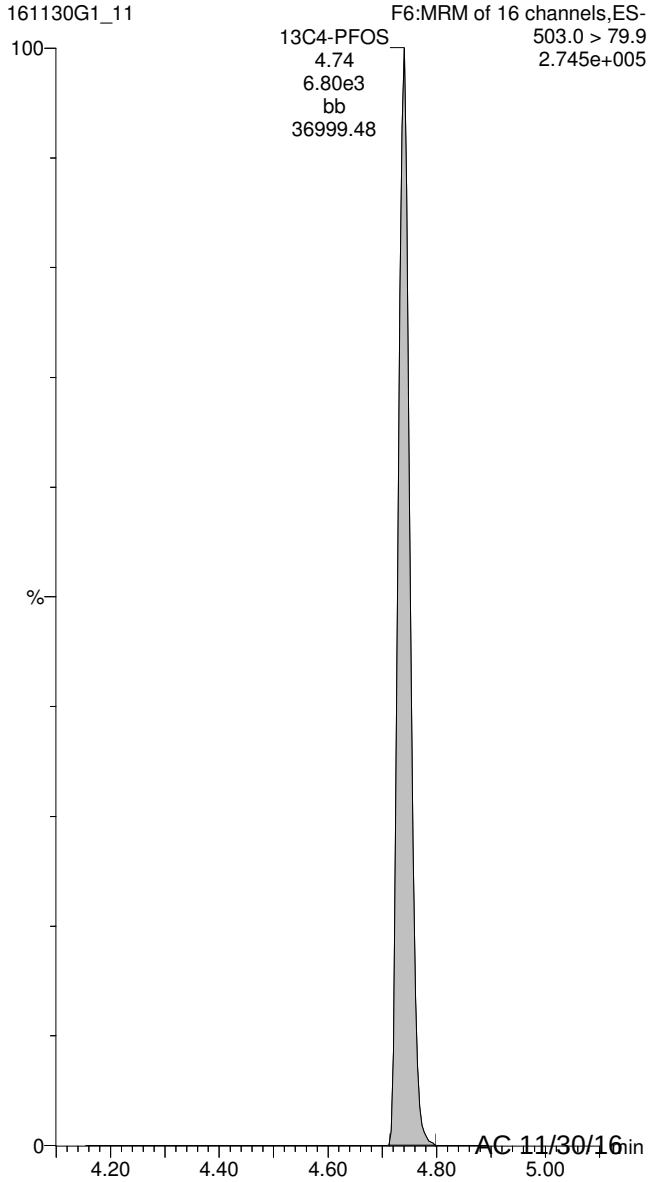
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-12.qld

Last Altered: Wednesday, November 30, 2016 11:41:19 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:41:54 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-15 EB-M14-24_161031 0.12902, Description: EB-M14-24_161031, Name: 161130G1_12, Date: 30-Nov-2016, Time: 10:31:17

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		7.043e3		0.129			
2	8	PFOA	413 > 368.7	3.129e2	2.575e4		0.129	4.33	0.518	
3	10	PFOS	499 >79.9	1.254e1	8.922e3		0.129	4.65	1.70	
4	16	13C3-PFBS	302.0 > 98.8	7.043e3	2.099e4	0.302	0.129	3.07	108	111
5	17	13C2-PFHxA	315 > 269.8	5.272e3	2.099e4	0.620	0.129	3.44	39.3	101
6	18	13C4-PFHpA	367.2 > 321.8	1.605e4	1.441e4	1.139	0.129	3.94	94.8	97.8
7	19	18O2-PFHxS	403 > 102.6	6.362e3	1.441e4	0.449	0.129	4.05	95.2	98.3
8	20	13C2-6:2 FTS	429.1 > 408.9	4.438e3	5.505e3	1.073	0.129	4.29	72.8	75.1
9	21	13C2-PFOA	414.9 > 369.7	2.575e4	1.013e4	2.262	0.129	4.33	109	112
10	22	13C8-PFOS	507.0 > 79.9	8.922e3	7.390e3	0.944	0.129	4.74	124	128
11	28	13C5-PFHxA	318.0 > 272.9	2.099e4	2.099e4	1.000	0.129	3.43	96.9	100
12	29	13C3-PFHxS	401.9 > 79.9	1.441e4	1.441e4	1.000	0.129	4.05	96.9	100
13	30	13C8-PFOA	421.3 > 376	1.013e4	1.013e4	1.000	0.129	4.33	96.9	100
14	31	13C4-PFOS	503.0 > 79.9	7.390e3	7.390e3	1.000	0.129	4.74	96.9	100
15	32	13C9-PFNA	472.2 > 426.9	1.324e4	1.324e4	1.000	0.129	4.68	96.9	100
16	33	13C6-PFDA	519.1 > 473.7	1.089e4	1.089e4	1.000	0.129	4.97	96.9	100
17	34	Total PFBS	299 > 79.7		6.362e3		0.129			
18	36	Total PFOA	413 > 368.7		2.575e4		0.129		0.518	
19	37	Total PFOS	499 > 79.9		8.922e3		0.129		1.70	

Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

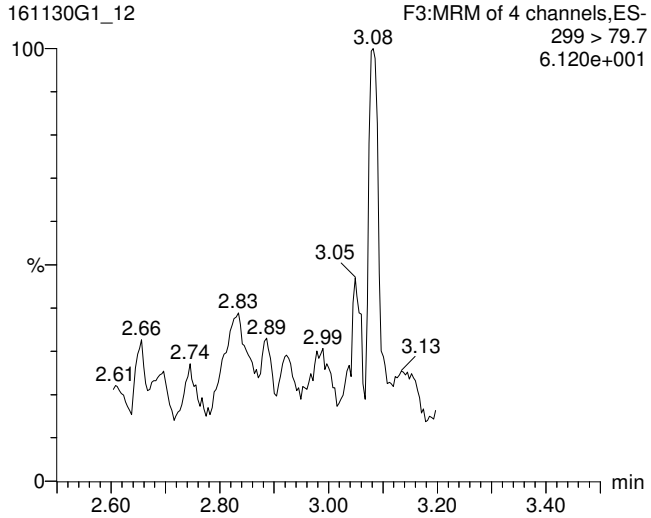
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-12.qld

Last Altered: Wednesday, November 30, 2016 11:41:19 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:41:54 Pacific Standard Time

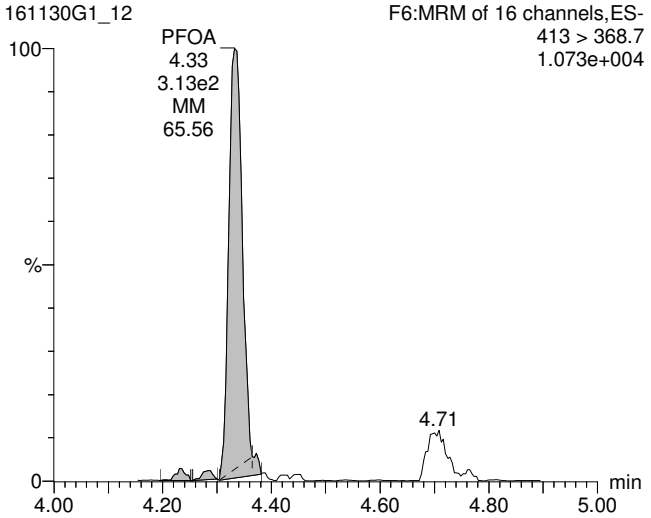
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-15 EB-M14-24_161031 0.12902, Description: EB-M14-24_161031, Name: 161130G1_12, Date: 30-Nov-2016, Time: 10:31:17, Instrument: , Lab: , User:

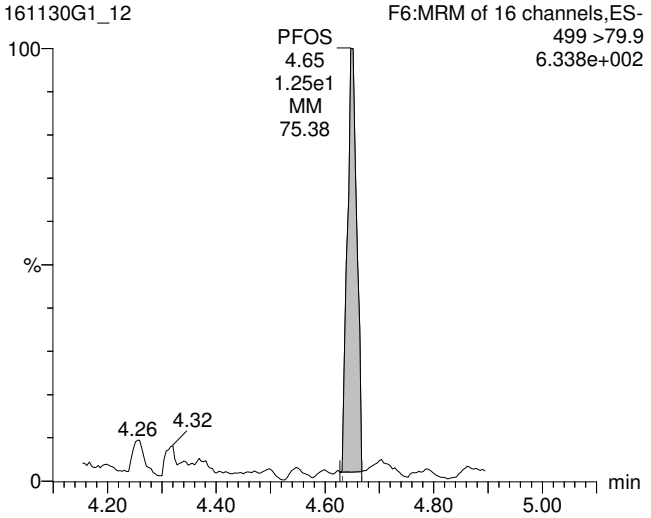
Total PFBS



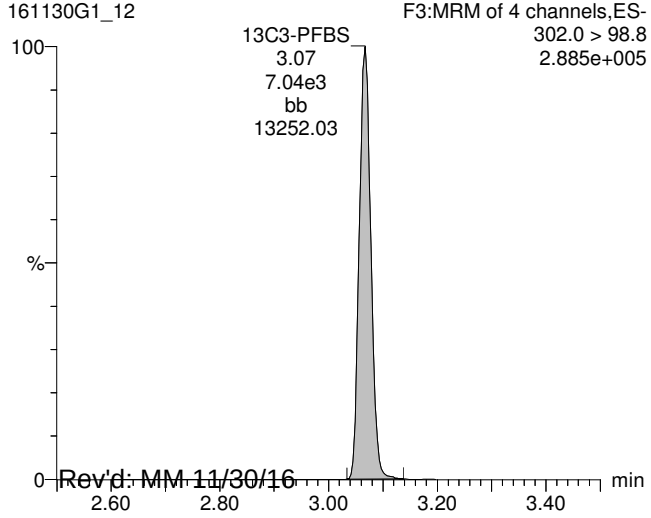
Total PFOA



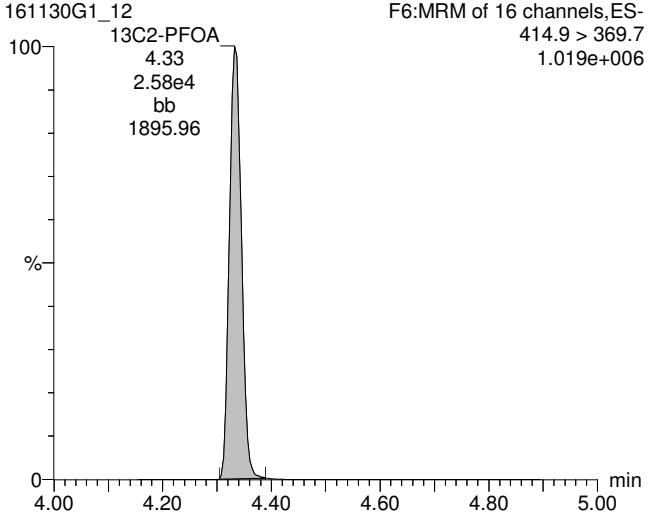
Total PFOS



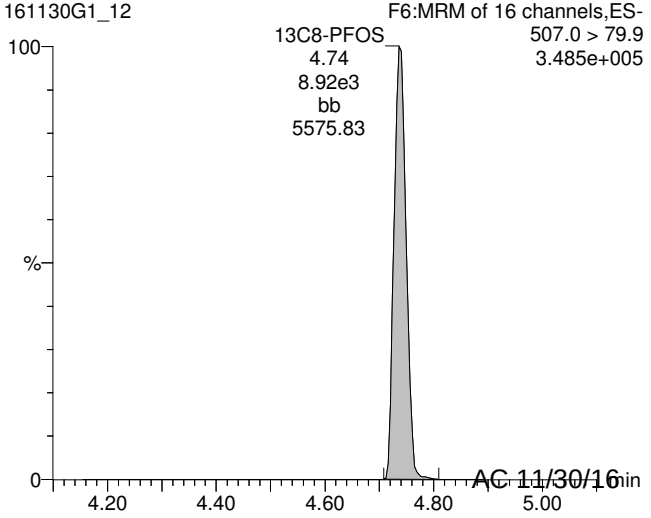
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

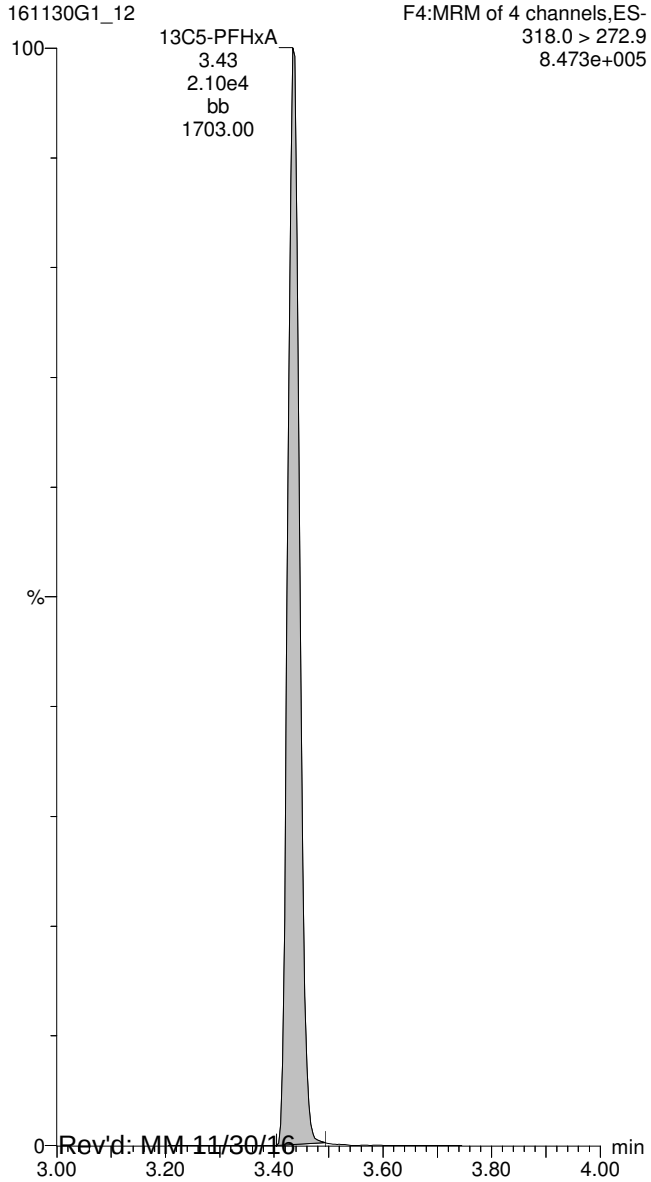
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-12.qld

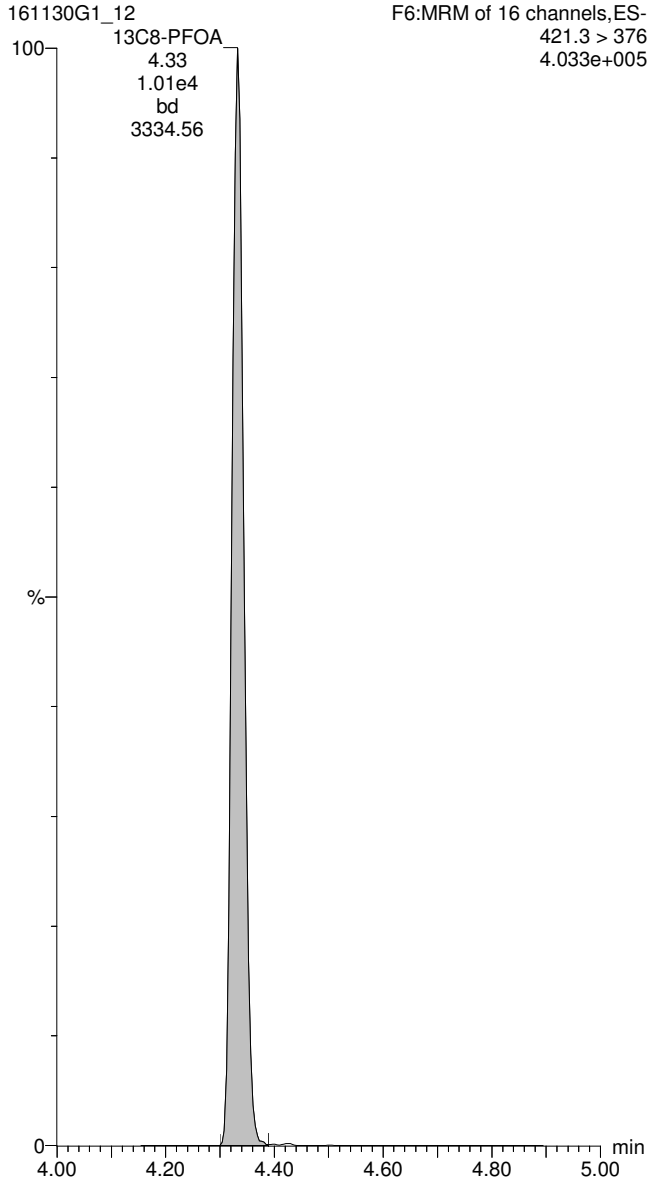
Last Altered: Wednesday, November 30, 2016 11:41:19 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:41:54 Pacific Standard Time

ID: 1601391-15 EB-M14-24_161031 0.12902, Description: EB-M14-24_161031, Name: 161130G1_12, Date: 30-Nov-2016, Time: 10:31:17, Instrument: , Lab: , User:

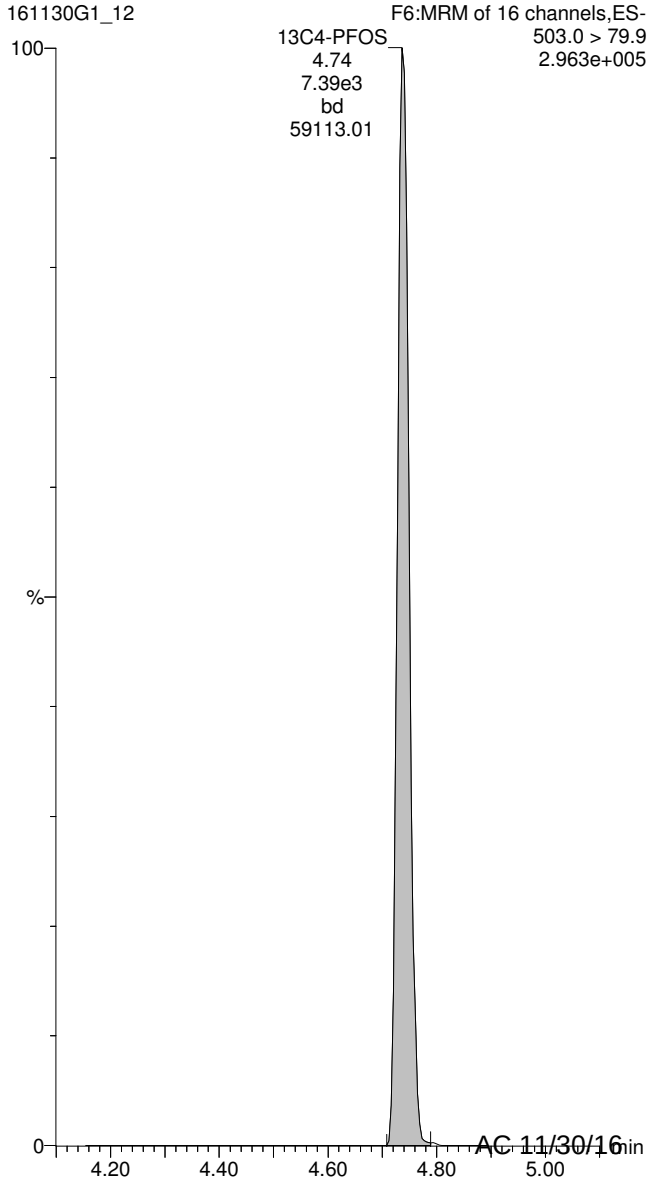
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-13.qld

Last Altered: Wednesday, November 30, 2016 11:43:17 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:43:38 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-16 FB-M14-22_161031 0.12848, Description: FB-M14-22_161031, Name: 161130G1_13, Date: 30-Nov-2016, Time: 10:43:55

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	1.804e0	5.834e3		0.128	3.07	0.649	
2	8	PFOA	413 > 368.7	2.622e2	2.378e4		0.128	4.34	0.399	
3	10	PFOS	499 >79.9		7.465e3		0.128			
4	16	13C3-PFBS	302.0 > 98.8	5.834e3	1.747e4	0.302	0.128	3.07	108	111
5	17	13C2-PFHxA	315 > 269.8	4.355e3	1.747e4	0.620	0.128	3.44	39.1	101
6	18	13C4-PFHpA	367.2 > 321.8	1.449e4	1.077e4	1.139	0.128	3.94	115	118
7	19	18O2-PFHxS	403 > 102.6	5.365e3	1.077e4	0.449	0.128	4.05	108	111
8	20	13C2-6:2 FTS	429.1 > 408.9	4.260e3	4.473e3	1.073	0.128	4.29	86.3	88.7
9	21	13C2-PFOA	414.9 > 369.7	2.378e4	8.890e3	2.262	0.128	4.34	115	118
10	22	13C8-PFOS	507.0 > 79.9	7.465e3	7.033e3	0.944	0.128	4.74	109	112
11	28	13C5-PFHxA	318.0 > 272.9	1.747e4	1.747e4	1.000	0.128	3.44	97.3	100
12	29	13C3-PFHxS	401.9 > 79.9	1.077e4	1.077e4	1.000	0.128	4.05	97.3	100
13	30	13C8-PFOA	421.3 > 376	8.890e3	8.890e3	1.000	0.128	4.33	97.3	100
14	31	13C4-PFOS	503.0 > 79.9	7.033e3	7.033e3	1.000	0.128	4.74	97.3	100
15	32	13C9-PFNA	472.2 > 426.9	1.143e4	1.143e4	1.000	0.128	4.68	97.3	100
16	33	13C6-PFDA	519.1 > 473.7	1.026e4	1.026e4	1.000	0.128	4.97	97.3	100
17	34	Total PFBS	299 > 79.7		5.365e3		0.128		0.649	
18	36	Total PFOA	413 > 368.7		2.378e4		0.128		0.399	
19	37	Total PFOS	499 > 79.9		7.465e3		0.128			

Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

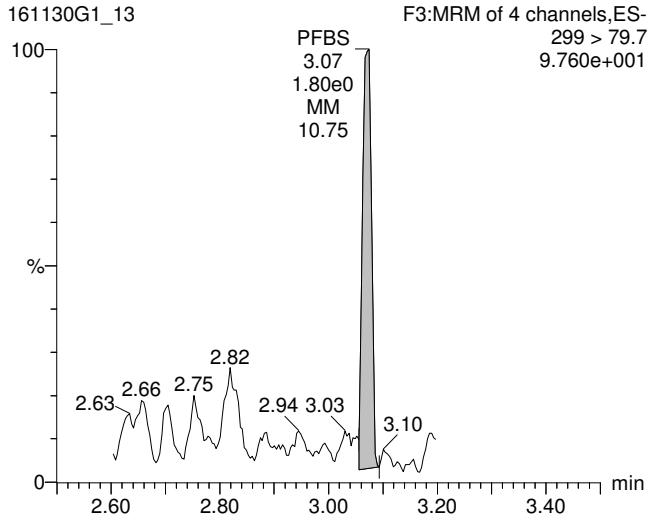
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-13.qld

Last Altered: Wednesday, November 30, 2016 11:43:17 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:43:38 Pacific Standard Time

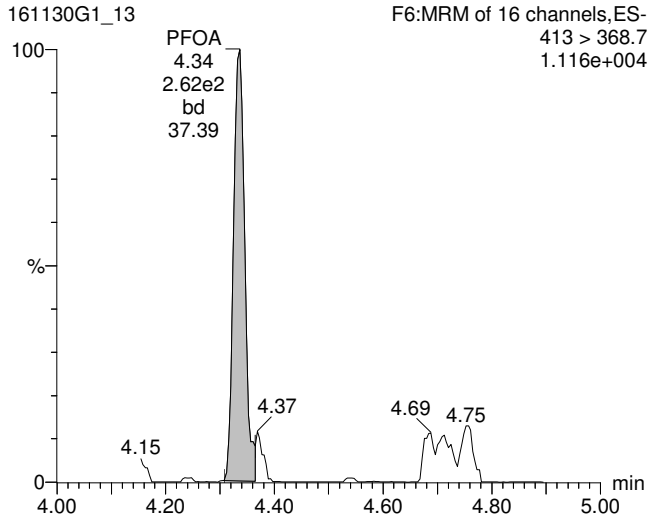
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-16 FB-M14-22_161031 0.12848, Description: FB-M14-22_161031, Name: 161130G1_13, Date: 30-Nov-2016, Time: 10:43:55, Instrument: , Lab: , User:

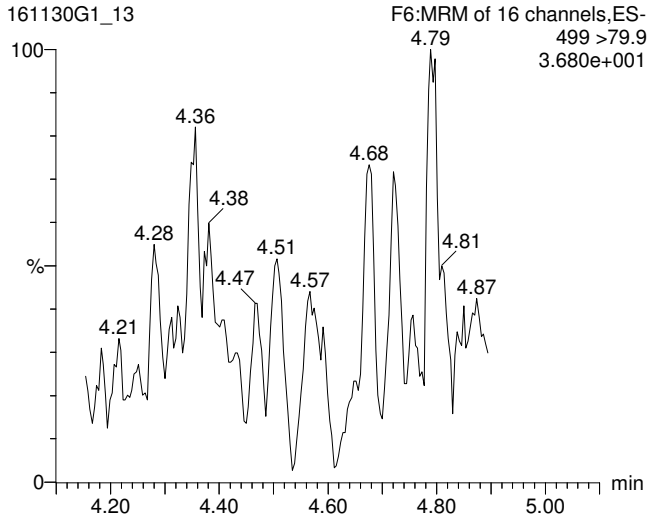
Total PFBS



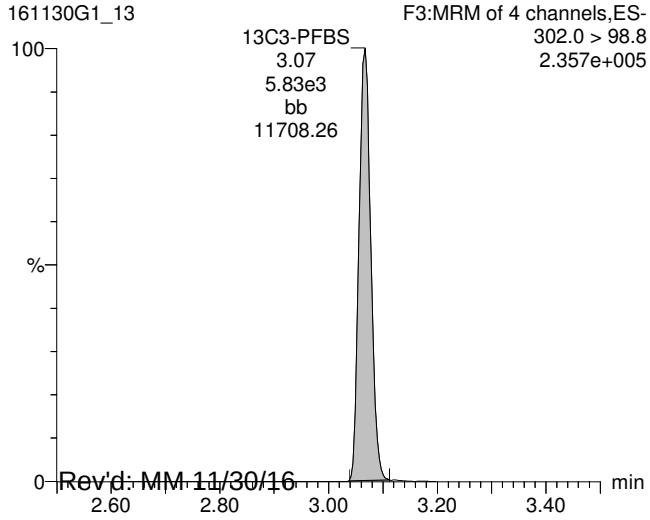
Total PFOA



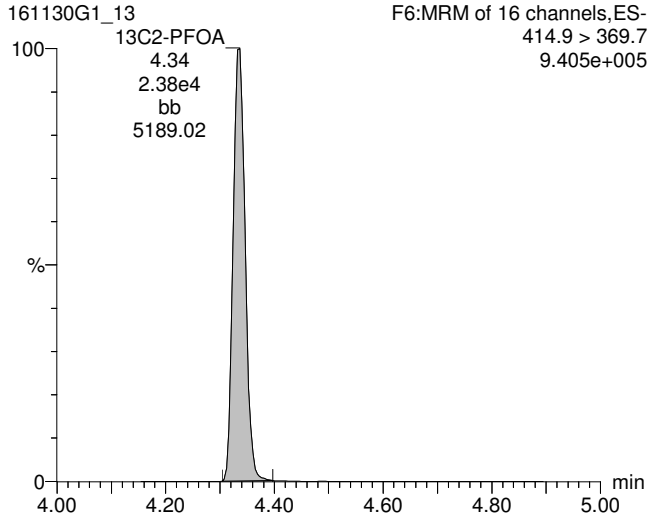
Total PFOS



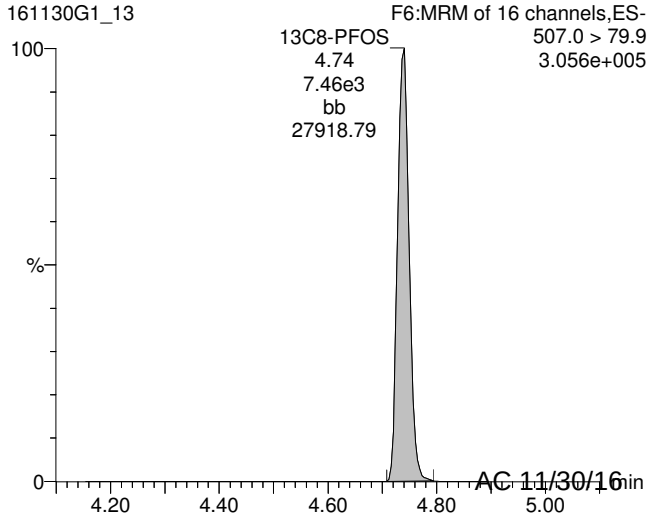
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

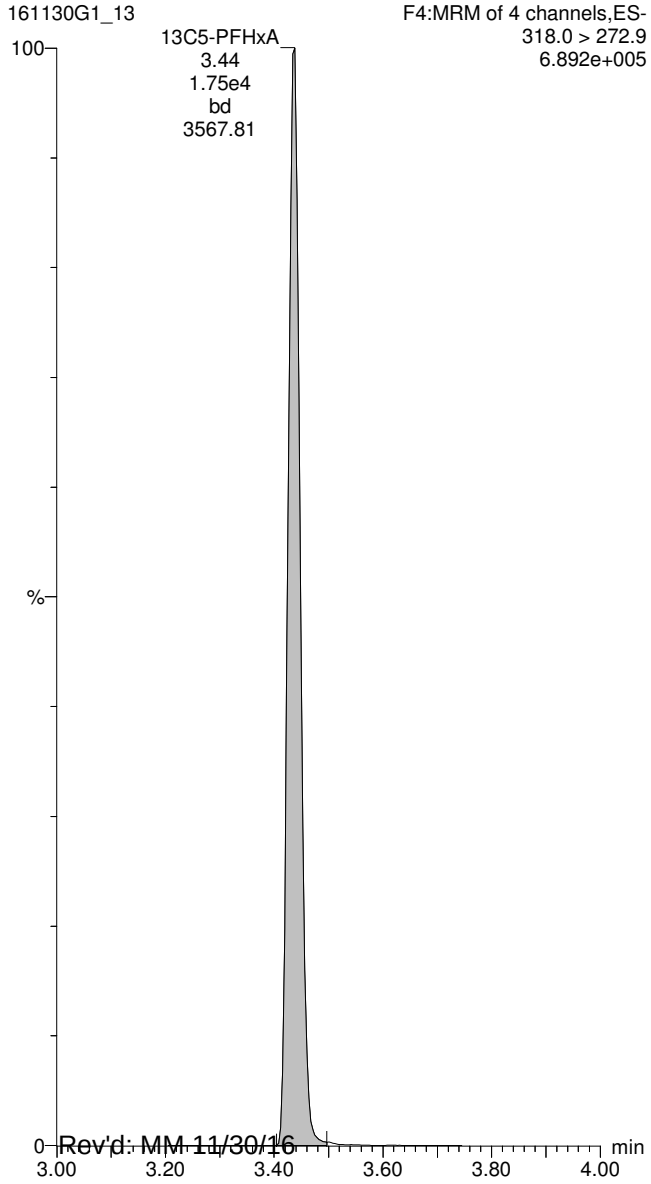
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-13.qld

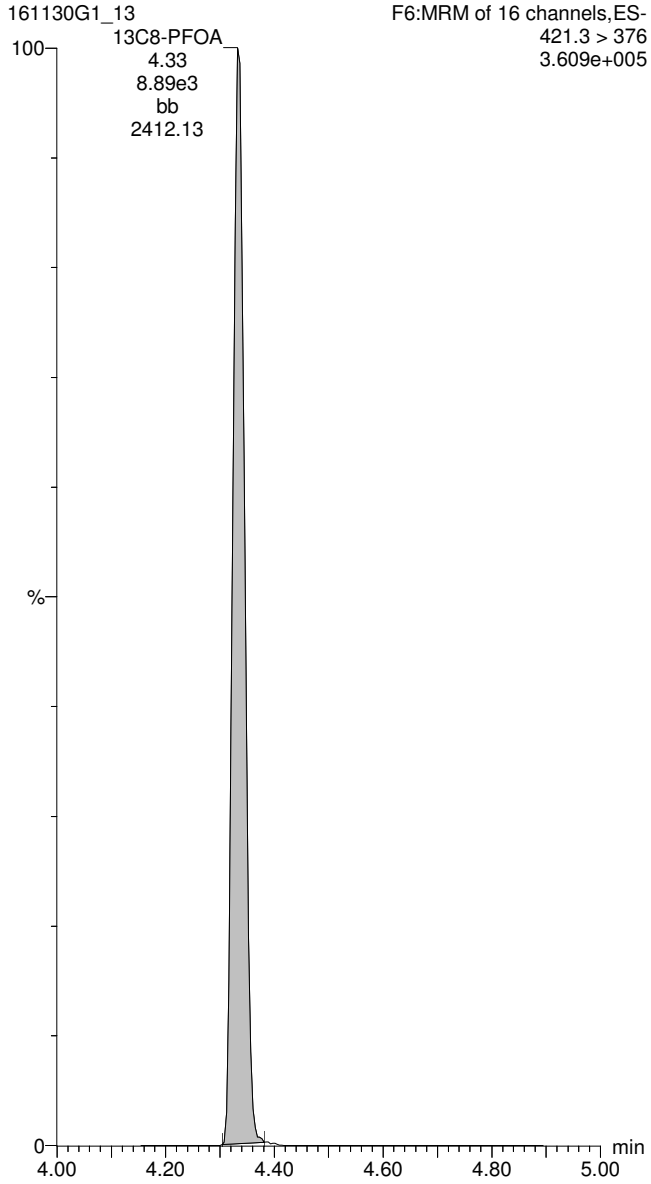
Last Altered: Wednesday, November 30, 2016 11:43:17 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:43:38 Pacific Standard Time

ID: 1601391-16 FB-M14-22_161031 0.12848, Description: FB-M14-22_161031, Name: 161130G1_13, Date: 30-Nov-2016, Time: 10:43:55, Instrument: , Lab: , User:

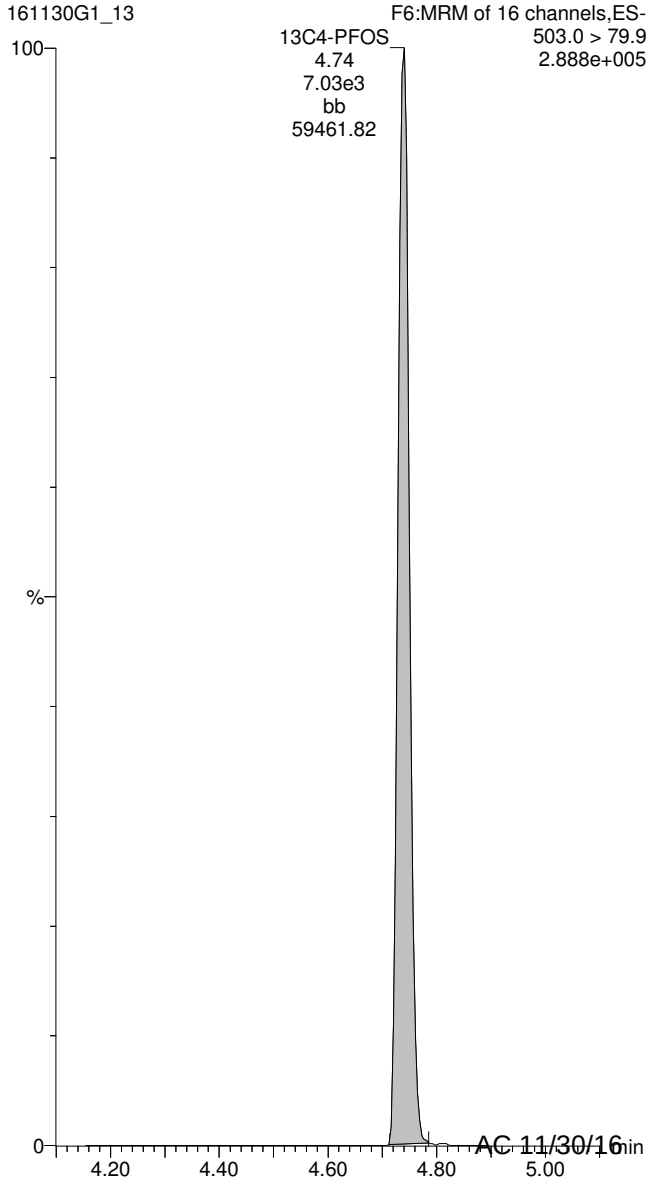
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-14.qld

Last Altered: Wednesday, November 30, 2016 11:45:01 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:45:23 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-17 FB-M14-23_161031 0.12897, Description: FB-M14-23_161031, Name: 161130G1_14, Date: 30-Nov-2016, Time: 10:56:33

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.785e3		0.129			
2	8	PFOA	413 > 368.7	2.500e2	2.120e4		0.129	4.34	0.480	
3	10	PFOS	499 >79.9	4.398e0	7.645e3		0.129	4.66	1.61	
4	16	13C3-PFBS	302.0 > 98.8	5.785e3	1.826e4	0.302	0.129	3.07	102	105
5	17	13C2-PFHxA	315 > 269.8	4.011e3	1.826e4	0.620	0.129	3.44	34.4	88.6
6	18	13C4-PFHpA	367.2 > 321.8	1.349e4	1.094e4	1.139	0.129	3.94	105	108
7	19	18O2-PFHxS	403 > 102.6	5.195e3	1.094e4	0.449	0.129	4.05	102	106
8	20	13C2-6:2 FTS	429.1 > 408.9	5.026e3	5.300e3	1.073	0.129	4.29	85.6	88.4
9	21	13C2-PFOA	414.9 > 369.7	2.120e4	8.573e3	2.262	0.129	4.34	106	109
10	22	13C8-PFOS	507.0 > 79.9	7.645e3	7.437e3	0.944	0.129	4.74	106	109
11	28	13C5-PFHxA	318.0 > 272.9	1.826e4	1.826e4	1.000	0.129	3.44	96.9	100
12	29	13C3-PFHxS	401.9 > 79.9	1.094e4	1.094e4	1.000	0.129	4.05	96.9	100
13	30	13C8-PFOA	421.3 > 376	8.573e3	8.573e3	1.000	0.129	4.34	96.9	100
14	31	13C4-PFOS	503.0 > 79.9	7.437e3	7.437e3	1.000	0.129	4.74	96.9	100
15	32	13C9-PFNA	472.2 > 426.9	1.111e4	1.111e4	1.000	0.129	4.68	96.9	100
16	33	13C6-PFDA	519.1 > 473.7	1.007e4	1.007e4	1.000	0.129	4.98	96.9	100
17	34	Total PFBS	299 > 79.7		5.195e3		0.129			
18	36	Total PFOA	413 > 368.7		2.120e4		0.129		0.480	
19	37	Total PFOS	499 > 79.9		7.645e3		0.129		1.61	

Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

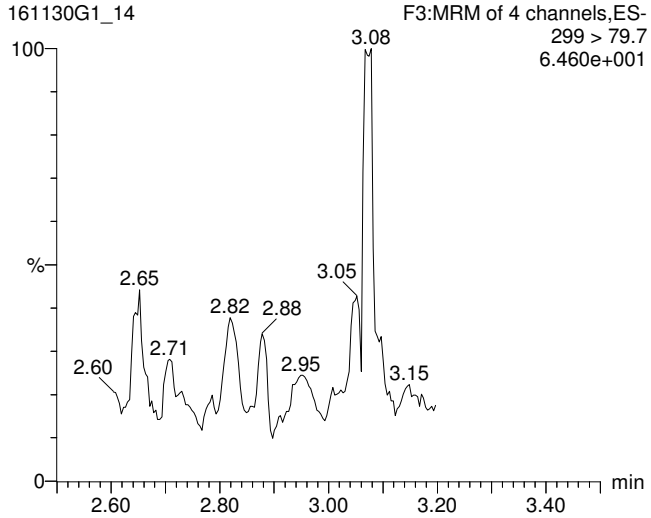
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-14.qld

Last Altered: Wednesday, November 30, 2016 11:45:01 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:45:23 Pacific Standard Time

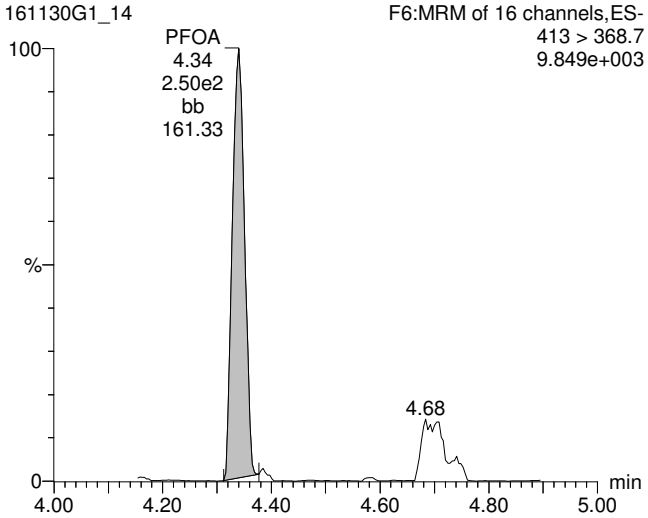
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-17 FB-M14-23_161031 0.12897, Description: FB-M14-23_161031, Name: 161130G1_14, Date: 30-Nov-2016, Time: 10:56:33, Instrument: , Lab: , User:

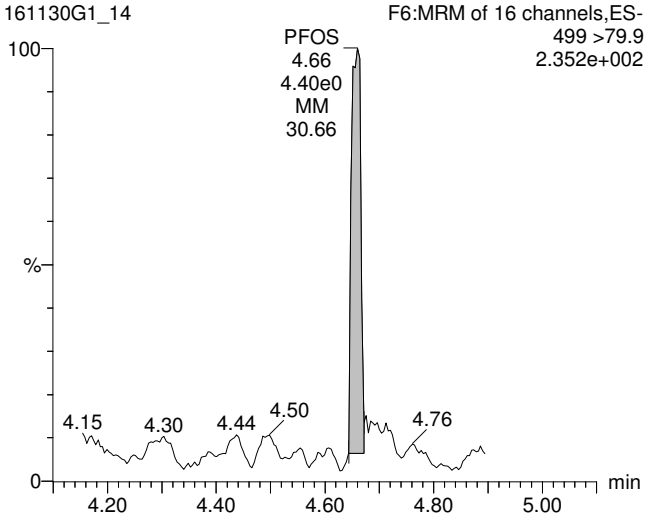
Total PFBS



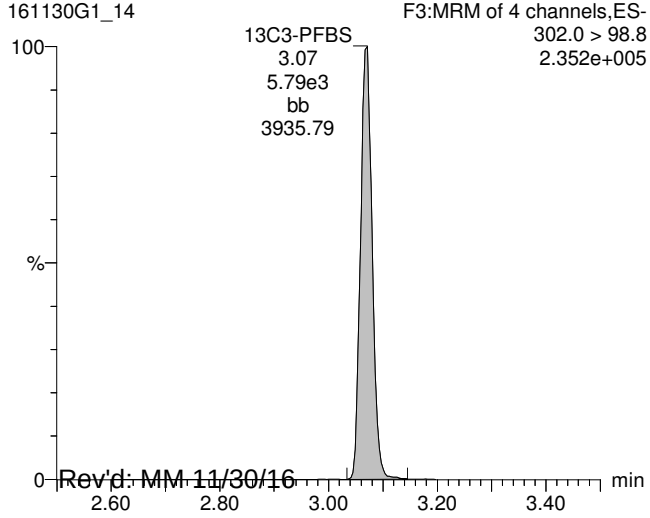
Total PFOA



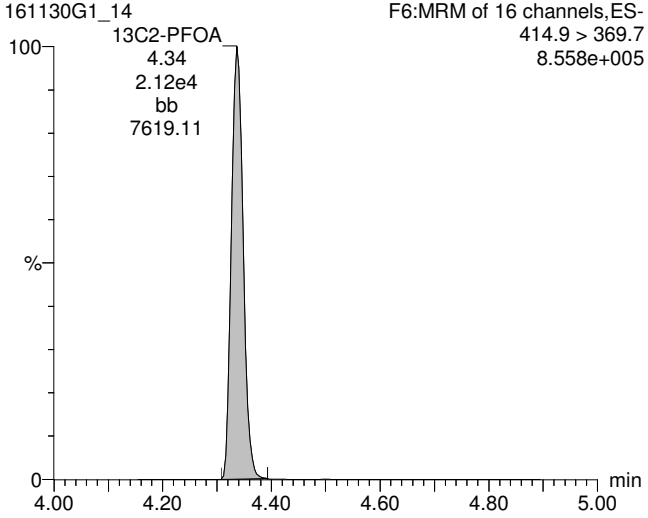
Total PFOS



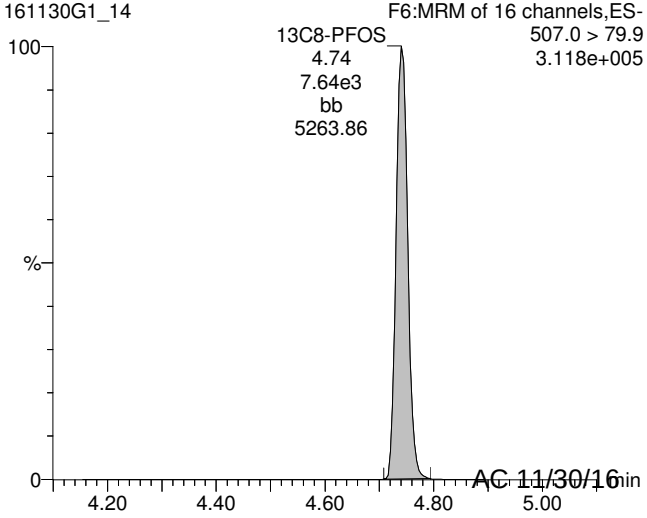
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

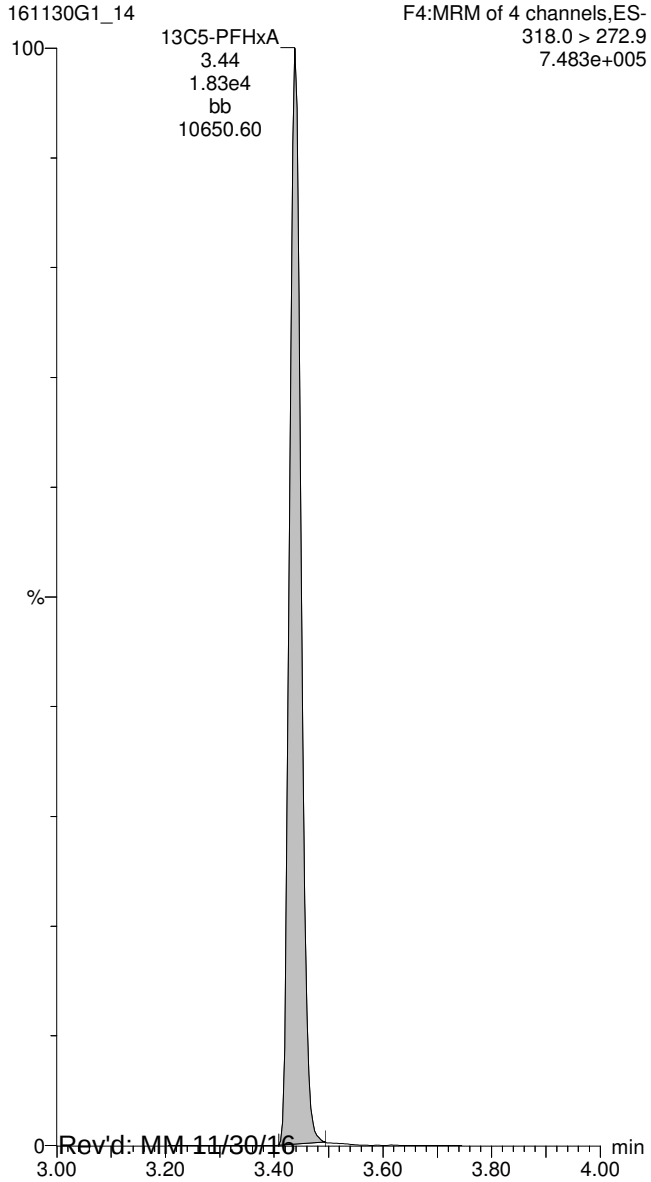
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-14.qld

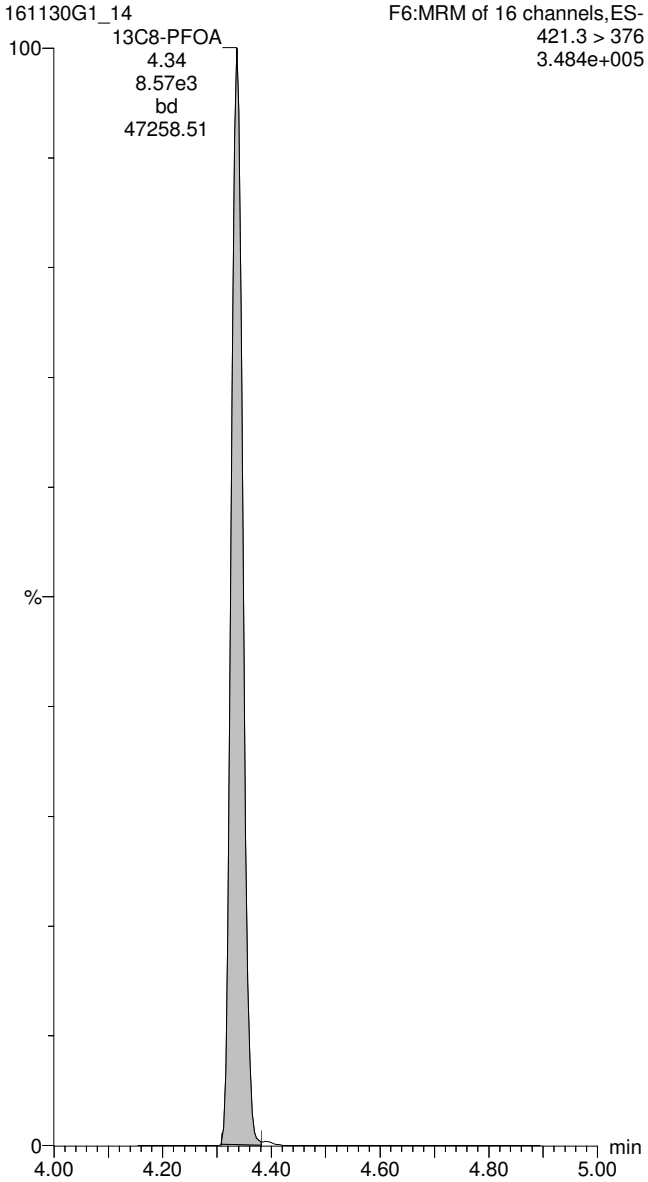
Last Altered: Wednesday, November 30, 2016 11:45:01 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:45:23 Pacific Standard Time

ID: 1601391-17 FB-M14-23_161031 0.12897, Description: FB-M14-23_161031, Name: 161130G1_14, Date: 30-Nov-2016, Time: 10:56:33, Instrument: , Lab: , User:

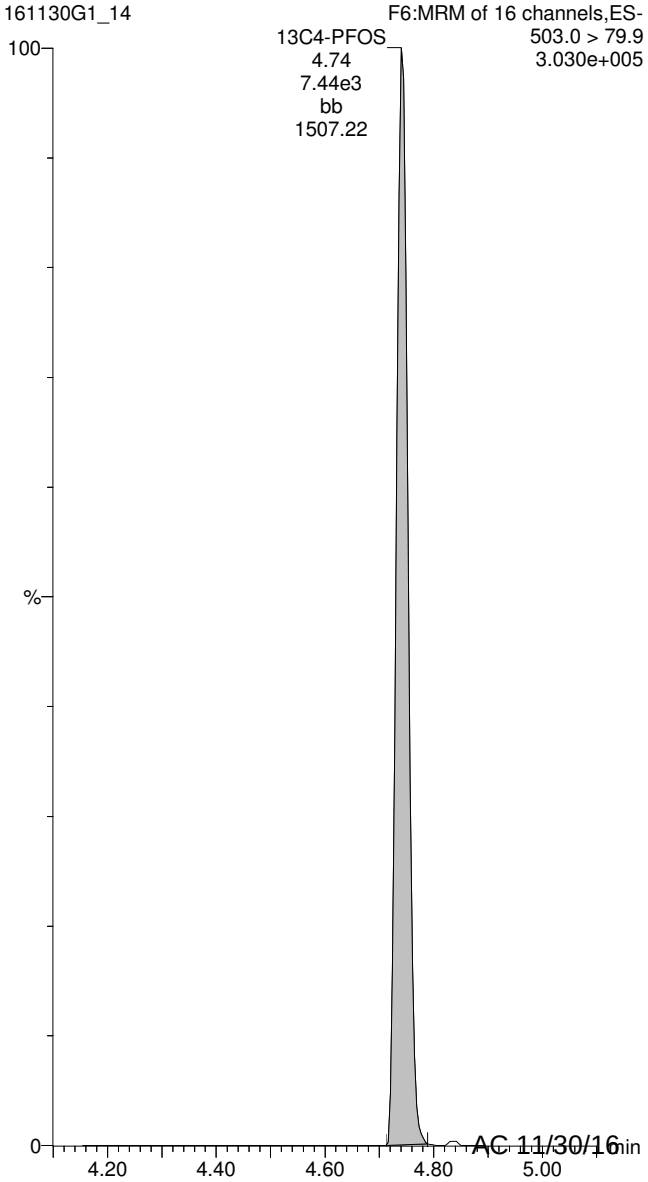
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/30/16 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-15.qld

Last Altered: Wednesday, November 30, 2016 11:47:09 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:47:53 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-18 FB-M14-24_161031 0.12624, Description: FB-M14-24_161031, Name: 161130G1_15, Date: 30-Nov-2016, Time: 11:09:12

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.318e3		0.126			
2	8	PFOA	413 > 368.7	1.813e2	2.120e4		0.126	4.34	0.134	
3	10	PFOS	499 >79.9	1.907e0	7.174e3		0.126	4.74	1.61	
4	16	13C3-PFBS	302.0 > 98.8	5.318e3	1.626e4	0.302	0.126	3.07	107	108
5	17	13C2-PFHxA	315 > 269.8	3.941e3	1.626e4	0.620	0.126	3.44	38.7	97.8
6	18	13C4-PFHpA	367.2 > 321.8	1.314e4	1.021e4	1.139	0.126	3.94	112	113
7	19	18O2-PFHxS	403 > 102.6	4.817e3	1.021e4	0.449	0.126	4.05	104	105
8	20	13C2-6:2 FTS	429.1 > 408.9	4.454e3	3.922e3	1.073	0.126	4.29	105	106
9	21	13C2-PFOA	414.9 > 369.7	2.120e4	7.455e3	2.262	0.126	4.34	124	126
10	22	13C8-PFOS	507.0 > 79.9	7.174e3	7.008e3	0.944	0.126	4.74	107	108
11	28	13C5-PFHxA	318.0 > 272.9	1.626e4	1.626e4	1.000	0.126	3.44	99.0	100
12	29	13C3-PFHxS	401.9 > 79.9	1.021e4	1.021e4	1.000	0.126	4.06	99.0	100
13	30	13C8-PFOA	421.3 > 376	7.455e3	7.455e3	1.000	0.126	4.34	99.0	100
14	31	13C4-PFOS	503.0 > 79.9	7.008e3	7.008e3	1.000	0.126	4.74	99.0	100
15	32	13C9-PFNA	472.2 > 426.9	9.486e3	9.486e3	1.000	0.126	4.68	99.0	100
16	33	13C6-PFDA	519.1 > 473.7	9.465e3	9.465e3	1.000	0.126	4.98	99.0	100
17	34	Total PFBS	299 > 79.7		4.817e3		0.126			
18	36	Total PFOA	413 > 368.7		2.120e4		0.126		0.134	
19	37	Total PFOS	499 > 79.9		7.174e3		0.126		1.61	

Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

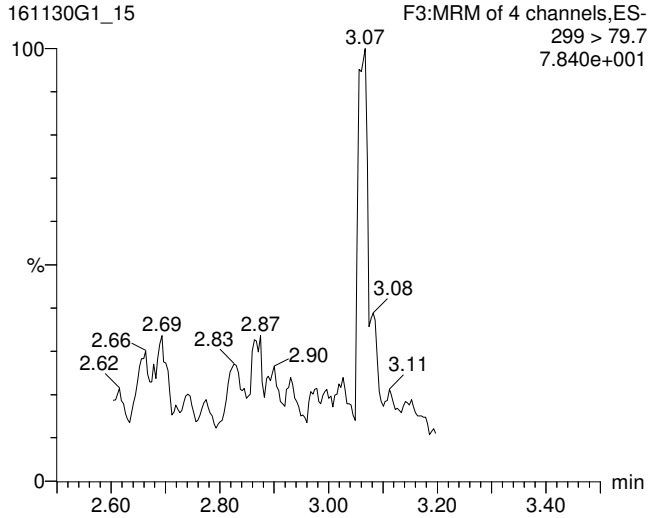
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-15.qld

Last Altered: Wednesday, November 30, 2016 11:47:09 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:47:53 Pacific Standard Time

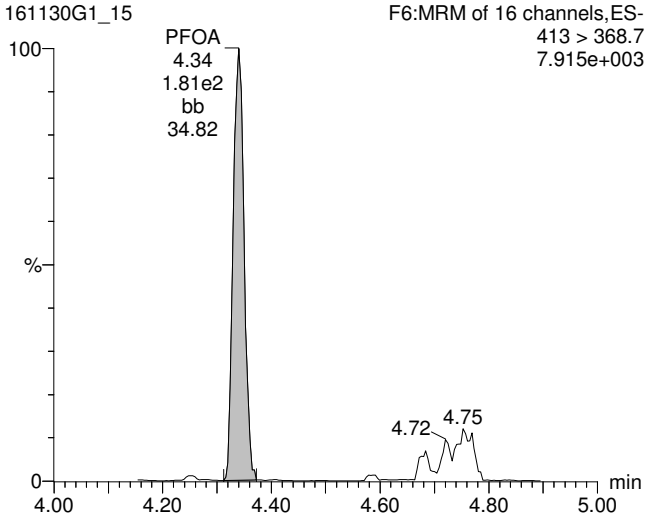
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601391-18 FB-M14-24_161031 0.12624, Description: FB-M14-24_161031, Name: 161130G1_15, Date: 30-Nov-2016, Time: 11:09:12, Instrument: , Lab: , User:

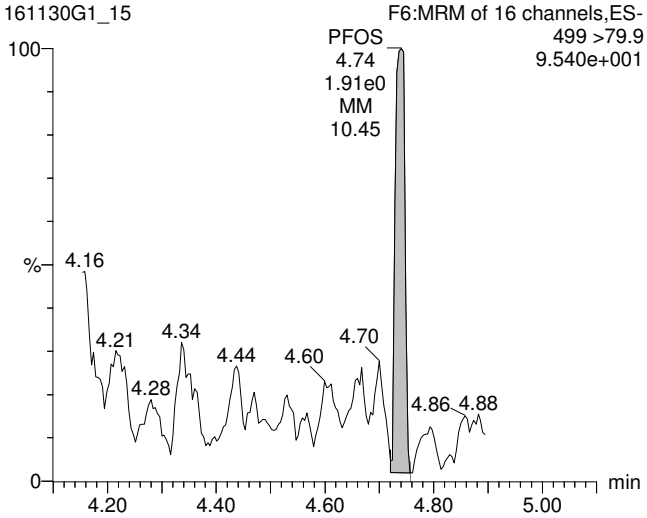
Total PFBS



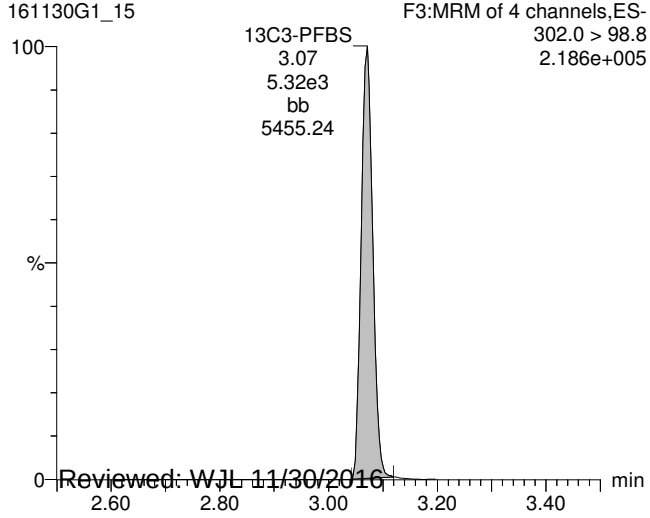
Total PFOA



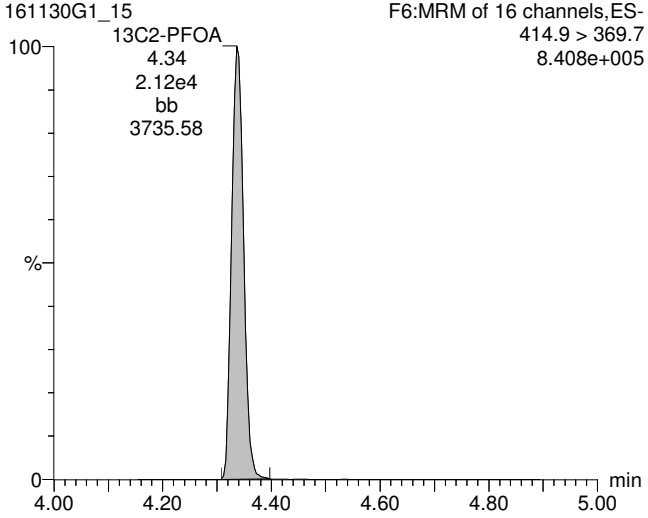
Total PFOS



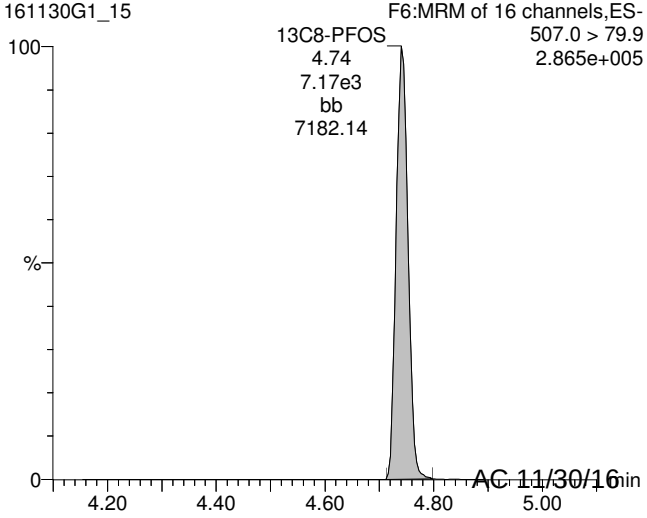
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

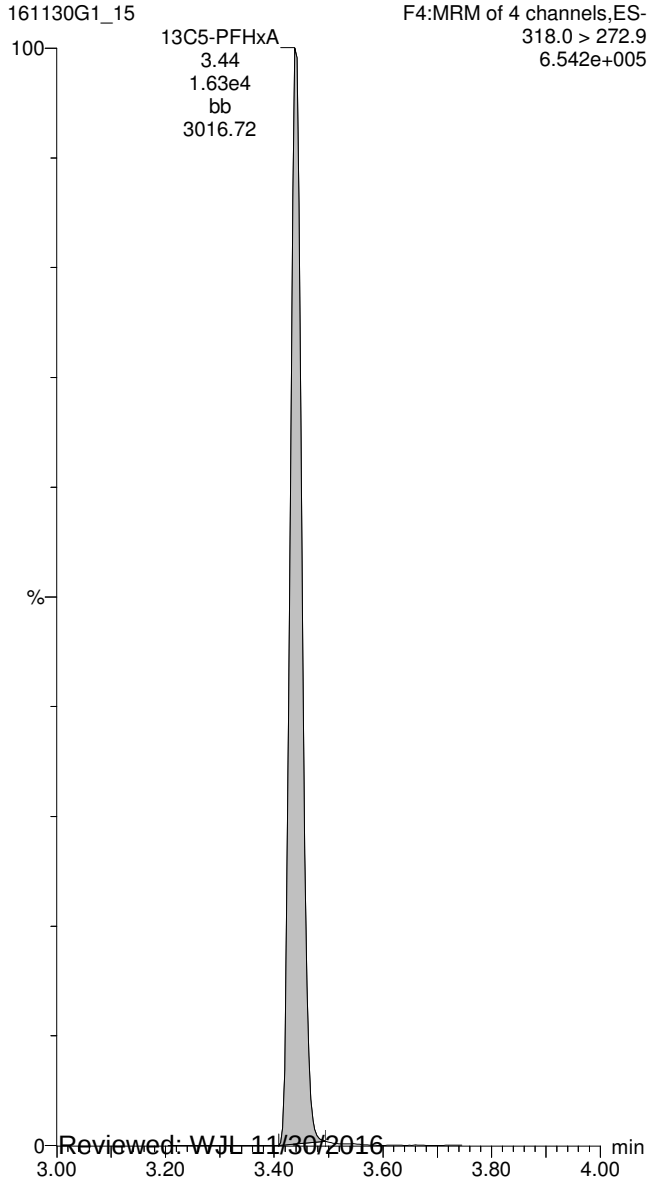
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-15.qld

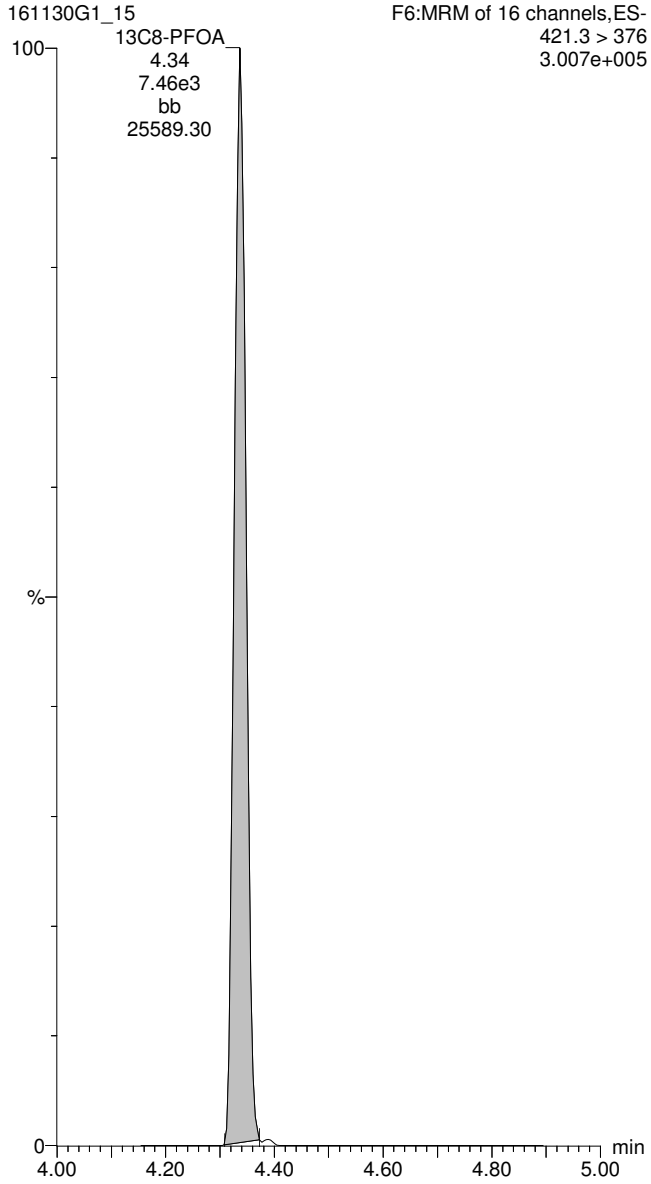
Last Altered: Wednesday, November 30, 2016 11:47:09 Pacific Standard Time
Printed: Wednesday, November 30, 2016 11:47:53 Pacific Standard Time

ID: 1601391-18 FB-M14-24_161031 0.12624, Description: FB-M14-24_161031, Name: 161130G1_15, Date: 30-Nov-2016, Time: 11:09:12, Instrument: , Lab: , User:

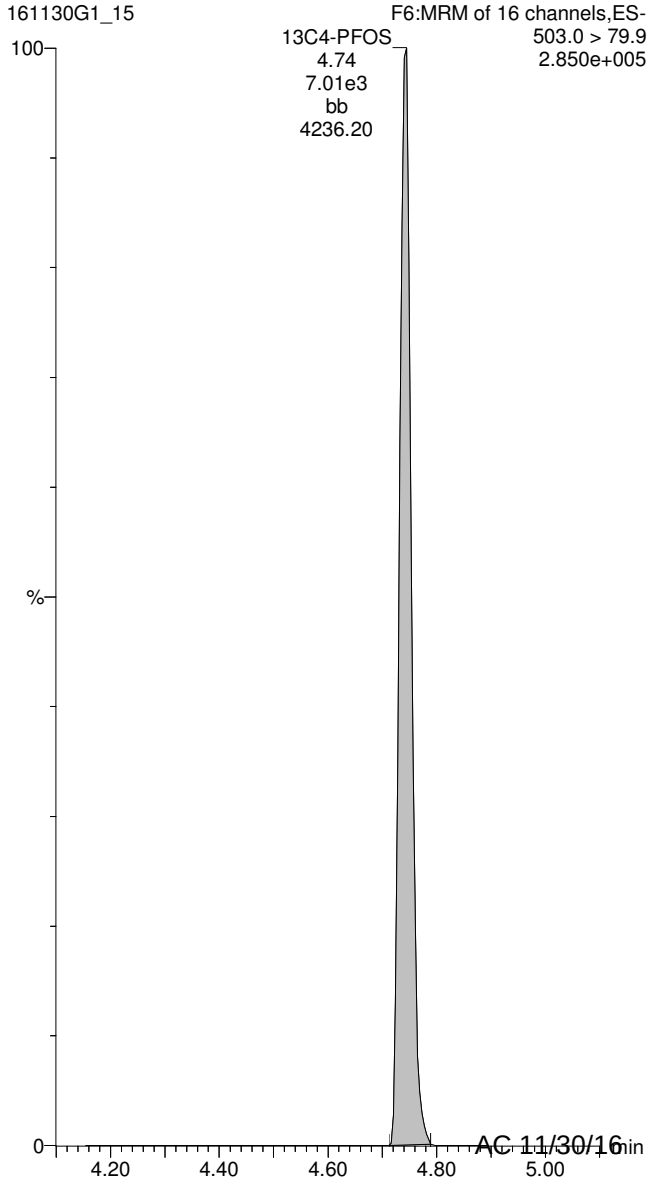
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Reviewed: WJL 11/30/2016 AC 11/30/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:20:28 Pacific Standard Time
Printed: Friday, November 25, 2016 12:22:26 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	3	PFBS	79.90	8.098e3	7.644e2		0.129	3.40	1110		
2	8	PFOA	368.90	2.525e5	1.069e3		0.129	4.68	*		
3	10	PFOS	79.92	8.355e4	2.883e2		0.129	5.09	22400		
4	15	13C3-PFBS	79.95	7.644e2	1.236e3	0.531	0.129	3.40	113	117	
5	16	13C2-PFHxA	269.90	5.225e2	1.236e3	0.905	0.129	3.80	45.2	46.7	
6	17	13C4-PFHpA	321.90	1.056e3	1.236e3	0.770	0.129	4.28	107	111	
7	18	18O2-PFHxS	102.90	1.351e2	4.212e2	0.276	0.129	4.40	112	116	
8	19	13C2-6:2 FTS	408.90	1.420e3	8.379e2	0.219	0.129	4.64	750	775	
9	20	13C2-PFOA	369.90	1.069e3	8.379e2	0.663	0.129	4.68	186	192	H
10	21	13C5-PFNA	422.90	7.050e2	8.429e2	1.019	0.129	5.02	79.4	82.0	
11	22	13C8-PFOS	79.93	2.883e2	2.938e2	0.921	0.129	5.08	103	106	
12	25	13C4-PFBA	171.90	1.248e3	1.248e3	1.000	0.129	1.92	96.7	100	
13	26	13C5-PFHxA	273.00	1.236e3	1.236e3	1.000	0.129	3.80	96.7	100	
14	27	13C3-PFHxS	80.01	4.212e2	4.212e2	1.000	0.129	4.40	96.7	100	
15	28	13C8-PFOA	375.90	8.379e2	8.379e2	1.000	0.129	4.68	96.7	100	
16	29	13C4-PFOS	79.94	2.938e2	2.938e2	1.000	0.129	5.08	96.7	100	
17	30	13C9-PFNA	427.00	8.429e2	8.429e2	1.000	0.129	5.02	96.7	100	
18	31	13C6-PFDA	474.00	4.631e2	4.631e2	1.000	0.129	5.31	96.7	100	
19	32	Total PFBS	79.90		7.644e2		0.129		1140		
20	34	Total PFOA	368.90		1.069e3		0.129		151 *		
21	35	Total PFOS	79.92		2.883e2		0.129		42500		

* Report from ug/L Targeting

Rev'd: MM 11/25/16 pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:20:28 Pacific Standard Time
Printed: Friday, November 25, 2016 12:22:26 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	8098.231	764.445	1113.9
2	32	Total PFBS	79.90	3.28	158.475	764.445	25.3

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	84168.344	135.093	13082.5
2	33	Total PFHxS	79.91	4.30	21110.309	135.093	4130.4
3	33	Total PFHxS	79.91	4.19	153.764	135.093	34.0

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	252472.359	1068.612	
2	34	Total PFOA	368.90	4.59	94845.438	1068.612	
3	34	Total PFOA	368.90	4.47	2110.832	1068.612	151.0

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.09	83546.234	288.254	22410.8
2	35	Total PFOS	79.92	4.97	68101.859	288.254	18267.8
3	35	Total PFOS	79.92	4.87	6877.750	288.254	1844.2

Vista Analytical Laboratory Q1

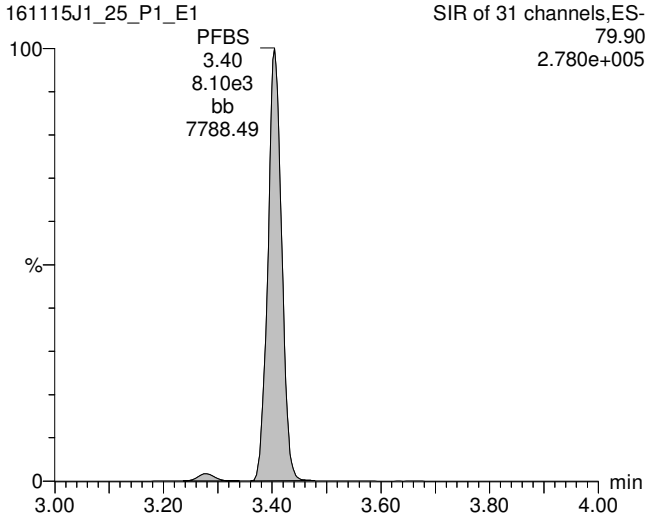
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:20:28 Pacific Standard Time
Printed: Friday, November 25, 2016 12:22:26 Pacific Standard Time

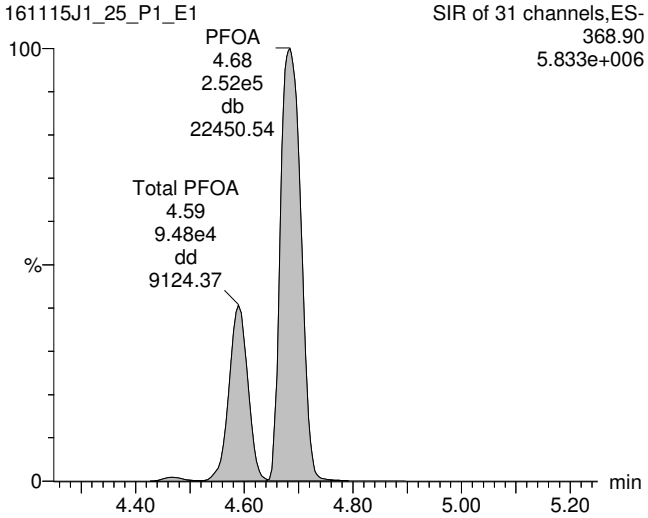
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20, Instrument: , Lab: ©PE-SCIEX, User: sciex

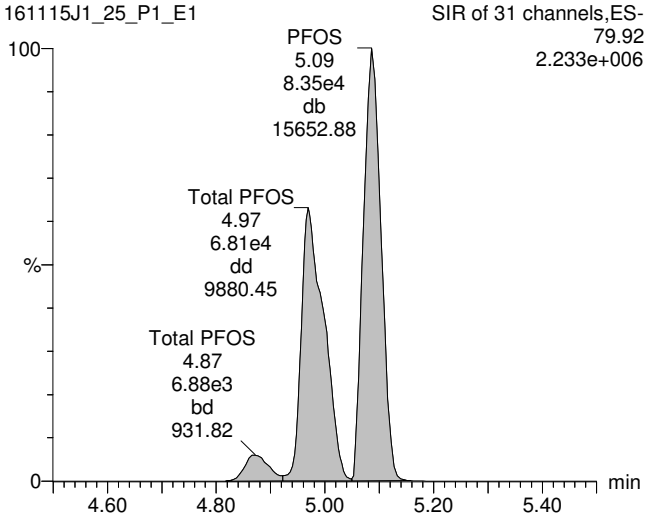
Total PFBS



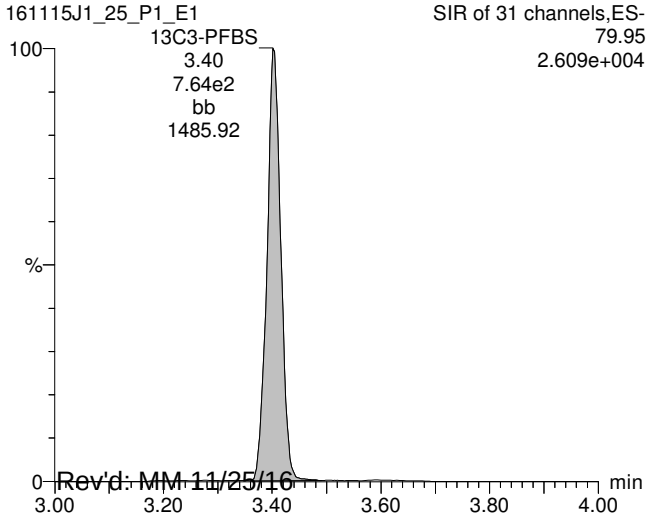
Total PFOA



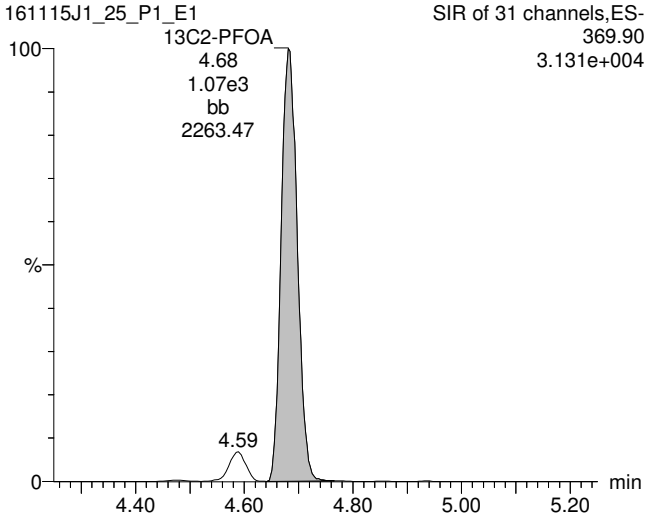
Total PFOS



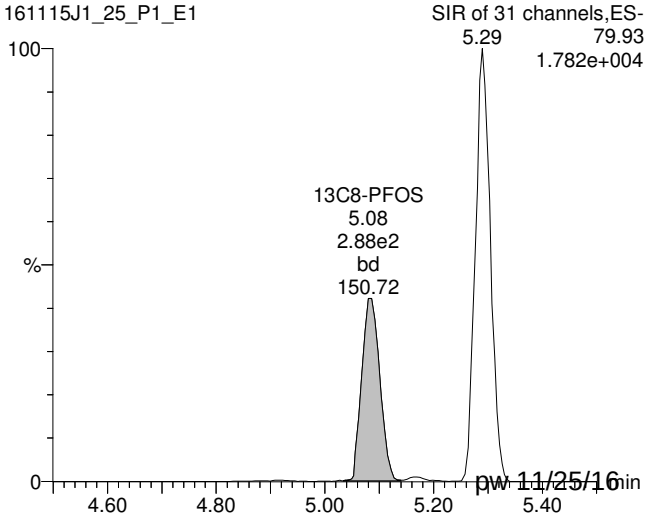
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_25_ngLTarget.qld

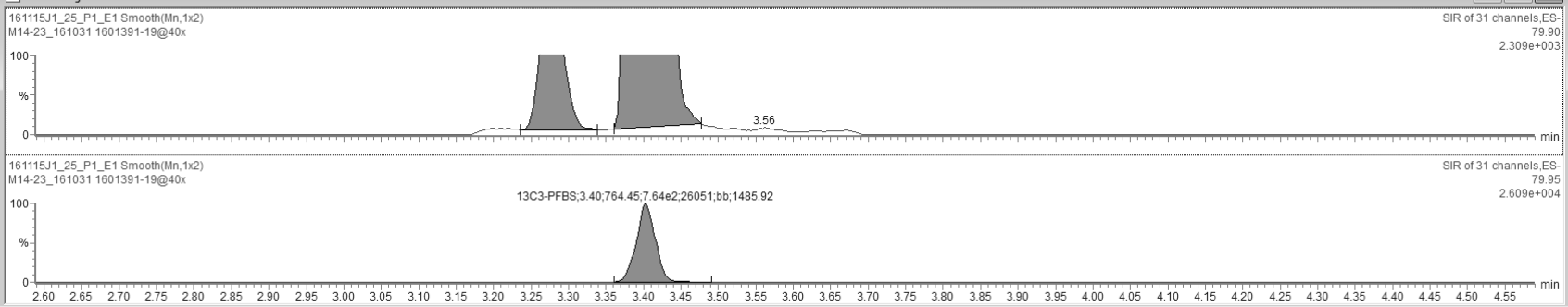
File Edit View Display Processing Window Help

161115J1_25_P1_E1 - 1601391-19@40x - M14-23_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					4.722e3		5.29	12	24			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
13	13C3-PFBA	96.254713	0.398	99.5		1.110e3	0.894	1.92	13	25			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
14	13C3-PFPeA	107.68444	0.433	111.3		1.300e3	0.945	3.11	14	26			0.817	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
15	13C3-PFBS	112.73116	0.193	116.5		7.644e2	0.531	3.40	15	26			0.895	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
16	13C2-PFHxA	45.220469	0.0911	46.7		5.225e2	0.905	3.80	16	26			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
17	13C4-PFHpA	107.40006	0.0313	111.0		1.056e3	0.770	4.28	17	26			1.126	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
18	18O2-PFHxS	112.43790	0.314	116.2		1.351e2	0.276	4.40	18	27			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
19	13C2-6:2 FTS	749.76038	0.267	775.0		1.420e3	0.219	4.64	19	28			0.990	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
20	13C2-PFOA	185.98170	0.223	192.2		1.069e3	0.663	4.68	20	28			0.999	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
21	13C5-PFNA	79.374388	0.215	82.0		7.050e2	1.019	5.02	21	30			0.999	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
22	13C8-PFOS	103.01517	1.70	106.5		2.883e2	0.921	5.08	22	29			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
23	13C2-PFDA	91.474631	0.0000...	94.6		3.883e2	0.887	5.31	23	31			1.001	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
24	13C2-8:2 FTS	264.46379	0.0000...	273.4		3.439e2	0.272	5.29	24	31			0.997	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
25	13C4-PFBA	96.741738	0.161	100.0		1.248e3	1.000	1.92	25	25			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
26	13C5-PFHxA	96.741738	0.0813	100.0		1.236e3	1.000	3.80	26	26			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
27	13C3-PFHxS	96.741738	0.126	100.0		4.212e2	1.000	4.40	27	27			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
28	13C8-PFOA	96.741738	0.0690	100.0		8.379e2	1.000	4.68	28	28			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
29	13C4-PFOS	96.741738	0.281	100.0		2.938e2	1.000	5.08	29	29			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
30	13C9-PFNA	96.741738	0.253	100.0		8.429e2	1.000	5.02	30	30			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
31	13C6-PFDA	96.741738	0.0478	100.0		4.631e2	1.000	5.31	31	31			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
32	Total PFBS	1139.1845							32					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
33	Total PFHxS	17246.946							33					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
34	Total PFOA	151.02038							34					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
35	Total PFOS	42522.749							35					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.40	2.778e5		8.098e3				8.098e3	1113.9	
2	Total PFBS	3.28	4.524e3		1.585e2				1.585e2	25.330	

Chromatogram



Ready 161115J1_25_P1_E1 NUM

Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_25_ngLTarget.qld

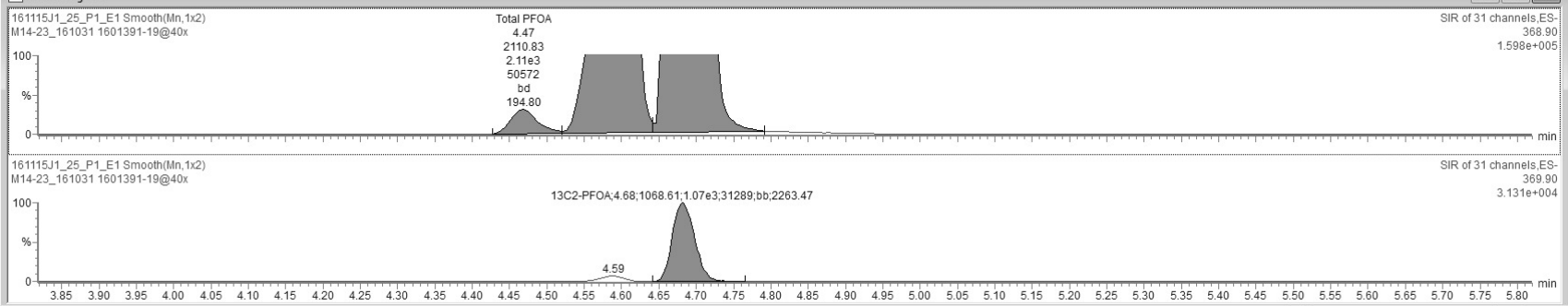
File Edit View Display Processing Window Help

161115J1_25_P1_E1 - 1601391-19@40x - M14-23_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					4.722e3		5.29	12	24			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
13	13C3-PFBA	96.254713	0.398	99.5		1.110e3	0.894	1.92	13	25			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
14	13C3-PFPeA	107.68444	0.433	111.3		1.300e3	0.945	3.11	14	26			0.817	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
15	13C3-PFBS	112.73116	0.193	116.5		7.644e2	0.531	3.40	15	26			0.895	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
16	13C2-PFHxA	45.220469	0.0911	46.7		5.225e2	0.905	3.80	16	26			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
17	13C4-PFHpA	107.40006	0.0313	111.0		1.056e3	0.770	4.28	17	26			1.126	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
18	18O2-PFHxS	112.43790	0.314	116.2		1.351e2	0.276	4.40	18	27			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
19	13C2-6:2 FTS	749.76038	0.267	775.0		1.420e3	0.219	4.64	19	28			0.990	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
20	13C2-PFOA	185.98170	0.223	192.2		1.069e3	0.663	4.68	20	28			0.999	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
21	13C5-PFNA	79.374388	0.215	82.0		7.050e2	1.019	5.02	21	30			0.999	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
22	13C8-PFOS	103.01517	1.70	106.5		2.883e2	0.921	5.08	22	29			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
23	13C2-PFDA	91.474631	0.0000...	94.6		3.883e2	0.887	5.31	23	31			1.001	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
24	13C2-8:2 FTS	264.46379	0.0000...	273.4		3.439e2	0.272	5.29	24	31			0.997	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
25	13C4-PFBA	96.741738	0.161	100.0		1.248e3	1.000	1.92	25	25			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
26	13C5-PFHxA	96.741738	0.0813	100.0		1.236e3	1.000	3.80	26	26			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
27	13C3-PFHxS	96.741738	0.126	100.0		4.212e2	1.000	4.40	27	27			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
28	13C8-PFOA	96.741738	0.0690	100.0		8.379e2	1.000	4.68	28	28			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
29	13C4-PFOS	96.741738	0.281	100.0		2.938e2	1.000	5.08	29	29			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
30	13C9-PFNA	96.741738	0.253	100.0		8.429e2	1.000	5.02	30	30			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
31	13C6-PFDA	96.741738	0.0478	100.0		4.631e2	1.000	5.31	31	31			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	YES
32	Total PFBS	1139.1845							32					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
33	Total PFHxS	17246.946							33					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
34	Total PFOA	151.02038							34					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
35	Total PFOS	42522.749							35					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.68	5.828e6		2.525e5				2.525e5		
2	Total PFOA	4.59	2.369e6		9.485e4				9.485e4		
3	Total PFOA	4.47	5.057e4		2.111e3				2.111e3	151.02	

Chromatogram



Ready 161115J1_25_P1_E1 NUM

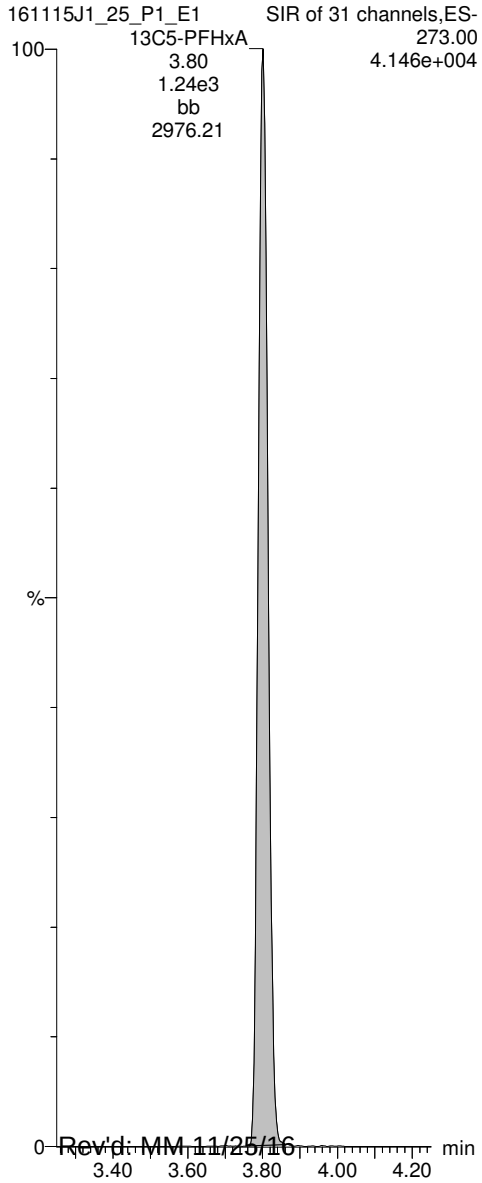
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ngLTarget.qld

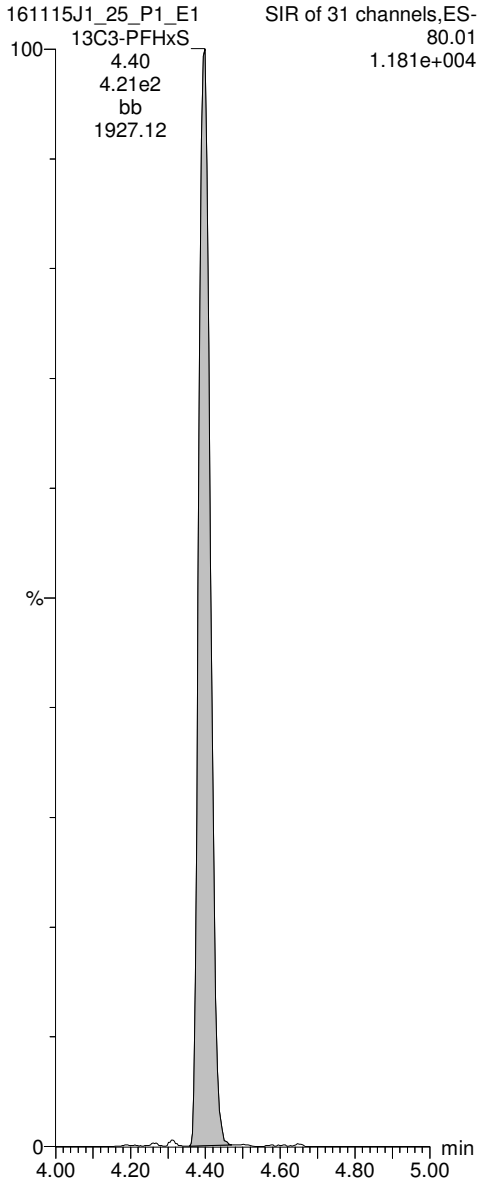
Last Altered: Friday, November 25, 2016 12:20:28 Pacific Standard Time
Printed: Friday, November 25, 2016 12:22:26 Pacific Standard Time

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20, Instrument: , Lab: ©PE-SCIEX, User: sciex

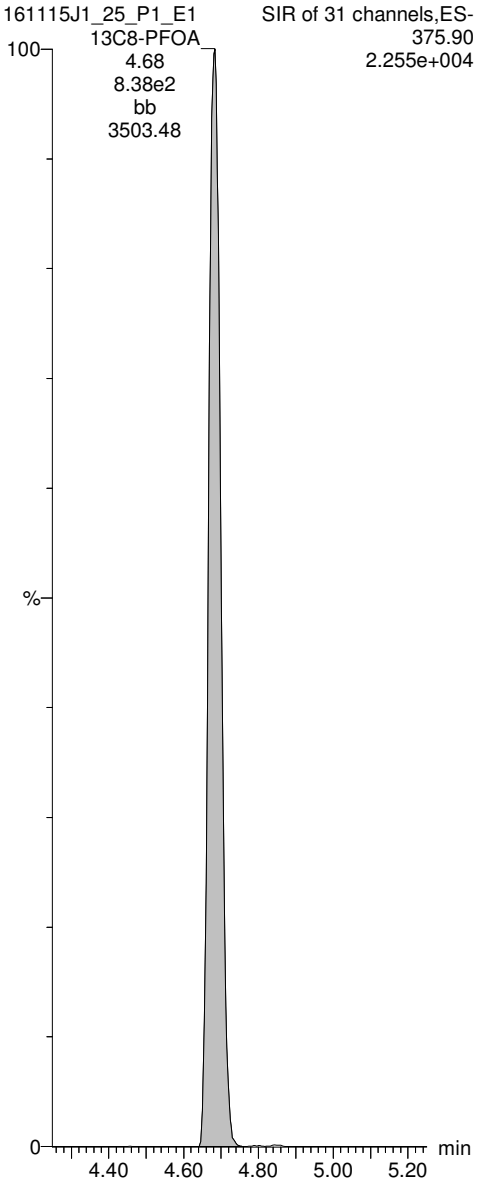
13C5-PFHxA



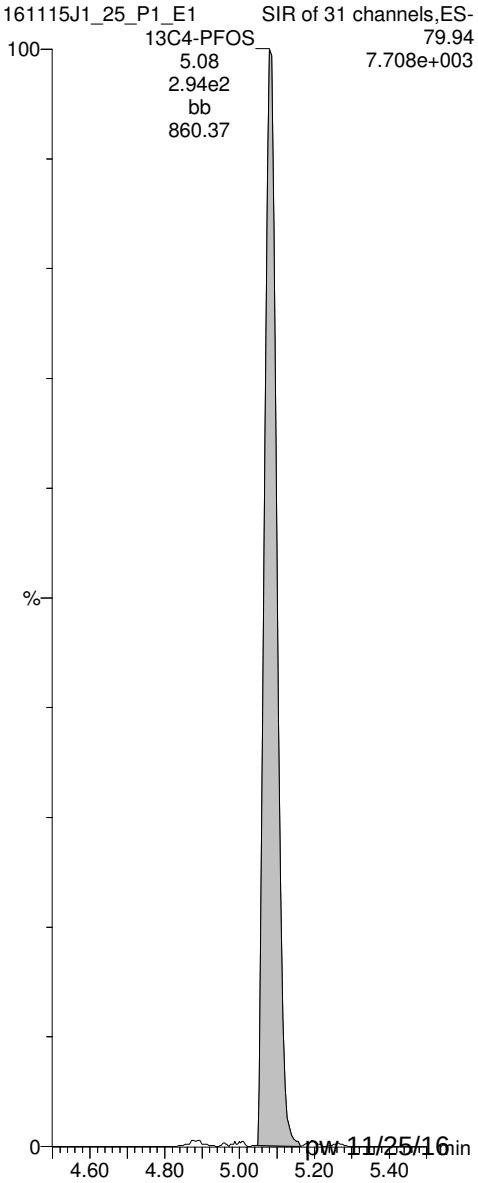
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:25:46 Pacific Standard Time
Printed: Friday, November 25, 2016 12:26:01 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	2.525e5	1.069e3		0.129	4.68	17.2		
2	20	13C2-PFOA	369.90	1.069e3	8.379e2	0.663	0.129	4.68	0.186	192	H
3	28	13C8-PFOA	375.90	8.379e2	8.379e2	1.000	0.129	4.68	0.0967	100	
4	34	Total PFOA	368.90		1.069e3		0.129		23.7		

Target = ug/L

Rev'd: MM 11/25/16 pw 11/25/16

Quantify Totals Report MassLynx 4.1 SCN815
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:25:46 Pacific Standard Time
Printed: Friday, November 25, 2016 12:26:01 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	8098.231	764.445	
2	32	Total PFBS	79.90	3.28	158.475	764.445	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.40	84168.344	135.093	18.6
2	33	Total PFHxS	79.91	4.30	21110.309	135.093	4.6
3	33	Total PFHxS	79.91	4.19	153.764	135.093	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.68	252472.359	1068.612	17.2
2	34	Total PFOA	368.90	4.59	97337.258	1068.612	6.4

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.09	83546.234	288.254	21.7
2	35	Total PFOS	79.92	4.97	68101.859	288.254	17.5
3	35	Total PFOS	79.92	4.87	6877.750	288.254	1.1

Rev'd: MM 11/25/16

pw 11/25/16

Vista Analytical Laboratory Q1

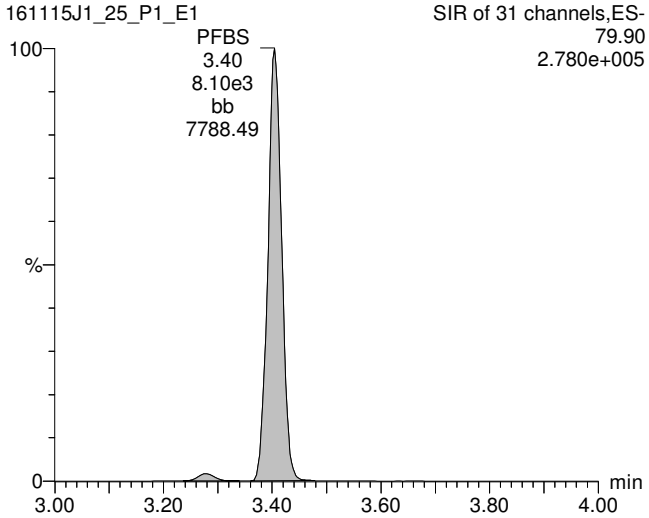
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:25:46 Pacific Standard Time
Printed: Friday, November 25, 2016 12:26:01 Pacific Standard Time

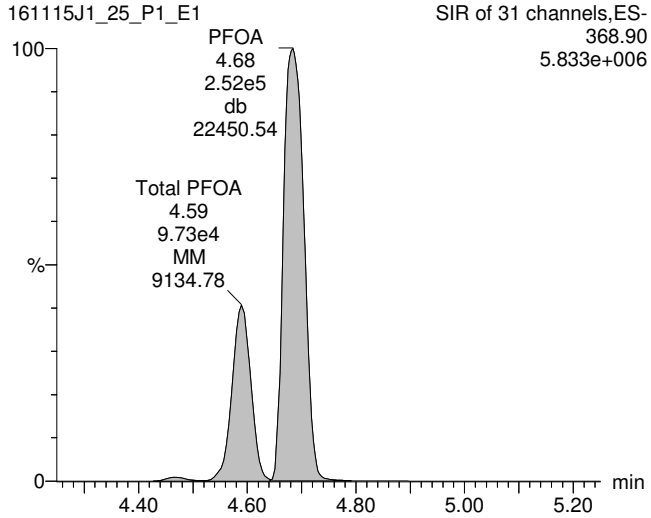
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20, Instrument: , Lab: ©PE-SCIEX, User: sciex

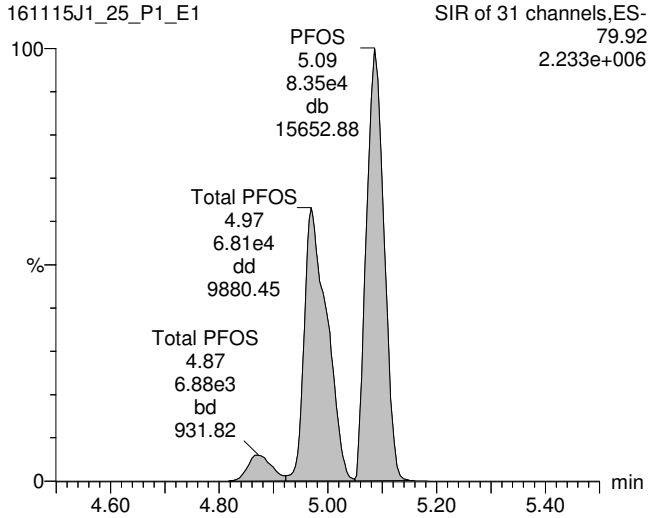
Total PFBS



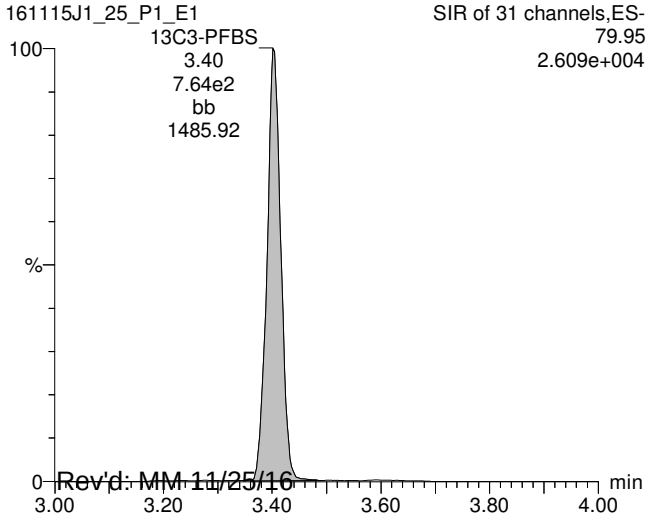
Total PFOA



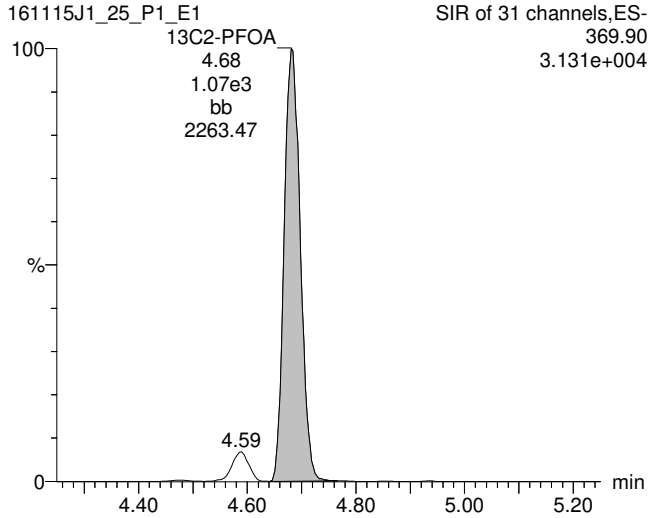
Total PFOS



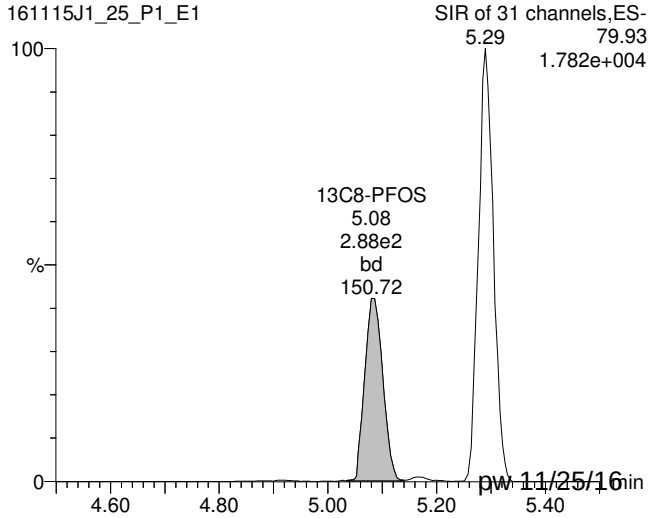
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_25_ugLTarget.qld *

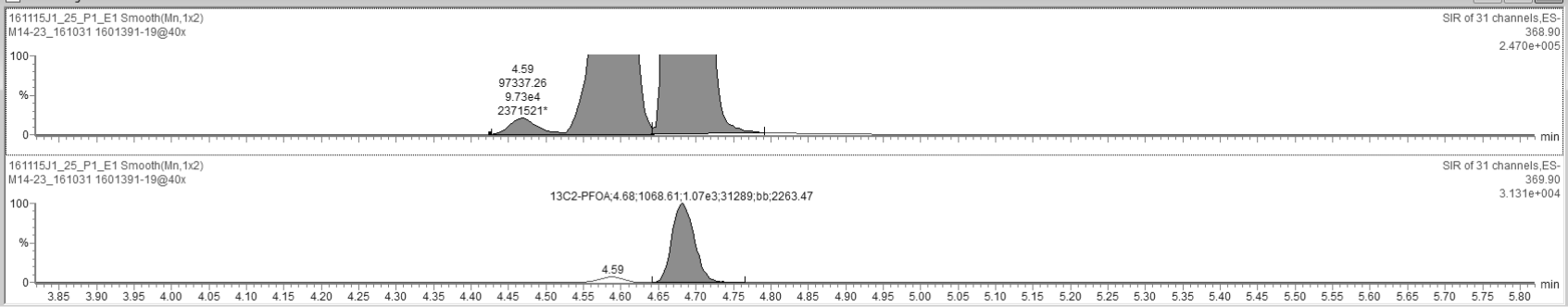
File Edit View Display Processing Window Help

161115J1_25_P1_E1 - 1601391-19@40x - M14-23_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS	1.7418845	0.558			4.722e3		5.29	12	24			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
13	13C3-PFBA	0.0962547...	0.000398	99.5		1.110e3	0.894	1.92	13	25			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
14	13C3-PFPeA	0.10768444	0.000433	111.3		1.300e3	0.945	3.11	14	26			0.817	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
15	13C3-PFBS	0.11273116	0.000193	116.5		7.644e2	0.531	3.40	15	26			0.895	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
16	13C2-PFHxA	0.0452204...	0.0000...	116.9		5.225e2	0.905	3.80	16	26			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
17	13C4-PFHpA	0.10740006	0.0000...	111.0		1.056e3	0.770	4.28	17	26			1.126	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
18	18O2-PFHxS	0.11243790	0.000314	116.2		1.351e2	0.276	4.40	18	27			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
19	13C2-6:2 FTS	0.74976038	0.000267	775.0		1.420e3	0.219	4.64	19	28			0.990	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
20	13C2-PFOA	0.18598170	0.000223	192.2		1.069e3	0.663	4.68	20	28			0.999	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
21	13C5-PFNA	0.0793743...	0.000215	82.0		7.050e2	1.019	5.02	21	30			0.999	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
22	13C8-PFOS	0.10301517	0.00170	106.5		2.883e2	0.921	5.08	22	29			1.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
23	13C2-PFDA	0.0914746...	0.0000...	94.6		3.883e2	0.887	5.31	23	31			1.001	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
24	13C2-8:2 FTS	0.26446379	0.0000...	273.4		3.439e2	0.272	5.29	24	31			0.997	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
25	13C4-PFBA	0.0967417...	0.000161	100.0		1.248e3	1.000	1.92	25	25			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
26	13C5-PFHxA	0.0967417...	0.0000...	100.0		1.236e3	1.000	3.80	26	26			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
27	13C3-PFHxS	0.0967417...	0.000126	100.0		4.212e2	1.000	4.40	27	27			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
28	13C8-PFOA	0.0967417...	0.0000...	100.0		8.379e2	1.000	4.68	28	28			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
29	13C4-PFOS	0.0967417...	0.000281	100.0		2.938e2	1.000	5.08	29	29			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
30	13C9-PFNA	0.0967417...	0.000253	100.0		8.429e2	1.000	5.02	30	30			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
31	13C6-PFDA	0.0967417...	0.0000...	100.0		4.631e2	1.000	5.31	31	31			0.000	15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
32	Total PFBS								32					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
33	Total PFHxS	23.179188							33					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
34	Total PFOA	17.217012							34					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO
35	Total PFOS	40.241156							35					15-Nov-16	20:36:20		1601391-19...	M14-23_161031	0.0	0.129	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.68	5.828e6		2.525e5				2.525e5	17.217	

Chromatogram



Ready 161115J1_25_P1_E1 NUM

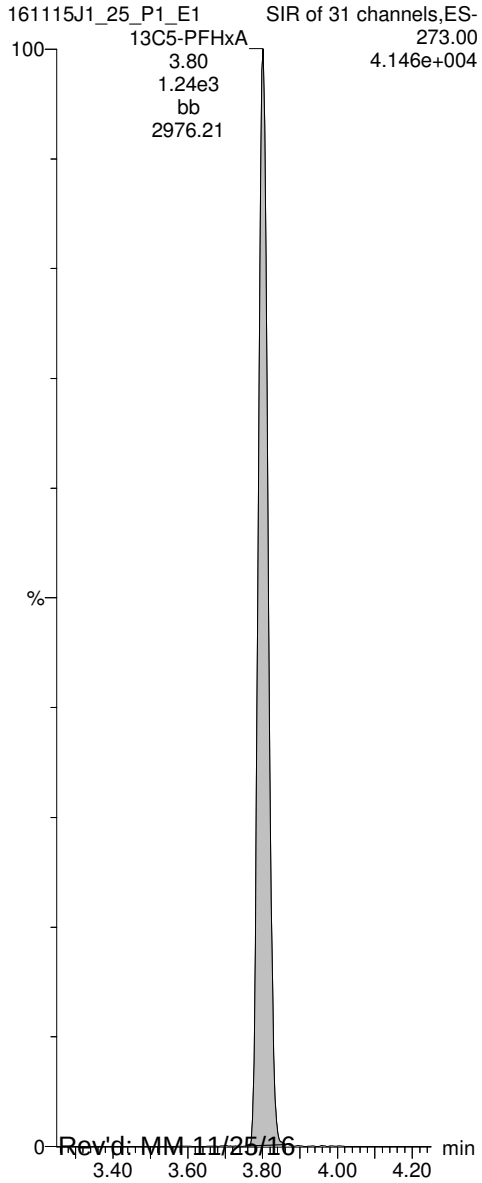
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_25_ugLTarget.qld

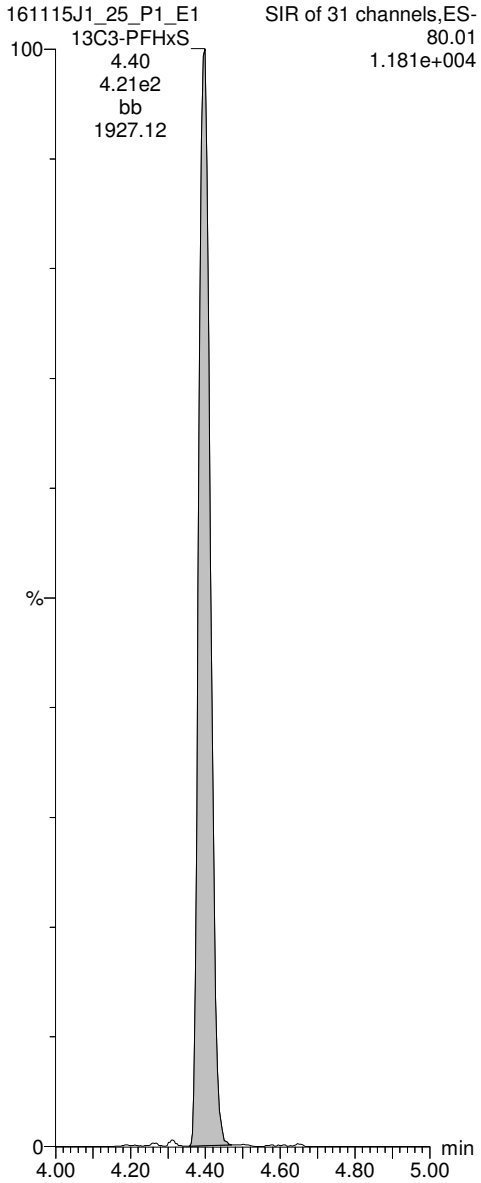
Last Altered: Friday, November 25, 2016 12:25:46 Pacific Standard Time
Printed: Friday, November 25, 2016 12:26:01 Pacific Standard Time

ID: 1601391-19@40x, Description: M14-23_161031, Name: 161115J1_25.wiff, Date: 15-Nov-2016, Time: 20:36:20, Instrument: , Lab: ©PE-SCIEX, User: sciex

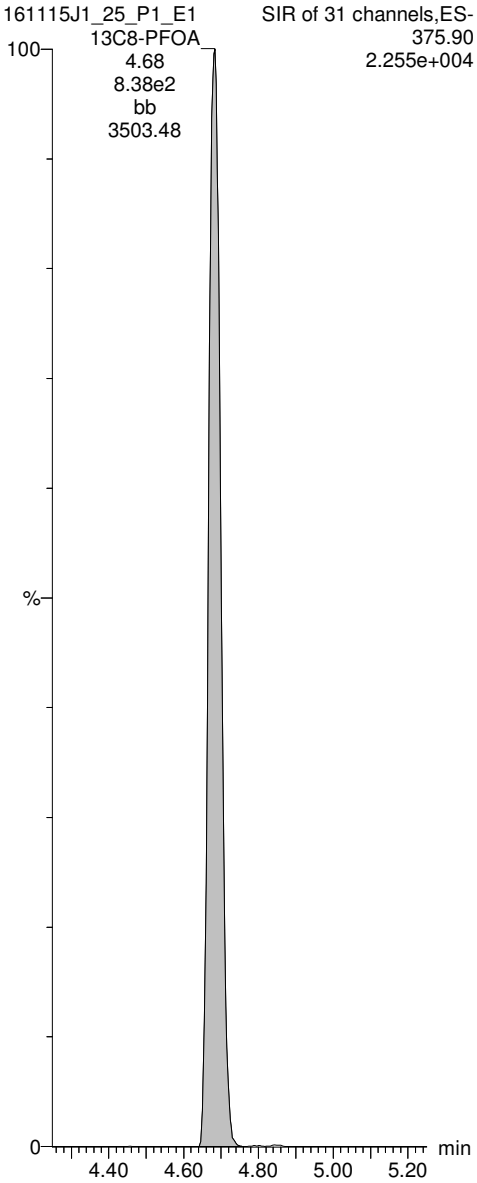
13C5-PFHxA



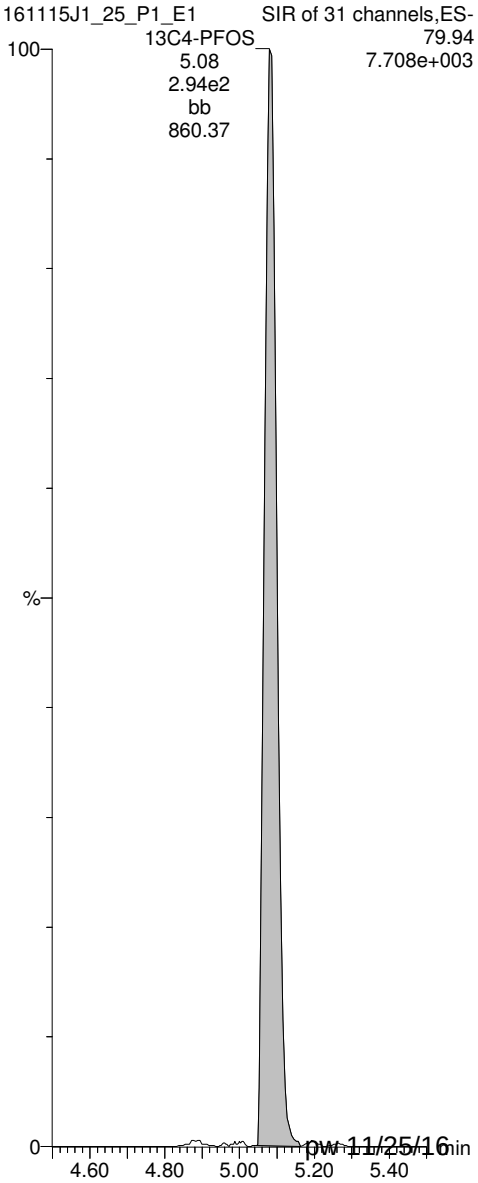
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:28:05 Pacific Standard Time
Printed: Friday, November 25, 2016 12:30:02 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	3	PFBS	79.90	4.265e3	4.418e2		0.131	3.40	1020		
2	8	PFOA	368.90	2.085e5	7.130e2		0.131	4.67	*		
3	10	PFOS	79.92	9.175e4	1.797e2		0.131	5.08	39000 E		
4	15	13C3-PFBS	79.95	4.418e2	7.483e2	0.531	0.131	3.40	106	111	
5	16	13C2-PFHxA	269.90	3.113e2	7.483e2	0.905	0.131	3.80	43.9	46.0	
6	17	13C4-PFHpA	321.90	5.715e2	7.483e2	0.770	0.131	4.28	94.8	99.2	
7	18	18O2-PFHxS	102.90	7.719e1	2.371e2	0.276	0.131	4.39	113	118	
8	19	13C2-6:2 FTS	408.90	1.899e3	5.928e2	0.219	0.131	4.63	1400	1460	
9	20	13C2-PFOA	369.90	7.130e2	5.928e2	0.663	0.131	4.67	173	181	H
10	21	13C5-PFNA	422.90	4.097e2	4.262e2	1.019	0.131	5.01	90.1	94.3	
11	22	13C8-PFOS	79.93	1.797e2	1.770e2	0.921	0.131	5.07	105	110	
12	25	13C4-PFBA	171.90	7.257e2	7.257e2	1.000	0.131	1.92	95.5	100	
13	26	13C5-PFHxA	273.00	7.483e2	7.483e2	1.000	0.131	3.80	95.5	100	
14	27	13C3-PFHxS	80.01	2.371e2	2.371e2	1.000	0.131	4.39	95.5	100	
15	28	13C8-PFOA	375.90	5.928e2	5.928e2	1.000	0.131	4.67	95.5	100	
16	29	13C4-PFOS	79.94	1.770e2	1.770e2	1.000	0.131	5.07	95.5	100	
17	30	13C9-PFNA	427.00	4.262e2	4.262e2	1.000	0.131	5.01	95.5	100	
18	31	13C6-PFDA	474.00	3.315e2	3.315e2	1.000	0.131	5.29	95.5	100	
19	32	Total PFBS	79.90		4.418e2		0.131		1040		
20	34	Total PFOA	368.90		7.130e2		0.131		132 *		
21	35	Total PFOS	79.92		1.797e2		0.131		67700		

*Report from ug/L Targeting

Rev'd: MM 11/25/16

pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:28:05 Pacific Standard Time
Printed: Friday, November 25, 2016 12:30:02 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	4264.846	441.826	1016.5
2	32	Total PFBS	79.90	3.28	84.401	441.826	22.9

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	33	Total PFHxS	79.91	4.64	5.769	77.195	2.1
2	6	PFHxS	79.91	4.40	71671.063	77.195	17419.3
3	33	Total PFHxS	79.91	4.30	15883.088	77.195	5198.1
4	33	Total PFHxS	79.91	4.19	108.191	77.195	41.4

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.67	208499.578	713.042	
2	34	Total PFOA	368.90	4.58	63794.051	713.042	
3	34	Total PFOA	368.90	4.46	1256.441	713.042	132.4

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.87	5032.014	179.740	2136.3
2	10	PFOS	79.92	5.08	91753.586	179.740	38965.4
3	35	Total PFOS	79.92	4.96	62623.730	179.740	26594.5

Rev'd: MM 11/25/16

pw 11/25/16

Vista Analytical Laboratory Q1

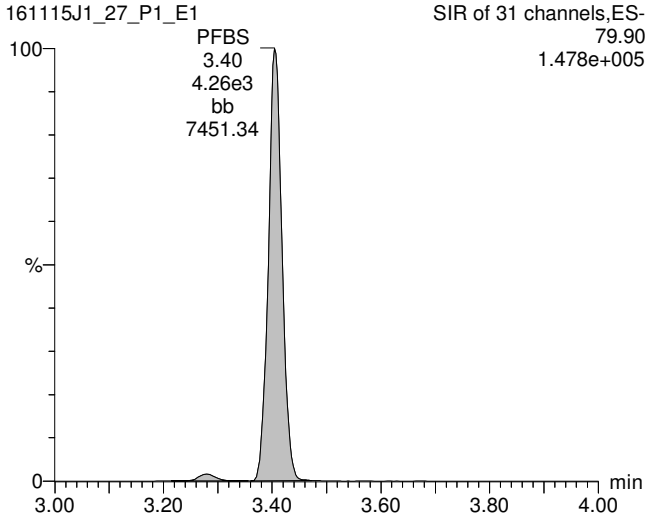
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ngLTarget.qld

Last Altered: Friday, November 25, 2016 12:28:05 Pacific Standard Time
Printed: Friday, November 25, 2016 12:30:02 Pacific Standard Time

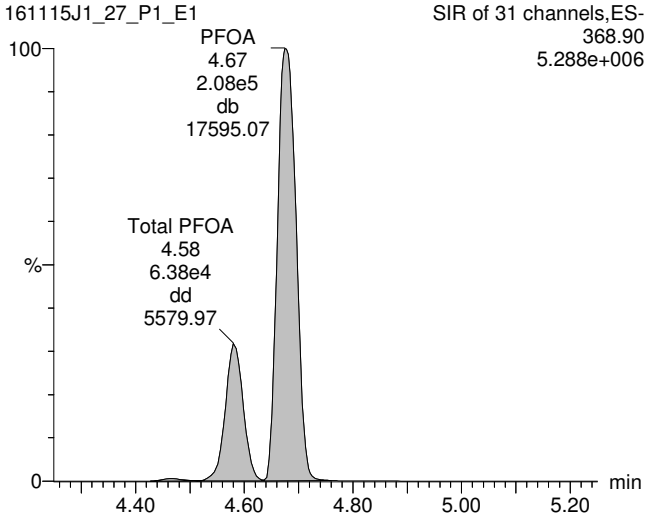
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48, Instrument: , Lab: ©PE-SCIEX, User: sciex

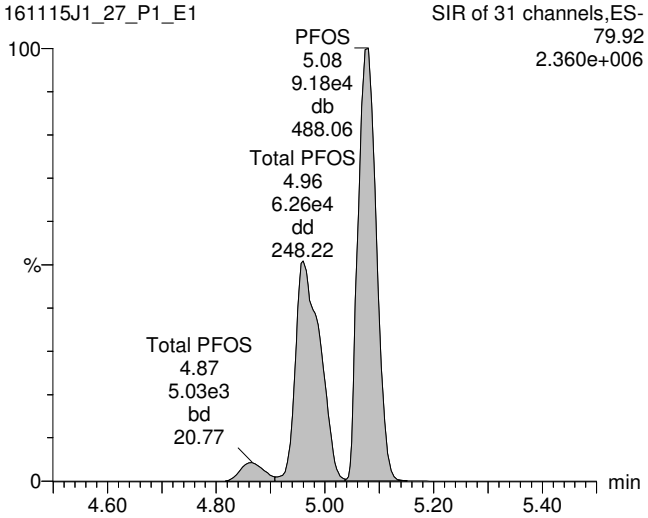
Total PFBS



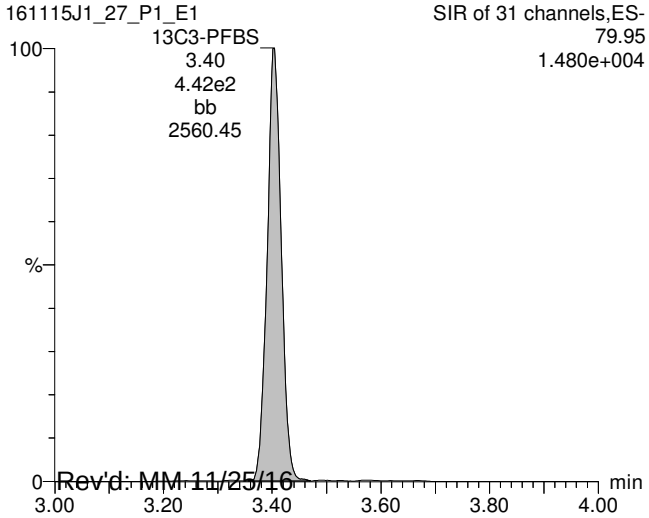
Total PFOA



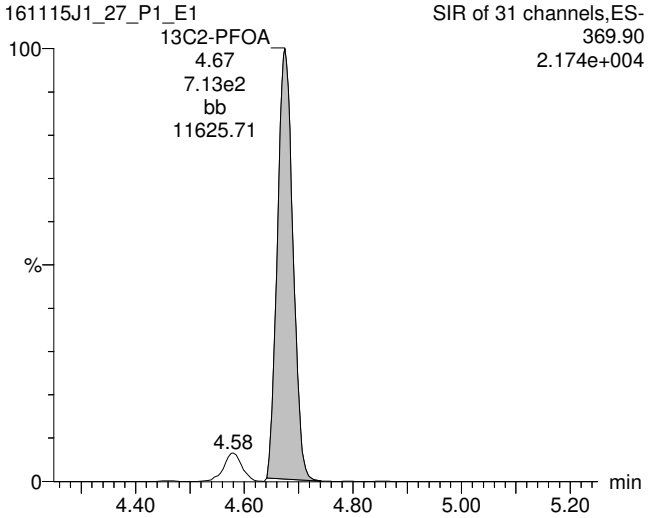
Total PFOS



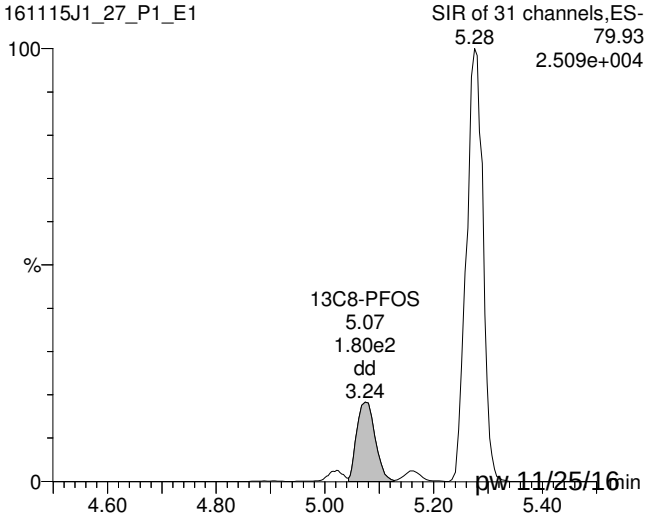
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_27_ngLTarget.qld

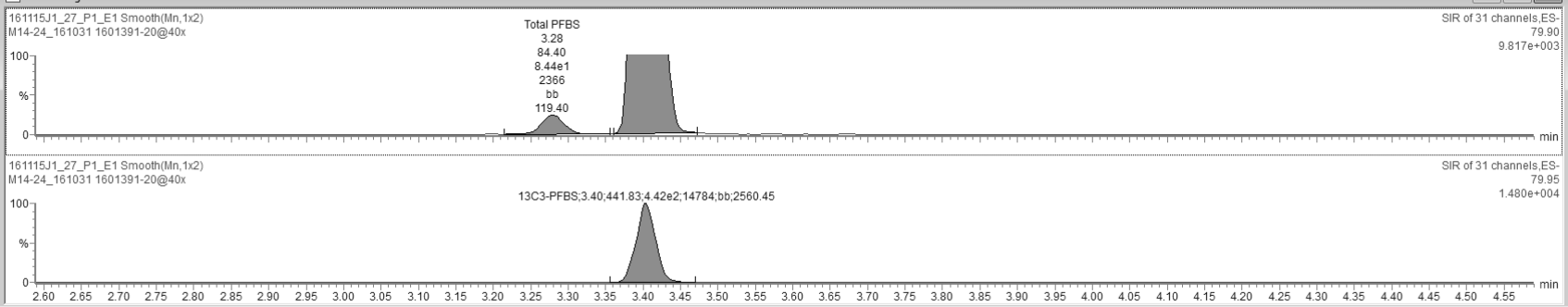
File Edit View Display Processing Window Help

161115J1_27_P1_E1 - 1601391-20@40x - M14-24_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.098e4		5.27	12	24			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
13	13C3-PFBA	95.388920	0.145	99.9		6.481e2	0.894	1.92	13	25			1.002	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
14	13C3-PFPeA	100.28272	0.666	105.0		7.429e2	0.945	3.11	14	26			0.819	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
15	13C3-PFBS	106.20509	0.104	111.2		4.418e2	0.531	3.40	15	26			0.895	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
16	13C2-PFHxA	43.922439	0.0493	46.0		3.113e2	0.905	3.80	16	26			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
17	13C4-PFHpA	94.758899	0.0469	99.2		5.715e2	0.770	4.28	17	26			1.126	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
18	18O2-PFHxS	112.66697	4.73	118.0		7.719e1	0.276	4.39	18	27			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
19	13C2-6:2 FTS	1398.7268	0.167	1464.6		1.899e3	0.219	4.63	19	28			0.991	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
20	13C2-PFOA	173.16868	0.0402	181.3		7.130e2	0.663	4.67	20	28			1.001	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
21	13C5-PFNA	90.059632	0.0469	94.3		4.097e2	1.019	5.01	21	30			1.001	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
22	13C8-PFOS	105.25500	76.3	110.2		1.797e2	0.921	5.07	22	29			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
23	13C2-PFDA	68.730259	0.0983	72.0		2.115e2	0.887	5.29	23	31			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
24	13C2-8:2 FTS	646.50954	0.344	677.0		6.095e2	0.272	5.27	24	31			0.995	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
25	13C4-PFBA	95.500038	0.175	100.0		7.257e2	1.000	1.92	25	25			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
26	13C5-PFHxA	95.500038	0.0278	100.0		7.483e2	1.000	3.80	26	26			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
27	13C3-PFHxS	95.500038	0.561	100.0		2.371e2	1.000	4.39	27	27			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
28	13C8-PFOA	95.500038	1.01	100.0		5.928e2	1.000	4.67	28	28			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
29	13C4-PFOS	95.500038	0.216	100.0		1.770e2	1.000	5.07	29	29			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
30	13C9-PFNA	95.500038	0.0000...	100.0		4.262e2	1.000	5.01	30	30			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
31	13C6-PFDA	95.500038	0.0000...	100.0		3.315e2	1.000	5.29	31	31			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
32	Total PFBS	1039.4188							32					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
33	Total PFHxS	22660.937							33					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
34	Total PFOA	132.38377							34					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
35	Total PFOS	67696.174							35					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFBS	3.40	1.476e5		4.265e3				4.265e3	1016.5	
2	Total PFBS	3.28	2.366e3		8.440e1				8.440e1	22.935	

Chromatogram



Ready 161115J1_27_P1_E1 NUM

Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_27_ngLTarget.qld

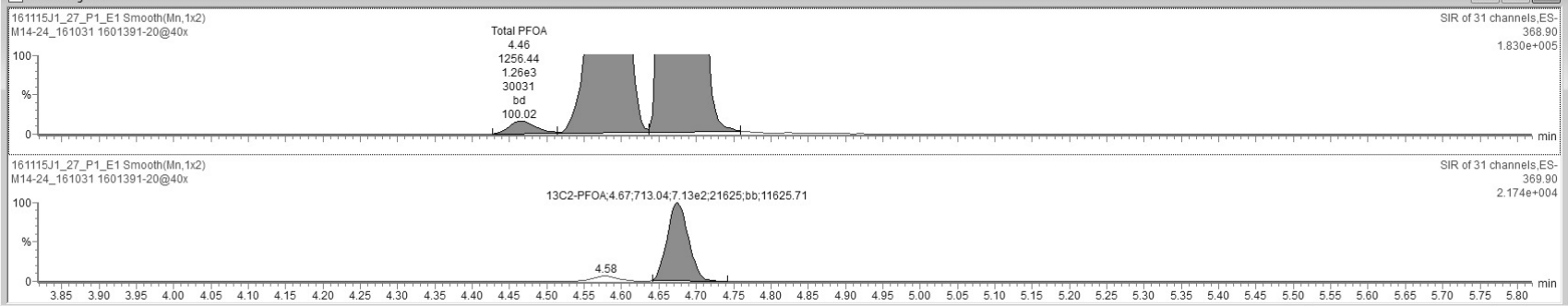
File Edit View Display Processing Window Help

161115J1_27_P1_E1 - 1601391-20@40x - M14-24_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.098e4		5.27	12	24			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
13	13C3-PFBA	95.388920	0.145	99.9		6.481e2	0.894	1.92	13	25			1.002	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
14	13C3-PFPeA	100.28272	0.666	105.0		7.429e2	0.945	3.11	14	26			0.819	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
15	13C3-PFBS	106.20509	0.104	111.2		4.418e2	0.531	3.40	15	26			0.895	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
16	13C2-PFHxA	43.922439	0.0493	46.0		3.113e2	0.905	3.80	16	26			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
17	13C4-PFHpA	94.758899	0.0469	99.2		5.715e2	0.770	4.28	17	26			1.126	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
18	18O2-PFHxS	112.66697	4.73	118.0		7.719e1	0.276	4.39	18	27			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
19	13C2-6:2 FTS	1398.7268	0.167	1464.6		1.899e3	0.219	4.63	19	28			0.991	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
20	13C2-PFOA	173.16868	0.0402	181.3		7.130e2	0.663	4.67	20	28			1.001	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
21	13C5-PFNA	90.059632	0.0469	94.3		4.097e2	1.019	5.01	21	30			1.001	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
22	13C8-PFOS	105.25500	76.3	110.2		1.797e2	0.921	5.07	22	29			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
23	13C2-PFDA	68.730259	0.0983	72.0		2.115e2	0.887	5.29	23	31			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
24	13C2-8:2 FTS	646.50954	0.344	677.0		6.095e2	0.272	5.27	24	31			0.995	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
25	13C4-PFBA	95.500038	0.175	100.0		7.257e2	1.000	1.92	25	25			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
26	13C5-PFHxA	95.500038	0.0278	100.0		7.483e2	1.000	3.80	26	26			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
27	13C3-PFHxS	95.500038	0.561	100.0		2.371e2	1.000	4.39	27	27			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
28	13C8-PFOA	95.500038	1.01	100.0		5.928e2	1.000	4.67	28	28			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
29	13C4-PFOS	95.500038	0.216	100.0		1.770e2	1.000	5.07	29	29			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
30	13C9-PFNA	95.500038	0.0000...	100.0		4.262e2	1.000	5.01	30	30			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
31	13C6-PFDA	95.500038	0.0000...	100.0		3.315e2	1.000	5.29	31	31			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
32	Total PFBS	1039.4188							32					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
33	Total PFHxS	22660.937							33					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
34	Total PFOA	132.38377							34					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
35	Total PFOS	67696.174							35					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.67	5.283e6		2.085e5				2.085e5		
2	Total PFOA	4.58	1.675e6		6.379e4				6.379e4		
3	Total PFOA	4.46	3.003e4		1.256e3				1.256e3	132.38	

Chromatogram



Ready 161115J1_27_P1_E1 NUM

p

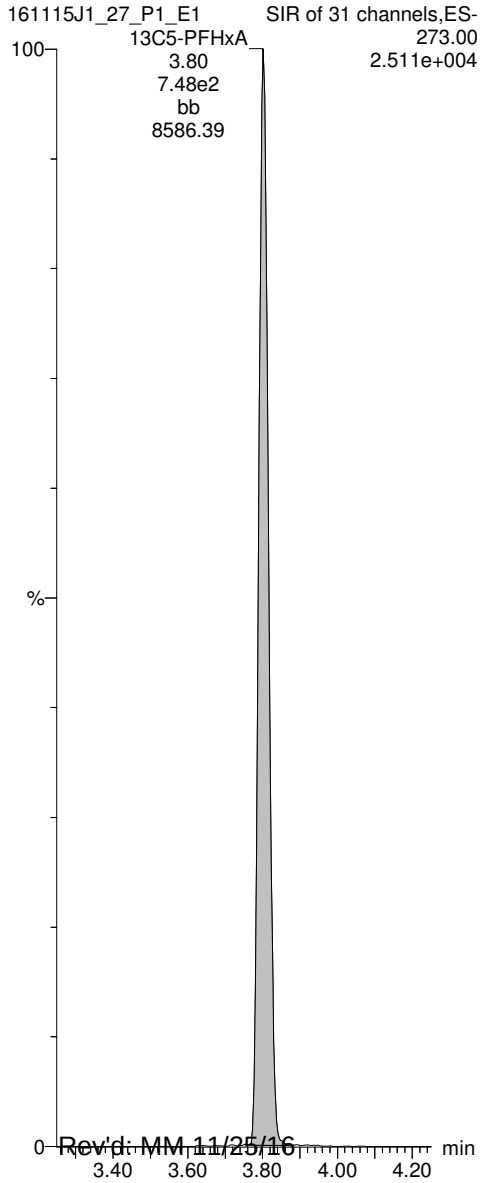
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ngLTarget.qld

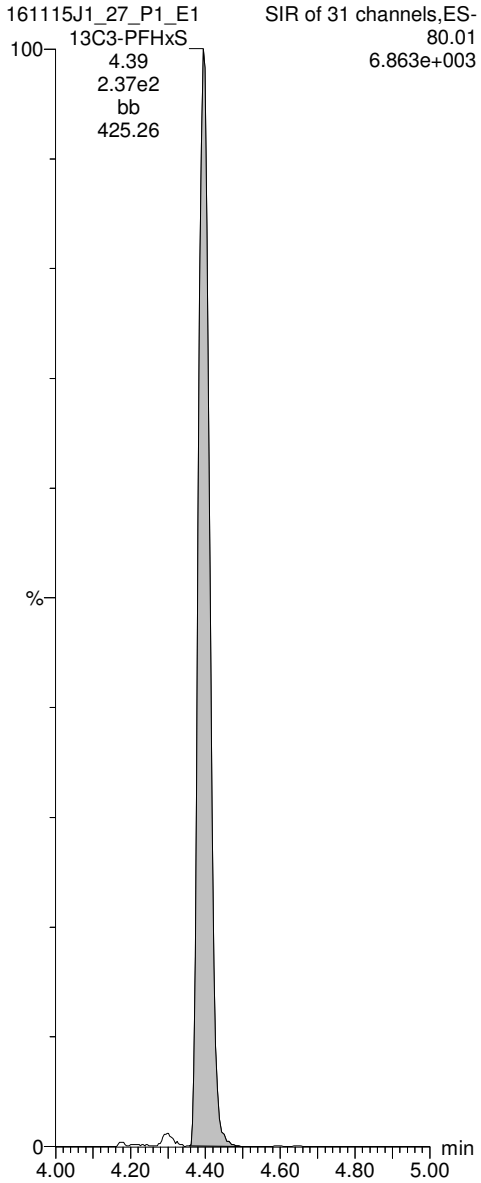
Last Altered: Friday, November 25, 2016 12:28:05 Pacific Standard Time
Printed: Friday, November 25, 2016 12:30:02 Pacific Standard Time

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48, Instrument: , Lab: ©PE-SCIEX, User: sciex

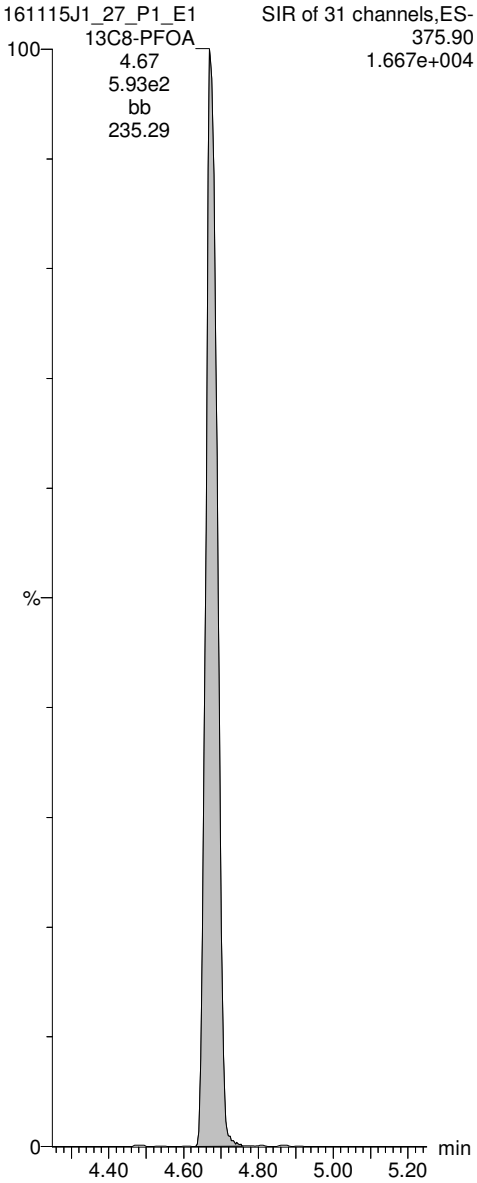
13C5-PFHxA



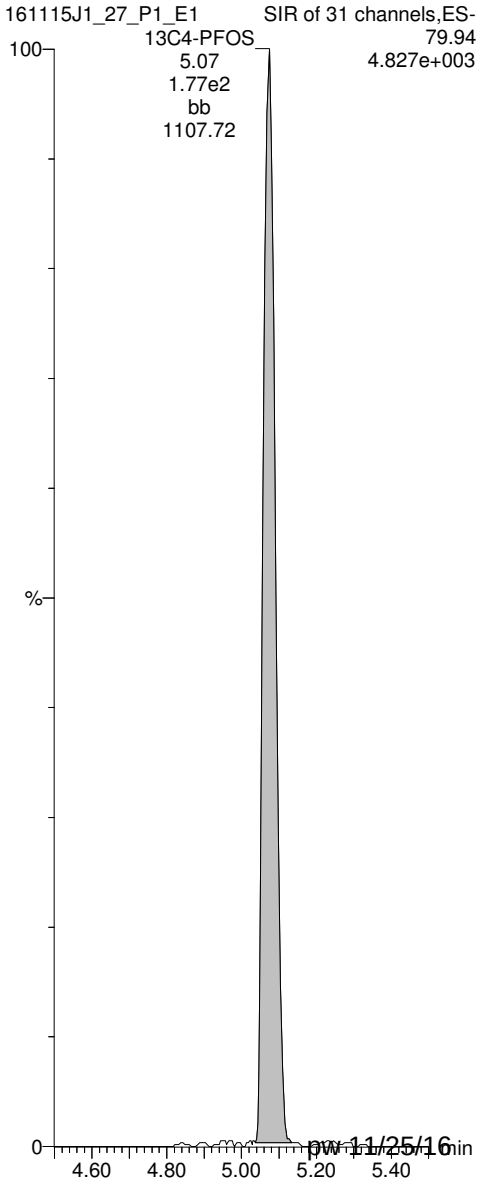
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:33:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:34:14 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec	
1	8	PFOA	368.90	2.093e5	7.130e2		0.131	4.67	21.2		
2	20	13C2-PFOA	369.90	7.130e2	5.928e2	0.663	0.131	4.67	0.173	181	H
3	28	13C8-PFOA	375.90	5.928e2	5.928e2	1.000	0.131	4.67	0.0955	100	
4	34	Total PFOA	368.90		7.130e2		0.131		27.6		

Target = ug/L

Rev'd: MM 11/25/16 pw 11/25/16

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:33:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:34:14 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.40	4264.846	441.826	
2	32	Total PFBS	79.90	3.28	84.401	441.826	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	33	Total PFHxS	79.91	4.64	5.769	77.195	
2	6	PFHxS	79.91	4.40	71671.063	77.195	27.4
3	33	Total PFHxS	79.91	4.30	15883.088	77.195	6.0
4	33	Total PFHxS	79.91	4.19	108.191	77.195	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.67	209312.422	713.042	21.2
2	34	Total PFOA	368.90	4.58	65525.805	713.042	6.4

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	35	Total PFOS	79.92	4.87	5032.014	179.740	1.4
2	10	PFOS	79.92	5.08	91753.586	179.740	38.2
3	35	Total PFOS	79.92	4.96	62623.730	179.740	25.8

Vista Analytical Laboratory Q1

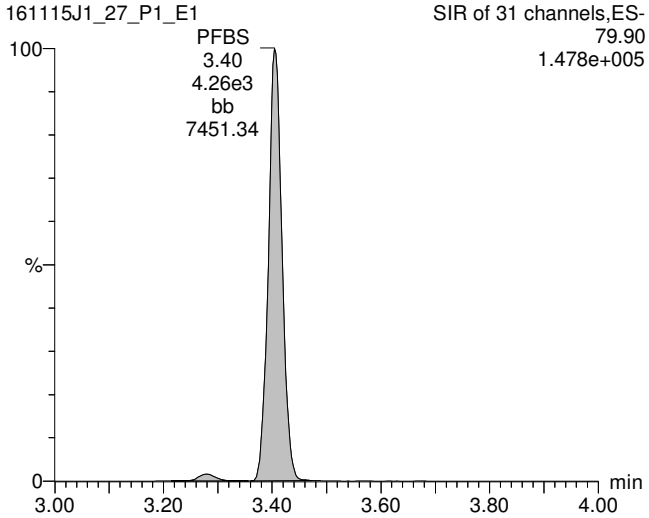
Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ugLTarget.qld

Last Altered: Friday, November 25, 2016 12:33:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:34:14 Pacific Standard Time

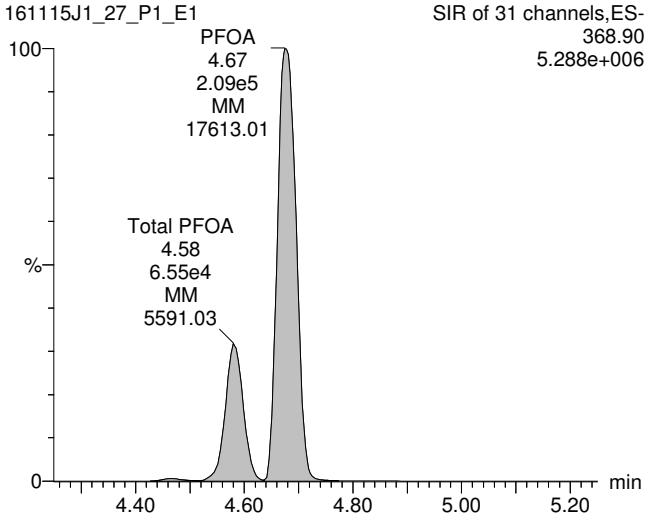
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_161118.mdb 25 Nov 2016 08:57:09
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48, Instrument: , Lab: ©PE-SCIEX, User: sciex

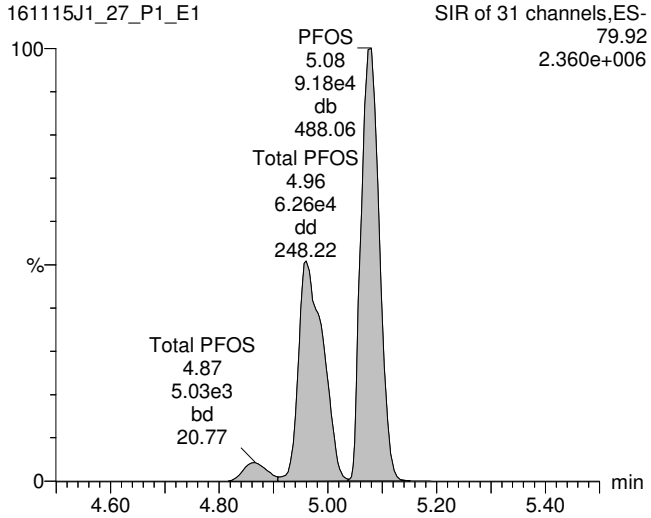
Total PFBS



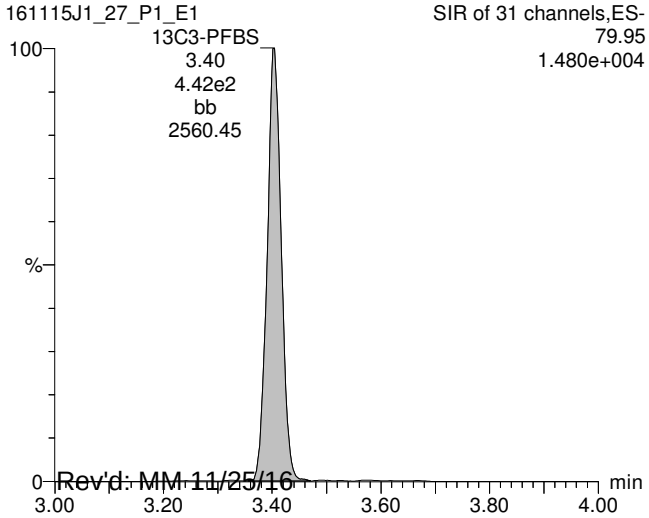
Total PFOA



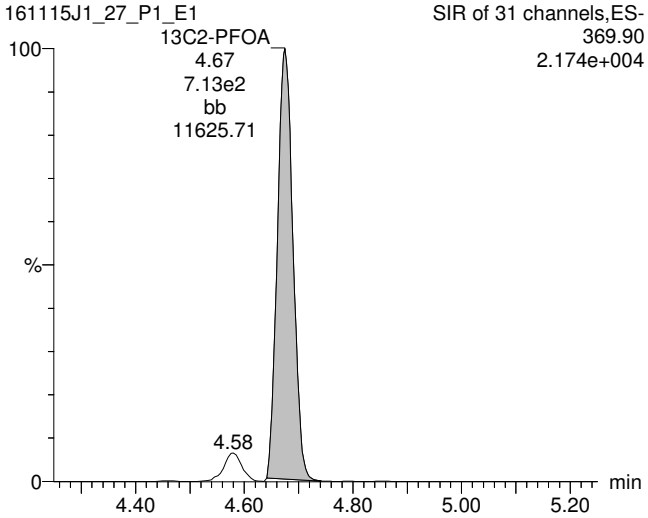
Total PFOS



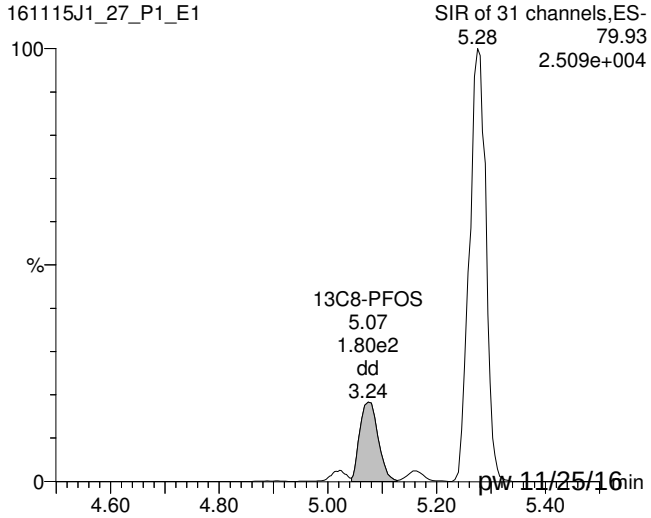
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

TargetLynx - 161115J1_27_ngLTarget.qld

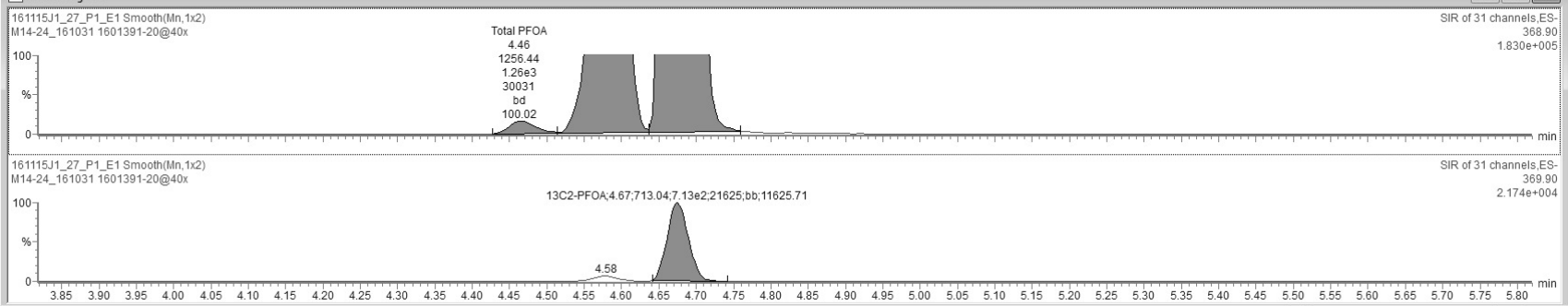
File Edit View Display Processing Window Help

161115J1_27_P1_E1 - 1601391-20@40x - M14-24_161031

	Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1º Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
12	8:2 FTS					1.098e4		5.27	12	24			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
13	13C3-PFBA	95.388920	0.145	99.9		6.481e2	0.894	1.92	13	25			1.002	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
14	13C3-PFPeA	100.28272	0.666	105.0		7.429e2	0.945	3.11	14	26			0.819	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
15	13C3-PFBS	106.20509	0.104	111.2		4.418e2	0.531	3.40	15	26			0.895	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
16	13C2-PFHxA	43.922439	0.0493	46.0		3.113e2	0.905	3.80	16	26			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
17	13C4-PFHpA	94.758899	0.0469	99.2		5.715e2	0.770	4.28	17	26			1.126	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
18	18O2-PFHxS	112.66697	4.73	118.0		7.719e1	0.276	4.39	18	27			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
19	13C2-6:2 FTS	1398.7268	0.167	1464.6		1.899e3	0.219	4.63	19	28			0.991	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
20	13C2-PFOA	173.16868	0.0402	181.3		7.130e2	0.663	4.67	20	28			1.001	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
21	13C5-PFNA	90.059632	0.0469	94.3		4.097e2	1.019	5.01	21	30			1.001	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
22	13C8-PFOS	105.25500	76.3	110.2		1.797e2	0.921	5.07	22	29			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
23	13C2-PFDA	68.730259	0.0983	72.0		2.115e2	0.887	5.29	23	31			1.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
24	13C2-8:2 FTS	646.50954	0.344	677.0		6.095e2	0.272	5.27	24	31			0.995	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
25	13C4-PFBA	95.500038	0.175	100.0		7.257e2	1.000	1.92	25	25			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
26	13C5-PFHxA	95.500038	0.0278	100.0		7.483e2	1.000	3.80	26	26			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
27	13C3-PFHxS	95.500038	0.561	100.0		2.371e2	1.000	4.39	27	27			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
28	13C8-PFOA	95.500038	1.01	100.0		5.928e2	1.000	4.67	28	28			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
29	13C4-PFOS	95.500038	0.216	100.0		1.770e2	1.000	5.07	29	29			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
30	13C9-PFNA	95.500038	0.0000...	100.0		4.262e2	1.000	5.01	30	30			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
31	13C6-PFDA	95.500038	0.0000...	100.0		3.315e2	1.000	5.29	31	31			0.000	15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	YES
32	Total PFBS	1039.4188							32					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
33	Total PFHxS	22660.937							33					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
34	Total PFOA	132.38377							34					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO
35	Total PFOS	67696.174							35					15-Nov-16	21:00:48		1601391-20...	M14-24_161031	0.0	0.131	C18_V...	NO

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	PFOA	4.67	5.283e6		2.085e5				2.085e5		
2	Total PFOA	4.58	1.675e6		6.379e4				6.379e4		
3	Total PFOA	4.46	3.003e4		1.256e3				1.256e3	132.38	

Chromatogram



Ready 161115J1_27_P1_E1 NUM

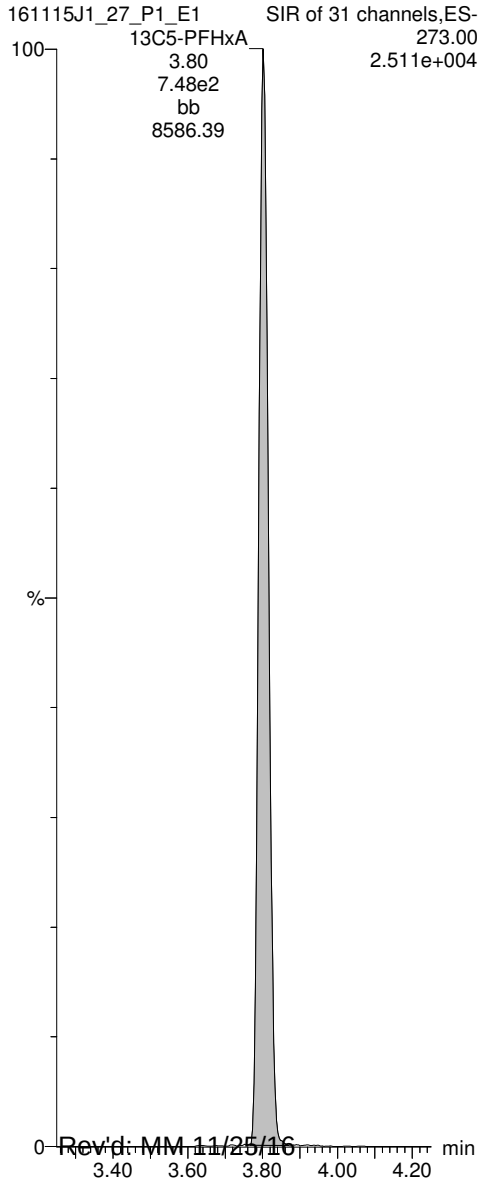
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161115J1\161115J1_27_ugLTarget.qld

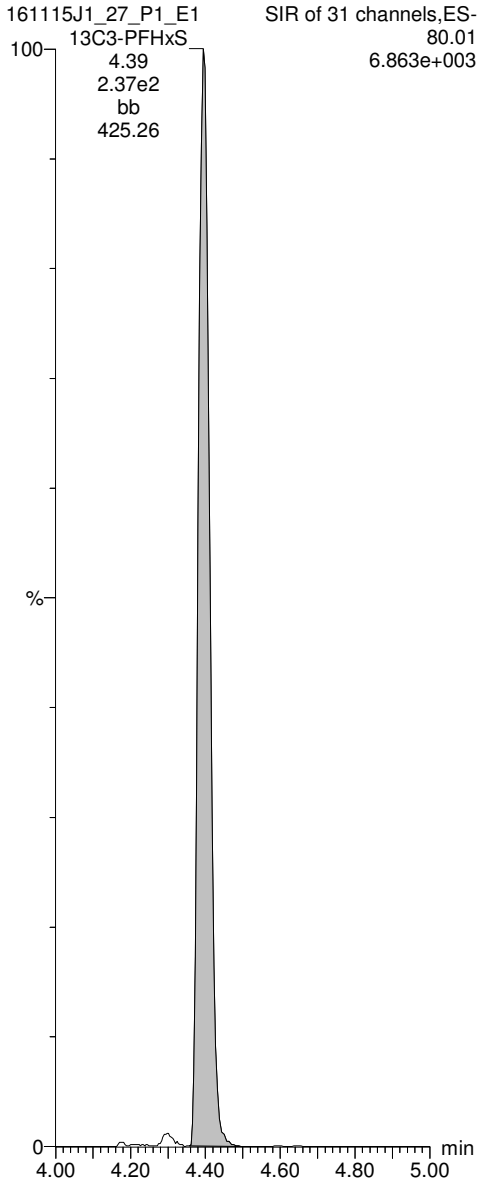
Last Altered: Friday, November 25, 2016 12:33:35 Pacific Standard Time
Printed: Friday, November 25, 2016 12:34:14 Pacific Standard Time

ID: 1601391-20@40x, Description: M14-24_161031, Name: 161115J1_27.wiff, Date: 15-Nov-2016, Time: 21:00:48, Instrument: , Lab: ©PE-SCIEX, User: sciex

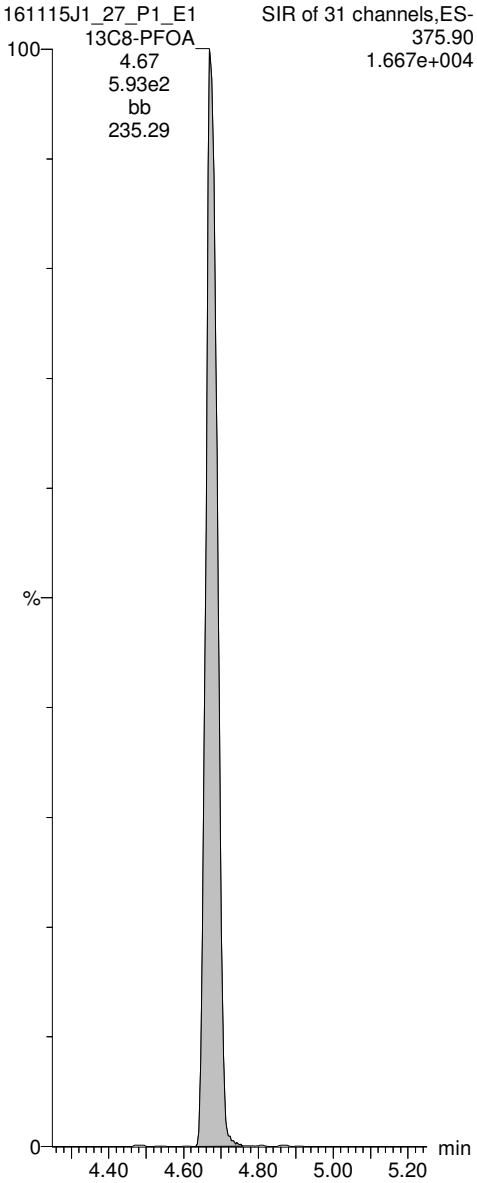
13C5-PFHxA



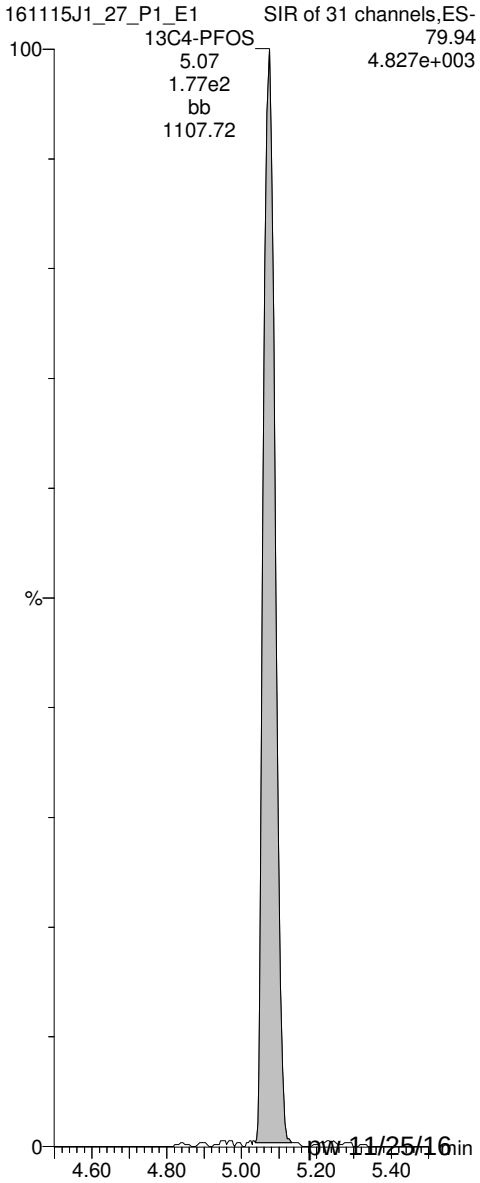
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/25/16 pw 11/25/16

CONTINUING CALIBRATION

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_02.qld

Last Altered: Tuesday, November 15, 2016 10:02:30 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:03:28 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_02.wiff, Date: 14-Nov-2016, Time: 16:14:49, ID: ST161114J2-1 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.71e4	1.19e4		1.000	1.95	27.3	109.2	75-125
2	2	PFPeA	218.90	2.66e4	1.31e4		1.000	3.14	27.9	111.4	
3	3	PFBS	79.90	1.35e4	7.37e3		1.000	3.42	29.2	116.6	
4	4	PFHxA	268.90	2.36e4	5.10e3		1.000	3.81	27.1	108.6	
5	5	PFHpA	318.90	1.91e4	9.92e3		1.000	4.29	28.5	114.1	
6	6	PFHxS	79.91	1.08e4	1.48e3		1.000	4.41	28.1	112.5	
7	7	6:2 FTS	406.90	5.97e3	3.11e3		1.000	4.64	26.5	106.0	
8	8	PFOA	368.90	2.37e4	8.44e3		1.000	4.68	28.3	113.1	
9	9	PFNA	419.00	1.52e4	7.40e3		1.000	5.02	28.4	113.6	
10	10	PFOS	79.92	9.29e3	3.69e3		1.000	5.09	25.0	100.1	
11	11	PFDA	469.00	8.28e3	3.87e3		1.000	5.30	26.4	105.8	
12	12	8:2 FTS	506.90	2.30e3	9.85e2		1.000	5.28	28.9	115.5	
13	13	13C3-PFBA	172.00	1.19e4	1.67e4	0.894	1.000	1.95	9.93	79.5	60-150
14	14	13C3-PFPeA	221.90	1.31e4	1.70e4	0.945	1.000	3.13	10.2	81.2	
15	15	13C3-PFBS	79.95	7.37e3	1.70e4	0.531	1.000	3.42	10.2	81.6	
16	16	13C2-PFHxA	269.90	5.10e3	1.70e4	0.905	1.000	3.81	4.14	82.7	
17	17	13C4-PFHpA	321.90	9.92e3	1.70e4	0.770	1.000	4.29	9.47	75.7	
18	18	18O2-PFHxS	102.90	1.48e3	7.00e3	0.276	1.000	4.41	9.58	76.6	
19	19	13C2-6:2 FTS	408.90	3.11e3	1.63e4	0.219	1.000	4.64	10.9	87.5	40-150
20	20	13C2-PFOA	369.90	8.44e3	1.63e4	0.663	1.000	4.68	9.78	78.2	60-150
21	21	13C5-PFNA	422.90	7.40e3	9.37e3	1.019	1.000	5.02	9.69	77.5	50-150
22	22	13C8-PFOS	79.93	3.69e3	4.90e3	0.921	1.000	5.08	10.2	81.8	60-150
23	23	13C2-PFDA	470.00	3.87e3	5.77e3	0.887	1.000	5.30	9.47	75.8	
24	24	13C2-8:2 FTS	508.70	9.85e2	5.77e3	0.272	1.000	5.28	7.86	62.9	40-150
25	25	13C4-PFBA	171.90	1.67e4	1.67e4	1.000	1.000	1.95	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.70e4	1.70e4	1.000	1.000	3.81	12.5	100.0	
27	27	13C3-PFHxS	80.01	7.00e3	7.00e3	1.000	1.000	4.41	12.5	100.0	
28	28	13C8-PFOA	375.90	1.63e4	1.63e4	1.000	1.000	4.68	12.5	100.0	
29	29	13C4-PFOS	79.94	4.90e3	4.90e3	1.000	1.000	5.08	12.5	100.0	
30	30	13C9-PFNA	427.00	9.37e3	9.37e3	1.000	1.000	5.02	12.5	100.0	
31	31	13C6-PFDA	474.00	5.77e3	5.77e3	1.000	1.000	5.30	12.5	100.0	

PW 11/15/16

Printing Time: 10:33:46
Printing Date: Tuesday, November 15, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161114J2_01	11/14/2016 16:02:37	IPA	IPA
2	161114J2_02	11/14/2016 16:14:49	ST161114J2-1 PFC C3.5 16K1120	PFC C3.5 16K1120A A
3	161114J2_03	11/14/2016 16:27:00	IPA	IPA
4	161114J2_04	11/14/2016 16:39:16	B6K0041-BS1	OPR
5	161114J2_05	11/14/2016 16:51:31	B6K0052-BS1	OPR
6	161114J2_06	11/14/2016 17:03:46	B6K0078-BS1	OPR
7	161114J2_07	11/14/2016 17:15:57	IPA	IPA
8	161114J2_08	11/14/2016 17:28:15	B6K0041-BLK1	Method Blank
9	161114J2_09	11/14/2016 17:40:28	B6K0052-BLK1	Method Blank
10	161114J2_10	11/14/2016 17:52:43	B6K0078-BLK1	Method Blank
11	161114J2_11	11/14/2016 18:04:55	1601385-01	WURTS_EB004JH-102716
12	161114J2_12	11/14/2016 18:17:10	1601385-02	WURTS_VAS15010-20-23
13	161114J2_13	11/14/2016 18:29:25	1601385-03	WURTS_VAS15010-20-23_FD
14	161114J2_14	11/14/2016 18:41:40	1601385-04	WURTS_VAS15010-30-33
15	161114J2_15	11/14/2016 18:53:54	1601385-05	WURTS_VAS15011-16-19
16	161114J2_16	11/14/2016 19:06:09	1601385-06	WURTS_VAS15011-26-29
17	161114J2_17	11/14/2016 19:18:23	1601385-07	WURTS_VAS15011-36-39
18	161114J2_18	11/14/2016 19:30:39	1601385-08	WURTS_VAS15011-6-9
19	161114J2_19	11/14/2016 19:42:53	1601385-09	WURTS_VAS15012-18-21
20	161114J2_20	11/14/2016 19:55:09	1601385-10	WURTS_VAS15012-28-31
21	161114J2_21	11/14/2016 20:07:26	IPA	IPA
22	161114J2_22	11/14/2016 20:19:40	ST161114J2-2 PFC C3.5 16K1120	PFC C3.5 16K1120A A
23	161114J2_23	11/14/2016 20:31:55	IPA	IPA
24	161114J2_24	11/14/2016 20:44:10	1601385-11	WURTS_VAS15012-38-41
25	161114J2_25	11/14/2016 20:56:23	1601385-12	WURTS_VAS15012-8-11
26	161114J2_26	11/14/2016 21:08:37	1601391-01	DUP06_161031
27	161114J2_27	11/14/2016 21:20:51	1601391-08	M14-09D_161031
28	161114J2_28	11/14/2016 21:33:02	1601391-09	M14-09S_161031
29	161114J2_29	11/14/2016 21:45:17	1601391-10	M14-14_161031
30	161114J2_30	11/14/2016 21:57:31	1601391-11	M14-22_161031
31	161114J2_31	11/14/2016 22:09:41	1601391-12	EB17_161031
32	161114J2_32	11/14/2016 22:21:58	1601391-19	M14-23_161031
33	161114J2_33	11/14/2016 22:34:13	1601391-20	M14-24_161031
34	161114J2_34	11/14/2016 22:46:28	IPA	IPA
35	161114J2_35	11/14/2016 22:58:43	ST161114J2-3 PFC C3.5 16K1120	PFC C3.5 16K1120A A
36	161114J2_36	11/14/2016 23:10:58	IPA	IPA
37	161114J2_37	11/14/2016 23:23:13	B6K0052-MS1	Matrix Spike
38	161114J2_38	11/14/2016 23:35:28	B6K0052-MSD1	Matrix Spike Dup
39	161114J2_39	11/14/2016 23:47:43	B6K0052-MS2	Matrix Spike
40	161114J2_40	11/14/2016 23:59:59	B6K0052-MSD2	Matrix Spike Dup
41	161114J2_41	11/15/2016 00:12:12	1601401-01	OW2C-MW19-1116
42	161114J2_42	11/15/2016 00:24:28	1601401-02	OW2E-MW19-1116
43	161114J2_43	11/15/2016 00:36:39	1601401-03	OW2B-MW41-1116
44	161114J2_44	11/15/2016 00:48:54	1601401-04	203MW-19-1116
45	161114J2_45	11/15/2016 01:01:08	1601401-05	JTC-MW-B-1116
46	161114J2_46	11/15/2016 01:13:22	1601401-06	OC-MW03-1116
47	161114J2_47	11/15/2016 01:25:33	1601401-07	OC-MW01-1116
48	161114J2_48	11/15/2016 01:37:49	1601401-08	OC-MW02-1116
49	161114J2_49	11/15/2016 01:50:04	1601401-09	OW26-MW1-1116

	Sample Name	Acquisition Date	Sample ID	Sample Comment
50	161114J2_50	11/15/2016 02:02:20	1601401-10	OW26-MW1P 1116
51	161114J2_51	11/15/2016 02:14:35	IPA	IPA
52	161114J2_52	11/15/2016 02:26:51	ST161114J2-4 PFC C3.5 16K1120	PFC C3.5 16K1120A A
53	161114J2_53	11/15/2016 02:39:05	IPA	IPA
54	161114J2_54	11/15/2016 02:51:20	1601401-11	OC-FB-110216
55	161114J2_55	11/15/2016 03:03:35	1601401-12	OC-EB-110216
56	161114J2_56	11/15/2016 03:15:50	1601401-13	MW-BG10-1116
57	161114J2_57	11/15/2016 03:28:06	B6K0064-MS1	Matrix Spike
58	161114J2_58	11/15/2016 03:40:23	B6K0064-MSD1	Matrix Spike Dup
59	161114J2_59	11/15/2016 03:52:40	1601405-01	CASTL-PUBAM21-110316
60	161114J2_60	11/15/2016 04:04:52	1601405-02	CASTL-PUBAM21-110316FD
61	161114J2_61	11/15/2016 04:17:07	1601405-03	CASTL-FB-VIS-110316
62	161114J2_62	11/15/2016 04:29:21	1601409-01	WURTS-EB006JH-103116
63	161114J2_63	11/15/2016 04:41:31	1601409-02	WURTS-EB007JH-110116
64	161114J2_64	11/15/2016 04:53:48	IPA	IPA
65	161114J2_65	11/15/2016 05:06:02	ST161114J2-5 PFC C3.5 16K1120	PFC C3.5 16K1120A A
66	161114J2_66	11/15/2016 05:18:17	IPA	IPA
67	161114J2_67	11/15/2016 05:30:28	B6K0064-BS1	OPR
68	161114J2_68	11/15/2016 05:42:45	IPA	IPA
69	161114J2_69	11/15/2016 05:55:01	B6K0064-BLK1	Method Blank
70	161114J2_70	11/15/2016 06:07:15	1601409-03	WURTS-VAS04006-22-25
71	161114J2_71	11/15/2016 06:19:30	1601409-04	WURTS-VAS04006-32-35
72	161114J2_72	11/15/2016 06:31:44	B6K0064-MS2	Matrix Spike
73	161114J2_73	11/15/2016 06:43:56	B6K0064-MSD2	Matrix Spike Dup
74	161114J2_74	11/15/2016 06:56:12	1601409-05	WURTS-VAS04007-20-23
75	161114J2_75	11/15/2016 07:08:27	1601409-06	WURTS-VAS04007-30-33
76	161114J2_76	11/15/2016 07:20:42	1601409-07	WURTS-VAS04007-40-43
77	161114J2_77	11/15/2016 07:32:58	1601409-08	WURTS-VAS04007-50-53
78	161114J2_78	11/15/2016 07:45:13	1601409-09	WURTS-VAS04008-24-27
79	161114J2_79	11/15/2016 07:57:28	1601409-10	WURTS-VAS04008-34-37
80	161114J2_80	11/15/2016 08:09:42	1601409-11	WURTS-VAS04008-44-47
81	161114J2_81	11/15/2016 08:21:53	1601409-12	WURTS-VAS04008-54-57
82	161114J2_82	11/15/2016 08:34:06	IPA	IPA
83	161114J2_83	11/15/2016 08:46:21	ST161114J2-6 PFC C3.5 16K1120	PFC C3.5 16K1120A A
84	161114J2_84	11/15/2016 08:58:36	IPA	IPA

LC Calibration Standards Review Checklist Q2

			ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manaul Integrations	NA
Calibration ID:	ST161114J2-1	L M H	NA	✓	✓	✓	✓	✓	✓
Calibration ID:	-2	L M H	✓	✓	✓	✓	✓	✓	✓
Calibration ID:	-3	L M H	✓	✓	✓	✓	✓	✓	✓
Calibration ID:	-4	L M H	✓	✓	✓	✓	✓	✓	✓
Calibration ID:	-5	L M H	✓	✓	✓	✓	✓	✓	✓
Calibration ID:	-6	L M H	✓	✓	✓	✓	✓	✓	✓
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 10/14/16

Comments:
PFC List 18A

Reviewed By: AC 11/15/16
Initials/Date

Vista Analytical Laboratory Q2

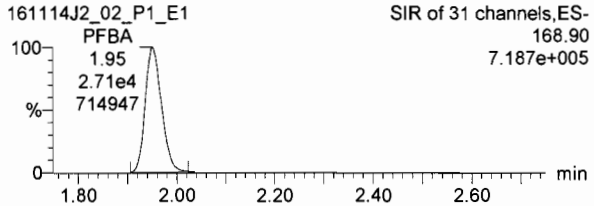
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_02.qld

Last Altered: Tuesday, November 15, 2016 10:02:30 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:03:46 Pacific Standard Time

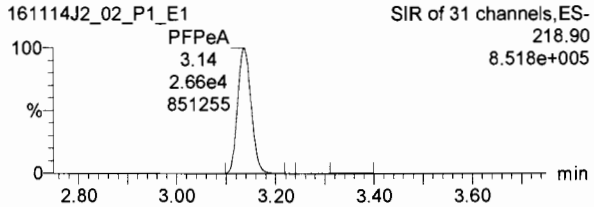
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_02.wiff, Date: 14-Nov-2016, Time: 16:14:49, ID: ST161114J2-1 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

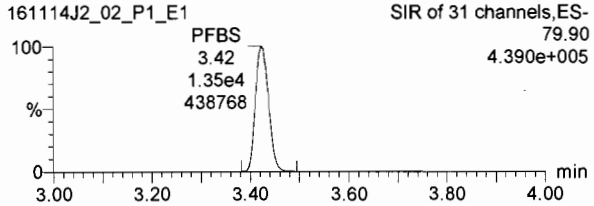
PFBA



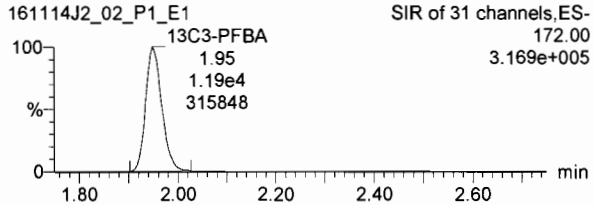
PFPeA



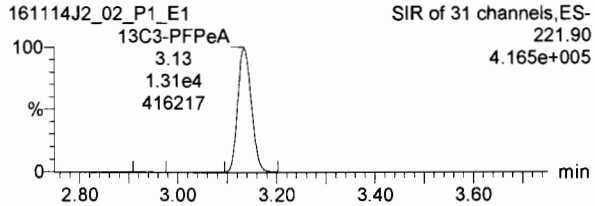
PFBS



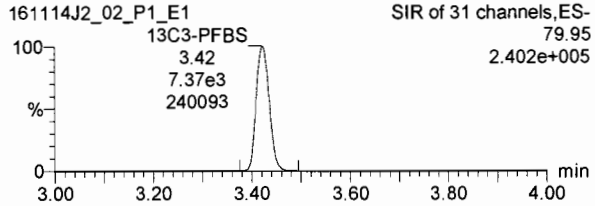
13C3-PFBA



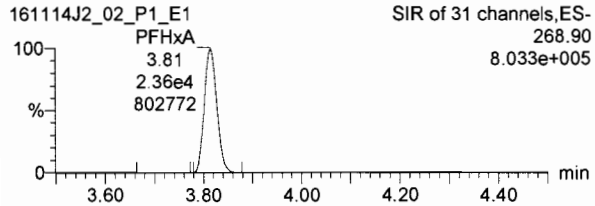
13C3-PFPeA



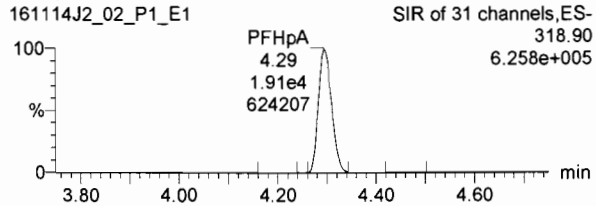
13C3-PFBS



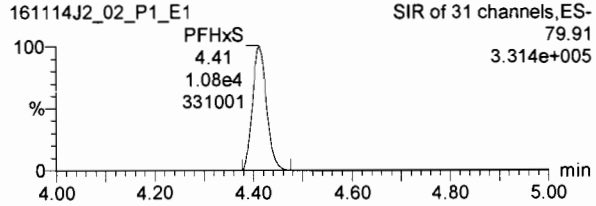
PFHxA



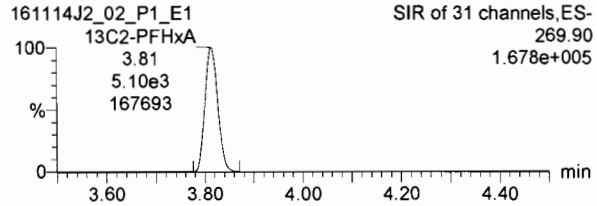
PFHpA



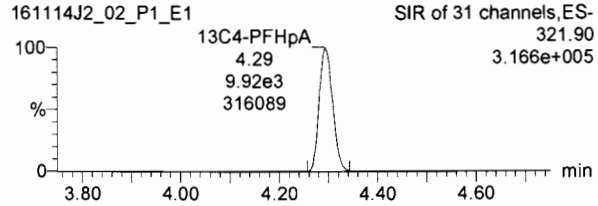
PFHxS



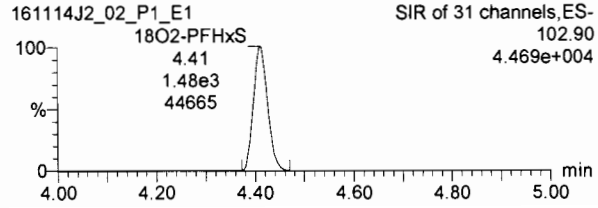
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

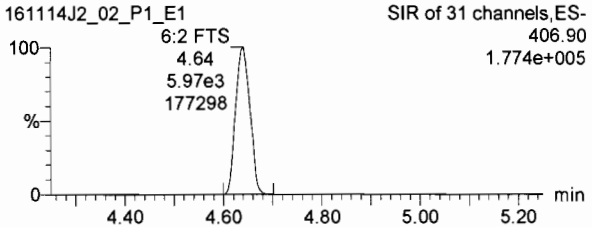


Dataset: U:\Q2.PRO\Results\161114J2\161114J2_02.qld

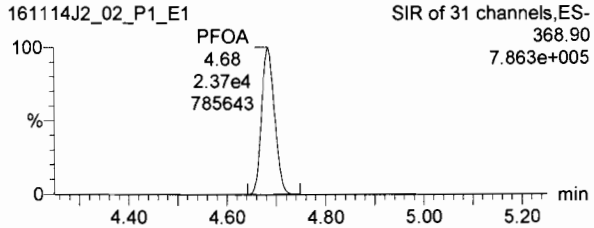
Last Altered: Tuesday, November 15, 2016 10:02:30 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:03:46 Pacific Standard Time

Name: 161114J2_02.wiff, Date: 14-Nov-2016, Time: 16:14:49, ID: ST161114J2-1 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

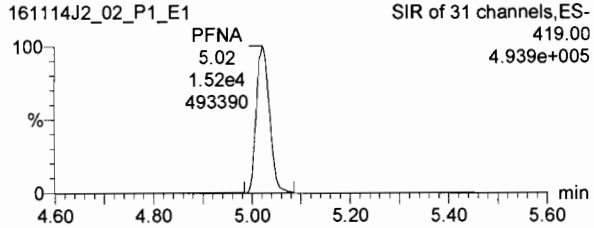
6:2 FTS



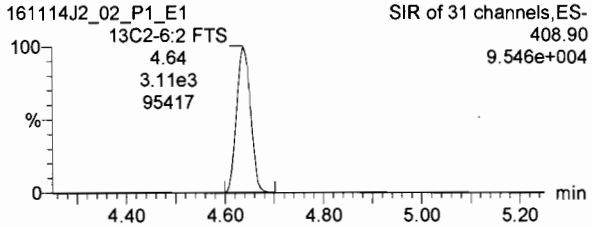
PFOA



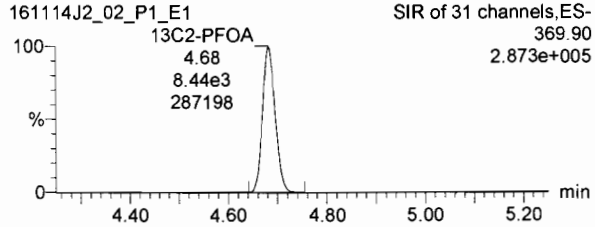
PFNA



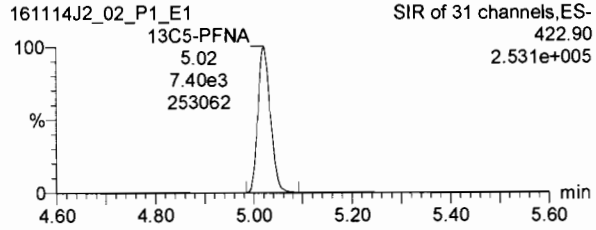
13C2-6:2 FTS



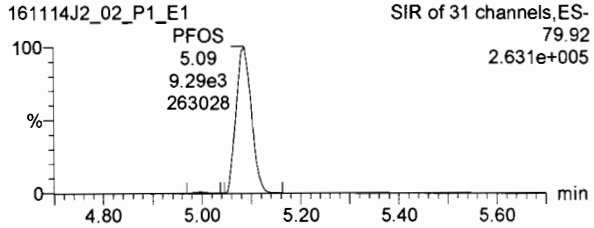
13C2-PFOA



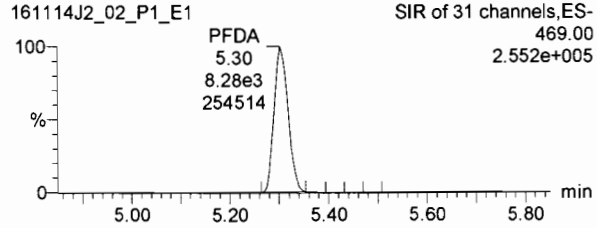
13C5-PFNA



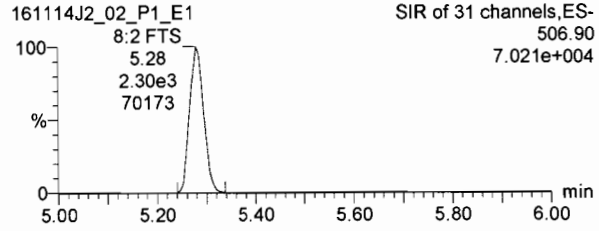
PFOS



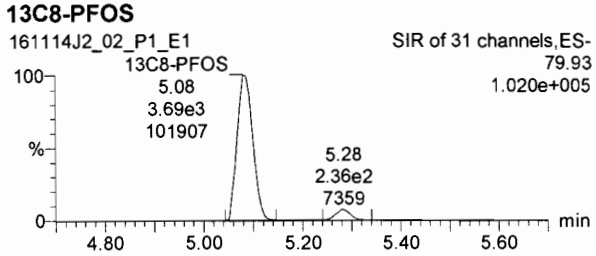
PFDA



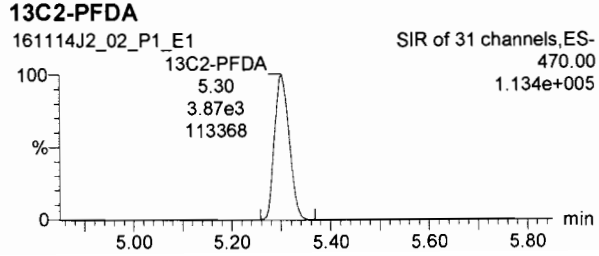
8:2 FTS



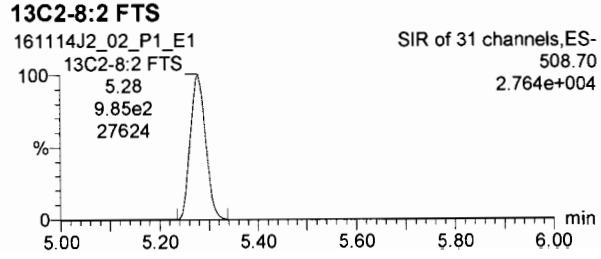
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



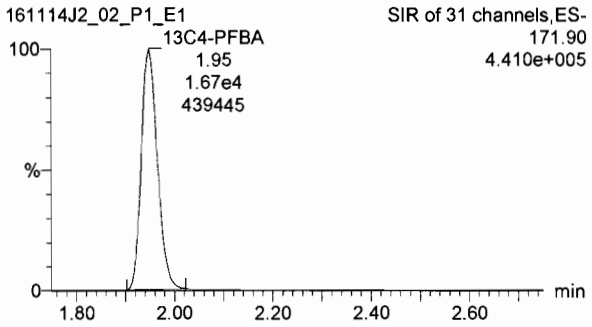
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_02.qld

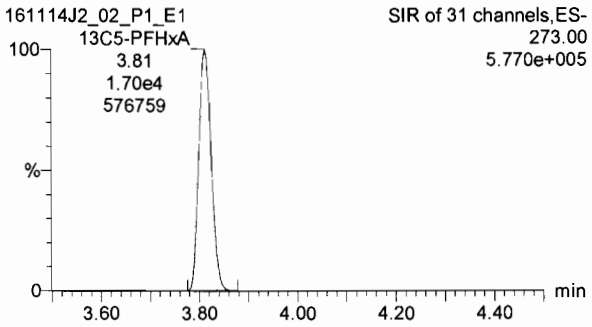
Last Altered: Tuesday, November 15, 2016 10:02:30 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:03:46 Pacific Standard Time

Name: 161114J2_02.wiff, Date: 14-Nov-2016, Time: 16:14:49, ID: ST161114J2-1 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

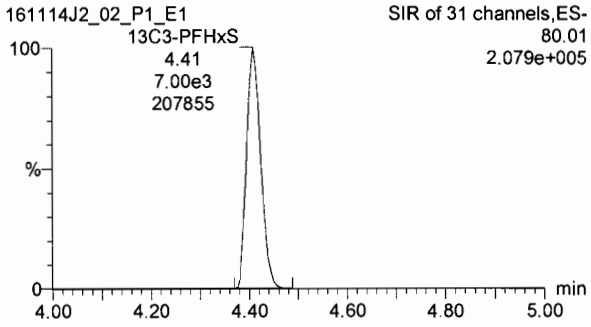
13C4-PFBA



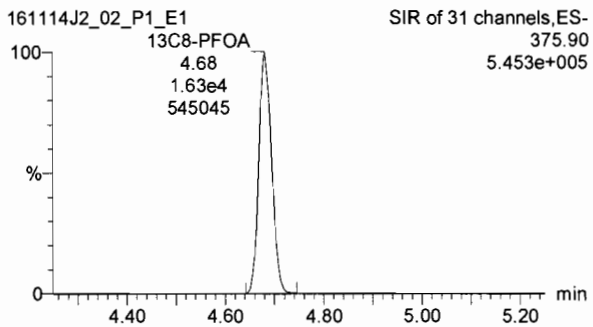
13C5-PFHxA



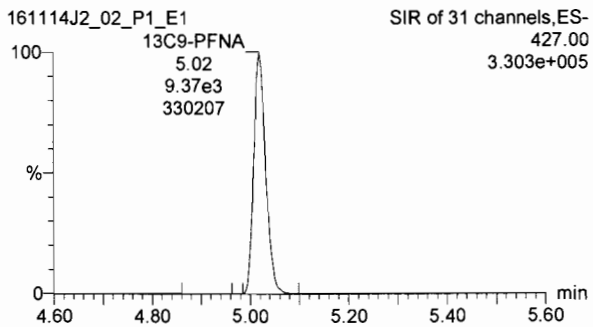
13C3-PFHxS



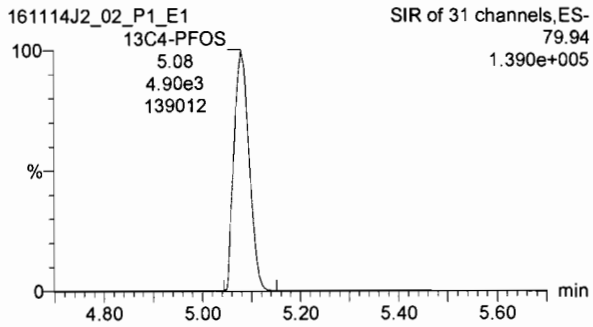
13C8-PFOA



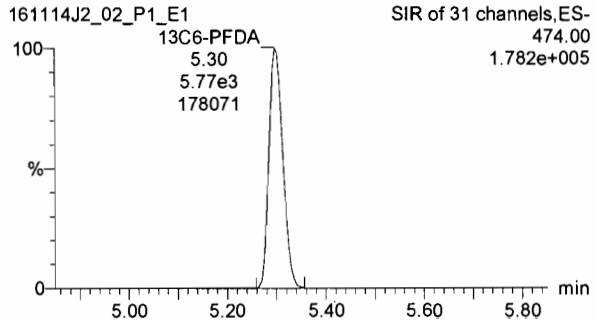
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_22.qld

Last Altered: Tuesday, November 15, 2016 10:04:03 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:05:39 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_22.wiff, Date: 14-Nov-2016, Time: 20:19:40, ID: ST161114J2-2 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.74e4	1.21e4		1.000	1.96	27.0	107.9	75-125
2	2	PFPeA	218.90	2.76e4	1.36e4		1.000	3.13	27.8	111.4	
3	3	PFBS	79.90	1.42e4	7.97e3		1.000	3.42	28.4	113.7	
4	4	PFHxA	268.90	2.40e4	5.06e3		1.000	3.81	27.8	111.1	
5	5	PFHpA	318.90	2.10e4	1.03e4		1.000	4.29	30.0	120.1	
6	6	PFHxS	79.91	1.09e4	1.57e3		1.000	4.41	26.7	106.7	
7	7	6:2 FTS	406.90	5.74e3	2.63e3		1.000	4.64	30.4	121.7	
8	8	PFOA	368.90	2.53e4	9.51e3		1.000	4.69	26.7	106.7	
9	9	PFNA	419.00	1.44e4	7.55e3		1.000	5.03	26.3	105.4	
10	10	PFOS	79.92	9.52e3	3.74e3		1.000	5.09	25.3	101.3	
11	11	PFDA	469.00	8.09e3	3.91e3		1.000	5.31	25.6	102.4	
12	12	8:2 FTS	506.90	2.24e3	1.03e3		1.000	5.29	26.6	106.5	
13	13	13C3-PFBA	172.00	1.21e4	1.69e4	0.894	1.000	1.96	10.1	80.5	60-150
14	14	13C3-PFPeA	221.90	1.36e4	1.76e4	0.945	1.000	3.13	10.2	81.7	
15	15	13C3-PFBS	79.95	7.97e3	1.76e4	0.531	1.000	3.42	10.7	85.4	
16	16	13C2-PFHxA	269.90	5.06e3	1.76e4	0.905	1.000	3.81	3.98	79.6	
17	17	13C4-PFHpA	321.90	1.03e4	1.76e4	0.770	1.000	4.29	9.55	76.4	
18	18	18O2-PFHxS	102.90	1.57e3	7.04e3	0.276	1.000	4.40	10.1	80.8	
19	19	13C2-6:2 FTS	408.90	2.63e3	1.77e4	0.219	1.000	4.64	8.48	67.9	40-150
20	20	13C2-PFOA	369.90	9.51e3	1.77e4	0.663	1.000	4.69	10.1	81.0	60-150
21	21	13C5-PFNA	422.90	7.55e3	1.01e4	1.019	1.000	5.02	9.19	73.5	50-150
22	22	13C8-PFOS	79.93	3.74e3	4.86e3	0.921	1.000	5.09	10.4	83.5	60-150
23	23	13C2-PFDA	470.00	3.91e3	5.36e3	0.887	1.000	5.31	10.3	82.2	
24	24	13C2-8:2 FTS	508.70	1.03e3	5.36e3	0.272	1.000	5.28	8.87	70.9	40-150
25	25	13C4-PFBA	171.90	1.69e4	1.69e4	1.000	1.000	1.95	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.76e4	1.76e4	1.000	1.000	3.81	12.5	100.0	
27	27	13C3-PFHxS	80.01	7.04e3	7.04e3	1.000	1.000	4.40	12.5	100.0	
28	28	13C8-PFOA	375.90	1.77e4	1.77e4	1.000	1.000	4.69	12.5	100.0	
29	29	13C4-PFOS	79.94	4.86e3	4.86e3	1.000	1.000	5.09	12.5	100.0	
30	30	13C9-PFNA	427.00	1.01e4	1.01e4	1.000	1.000	5.02	12.5	100.0	
31	31	13C6-PFDA	474.00	5.36e3	5.36e3	1.000	1.000	5.31	12.5	100.0	

PLW
11/15/16

Printing Time: 10:33:46
Printing Date: Tuesday, November 15, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161114J2_01	11/14/2016 16:02:37	IPA	IPA
2	161114J2_02	11/14/2016 16:14:49	ST161114J2-1 PFC C3.5 16K1120	PFC C3.5 16K1120A A
3	161114J2_03	11/14/2016 16:27:00	IPA	IPA
4	161114J2_04	11/14/2016 16:39:16	B6K0041-BS1	OPR
5	161114J2_05	11/14/2016 16:51:31	B6K0052-BS1	OPR
6	161114J2_06	11/14/2016 17:03:46	B6K0078-BS1	OPR
7	161114J2_07	11/14/2016 17:15:57	IPA	IPA
8	161114J2_08	11/14/2016 17:28:15	B6K0041-BLK1	Method Blank
9	161114J2_09	11/14/2016 17:40:28	B6K0052-BLK1	Method Blank
10	161114J2_10	11/14/2016 17:52:43	B6K0078-BLK1	Method Blank
11	161114J2_11	11/14/2016 18:04:55	1601385-01	WURTS_EB004JH-102716
12	161114J2_12	11/14/2016 18:17:10	1601385-02	WURTS_VAS15010-20-23
13	161114J2_13	11/14/2016 18:29:25	1601385-03	WURTS_VAS15010-20-23_FD
14	161114J2_14	11/14/2016 18:41:40	1601385-04	WURTS_VAS15010-30-33
15	161114J2_15	11/14/2016 18:53:54	1601385-05	WURTS_VAS15011-16-19
16	161114J2_16	11/14/2016 19:06:09	1601385-06	WURTS_VAS15011-26-29
17	161114J2_17	11/14/2016 19:18:23	1601385-07	WURTS_VAS15011-36-39
18	161114J2_18	11/14/2016 19:30:39	1601385-08	WURTS_VAS15011-6-9
19	161114J2_19	11/14/2016 19:42:53	1601385-09	WURTS_VAS15012-18-21
20	161114J2_20	11/14/2016 19:55:09	1601385-10	WURTS_VAS15012-28-31
21	161114J2_21	11/14/2016 20:07:26	IPA	IPA
22	161114J2_22	11/14/2016 20:19:40	ST161114J2-2 PFC C3.5 16K1120	PFC C3.5 16K1120A A
23	161114J2_23	11/14/2016 20:31:55	IPA	IPA
24	161114J2_24	11/14/2016 20:44:10	1601385-11	WURTS_VAS15012-38-41
25	161114J2_25	11/14/2016 20:56:23	1601385-12	WURTS_VAS15012-8-11
26	161114J2_26	11/14/2016 21:08:37	1601391-01	DUP06_161031
27	161114J2_27	11/14/2016 21:20:51	1601391-08	M14-09D_161031
28	161114J2_28	11/14/2016 21:33:02	1601391-09	M14-09S_161031
29	161114J2_29	11/14/2016 21:45:17	1601391-10	M14-14_161031
30	161114J2_30	11/14/2016 21:57:31	1601391-11	M14-22_161031
31	161114J2_31	11/14/2016 22:09:41	1601391-12	EB17_161031
32	161114J2_32	11/14/2016 22:21:58	1601391-19	M14-23_161031
33	161114J2_33	11/14/2016 22:34:13	1601391-20	M14-24_161031
34	161114J2_34	11/14/2016 22:46:28	IPA	IPA
35	161114J2_35	11/14/2016 22:58:43	ST161114J2-3 PFC C3.5 16K1120	PFC C3.5 16K1120A A
36	161114J2_36	11/14/2016 23:10:58	IPA	IPA
37	161114J2_37	11/14/2016 23:23:13	B6K0052-MS1	Matrix Spike
38	161114J2_38	11/14/2016 23:35:28	B6K0052-MSD1	Matrix Spike Dup
39	161114J2_39	11/14/2016 23:47:43	B6K0052-MS2	Matrix Spike
40	161114J2_40	11/14/2016 23:59:59	B6K0052-MSD2	Matrix Spike Dup
41	161114J2_41	11/15/2016 00:12:12	1601401-01	OW2C-MW19-1116
42	161114J2_42	11/15/2016 00:24:28	1601401-02	OW2E-MW19-1116
43	161114J2_43	11/15/2016 00:36:39	1601401-03	OW2B-MW41-1116
44	161114J2_44	11/15/2016 00:48:54	1601401-04	203MW-19-1116
45	161114J2_45	11/15/2016 01:01:08	1601401-05	JTC-MW-B-1116
46	161114J2_46	11/15/2016 01:13:22	1601401-06	OC-MW03-1116
47	161114J2_47	11/15/2016 01:25:33	1601401-07	OC-MW01-1116
48	161114J2_48	11/15/2016 01:37:49	1601401-08	OC-MW02-1116
49	161114J2_49	11/15/2016 01:50:04	1601401-09	OW26-MW1-1116

	Sample Name	Acquisition Date	Sample ID	Sample Comment
50	161114J2_50	11/15/2016 02:02:20	1601401-10	OW26-MW1P 1116
51	161114J2_51	11/15/2016 02:14:35	IPA	IPA
52	161114J2_52	11/15/2016 02:26:51	ST161114J2-4 PFC C3.5 16K1120	PFC C3.5 16K1120A A
53	161114J2_53	11/15/2016 02:39:05	IPA	IPA
54	161114J2_54	11/15/2016 02:51:20	1601401-11	OC-FB-110216
55	161114J2_55	11/15/2016 03:03:35	1601401-12	OC-EB-110216
56	161114J2_56	11/15/2016 03:15:50	1601401-13	MW-BG10-1116
57	161114J2_57	11/15/2016 03:28:06	B6K0064-MS1	Matrix Spike
58	161114J2_58	11/15/2016 03:40:23	B6K0064-MSD1	Matrix Spike Dup
59	161114J2_59	11/15/2016 03:52:40	1601405-01	CASTL-PUBAM21-110316
60	161114J2_60	11/15/2016 04:04:52	1601405-02	CASTL-PUBAM21-110316FD
61	161114J2_61	11/15/2016 04:17:07	1601405-03	CASTL-FB-VIS-110316
62	161114J2_62	11/15/2016 04:29:21	1601409-01	WURTS-EB006JH-103116
63	161114J2_63	11/15/2016 04:41:31	1601409-02	WURTS-EB007JH-110116
64	161114J2_64	11/15/2016 04:53:48	IPA	IPA
65	161114J2_65	11/15/2016 05:06:02	ST161114J2-5 PFC C3.5 16K1120	PFC C3.5 16K1120A A
66	161114J2_66	11/15/2016 05:18:17	IPA	IPA
67	161114J2_67	11/15/2016 05:30:28	B6K0064-BS1	OPR
68	161114J2_68	11/15/2016 05:42:45	IPA	IPA
69	161114J2_69	11/15/2016 05:55:01	B6K0064-BLK1	Method Blank
70	161114J2_70	11/15/2016 06:07:15	1601409-03	WURTS-VAS04006-22-25
71	161114J2_71	11/15/2016 06:19:30	1601409-04	WURTS-VAS04006-32-35
72	161114J2_72	11/15/2016 06:31:44	B6K0064-MS2	Matrix Spike
73	161114J2_73	11/15/2016 06:43:56	B6K0064-MSD2	Matrix Spike Dup
74	161114J2_74	11/15/2016 06:56:12	1601409-05	WURTS-VAS04007-20-23
75	161114J2_75	11/15/2016 07:08:27	1601409-06	WURTS-VAS04007-30-33
76	161114J2_76	11/15/2016 07:20:42	1601409-07	WURTS-VAS04007-40-43
77	161114J2_77	11/15/2016 07:32:58	1601409-08	WURTS-VAS04007-50-53
78	161114J2_78	11/15/2016 07:45:13	1601409-09	WURTS-VAS04008-24-27
79	161114J2_79	11/15/2016 07:57:28	1601409-10	WURTS-VAS04008-34-37
80	161114J2_80	11/15/2016 08:09:42	1601409-11	WURTS-VAS04008-44-47
81	161114J2_81	11/15/2016 08:21:53	1601409-12	WURTS-VAS04008-54-57
82	161114J2_82	11/15/2016 08:34:06	IPA	IPA
83	161114J2_83	11/15/2016 08:46:21	ST161114J2-6 PFC C3.5 16K1120	PFC C3.5 16K1120A A
84	161114J2_84	11/15/2016 08:58:36	IPA	IPA

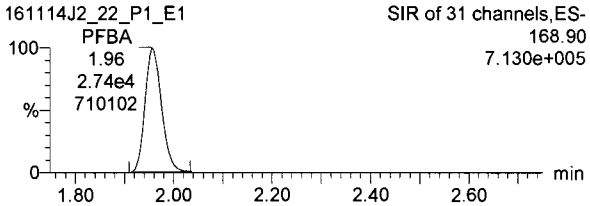
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_22.qld

Last Altered: Tuesday, November 15, 2016 10:04:03 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:05:01 Pacific Standard Time

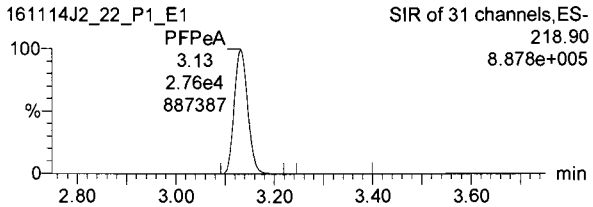
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_22.wiff, Date: 14-Nov-2016, Time: 20:19:40, ID: ST161114J2-2 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

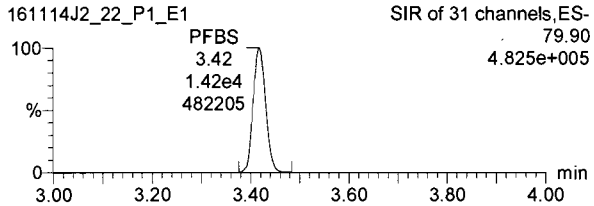
PFBA



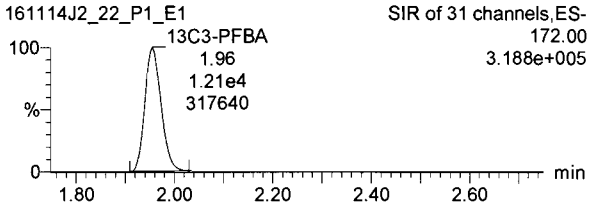
PFPeA



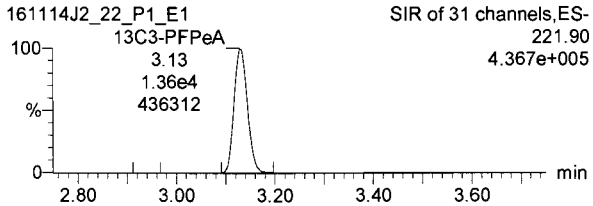
PFBS



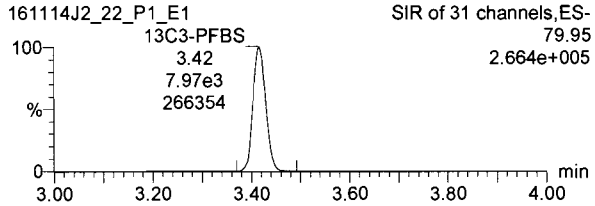
13C3-PFBA



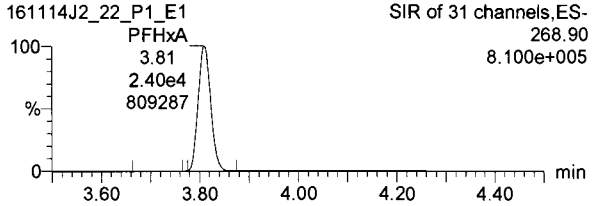
13C3-PFPeA



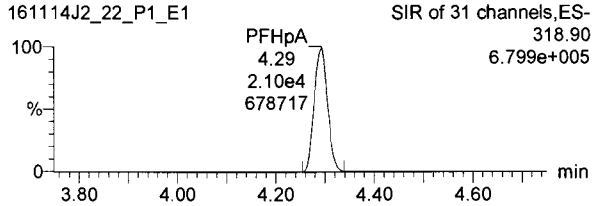
13C3-PFBS



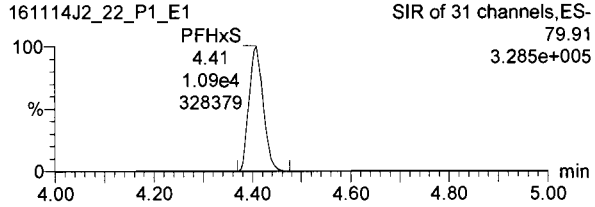
PFHxA



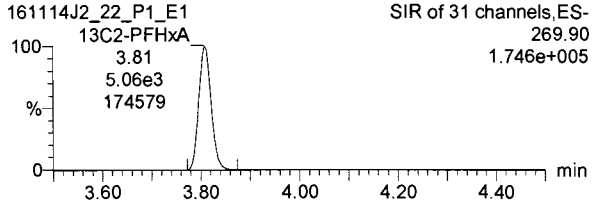
PFHpA



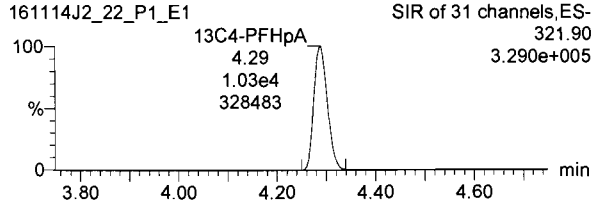
PFHxS



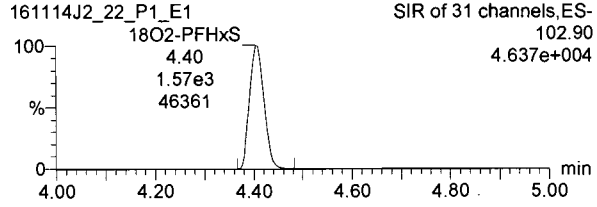
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

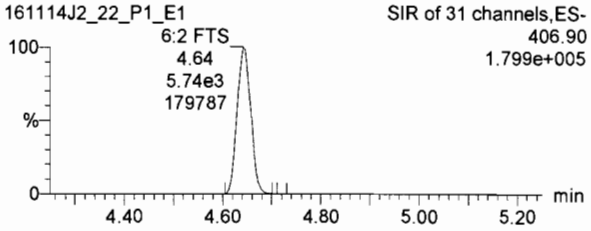


Dataset: U:\Q2.PRO\Results\161114J2\161114J2_22.qld

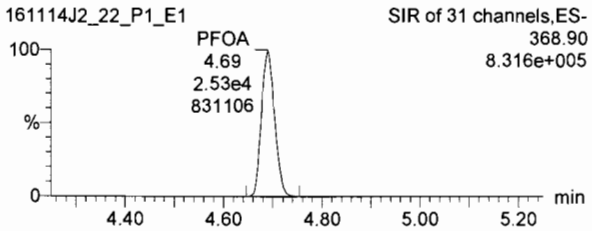
Last Altered: Tuesday, November 15, 2016 10:04:03 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:05:01 Pacific Standard Time

Name: 161114J2_22.wiff, Date: 14-Nov-2016, Time: 20:19:40, ID: ST161114J2-2 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

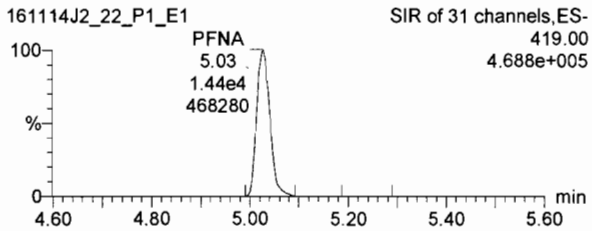
6:2 FTS



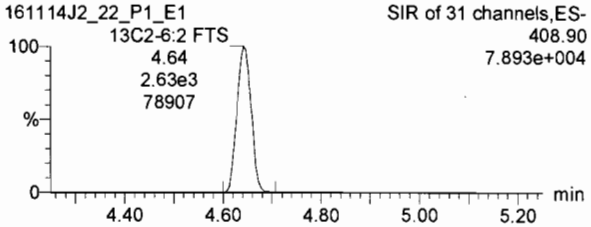
PFOA



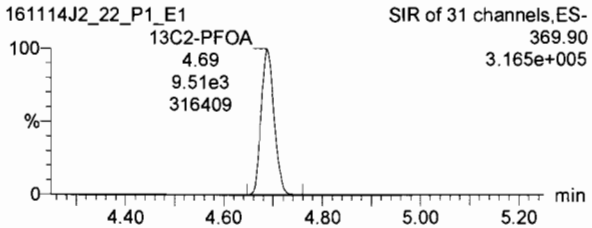
PFNA



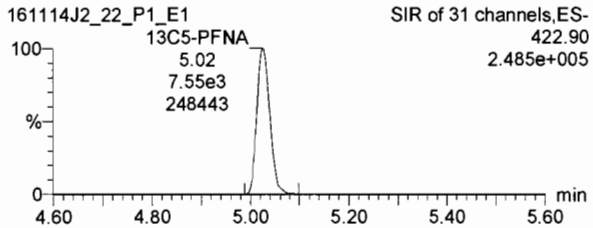
13C2-6:2 FTS



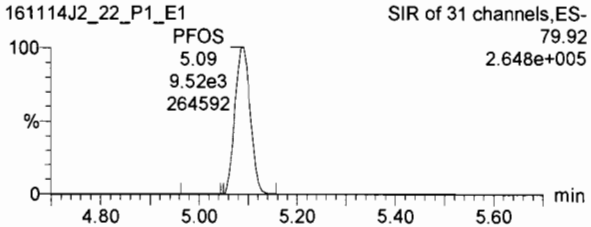
13C2-PFOA



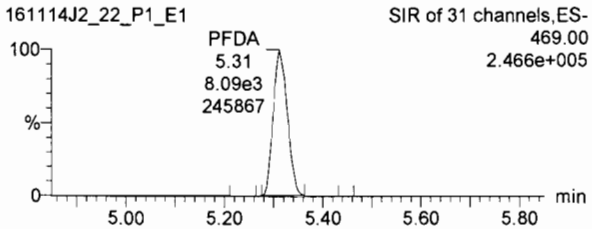
13C5-PFNA



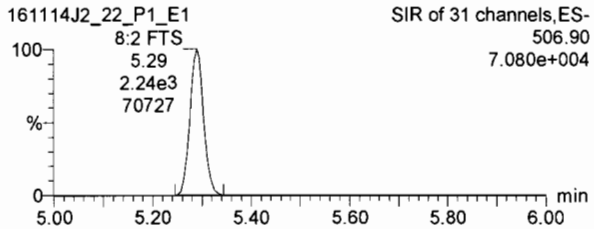
PFOS



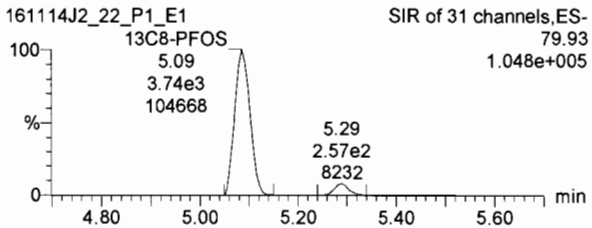
PFDA



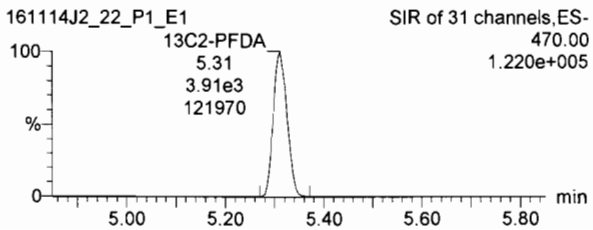
8:2 FTS



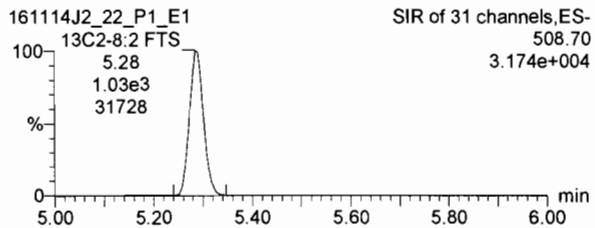
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

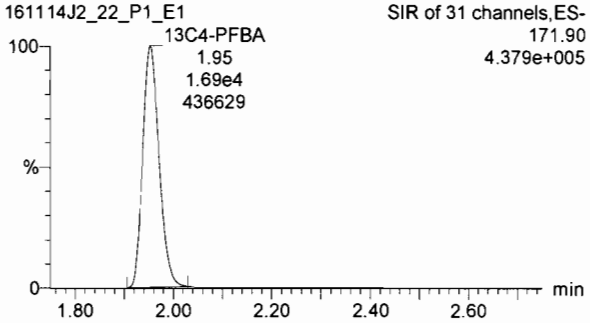


Dataset: U:\Q2.PRO\Results\161114J2\161114J2_22.qld

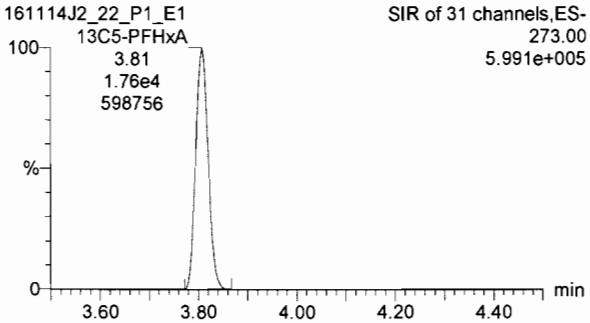
Last Altered: Tuesday, November 15, 2016 10:04:03 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:05:01 Pacific Standard Time

Name: 161114J2_22.wiff, Date: 14-Nov-2016, Time: 20:19:40, ID: ST161114J2-2 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

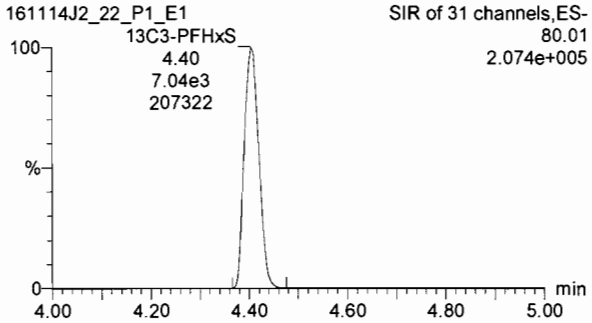
13C4-PFBA



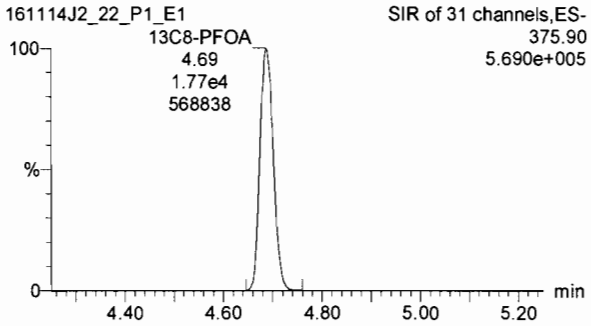
13C5-PFHxA



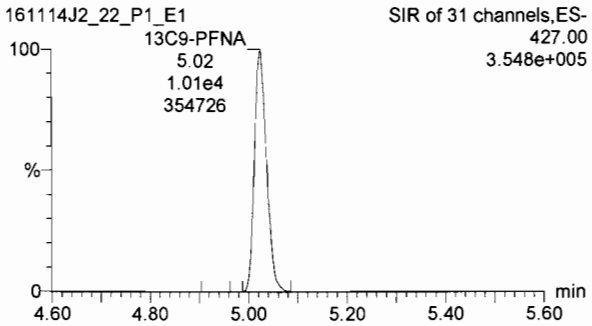
13C3-PFHxS



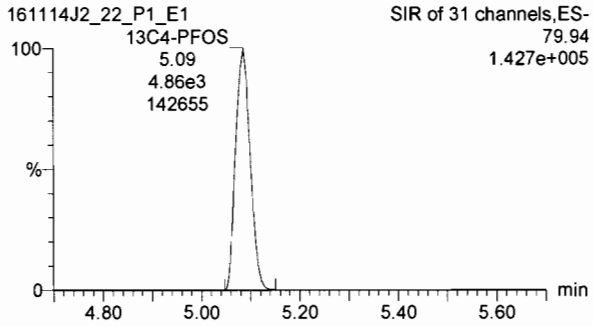
13C8-PFOA



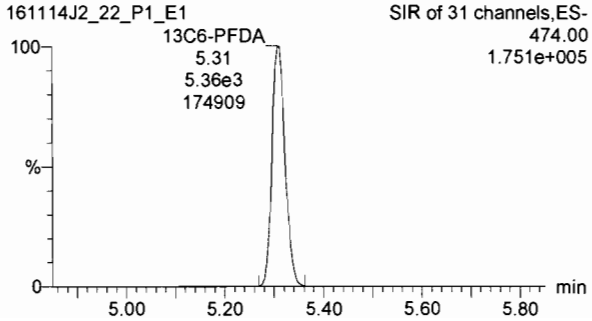
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_35.qld

Last Altered: Tuesday, November 15, 2016 10:05:52 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:06:55 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_35.wiff, Date: 14-Nov-2016, Time: 22:58:43, ID: ST161114J2-3 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.65e4	1.15e4		1.000	1.96	27.5	109.8	75 - 125
2	2	PFPeA	218.90	2.77e4	1.36e4		1.000	3.14	27.9	111.6	
3	3	PFBS	79.90	1.39e4	7.66e3		1.000	3.42	28.9	115.7	
4	4	PFHxA	268.90	2.36e4	4.97e3		1.000	3.81	27.8	111.2	
5	5	PFHpA	318.90	1.87e4	1.03e4		1.000	4.29	27.0	107.8	
6	6	PFHxS	79.91	1.08e4	1.43e3		1.000	4.41	28.9	115.6	
7	7	6:2 FTS	406.90	5.32e3	2.76e3		1.000	4.64	26.6	106.3	
8	8	PFOA	368.90	2.39e4	8.79e3		1.000	4.69	27.3	109.1	
9	9	PFNA	419.00	1.44e4	7.80e3		1.000	5.02	25.5	101.9	
10	10	PFOS	79.92	9.33e3	3.60e3		1.000	5.08	25.8	103.2	
11	11	PFDA	469.00	8.09e3	3.44e3		1.000	5.31	29.0	116.2	
12	12	8:2 FTS	506.90	2.03e3	9.55e2		1.000	5.29	26.0	104.0	
13	13	13C3-PFBA	172.00	1.15e4	1.62e4	0.894	1.000	1.96	9.93	79.4	60-150
14	14	13C3-PFPeA	221.90	1.36e4	1.63e4	0.945	1.000	3.13	11.1	88.6	
15	15	13C3-PFBS	79.95	7.66e3	1.63e4	0.531	1.000	3.42	11.1	88.7	
16	16	13C2-PFHxA	269.90	4.97e3	1.63e4	0.905	1.000	3.81	4.22	84.5	
17	17	13C4-PFHpA	321.90	1.03e4	1.63e4	0.770	1.000	4.29	10.3	82.1	
18	18	18O2-PFHxS	102.90	1.43e3	6.72e3	0.276	1.000	4.41	9.67	77.4	
19	19	13C2-6:2 FTS	408.90	2.76e3	1.65e4	0.219	1.000	4.64	9.55	76.4	40-150
20	20	13C2-PFOA	369.90	8.79e3	1.65e4	0.663	1.000	4.69	10.0	80.2	60-150
21	21	13C5-PFNA	422.90	7.80e3	9.60e3	1.019	1.000	5.02	9.96	79.7	50-150
22	22	13C8-PFOS	79.93	3.60e3	4.46e3	0.921	1.000	5.08	10.9	87.6	60-150
23	23	13C2-PFDA	470.00	3.44e3	5.02e3	0.887	1.000	5.31	9.67	77.3	
24	24	13C2-8:2 FTS	508.70	9.55e2	5.02e3	0.272	1.000	5.28	8.75	70.0	40-150
25	25	13C4-PFBA	171.90	1.62e4	1.62e4	1.000	1.000	1.96	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.63e4	1.63e4	1.000	1.000	3.80	12.5	100.0	
27	27	13C3-PFHxS	80.01	6.72e3	6.72e3	1.000	1.000	4.41	12.5	100.0	
28	28	13C8-PFOA	375.90	1.65e4	1.65e4	1.000	1.000	4.69	12.5	100.0	
29	29	13C4-PFOS	79.94	4.46e3	4.46e3	1.000	1.000	5.08	12.5	100.0	
30	30	13C9-PFNA	427.00	9.60e3	9.60e3	1.000	1.000	5.02	12.5	100.0	
31	31	13C6-PFDA	474.00	5.02e3	5.02e3	1.000	1.000	5.31	12.5	100.0	

PW
11/15/16

Printing Time: 10:33:46
Printing Date: Tuesday, November 15, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161114J2_01	11/14/2016 16:02:37	IPA	IPA
2	161114J2_02	11/14/2016 16:14:49	ST161114J2-1 PFC C3.5 16K1120	PFC C3.5 16K1120A A
3	161114J2_03	11/14/2016 16:27:00	IPA	IPA
4	161114J2_04	11/14/2016 16:39:16	B6K0041-BS1	OPR
5	161114J2_05	11/14/2016 16:51:31	B6K0052-BS1	OPR
6	161114J2_06	11/14/2016 17:03:46	B6K0078-BS1	OPR
7	161114J2_07	11/14/2016 17:15:57	IPA	IPA
8	161114J2_08	11/14/2016 17:28:15	B6K0041-BLK1	Method Blank
9	161114J2_09	11/14/2016 17:40:28	B6K0052-BLK1	Method Blank
10	161114J2_10	11/14/2016 17:52:43	B6K0078-BLK1	Method Blank
11	161114J2_11	11/14/2016 18:04:55	1601385-01	WURTS_EB004JH-102716
12	161114J2_12	11/14/2016 18:17:10	1601385-02	WURTS_VAS15010-20-23
13	161114J2_13	11/14/2016 18:29:25	1601385-03	WURTS_VAS15010-20-23_FD
14	161114J2_14	11/14/2016 18:41:40	1601385-04	WURTS_VAS15010-30-33
15	161114J2_15	11/14/2016 18:53:54	1601385-05	WURTS_VAS15011-16-19
16	161114J2_16	11/14/2016 19:06:09	1601385-06	WURTS_VAS15011-26-29
17	161114J2_17	11/14/2016 19:18:23	1601385-07	WURTS_VAS15011-36-39
18	161114J2_18	11/14/2016 19:30:39	1601385-08	WURTS_VAS15011-6-9
19	161114J2_19	11/14/2016 19:42:53	1601385-09	WURTS_VAS15012-18-21
20	161114J2_20	11/14/2016 19:55:09	1601385-10	WURTS_VAS15012-28-31
21	161114J2_21	11/14/2016 20:07:26	IPA	IPA
22	161114J2_22	11/14/2016 20:19:40	ST161114J2-2 PFC C3.5 16K1120	PFC C3.5 16K1120A A
23	161114J2_23	11/14/2016 20:31:55	IPA	IPA
24	161114J2_24	11/14/2016 20:44:10	1601385-11	WURTS_VAS15012-38-41
25	161114J2_25	11/14/2016 20:56:23	1601385-12	WURTS_VAS15012-8-11
26	161114J2_26	11/14/2016 21:08:37	1601391-01	DUP06_161031
27	161114J2_27	11/14/2016 21:20:51	1601391-08	M14-09D_161031
28	161114J2_28	11/14/2016 21:33:02	1601391-09	M14-09S_161031
29	161114J2_29	11/14/2016 21:45:17	1601391-10	M14-14_161031
30	161114J2_30	11/14/2016 21:57:31	1601391-11	M14-22_161031
31	161114J2_31	11/14/2016 22:09:41	1601391-12	EB17_161031
32	161114J2_32	11/14/2016 22:21:58	1601391-19	M14-23_161031
33	161114J2_33	11/14/2016 22:34:13	1601391-20	M14-24_161031
34	161114J2_34	11/14/2016 22:46:28	IPA	IPA
35	161114J2_35	11/14/2016 22:58:43	ST161114J2-3 PFC C3.5 16K1120	PFC C3.5 16K1120A A
36	161114J2_36	11/14/2016 23:10:58	IPA	IPA
37	161114J2_37	11/14/2016 23:23:13	B6K0052-MS1	Matrix Spike
38	161114J2_38	11/14/2016 23:35:28	B6K0052-MSD1	Matrix Spike Dup
39	161114J2_39	11/14/2016 23:47:43	B6K0052-MS2	Matrix Spike
40	161114J2_40	11/14/2016 23:59:59	B6K0052-MSD2	Matrix Spike Dup
41	161114J2_41	11/15/2016 00:12:12	1601401-01	OW2C-MW19-1116
42	161114J2_42	11/15/2016 00:24:28	1601401-02	OW2E-MW19-1116
43	161114J2_43	11/15/2016 00:36:39	1601401-03	OW2B-MW41-1116
44	161114J2_44	11/15/2016 00:48:54	1601401-04	203MW-19-1116
45	161114J2_45	11/15/2016 01:01:08	1601401-05	JTC-MW-B-1116
46	161114J2_46	11/15/2016 01:13:22	1601401-06	OC-MW03-1116
47	161114J2_47	11/15/2016 01:25:33	1601401-07	OC-MW01-1116
48	161114J2_48	11/15/2016 01:37:49	1601401-08	OC-MW02-1116
49	161114J2_49	11/15/2016 01:50:04	1601401-09	OW26-MW1-1116

	Sample Name	Acquisition Date	Sample ID	Sample Comment
50	161114J2_50	11/15/2016 02:02:20	1601401-10	OW26-MW1P 1116
51	161114J2_51	11/15/2016 02:14:35	IPA	IPA
52	161114J2_52	11/15/2016 02:26:51	ST161114J2-4 PFC C3.5 16K1120	PFC C3.5 16K1120A A
53	161114J2_53	11/15/2016 02:39:05	IPA	IPA
54	161114J2_54	11/15/2016 02:51:20	1601401-11	OC-FB-110216
55	161114J2_55	11/15/2016 03:03:35	1601401-12	OC-EB-110216
56	161114J2_56	11/15/2016 03:15:50	1601401-13	MW-BG10-1116
57	161114J2_57	11/15/2016 03:28:06	B6K0064-MS1	Matrix Spike
58	161114J2_58	11/15/2016 03:40:23	B6K0064-MSD1	Matrix Spike Dup
59	161114J2_59	11/15/2016 03:52:40	1601405-01	CASTL-PUBAM21-110316
60	161114J2_60	11/15/2016 04:04:52	1601405-02	CASTL-PUBAM21-110316FD
61	161114J2_61	11/15/2016 04:17:07	1601405-03	CASTL-FB-VIS-110316
62	161114J2_62	11/15/2016 04:29:21	1601409-01	WURTS-EB006JH-103116
63	161114J2_63	11/15/2016 04:41:31	1601409-02	WURTS-EB007JH-110116
64	161114J2_64	11/15/2016 04:53:48	IPA	IPA
65	161114J2_65	11/15/2016 05:06:02	ST161114J2-5 PFC C3.5 16K1120	PFC C3.5 16K1120A A
66	161114J2_66	11/15/2016 05:18:17	IPA	IPA
67	161114J2_67	11/15/2016 05:30:28	B6K0064-BS1	OPR
68	161114J2_68	11/15/2016 05:42:45	IPA	IPA
69	161114J2_69	11/15/2016 05:55:01	B6K0064-BLK1	Method Blank
70	161114J2_70	11/15/2016 06:07:15	1601409-03	WURTS-VAS04006-22-25
71	161114J2_71	11/15/2016 06:19:30	1601409-04	WURTS-VAS04006-32-35
72	161114J2_72	11/15/2016 06:31:44	B6K0064-MS2	Matrix Spike
73	161114J2_73	11/15/2016 06:43:56	B6K0064-MSD2	Matrix Spike Dup
74	161114J2_74	11/15/2016 06:56:12	1601409-05	WURTS-VAS04007-20-23
75	161114J2_75	11/15/2016 07:08:27	1601409-06	WURTS-VAS04007-30-33
76	161114J2_76	11/15/2016 07:20:42	1601409-07	WURTS-VAS04007-40-43
77	161114J2_77	11/15/2016 07:32:58	1601409-08	WURTS-VAS04007-50-53
78	161114J2_78	11/15/2016 07:45:13	1601409-09	WURTS-VAS04008-24-27
79	161114J2_79	11/15/2016 07:57:28	1601409-10	WURTS-VAS04008-34-37
80	161114J2_80	11/15/2016 08:09:42	1601409-11	WURTS-VAS04008-44-47
81	161114J2_81	11/15/2016 08:21:53	1601409-12	WURTS-VAS04008-54-57
82	161114J2_82	11/15/2016 08:34:06	IPA	IPA
83	161114J2_83	11/15/2016 08:46:21	ST161114J2-6 PFC C3.5 16K1120	PFC C3.5 16K1120A A
84	161114J2_84	11/15/2016 08:58:36	IPA	IPA

Vista Analytical Laboratory Q2

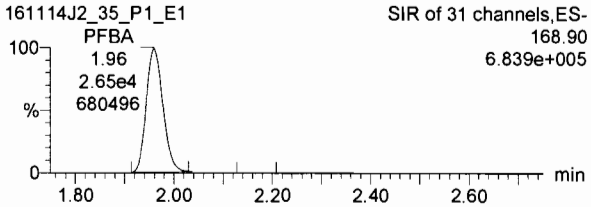
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_35.qld

Last Altered: Tuesday, November 15, 2016 10:05:52 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:09:54 Pacific Standard Time

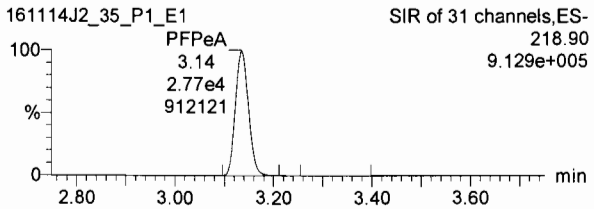
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_35.wiff, Date: 14-Nov-2016, Time: 22:58:43, ID: ST161114J2-3 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

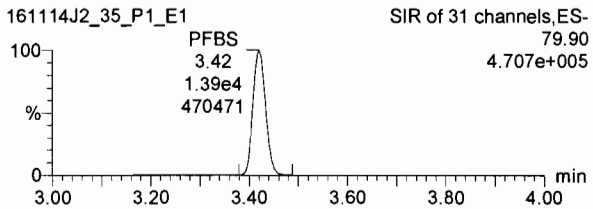
PFBA



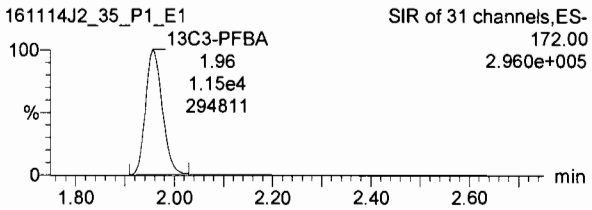
PFPeA



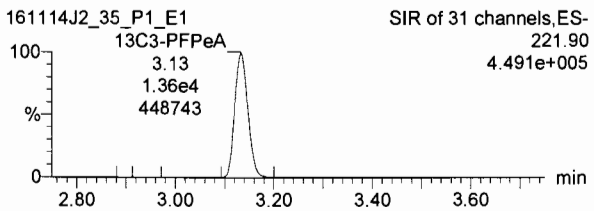
PFBS



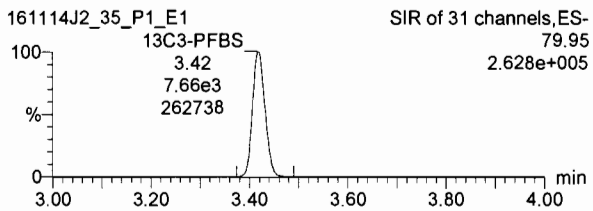
13C3-PFBA



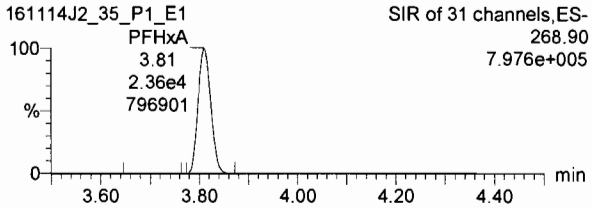
13C3-PFPeA



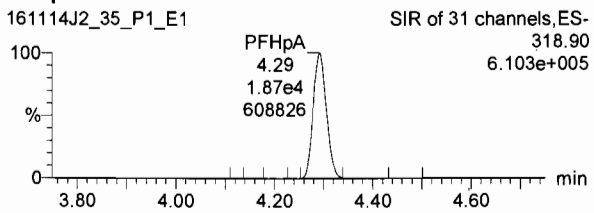
13C3-PFBS



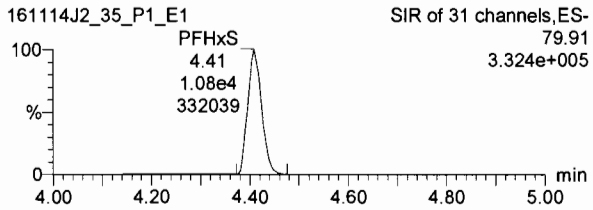
PFHxA



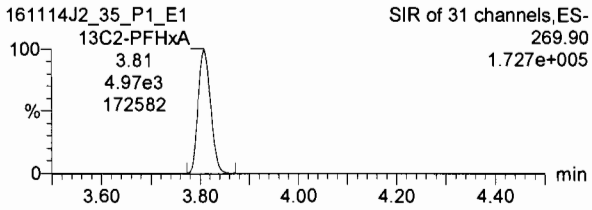
PFHpA



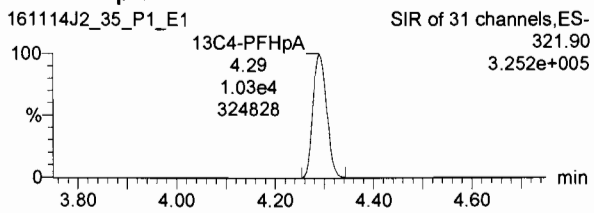
PFHxS



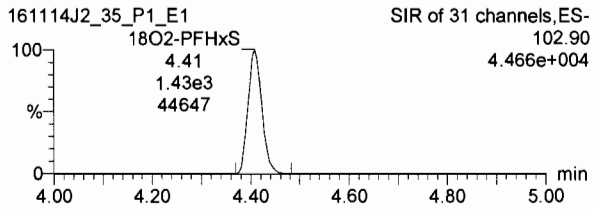
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

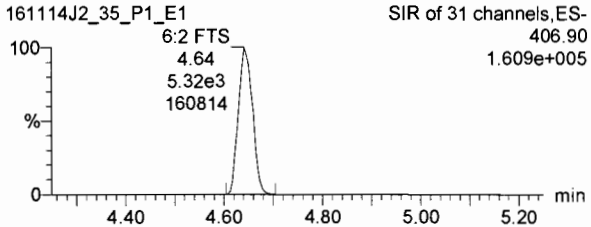


Dataset: U:\Q2.PRO\Results\161114J2\161114J2_35.qld

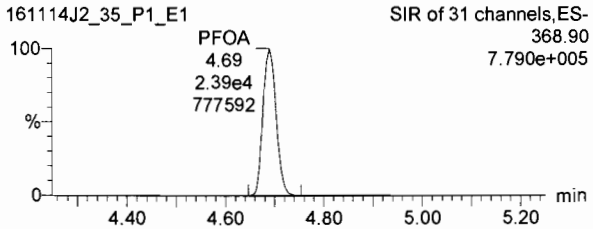
Last Altered: Tuesday, November 15, 2016 10:05:52 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:09:54 Pacific Standard Time

Name: 161114J2_35.wiff, Date: 14-Nov-2016, Time: 22:58:43, ID: ST161114J2-3 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

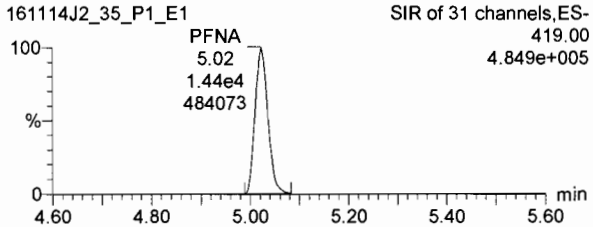
6:2 FTS



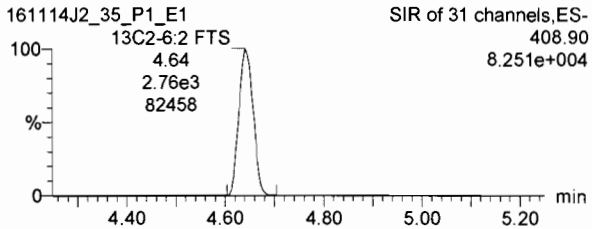
PFOA



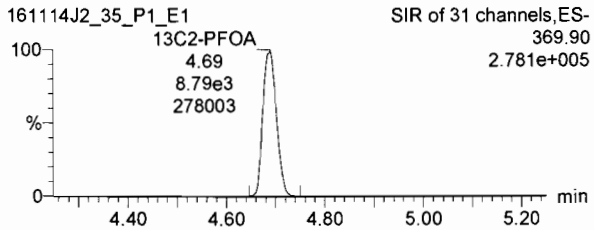
PFNA



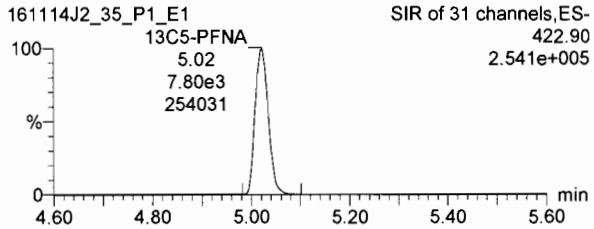
13C2-6:2 FTS



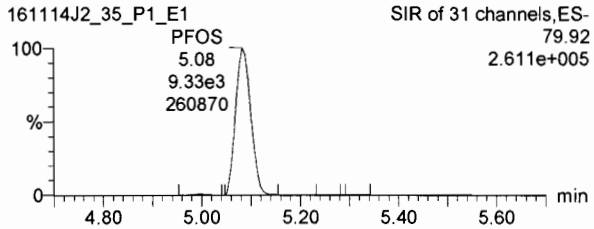
13C2-PFOA



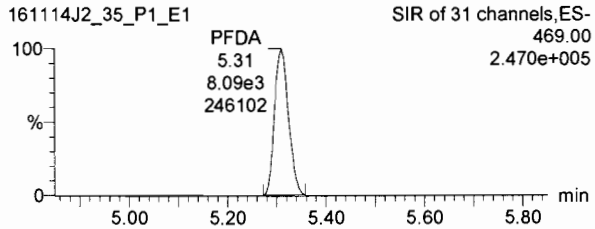
13C5-PFNA



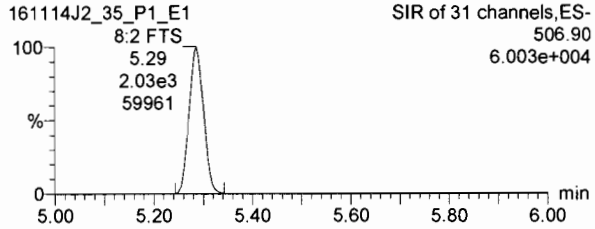
PFOS



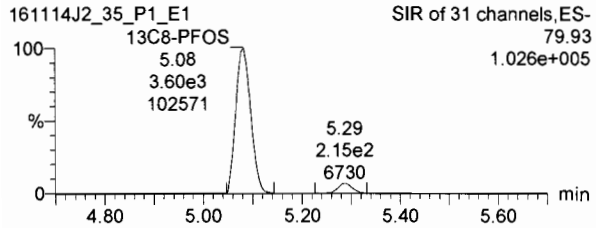
PFDA



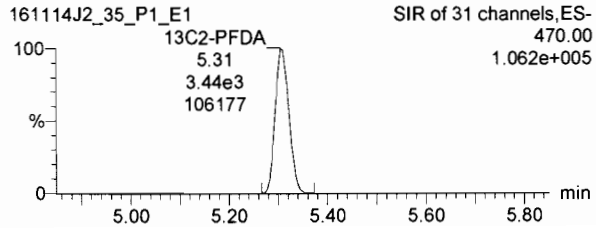
8:2 FTS



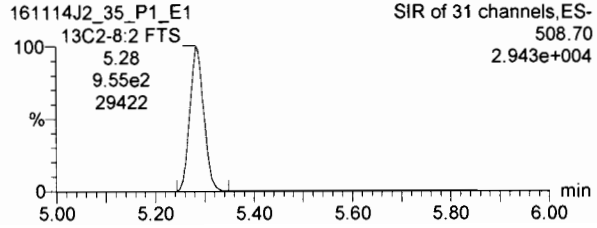
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



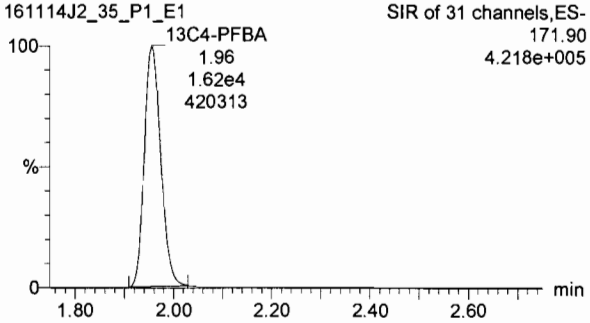
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_35.qld

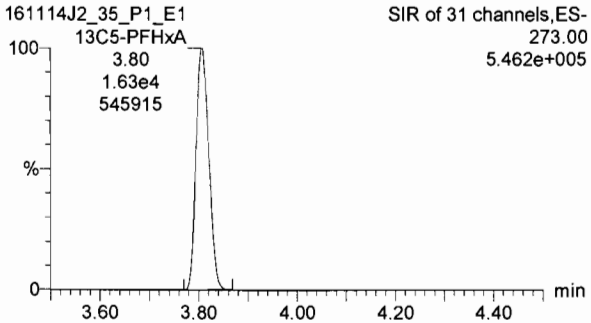
Last Altered: Tuesday, November 15, 2016 10:05:52 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:09:54 Pacific Standard Time

Name: 161114J2_35.wiff, Date: 14-Nov-2016, Time: 22:58:43, ID: ST161114J2-3 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

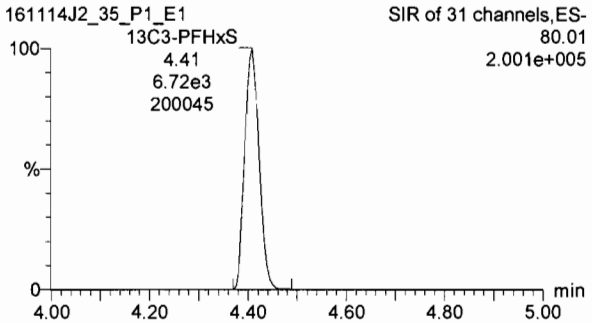
13C4-PFBA



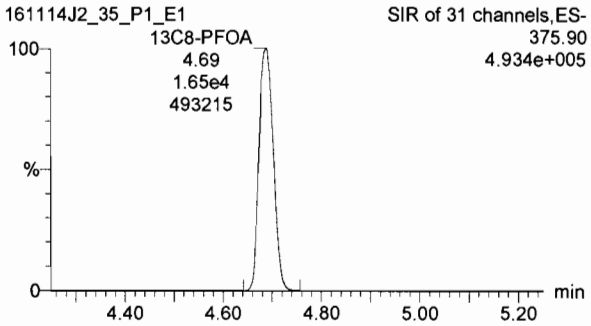
13C5-PFHxA



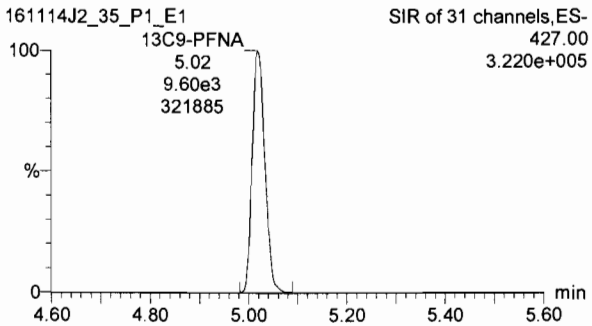
13C3-PFHxS



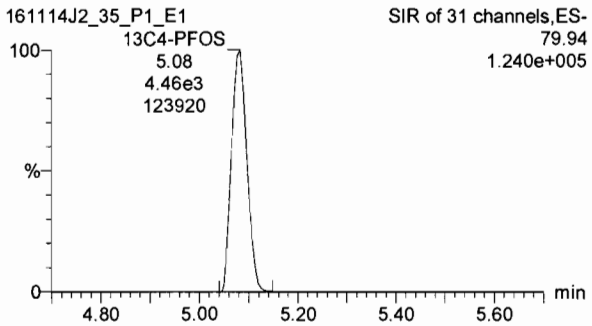
13C8-PFOA



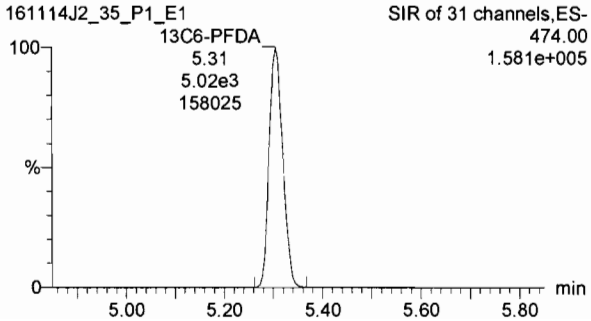
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_52.qld

Last Altered: Tuesday, November 15, 2016 10:18:36 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:20:06 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_52.wiff, Date: 15-Nov-2016, Time: 02:26:51, ID: ST161114J2-4 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.65e4	1.19e4		1.000	1.97	26.7	106.6	75-125
2	2	PFPeA	218.90	2.69e4	1.31e4		1.000	3.14	28.1	112.3	
3	3	PFBS	79.90	1.31e4	7.10e3		1.000	3.42	29.4	117.6	
4	4	PFHxA	268.90	2.29e4	4.78e3		1.000	3.81	28.1	112.3	
5	5	PFHpA	318.90	1.89e4	9.85e3		1.000	4.29	28.4	113.7	
6	6	PFHxS	79.91	1.04e4	1.49e3		1.000	4.41	27.0	108.0	
7	7	6:2 FTS	406.90	5.10e3	2.53e3		1.000	4.64	27.9	111.5	
8	8	PFOA	368.90	2.22e4	9.00e3		1.000	4.68	24.7	98.6	
9	9	PFNA	419.00	1.35e4	7.52e3		1.000	5.01	24.8	99.1	
10	10	PFOS	79.92	9.51e3	3.41e3		1.000	5.07	27.8	111.2	
11	11	PFDA	469.00	6.80e3	3.44e3		1.000	5.29	24.5	97.9	
12	12	8:2 FTS	506.90	1.63e3	8.04e2		1.000	5.27	24.8	99.2	
13	13	13C3-PFBA	172.00	1.19e4	1.62e4	0.894	1.000	1.97	10.2	81.9	60-150
14	14	13C3-PFPeA	221.90	1.31e4	1.59e4	0.945	1.000	3.14	10.9	87.1	
15	15	13C3-PFBS	79.95	7.10e3	1.59e4	0.531	1.000	3.42	10.5	83.9	
16	16	13C2-PFHxA	269.90	4.78e3	1.59e4	0.905	1.000	3.81	4.14	82.9	
17	17	13C4-PFHpA	321.90	9.85e3	1.59e4	0.770	1.000	4.29	10.0	80.3	
18	18	18O2-PFHxS	102.90	1.49e3	6.87e3	0.276	1.000	4.40	9.81	78.5	
19	19	13C2-6:2 FTS	408.90	2.53e3	1.63e4	0.219	1.000	4.64	8.87	71.0	40-150
20	20	13C2-PFOA	369.90	9.00e3	1.63e4	0.663	1.000	4.68	10.4	83.2	60-150
21	21	13C5-PFNA	422.90	7.52e3	9.39e3	1.019	1.000	5.01	9.82	78.6	50-150
22	22	13C8-PFOS	79.93	3.41e3	4.19e3	0.921	1.000	5.07	11.0	88.2	60-150
23	23	13C2-PFDA	470.00	3.44e3	4.72e3	0.887	1.000	5.29	10.3	82.2	
24	24	13C2-8:2 FTS	508.70	8.04e2	4.72e3	0.272	1.000	5.27	7.84	62.7	40-150
25	25	13C4-PFBA	171.90	1.62e4	1.62e4	1.000	1.000	1.97	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.59e4	1.59e4	1.000	1.000	3.81	12.5	100.0	
27	27	13C3-PFHxS	80.01	6.87e3	6.87e3	1.000	1.000	4.40	12.5	100.0	
28	28	13C8-PFOA	375.90	1.63e4	1.63e4	1.000	1.000	4.68	12.5	100.0	
29	29	13C4-PFOS	79.94	4.19e3	4.19e3	1.000	1.000	5.07	12.5	100.0	
30	30	13C9-PFNA	427.00	9.39e3	9.39e3	1.000	1.000	5.00	12.5	100.0	
31	31	13C6-PFDA	474.00	4.72e3	4.72e3	1.000	1.000	5.29	12.5	100.0	

PW
11/15/16

Printing Time: 10:33:46
Printing Date: Tuesday, November 15, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161114J2_01	11/14/2016 16:02:37	IPA	IPA
2	161114J2_02	11/14/2016 16:14:49	ST161114J2-1 PFC C3.5 16K1120	PFC C3.5 16K1120A A
3	161114J2_03	11/14/2016 16:27:00	IPA	IPA
4	161114J2_04	11/14/2016 16:39:16	B6K0041-BS1	OPR
5	161114J2_05	11/14/2016 16:51:31	B6K0052-BS1	OPR
6	161114J2_06	11/14/2016 17:03:46	B6K0078-BS1	OPR
7	161114J2_07	11/14/2016 17:15:57	IPA	IPA
8	161114J2_08	11/14/2016 17:28:15	B6K0041-BLK1	Method Blank
9	161114J2_09	11/14/2016 17:40:28	B6K0052-BLK1	Method Blank
10	161114J2_10	11/14/2016 17:52:43	B6K0078-BLK1	Method Blank
11	161114J2_11	11/14/2016 18:04:55	1601385-01	WURTS_EB004JH-102716
12	161114J2_12	11/14/2016 18:17:10	1601385-02	WURTS_VAS15010-20-23
13	161114J2_13	11/14/2016 18:29:25	1601385-03	WURTS_VAS15010-20-23_FD
14	161114J2_14	11/14/2016 18:41:40	1601385-04	WURTS_VAS15010-30-33
15	161114J2_15	11/14/2016 18:53:54	1601385-05	WURTS_VAS15011-16-19
16	161114J2_16	11/14/2016 19:06:09	1601385-06	WURTS_VAS15011-26-29
17	161114J2_17	11/14/2016 19:18:23	1601385-07	WURTS_VAS15011-36-39
18	161114J2_18	11/14/2016 19:30:39	1601385-08	WURTS_VAS15011-6-9
19	161114J2_19	11/14/2016 19:42:53	1601385-09	WURTS_VAS15012-18-21
20	161114J2_20	11/14/2016 19:55:09	1601385-10	WURTS_VAS15012-28-31
21	161114J2_21	11/14/2016 20:07:26	IPA	IPA
22	161114J2_22	11/14/2016 20:19:40	ST161114J2-2 PFC C3.5 16K1120	PFC C3.5 16K1120A A
23	161114J2_23	11/14/2016 20:31:55	IPA	IPA
24	161114J2_24	11/14/2016 20:44:10	1601385-11	WURTS_VAS15012-38-41
25	161114J2_25	11/14/2016 20:56:23	1601385-12	WURTS_VAS15012-8-11
26	161114J2_26	11/14/2016 21:08:37	1601391-01	DUP06_161031
27	161114J2_27	11/14/2016 21:20:51	1601391-08	M14-09D_161031
28	161114J2_28	11/14/2016 21:33:02	1601391-09	M14-09S_161031
29	161114J2_29	11/14/2016 21:45:17	1601391-10	M14-14_161031
30	161114J2_30	11/14/2016 21:57:31	1601391-11	M14-22_161031
31	161114J2_31	11/14/2016 22:09:41	1601391-12	EB17_161031
32	161114J2_32	11/14/2016 22:21:58	1601391-19	M14-23_161031
33	161114J2_33	11/14/2016 22:34:13	1601391-20	M14-24_161031
34	161114J2_34	11/14/2016 22:46:28	IPA	IPA
35	161114J2_35	11/14/2016 22:58:43	ST161114J2-3 PFC C3.5 16K1120	PFC C3.5 16K1120A A
36	161114J2_36	11/14/2016 23:10:58	IPA	IPA
37	161114J2_37	11/14/2016 23:23:13	B6K0052-MS1	Matrix Spike
38	161114J2_38	11/14/2016 23:35:28	B6K0052-MSD1	Matrix Spike Dup
39	161114J2_39	11/14/2016 23:47:43	B6K0052-MS2	Matrix Spike
40	161114J2_40	11/14/2016 23:59:59	B6K0052-MSD2	Matrix Spike Dup
41	161114J2_41	11/15/2016 00:12:12	1601401-01	OW2C-MW19-1116
42	161114J2_42	11/15/2016 00:24:28	1601401-02	OW2E-MW19-1116
43	161114J2_43	11/15/2016 00:36:39	1601401-03	OW2B-MW41-1116
44	161114J2_44	11/15/2016 00:48:54	1601401-04	203MW-19-1116
45	161114J2_45	11/15/2016 01:01:08	1601401-05	JTC-MW-B-1116
46	161114J2_46	11/15/2016 01:13:22	1601401-06	OC-MW03-1116
47	161114J2_47	11/15/2016 01:25:33	1601401-07	OC-MW01-1116
48	161114J2_48	11/15/2016 01:37:49	1601401-08	OC-MW02-1116
49	161114J2_49	11/15/2016 01:50:04	1601401-09	OW26-MW1-1116

	Sample Name	Acquisition Date	Sample ID	Sample Comment
50	161114J2_50	11/15/2016 02:02:20	1601401-10	OW26-MW1P 1116
51	161114J2_51	11/15/2016 02:14:35	IPA	IPA
52	161114J2_52	11/15/2016 02:26:51	ST161114J2-4 PFC C3.5 16K1120	PFC C3.5 16K1120A A
53	161114J2_53	11/15/2016 02:39:05	IPA	IPA
54	161114J2_54	11/15/2016 02:51:20	1601401-11	OC-FB-110216
55	161114J2_55	11/15/2016 03:03:35	1601401-12	OC-EB-110216
56	161114J2_56	11/15/2016 03:15:50	1601401-13	MW-BG10-1116
57	161114J2_57	11/15/2016 03:28:06	B6K0064-MS1	Matrix Spike
58	161114J2_58	11/15/2016 03:40:23	B6K0064-MSD1	Matrix Spike Dup
59	161114J2_59	11/15/2016 03:52:40	1601405-01	CASTL-PUBAM21-110316
60	161114J2_60	11/15/2016 04:04:52	1601405-02	CASTL-PUBAM21-110316FD
61	161114J2_61	11/15/2016 04:17:07	1601405-03	CASTL-FB-VIS-110316
62	161114J2_62	11/15/2016 04:29:21	1601409-01	WURTS-EB006JH-103116
63	161114J2_63	11/15/2016 04:41:31	1601409-02	WURTS-EB007JH-110116
64	161114J2_64	11/15/2016 04:53:48	IPA	IPA
65	161114J2_65	11/15/2016 05:06:02	ST161114J2-5 PFC C3.5 16K1120	PFC C3.5 16K1120A A
66	161114J2_66	11/15/2016 05:18:17	IPA	IPA
67	161114J2_67	11/15/2016 05:30:28	B6K0064-BS1	OPR
68	161114J2_68	11/15/2016 05:42:45	IPA	IPA
69	161114J2_69	11/15/2016 05:55:01	B6K0064-BLK1	Method Blank
70	161114J2_70	11/15/2016 06:07:15	1601409-03	WURTS-VAS04006-22-25
71	161114J2_71	11/15/2016 06:19:30	1601409-04	WURTS-VAS04006-32-35
72	161114J2_72	11/15/2016 06:31:44	B6K0064-MS2	Matrix Spike
73	161114J2_73	11/15/2016 06:43:56	B6K0064-MSD2	Matrix Spike Dup
74	161114J2_74	11/15/2016 06:56:12	1601409-05	WURTS-VAS04007-20-23
75	161114J2_75	11/15/2016 07:08:27	1601409-06	WURTS-VAS04007-30-33
76	161114J2_76	11/15/2016 07:20:42	1601409-07	WURTS-VAS04007-40-43
77	161114J2_77	11/15/2016 07:32:58	1601409-08	WURTS-VAS04007-50-53
78	161114J2_78	11/15/2016 07:45:13	1601409-09	WURTS-VAS04008-24-27
79	161114J2_79	11/15/2016 07:57:28	1601409-10	WURTS-VAS04008-34-37
80	161114J2_80	11/15/2016 08:09:42	1601409-11	WURTS-VAS04008-44-47
81	161114J2_81	11/15/2016 08:21:53	1601409-12	WURTS-VAS04008-54-57
82	161114J2_82	11/15/2016 08:34:06	IPA	IPA
83	161114J2_83	11/15/2016 08:46:21	ST161114J2-6 PFC C3.5 16K1120	PFC C3.5 16K1120A A
84	161114J2_84	11/15/2016 08:58:36	IPA	IPA

Vista Analytical Laboratory Q2

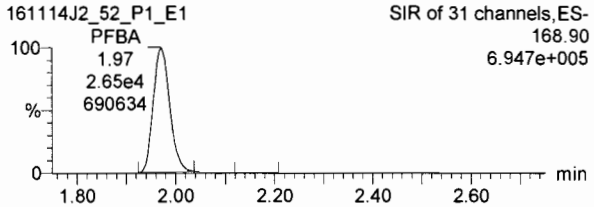
Dataset: U:\Q2.PRO\Results\161114J2\161114J2_52.qld

Last Altered: Tuesday, November 15, 2016 10:18:36 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:20:17 Pacific Standard Time

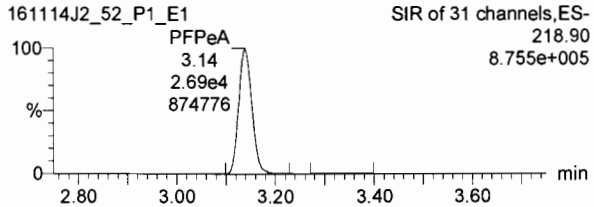
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161114J2_52.wiff, Date: 15-Nov-2016, Time: 02:26:51, ID: ST161114J2-4 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

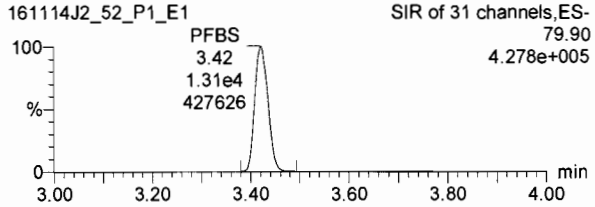
PFBA



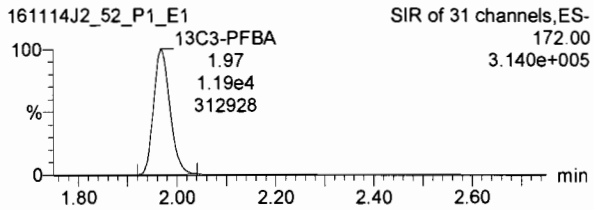
PFPeA



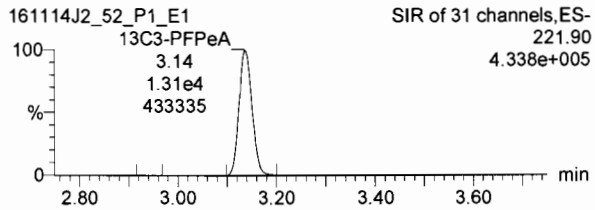
PFBS



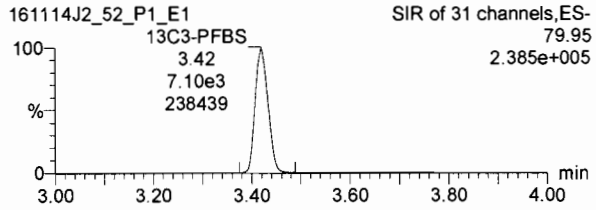
13C3-PFBA



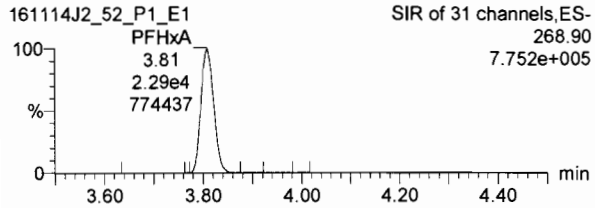
13C3-PFPeA



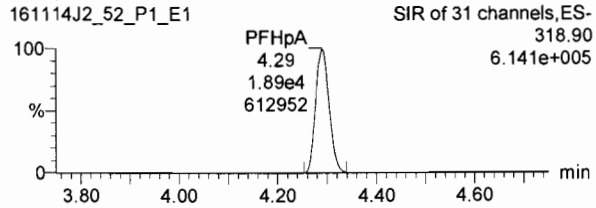
13C3-PFBS



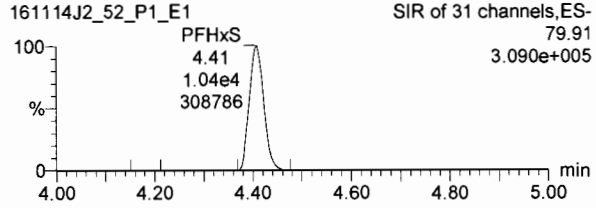
PFHxA



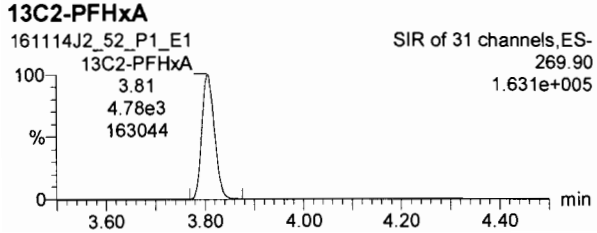
PFHpA



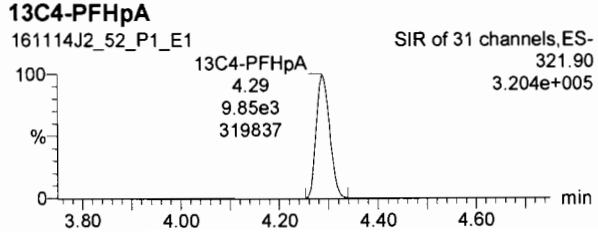
PFHxS



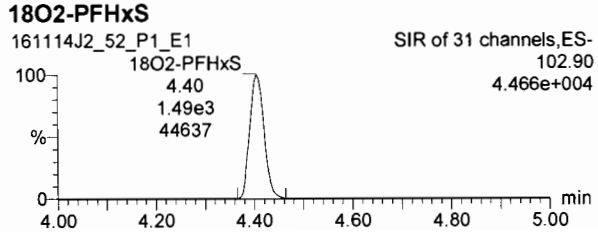
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

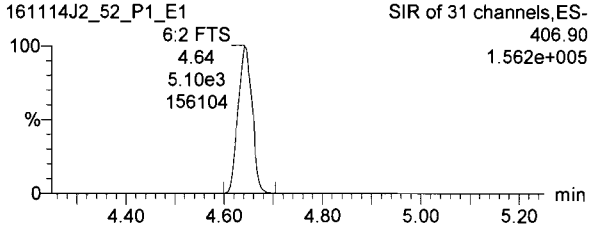


Dataset: U:\Q2.PRO\Results\161114J2\161114J2_52.qld

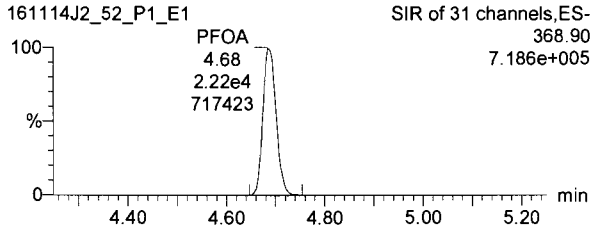
Last Altered: Tuesday, November 15, 2016 10:18:36 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:20:17 Pacific Standard Time

Name: 161114J2_52.wiff, Date: 15-Nov-2016, Time: 02:26:51, ID: ST161114J2-4 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

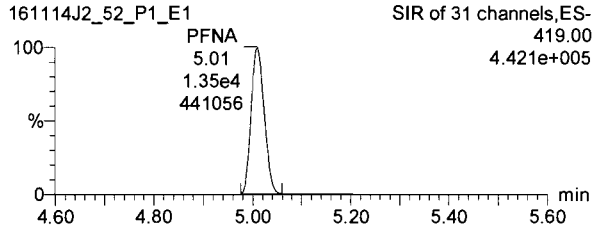
6:2 FTS



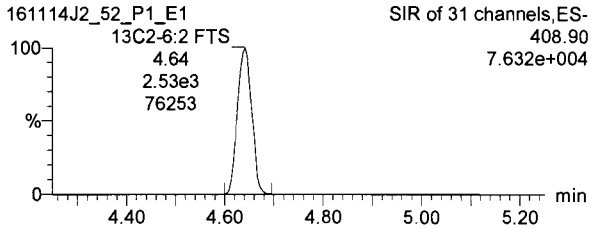
PFOA



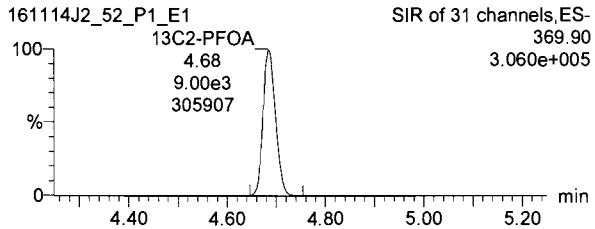
PFNA



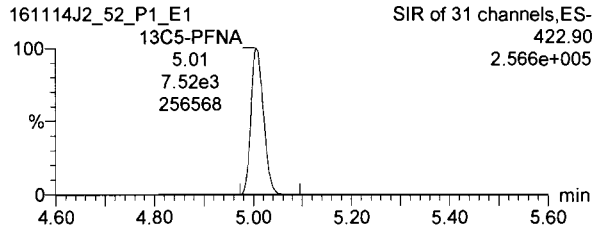
13C2-6:2 FTS



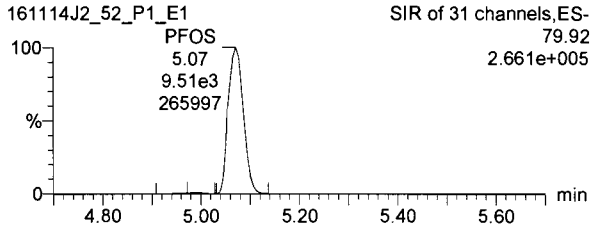
13C2-PFOA



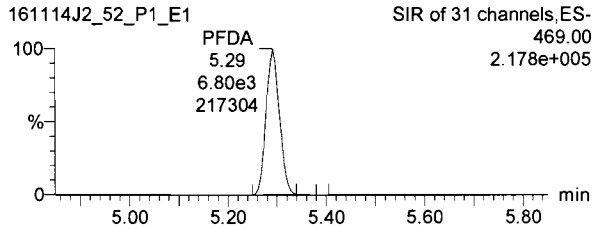
13C5-PFNA



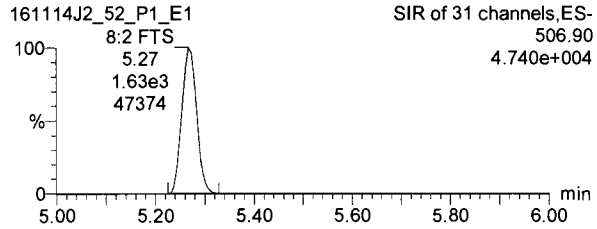
PFOS



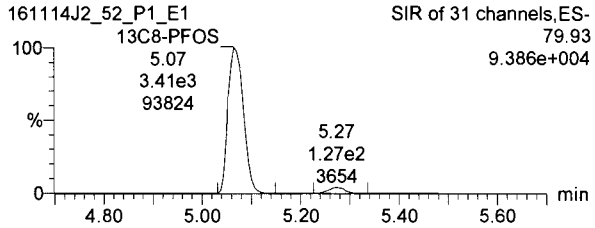
PFDA



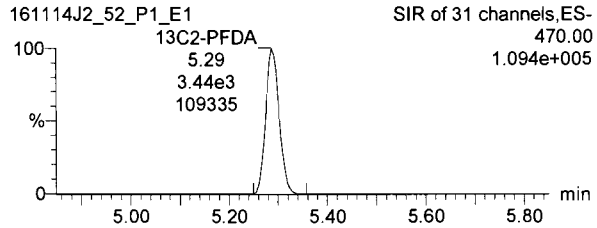
8:2 FTS



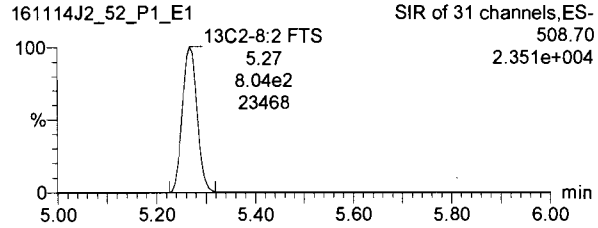
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



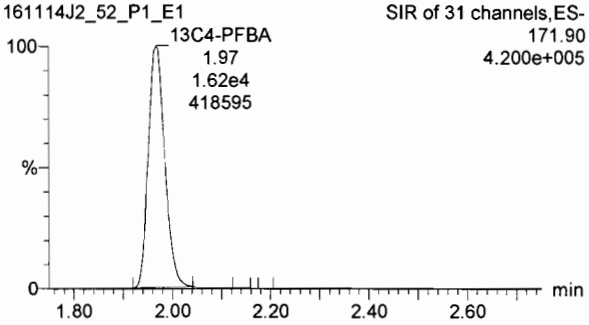
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161114J2\161114J2_52.qld

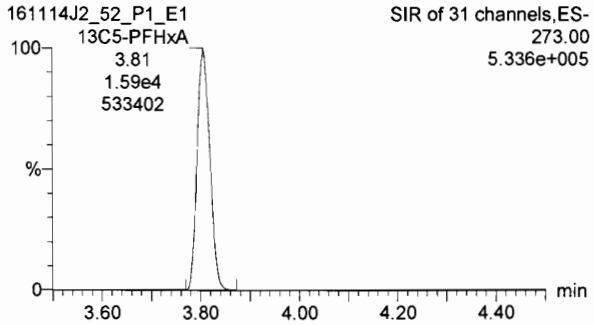
Last Altered: Tuesday, November 15, 2016 10:18:36 Pacific Standard Time
Printed: Tuesday, November 15, 2016 10:20:17 Pacific Standard Time

Name: 161114J2_52.wiff, Date: 15-Nov-2016, Time: 02:26:51, ID: ST161114J2-4 PFC C3.5 16K1120, Description: PFC C3.5 16K1120A A

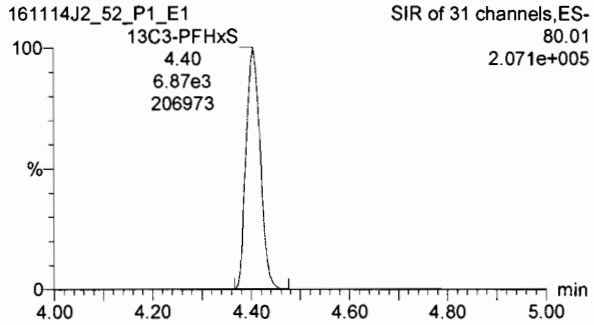
13C4-PFBA



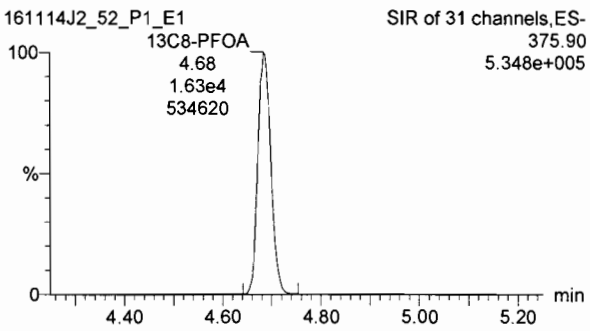
13C5-PFHxA



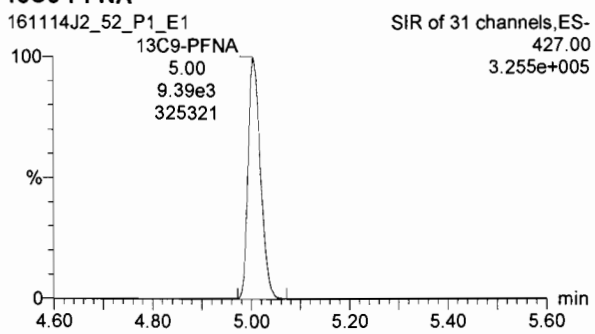
13C3-PFHxS



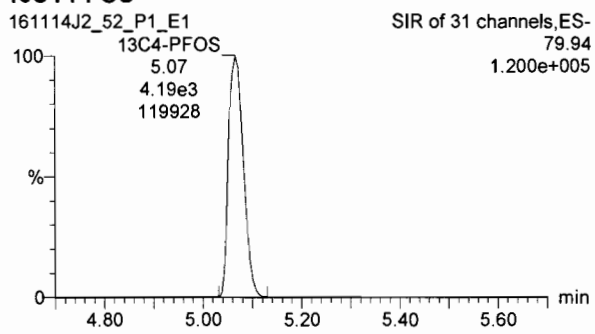
13C8-PFOA



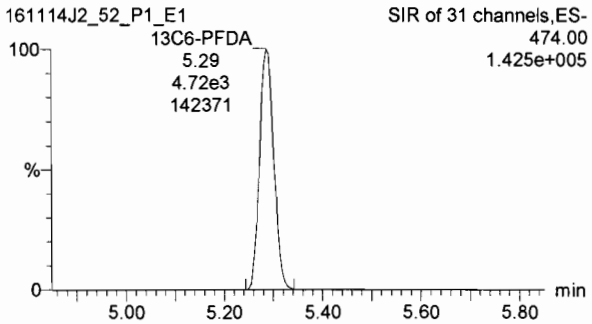
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-2.qld

Last Altered: Wednesday, November 30, 2016 13:13:50 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:31:40 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Name: 161130G1_2, Date: 30-Nov-2016, Time: 08:20:13, ID: ST161130G1-1 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	213.1 > 168.8	1.47e4	1.70e4		1.000	1.89	22.0	87.9	75-125
2	2	PFPeA	263.1 > 218.9	1.60e4	8.50e3		1.000	2.82	23.6	94.2	
3	3	PFBS	299 > 79.7	2.09e4	5.71e3		1.000	3.07	25.6	102.3	
4	4	PFHxA	313.2 > 268.9	1.28e4	5.29e3		1.000	3.44	20.2	80.8	
5	5	PFHpA	363 > 318.9	4.49e4	1.47e4		1.000	3.94	24.6	98.6	
6	6	PFHxS	398.9 > 79.6	2.02e4	5.73e3		1.000	4.06	25.6	102.5	
7	7	6:2 FTS	427.1 > 407	4.83e3	4.74e3		1.000	4.29	28.4	113.5	
8	8	PFOA	413 > 368.7	5.06e4	2.95e4		1.000	4.34	23.7	94.9	
9	9	PFHpS	449 > 98.7	3.89e3	2.95e4		1.000	4.43	18.1	A 72.5	
10	10	PFOS	499 >79.9	1.12e4	7.78e3		1.000	4.74	21.8	87.2	
11	11	PFNA	463 > 418.8	3.90e4	1.16e4		1.000	4.68	25.7	102.9	
12	12	PFDA	513 > 468.8	1.06e4	8.64e3		1.000	4.98	25.8	103.0	
13	13	8:2 FTS	527 > 506.9	3.24e3	3.15e3		1.000	4.95	26.3	105.2	
14	14	13C3-PFBA	216.1 > 171.8	1.70e4	1.29e4	1.205	1.000	1.89	13.7	110.0	60-150
15	15	13C3-PFPeA	266>221.8	8.50e3	1.98e4	0.448	1.000	2.82	12.0	95.8	
16	16	13C3-PFBS	302.0 > 98.8	5.71e3	1.98e4	0.302	1.000	3.07	11.9	95.4	
17	17	13C2-PFHxA	315 > 269.8	5.29e3	1.98e4	0.620	1.000	3.44	5.38	107.7	
18	18	13C4-PFHpA	367.2 > 321.8	1.47e4	1.19e4	1.139	1.000	3.94	13.6	108.5	
19	19	18O2-PFHxS	403 > 102.6	5.73e3	1.19e4	0.449	1.000	4.06	13.4	107.0	
20	20	13C2-6:2 FTS	429.1 > 408.9	4.74e3	4.90e3	1.073	1.000	4.29	11.3	90.3	40-150
21	21	13C2-PFOA	414.9 > 369.7	2.95e4	8.94e3	2.262	1.000	4.34	18.3	146.1	60-150
22	22	13C8-PFOS	507.0 > 79.9	7.78e3	7.25e3	0.944	1.000	4.74	14.2	113.8	
23	23	13C5-PFNA	468.2 > 422.9	1.16e4	1.05e4	1.082	1.000	4.68	12.8	102.3	50-150
24	24	13C2-PFDA	515.1 > 469.9	8.64e3	9.74e3	1.019	1.000	4.98	10.9	87.1	60-150
25	25	13C2-8:2 FTS	529.1 > 508.7	3.15e3	4.90e3	0.569	1.000	4.95	14.1	113.1	40-150
26	26	13C4-PFBA	217 > 171.8	1.29e4	1.29e4	1.000	1.000	1.89	12.5	100.0	
27	27	13C2-4:2 FTS	329.2 > 308.9	4.90e3	4.90e3	1.000	1.000	3.35	12.5	100.0	
28	28	13C5-PFHxA	318.0 > 272.9	1.98e4	1.98e4	1.000	1.000	3.44	12.5	100.0	
29	29	13C3-PFHxS	401.9 > 79.9	1.19e4	1.19e4	1.000	1.000	4.06	12.5	100.0	
30	30	13C8-PFOA	421.3 > 376	8.94e3	8.94e3	1.000	1.000	4.34	12.5	100.0	
31	31	13C4-PFOS	503.0 > 79.9	7.25e3	7.25e3	1.000	1.000	4.74	12.5	100.0	

A Not used.

AMSC 11/30/16

✓ AC 11/30/16

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-2.qld

Last Altered: Wednesday, November 30, 2016 13:13:50 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:31:40 Pacific Standard Time

Name: 161130G1_2, Date: 30-Nov-2016, Time: 08:20:13, ID: ST161130G1-1 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32	13C9-PFNA	472.2 > 426.9	1.05e4	1.05e4	1.000	1.000	4.68	12.5	100.0
33	33	13C6-PFDA	519.1 > 473.7	9.74e3	9.74e3	1.000	1.000	4.98	12.5	100.0

Quantify Compound Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, November 30, 2016 13:32:29 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:37:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161130G1_1	IPA	30-Nov-16	08:07:25
2	161130G1_2	ST161130G1-1 PFC CS3.5 16K2903	30-Nov-16	08:20:13
3	161130G1_3	IPA	30-Nov-16	08:32:56
4	161130G1_4	1601391-02 EB-M14-09D_161031 0.13063	30-Nov-16	08:48:05
5	161130G1_5	1601391-03 EB-M14-09S_161031 0.13015	30-Nov-16	09:00:50
6	161130G1_6	1601391-04 EB-M14-14_161031 0.13338	30-Nov-16	09:13:34
7	161130G1_7	1601391-05 FB-M14-09D_161031 0.13094	30-Nov-16	09:26:22
8	161130G1_8	1601391-06 FB-M14-09S_161031 0.13131	30-Nov-16	09:40:26
9	161130G1_9	1601391-07 FB-M14-14_161031 0.13013	30-Nov-16	09:53:14
10	161130G1_10	1601391-13 EB-M14-22_161031 0.12671	30-Nov-16	10:06:00
11	161130G1_11	1601391-14 EB-M14-23_161031 0.13045	30-Nov-16	10:18:40
12	161130G1_12	1601391-15 EB-M14-24_161031 0.12902	30-Nov-16	10:31:17
13	161130G1_13	1601391-16 FB-M14-22_161031 0.12848	30-Nov-16	10:43:55
14	161130G1_14	1601391-17 FB-M14-23_161031 0.12897	30-Nov-16	10:56:33
15	161130G1_15	1601391-18 FB-M14-24_161031 0.12624	30-Nov-16	11:09:12
16	161130G1_16	IPA	30-Nov-16	11:21:50
17	161130G1_17	ST161130G1-2 PFC CS3.5 16K2903	30-Nov-16	11:34:30
18	161130G1_18			

LC Calibration Standards Review Checklist Q1

			ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manaul Integrations	N/A
Calibration ID:	ST16113061-1	L (M) H	N/A	(A) not used ☑	☑	☑	☑	☑	☐
Calibration ID:	ST16113061-2	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	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 11/21/16

Comments:
(A) PFHpS not used for sample list
AMSC 11/30/16

Reviewed By: AC 11/30/16
Initials/Date

Quantify Sample Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

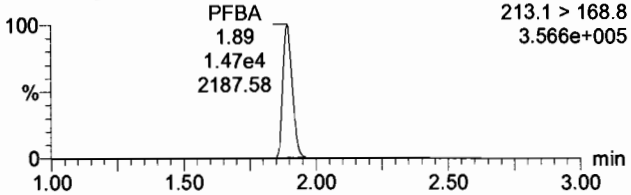
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-2.qld

Last Altered: Wednesday, November 30, 2016 13:13:50 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:16 Pacific Standard Time

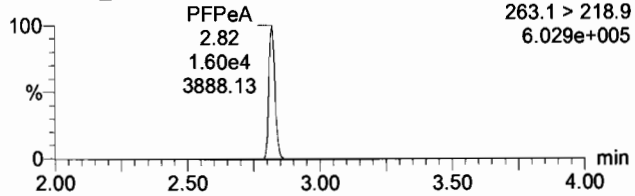
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Name: 161130G1_2, Date: 30-Nov-2016, Time: 08:20:13, ID: ST161130G1-1 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

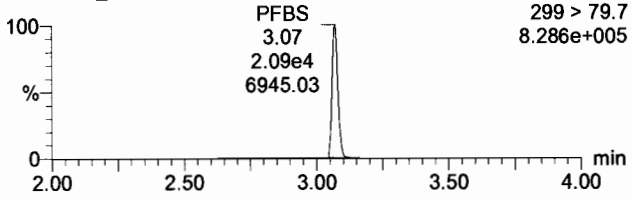
PFBA
161130G1_2 F2:MRM of 3 channels,ES- 213.1 > 168.8 3.566e+005
PFBA 1.89 1.47e4 2187.58



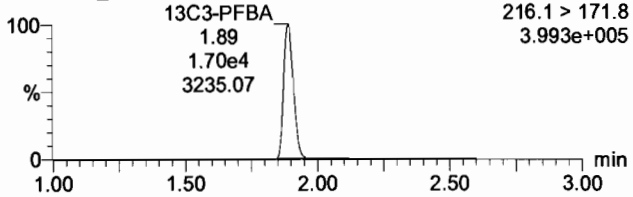
PFPeA
161130G1_2 F3:MRM of 4 channels,ES- 263.1 > 218.9 6.029e+005
PFPeA 2.82 1.60e4 3888.13



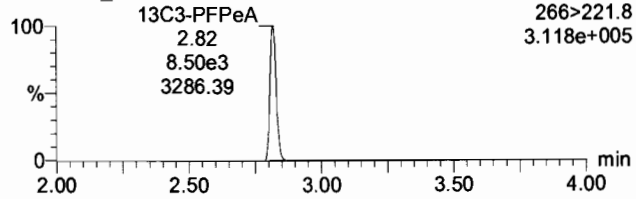
PFBS
161130G1_2 F3:MRM of 4 channels,ES- 299 > 79.7 8.286e+005
PFBS 3.07 2.09e4 6945.03



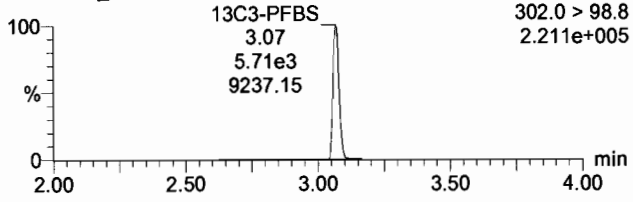
13C3-PFBA
161130G1_2 F2:MRM of 3 channels,ES- 216.1 > 171.8 3.993e+005
13C3-PFBA 1.89 1.70e4 3235.07



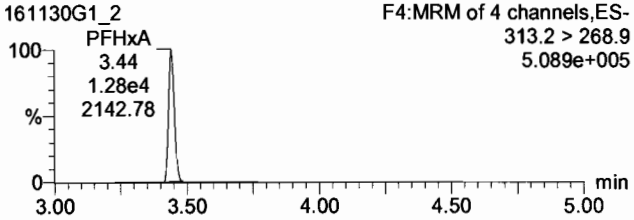
13C3-PFPeA
161130G1_2 F3:MRM of 4 channels,ES- 266>221.8 3.118e+005
13C3-PFPeA 2.82 8.50e3 3286.39



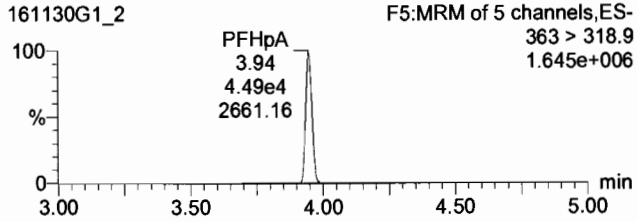
13C3-PFBS
161130G1_2 F3:MRM of 4 channels,ES- 302.0 > 98.8 2.211e+005
13C3-PFBS 3.07 5.71e3 9237.15



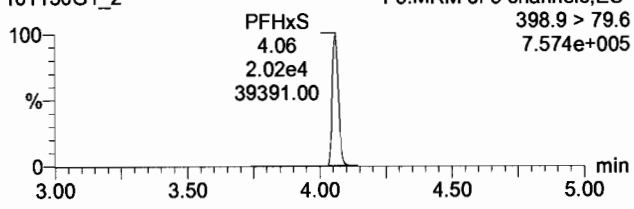
PFHxA
161130G1_2 F4:MRM of 4 channels,ES- 313.2 > 268.9 5.089e+005
PFHxA 3.44 1.28e4 2142.78



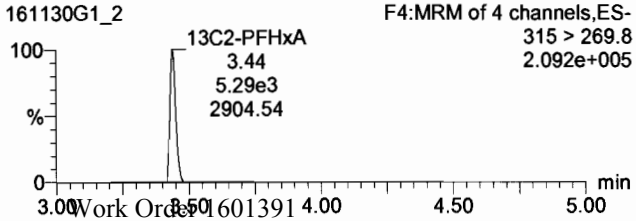
PFHpA
161130G1_2 F5:MRM of 5 channels,ES- 363 > 318.9 1.645e+006
PFHpA 3.94 4.49e4 2661.16



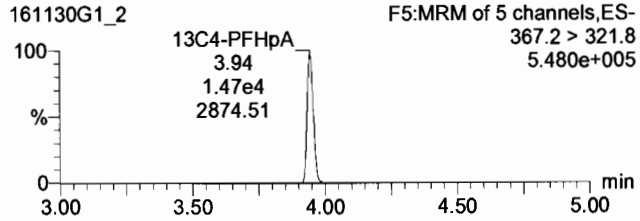
PFHxS
161130G1_2 F5:MRM of 5 channels,ES- 398.9 > 79.6 7.574e+005
PFHxS 4.06 2.02e4 39391.00



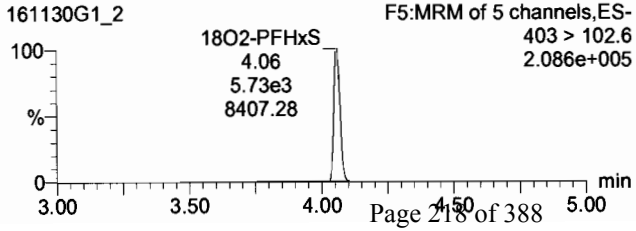
13C2-PFHxA
161130G1_2 F4:MRM of 4 channels,ES- 315 > 269.8 2.092e+005
13C2-PFHxA 3.44 5.29e3 2904.54



13C4-PFHpA
161130G1_2 F5:MRM of 5 channels,ES- 367.2 > 321.8 5.480e+005
13C4-PFHpA 3.94 1.47e4 2874.51



18O2-PFHxS
161130G1_2 F5:MRM of 5 channels,ES- 403 > 102.6 2.086e+005
18O2-PFHxS 4.06 5.73e3 8407.28



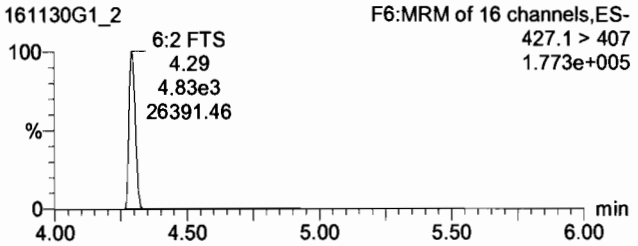
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-2.qld

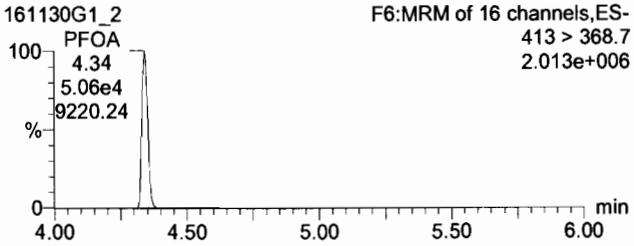
Last Altered: Wednesday, November 30, 2016 13:13:50 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:16 Pacific Standard Time

Name: 161130G1_2, Date: 30-Nov-2016, Time: 08:20:13, ID: ST161130G1-1 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

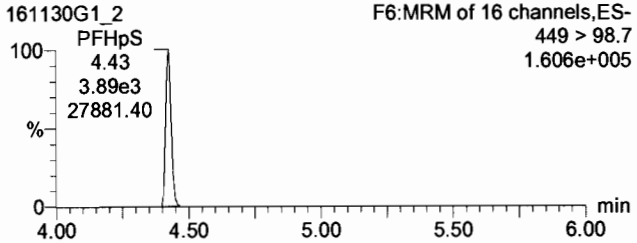
6:2 FTS



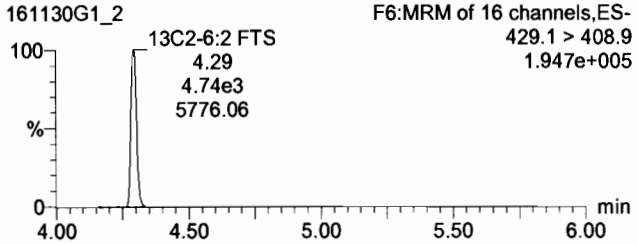
PFOA



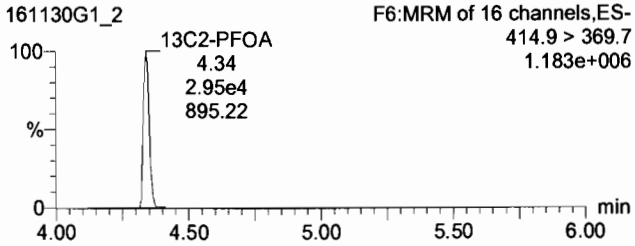
PFHpS



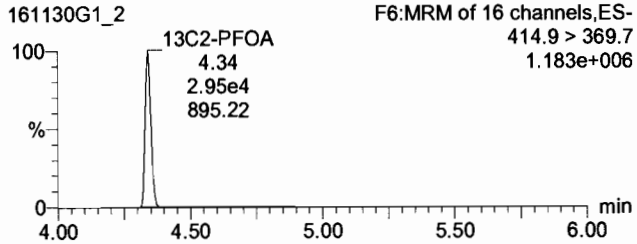
13C2-6:2 FTS



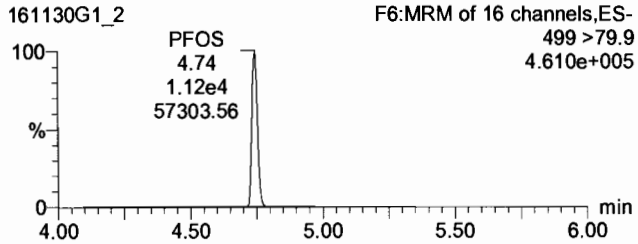
13C2-PFOA



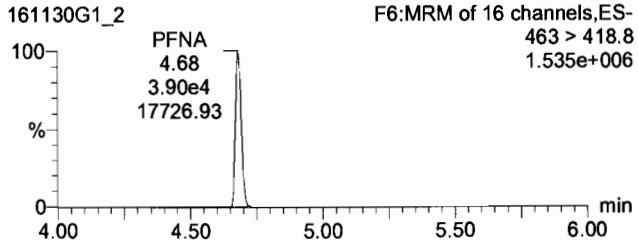
13C2-PFOA



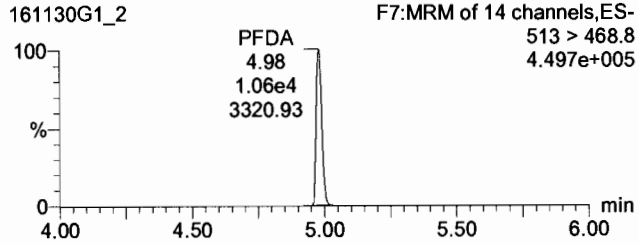
PFOS



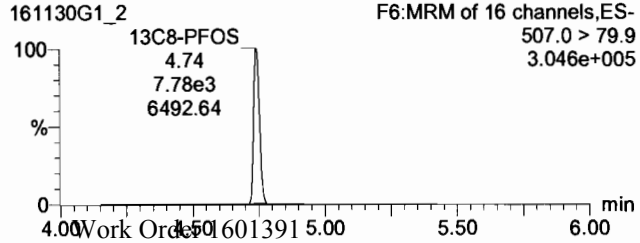
PFNA



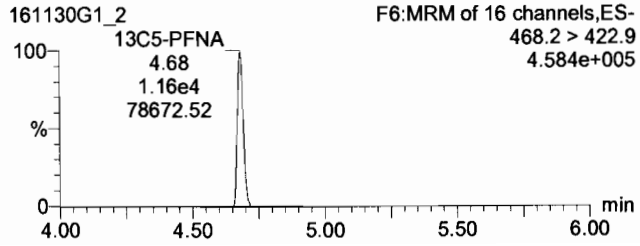
PFDA



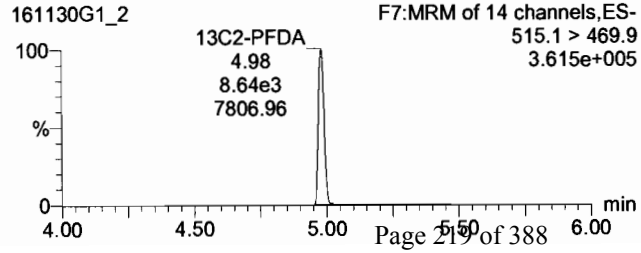
13C8-PFOS



13C5-PFNA



13C2-PFDA



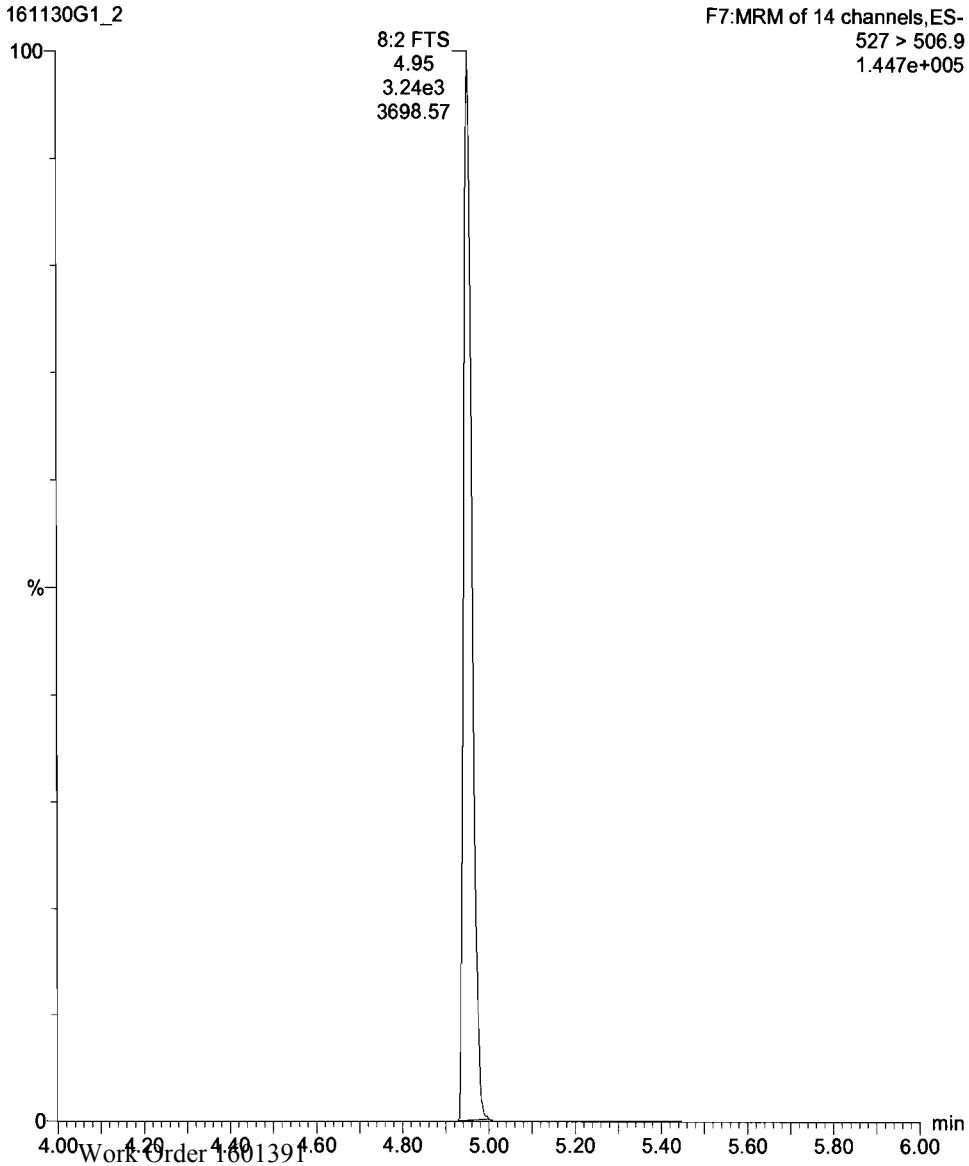
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-2.qld

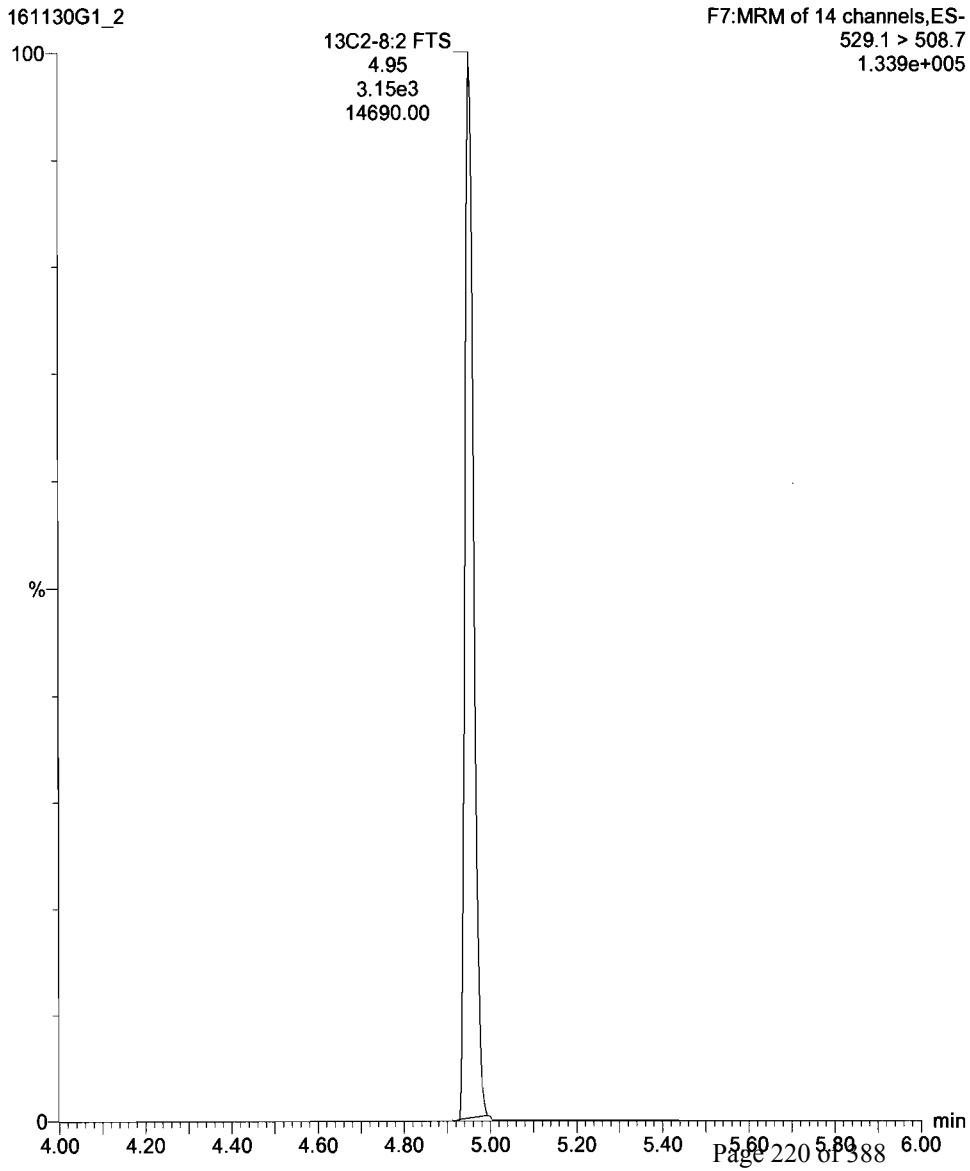
Last Altered: Wednesday, November 30, 2016 13:13:50 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:16 Pacific Standard Time

Name: 161130G1_2, Date: 30-Nov-2016, Time: 08:20:13, ID: ST161130G1-1 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

8:2 FTS



13C2-8:2 FTS

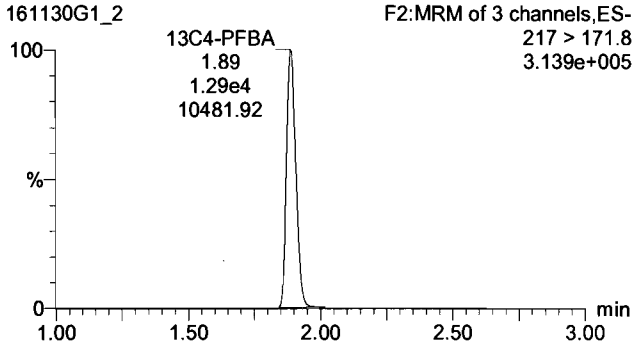


Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-2.qld

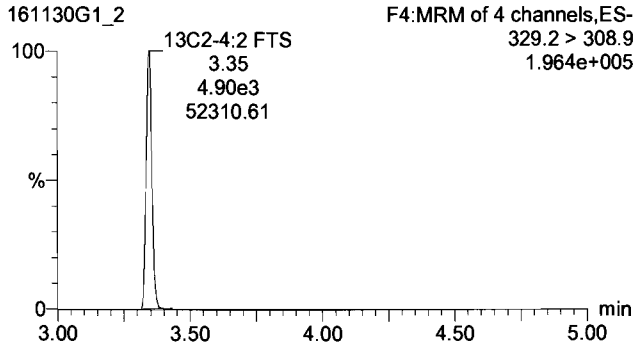
Last Altered: Wednesday, November 30, 2016 13:13:50 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:16 Pacific Standard Time

Name: 161130G1_2, Date: 30-Nov-2016, Time: 08:20:13, ID: ST161130G1-1 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

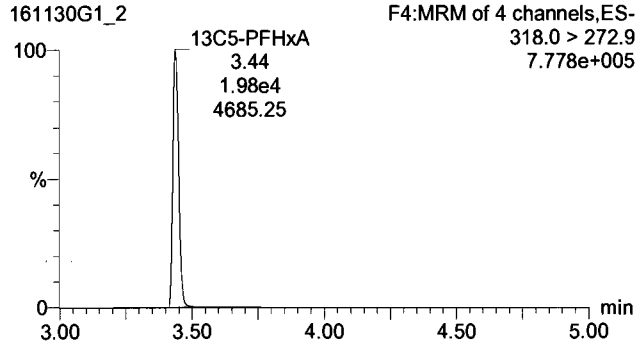
13C4-PFBA



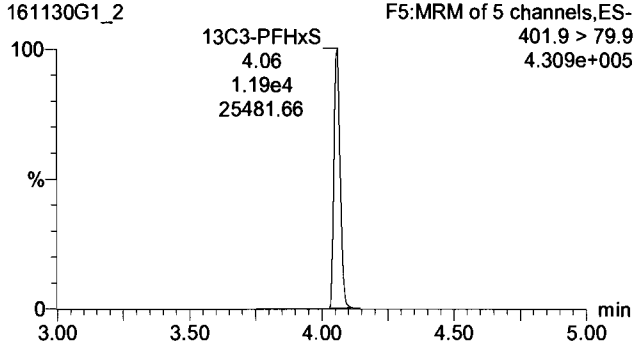
13C2-4:2 FTS



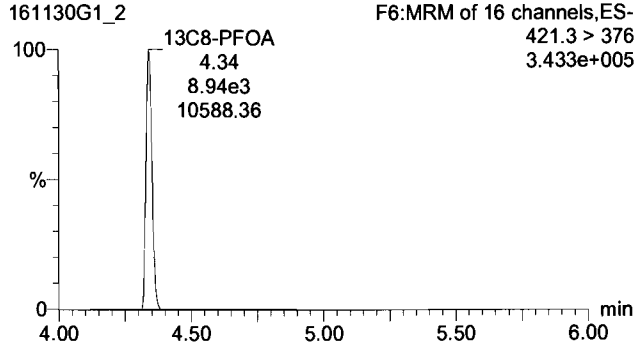
13C5-PFHxA



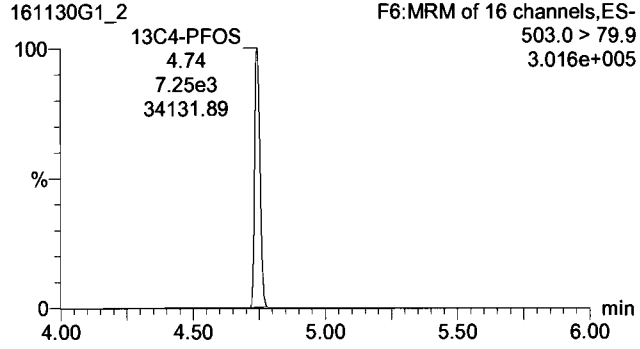
13C3-PFHxS



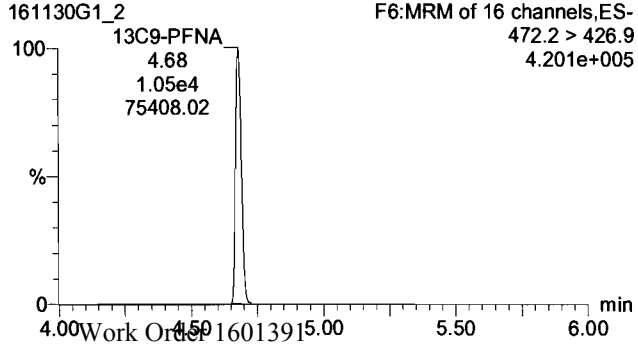
13C8-PFOA



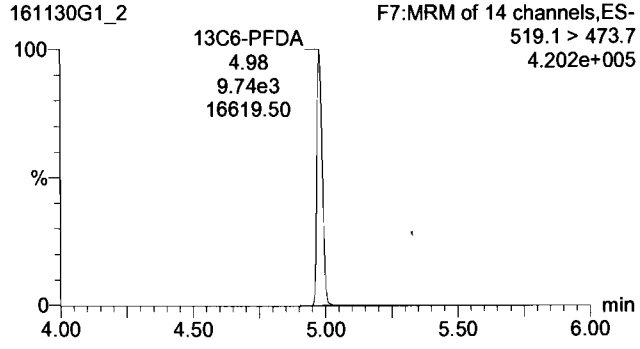
13C4-PFOS



13C9-PFNA



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-17.qld

Last Altered: Wednesday, November 30, 2016 13:15:07 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:42:37 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Name: 161130G1_17, Date: 30-Nov-2016, Time: 11:34:30, ID: ST161130G1-2 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	213.1 > 168.8	1.47e4	1.47e4		1.000	1.90	25.5	101.9	75-125
2	2	PFPeA	263.1 > 218.9	1.42e4	7.16e3		1.000	2.82	24.9	99.4	
3	3	PFBS	299 > 79.7	1.98e4	5.78e3		1.000	3.07	24.0	96.1	
4	4	PFHxA	313.2 > 268.9	1.40e4	4.55e3		1.000	3.44	25.7	102.7	
5	5	PFHpA	363 > 318.9	4.80e4	1.54e4		1.000	3.94	25.2	100.9	
6	6	PFHxS	398.9 > 79.6	2.07e4	5.83e3		1.000	4.06	25.8	103.2	
7	7	6:2 FTS	427.1 > 407	5.51e3	6.31e3		1.000	4.29	24.7	98.6	
8	8	PFOA	413 > 368.7	5.16e4	2.80e4		1.000	4.34	25.5	101.9	
9	9	PFHpS	449 > 98.7	4.50e3	2.80e4		1.000	4.43	22.0	88.2	
10	10	PFOS	499 >79.9	1.25e4	8.98e3		1.000	4.74	21.0	84.2	
11	11	PFNA	463 > 418.8	4.27e4	1.52e4		1.000	4.68	21.5	86.0	
12	12	PFDA	513 > 468.8	1.12e4	9.74e3		1.000	4.98	24.1	96.3	
13	13	8:2 FTS	527 > 506.9	3.22e3	3.39e3		1.000	4.96	24.2	96.7	
14	14	13C3-PFBA	216.1 > 171.8	1.47e4	1.17e4	1.205	1.000	1.90	13.0	104.0	60-150
15	15	13C3-PFPeA	266>221.8	7.16e3	1.78e4	0.448	1.000	2.82	11.2	89.7	
16	16	13C3-PFBS	302.0 > 98.8	5.78e3	1.78e4	0.302	1.000	3.07	13.4	107.3	
17	17	13C2-PFHxA	315 > 269.8	4.55e3	1.78e4	0.620	1.000	3.44	5.15	103.1	
18	18	13C4-PFHpA	367.2 > 321.8	1.54e4	1.19e4	1.139	1.000	3.94	14.1	113.1	
19	19	18O2-PFHxS	403 > 102.6	5.83e3	1.19e4	0.449	1.000	4.06	13.6	108.7	
20	20	13C2-6:2 FTS	429.1 > 408.9	6.31e3	5.65e3	1.073	1.000	4.29	13.0	104.0	40-150
21	21	13C2-PFOA	414.9 > 369.7	2.80e4	1.05e4	2.262	1.000	4.34	14.8	118.6	60-150
22	22	13C8-PFOS	507.0 > 79.9	8.98e3	8.48e3	0.944	1.000	4.74	14.0	112.2	
23	23	13C5-PFNA	468.2 > 422.9	1.52e4	1.27e4	1.082	1.000	4.68	13.8	110.7	50-150
24	24	13C2-PFDA	515.1 > 469.9	9.74e3	1.06e4	1.019	1.000	4.98	11.3	90.5	60-150
25	25	13C2-8:2 FTS	529.1 > 508.7	3.39e3	5.65e3	0.569	1.000	4.96	13.2	105.3	40-150
26	26	13C4-PFBA	217 > 171.8	1.17e4	1.17e4	1.000	1.000	1.90	12.5	100.0	
27	27	13C2-4:2 FTS	329.2 > 308.9	5.65e3	5.65e3	1.000	1.000	3.35	12.5	100.0	
28	28	13C5-PFHxA	318.0 > 272.9	1.78e4	1.78e4	1.000	1.000	3.44	12.5	100.0	
29	29	13C3-PFHxS	401.9 > 79.9	1.19e4	1.19e4	1.000	1.000	4.06	12.5	100.0	
30	30	13C8-PFOA	421.3 > 376	1.05e4	1.05e4	1.000	1.000	4.34	12.5	100.0	
31	31	13C4-PFOS	503.0 > 79.9	8.48e3	8.48e3	1.000	1.000	4.74	12.5	100.0	

AMSC 11/30/16

✓ AC 11/30/16

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-17.qld

Last Altered: Wednesday, November 30, 2016 13:15:07 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:42:37 Pacific Standard Time

Name: 161130G1_17, Date: 30-Nov-2016, Time: 11:34:30, ID: ST161130G1-2 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

	# Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 13C9-PFNA	472.2 > 426.9	1.27e4	1.27e4	1.000	1.000	4.68	12.5	100.0
33	33 13C6-PFDA	519.1 > 473.7	1.06e4	1.06e4	1.000	1.000	4.98	12.5	100.0

Quantify Compound Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, November 30, 2016 13:32:29 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:37:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161130G1_1	IPA	30-Nov-16	08:07:25
2	161130G1_2	ST161130G1-1 PFC CS3.5 16K2903	30-Nov-16	08:20:13
3	161130G1_3	IPA	30-Nov-16	08:32:56
4	161130G1_4	1601391-02 EB-M14-09D_161031 0.13063	30-Nov-16	08:48:05
5	161130G1_5	1601391-03 EB-M14-09S_161031 0.13015	30-Nov-16	09:00:50
6	161130G1_6	1601391-04 EB-M14-14_161031 0.13338	30-Nov-16	09:13:34
7	161130G1_7	1601391-05 FB-M14-09D_161031 0.13094	30-Nov-16	09:26:22
8	161130G1_8	1601391-06 FB-M14-09S_161031 0.13131	30-Nov-16	09:40:26
9	161130G1_9	1601391-07 FB-M14-14_161031 0.13013	30-Nov-16	09:53:14
10	161130G1_10	1601391-13 EB-M14-22_161031 0.12671	30-Nov-16	10:06:00
11	161130G1_11	1601391-14 EB-M14-23_161031 0.13045	30-Nov-16	10:18:40
12	161130G1_12	1601391-15 EB-M14-24_161031 0.12902	30-Nov-16	10:31:17
13	161130G1_13	1601391-16 FB-M14-22_161031 0.12848	30-Nov-16	10:43:55
14	161130G1_14	1601391-17 FB-M14-23_161031 0.12897	30-Nov-16	10:56:33
15	161130G1_15	1601391-18 FB-M14-24_161031 0.12624	30-Nov-16	11:09:12
16	161130G1_16	IPA	30-Nov-16	11:21:50
17	161130G1_17	ST161130G1-2 PFC CS3.5 16K2903	30-Nov-16	11:34:30
18	161130G1_18			

Vista Analytical Laboratory Q1

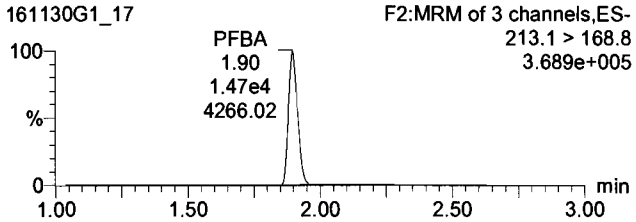
Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-17.qld

Last Altered: Wednesday, November 30, 2016 13:15:07 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:37 Pacific Standard Time

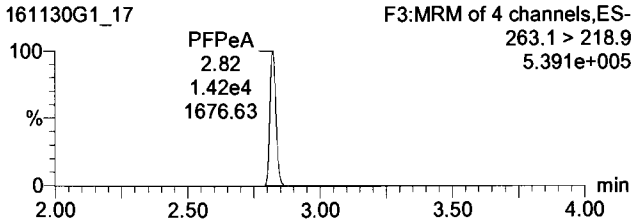
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 29 Nov 2016 13:36:56
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Name: 161130G1_17, Date: 30-Nov-2016, Time: 11:34:30, ID: ST161130G1-2 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

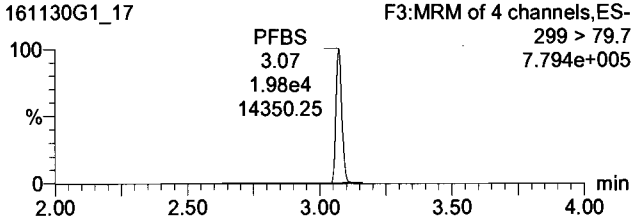
PFBA



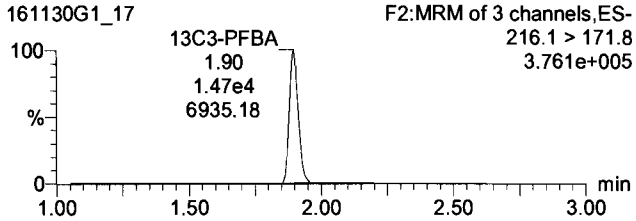
PFPeA



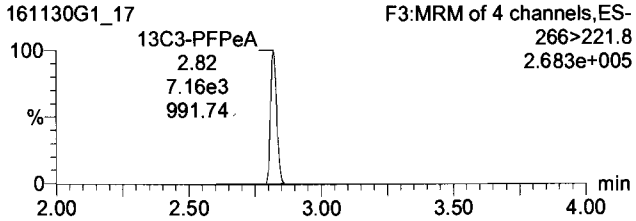
PFBS



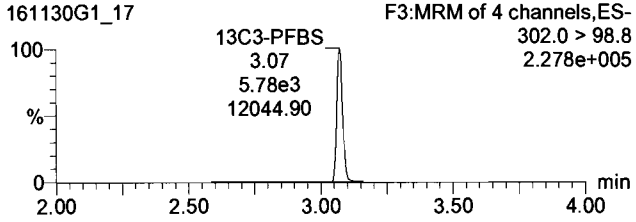
13C3-PFBA



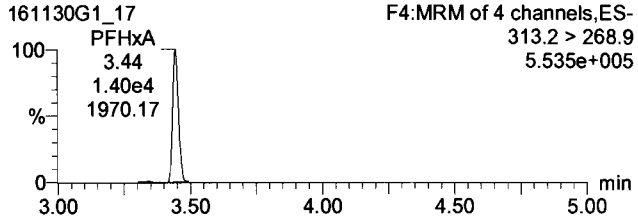
13C3-PFPeA



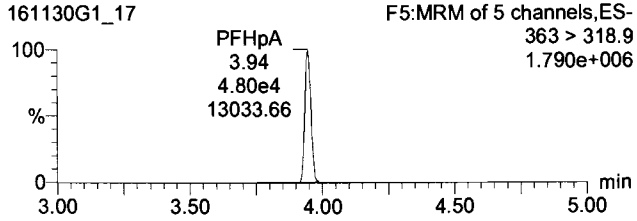
13C3-PFBS



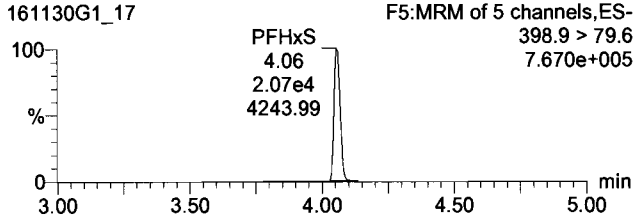
PFHxA



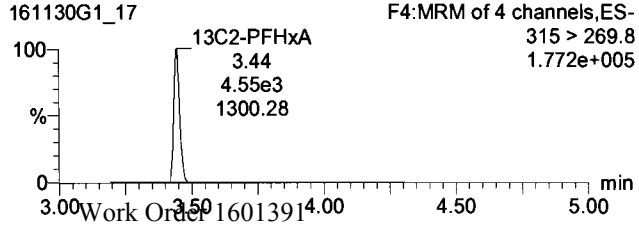
PFHpA



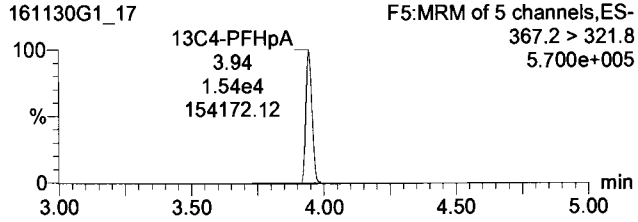
PFHxS



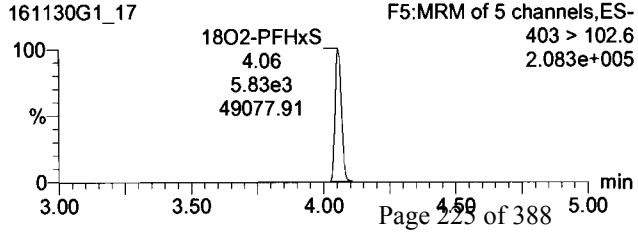
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

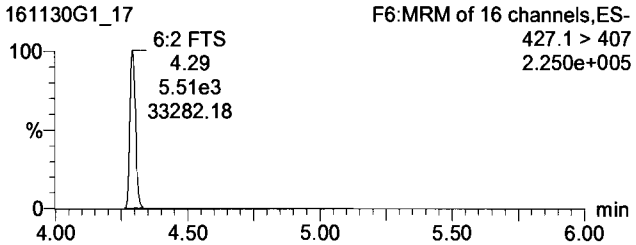


Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-17.qld

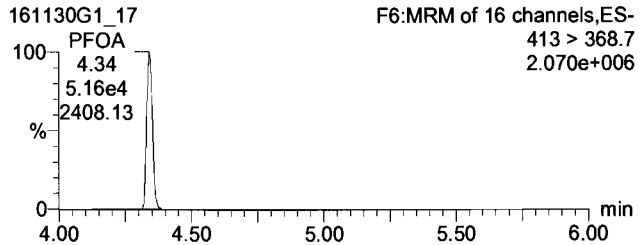
Last Altered: Wednesday, November 30, 2016 13:15:07 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:37 Pacific Standard Time

Name: 161130G1_17, Date: 30-Nov-2016, Time: 11:34:30, ID: ST161130G1-2 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

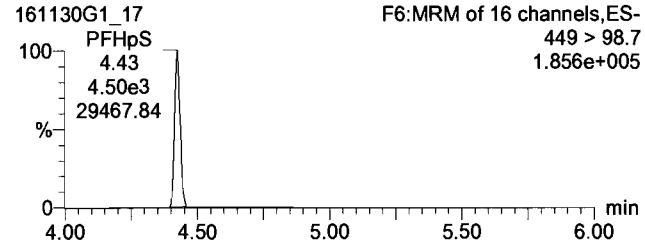
6:2 FTS



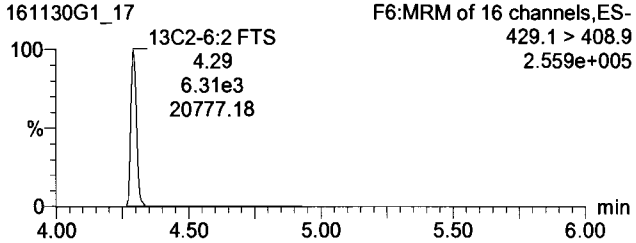
PFOA



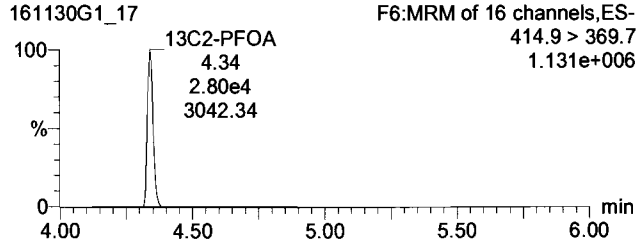
PFHpS



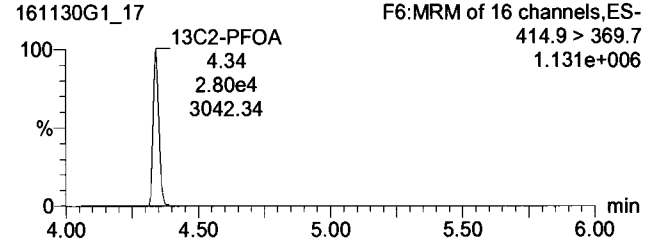
13C2-6:2 FTS



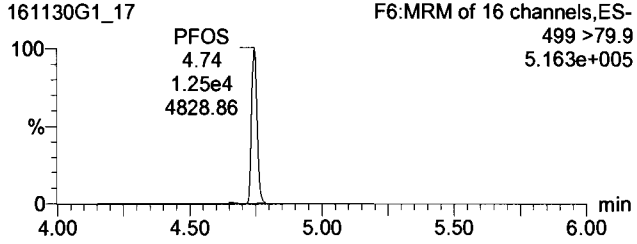
13C2-PFOA



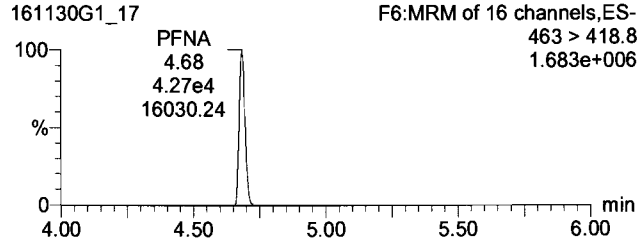
13C2-PFOA



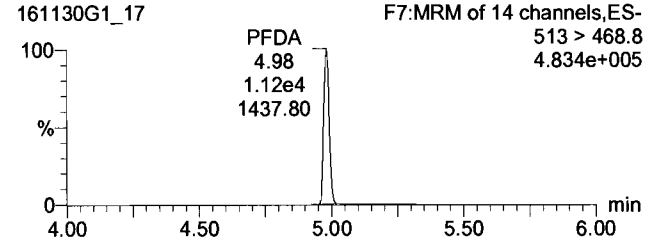
PFOS



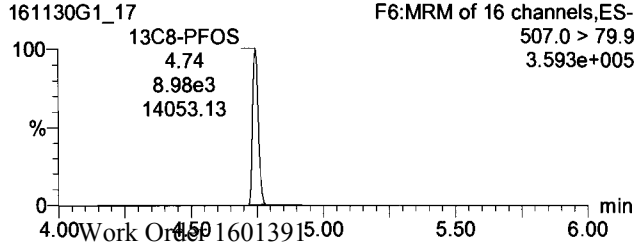
PFNA



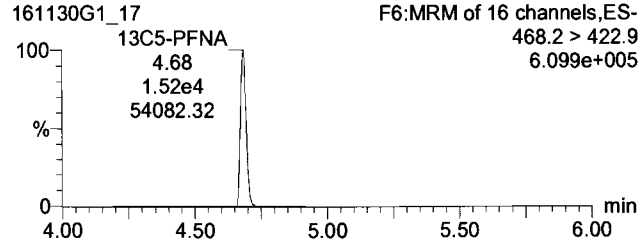
PFDA



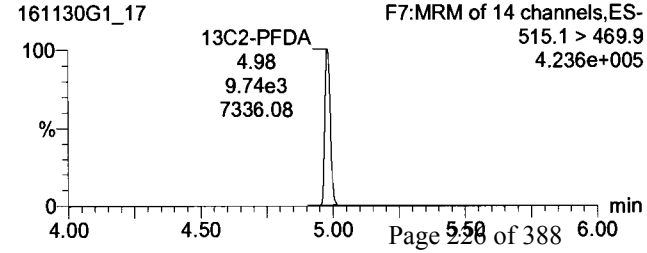
13C8-PFOS



13C5-PFNA



13C2-PFDA



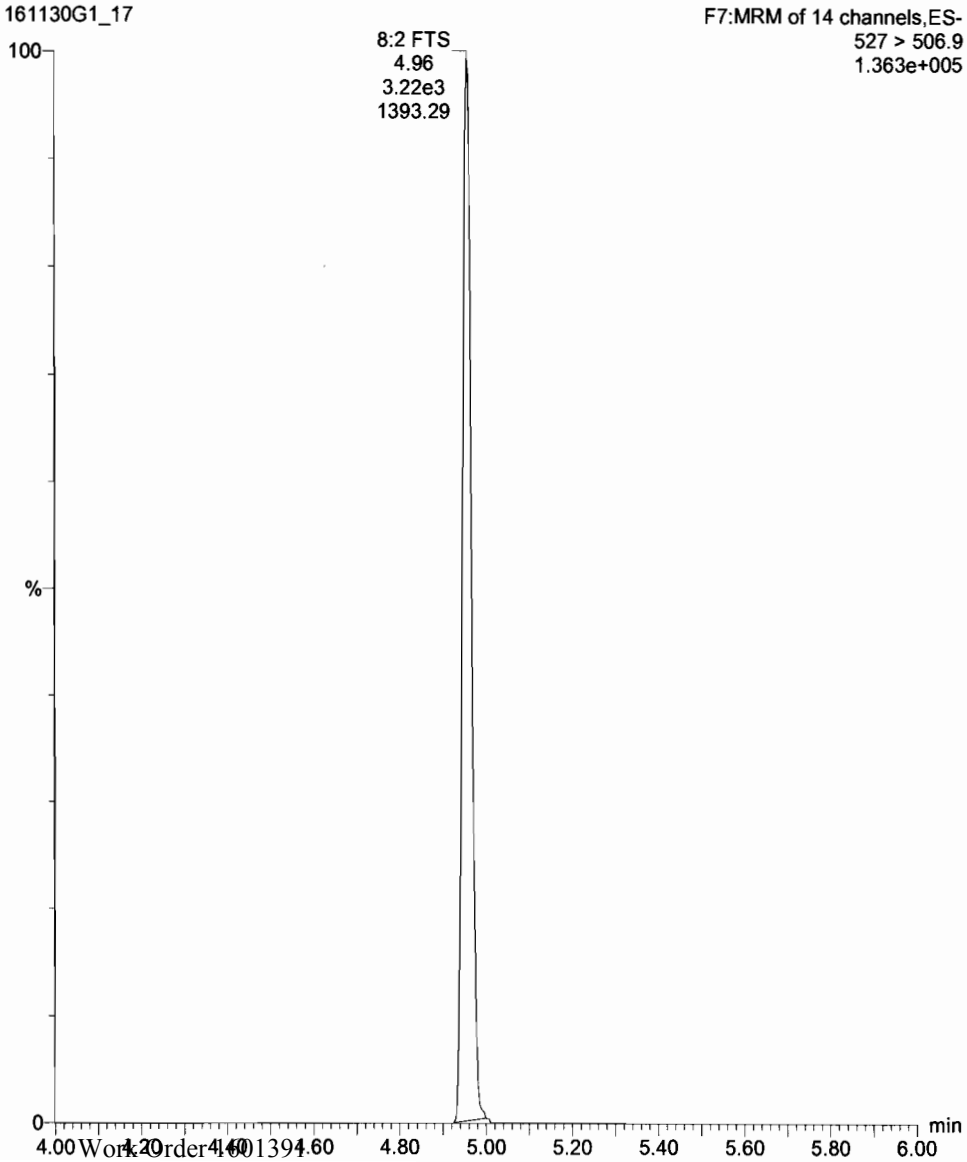
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-17.qld

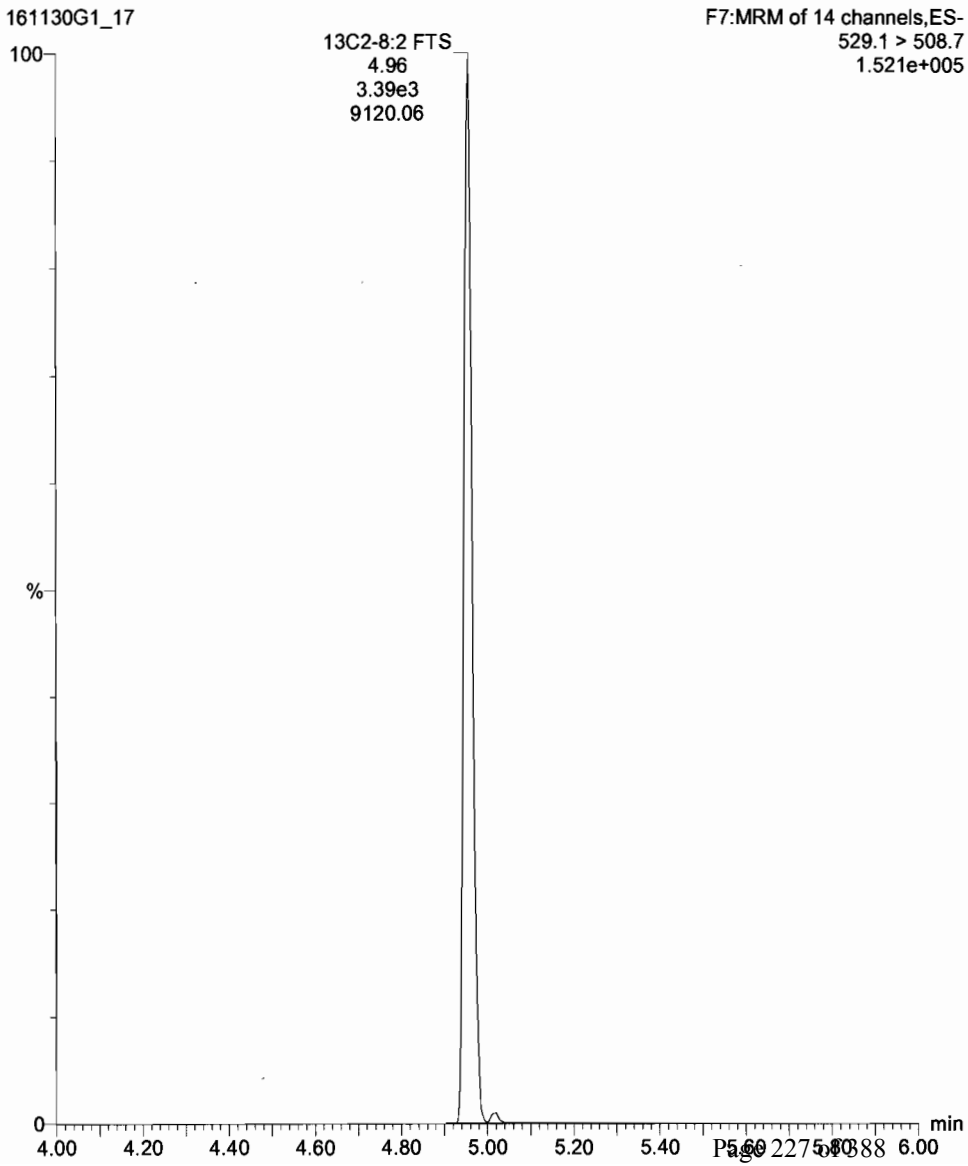
Last Altered: Wednesday, November 30, 2016 13:15:07 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:37 Pacific Standard Time

Name: 161130G1_17, Date: 30-Nov-2016, Time: 11:34:30, ID: ST161130G1-2 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

8:2 FTS



13C2-8:2 FTS

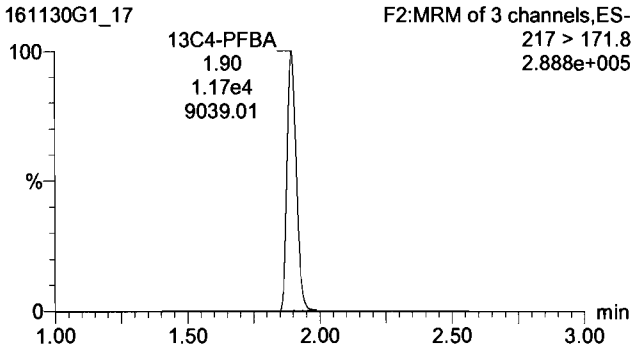


Dataset: U:\G1.PRO\Results\2016\161130G1\161130G1-17.qld

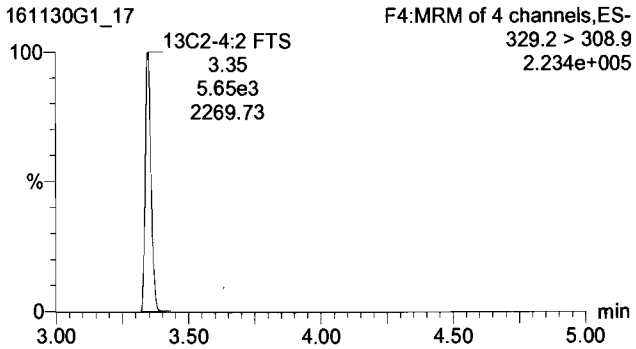
Last Altered: Wednesday, November 30, 2016 13:15:07 Pacific Standard Time
Printed: Wednesday, November 30, 2016 13:30:37 Pacific Standard Time

Name: 161130G1_17, Date: 30-Nov-2016, Time: 11:34:30, ID: ST161130G1-2 PFC CS3.5 16K2903, Description: PFC CS3.5 16K2903 A

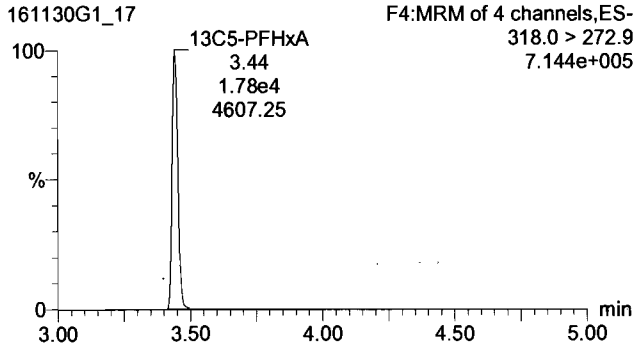
13C4-PFBA



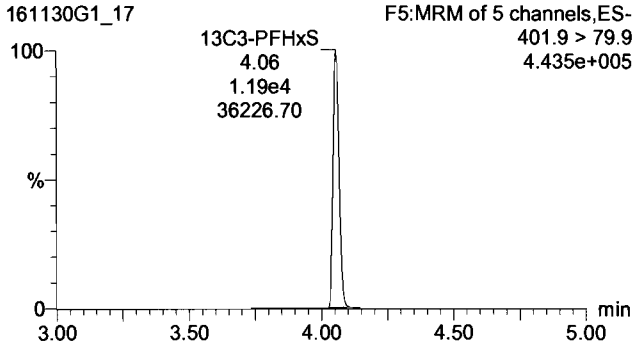
13C2-4:2 FTS



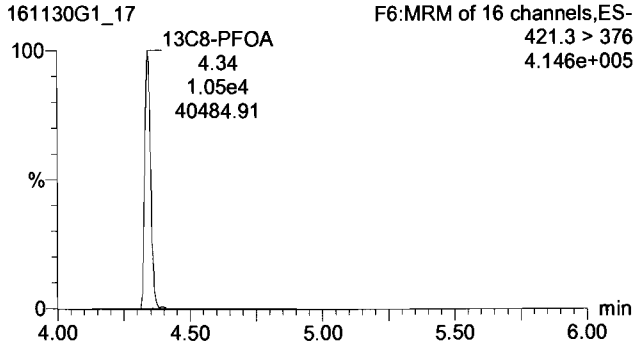
13C5-PFHxA



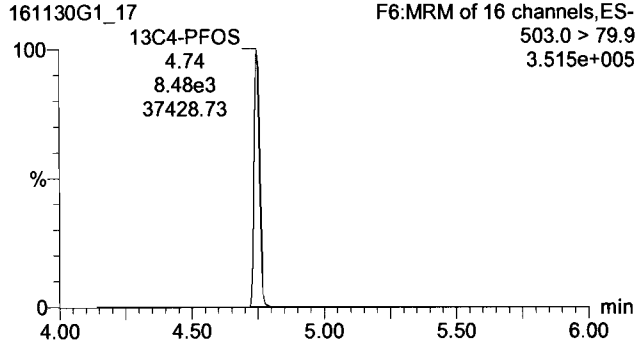
13C3-PFHxS



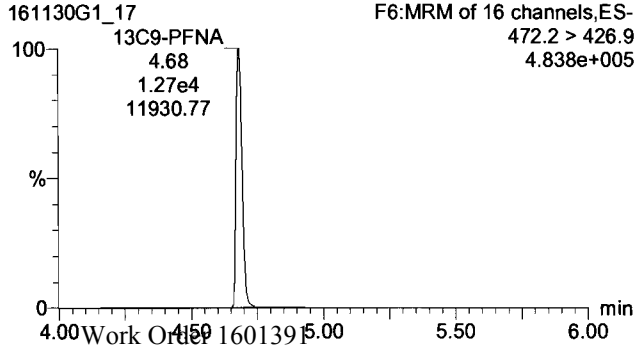
13C8-PFOA



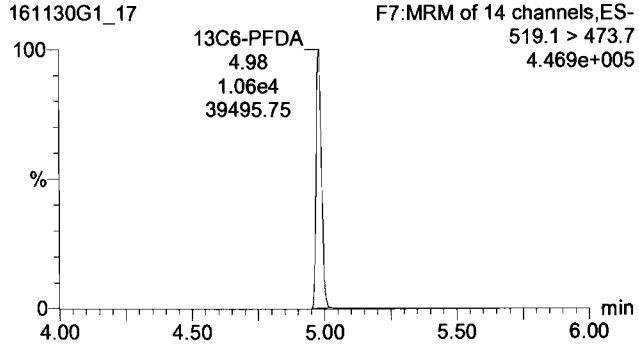
13C4-PFOS



13C9-PFNA



13C6-PFDA



INITIAL CALIBRATION

Quantify Compound Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Compound name: PFBA
Correlation coefficient: r = 0.998498, r^2 = 0.996999
Calibration curve: 1.04509 * x + 0.0382703
Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	2.04	5.63e2	1.03e4	0.616	23.3	1.36
2	2	161111J2_04_P1_E1	1.00	2.04	9.71e2	1.10e4	1.02	2.2	1.11
3	3	161111J2_05_P1_E1	2.00	2.03	1.64e3	1.14e4	1.68	-15.9	0.898
4	4	161111J2_06_P1_E1	5.00	2.04	3.73e3	1.12e4	3.94	-21.3	0.830
5	5	161111J2_07_P1_E1	10.0	2.04	1.01e4	1.08e4	11.1	10.6	1.16
6	6	161111J2_08_P1_E1	25.0	2.04	2.07e4	8.98e3	27.6	10.3	1.15
7	7	161111J2_09_P1_E1	50.0	2.04	4.37e4	1.03e4	50.8	1.5	1.06
8	8	161111J2_10_P1_E1	75.0	2.04	6.53e4	1.05e4	74.4	-0.8	1.04
9	9	161111J2_11_P1_E1	100	2.04	8.30e4	1.02e4	97.5	-2.5	1.02

PW
11/12/16

✓AC 11/13/16

Compound name: PFPeA
Correlation coefficient: r = 0.998036, r^2 = 0.996076
Calibration curve: 0.910461 * x + 0.0566694
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	3.18	5.69e2	1.15e4	0.619	23.7	1.24
2	2	161111J2_04_P1_E1	1.00	3.19	1.04e3	1.26e4	1.07	7.4	1.03
3	3	161111J2_05_P1_E1	2.00	3.18	1.66e3	1.32e4	1.66	-16.9	0.785
4	4	161111J2_06_P1_E1	5.00	3.18	3.82e3	1.32e4	3.91	-21.8	0.723
5	5	161111J2_07_P1_E1	10.0	3.19	1.04e4	1.30e4	10.9	8.9	0.998
6	6	161111J2_08_P1_E1	25.0	3.18	2.17e4	1.06e4	28.1	12.6	1.03
7	7	161111J2_09_P1_E1	50.0	3.18	4.51e4	1.20e4	51.7	3.4	0.943
8	8	161111J2_10_P1_E1	75.0	3.18	6.59e4	1.22e4	74.0	-1.4	0.899
9	9	161111J2_11_P1_E1	100	3.18	8.26e4	1.17e4	96.5	-3.5	0.880

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: PFBS
Coefficient of Determination: R^2 = 0.977505
Calibration curve: 0.00122129 * x^2 + 0.743308 * x + 0.145497
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	3.45	2.92e2	6.77e3	0.529	5.8	1.08
2	2	161111J2_04_P1_E1	1.00	3.47	4.88e2	6.92e3	0.988	-1.2	0.881
3	3	161111J2_05_P1_E1	2.00	3.46	8.48e2	7.66e3	1.66	-17.0	0.692
4	4	161111J2_06_P1_E1	5.00	3.46	1.89e3	7.70e3	3.90	-22.1	0.612
5	5	161111J2_07_P1_E1	10.0	3.47	5.15e3	7.23e3	11.6	15.7	0.891
6	6	161111J2_08_P1_E1	25.0	3.46	1.10e4	5.91e3	29.6	18.3	0.928
7	7	161111J2_09_P1_E1	50.0	3.46	2.22e4	6.45e3	53.1	6.2	0.861
8	8	161111J2_10_P1_E1	75.0	3.46	3.34e4	6.63e3	75.3	0.4	0.840
9	9	161111J2_11_P1_E1	100	3.46	4.15e4	6.50e3	93.1	-6.9	0.799

Compound name: PFHxA
Correlation coefficient: r = 0.996921, r^2 = 0.993852
Calibration curve: 0.852369 * x + 0.067677
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	3.84	5.34e2	4.46e3	0.623	24.6	1.20
2	2	161111J2_04_P1_E1	1.00	3.84	9.27e2	4.84e3	1.04	4.4	0.958
3	3	161111J2_05_P1_E1	2.00	3.83	1.51e3	5.10e3	1.65	-17.4	0.738
4	4	161111J2_06_P1_E1	5.00	3.84	3.45e3	5.09e3	3.90	-22.0	0.678
5	5	161111J2_07_P1_E1	10.0	3.84	9.48e3	4.93e3	11.2	12.0	0.962
6	6	161111J2_08_P1_E1	25.0	3.84	1.97e4	3.97e3	29.0	15.9	0.990
7	7	161111J2_09_P1_E1	50.0	3.84	4.06e4	4.55e3	52.3	4.6	0.893
8	8	161111J2_10_P1_E1	75.0	3.85	5.88e4	4.61e3	74.7	-0.4	0.850
9	9	161111J2_11_P1_E1	100	3.85	7.27e4	4.53e3	94.1	-5.9	0.803

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: PFHpA
Correlation coefficient: r = 0.998500, r^2 = 0.997002
Calibration curve: 0.842904 * x + 0.0395603
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	4.32	4.20e2	9.04e3	0.642	28.4	1.16
2	2	161111J2_04_P1_E1	1.00	4.33	7.53e2	9.91e3	1.08	7.9	0.949
3	3	161111J2_05_P1_E1	2.00	4.32	1.18e3	1.08e4	1.57	-21.4	0.682
4	4	161111J2_06_P1_E1	5.00	4.33	2.74e3	1.04e4	3.86	-22.8	0.659
5	5	161111J2_07_P1_E1	10.0	4.32	7.77e3	1.05e4	11.0	9.6	0.928
6	6	161111J2_08_P1_E1	25.0	4.32	1.58e4	8.54e3	27.4	9.8	0.927
7	7	161111J2_09_P1_E1	50.0	4.32	3.40e4	1.00e4	50.1	0.1	0.845
8	8	161111J2_10_P1_E1	75.0	4.33	5.23e4	1.04e4	74.6	-0.5	0.839
9	9	161111J2_11_P1_E1	100	4.32	6.50e4	9.81e3	98.3	-1.7	0.829

Compound name: PFHxS
Coefficient of Determination: R^2 = 0.998167
Calibration curve: 0.00081896 * x^2 + 3.22284 * x + 0.0419742
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	4.43	2.29e2	1.34e3	0.648	29.7	4.26
2	2	161111J2_04_P1_E1	1.00	4.44	3.76e2	1.41e3	1.02	1.8	3.32
3	3	161111J2_05_P1_E1	2.00	4.43	6.82e2	1.59e3	1.65	-17.4	2.68
4	4	161111J2_06_P1_E1	5.00	4.44	1.50e3	1.48e3	3.91	-21.8	2.53
5	5	161111J2_07_P1_E1	10.0	4.44	3.85e3	1.46e3	10.2	2.0	3.30
6	6	161111J2_08_P1_E1	25.0	4.44	8.40e3	1.22e3	26.6	6.3	3.45
7	7	161111J2_09_P1_E1	50.0	4.44	1.86e4	1.41e3	50.3	0.6	3.28
8	8	161111J2_10_P1_E1	75.0	4.44	2.65e4	1.37e3	73.8	-1.6	3.23
9	9	161111J2_11_P1_E1	100	4.43	3.33e4	1.25e3	100	0.4	3.32

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.995743
Calibration curve: -0.00213642 * x^2 + 0.961467 * x + 0.0440674
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	4.66	1.33e2	2.51e3	0.643	28.6	1.32
2	2	161111J2_04_P1_E1	1.00	4.67	1.94e2	2.89e3	0.826	-17.4	0.837
3	3	161111J2_05_P1_E1	2.00	4.66	4.01e2	2.88e3	1.77	-11.7	0.868
4	4	161111J2_06_P1_E1	5.00	4.67	9.29e2	2.84e3	4.24	-15.2	0.817
5	5	161111J2_07_P1_E1	10.0	4.67	2.40e3	2.63e3	12.1	21.4	1.14
6	6	161111J2_08_P1_E1	25.0	4.66	4.58e3	2.68e3	23.4	-6.5	0.854
7	7	161111J2_09_P1_E1	50.0	4.67	1.00e4	2.95e3	49.6	-0.9	0.849
8	8	161111J2_10_P1_E1	75.0	4.67	1.51e4	3.07e3	77.3	3.0	0.821
9	9	161111J2_11_P1_E1	100	4.66	2.07e4	3.49e3	98.6	-1.4	0.741

Compound name: PFOA
Coefficient of Determination: R^2 = 0.996931
Calibration curve: -0.0025112 * x^2 + 1.31194 * x + 0.0471482
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	4.71	5.87e2	8.45e3	0.627	25.4	1.74
2	2	161111J2_04_P1_E1	1.00	4.71	1.03e3	8.64e3	1.10	10.2	1.49
3	3	161111J2_05_P1_E1	2.00	4.70	1.64e3	9.24e3	1.66	-17.2	1.11
4	4	161111J2_06_P1_E1	5.00	4.71	3.78e3	9.36e3	3.84	-23.2	1.01
5	5	161111J2_07_P1_E1	10.0	4.72	9.98e3	9.02e3	10.7	7.2	1.38
6	6	161111J2_08_P1_E1	25.0	4.71	2.00e4	7.47e3	26.9	7.7	1.34
7	7	161111J2_09_P1_E1	50.0	4.71	4.10e4	8.76e3	49.2	-1.7	1.17
8	8	161111J2_10_P1_E1	75.0	4.71	6.01e4	9.14e3	72.8	-2.9	1.10
9	9	161111J2_11_P1_E1	100	4.71	7.58e4	8.81e3	102	1.8	1.08

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: PFNA
Correlation coefficient: r = 0.998382, r^2 = 0.996768
Calibration curve: 0.905077 * x + 0.00552082
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc.	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	5.03	3.24e2	7.26e3	0.611	22.1	1.12
2	2	161111J2_04_P1_E1	1.00	5.03	6.34e2	8.73e3	0.997	-0.3	0.908
3	3	161111J2_05_P1_E1	2.00	5.03	1.10e3	8.84e3	1.71	-14.5	0.776
4	4	161111J2_06_P1_E1	5.00	5.05	2.80e3	1.02e4	3.79	-24.2	0.687
5	5	161111J2_07_P1_E1	10.0	5.06	8.36e3	9.95e3	11.6	16.0	1.05
6	6	161111J2_08_P1_E1	25.0	5.03	1.25e4	6.61e3	26.0	4.1	0.943
7	7	161111J2_09_P1_E1	50.0	5.03	2.75e4	7.56e3	50.3	0.6	0.911
8	8	161111J2_10_P1_E1	75.0	5.03	4.10e4	7.89e3	71.8	-4.3	0.866
9	9	161111J2_11_P1_E1	100	5.05	6.43e4	8.74e3	102	1.7	0.920

Compound name: PFOS
Correlation coefficient: r = 0.985935, r^2 = 0.972067
Calibration curve: 1.25111 * x + 0.123067
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x^2, Axis trans: None

	#	Name	Std. Conc.	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	5.09	2.07e2	3.18e3	0.553	10.7	1.63
2	2	161111J2_04_P1_E1	1.00	5.10	3.67e2	3.57e3	0.927	-7.3	1.28
3	3	161111J2_05_P1_E1	2.00	5.09	6.49e2	3.92e3	1.56	-22.2	1.04
4	4	161111J2_06_P1_E1	5.00	5.11	1.33e3	3.44e3	3.77	-24.6	0.968
5	5	161111J2_07_P1_E1	10.0	5.11	3.82e3	3.38e3	11.2	11.7	1.41
6	6	161111J2_08_P1_E1	25.0	5.09	8.42e3	2.92e3	28.7	14.8	1.44
7	7	161111J2_09_P1_E1	50.0	5.09	1.21e4	2.42e3	49.9	-0.2	1.25
8	8	161111J2_10_P1_E1	75.0	5.10	2.03e4	2.48e3	81.7	9.0	1.36
9	9	161111J2_11_P1_E1	100	5.11	2.75e4	2.53e3	108	8.2	1.35

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: PFDA
Correlation coefficient: r = 0.998849, r^2 = 0.997699
Calibration curve: 1.01138 * x + -0.0247569
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	5.31	1.89e2	4.48e3	0.547	9.4	1.06
2	2	161111J2_04_P1_E1	1.00	5.32	3.61e2	4.63e3	0.988	-1.2	0.975
3	3	161111J2_05_P1_E1	2.00	5.32	7.61e2	5.52e3	1.73	-13.6	0.861
4	4	161111J2_06_P1_E1	5.00	5.33	1.52e3	4.38e3	4.31	-13.7	0.867
5	5	161111J2_07_P1_E1	10.0	5.33	3.62e3	4.24e3	10.6	6.0	1.07
6	6	161111J2_08_P1_E1	25.0	5.31	8.34e3	3.84e3	26.9	7.5	1.09
7	7	161111J2_09_P1_E1	50.0	5.32	1.26e4	2.94e3	52.8	5.7	1.07
8	8	161111J2_10_P1_E1	75.0	5.31	1.79e4	3.02e3	73.3	-2.2	0.989
9	9	161111J2_11_P1_E1	100	5.32	2.62e4	3.33e3	97.3	-2.7	0.983

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.995769
Calibration curve: -0.00383329 * x^2 + 1.1235 * x + -0.0810222
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500	5.29	6.35e1	1.27e3	0.632	26.4	1.25
2	2	161111J2_04_P1_E1	1.00	5.29	1.02e2	1.36e3	0.910	-9.0	0.938
3	3	161111J2_05_P1_E1	2.00	5.30	2.14e2	1.48e3	1.69	-15.5	0.903
4	4	161111J2_06_P1_E1	5.00	5.31	4.03e2	1.23e3	3.77	-24.6	0.819
5	5	161111J2_07_P1_E1	10.0	5.31	1.09e3	1.27e3	9.94	-0.6	1.07
6	6	161111J2_08_P1_E1	25.0	5.29	2.44e3	1.08e3	27.7	10.8	1.12
7	7	161111J2_09_P1_E1	50.0	5.30	4.06e3	1.08e3	50.6	1.1	0.939
8	8	161111J2_10_P1_E1	75.0	5.29	5.24e3	1.08e3	71.7	-4.3	0.811
9	9	161111J2_11_P1_E1	100	5.30	6.59e3	1.10e3	102	1.8	0.746

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C3-PFBA
Response Factor: 0.89422
RRF SD: 0.0909819, Relative SD: 10.1744
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	2.03	1.03e4	1.29e4	11.2	-10.3	0.802
2	2	161111J2_04_P1_E1	12.5	2.04	1.10e4	1.17e4	13.1	4.9	0.938
3	3	161111J2_05_P1_E1	12.5	2.03	1.14e4	1.19e4	13.4	7.2	0.958
4	4	161111J2_06_P1_E1	12.5	2.04	1.12e4	1.11e4	14.2	13.5	1.01
5	5	161111J2_07_P1_E1	12.5	2.04	1.08e4	1.11e4	13.6	9.0	0.974
6	6	161111J2_08_P1_E1	12.5	2.04	8.98e3	1.24e4	10.1	-19.3	0.721
7	7	161111J2_09_P1_E1	12.5	2.04	1.03e4	1.17e4	12.3	-1.7	0.879
8	8	161111J2_10_P1_E1	12.5	2.04	1.05e4	1.18e4	12.5	-0.3	0.891
9	9	161111J2_11_P1_E1	12.5	2.04	1.02e4	1.17e4	12.1	-2.8	0.869

Compound name: 13C3-PFPeA
Response Factor: 0.945444
RRF SD: 0.102116, Relative SD: 10.8009
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	3.18	1.15e4	1.41e4	10.8	-13.9	0.814
2	2	161111J2_04_P1_E1	12.5	3.19	1.26e4	1.31e4	12.7	1.5	0.960
3	3	161111J2_05_P1_E1	12.5	3.17	1.32e4	1.35e4	13.0	3.7	0.981
4	4	161111J2_06_P1_E1	12.5	3.18	1.32e4	1.23e4	14.2	13.9	1.08
5	5	161111J2_07_P1_E1	12.5	3.19	1.30e4	1.22e4	14.0	12.2	1.06
6	6	161111J2_08_P1_E1	12.5	3.18	1.06e4	1.38e4	10.1	-19.4	0.762
7	7	161111J2_09_P1_E1	12.5	3.18	1.20e4	1.25e4	12.6	1.0	0.955
8	8	161111J2_10_P1_E1	12.5	3.18	1.22e4	1.27e4	12.8	2.1	0.965
9	9	161111J2_11_P1_E1	12.5	3.18	1.17e4	1.26e4	12.4	-1.1	0.935

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C3-PFBS
Response Factor: 0.530916
RRF SD: 0.0593801, Relative SD: 11.1845
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	3.45	6.77e3	1.41e4	11.3	-9.5	0.480
2	2	161111J2_04_P1_E1	12.5	3.47	6.92e3	1.31e4	12.4	-0.7	0.527
3	3	161111J2_05_P1_E1	12.5	3.46	7.66e3	1.35e4	13.4	7.3	0.570
4	4	161111J2_06_P1_E1	12.5	3.46	7.70e3	1.23e4	14.8	18.2	0.627
5	5	161111J2_07_P1_E1	12.5	3.47	7.23e3	1.22e4	13.9	11.2	0.590
6	6	161111J2_08_P1_E1	12.5	3.46	5.91e3	1.38e4	10.1	-19.6	0.427
7	7	161111J2_09_P1_E1	12.5	3.46	6.45e3	1.25e4	12.1	-3.0	0.515
8	8	161111J2_10_P1_E1	12.5	3.46	6.63e3	1.27e4	12.3	-1.3	0.524
9	9	161111J2_11_P1_E1	12.5	3.46	6.50e3	1.26e4	12.2	-2.5	0.518

Compound name: 13C2-PFHxA
Response Factor: 0.904554
RRF SD: 0.0988189, Relative SD: 10.9246
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	5.00	3.84	4.46e3	1.41e4	4.37	-12.5	0.791
2	2	161111J2_04_P1_E1	5.00	3.84	4.84e3	1.31e4	5.09	1.8	0.921
3	3	161111J2_05_P1_E1	5.00	3.83	5.10e3	1.35e4	5.24	4.9	0.948
4	4	161111J2_06_P1_E1	5.00	3.84	5.09e3	1.23e4	5.73	14.6	1.04
5	5	161111J2_07_P1_E1	5.00	3.84	4.93e3	1.22e4	5.56	11.3	1.01
6	6	161111J2_08_P1_E1	5.00	3.84	3.97e3	1.38e4	3.96	-20.7	0.717
7	7	161111J2_09_P1_E1	5.00	3.84	4.55e3	1.25e4	5.02	0.4	0.908
8	8	161111J2_10_P1_E1	5.00	3.84	4.61e3	1.27e4	5.03	0.7	0.911
9	9	161111J2_11_P1_E1	5.00	3.85	4.53e3	1.26e4	4.98	-0.3	0.902

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C4-PFHpA
Response Factor: 0.769651
RRF SD: 0.0853478, Relative SD: 11.0892
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	4.32	9.04e3	1.41e4	10.4	-16.6	0.642
2	2	161111J2_04_P1_E1	12.5	4.33	9.91e3	1.31e4	12.3	-1.9	0.755
3	3	161111J2_05_P1_E1	12.5	4.31	1.08e4	1.35e4	13.1	4.8	0.806
4	4	161111J2_06_P1_E1	12.5	4.33	1.04e4	1.23e4	13.8	10.0	0.847
5	5	161111J2_07_P1_E1	12.5	4.32	1.05e4	1.22e4	13.9	11.1	0.855
6	6	161111J2_08_P1_E1	12.5	4.32	8.54e3	1.38e4	10.0	-19.8	0.617
7	7	161111J2_09_P1_E1	12.5	4.32	1.00e4	1.25e4	13.0	4.3	0.803
8	8	161111J2_10_P1_E1	12.5	4.33	1.04e4	1.27e4	13.3	6.6	0.821
9	9	161111J2_11_P1_E1	12.5	4.32	9.81e3	1.26e4	12.7	1.5	0.781

Compound name: 18O2-PFHxS
Response Factor: 0.275968
RRF SD: 0.0323848, Relative SD: 11.735
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	4.43	1.34e3	5.84e3	10.4	-16.6	0.230
2	2	161111J2_04_P1_E1	12.5	4.44	1.41e3	5.10e3	12.6	0.5	0.277
3	3	161111J2_05_P1_E1	12.5	4.43	1.59e3	5.19e3	13.9	10.9	0.306
4	4	161111J2_06_P1_E1	12.5	4.44	1.48e3	4.72e3	14.2	13.5	0.313
5	5	161111J2_07_P1_E1	12.5	4.44	1.46e3	4.92e3	13.4	7.4	0.296
6	6	161111J2_08_P1_E1	12.5	4.44	1.22e3	5.55e3	9.93	-20.5	0.219
7	7	161111J2_09_P1_E1	12.5	4.43	1.41e3	4.80e3	13.4	6.8	0.295
8	8	161111J2_10_P1_E1	12.5	4.44	1.37e3	4.97e3	12.4	-0.4	0.275
9	9	161111J2_11_P1_E1	12.5	4.43	1.25e3	4.61e3	12.3	-1.5	0.272

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C2-6:2 FTS
Response Factor: 0.218688
RRF SD: 0.0312976, Relative SD: 14.3115
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	4.66	2.51e3	1.41e4	10.2	-18.7	0.178
2	2	161111J2_04_P1_E1	12.5	4.66	2.89e3	1.39e4	11.9	-4.9	0.208
3	3	161111J2_05_P1_E1	12.5	4.66	2.88e3	1.30e4	12.7	1.6	0.222
4	4	161111J2_06_P1_E1	12.5	4.67	2.84e3	1.35e4	12.0	-3.9	0.210
5	5	161111J2_07_P1_E1	12.5	4.67	2.63e3	1.28e4	11.8	-5.6	0.206
6	6	161111J2_08_P1_E1	12.5	4.66	2.68e3	1.42e4	10.8	-14.0	0.188
7	7	161111J2_09_P1_E1	12.5	4.66	2.95e3	1.26e4	13.4	7.0	0.234
8	8	161111J2_10_P1_E1	12.5	4.67	3.07e3	1.30e4	13.5	8.3	0.237
9	9	161111J2_11_P1_E1	12.5	4.66	3.49e3	1.23e4	16.3	30.1	0.284

Compound name: 13C2-PFOA
Response Factor: 0.663371
RRF SD: 0.0669504, Relative SD: 10.0924
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	4.71	8.45e3	1.41e4	11.3	-9.7	0.599
2	2	161111J2_04_P1_E1	12.5	4.71	8.64e3	1.39e4	11.7	-6.4	0.621
3	3	161111J2_05_P1_E1	12.5	4.70	9.24e3	1.30e4	13.4	7.3	0.712
4	4	161111J2_06_P1_E1	12.5	4.71	9.36e3	1.35e4	13.0	4.2	0.691
5	5	161111J2_07_P1_E1	12.5	4.72	9.02e3	1.28e4	13.3	6.6	0.707
6	6	161111J2_08_P1_E1	12.5	4.71	7.47e3	1.42e4	9.88	-21.0	0.524
7	7	161111J2_09_P1_E1	12.5	4.71	8.76e3	1.26e4	13.1	4.6	0.694
8	8	161111J2_10_P1_E1	12.5	4.71	9.14e3	1.30e4	13.3	6.2	0.704
9	9	161111J2_11_P1_E1	12.5	4.71	8.81e3	1.23e4	13.5	8.1	0.717

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C5-PFNA
Response Factor: 1.01945
RRF SD: 0.110532, Relative SD: 10.8423
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.02	7.26e3	8.03e3	11.1	-11.3	0.904
2	2	161111J2_04_P1_E1	12.5	5.03	8.73e3	7.82e3	13.7	9.5	1.12
3	3	161111J2_05_P1_E1	12.5	5.03	8.84e3	8.19e3	13.2	5.8	1.08
4	4	161111J2_06_P1_E1	12.5	5.05	1.02e4	8.40e3	14.9	19.1	1.21
5	5	161111J2_07_P1_E1	12.5	5.05	9.95e3	1.00e4	12.2	-2.5	0.994
6	6	161111J2_08_P1_E1	12.5	5.03	6.61e3	7.86e3	10.3	-17.5	0.841
7	7	161111J2_09_P1_E1	12.5	5.03	7.56e3	7.38e3	12.6	0.5	1.02
8	8	161111J2_10_P1_E1	12.5	5.03	7.89e3	7.77e3	12.5	-0.4	1.02
9	9	161111J2_11_P1_E1	12.5	5.04	8.74e3	8.86e3	12.1	-3.2	0.987

Compound name: 13C8-PFOS
Response Factor: 0.92134
RRF SD: 0.0963018, Relative SD: 10.4524
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.09	3.18e3	4.04e3	10.7	-14.7	0.786
2	2	161111J2_04_P1_E1	12.5	5.10	3.57e3	3.65e3	13.3	6.3	0.979
3	3	161111J2_05_P1_E1	12.5	5.09	3.92e3	3.72e3	14.3	14.3	1.05
4	4	161111J2_06_P1_E1	12.5	5.11	3.44e3	3.47e3	13.5	7.6	0.991
5	5	161111J2_07_P1_E1	12.5	5.11	3.38e3	3.51e3	13.1	4.6	0.963
6	6	161111J2_08_P1_E1	12.5	5.09	2.92e3	3.88e3	10.2	-18.2	0.753
7	7	161111J2_09_P1_E1	12.5	5.09	2.42e3	2.58e3	12.7	1.9	0.939
8	8	161111J2_10_P1_E1	12.5	5.09	2.48e3	2.72e3	12.4	-1.1	0.912
9	9	161111J2_11_P1_E1	12.5	5.10	2.53e3	2.77e3	12.4	-0.7	0.915

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C2-PFDA
Response Factor: 0.886754
RRF SD: 0.0917341, Relative SD: 10.3449
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.31	4.48e3	5.57e3	11.3	-9.3	0.805
2	2	161111J2_04_P1_E1	12.5	5.32	4.63e3	4.96e3	13.2	5.5	0.935
3	3	161111J2_05_P1_E1	12.5	5.32	5.52e3	5.51e3	14.1	13.0	1.00
4	4	161111J2_06_P1_E1	12.5	5.33	4.38e3	4.37e3	14.1	13.1	1.00
5	5	161111J2_07_P1_E1	12.5	5.32	4.24e3	4.61e3	13.0	3.6	0.919
6	6	161111J2_08_P1_E1	12.5	5.31	3.84e3	5.31e3	10.2	-18.5	0.722
7	7	161111J2_09_P1_E1	12.5	5.32	2.94e3	3.32e3	12.5	-0.3	0.884
8	8	161111J2_10_P1_E1	12.5	5.31	3.02e3	3.63e3	11.7	-6.4	0.830
9	9	161111J2_11_P1_E1	12.5	5.32	3.33e3	3.79e3	12.4	-0.8	0.880

Compound name: 13C2-8:2 FTS
Response Factor: 0.271622
RRF SD: 0.0363065, Relative SD: 13.3666
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.29	1.27e3	5.57e3	10.5	-16.3	0.227
2	2	161111J2_04_P1_E1	12.5	5.29	1.36e3	4.96e3	12.6	0.9	0.274
3	3	161111J2_05_P1_E1	12.5	5.30	1.48e3	5.51e3	12.4	-1.1	0.269
4	4	161111J2_06_P1_E1	12.5	5.31	1.23e3	4.37e3	13.0	3.6	0.281
5	5	161111J2_07_P1_E1	12.5	5.31	1.27e3	4.61e3	12.7	1.5	0.276
6	6	161111J2_08_P1_E1	12.5	5.29	1.08e3	5.31e3	9.39	-24.9	0.204
7	7	161111J2_09_P1_E1	12.5	5.29	1.08e3	3.32e3	15.0	19.7	0.325
8	8	161111J2_10_P1_E1	12.5	5.29	1.08e3	3.63e3	13.7	9.2	0.297
9	9	161111J2_11_P1_E1	12.5	5.30	1.10e3	3.79e3	13.4	7.3	0.291

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C4-PFBA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	2.03	1.29e4	1.29e4	12.5	0.0	1.00
2	2	161111J2_04_P1_E1	12.5	2.04	1.17e4	1.17e4	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	2.03	1.19e4	1.19e4	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	2.03	1.11e4	1.11e4	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	2.03	1.11e4	1.11e4	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	2.04	1.24e4	1.24e4	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	2.04	1.17e4	1.17e4	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	2.04	1.18e4	1.18e4	12.5	0.0	1.00
9	9	161111J2_11_P1_E1	12.5	2.04	1.17e4	1.17e4	12.5	0.0	1.00

Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	3.83	1.41e4	1.41e4	12.5	0.0	1.00
2	2	161111J2_04_P1_E1	12.5	3.84	1.31e4	1.31e4	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	3.83	1.35e4	1.35e4	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	3.84	1.23e4	1.23e4	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	3.84	1.22e4	1.22e4	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	3.84	1.38e4	1.38e4	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	3.83	1.25e4	1.25e4	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	3.84	1.27e4	1.27e4	12.5	0.0	1.00
9	9	161111J2_11_P1_E1	12.5	3.85	1.26e4	1.26e4	12.5	0.0	1.00

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	4.43	5.84e3	5.84e3	12.5	0.0	1.00
2	2	161111J2_04_P1_E1	12.5	4.43	5.10e3	5.10e3	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	4.43	5.19e3	5.19e3	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	4.44	4.72e3	4.72e3	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	4.44	4.92e3	4.92e3	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	4.43	5.55e3	5.55e3	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	4.43	4.80e3	4.80e3	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	4.44	4.97e3	4.97e3	12.5	0.0	1.00
9	9	161111J2_11_P1_E1	12.5	4.43	4.61e3	4.61e3	12.5	0.0	1.00

Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	4.70	1.41e4	1.41e4	12.5	0.0	1.00
2	2	161111J2_04_P1_E1	12.5	4.71	1.39e4	1.39e4	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	4.70	1.30e4	1.30e4	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	4.71	1.35e4	1.35e4	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	4.72	1.28e4	1.28e4	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	4.71	1.42e4	1.42e4	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	4.71	1.26e4	1.26e4	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	4.71	1.30e4	1.30e4	12.5	0.0	1.00
9	9	161111J2_11_P1_E1	12.5	4.71	1.23e4	1.23e4	12.5	0.0	1.00

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.09	4.04e3	4.04e3	12.5	-0.0	1.00
2	2	161111J2_04_P1_E1	12.5	5.09	3.65e3	3.65e3	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	5.09	3.72e3	3.72e3	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	5.10	3.47e3	3.47e3	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	5.11	3.51e3	3.51e3	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	5.08	3.88e3	3.88e3	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	5.09	2.58e3	2.58e3	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	5.09	2.72e3	2.72e3	12.5	0.0	1.00
9	9	161111J2_11_P1_E1	12.5	5.10	2.77e3	2.77e3	12.5	0.0	1.00

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.02	8.03e3	8.03e3	12.5	0.0	1.00
2	2	161111J2_04_P1_E1	12.5	5.03	7.82e3	7.82e3	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	5.03	8.19e3	8.19e3	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	5.04	8.40e3	8.40e3	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	5.05	1.00e4	1.00e4	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	5.03	7.86e3	7.86e3	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	5.03	7.38e3	7.38e3	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	5.03	7.77e3	7.77e3	12.5	0.0	1.00
9	9	161111J2_11_P1_E1	12.5	5.05	8.86e3	8.86e3	12.5	0.0	1.00

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	12.5	5.30	5.57e3	5.57e3	12.5	0.0	1.00
2	2	161111J2_04_P1_E1	12.5	5.31	4.96e3	4.96e3	12.5	0.0	1.00
3	3	161111J2_05_P1_E1	12.5	5.32	5.51e3	5.51e3	12.5	0.0	1.00
4	4	161111J2_06_P1_E1	12.5	5.33	4.37e3	4.37e3	12.5	0.0	1.00
5	5	161111J2_07_P1_E1	12.5	5.32	4.61e3	4.61e3	12.5	0.0	1.00
6	6	161111J2_08_P1_E1	12.5	5.31	5.31e3	5.31e3	12.5	0.0	1.00
7	7	161111J2_09_P1_E1	12.5	5.31	3.32e3	3.32e3	12.5	0.0	1.00
8	8	161111J2_10_P1_E1	12.5	5.31	3.63e3	3.63e3	12.5	-0.0	1.00
9	9	161111J2_11_P1_E1	12.5	5.32	3.79e3	3.79e3	12.5	0.0	1.00

Compound name: Total PFBS
Coefficient of Determination: R^2 = 0.977505
Calibration curve: 0.00122129 * x^2 + 0.743308 * x + 0.145497
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500			6.77e3	0.529		
2	2	161111J2_04_P1_E1	1.00			6.92e3	0.988		
3	3	161111J2_05_P1_E1	2.00			7.66e3	1.66		
4	4	161111J2_06_P1_E1	5.00			7.70e3	3.90		
5	5	161111J2_07_P1_E1	10.0			7.23e3	11.6		
6	6	161111J2_08_P1_E1	25.0			5.91e3	29.6		
7	7	161111J2_09_P1_E1	50.0			6.45e3	53.1		
8	8	161111J2_10_P1_E1	75.0			6.63e3	75.3		
9	9	161111J2_11_P1_E1	100			6.50e3	93.1		

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: Total PFHxS
Coefficient of Determination: R^2 = 0.998167
Calibration curve: 0.00081896 * x^2 + 3.22284 * x + 0.0419742
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500			1.34e3	0.648		
2	2	161111J2_04_P1_E1	1.00			1.41e3	1.02		
3	3	161111J2_05_P1_E1	2.00			1.59e3	1.65		
4	4	161111J2_06_P1_E1	5.00			1.48e3	3.91		
5	5	161111J2_07_P1_E1	10.0			1.46e3	10.2		
6	6	161111J2_08_P1_E1	25.0			1.22e3	26.6		
7	7	161111J2_09_P1_E1	50.0			1.41e3	50.3		
8	8	161111J2_10_P1_E1	75.0			1.37e3	73.8		
9	9	161111J2_11_P1_E1	100			1.25e3	100		

Compound name: Total PFOA
Coefficient of Determination: R^2 = 0.996931
Calibration curve: -0.0025112 * x^2 + 1.31194 * x + 0.0471482
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500			8.45e3	0.627		
2	2	161111J2_04_P1_E1	1.00			8.64e3	1.19		
3	3	161111J2_05_P1_E1	2.00			9.24e3	1.66		
4	4	161111J2_06_P1_E1	5.00			9.36e3	3.84		
5	5	161111J2_07_P1_E1	10.0			9.02e3	10.7		
6	6	161111J2_08_P1_E1	25.0			7.47e3	27.0		
7	7	161111J2_09_P1_E1	50.0			8.76e3	49.2		
8	8	161111J2_10_P1_E1	75.0			9.14e3	72.8		
9	9	161111J2_11_P1_E1	100			8.81e3	102		

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:53:42 Pacific Standard Time

Compound name: Total PFOS
Correlation coefficient: r = 0.985935, r^2 = 0.972067
Calibration curve: 1.25111 * x + 0.123067
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x^2, Axis trans: None

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161111J2_03_P1_E1	0.500			3.18e3	0.553		
2	2	161111J2_04_P1_E1	1.00			3.57e3	0.927		
3	3	161111J2_05_P1_E1	2.00			3.92e3	1.56		
4	4	161111J2_06_P1_E1	5.00			3.44e3	3.77		
5	5	161111J2_07_P1_E1	10.0			3.38e3	11.2		
6	6	161111J2_08_P1_E1	25.0			2.92e3	28.7		
7	7	161111J2_09_P1_E1	50.0			2.42e3	50.0		
8	8	161111J2_10_P1_E1	75.0			2.48e3	81.9		
9	9	161111J2_11_P1_E1	100			2.53e3	108		

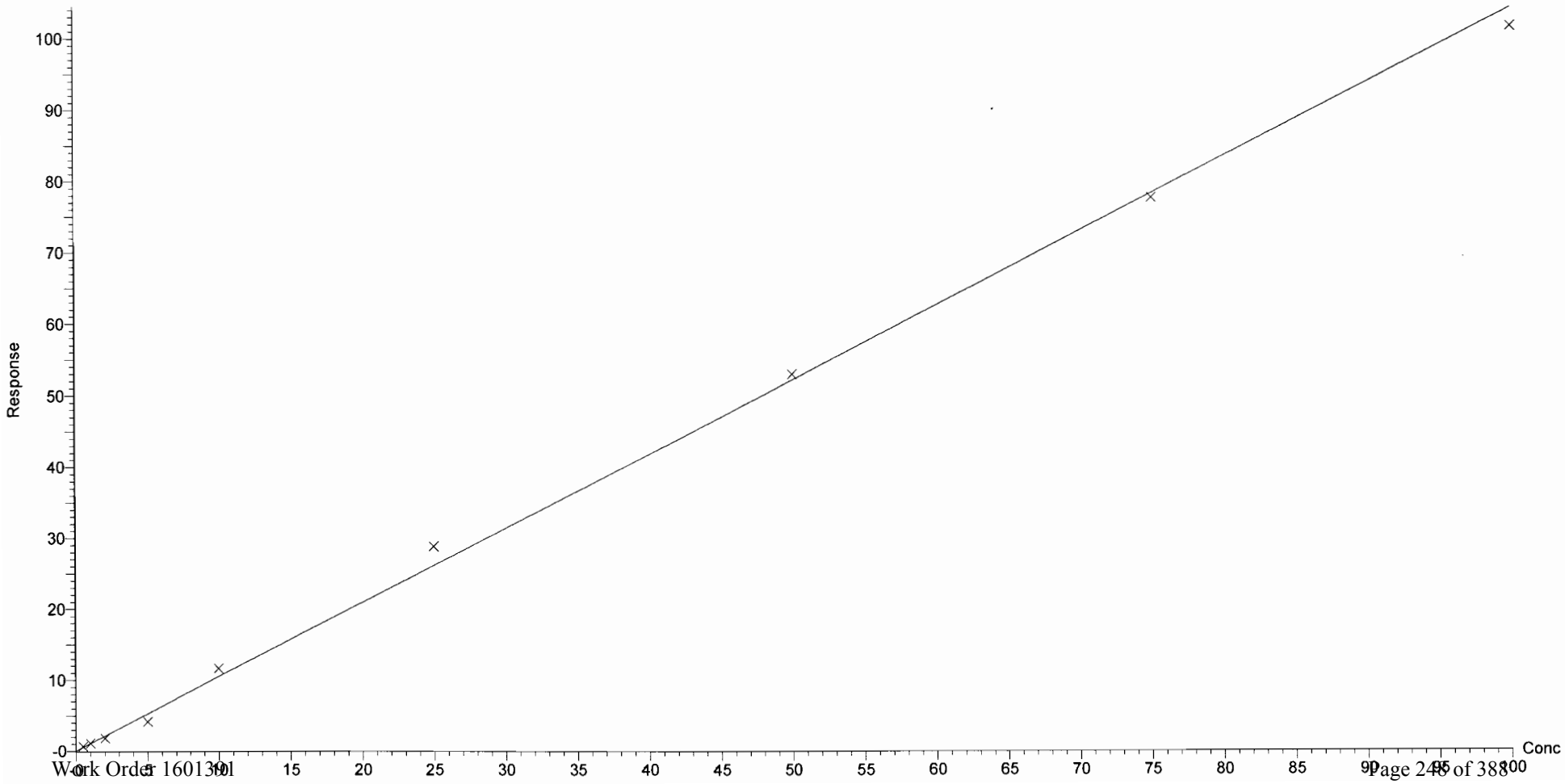
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Compound name: PFBA
Correlation coefficient: r = 0.998498, r^2 = 0.996999
Calibration curve: 1.04509 * x + 0.0382703
Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

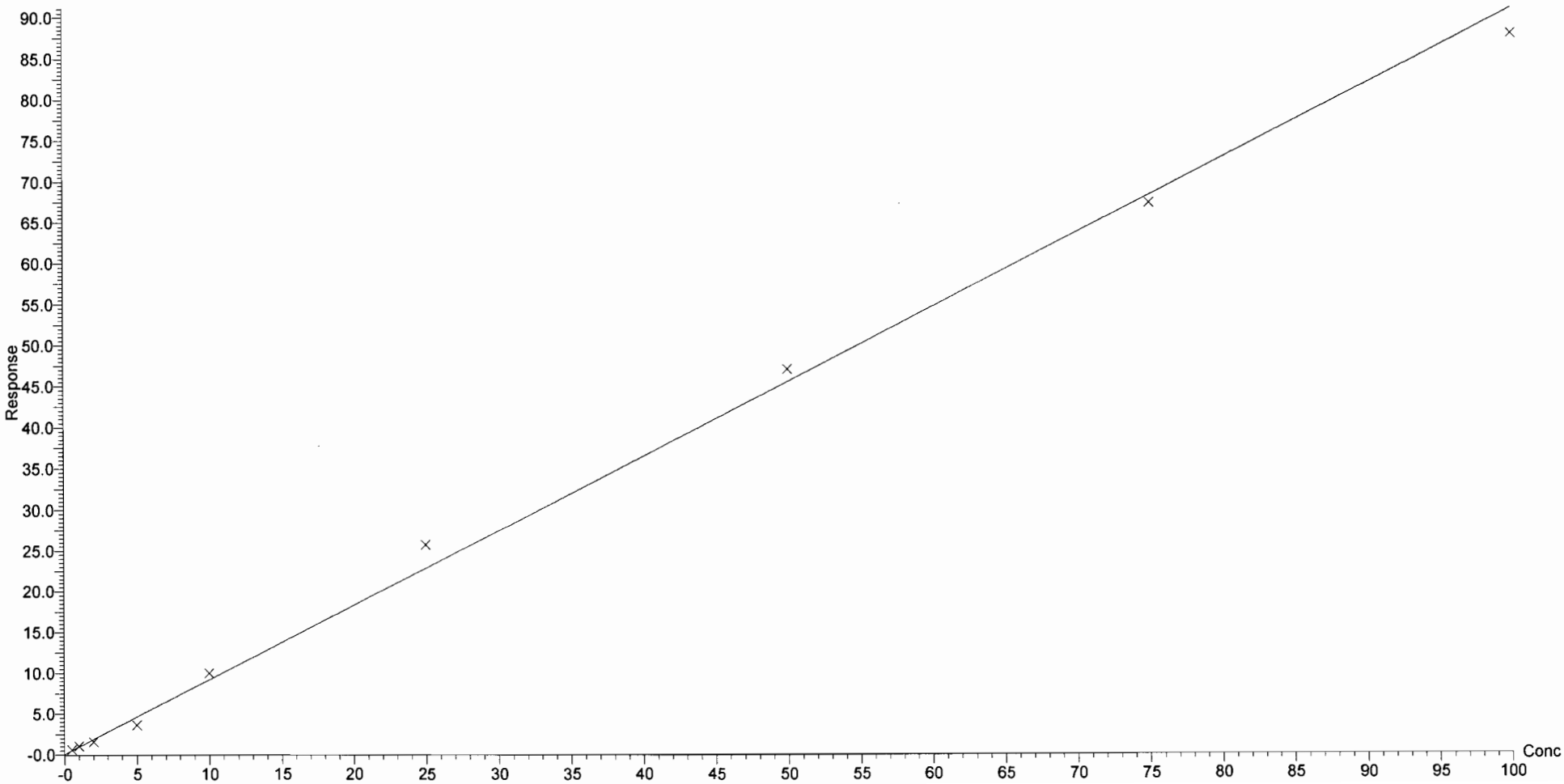


Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

Compound name: PFPeA
Correlation coefficient: r = 0.998036, r^2 = 0.996076
Calibration curve: 0.910461 * x + 0.0566694
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

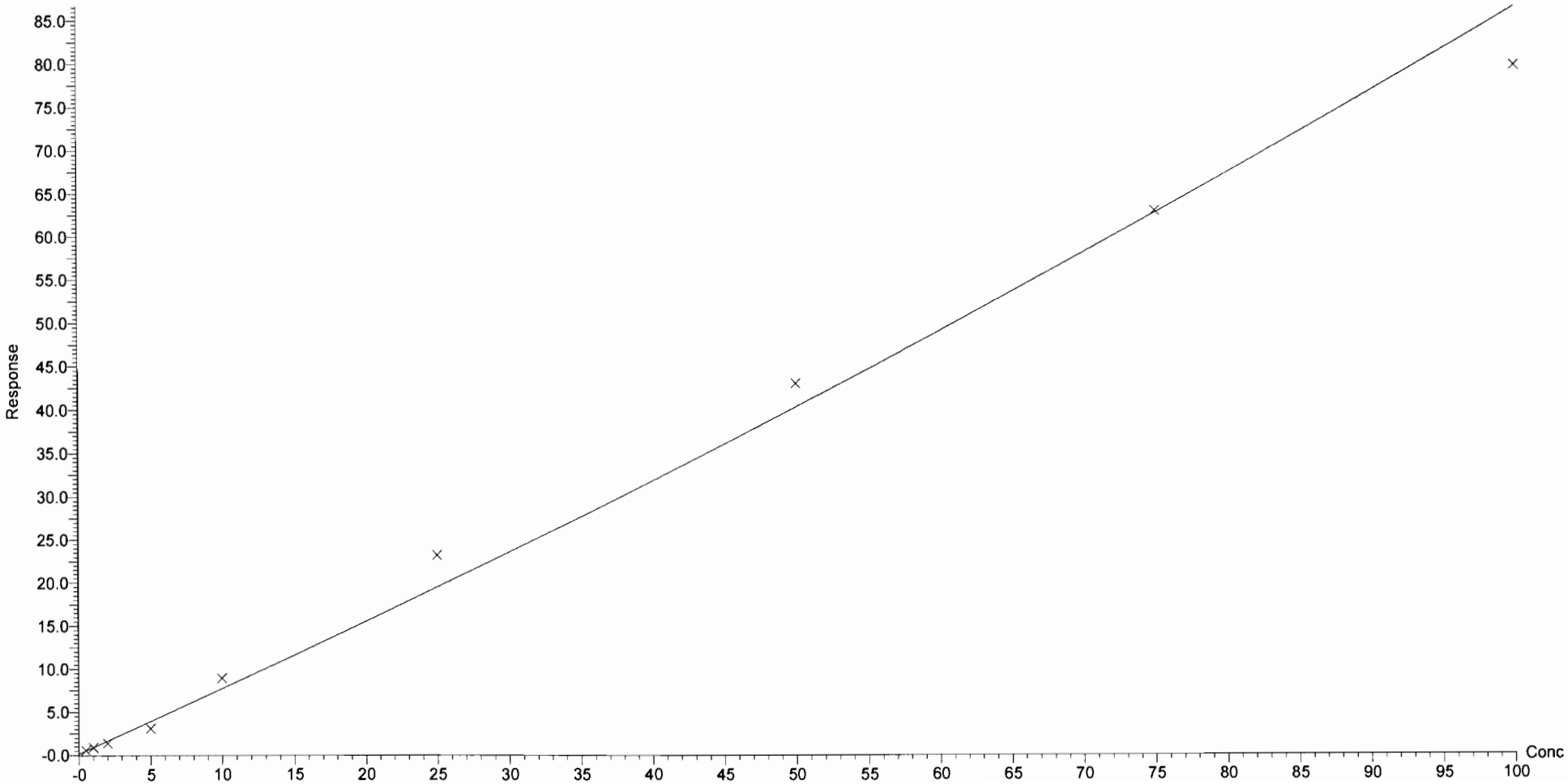


Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

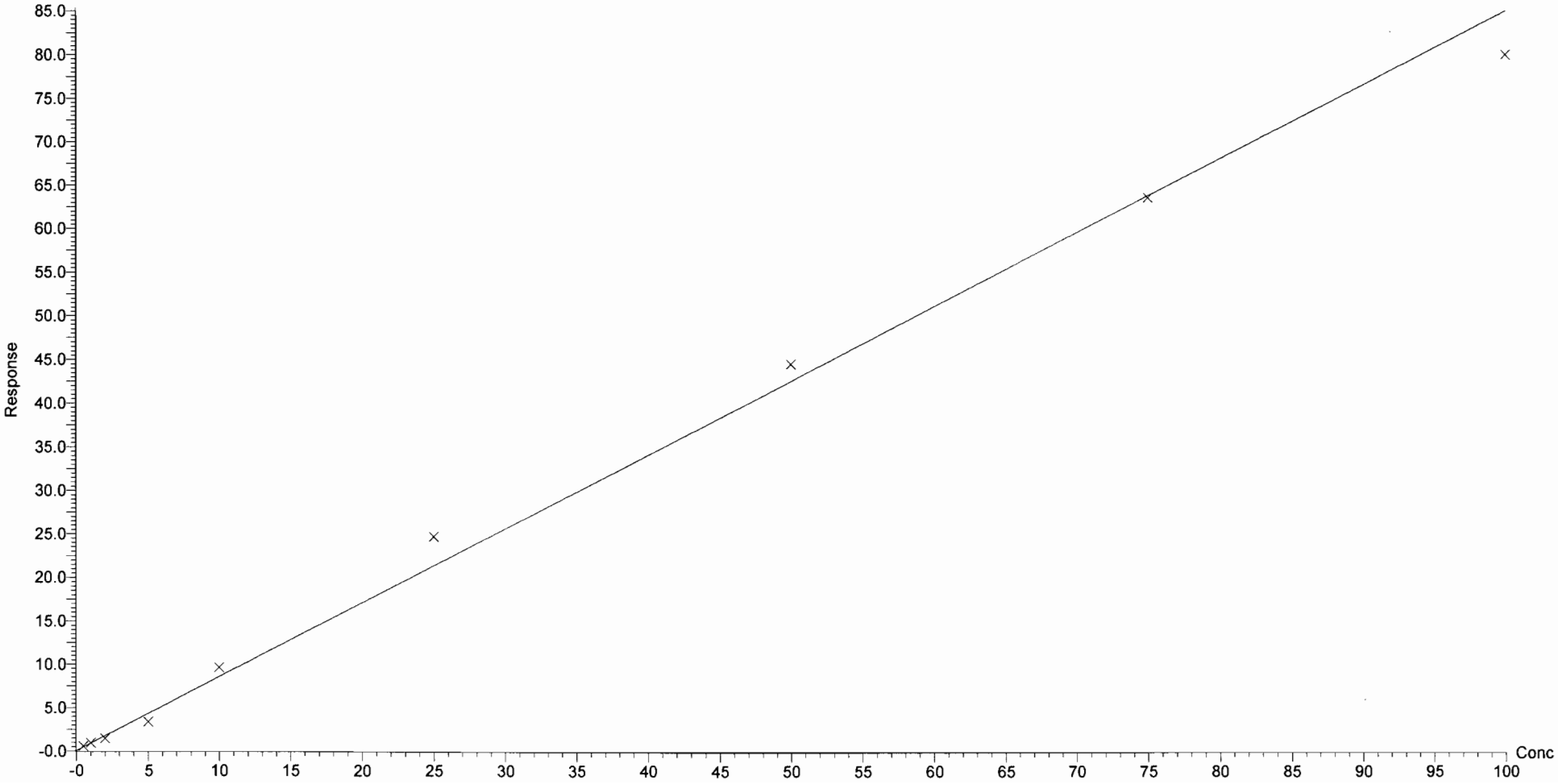
Compound name: PFBS
Coefficient of Determination: R^2 = 0.977505
Calibration curve: 0.00122129 * x^2 + 0.743308 * x + 0.145497
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

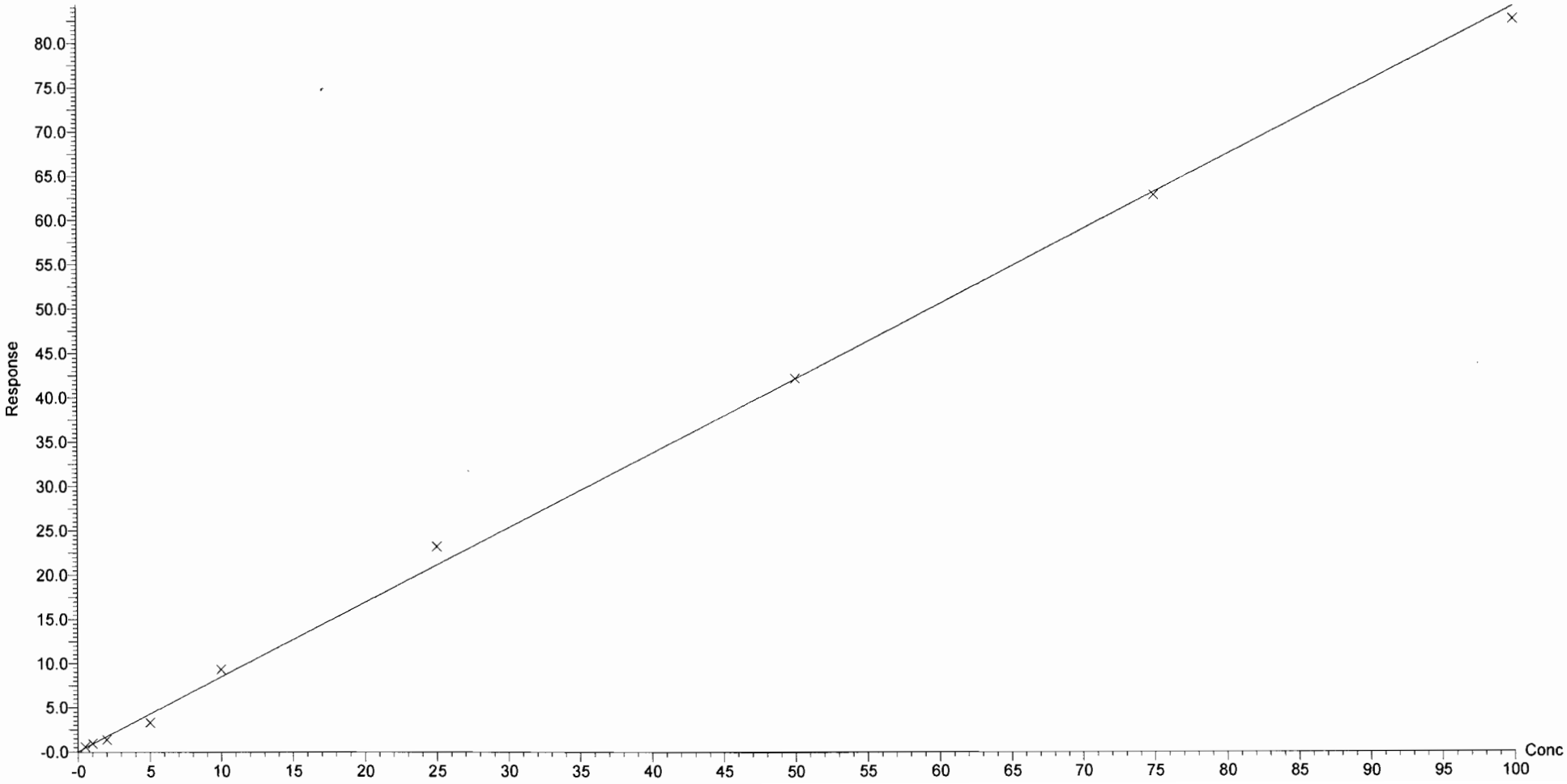
Compound name: PFHxA
Correlation coefficient: r = 0.996921, r^2 = 0.993852
Calibration curve: 0.852369 * x + 0.067677
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

Compound name: PFHpA
Correlation coefficient: r = 0.998500, r^2 = 0.997002
Calibration curve: 0.842904 * x + 0.0395603
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

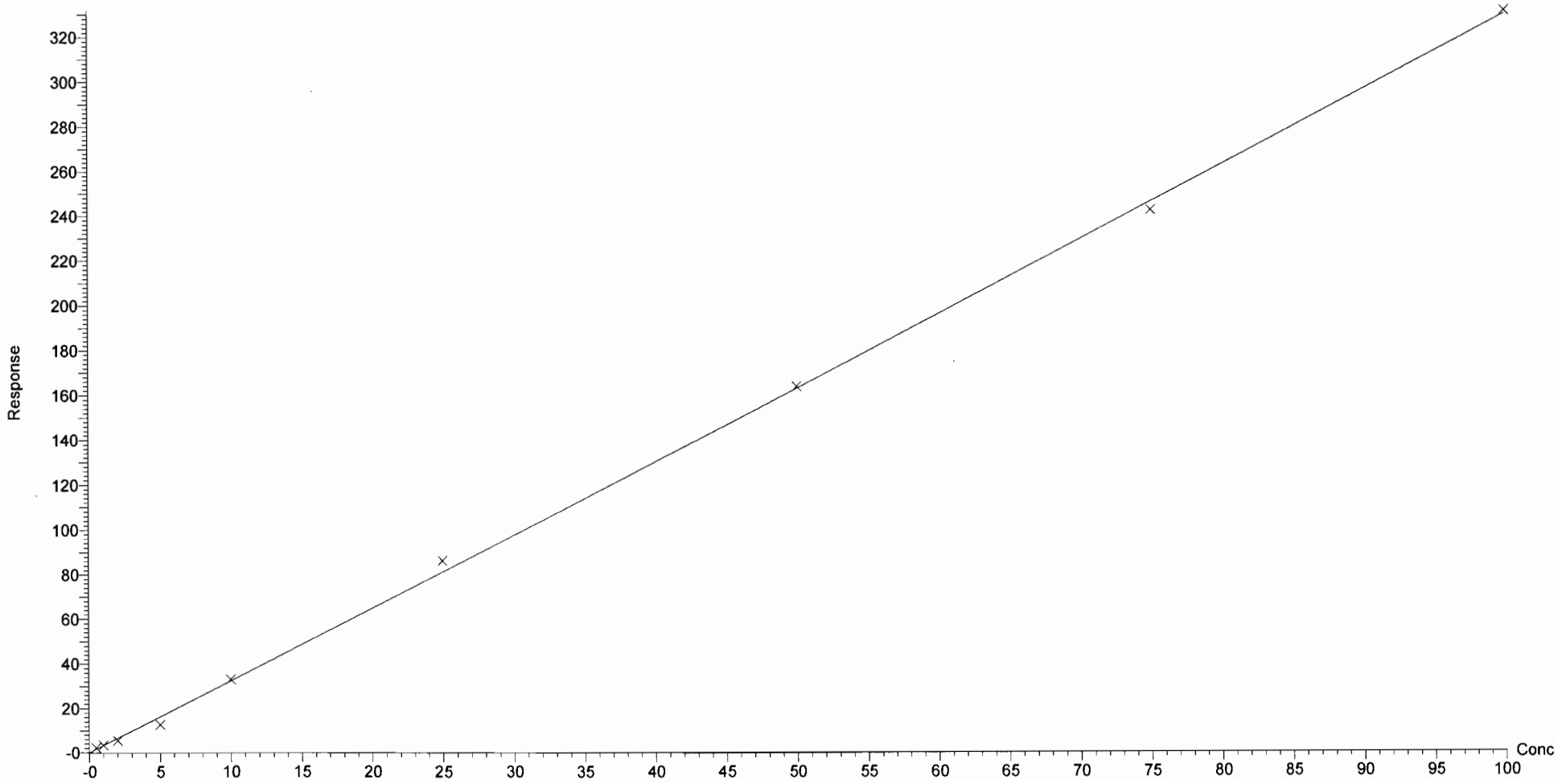


Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

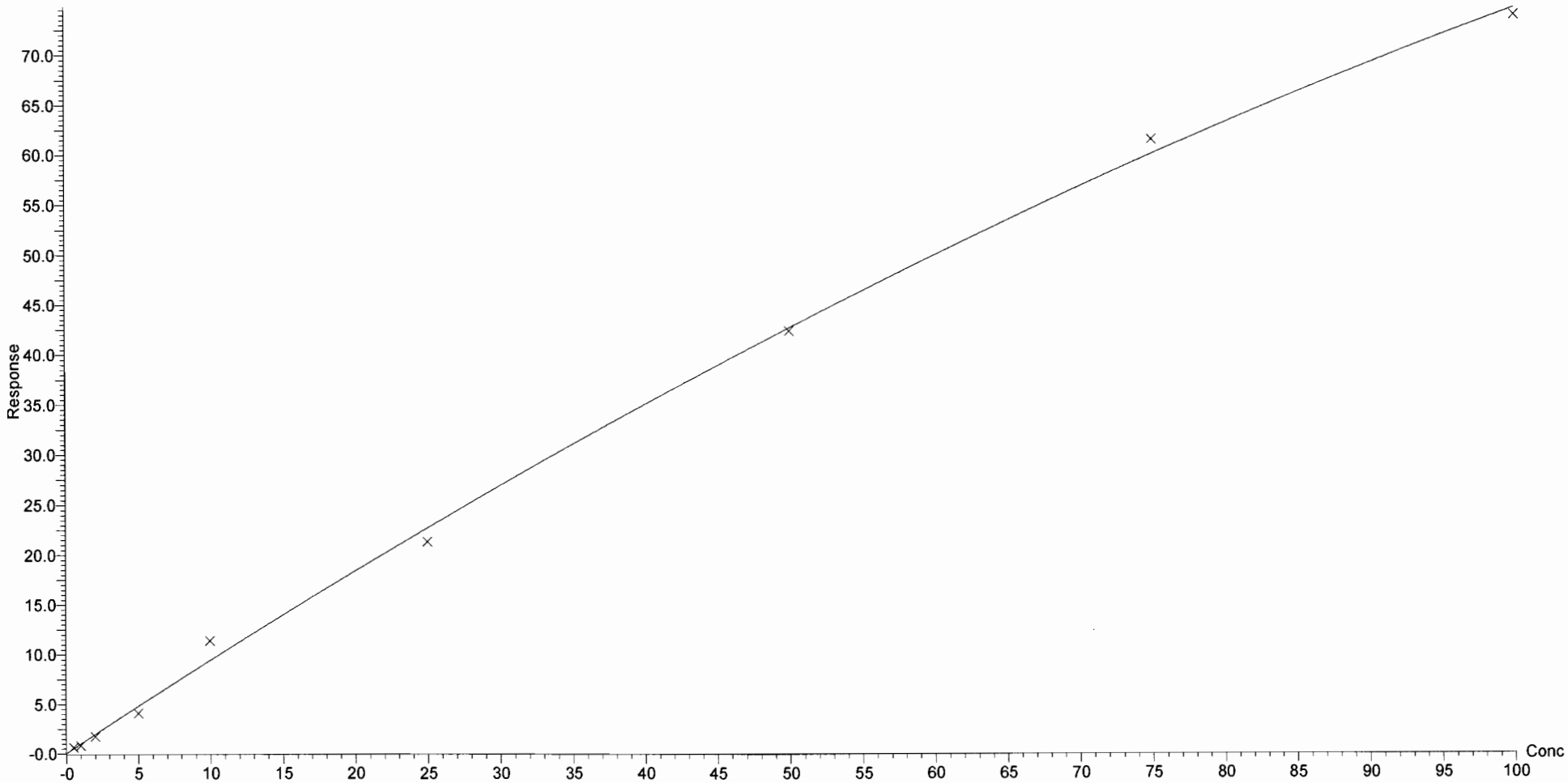
Compound name: PFHxS
Coefficient of Determination: R^2 = 0.998167
Calibration curve: 0.00081896 * x^2 + 3.22284 * x + 0.0419742
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

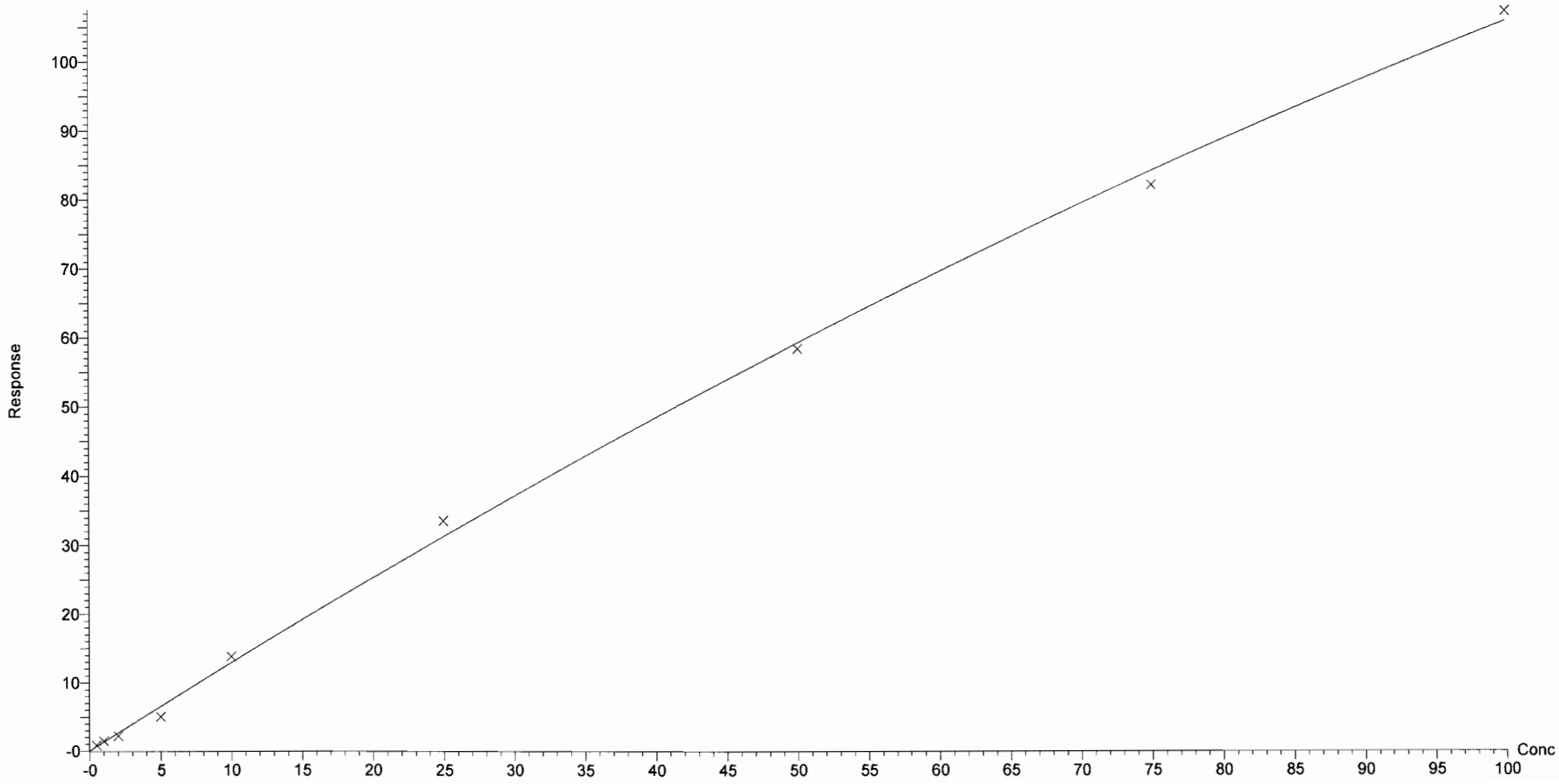
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.995743
Calibration curve: -0.00213642 * x^2 + 0.961467 * x + 0.0440674
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

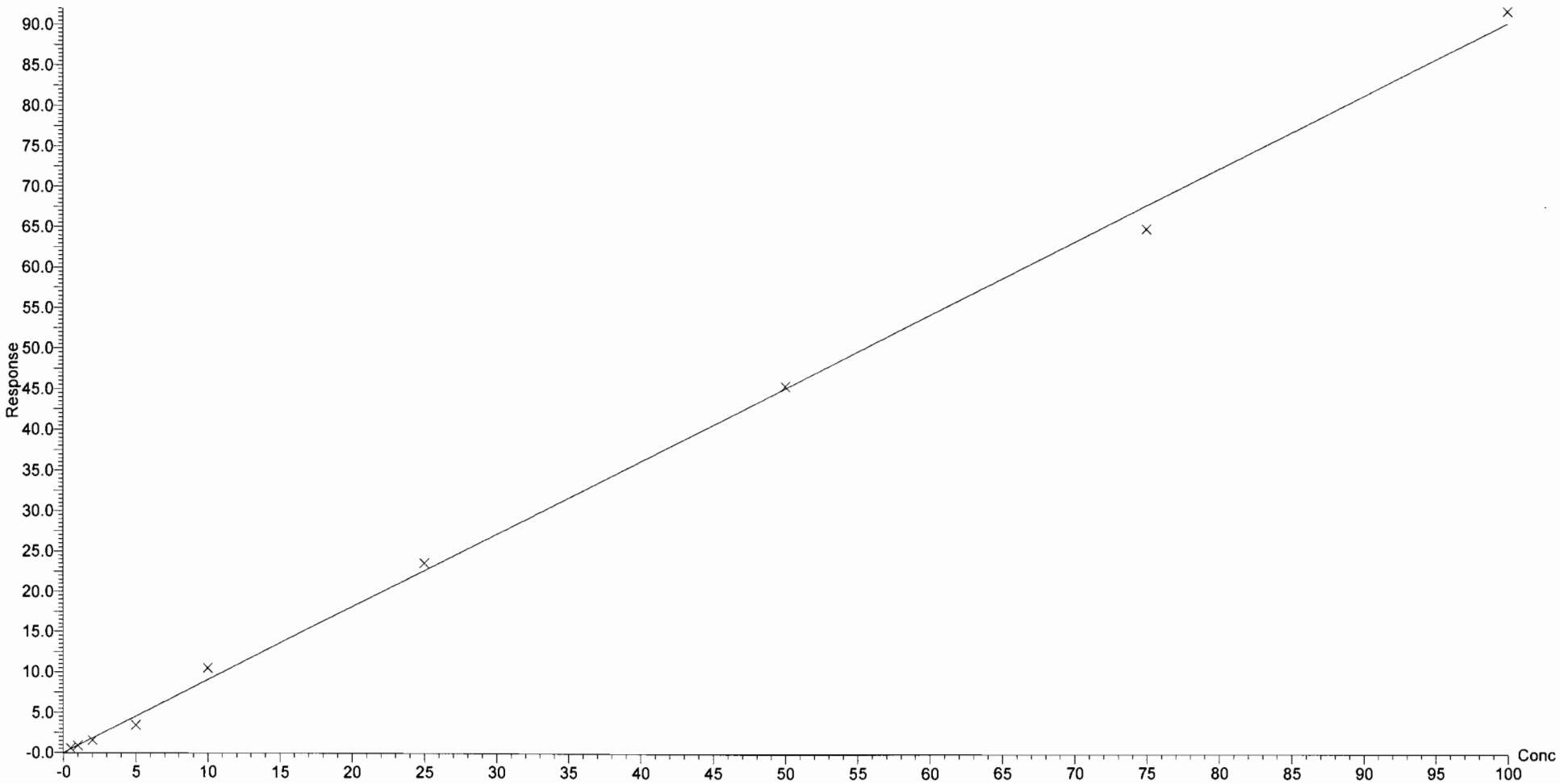
Compound name: PFOA
Coefficient of Determination: R^2 = 0.996931
Calibration curve: -0.0025112 * x^2 + 1.31194 * x + 0.0471482
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

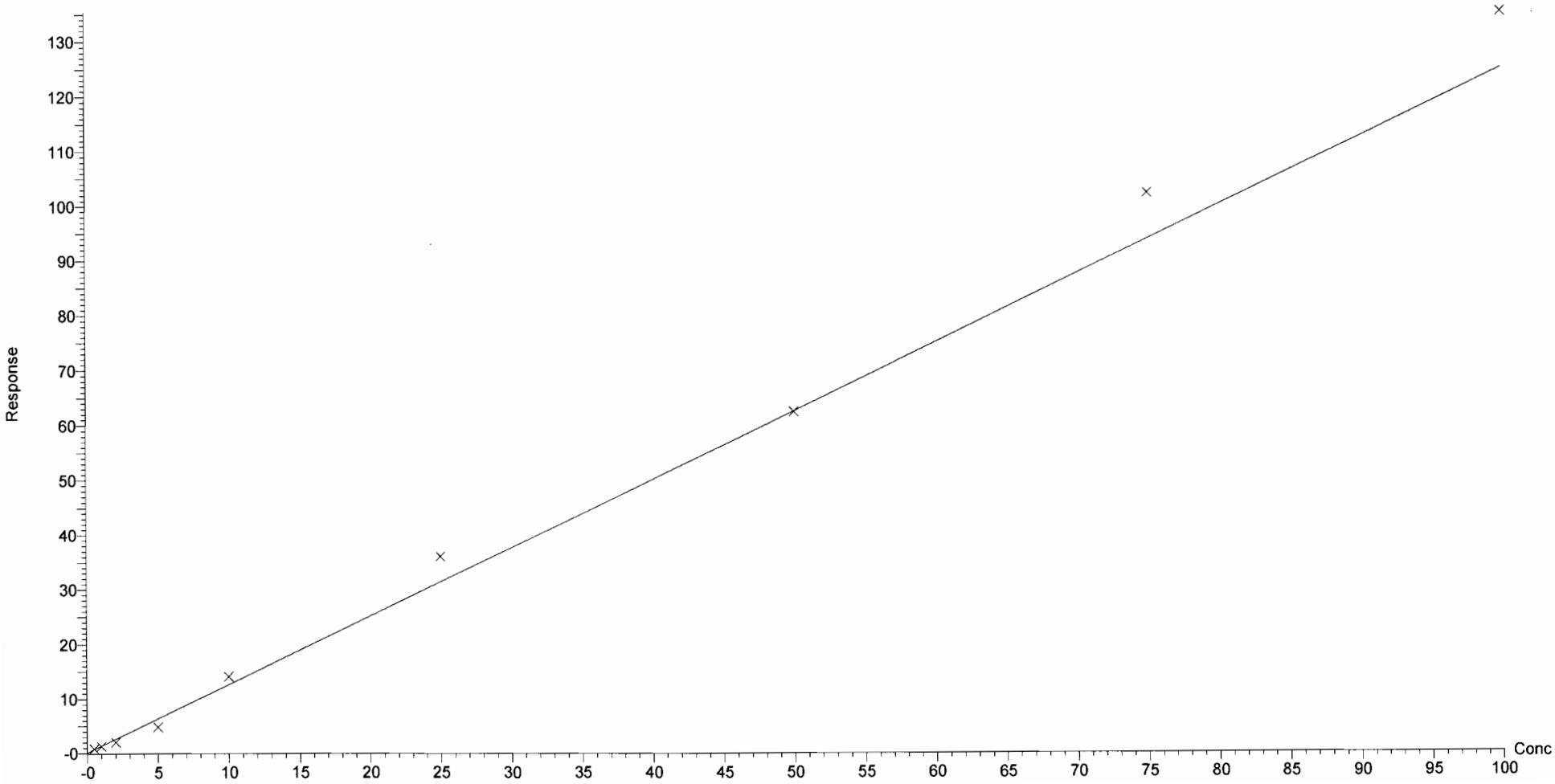
Compound name: PFNA
Correlation coefficient: r = 0.998382, r^2 = 0.996768
Calibration curve: 0.905077 * x + 0.00552082
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

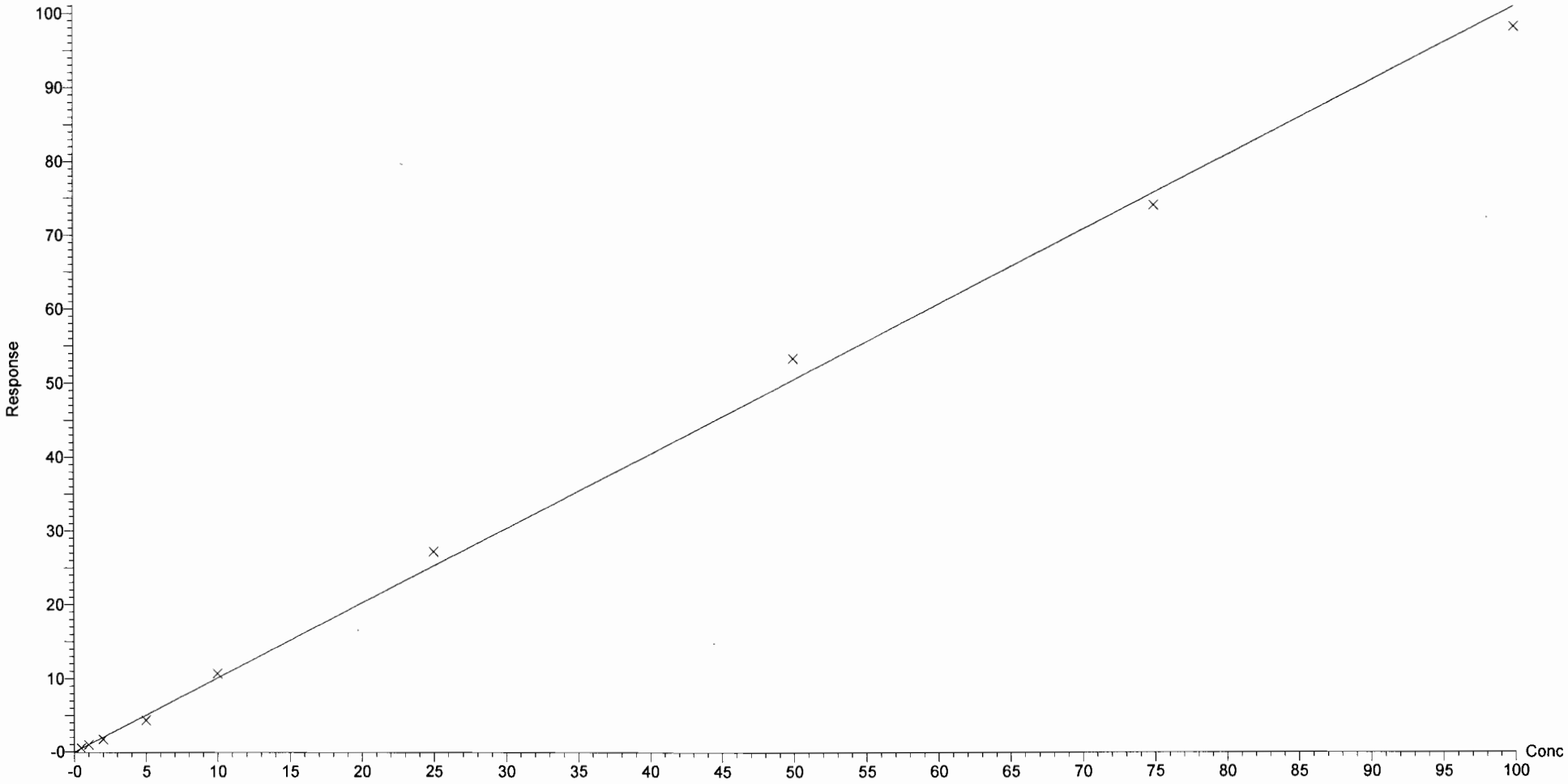
Compound name: PFOS
Correlation coefficient: r = 0.985935, r^2 = 0.972067
Calibration curve: 1.25111 * x + 0.123067
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x^2, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

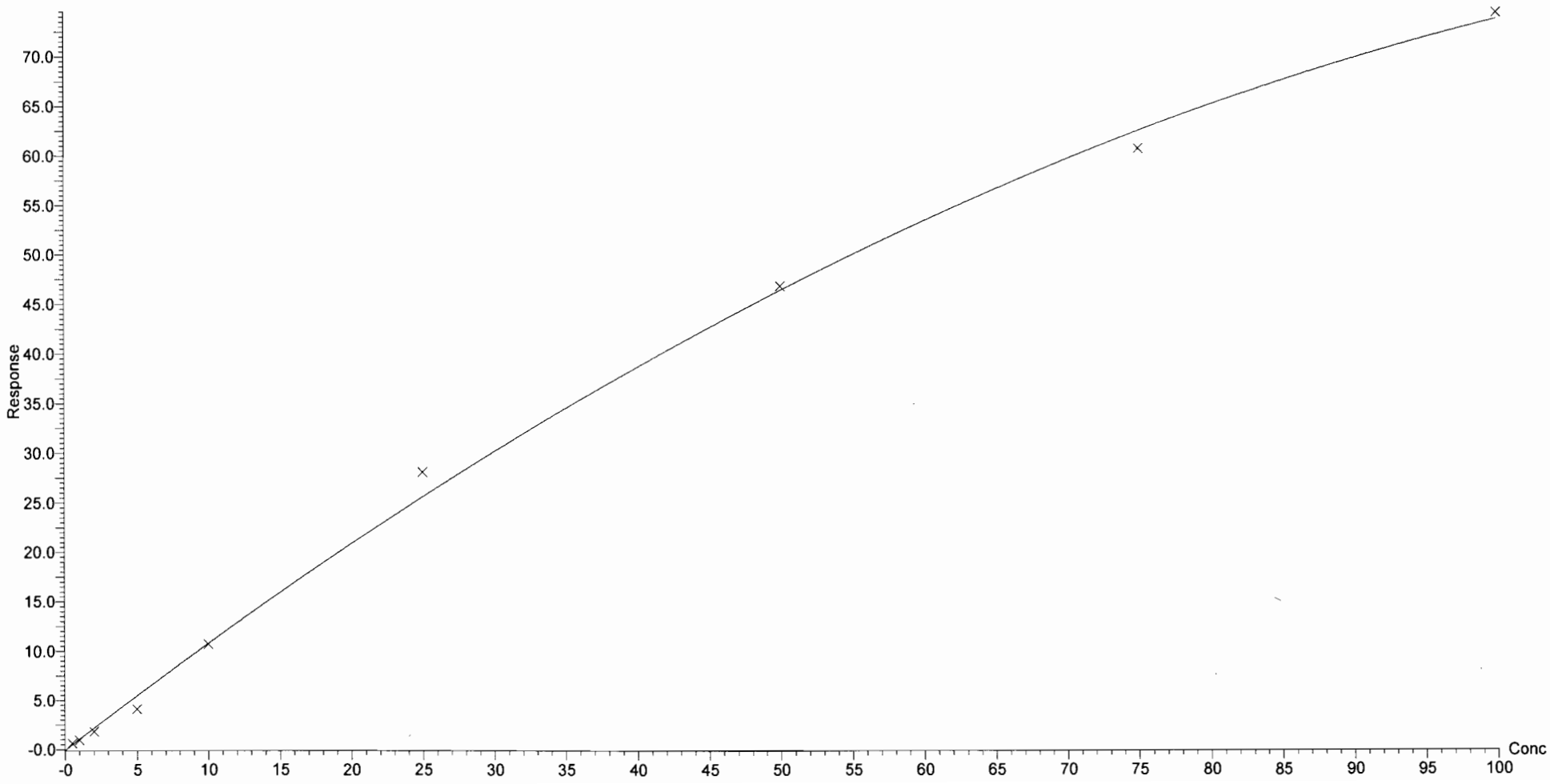
Compound name: PFDA
Correlation coefficient: r = 0.998849, r^2 = 0.997699
Calibration curve: 1.01138 * x + -0.0247569
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:54:20 Pacific Standard Time

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.995769
Calibration curve: -0.00383329 * x^2 + 1.1235 * x + -0.0810222
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Printing Time: 10:38:19
Printing Date: Saturday, November 12, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161111J2_01	11/11/2016 16:27:18	IPA	IPA
2	161111J2_02	11/11/2016 16:39:32	ST161111J2-1 PFC CS(-2)16K1114	PFC CS(-2)16K1114 A
3	161111J2_03	11/11/2016 16:51:46	ST161111J2-2 PFC CS(-1) 16K1115	PFC CS(-1) 16K1115 A
4	161111J2_04	11/11/2016 17:04:00	ST161111J2-3 PFC CS0 16K1116	PFC CS0 16K1116 A
5	161111J2_05	11/11/2016 17:16:11	ST161111J2-4 PFC CS1 16K1117	PFC CS1 16K1117 A
6	161111J2_06	11/11/2016 17:28:26	ST161111J2-5 PFC CS2 16K1118	PFC CS2 16K1118 A
7	161111J2_07	11/11/2016 17:40:40	ST161111J2-6 PFC CS3 16K1119	PFC CS3 16K1119 A
8	161111J2_08	11/11/2016 17:52:55	ST161111J2-7 PFC C3.5 16K1120	PFC C3.5 16K1120 A
9	161111J2_09	11/11/2016 18:05:09	ST161111J2-8 PFC CS4 16K1121	PFC CS4 16K1121 A
10	161111J2_10	11/11/2016 18:17:21	ST161111J2-9 PFC CS4.5 16K1122	PFC CS4.5 16K1122 A
11	161111J2_11	11/11/2016 18:29:38	ST161111J2-10 PFC CS5 16K1123	PFC CS5 16K1123 A
12	161111J2_12	11/11/2016 18:41:52	IPA	IPA
13	161111J2_13	11/11/2016 18:54:07	SS161111J2-1 PFC SSS 16J1810	PFC SSS 16J1810 A
14	161111J2_14	11/11/2016 19:06:23	IPA	IPA
15	161111J2_15	11/11/2016 19:18:38	B6K0030-BS1	OPR
16	161111J2_16	11/11/2016 19:30:51	B6K0033-BS1	OPR
17	161111J2_17	11/11/2016 19:43:07	IPA	IPA
18	161111J2_18	11/11/2016 19:55:22	B6K0033-BLK1	Method Blank
19	161111J2_19	11/11/2016 20:07:37	B6K0030-BLK1	Method Blank
20	161111J2_20	11/11/2016 20:19:48	1601384-01	WURTS_EB001JH-102416
21	161111J2_21	11/11/2016 20:32:00	1601384-02	WURTS_VAS01014-27-30
22	161111J2_22	11/11/2016 20:44:16	1601384-03	WURTS_VAS01014-37-40
23	161111J2_23	11/11/2016 20:56:27	1601384-04	WURTS_VAS01014-47-50
24	161111J2_24	11/11/2016 21:08:40	1601384-05	WURTS_VAS13004-20-23
25	161111J2_25	11/11/2016 21:20:55	1601384-06	WURTS_VAS13004-30-33
26	161111J2_26	11/11/2016 21:33:11	1601384-07	WURTS_VAS13004-40-43
27	161111J2_27	11/11/2016 21:45:25	1601384-08	WURTS_VAS13004-50-53
28	161111J2_28	11/11/2016 21:57:40	1601384-09	WURTS_VAS13005-26-29
29	161111J2_29	11/11/2016 22:09:56	1601384-10	WURTS_VAS13005-36-39
30	161111J2_30	11/11/2016 22:22:11	IPA	IPA
31	161111J2_31	11/11/2016 22:34:26	ST161111J2-11 PFC C3.5 16K1120	PFC C3.5 16K0713 A
32	161111J2_32	11/11/2016 22:46:37	IPA	IPA
33	161111J2_33	11/11/2016 22:58:52	1601384-11	WURTS_VAS13005-46-49
34	161111J2_34	11/11/2016 23:11:09	1601384-12	WURTS_VAS13005-56-59
35	161111J2_35	11/11/2016 23:23:24	1601386-01	WURTS_EB002JH-102516
36	161111J2_36	11/11/2016 23:35:37	1601386-02	WURTS_EB003JH-102616
37	161111J2_37	11/11/2016 23:47:49	1601386-03	WURTS_VAS01012-18-21
38	161111J2_38	11/12/2016 00:00:10	1601386-04	WURTS_VAS01012-18-21_FD
39	161111J2_39	11/12/2016 00:12:24	1601386-05	WURTS_VAS01012-28-31
40	161111J2_40	11/12/2016 00:24:39	1601386-06	WURTS_VAS01012-38-41
41	161111J2_41	11/12/2016 00:36:54	1601386-07	WURTS_VAS01012-48-51
42	161111J2_42	11/12/2016 00:49:08	1601386-08	WURTS_VAS01013-20-23
43	161111J2_43	11/12/2016 01:01:20	IPA	IPA
44	161111J2_44	11/12/2016 01:13:36	ST161111J2-12 PFC C3.5 16K1120	PFC C3.5 16K0713 A
45	161111J2_45	11/12/2016 01:25:47	IPA	IPA
46	161111J2_46	11/12/2016 01:38:02	1601386-09	WURTS_VAS01013-30-33
47	161111J2_47	11/12/2016 01:50:17	1601386-10	WURTS_VAS01013-40-43
48	161111J2_48	11/12/2016 02:02:33	1601386-11	WURTS_VAS01013-50-53
49	161111J2_49	11/12/2016 02:14:49	1601386-12	WURTS_VAS01014-57-60
50	161111J2_50	11/12/2016 02:27:05	1601386-13	WURTS_EB005JH-102816
51	161111J2_51	11/12/2016 02:39:20	1601386-14	WURTS_VAS15010-40-43
52	161111J2_52	11/12/2016 02:51:36	1601386-15	WURTS_VAS15010-50-53
53	161111J2_53	11/12/2016 03:03:48	1601359-10	FB-M08-07_161025
54	161111J2_54	11/12/2016 03:16:02	B6K0033-MS1	Matrix Spike
55	161111J2_55	11/12/2016 03:28:18	B6K0033-MSD1	Matrix Spike Dup
56	161111J2_56	11/12/2016 03:40:31	IPA	IPA
57	161111J2_57	11/12/2016 03:52:46	ST161111J2-13 PFC C3.5 16K1120	PFC C3.5 16K0713 A
58	161111J2_58	11/12/2016 04:05:00	IPA	IPA

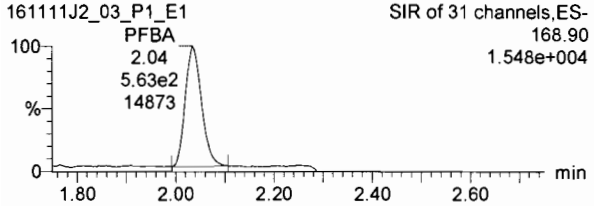
Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

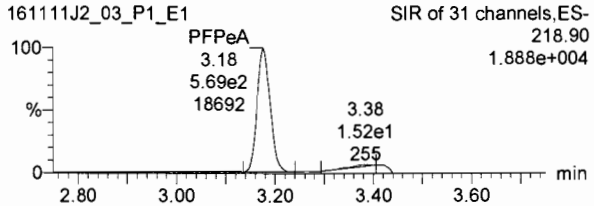
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161111J2_03.wiff, Date: 11-Nov-2016, Time: 16:51:46, ID: ST161111J2-2 PFC CS(-1) 16K1115, Description: PFC CS(-1) 16K1115 A

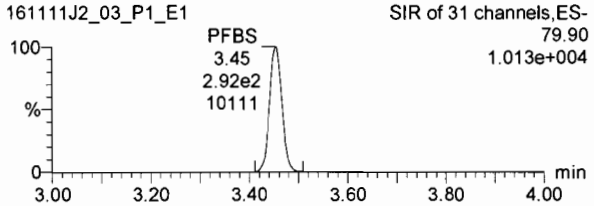
PFBA



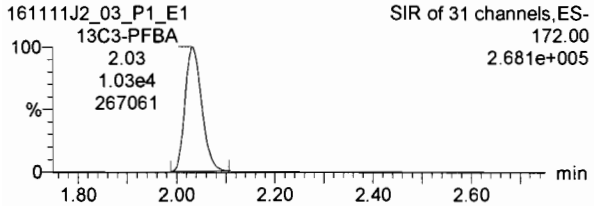
PFPeA



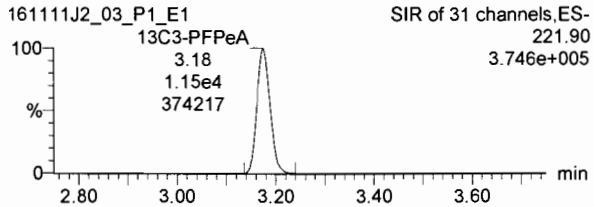
PFBS



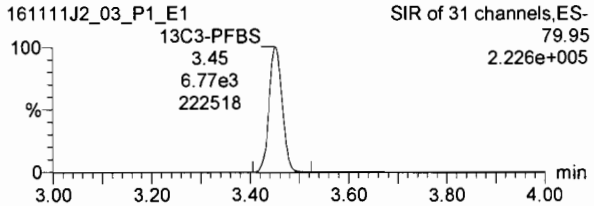
13C3-PFBA



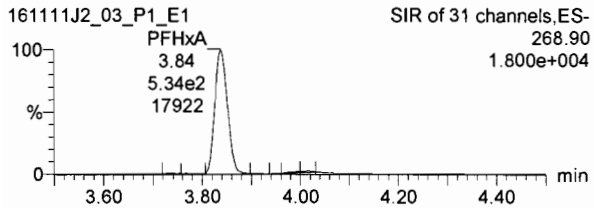
13C3-PFPeA



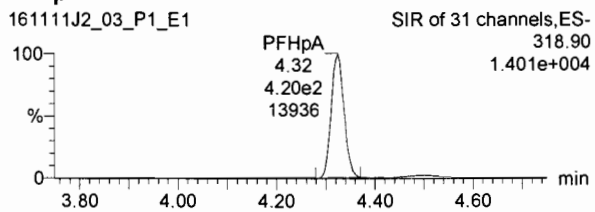
13C3-PFBS



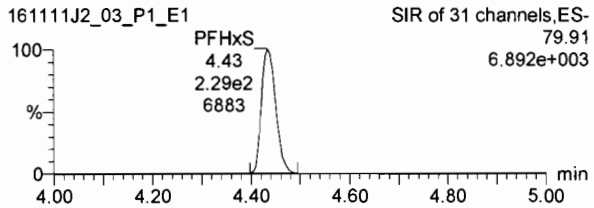
PFHxA



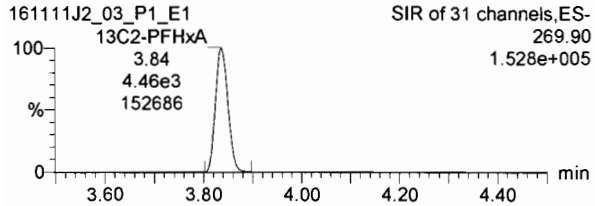
PFHpA



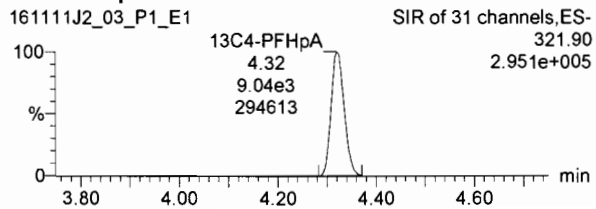
PFHxS



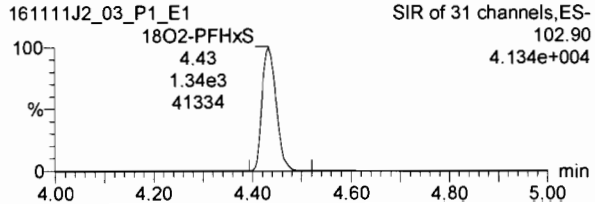
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

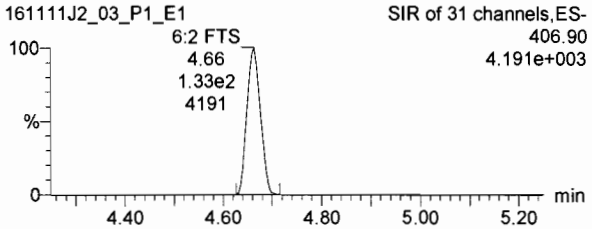


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

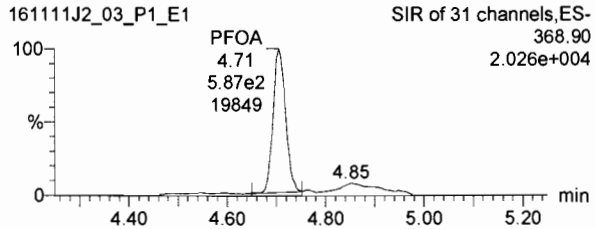
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_03.wiff, Date: 11-Nov-2016, Time: 16:51:46, ID: ST161111J2-2 PFC CS(-1) 16K1115, Description: PFC CS(-1) 16K1115 A

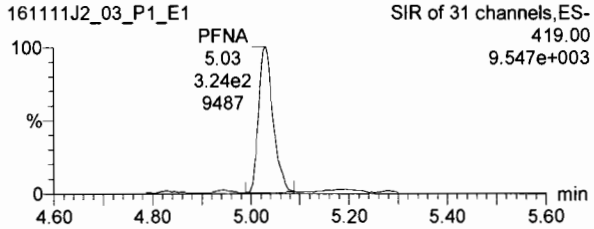
6:2 FTS



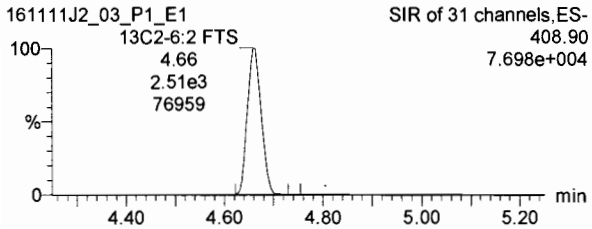
PFOA



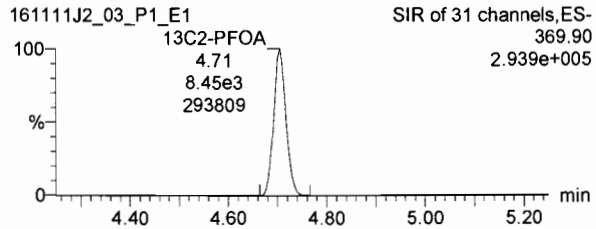
PFNA



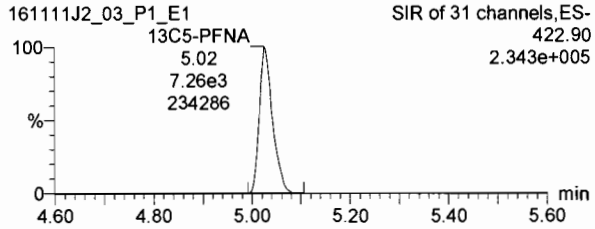
13C2-6:2 FTS



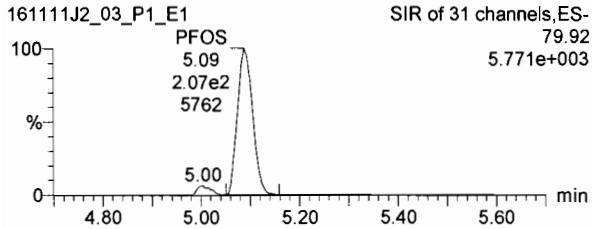
13C2-PFOA



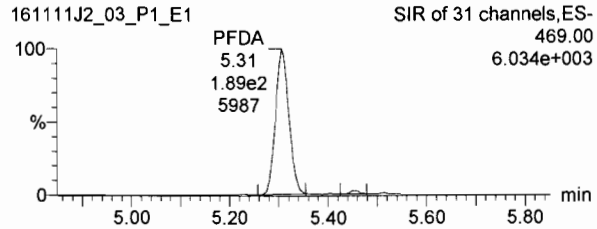
13C5-PFNA



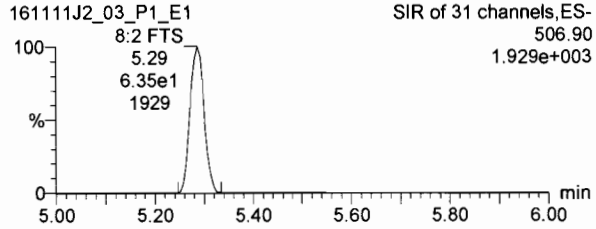
PFOS



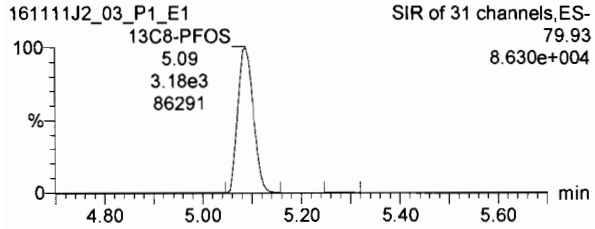
PFDA



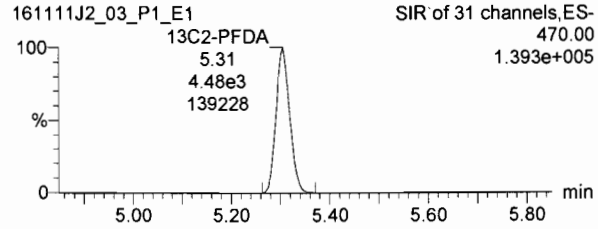
8:2 FTS



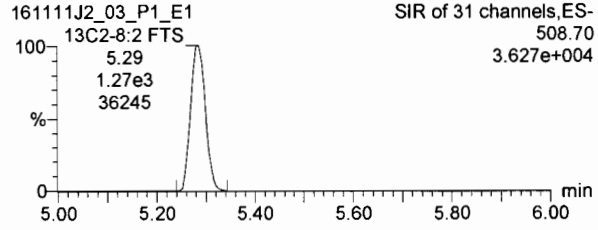
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

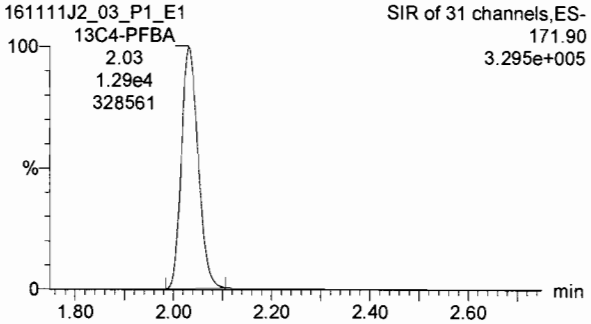


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

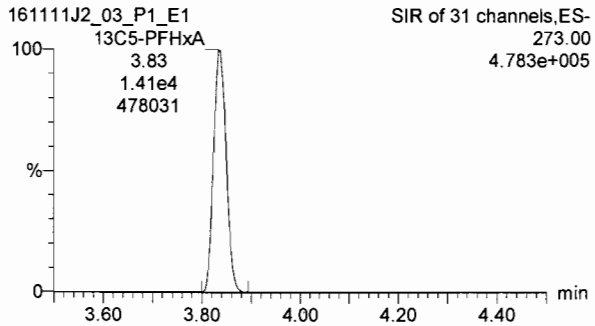
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_03.wiff, Date: 11-Nov-2016, Time: 16:51:46, ID: ST161111J2-2 PFC CS(-1) 16K1115, Description: PFC CS(-1) 16K1115 A

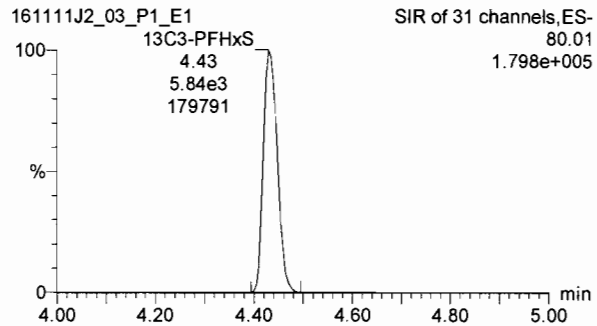
13C4-PFBA



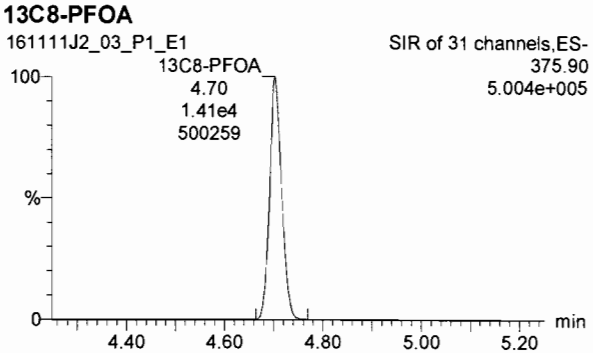
13C5-PFHxA



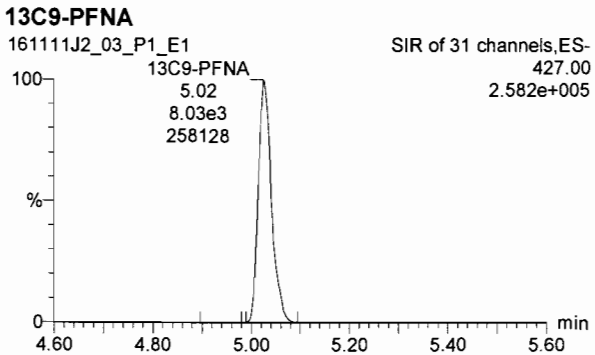
13C3-PFHxS



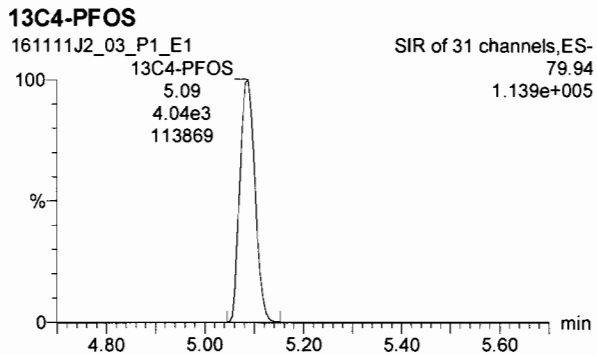
13C8-PFOA



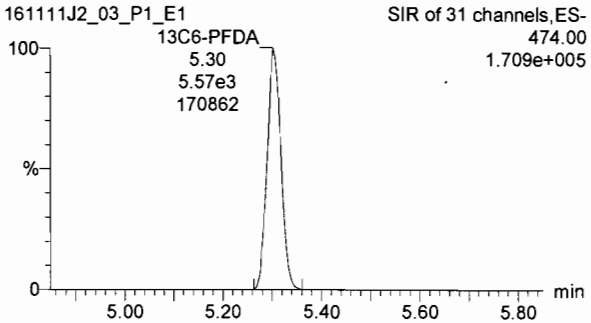
13C9-PFNA



13C4-PFOS



13C6-PFDA

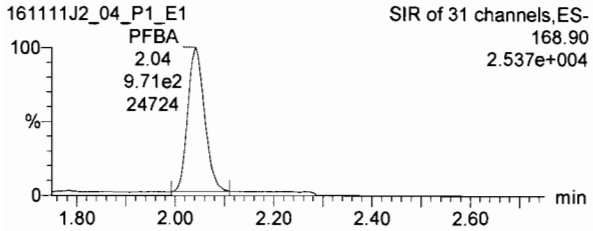


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

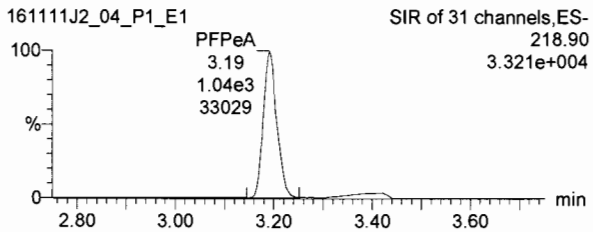
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_04.wiff, Date: 11-Nov-2016, Time: 17:04:00, ID: ST161111J2-3 PFC CS0 16K1116, Description: PFC CS0 16K1116 A

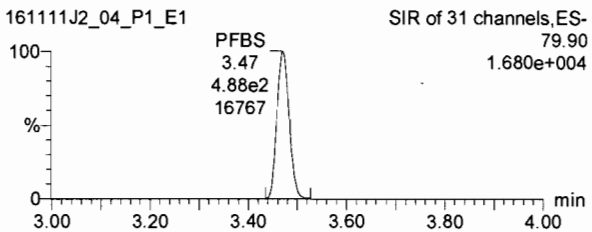
PFBA



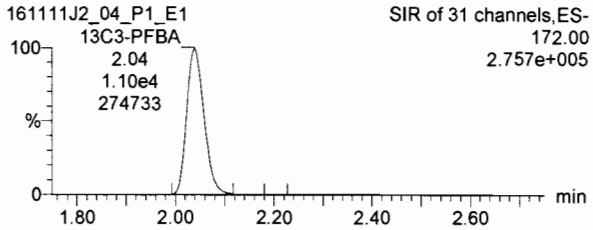
PFPeA



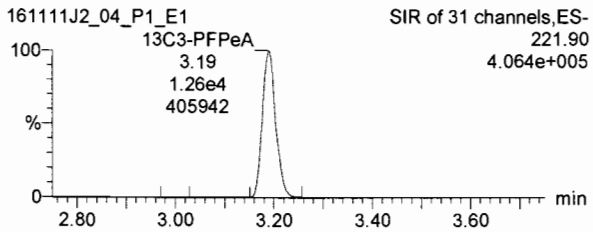
PFBS



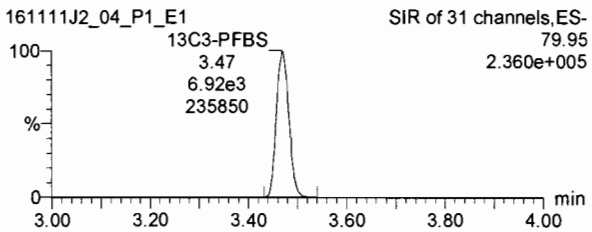
13C3-PFBA



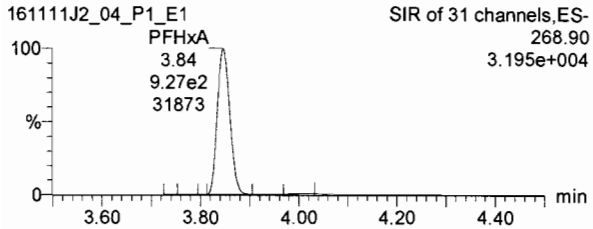
13C3-PFPeA



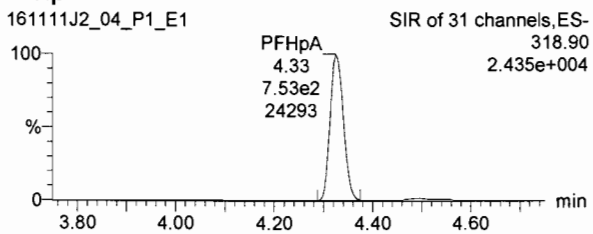
13C3-PFBS



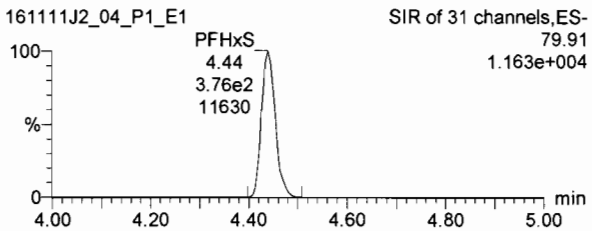
PFHxA



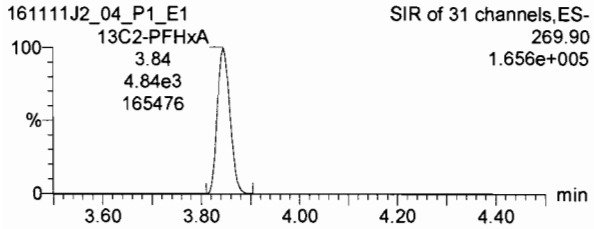
PFHpA



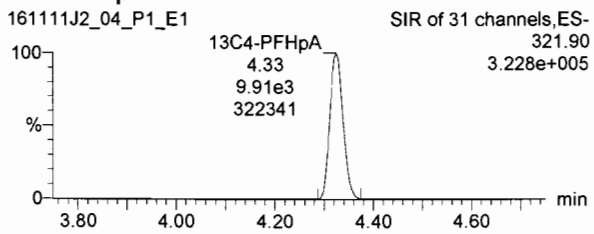
PFHxS



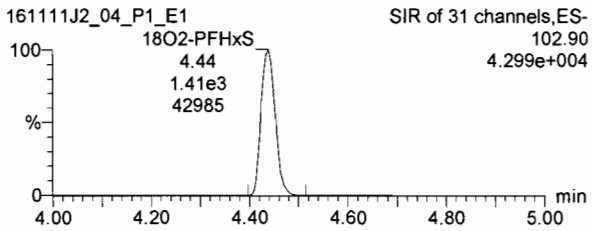
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

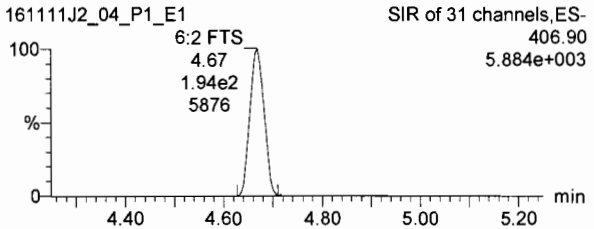


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

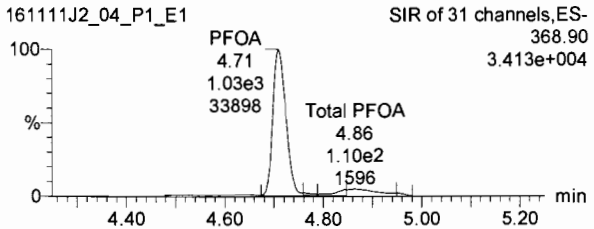
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_04.wiff, Date: 11-Nov-2016, Time: 17:04:00, ID: ST161111J2-3 PFC CS0 16K1116, Description: PFC CS0 16K1116 A

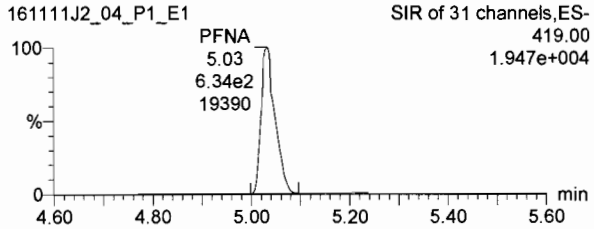
6:2 FTS



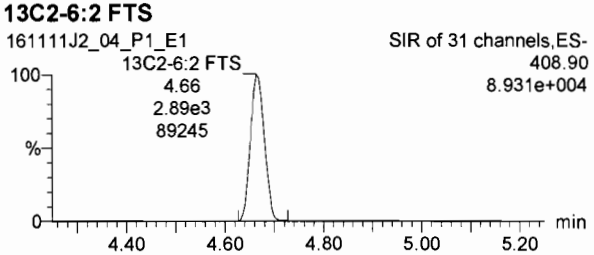
PFOA



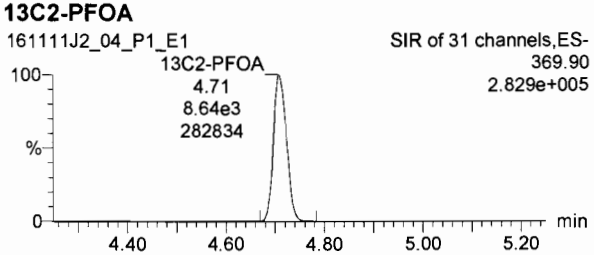
PFNA



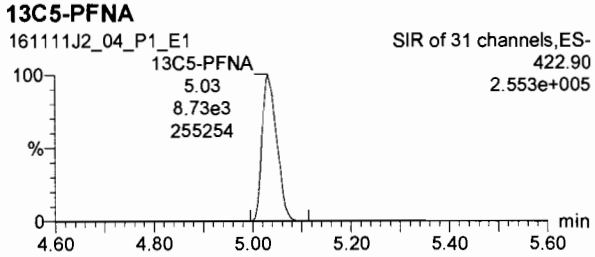
13C2-6:2 FTS



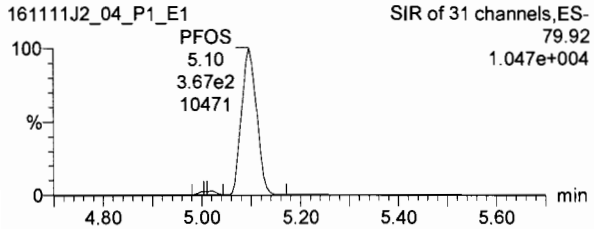
13C2-PFOA



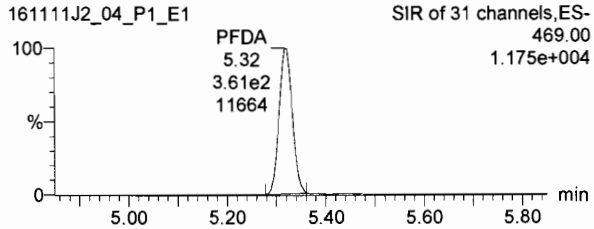
13C5-PFNA



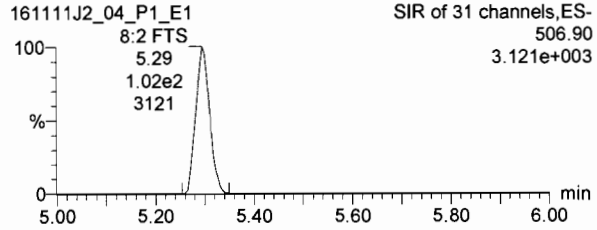
PFOS



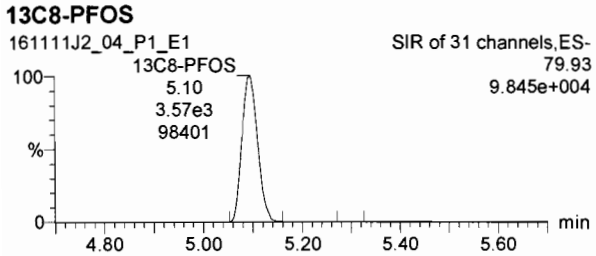
PFDA



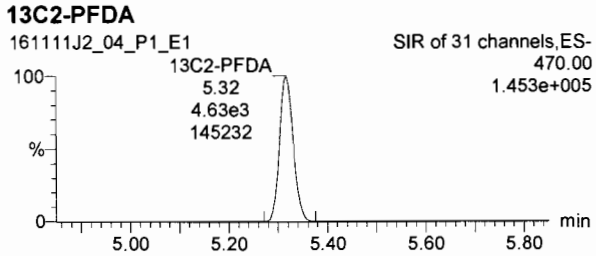
8:2 FTS



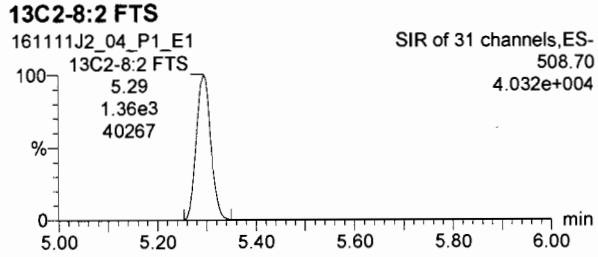
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

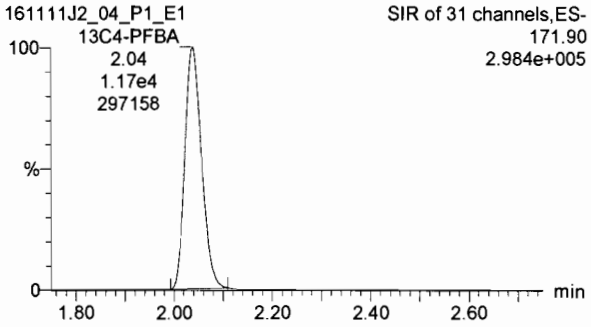


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

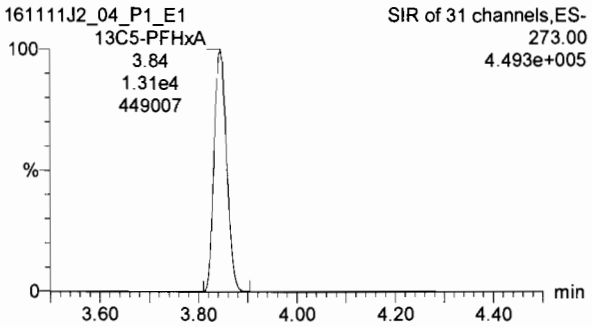
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_04.wiff, Date: 11-Nov-2016, Time: 17:04:00, ID: ST161111J2-3 PFC CS0 16K1116, Description: PFC CS0 16K1116 A

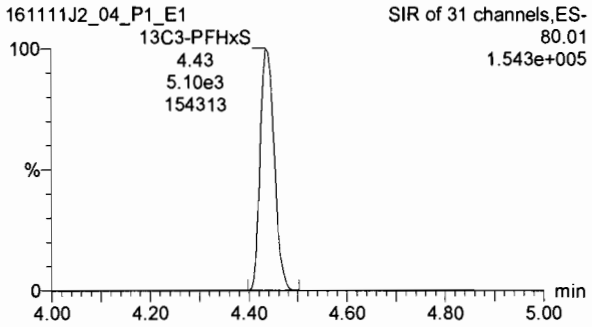
13C4-PFBA



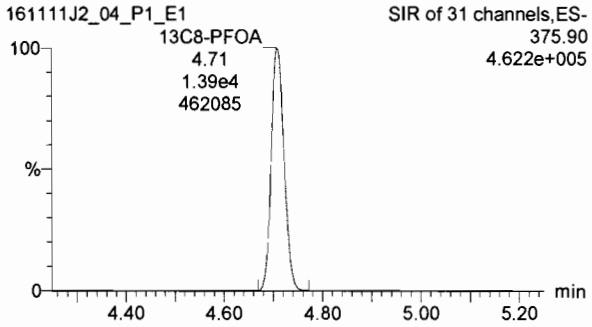
13C5-PFHxA



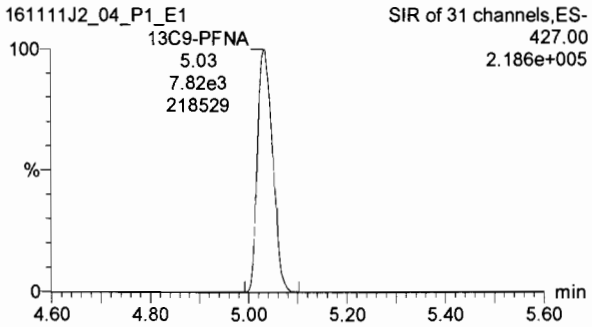
13C3-PFHxS



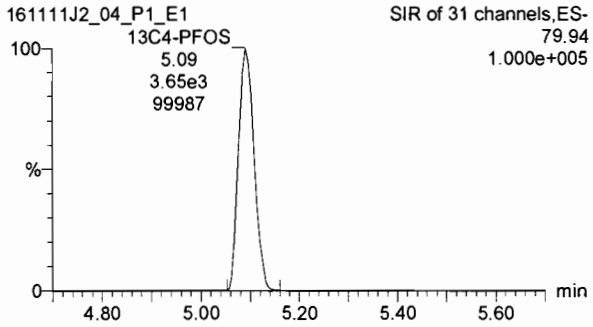
13C8-PFOA



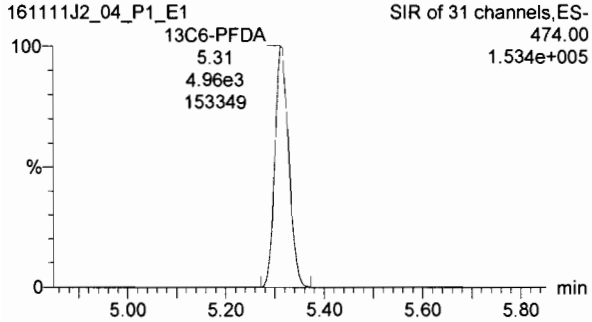
13C9-PFNA



13C4-PFOS



13C6-PFDA

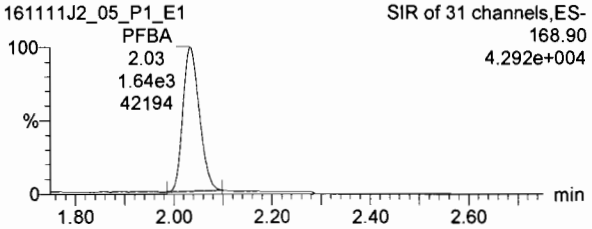


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

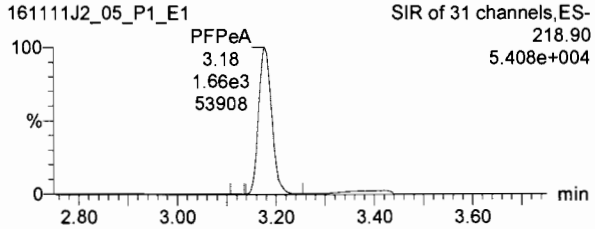
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_05.wiff, Date: 11-Nov-2016, Time: 17:16:11, ID: ST161111J2-4 PFC CS1 16K1117, Description: PFC CS1 16K1117 A

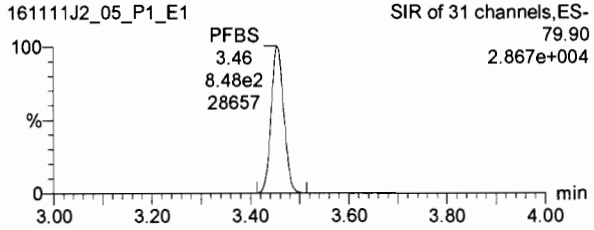
PFBA



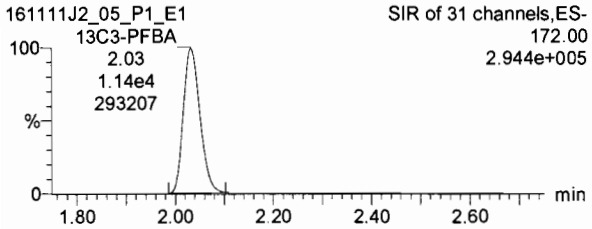
PFPeA



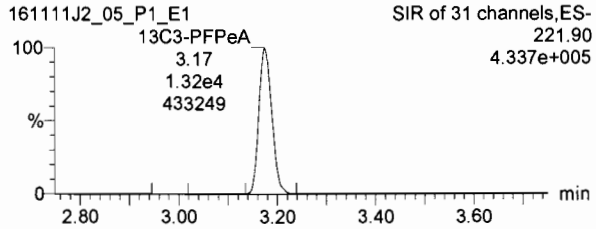
PFBS



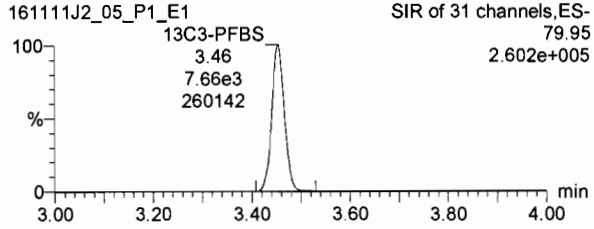
13C3-PFBA



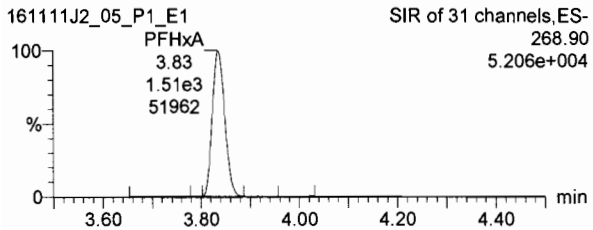
13C3-PFPeA



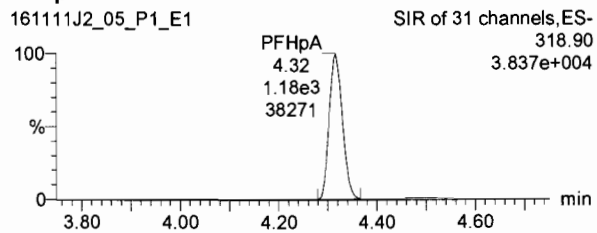
13C3-PFBS



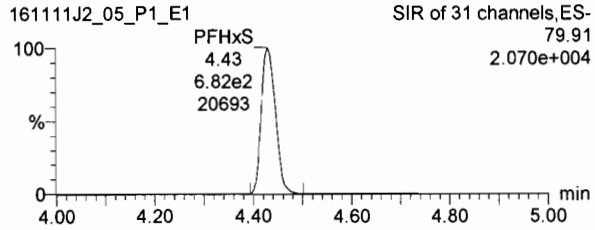
PFHxA



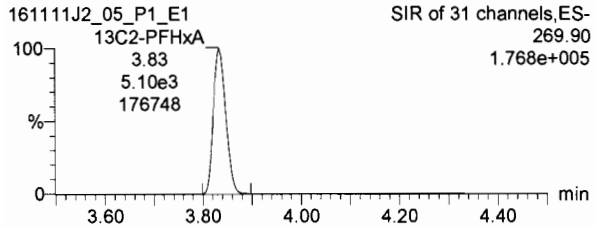
PFHpA



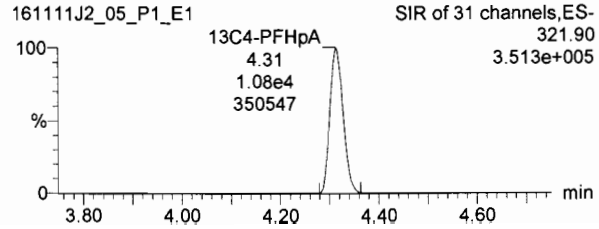
PFHxS



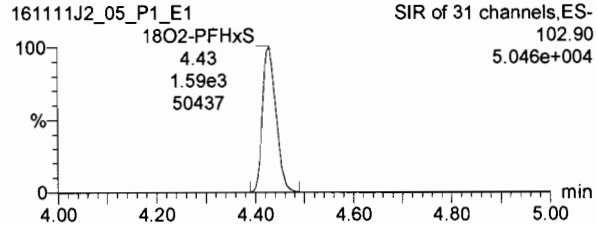
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

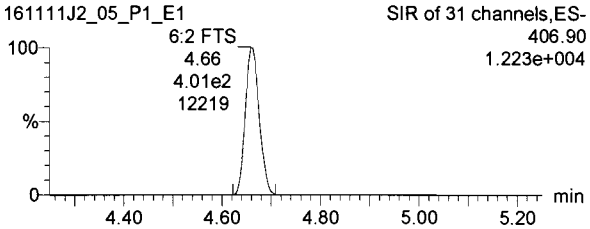


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

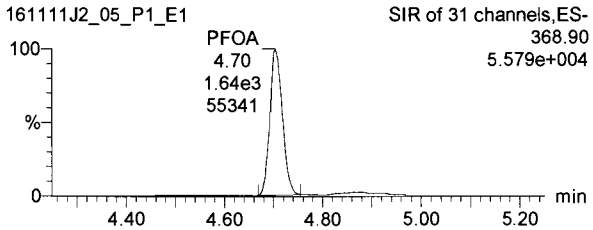
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_05.wiff, Date: 11-Nov-2016, Time: 17:16:11, ID: ST161111J2-4 PFC CS1 16K1117, Description: PFC CS1 16K1117 A

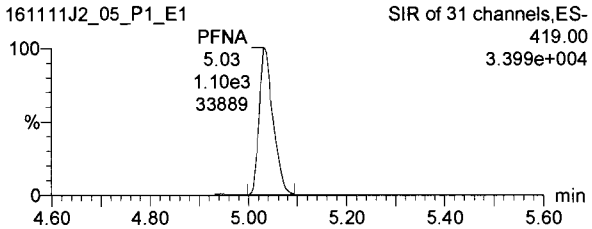
6:2 FTS



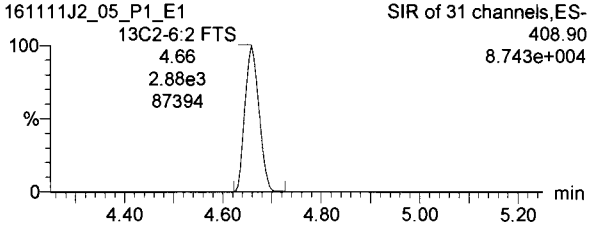
PFOA



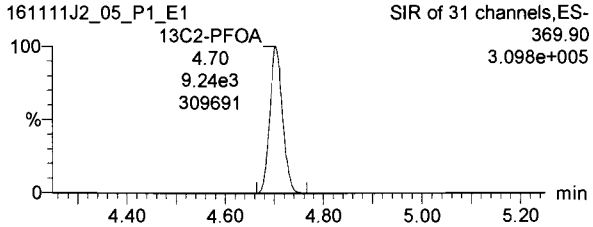
PFNA



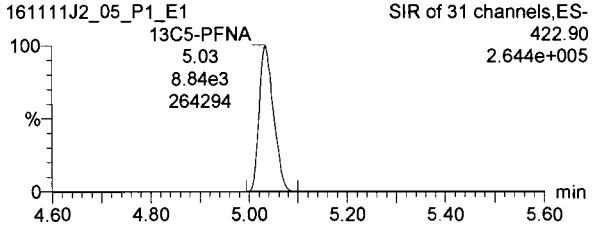
13C2-6:2 FTS



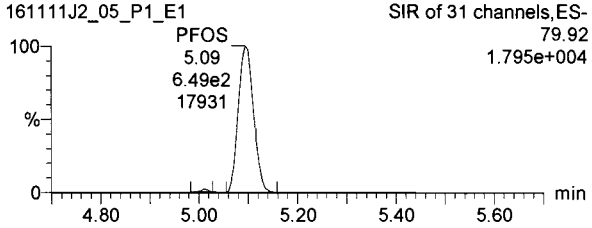
13C2-PFOA



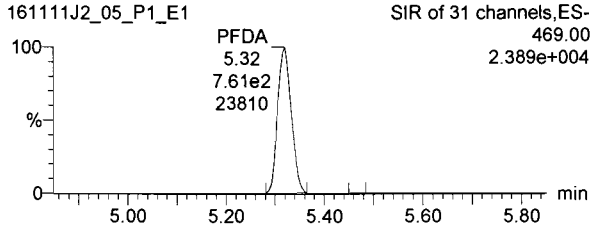
13C5-PFNA



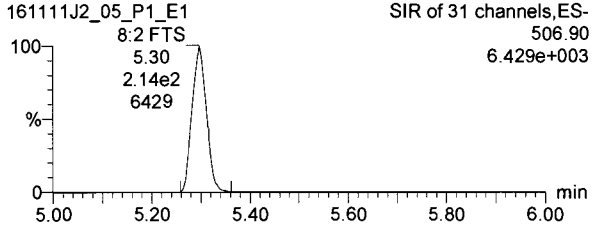
PFOS



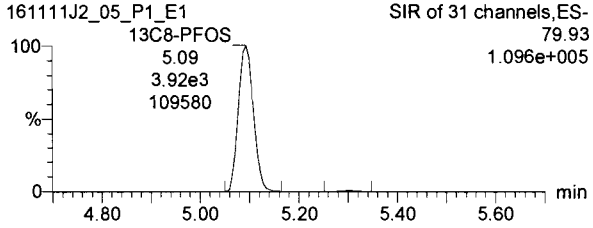
PFDA



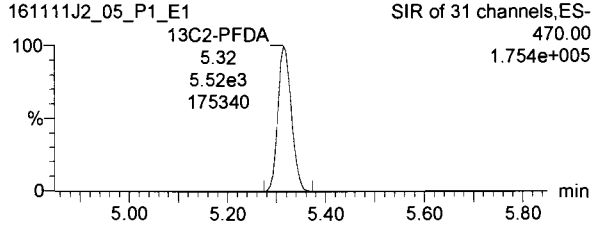
8:2 FTS



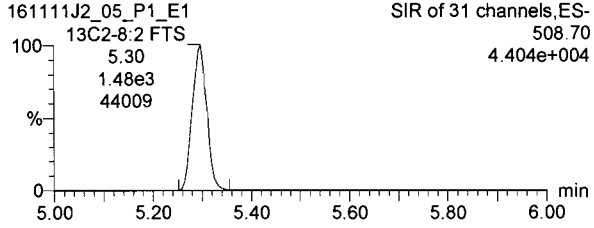
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

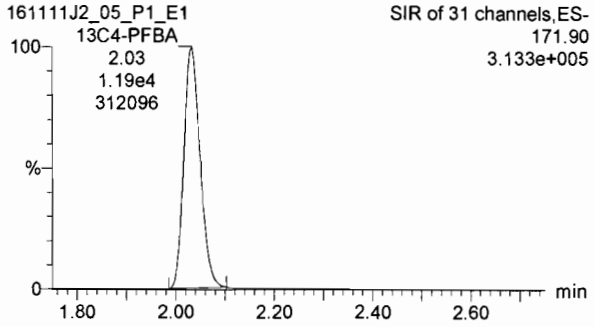


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

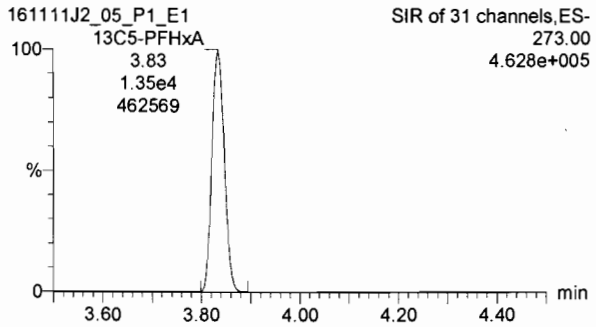
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_05.wiff, Date: 11-Nov-2016, Time: 17:16:11, ID: ST161111J2-4 PFC CS1 16K1117, Description: PFC CS1 16K1117 A

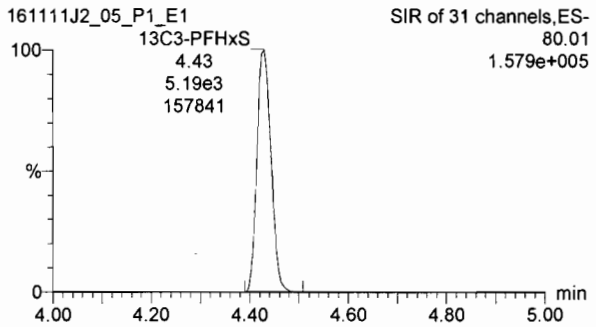
13C4-PFBA



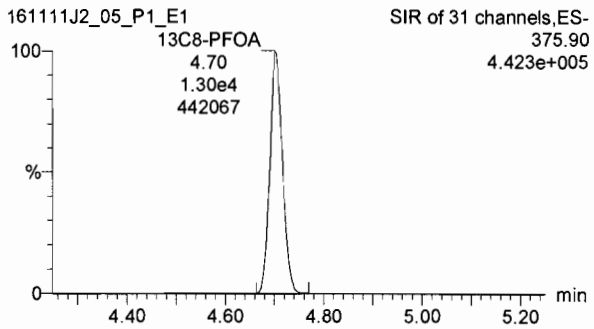
13C5-PFHxA



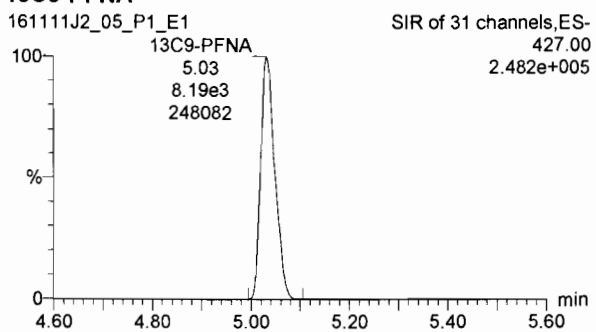
13C3-PFHxS



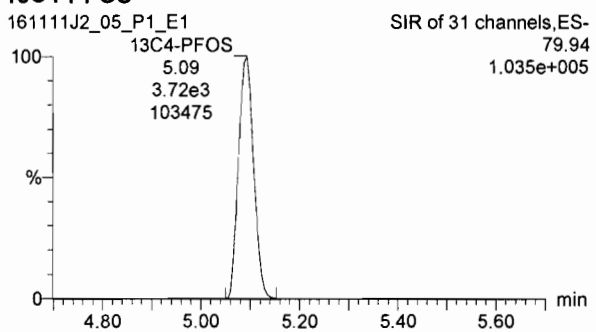
13C8-PFOA



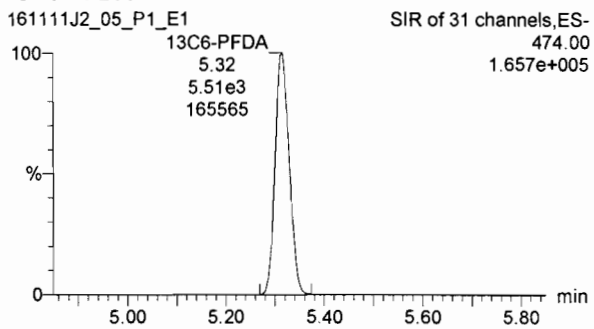
13C9-PFNA



13C4-PFOS



13C6-PFDA

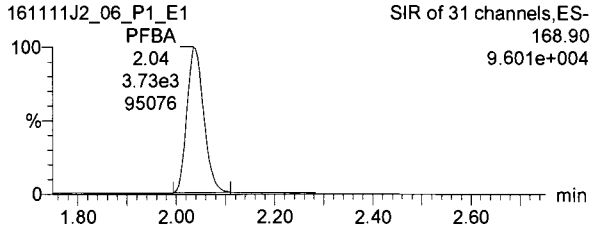


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

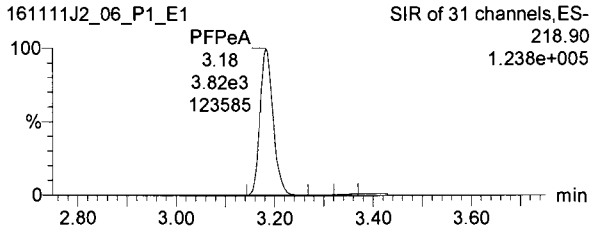
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_06.wiff, Date: 11-Nov-2016, Time: 17:28:26, ID: ST161111J2-5 PFC CS2 16K1118, Description: PFC CS2 16K1118 A

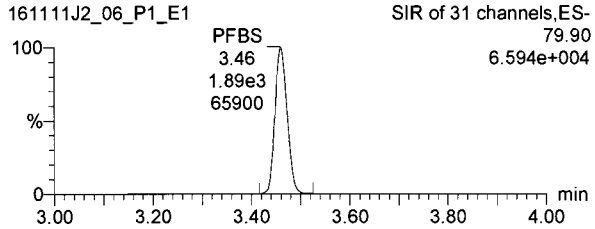
PFBA



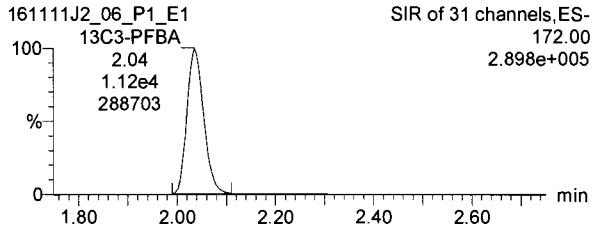
PFPeA



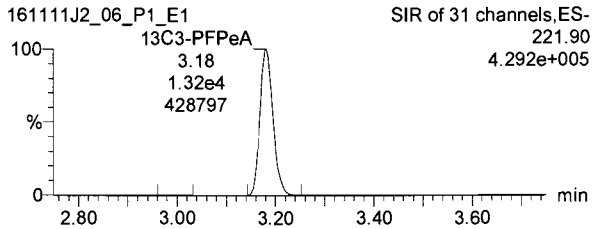
PFBS



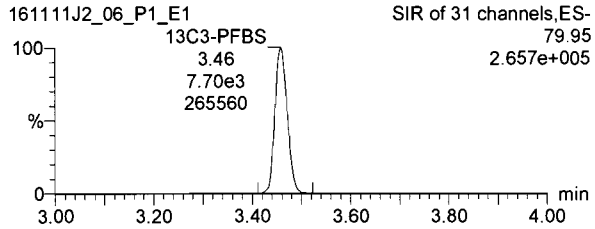
13C3-PFBA



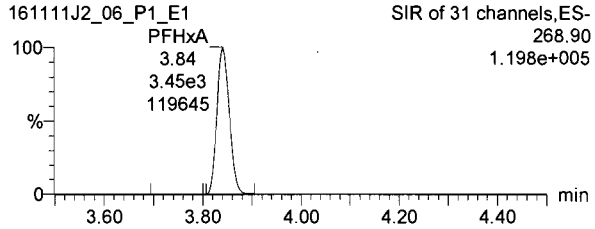
13C3-PFPeA



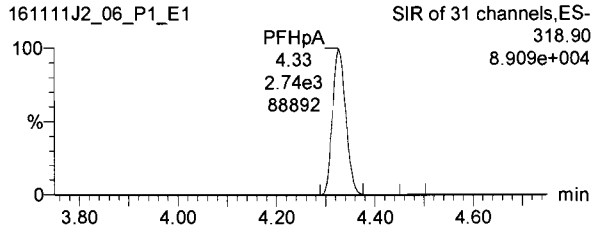
13C3-PFBS



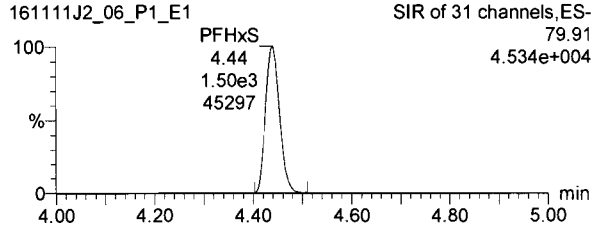
PFHxA



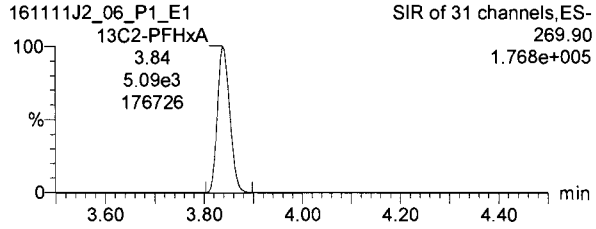
PFHpA



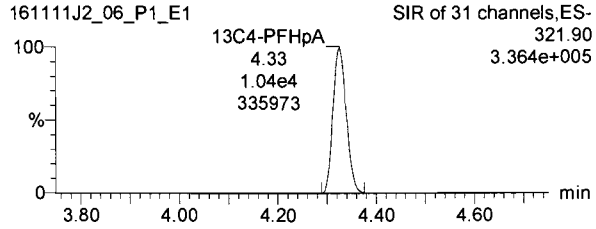
PFHxS



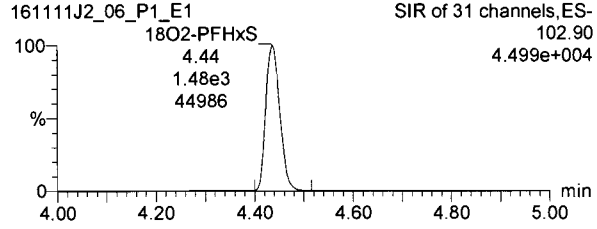
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

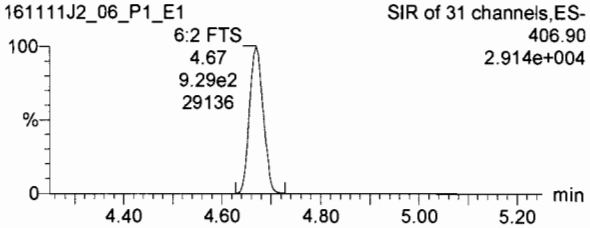


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

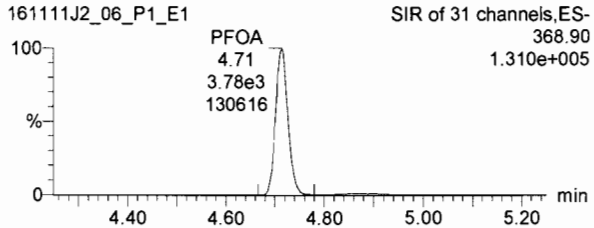
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_06.wiff, Date: 11-Nov-2016, Time: 17:28:26, ID: ST161111J2-5 PFC CS2 16K1118, Description: PFC CS2 16K1118 A

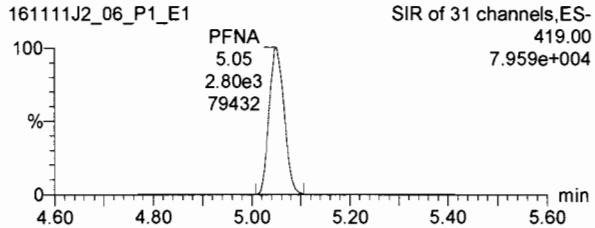
6:2 FTS



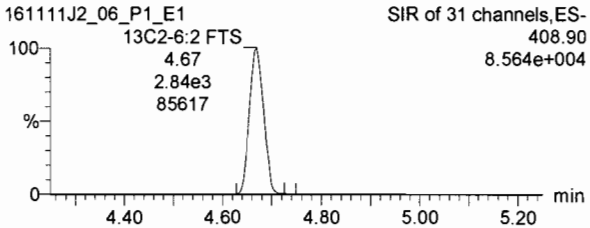
PFOA



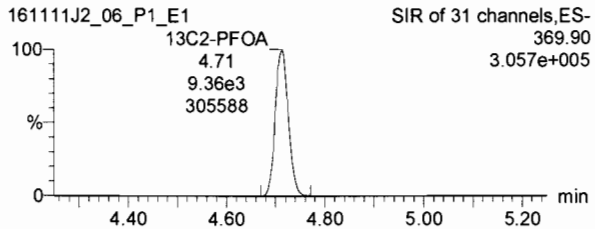
PFNA



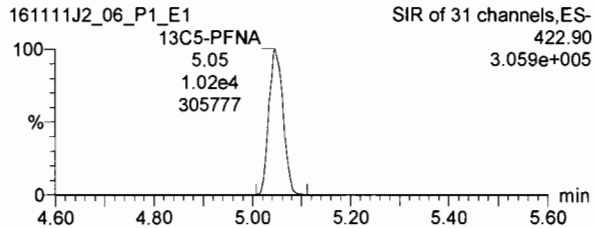
13C2-6:2 FTS



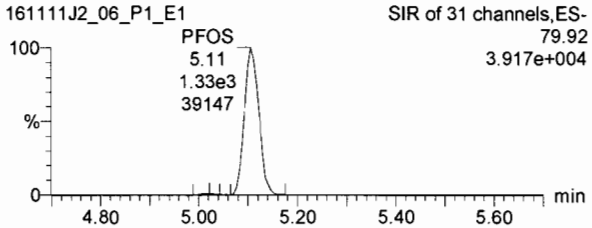
13C2-PFOA



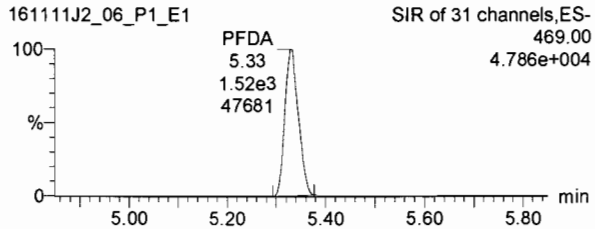
13C5-PFNA



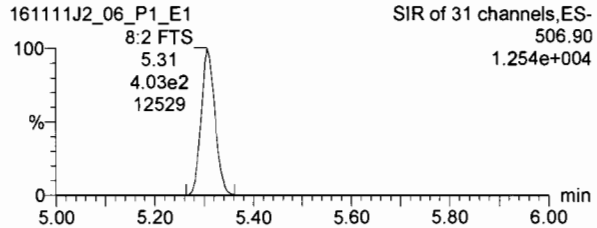
PFOS



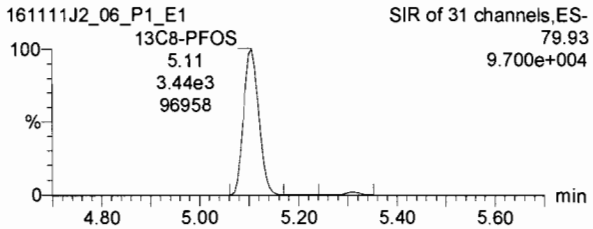
PFDA



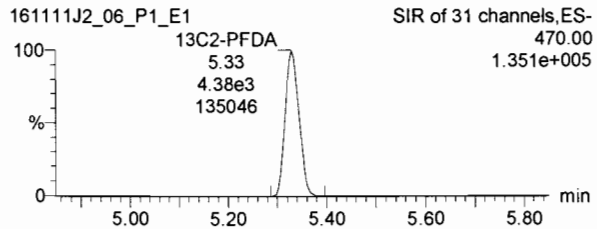
8:2 FTS



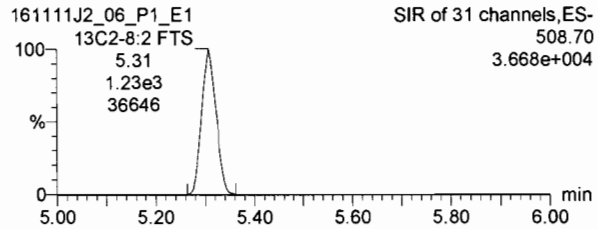
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

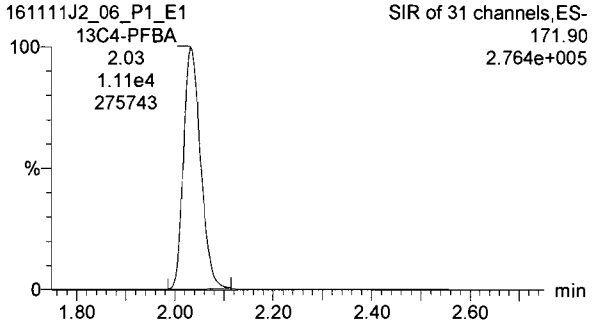


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

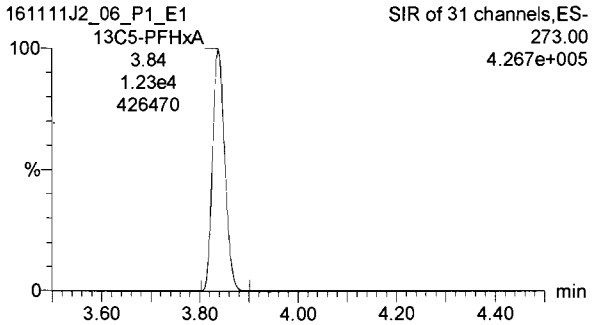
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_06.wiff, Date: 11-Nov-2016, Time: 17:28:26, ID: ST161111J2-5 PFC CS2 16K1118, Description: PFC CS2 16K1118 A

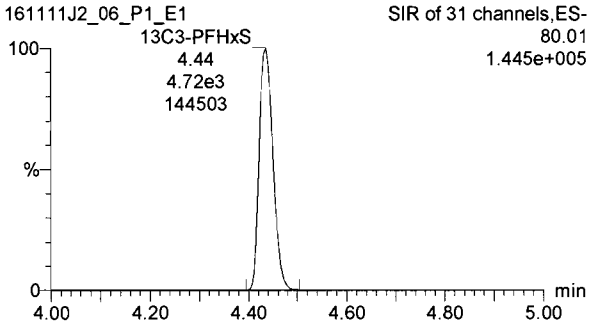
13C4-PFBA



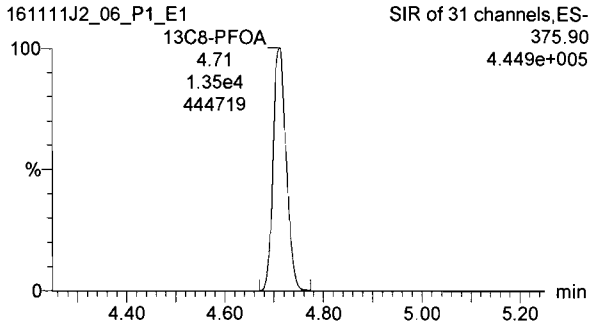
13C5-PFHxA



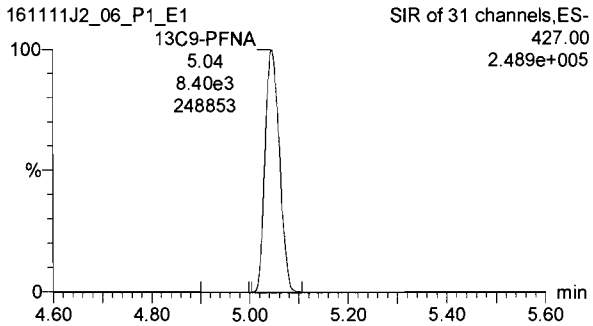
13C3-PFHxS



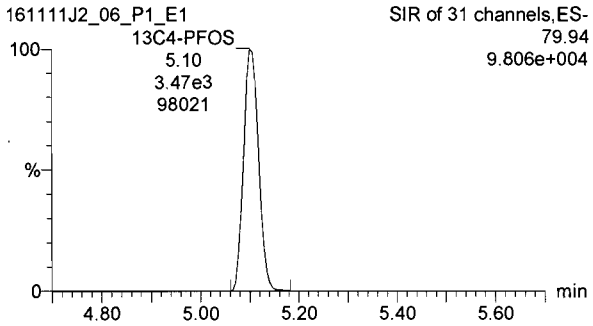
13C8-PFOA



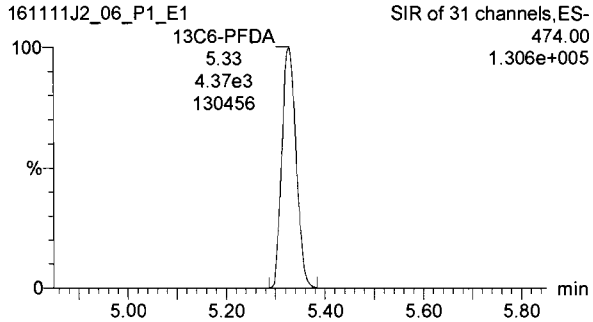
13C9-PFNA



13C4-PFOS



13C6-PFDA

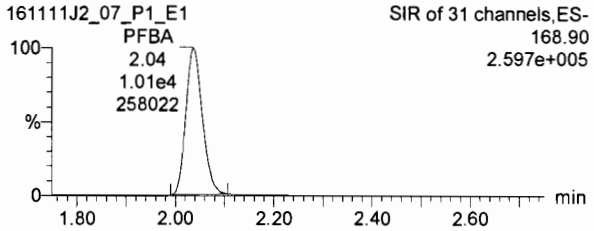


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

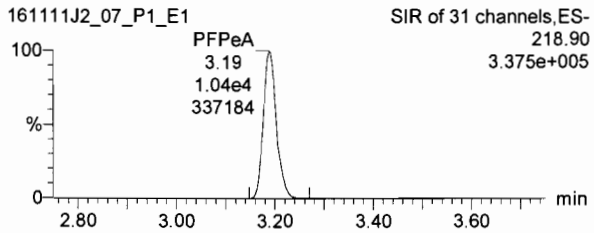
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_07.wiff, Date: 11-Nov-2016, Time: 17:40:40, ID: ST161111J2-6 PFC CS3 16K1119, Description: PFC CS3 16K1119 A

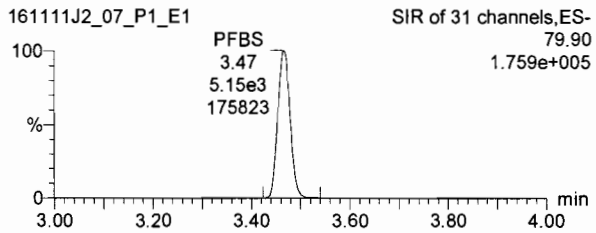
PFBA



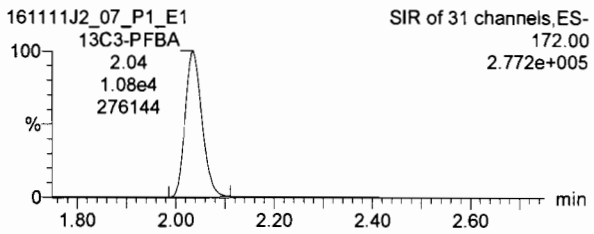
PFPeA



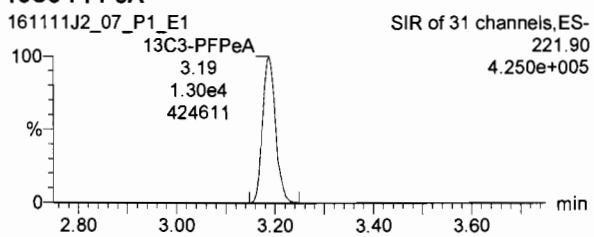
PFBS



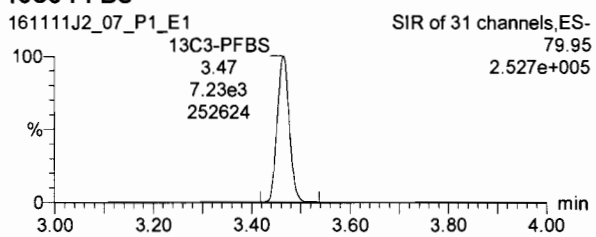
13C3-PFBA



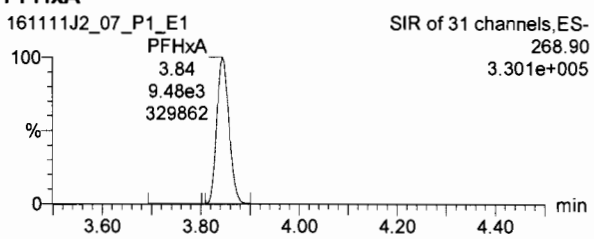
13C3-PFPeA



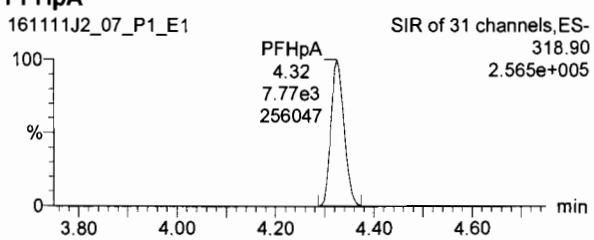
13C3-PFBS



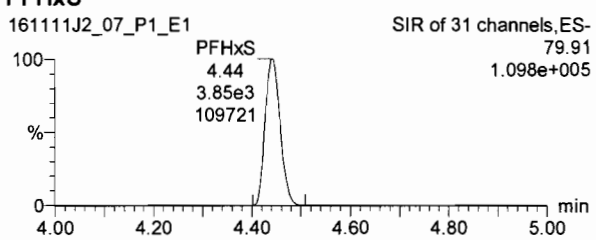
PFHxA



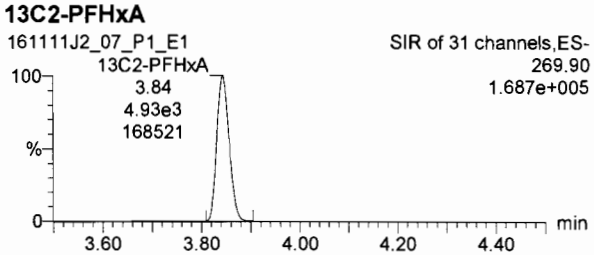
PFHpA



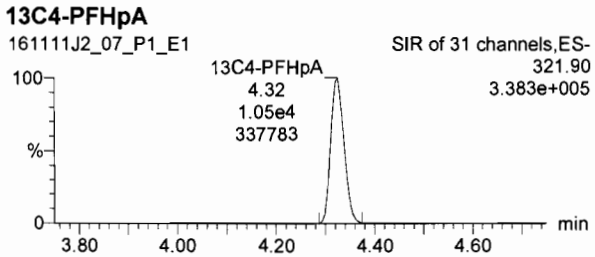
PFHxS



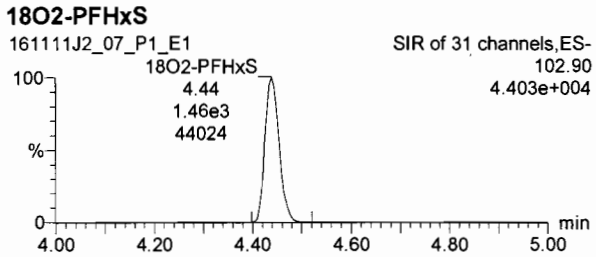
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

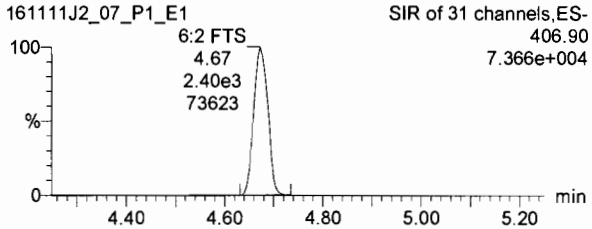


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

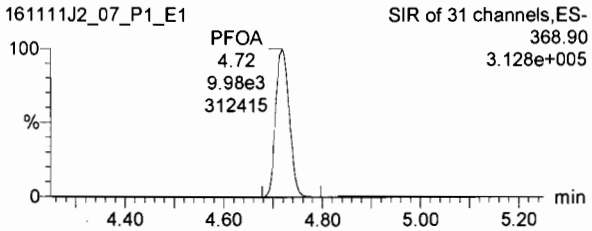
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_07.wiff, Date: 11-Nov-2016, Time: 17:40:40, ID: ST161111J2-6 PFC CS3 16K1119, Description: PFC CS3 16K1119 A

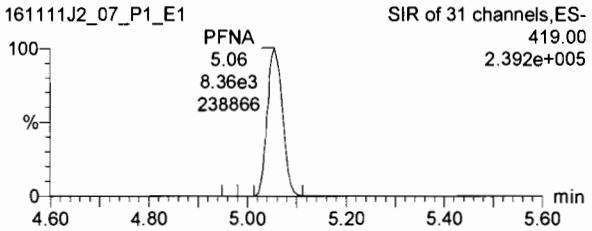
6:2 FTS



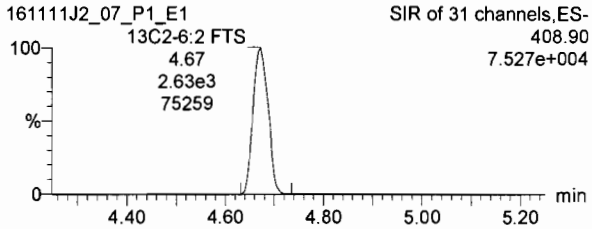
PFOA



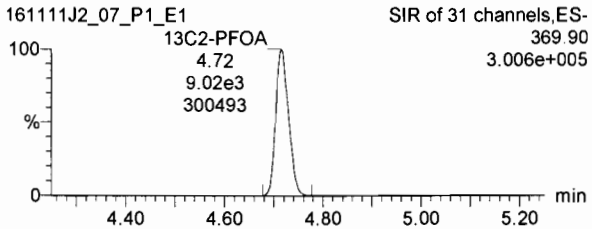
PFNA



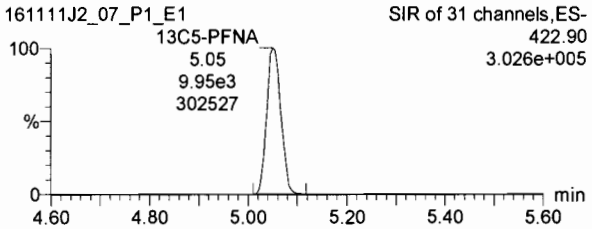
13C2-6:2 FTS



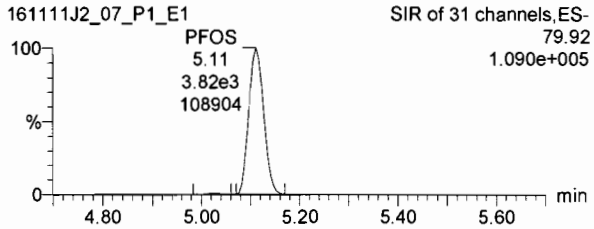
13C2-PFOA



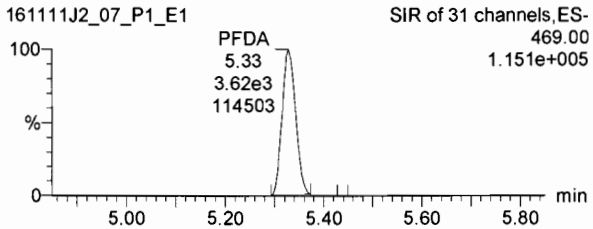
13C5-PFNA



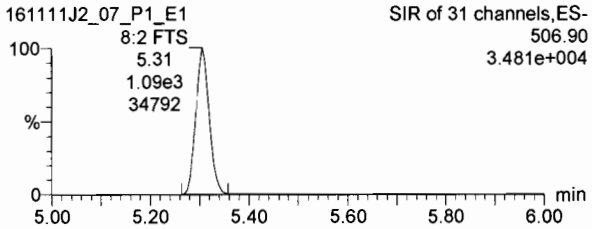
PFOS



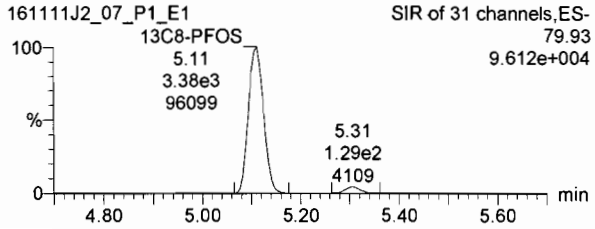
PFDA



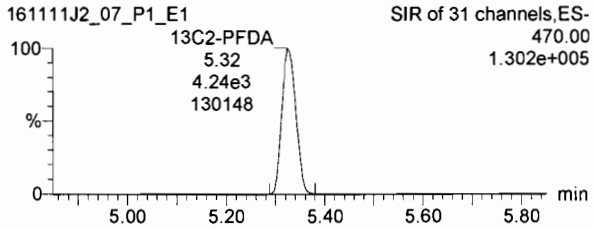
8:2 FTS



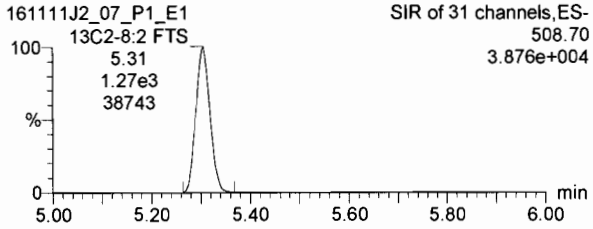
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

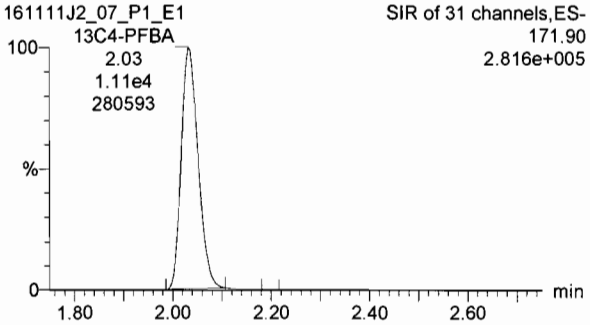


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

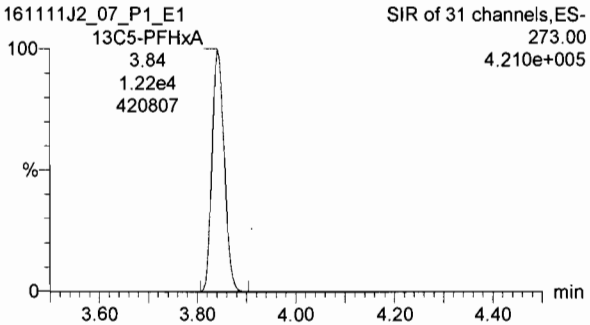
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_07.wiff, Date: 11-Nov-2016, Time: 17:40:40, ID: ST161111J2-6 PFC CS3 16K1119, Description: PFC CS3 16K1119 A

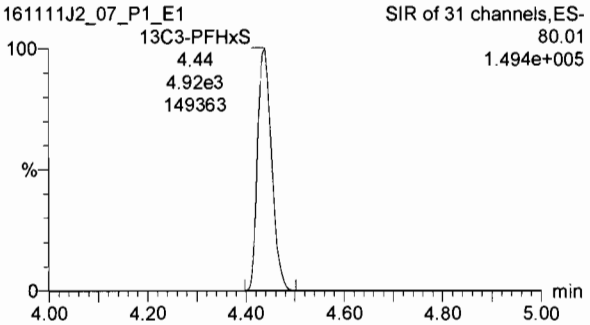
13C4-PFBA



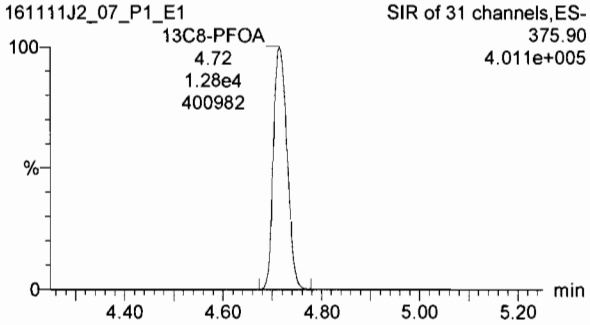
13C5-PFHxA



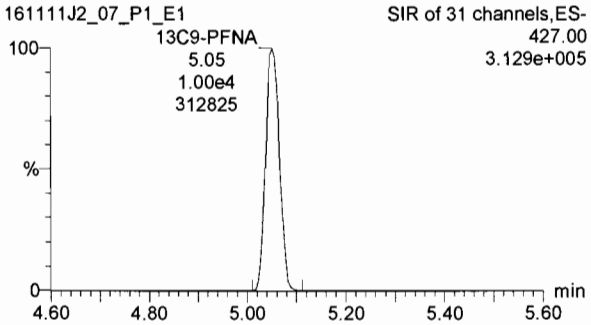
13C3-PFHxS



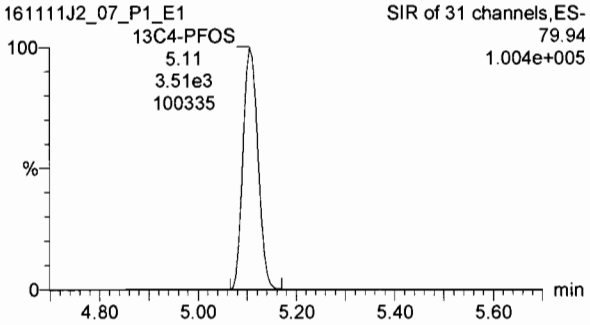
13C8-PFOA



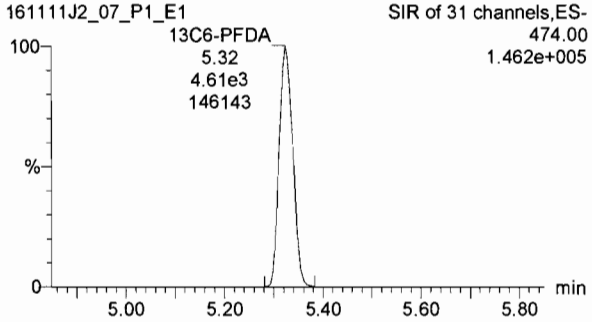
13C9-PFNA



13C4-PFOS



13C6-PFDA

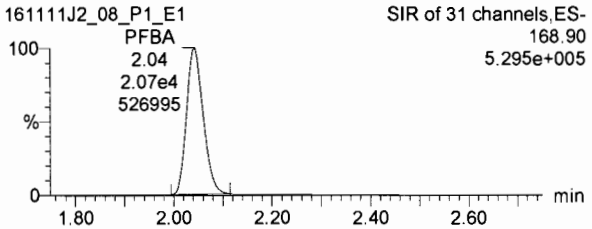


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

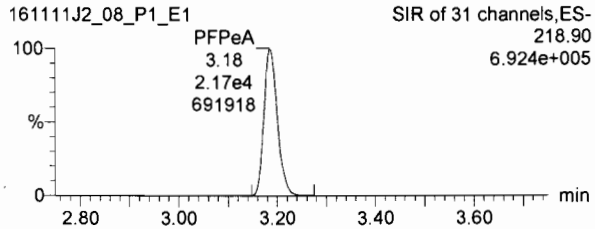
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_08.wiff, Date: 11-Nov-2016, Time: 17:52:55, ID: ST161111J2-7 PFC C3.5 16K1120, Description: PFC C3.5 16K1120 A

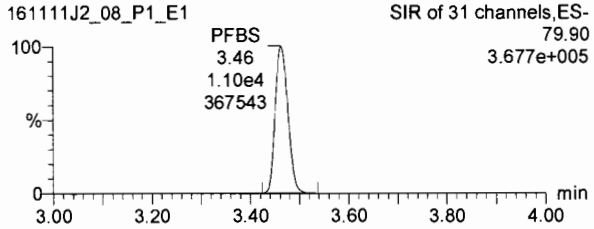
PFBA



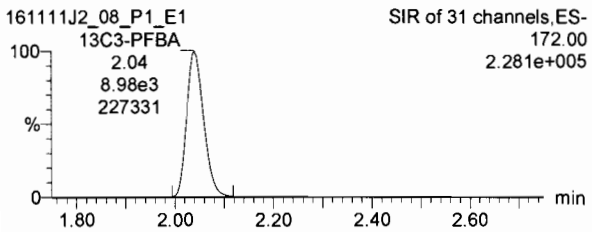
PFPeA



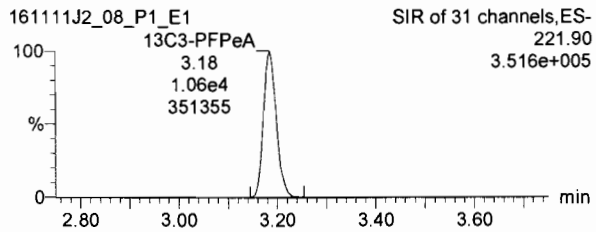
PFBS



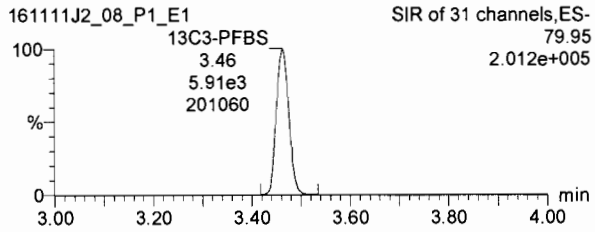
13C3-PFBA



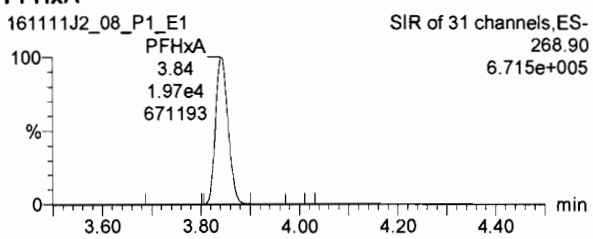
13C3-PFPeA



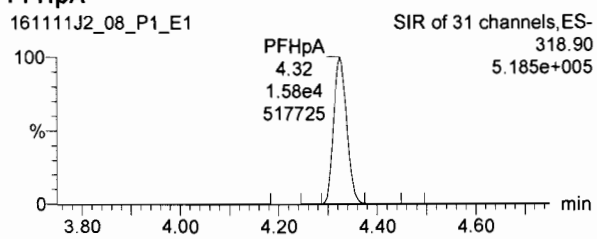
13C3-PFBS



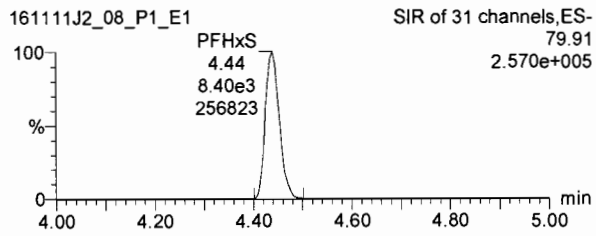
PFHxA



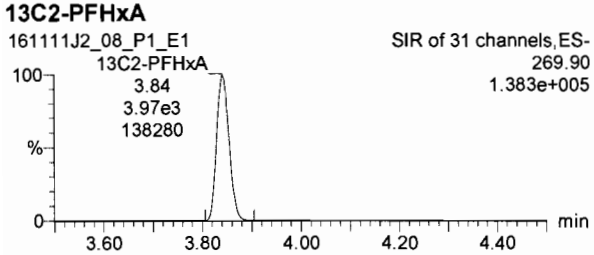
PFHpA



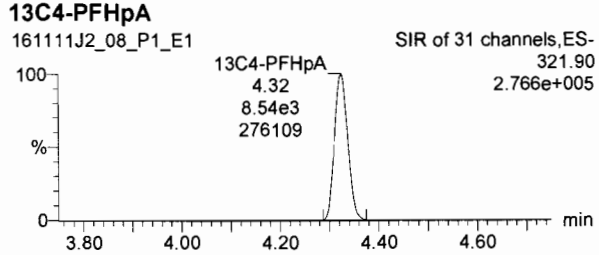
PFHxS



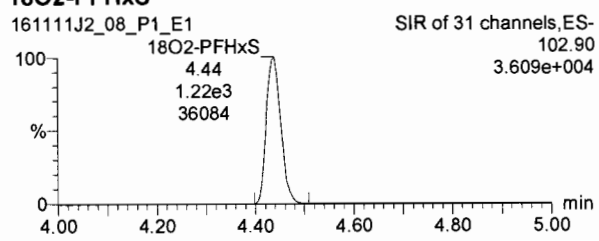
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

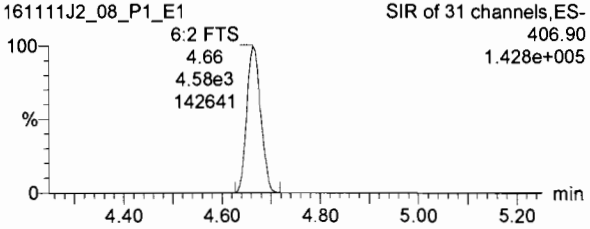


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

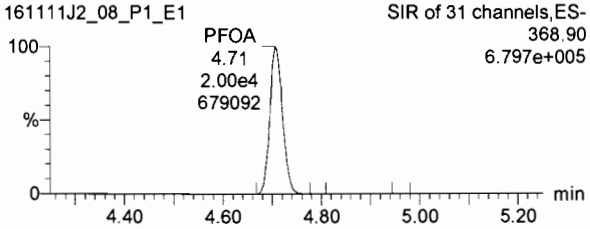
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_08.wiff, Date: 11-Nov-2016, Time: 17:52:55, ID: ST161111J2-7 PFC C3.5 16K1120, Description: PFC C3.5 16K1120 A

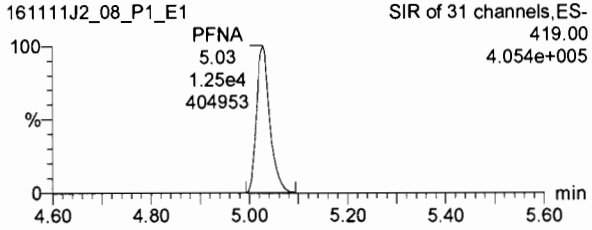
6:2 FTS



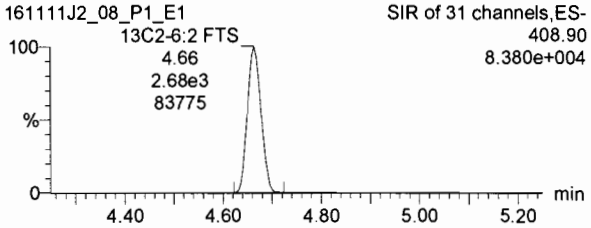
PFOA



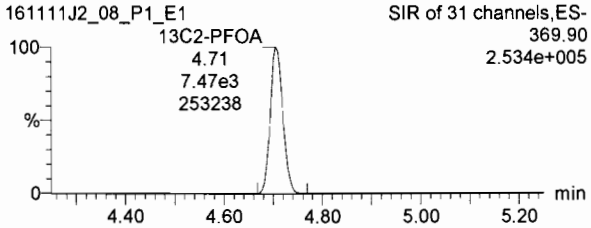
PFNA



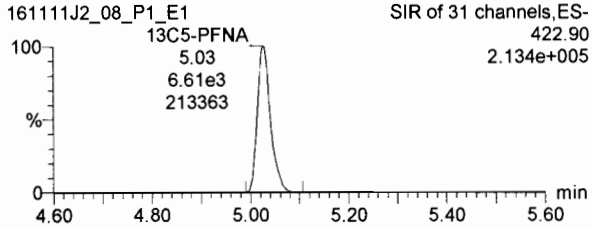
13C2-6:2 FTS



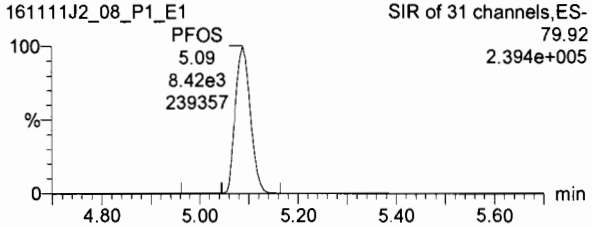
13C2-PFOA



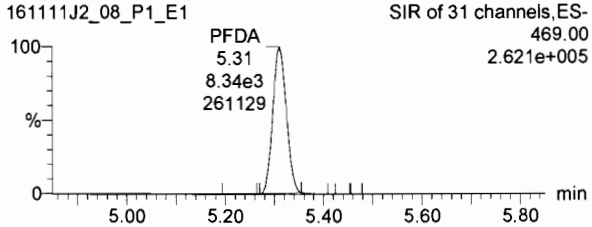
13C5-PFNA



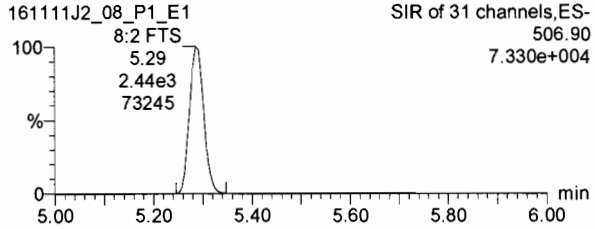
PFOS



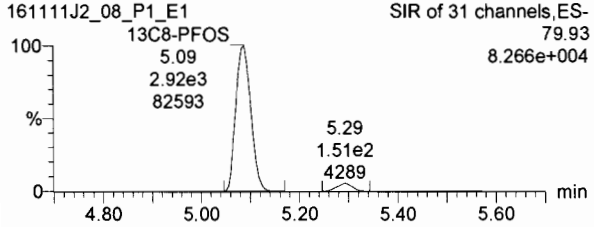
PFDA



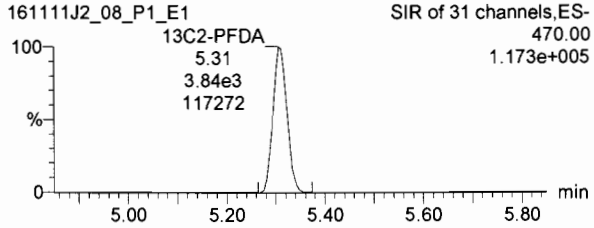
8:2 FTS



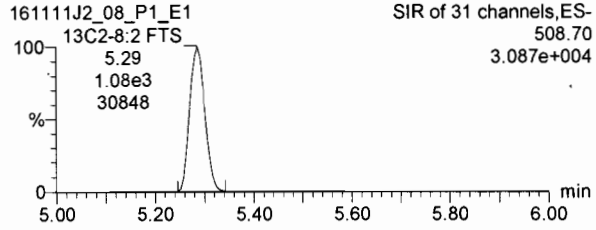
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

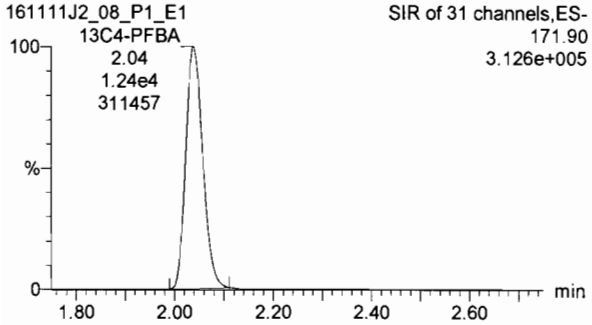


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

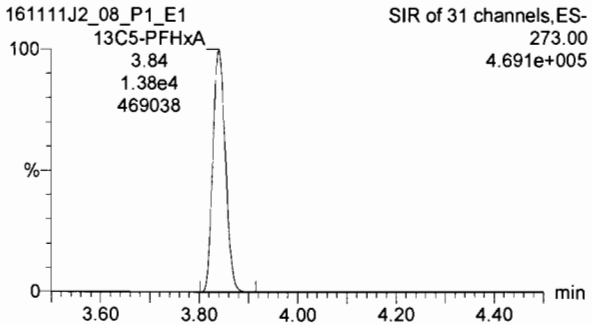
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_08.wiff, Date: 11-Nov-2016, Time: 17:52:55, ID: ST161111J2-7 PFC C3.5 16K1120, Description: PFC C3.5 16K1120 A

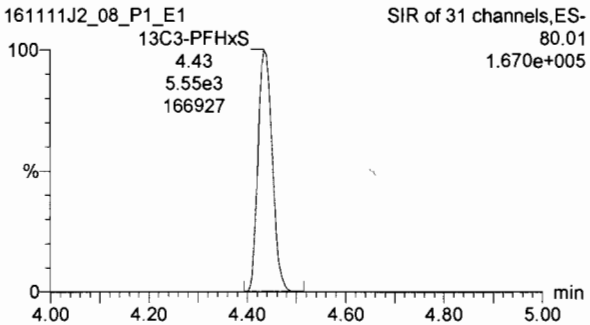
13C4-PFBA



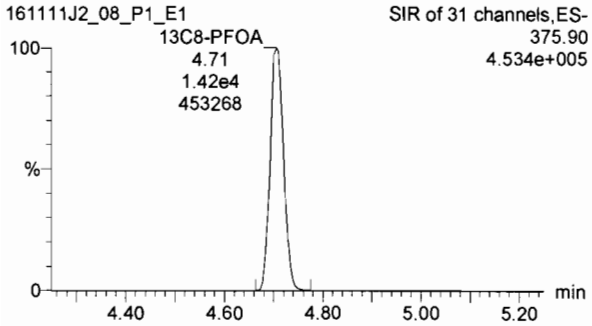
13C5-PFHxA



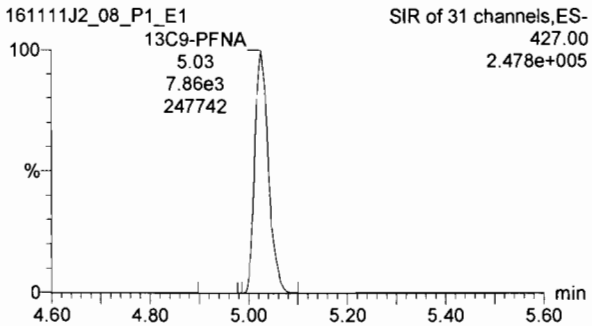
13C3-PFHxS



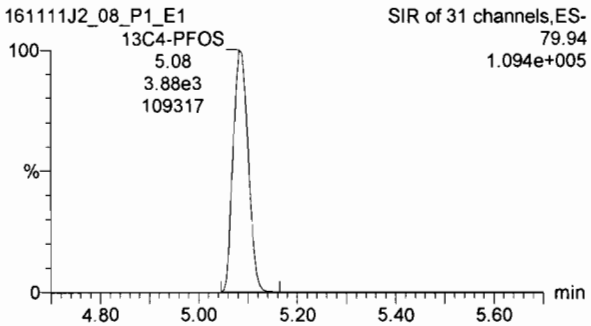
13C8-PFOA



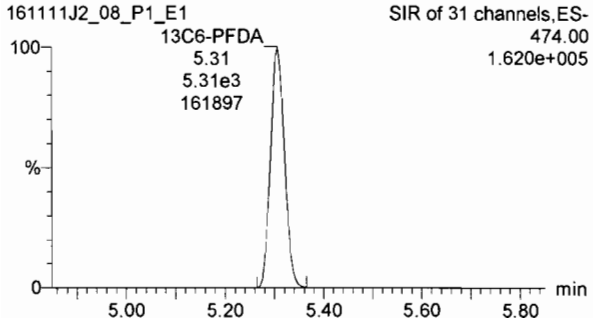
13C9-PFNA



13C4-PFOS



13C6-PFDA

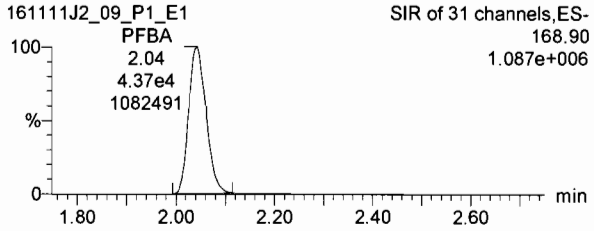


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

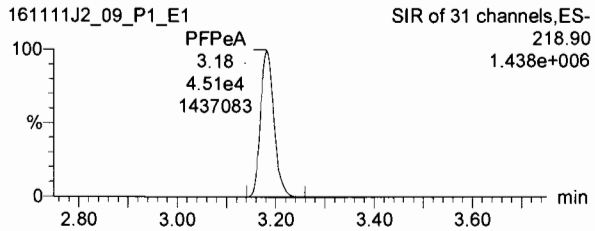
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_09.wiff, Date: 11-Nov-2016, Time: 18:05:09, ID: ST161111J2-8 PFC CS4 16K1121, Description: PFC CS4 16K1121 A

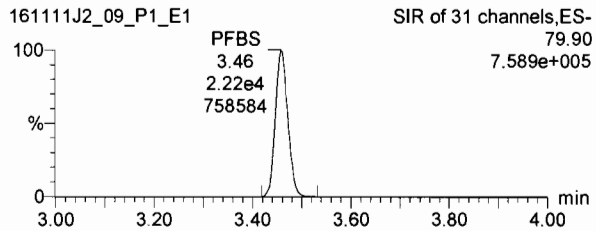
PFBA



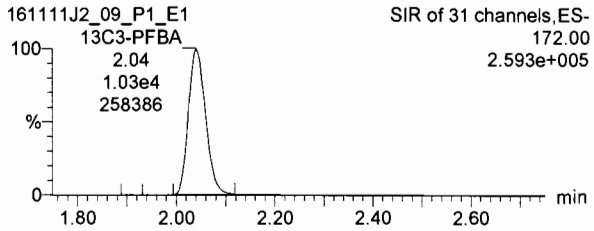
PFPeA



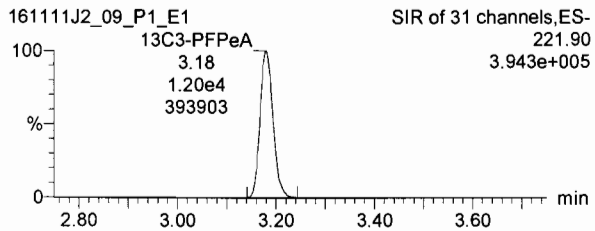
PFBS



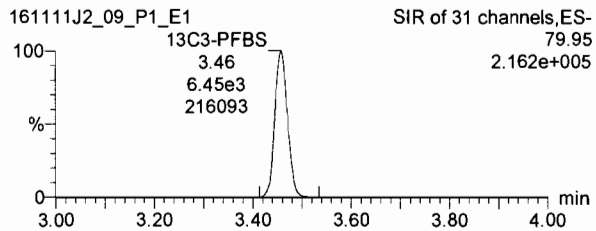
13C3-PFBA



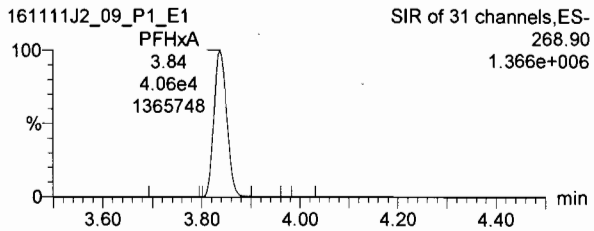
13C3-PFPeA



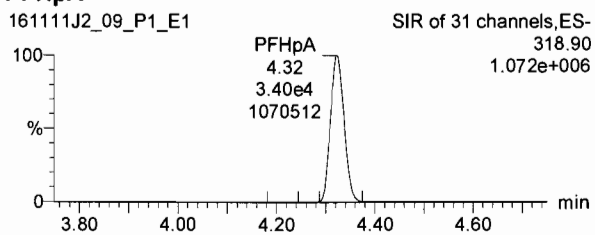
13C3-PFBS



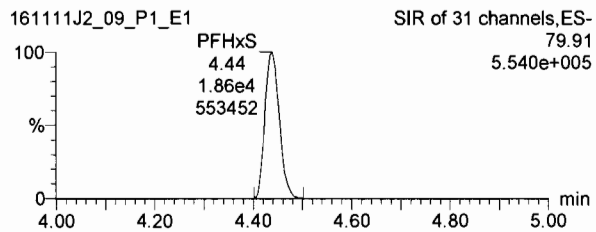
PFHxA



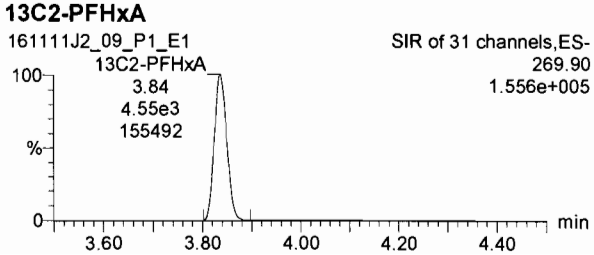
PFHpA



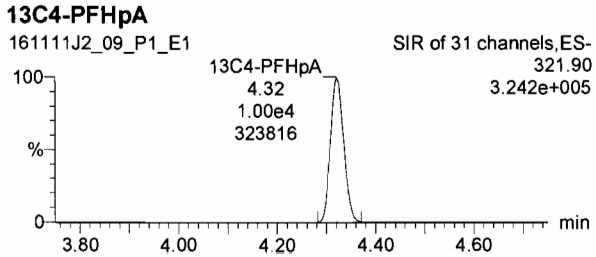
PFHxS



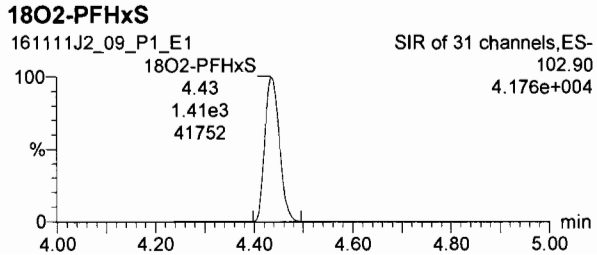
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

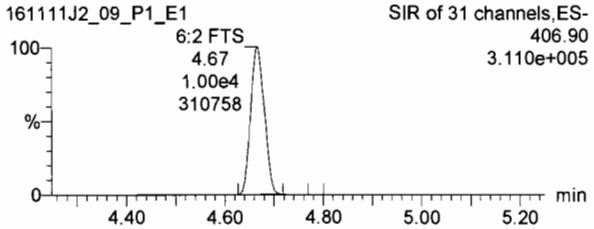


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

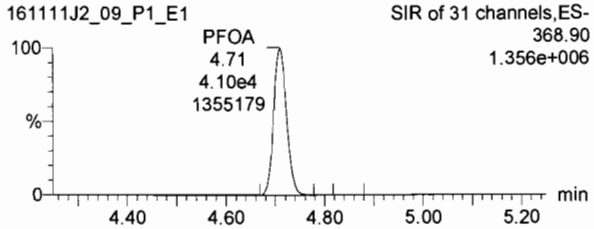
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_09.wiff, Date: 11-Nov-2016, Time: 18:05:09, ID: ST161111J2-8 PFC CS4 16K1121, Description: PFC CS4 16K1121 A

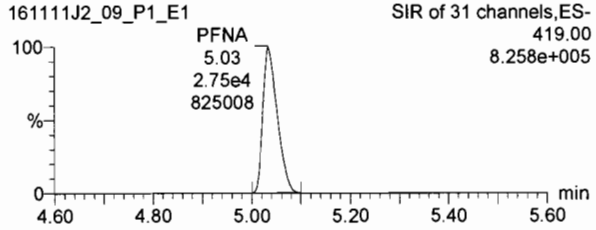
6:2 FTS



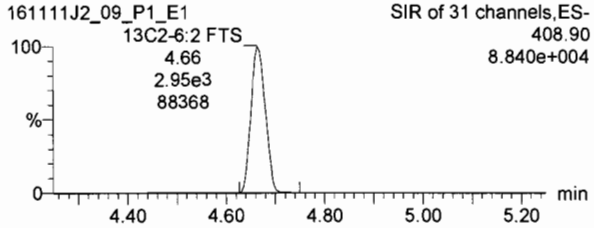
PFOA



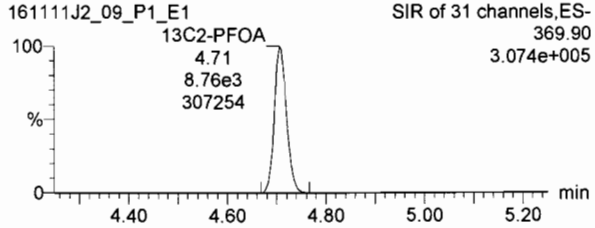
PFNA



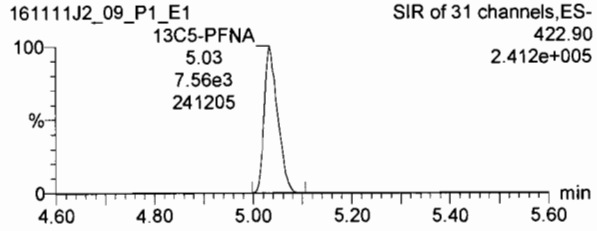
13C2-6:2 FTS



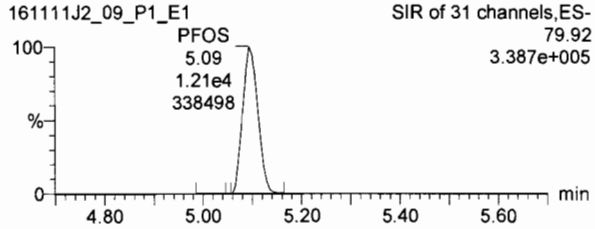
13C2-PFOA



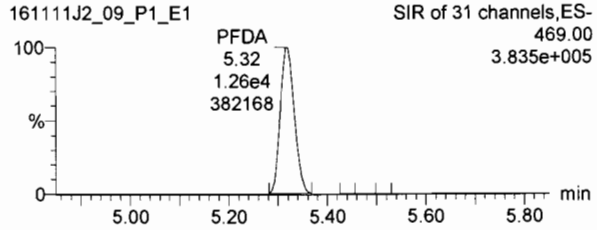
13C5-PFNA



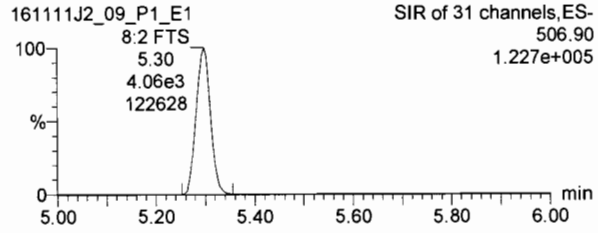
PFOS



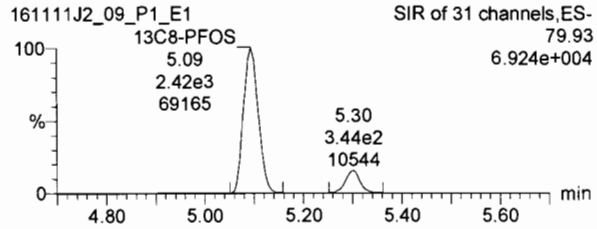
PFDA



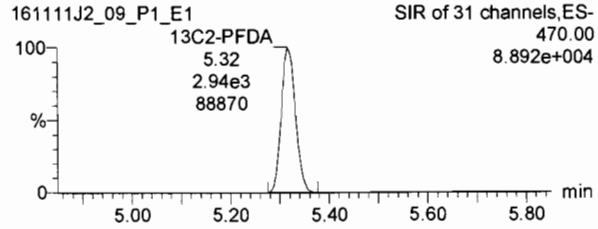
8:2 FTS



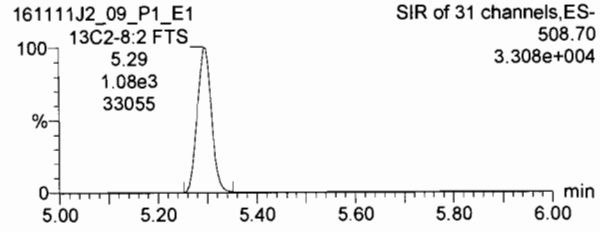
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

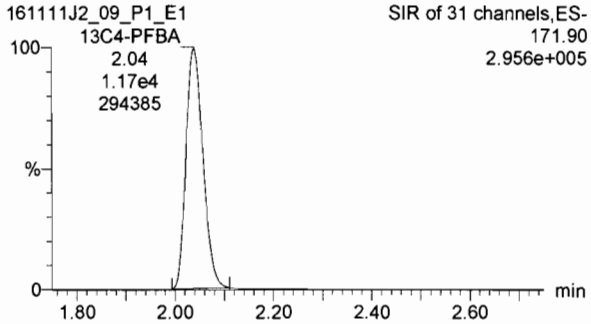


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

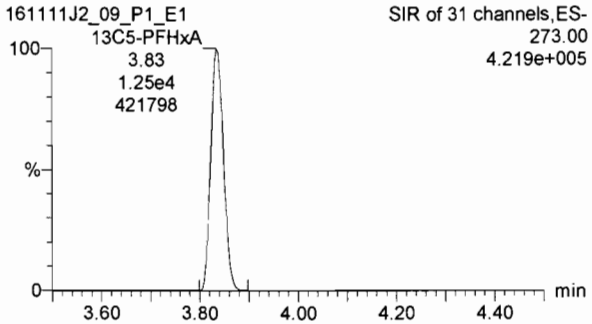
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_09.wiff, Date: 11-Nov-2016, Time: 18:05:09, ID: ST161111J2-8 PFC CS4 16K1121, Description: PFC CS4 16K1121 A

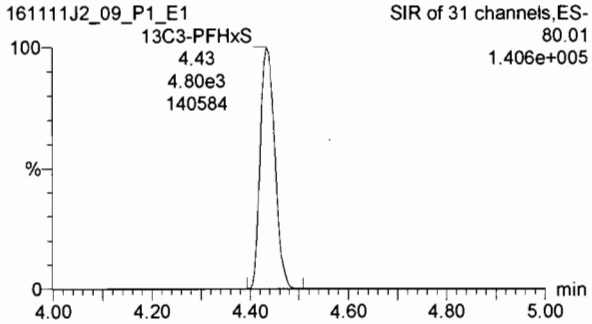
13C4-PFBA



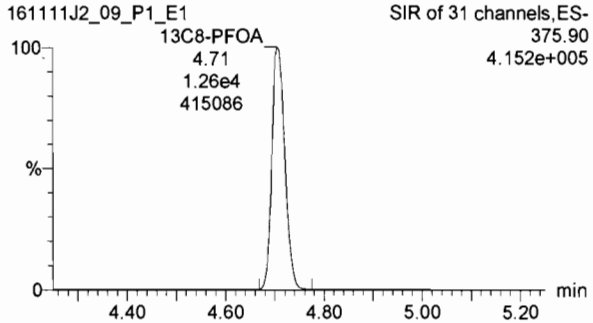
13C5-PFHxA



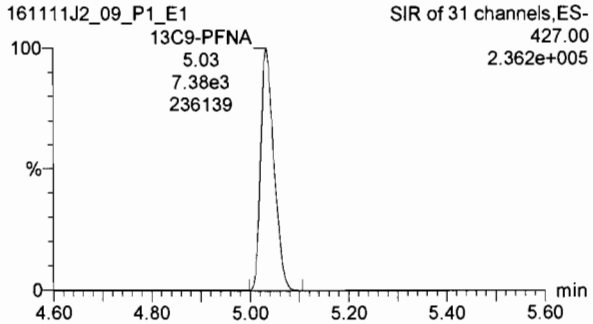
13C3-PFHxS



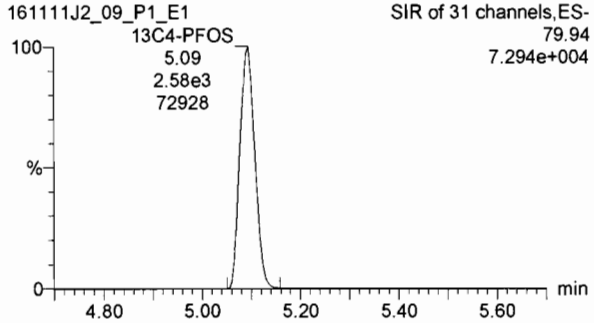
13C8-PFOA



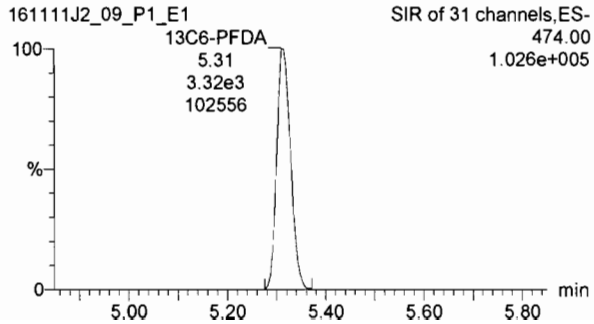
13C9-PFNA



13C4-PFOS



13C6-PFDA

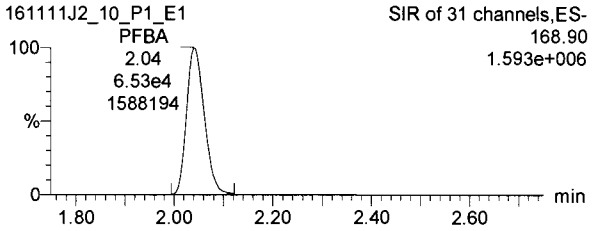


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

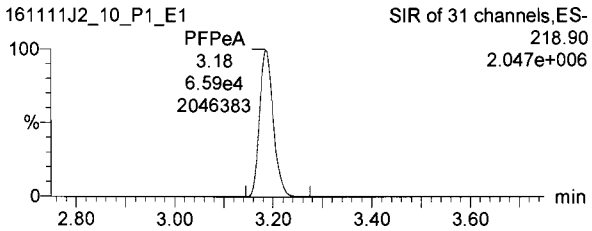
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_10.wiff, Date: 11-Nov-2016, Time: 18:17:21, ID: ST161111J2-9 PFC CS4.5 16K1122, Description: PFC CS4.5 16K1122 A

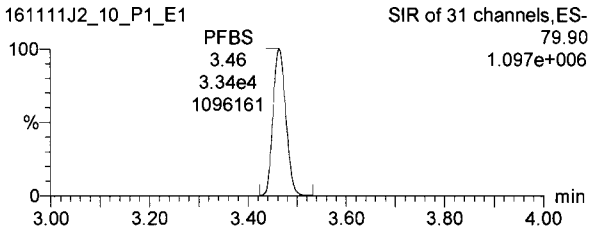
PFBA



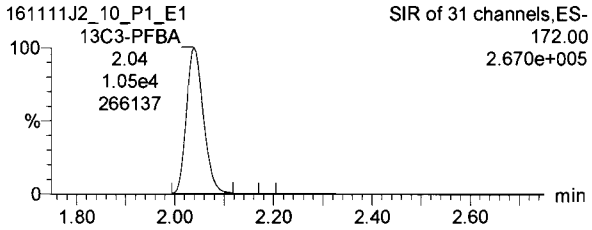
PFPeA



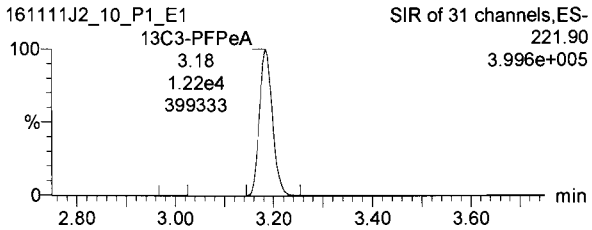
PFBS



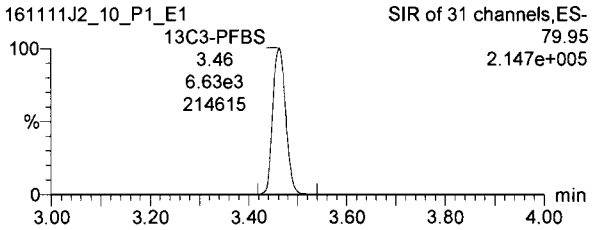
13C3-PFBA



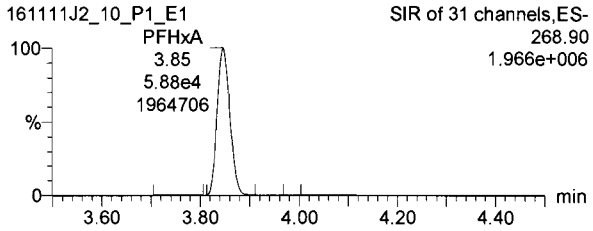
13C3-PFPeA



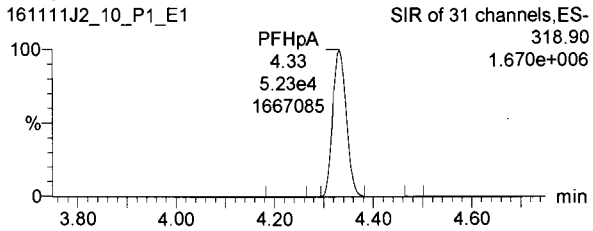
13C3-PFBS



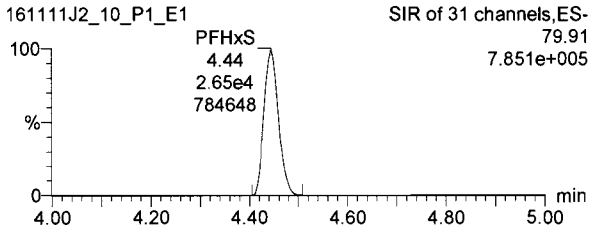
PFHxA



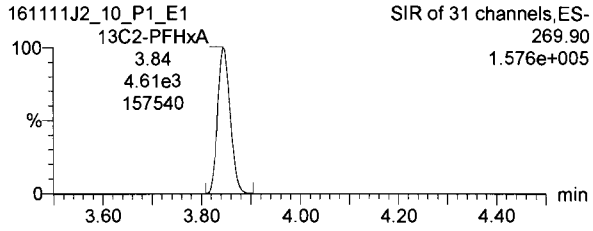
PFHpA



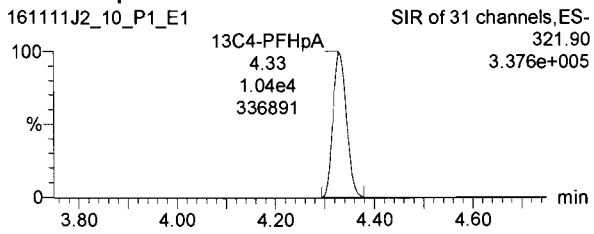
PFHxS



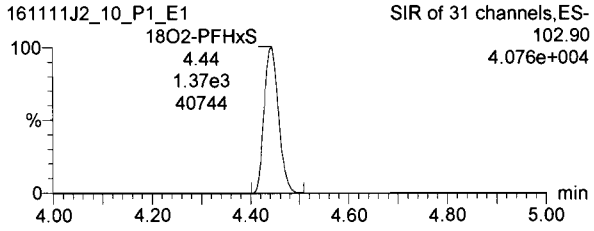
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

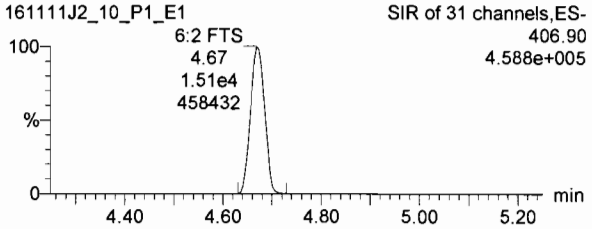


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

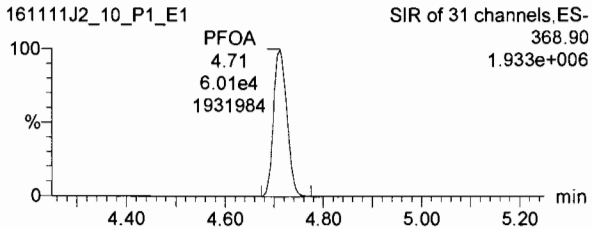
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_10.wiff, Date: 11-Nov-2016, Time: 18:17:21, ID: ST161111J2-9 PFC CS4.5 16K1122, Description: PFC CS4.5 16K1122 A

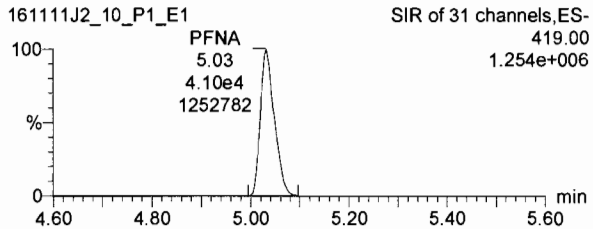
6:2 FTS



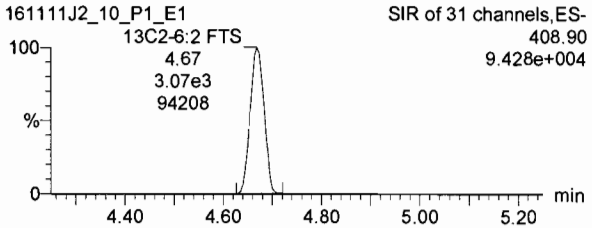
PFOA



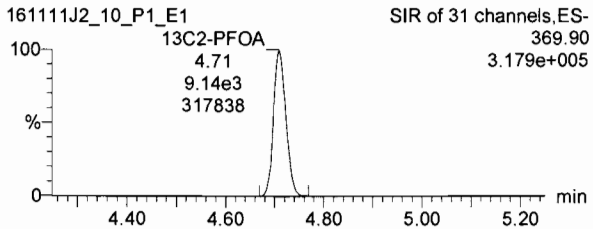
PFNA



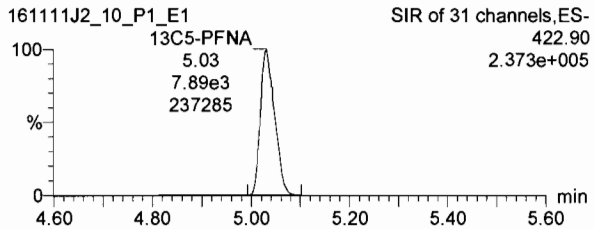
13C2-6:2 FTS



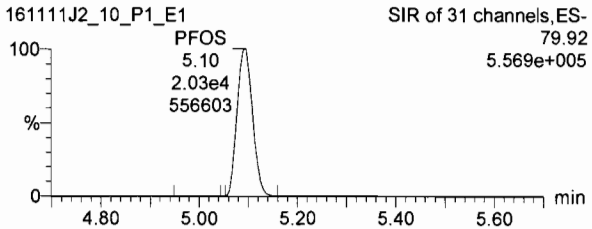
13C2-PFOA



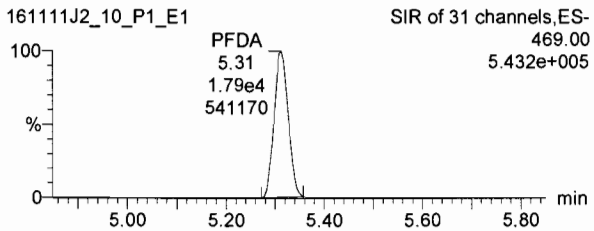
13C5-PFNA



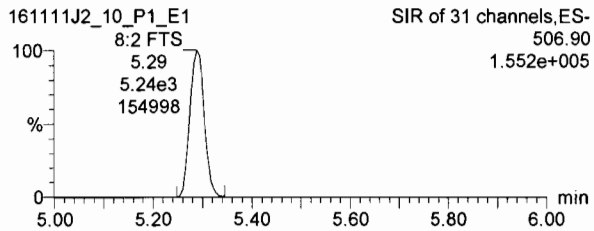
PFOS



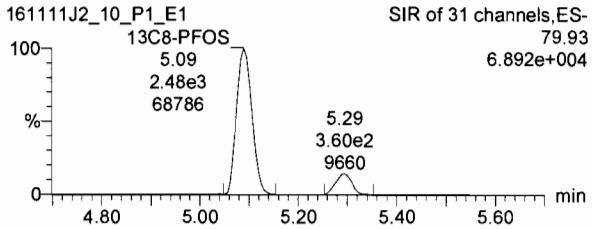
PFDA



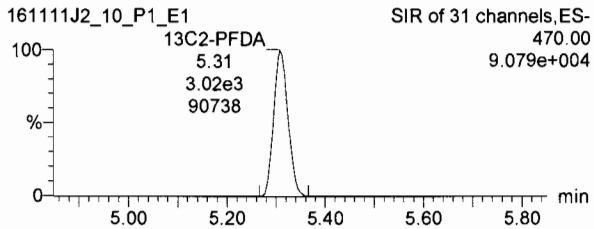
8:2 FTS



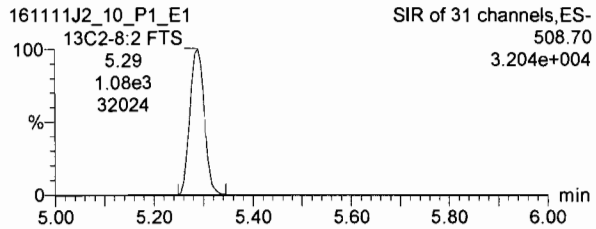
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

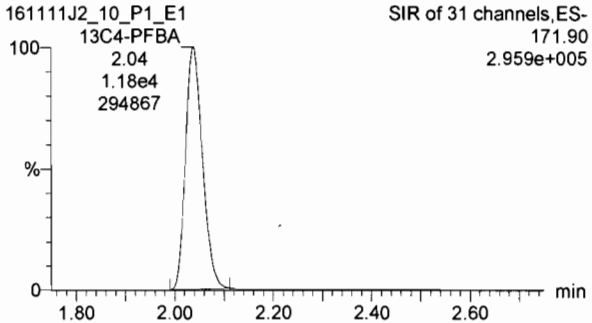


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

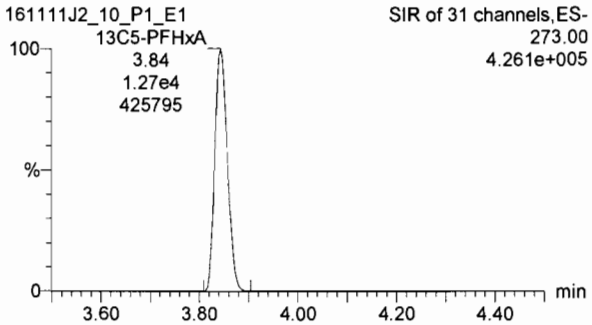
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_10.wiff, Date: 11-Nov-2016, Time: 18:17:21, ID: ST161111J2-9 PFC CS4.5 16K1122, Description: PFC CS4.5 16K1122 A

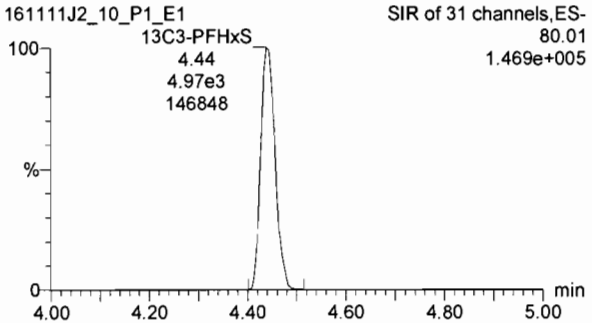
13C4-PFBA



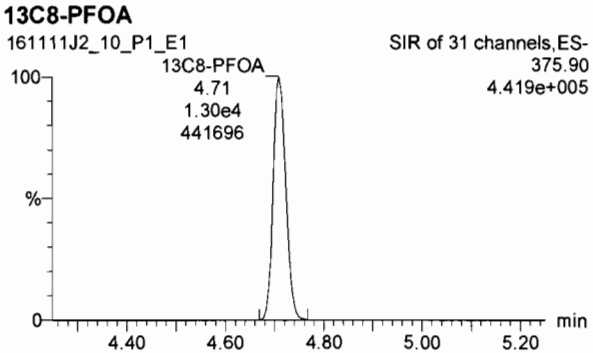
13C5-PFHxA



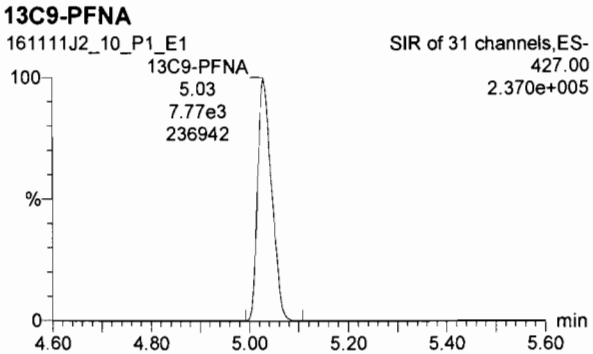
13C3-PFHxS



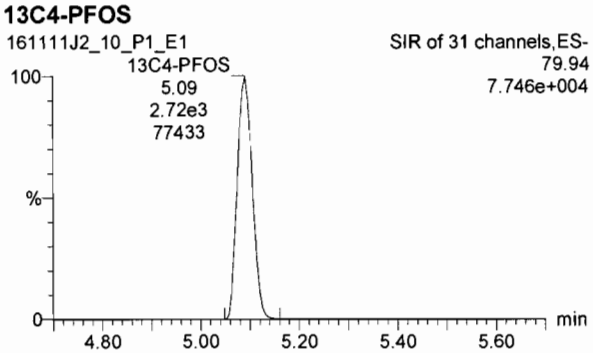
13C8-PFOA



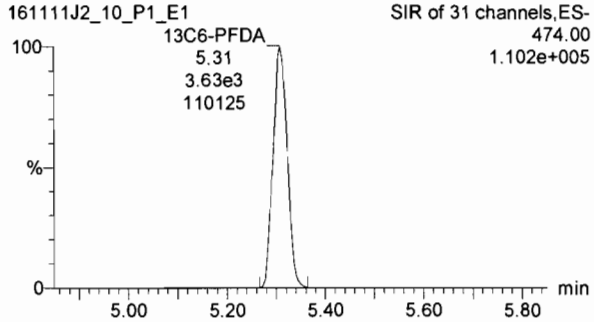
13C9-PFNA



13C4-PFOS



13C6-PFDA

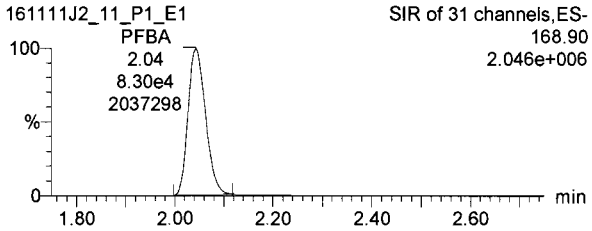


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

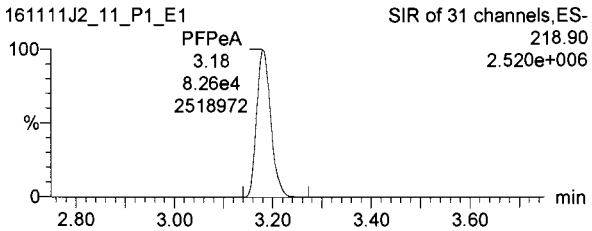
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_11.wiff, Date: 11-Nov-2016, Time: 18:29:38, ID: ST161111J2-10 PFC CS5 16K1123, Description: PFC CS5 16K1123 A

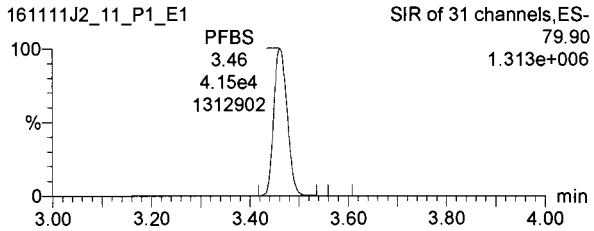
PFBA



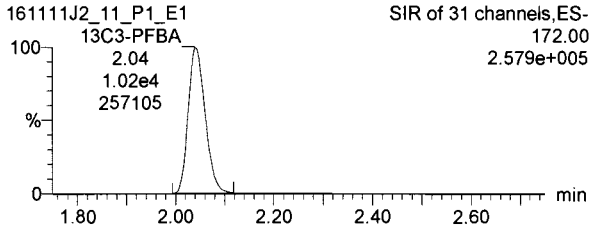
PFPeA



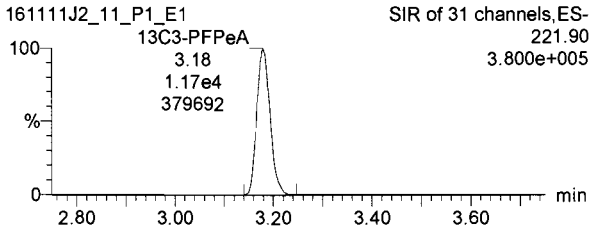
PFBS



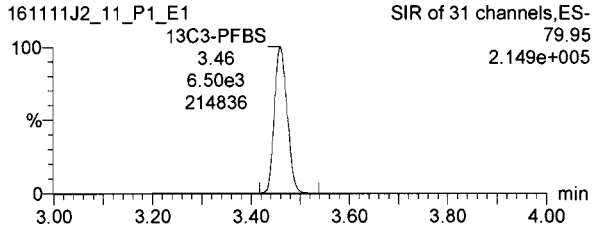
13C3-PFBA



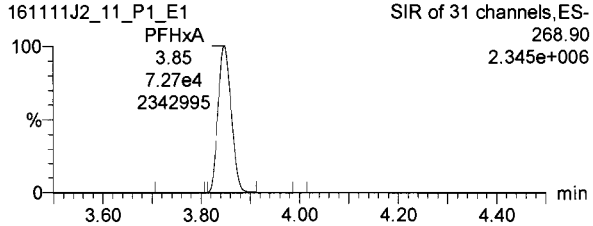
13C3-PFPeA



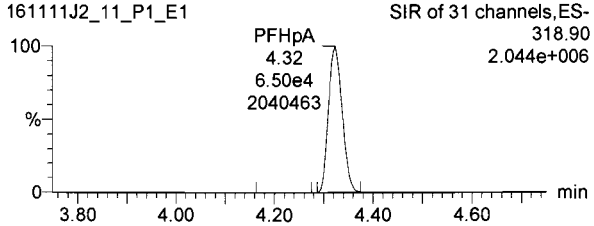
13C3-PFBS



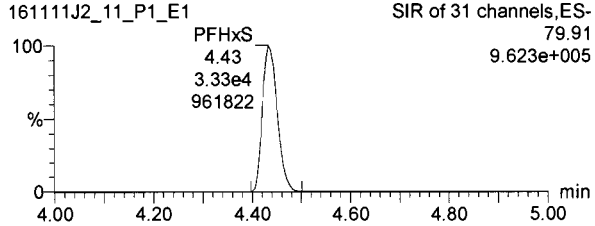
PFHxA



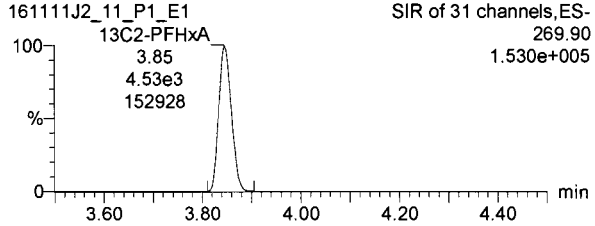
PFHpA



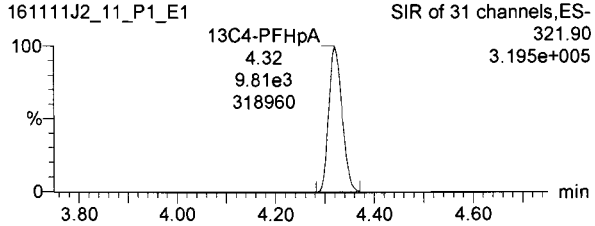
PFHxS



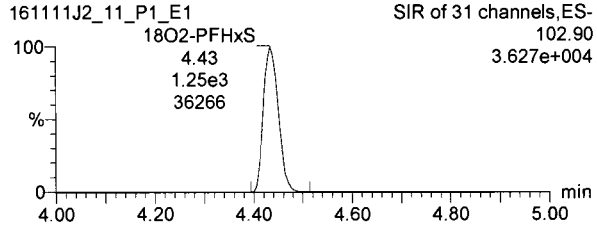
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

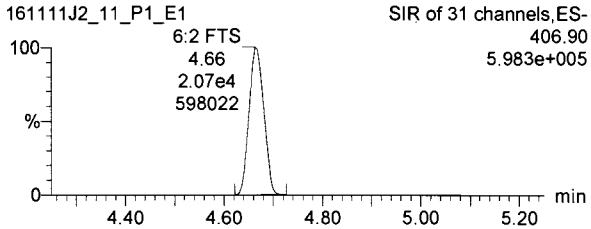


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

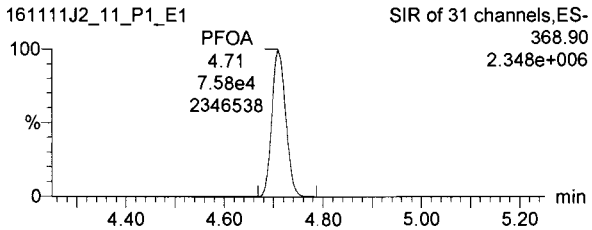
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_11.wiff, Date: 11-Nov-2016, Time: 18:29:38, ID: ST161111J2-10 PFC CS5 16K1123, Description: PFC CS5 16K1123 A

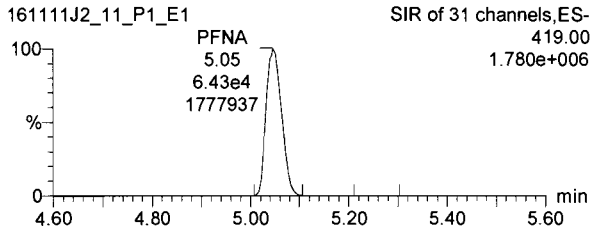
6:2 FTS



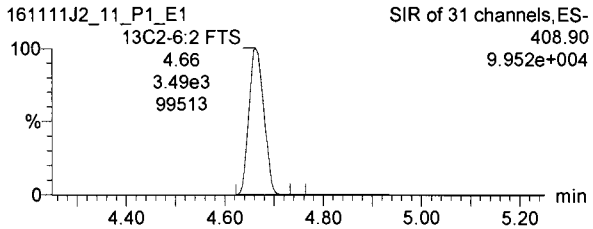
PFOA



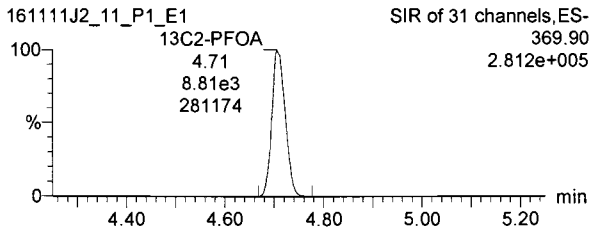
PFNA



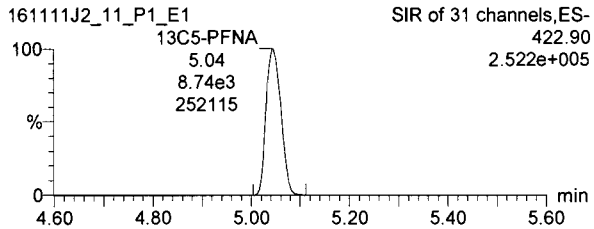
13C2-6:2 FTS



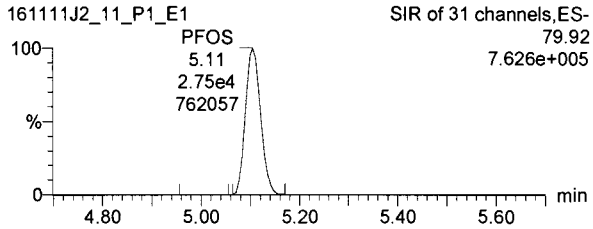
13C2-PFOA



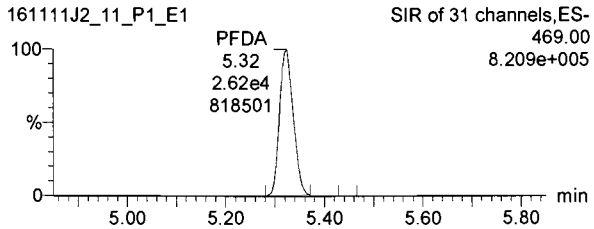
13C5-PFNA



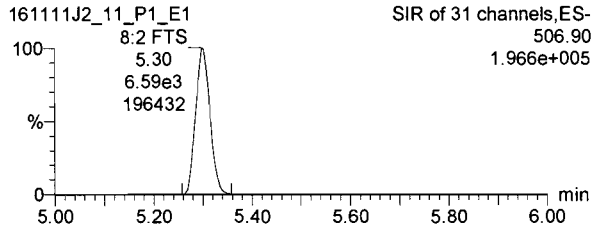
PFOS



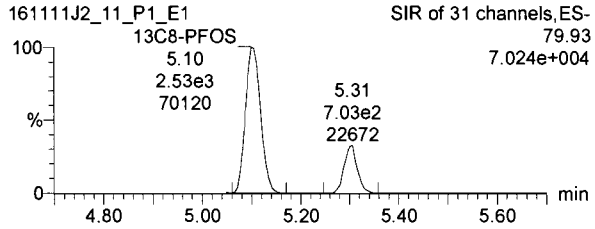
PFDA



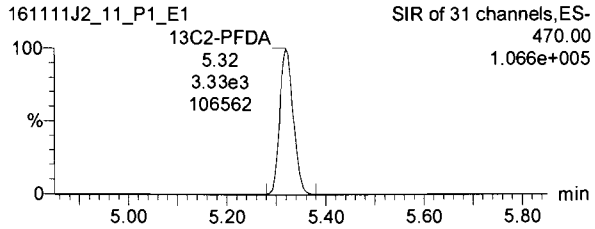
8:2 FTS



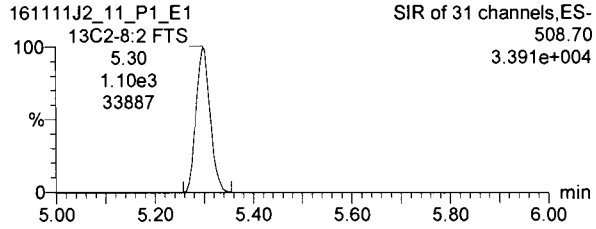
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

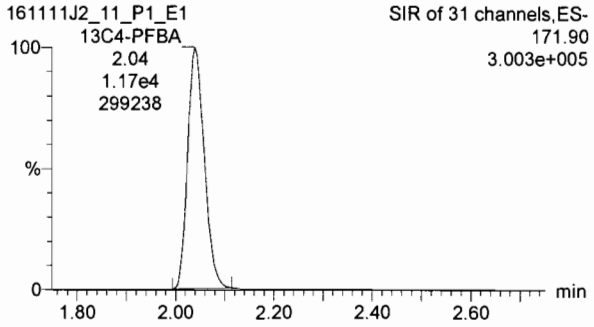


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

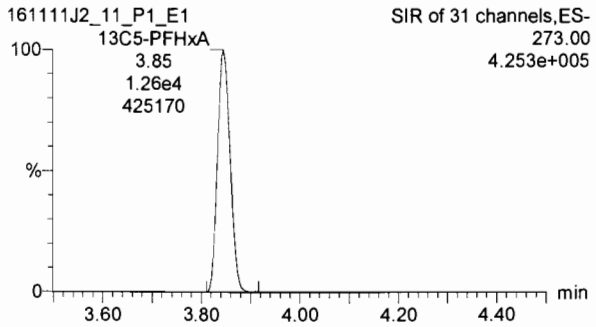
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

Name: 161111J2_11.wiff, Date: 11-Nov-2016, Time: 18:29:38, ID: ST161111J2-10 PFC CS5 16K1123, Description: PFC CS5 16K1123 A

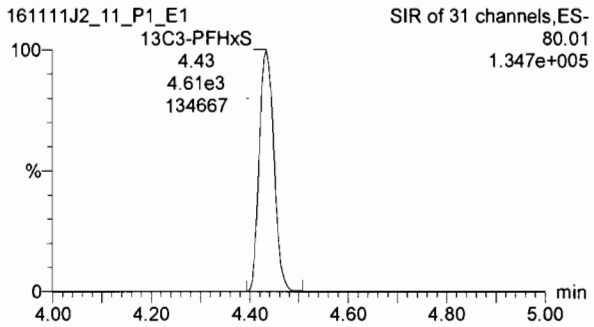
13C4-PFBA



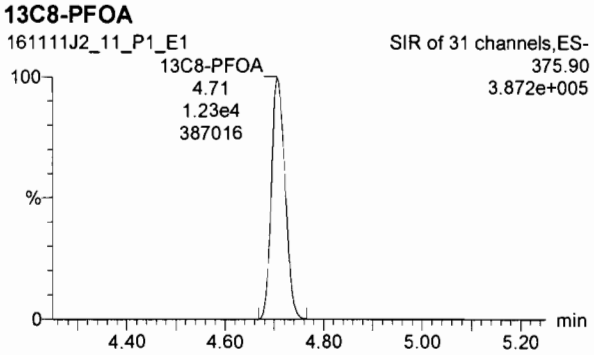
13C5-PFHxA



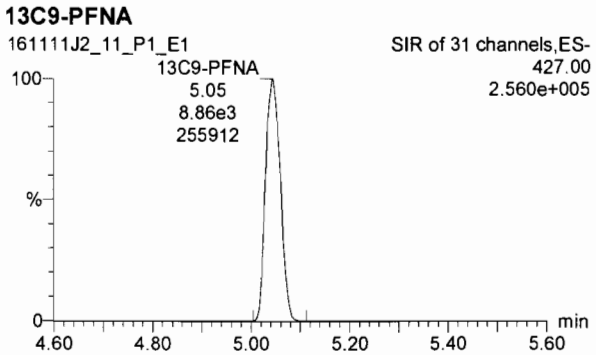
13C3-PFHxS



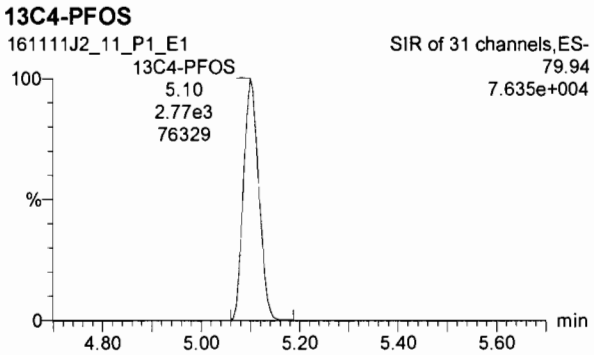
13C8-PFOA



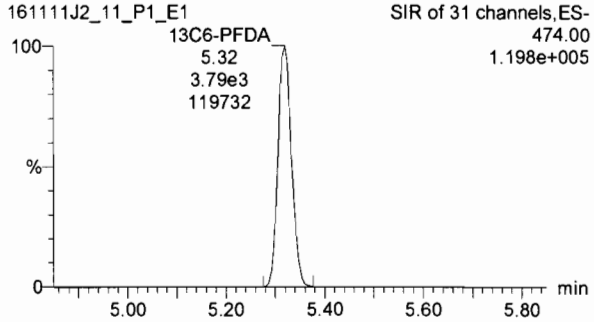
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:30 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.48e4	1.03e4		1.000	2.04	28.7	114.7	
2	2	PFPeA	218.90	1.94e4	1.18e4		1.000	3.19	22.5	89.8	
3	3	PFBS	79.90	1.14e4	6.55e3		1.000	3.46	27.8	111.0	
4	4	PFHxA	268.90	2.23e4	4.41e3		1.000	3.85	29.6	118.3	
5	5	PFHpA	318.90	1.86e4	8.83e3		1.000	4.33	31.2	125.0	
6	6	PFHxS	79.91	7.07e3	1.18e3		1.000	4.44	23.1	92.5	114.1 A
7	7	6:2 FTS	406.90	4.53e3	2.56e3		1.000	4.67	24.3	97.0	
8	8	PFOA	368.90	1.62e4	7.16e3		1.000	4.71	22.5	90.2	114.2 A
9	9	PFNA	419.00	1.27e4	6.10e3		1.000	5.03	28.8	115.2	
10	10	PFOS	79.92	4.58e3	2.00e3		1.000	5.09	22.7	90.9	115.4 A
11	11	PFDA	469.00	4.57e3	1.88e3		1.000	5.31	30.0	120.2	
12	12	8:2 FTS	506.90	1.13e3	5.74e2		1.000	5.29	23.9	95.5	
13	13	13C3-PFBA	172.00	1.03e4	1.15e4	0.894	1.000	2.04	12.6	100.4	
14	14	13C3-PFPeA	221.90	1.18e4	1.22e4	0.945	1.000	3.19	12.9	102.8	
15	15	13C3-PFBS	79.95	6.55e3	1.22e4	0.531	1.000	3.46	12.7	101.5	
16	16	13C2-PFHxA	269.90	4.41e3	1.22e4	0.905	1.000	3.85	5.01	100.2	
17	17	13C4-PFHpA	321.90	8.83e3	1.22e4	0.770	1.000	4.32	11.8	94.4	
18	18	18O2-PFHxS	102.90	1.18e3	4.46e3	0.276	1.000	4.44	12.0	95.8	
19	19	13C2-6:2 FTS	408.90	2.56e3	1.16e4	0.219	1.000	4.67	12.6	100.9	
20	20	13C2-PFOA	369.90	7.16e3	1.16e4	0.663	1.000	4.71	11.6	93.1	
21	21	13C5-PFNA	422.90	6.10e3	6.12e3	1.019	1.000	5.03	12.2	97.8	
22	22	13C8-PFOS	79.93	2.00e3	2.16e3	0.921	1.000	5.09	12.6	100.7	
23	23	13C2-PFDA	470.00	1.88e3	2.28e3	0.887	1.000	5.31	11.6	92.8	
24	24	13C2-8:2 FTS	508.70	5.74e2	2.28e3	0.272	1.000	5.29	11.6	92.4	
25	25	13C4-PFBA	171.90	1.15e4	1.15e4	1.000	1.000	2.04	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.22e4	1.22e4	1.000	1.000	3.84	12.5	100.0	
27	27	13C3-PFHxS	80.01	4.46e3	4.46e3	1.000	1.000	4.44	12.5	100.0	
28	28	13C8-PFOA	375.90	1.16e4	1.16e4	1.000	1.000	4.71	12.5	100.0	
29	29	13C4-PFOS	79.94	2.16e3	2.16e3	1.000	1.000	5.09	12.5	100.0	
30	30	13C9-PFNA	427.00	6.12e3	6.12e3	1.000	1.000	5.03	12.5	100.0	
31	31	13C6-PFDA	474.00	2.28e3	2.28e3	1.000	1.000	5.30	12.5	100.0	

Limits
75-125

PW
11/12/16

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:30 Pacific Standard Time

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

	# Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 Total PFBS	79.90		6.55e3		1.000		27.8	
33	33 Total PFHxS	79.91		1.18e3		1.000		28.0	
34	34 Total PFOA	368.90		7.16e3		1.000		26.5	
35	35 Total PFOS	79.92		2.00e3		1.000		32.1	

Quantify Totals Report MassLynx 4.1 SCN815
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:30 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.46	1.14e4	6.55e3	27.8

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.44	7.07e3	1.18e3	23.1
2	33	Total PFHxS	79.91	4.34	1.49e3	1.18e3	4.87

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.71	1.62e4	7.16e3	22.5
2	34	Total PFOA	368.90	4.62	2.98e3	7.16e3	3.96

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.09	4.58e3	2.00e3	22.7
2	35	Total PFOS	79.92	5.01	1.83e3	2.00e3	9.01
3	35	Total PFOS	79.92	4.89	8.54e1	2.00e3	0.328

Vista Analytical Laboratory Q2

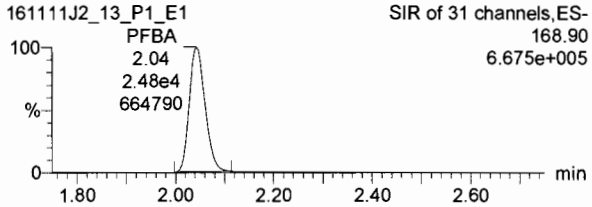
Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:42 Pacific Standard Time

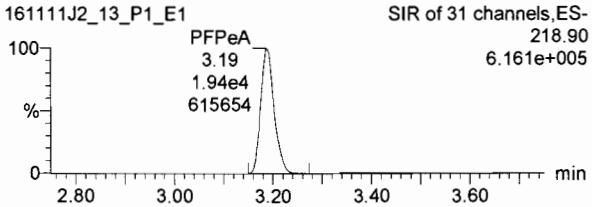
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

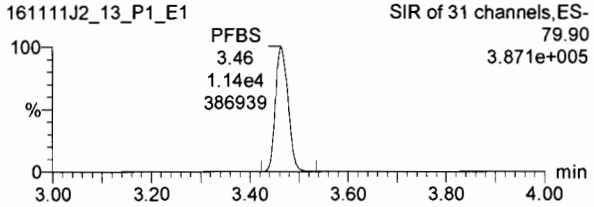
PFBA



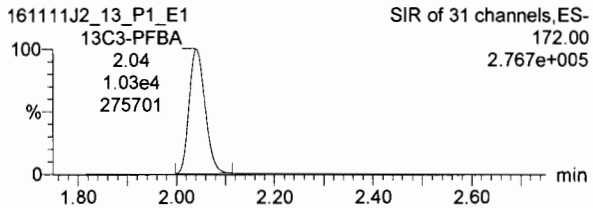
PFPeA



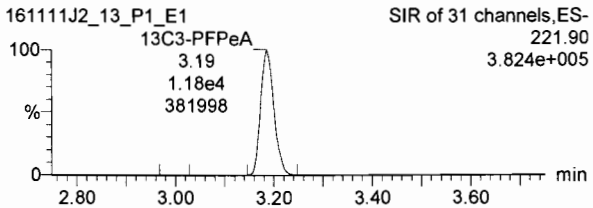
PFBS



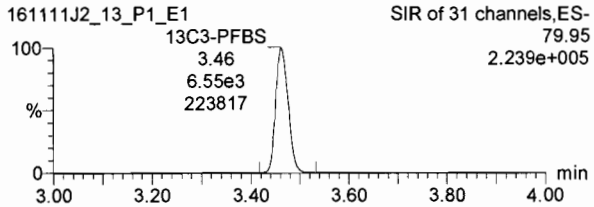
13C3-PFBA



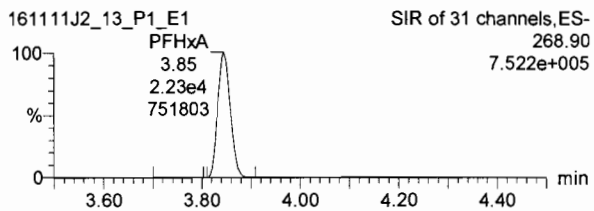
13C3-PFPeA



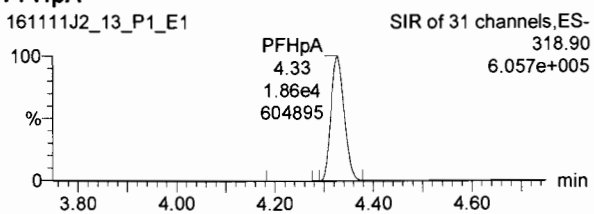
13C3-PFBS



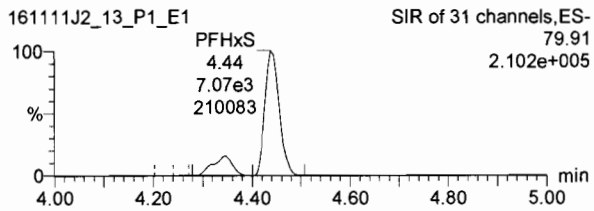
PFHxA



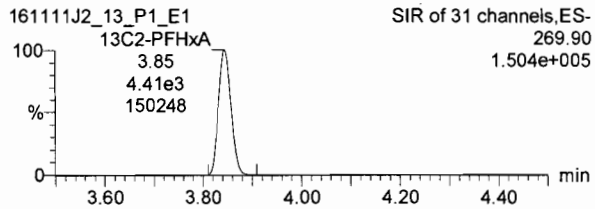
PFHpA



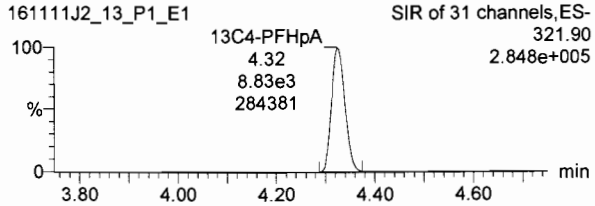
PFHxS



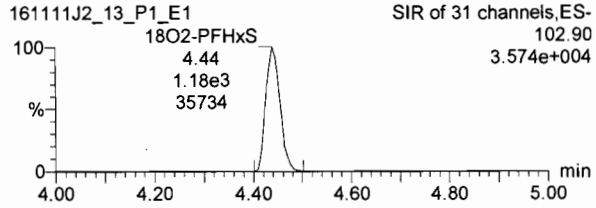
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



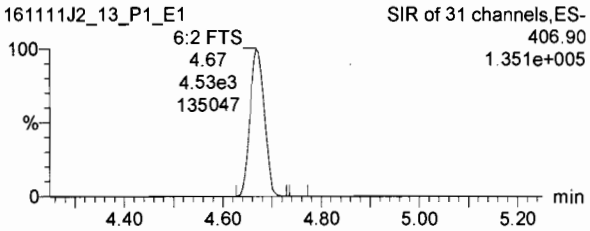
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

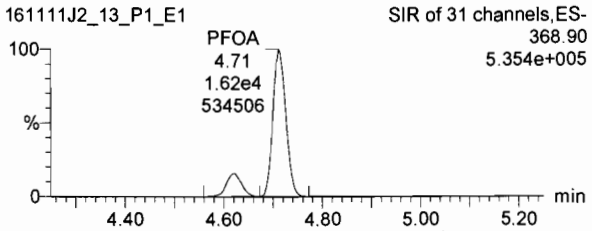
Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:42 Pacific Standard Time

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

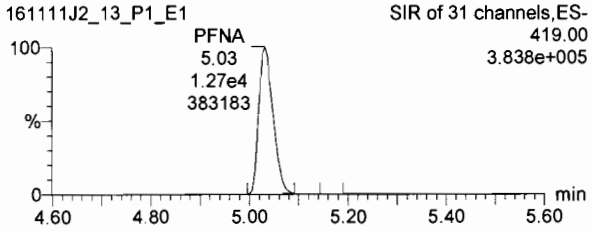
6:2 FTS



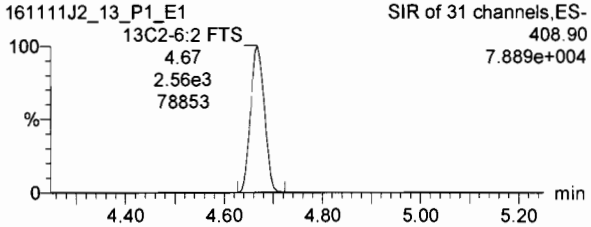
PFOA



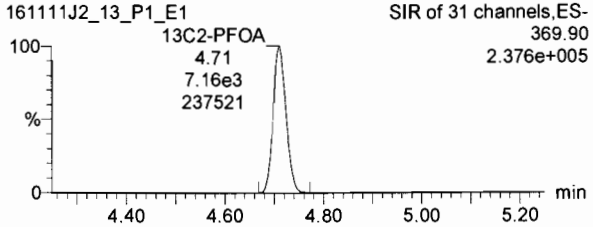
PFNA



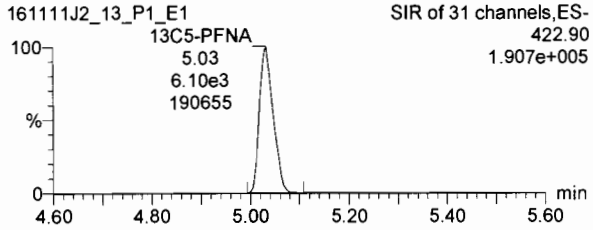
13C2-6:2 FTS



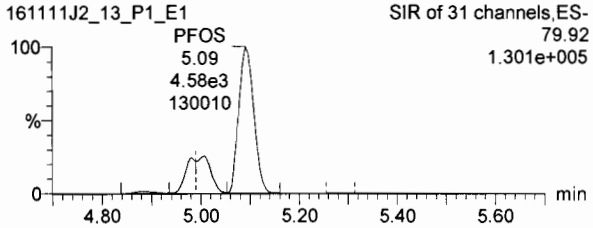
13C2-PFOA



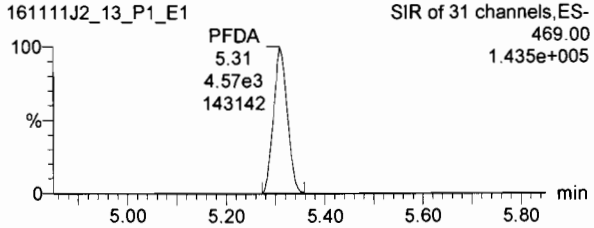
13C5-PFNA



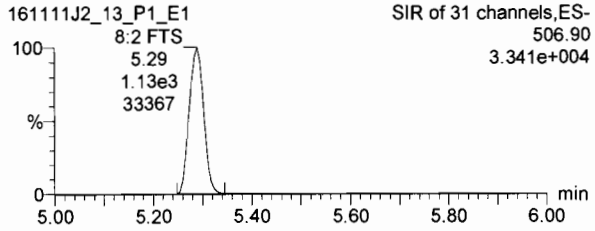
PFOS



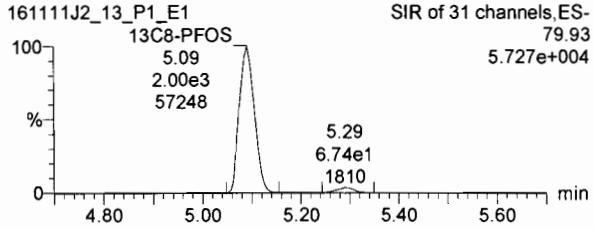
PFDA



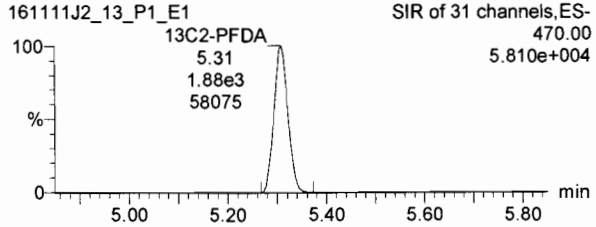
8:2 FTS



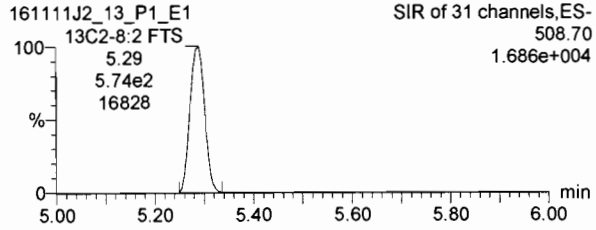
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



TargetLynx - 161111J2_13.qld

File Edit View Display Processing Window Help

161111J2_13_P1_E1 - SS161111J2-1 PFC SSS 16J1810 - PFC SSS 16J1810 A

	Name	Trace	Area	RRF	%Vol.	Pred RT	RT	Conc.	>MDL	%Rec	DL
13	13C3-PFBA	172.00	1.03e4	0.894	1.000	2.04	2.04	12.6	YES	100.4	0.0045669
14	13C3-PFPeA	221.90	1.18e4	0.945	1.000	3.22	3.19	12.9	YES	102.8	0.0024541
15	13C3-PFBS	79.95	6.55e3	0.531	1.000	3.47	3.46	12.7	NO	101.5	0.0026271
16	13C2-PFHxA	269.90	4.41e3	0.905	1.000	3.84	3.85	5.01	YES	100.2	0.0008500
17	13C4-PFHpA	321.90	8.83e3	0.770	1.000	4.32	4.32	11.8	NO	94.4	0.0016505
18	18O2-PFHxS	102.90	1.18e3	0.276	1.000	4.44	4.44	12.0	NO	95.8	0.0007519
19	13C2-6:2 FTS	408.90	2.56e3	0.219	1.000	4.67	4.67	12.6	YES	100.9	0.0013929
20	13C2-PFOA	369.90	7.16e3	0.663	1.000	4.71	4.71	11.6	NO	93.1	0.0025245
21	13C5-PFNA	422.90	6.10e3	1.02	1.000	5.03	5.03	12.2	NO	97.8	0.0000000
22	13C8-PFOS	79.93	2.00e3	0.921	1.000	5.09	5.09	12.6	NO	100.7	0.0000000
23	13C2-PFDA	470.00	1.88e3	0.887	1.000	5.30	5.31	11.6	YES	92.8	0.0027452
24	13C2-8:2 FTS	508.70	5.74e2	0.272	1.000	5.26	5.29	11.6	YES	92.4	0.0081746
25	13C4-PFBA	171.90	1.15e4	1.00	1.000	2.03	2.04	12.5	YES	100.0	0.0028244
26	13C5-PFHxA	273.00	1.22e4	1.00	1.000	3.83	3.84	12.5	NO	100.0	0.0003769
27	13C3-PFHxS	80.01	4.46e3	1.00	1.000	4.43	4.44	12.5	NO	100.0	0.0019699
28	13C8-PFOA	375.90	1.16e4	1.00	1.000	4.71	4.71	12.5	NO	100.0	0.0008556
29	13C4-PFOS	79.94	2.16e3	1.00	1.000	5.15	5.09	12.5	NO	100.0	0.0015666
30	13C9-PFNA	427.00	6.12e3	1.00	1.000	5.15	5.03	12.5	NO	100.0	0.0007206
31	13C6-PFDA	474.00	2.28e3	1.00	1.000	5.33	5.30	12.5	YES	100.0	0.0111878
32	Total PFBS	79.90	1.14e4		1.000	3.59		27.8	NO		
33	Total PFHxS	79.91	8.56e3		1.000	4.66		28.0	NO		
34	Total PFOA	368.90	1.92e4		1.000	4.82		26.5	NO		
35	Total PFOS	79.92	6.46e3		1.000	5.27		32.1	NO		

Chromatogram

161111J2_13_P1_E1 Smooth(Mn,1x2)
PFC SSS 16J1810 A SS161111J2-1 PFC SSS 16J1810

Total PFOS
4.89
85.44
8.54e1
2133
bd
235.78

SIR of 31 channels,ES-
79.92
4.527e+003

161111J2_13_P1_E1 Smooth(Mn,1x2)
PFC SSS 16J1810 A SS161111J2-1 PFC SSS 16J1810

13C8-PFOS;5.09,2003.96;2.00e3;57248;bb

5.29

SIR of 31 channels,ES-
79.93
5.727e+004

Ready

161111J2_13_P1_E1

NUM

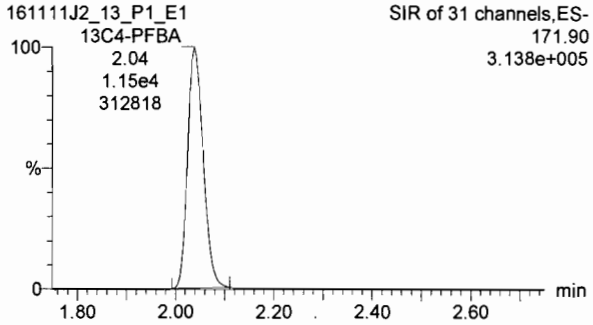
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

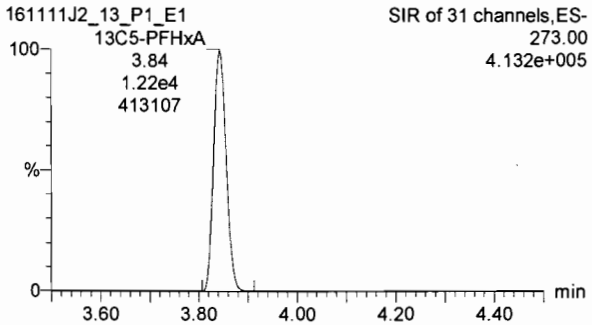
Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:42 Pacific Standard Time

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

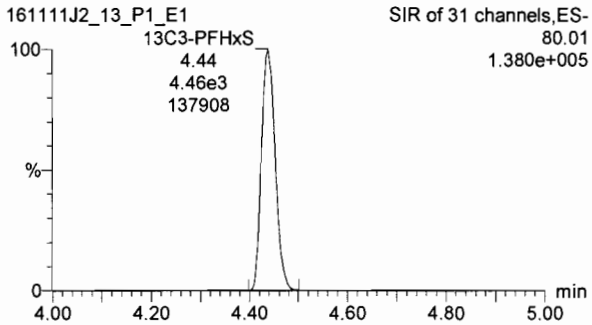
13C4-PFBA



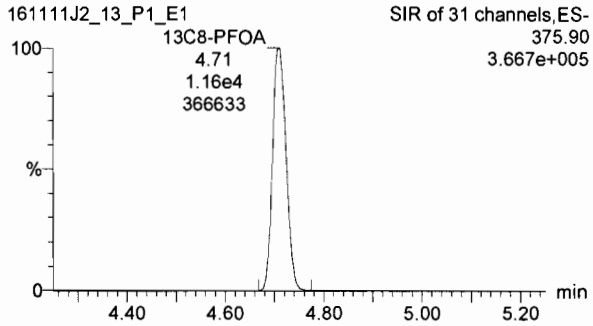
13C5-PFHxA



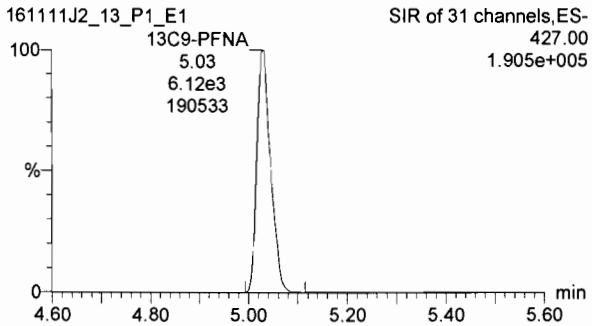
13C3-PFHxS



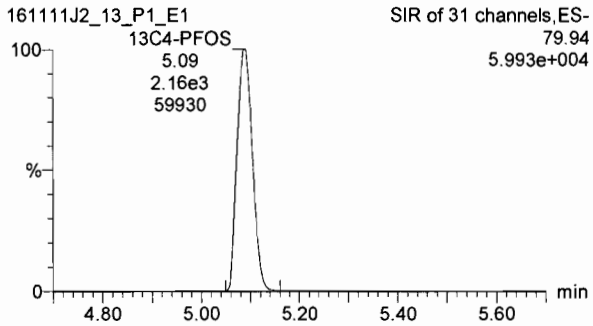
13C8-PFOA



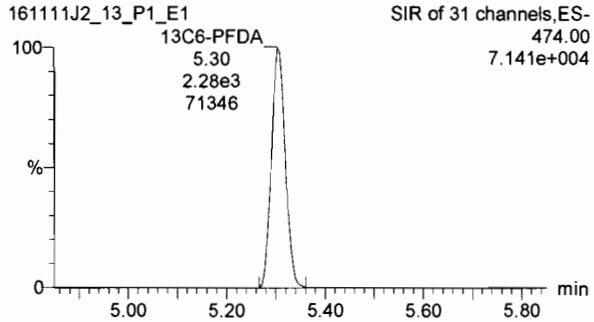
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:05
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA
Correlation coefficient: r = 0.999216, r^2 = 0.998432
Calibration curve: 0.492927 * x + -0.0410615
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	1.93	4.29e2	2.07e4	0.608	0.518	21.7
2	2 161122G2_3	1.00	1.93	7.79e2	2.25e4	0.959	0.432	-4.1
3	3 161122G2_4	2.00	1.93	1.63e3	2.32e4	1.86	0.439	-6.8
4	4 161122G2_5	5.00	1.93	3.55e3	2.31e4	3.97	0.383	-20.6
5	5 161122G2_6	10.0	1.93	8.96e3	2.17e4	10.6	0.516	5.6
6	6 161122G2_7	25.0	1.93	1.94e4	1.87e4	26.4	0.519	5.5
7	7 161122G2_8	50.0	1.93	3.75e4	1.90e4	50.0	0.492	0.0
8	8 161122G2_9	75.0	1.93	5.74e4	1.98e4	73.5	0.482	-2.0
9	9 161122G2_10	100	1.93	7.24e4	1.83e4	101	0.496	0.7

AC
11/22/16

CS 4.5 & 5 excluded from 6:2FTS regression.

Compound name: PFPeA
Correlation coefficient: r = 0.999341, r^2 = 0.998683
Calibration curve: 1.00273 * x + -0.119981
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	2.85	3.66e2	9.28e3	0.611	0.986	22.2
2	2 161122G2_3	1.00	2.85	6.80e2	9.67e3	0.996	0.879	-0.4
3	3 161122G2_4	2.00	2.86	1.32e3	9.90e3	1.79	0.836	-10.6
4	4 161122G2_5	5.00	2.85	3.20e3	1.02e4	4.02	0.782	-19.6
5	5 161122G2_6	10.0	2.85	8.05e3	9.55e3	10.6	1.05	6.4
6	6 161122G2_7	25.0	2.85	1.68e4	8.18e3	25.7	1.03	2.7
7	7 161122G2_8	50.0	2.85	3.26e4	8.27e3	49.3	0.986	-1.5
8	8 161122G2_9	75.0	2.85	4.96e4	8.14e3	76.0	1.01	1.4
9	9 161122G2_10	100	2.85	5.76e4	7.23e3	99.5	0.996	-0.5

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: PFBS
Correlation coefficient: r = 0.999283, r^2 = 0.998566
Calibration curve: 1.79216 * x + -0.145672
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	3.10	4.84e2	6.26e3	0.620	1.93	24.1
2	2 161122G2_3	1.00	3.10	8.53e2	6.27e3	1.03	1.70	3.1
3	3 161122G2_4	2.00	3.10	1.59e3	6.78e3	1.72	1.47	-14.0
4	4 161122G2_5	5.00	3.10	4.15e3	7.36e3	4.01	1.41	-19.7
5	5 161122G2_6	10.0	3.10	9.73e3	6.40e3	10.7	1.90	7.0
6	6 161122G2_7	25.0	3.10	2.06e4	5.76e3	25.0	1.79	-0.1
7	7 161122G2_8	50.0	3.10	3.75e4	5.35e3	48.9	1.75	-2.2
8	8 161122G2_9	75.0	3.10	5.77e4	5.29e3	76.2	1.82	1.6
9	9 161122G2_10	100	3.10	7.03e4	4.89e3	100	1.80	0.4

Compound name: PFHxA
Correlation coefficient: r = 0.999245, r^2 = 0.998491
Calibration curve: 0.598427 * x + 0.0095449
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	3.47	3.91e2	5.21e3	0.612	0.751	22.3
2	2 161122G2_3	1.00	3.47	6.55e2	5.44e3	0.989	0.602	-1.1
3	3 161122G2_4	2.00	3.47	1.13e3	5.54e3	1.69	0.512	-15.3
4	4 161122G2_5	5.00	3.47	2.82e3	5.55e3	4.23	0.508	-15.5
5	5 161122G2_6	10.0	3.47	6.63e3	5.30e3	10.4	0.625	4.3
6	6 161122G2_7	25.0	3.47	1.40e4	4.52e3	25.9	0.621	3.6
7	7 161122G2_8	50.0	3.47	2.69e4	4.31e3	52.1	0.624	4.2
8	8 161122G2_9	75.0	3.47	4.00e4	4.48e3	74.5	0.594	-0.7
9	9 161122G2_10	100	3.47	4.95e4	4.22e3	98.0	0.587	-2.0

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: PFHpA
Correlation coefficient: r = 0.999639, r^2 = 0.999279
Calibration curve: 1.55279 * x + -0.138431
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	3.98	9.73e2	1.51e4	0.608	1.61	21.5
2	2 161122G2_3	1.00	3.98	1.74e3	1.58e4	0.979	1.38	-2.1
3	3 161122G2_4	2.00	3.98	3.68e3	1.71e4	1.82	1.34	-9.2
4	4 161122G2_5	5.00	3.98	8.49e3	1.63e4	4.28	1.30	-14.3
5	5 161122G2_6	10.0	3.98	2.03e4	1.60e4	10.3	1.58	3.0
6	6 161122G2_7	25.0	3.98	4.48e4	1.42e4	25.4	1.57	1.7
7	7 161122G2_8	50.0	3.98	8.30e4	1.36e4	49.2	1.52	-1.7
8	8 161122G2_9	75.0	3.98	1.27e5	1.35e4	75.5	1.56	0.7
9	9 161122G2_10	100	3.98	1.54e5	1.23e4	100	1.56	0.4

Compound name: PFHxS
Correlation coefficient: r = 0.998761, r^2 = 0.997524
Calibration curve: 1.72095 * x + -0.0266266
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.09	4.64e2	6.01e3	0.576	1.93	15.3
2	2 161122G2_3	1.00	4.09	8.63e2	6.30e3	1.01	1.71	1.1
3	3 161122G2_4	2.00	4.09	1.70e3	7.02e3	1.78	1.51	-11.2
4	4 161122G2_5	5.00	4.09	3.79e3	6.33e3	4.36	1.49	-12.8
5	5 161122G2_6	10.0	4.09	8.81e3	6.15e3	10.4	1.79	4.1
6	6 161122G2_7	25.0	4.09	2.00e4	5.33e3	27.2	1.87	8.9
7	7 161122G2_8	50.0	4.09	3.53e4	5.46e3	47.1	1.62	-5.9
8	8 161122G2_9	75.0	4.09	5.41e4	5.36e3	73.4	1.68	-2.2
9	9 161122G2_10	100	4.09	7.00e4	4.95e3	103	1.77	2.7

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.978941
Calibration curve: 0.00135992 * x^2 + 0.414129 * x + -0.114975
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.33	4.92e1	6.03e3	0.523	0.204	4.6
2	2 161122G2_3	1.00	4.33	1.34e2	6.29e3	0.919	0.267	-8.1
3	3 161122G2_4	2.00	4.33	3.55e2	6.05e3	2.03	0.366	1.7
4	4 161122G2_5	5.00	4.32	9.08e2	6.94e3	4.17	0.327	-16.6
5	5 161122G2_6	10.0	4.32	1.95e3	5.43e3	10.7	0.449	7.3
6	6 161122G2_7	25.0	4.32	5.91e3	5.54e3	29.6	0.534	18.5
7	7 161122G2_8	50.0	4.32	9.32e3	5.35e3	45.9	0.436	-8.1
8	8 161122G2_9	75.0	4.32	1.61e4	7.05e3	58.2	0.381	-22.5
9	9 161122G2_10	100	4.32	2.02e4	6.58e3	74.5	0.383	-25.5

Compound name: PFOA
Correlation coefficient: r = 0.999524, r^2 = 0.999048
Calibration curve: 0.899906 * x + 0.0917344
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.37	1.09e3	2.40e4	0.527	1.13	5.5
2	2 161122G2_3	1.00	4.37	2.24e3	2.87e4	0.983	0.976	-1.7
3	3 161122G2_4	2.00	4.37	4.08e3	2.79e4	1.93	0.915	-3.4
4	4 161122G2_5	5.00	4.37	9.24e3	2.85e4	4.40	0.811	-11.9
5	5 161122G2_6	10.0	4.37	2.04e4	2.60e4	10.8	0.982	8.1
6	6 161122G2_7	25.0	4.37	4.59e4	2.44e4	26.0	0.941	4.2
7	7 161122G2_8	50.0	4.37	8.53e4	2.35e4	50.3	0.908	0.7
8	8 161122G2_9	75.0	4.37	1.30e5	2.38e4	75.6	0.908	0.8
9	9 161122G2_10	100	4.37	1.53e5	2.17e4	97.9	0.882	-2.1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: PFHpS
Correlation coefficient: r = 0.997800, r^2 = 0.995604
Calibration curve: 0.0921515 * x + -0.0228444
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.45	5.82e1	2.40e4	0.577	0.0606	15.3
2	2 161122G2_3	1.00	4.45	1.24e2	2.87e4	0.834	0.0540	-16.6
3	3 161122G2_4	2.00	4.45	3.98e2	2.79e4	2.18	0.0892	9.2
4	4 161122G2_5	5.00	4.45	9.47e2	2.85e4	4.76	0.0832	-4.8
5	5 161122G2_6	10.0	4.45	1.65e3	2.60e4	8.86	0.0794	-11.4
6	6 161122G2_7	25.0	4.45	5.10e3	2.44e4	28.6	0.105	14.5
7	7 161122G2_8	50.0	4.45	8.06e3	2.35e4	46.8	0.0858	-6.4
8	8 161122G2_9	75.0	4.45	1.27e4	2.38e4	72.8	0.0891	-3.0
9	9 161122G2_10	100	4.45	1.64e4	2.17e4	103	0.0948	3.1

Compound name: PFOS
Correlation coefficient: r = 0.996761, r^2 = 0.993532
Calibration curve: 0.83439 * x + -0.165838
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.78	1.21e2	5.26e3	0.543	0.574	8.5
2	2 161122G2_3	1.00	4.77	3.67e2	7.35e3	0.947	0.624	-5.3
3	3 161122G2_4	2.00	4.77	8.56e2	8.95e3	1.63	0.598	-18.4
4	4 161122G2_5	5.00	4.77	2.17e3	6.87e3	4.93	0.790	-1.4
5	5 161122G2_6	10.0	4.77	4.69e3	7.23e3	9.90	0.810	-1.0
6	6 161122G2_7	25.0	4.77	1.42e4	6.95e3	30.8	1.02	23.3
7	7 161122G2_8	50.0	4.78	1.92e4	5.80e3	49.9	0.830	-0.1
8	8 161122G2_9	75.0	4.77	3.52e4	7.19e3	73.6	0.817	-1.8
9	9 161122G2_10	100	4.77	4.44e4	6.93e3	96.1	0.800	-3.9

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: PFNA
Correlation coefficient: r = 0.997674, r^2 = 0.995354
Calibration curve: 1.64181 * x + -0.17063
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.72	5.63e2	1.06e4	0.509	1.33	1.7
2	2 161122G2_3	1.00	4.71	1.61e3	1.33e4	1.02	1.51	2.5
3	3 161122G2_4	2.00	4.71	3.31e3	1.23e4	2.16	1.68	7.8
4	4 161122G2_5	5.00	4.71	7.19e3	1.28e4	4.37	1.40	-12.5
5	5 161122G2_6	10.0	4.71	1.72e4	1.33e4	10.0	1.63	0.1
6	6 161122G2_7	25.0	4.71	4.06e4	1.21e4	25.6	1.67	2.3
7	7 161122G2_8	50.0	4.71	6.88e4	1.04e4	50.5	1.65	1.0
8	8 161122G2_9	75.0	4.71	1.10e5	1.23e4	68.0	1.49	-9.3
9	9 161122G2_10	100	4.71	1.49e5	1.07e4	106	1.74	6.3

Compound name: PFDA
Correlation coefficient: r = 0.998669, r^2 = 0.997340
Calibration curve: 0.596457 * x + -0.0200723
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	5.01	1.30e2	6.01e3	0.486	0.540	-2.7
2	2 161122G2_3	1.00	5.01	3.72e2	8.51e3	0.949	0.546	-5.1
3	3 161122G2_4	2.00	5.01	8.65e2	8.73e3	2.11	0.620	5.6
4	4 161122G2_5	5.00	5.01	1.70e3	8.07e3	4.44	0.526	-11.1
5	5 161122G2_6	10.0	5.01	3.83e3	7.02e3	11.5	0.683	14.8
6	6 161122G2_7	25.0	5.01	1.25e4	1.01e4	26.1	0.622	4.4
7	7 161122G2_8	50.0	5.01	1.45e4	6.60e3	46.1	0.550	-7.7
8	8 161122G2_9	75.0	5.01	3.19e4	8.88e3	75.4	0.599	0.5
9	9 161122G2_10	100	5.01	4.34e4	8.96e3	101	0.605	1.5

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.984052
Calibration curve: -0.000479329 * x^2 + 0.502189 * x + 0.00235356
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.99	4.13e1	2.12e3	0.479	0.486	-4.1
2	2 161122G2_3	1.00	4.99	1.45e2	3.66e3	0.984	0.496	-1.6
3	3 161122G2_4	2.00	4.99	2.64e2	2.69e3	2.44	0.613	22.1
4	4 161122G2_5	5.00	4.99	4.56e2	2.74e3	4.16	0.416	-16.8
5	5 161122G2_6	10.0	4.99	1.14e3	3.15e3	9.07	0.452	-9.3
6	6 161122G2_7	25.0	4.99	4.23e3	3.62e3	29.9	0.584	19.7
7	7 161122G2_8	50.0	4.99	4.24e3	2.69e3	40.8	0.394	-18.4
8	8 161122G2_9	75.0	4.99	1.23e4	3.97e3	84.1	0.518	12.1
9	9 161122G2_10	100	4.99	1.62e4	4.58e3	96.8	0.441	-3.2

Compound name: 13C3-PFBA
Response Factor: 1.20506
RRF SD: 0.0553973, Relative SD: 4.59706
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	1.93	2.07e4	1.76e4	12.2	1.18	-2.2
2	2 161122G2_3	12.5	1.93	2.25e4	1.85e4	12.6	1.22	1.0
3	3 161122G2_4	12.5	1.93	2.32e4	1.80e4	13.4	1.29	7.0
4	4 161122G2_5	12.5	1.93	2.31e4	1.91e4	12.6	1.21	0.8
5	5 161122G2_6	12.5	1.93	2.17e4	1.69e4	13.3	1.29	6.8
6	6 161122G2_7	12.5	1.93	1.87e4	1.58e4	12.3	1.18	-2.0
7	7 161122G2_8	12.5	1.93	1.90e4	1.64e4	12.1	1.16	-3.6
8	8 161122G2_9	12.5	1.93	1.98e4	1.66e4	12.4	1.20	-0.7
9	9 161122G2_10	12.5	1.93	1.83e4	1.63e4	11.6	1.12	-7.1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C3-PFPeA
Response Factor: 0.447597
RRF SD: 0.0175301, Relative SD: 3.9165
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	2.85	9.28e3	2.07e4	12.5	0.448	0.1
2	2 161122G2_3	12.5	2.85	9.67e3	2.17e4	12.4	0.445	-0.6
3	3 161122G2_4	12.5	2.85	9.90e3	2.11e4	13.1	0.469	4.8
4	4 161122G2_5	12.5	2.85	1.02e4	2.20e4	13.0	0.466	4.1
5	5 161122G2_6	12.5	2.85	9.55e3	2.15e4	12.4	0.445	-0.6
6	6 161122G2_7	12.5	2.85	8.18e3	1.89e4	12.1	0.434	-3.1
7	7 161122G2_8	12.5	2.85	8.27e3	1.78e4	13.0	0.465	3.9
8	8 161122G2_9	12.5	2.85	8.14e3	1.84e4	12.4	0.443	-1.0
9	9 161122G2_10	12.5	2.85	7.23e3	1.75e4	11.6	0.414	-7.5

Compound name: 13C3-PFBS
Response Factor: 0.302055
RRF SD: 0.0171236, Relative SD: 5.66905
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.10	6.26e3	2.07e4	12.5	0.302	0.1
2	2 161122G2_3	12.5	3.10	6.27e3	2.17e4	11.9	0.288	-4.6
3	3 161122G2_4	12.5	3.10	6.78e3	2.11e4	13.3	0.321	6.4
4	4 161122G2_5	12.5	3.10	7.36e3	2.20e4	13.8	0.335	10.8
5	5 161122G2_6	12.5	3.10	6.40e3	2.15e4	12.3	0.298	-1.4
6	6 161122G2_7	12.5	3.10	5.76e3	1.89e4	12.6	0.306	1.1
7	7 161122G2_8	12.5	3.10	5.35e3	1.78e4	12.5	0.301	-0.4
8	8 161122G2_9	12.5	3.10	5.29e3	1.84e4	11.9	0.288	-4.7
9	9 161122G2_10	12.5	3.10	4.89e3	1.75e4	11.6	0.280	-7.3

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C2-PFHxA
Response Factor: 0.619528
RRF SD: 0.0178176, Relative SD: 2.876
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	5.00	3.47	5.21e3	2.07e4	5.07	0.628	1.4
2	2 161122G2_3	5.00	3.47	5.44e3	2.17e4	5.05	0.626	1.0
3	3 161122G2_4	5.00	3.47	5.54e3	2.11e4	5.29	0.656	5.9
4	4 161122G2_5	5.00	3.47	5.55e3	2.20e4	5.09	0.631	1.8
5	5 161122G2_6	5.00	3.47	5.30e3	2.15e4	4.98	0.617	-0.4
6	6 161122G2_7	5.00	3.47	4.52e3	1.89e4	4.83	0.598	-3.4
7	7 161122G2_8	5.00	3.47	4.31e3	1.78e4	4.89	0.606	-2.2
8	8 161122G2_9	5.00	3.47	4.48e3	1.84e4	4.92	0.610	-1.5
9	9 161122G2_10	5.00	3.47	4.22e3	1.75e4	4.87	0.603	-2.6

Compound name: 13C4-PFHpA
Response Factor: 1.13869
RRF SD: 0.046436, Relative SD: 4.078
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.98	1.51e4	1.32e4	12.6	1.14	0.5
2	2 161122G2_3	12.5	3.97	1.58e4	1.36e4	12.7	1.16	1.9
3	3 161122G2_4	12.5	3.98	1.71e4	1.42e4	13.2	1.21	5.8
4	4 161122G2_5	12.5	3.97	1.63e4	1.48e4	12.1	1.10	-3.3
5	5 161122G2_6	12.5	3.97	1.60e4	1.44e4	12.2	1.11	-2.4
6	6 161122G2_7	12.5	3.97	1.42e4	1.23e4	12.7	1.16	1.7
7	7 161122G2_8	12.5	3.97	1.36e4	1.16e4	12.8	1.17	2.7
8	8 161122G2_9	12.5	3.97	1.35e4	1.17e4	12.7	1.15	1.3
9	9 161122G2_10	12.5	3.97	1.23e4	1.18e4	11.5	1.05	-8.2

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 18O2-PFHxS
Response Factor: 0.449434
RRF SD: 0.0241405, Relative SD: 5.37132
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1	161122G2_2	12.5	4.09	6.01e3	1.32e4	12.6	0.455	1.1
2	2	161122G2_3	12.5	4.09	6.30e3	1.36e4	12.9	0.463	3.1
3	3	161122G2_4	12.5	4.09	7.02e3	1.42e4	13.7	0.494	9.8
4	4	161122G2_5	12.5	4.09	6.33e3	1.48e4	11.9	0.428	-4.8
5	5	161122G2_6	12.5	4.09	6.15e3	1.44e4	11.9	0.427	-5.0
6	6	161122G2_7	12.5	4.09	5.33e3	1.23e4	12.1	0.434	-3.4
7	7	161122G2_8	12.5	4.08	5.46e3	1.16e4	13.0	0.468	4.2
8	8	161122G2_9	12.5	4.09	5.36e3	1.17e4	12.7	0.456	1.5
9	9	161122G2_10	12.5	4.09	4.95e3	1.18e4	11.7	0.420	-6.6

Compound name: 13C2-6:2 FTS
Response Factor: 1.07309
RRF SD: 0.0967215, Relative SD: 9.01333
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1	161122G2_2	12.5	4.33	6.03e3	5.89e3	11.9	1.02	-4.5
2	2	161122G2_3	12.5	4.33	6.29e3	5.82e3	12.6	1.08	0.7
3	3	161122G2_4	12.5	4.33	6.05e3	5.56e3	12.7	1.09	1.3
4	4	161122G2_5	12.5	4.32	6.94e3	5.84e3	13.8	1.19	10.8
5	5	161122G2_6	12.5	4.32	5.43e3	5.76e3	11.0	0.942	-12.2
6	6	161122G2_7	12.5	4.32	5.54e3	4.77e3	13.5	1.16	8.2
7	7	161122G2_8	12.5	4.32	5.35e3	5.78e3	10.8	0.925	-13.8
8	8	161122G2_9	12.5	4.32	7.05e3	5.95e3	13.8	1.18	10.3
9	9	161122G2_10	12.5	4.32	6.58e3	6.18e3	12.4	1.06	-0.8

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C2-PFOA
Response Factor: 2.26193
RRF SD: 0.103705, Relative SD: 4.58481
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.37	2.40e4	1.14e4	11.7	2.12	-6.4
2	2 161122G2_3	12.5	4.37	2.87e4	1.22e4	13.0	2.36	4.4
3	3 161122G2_4	12.5	4.37	2.79e4	1.22e4	12.6	2.28	0.8
4	4 161122G2_5	12.5	4.37	2.85e4	1.19e4	13.3	2.40	6.0
5	5 161122G2_6	12.5	4.37	2.60e4	1.12e4	12.9	2.33	3.0
6	6 161122G2_7	12.5	4.37	2.44e4	1.17e4	11.5	2.09	-7.7
7	7 161122G2_8	12.5	4.37	2.35e4	1.03e4	12.6	2.28	0.9
8	8 161122G2_9	12.5	4.37	2.38e4	1.06e4	12.4	2.24	-1.2
9	9 161122G2_10	12.5	4.37	2.17e4	9.56e3	12.5	2.27	0.2

Compound name: 13C8-PFOS
Response Factor: 0.943547
RRF SD: 0.0953243, Relative SD: 10.1028
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.77	5.26e3	6.09e3	11.4	0.863	-8.5
2	2 161122G2_3	12.5	4.77	7.35e3	8.00e3	12.2	0.918	-2.7
3	3 161122G2_4	12.5	4.77	8.95e3	7.63e3	15.5	1.17	24.2
4	4 161122G2_5	12.5	4.77	6.87e3	7.71e3	11.8	0.892	-5.5
5	5 161122G2_6	12.5	4.77	7.23e3	7.12e3	13.5	1.02	7.6
6	6 161122G2_7	12.5	4.77	6.95e3	7.59e3	12.1	0.917	-2.9
7	7 161122G2_8	12.5	4.77	5.80e3	6.40e3	12.0	0.906	-4.0
8	8 161122G2_9	12.5	4.77	7.19e3	7.90e3	12.1	0.910	-3.5
9	9 161122G2_10	12.5	4.77	6.93e3	7.73e3	11.9	0.898	-4.9

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C5-PFNA
Response Factor: 1.08198
RRF SD: 0.109173, Relative SD: 10.0901
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.71	1.06e4	9.86e3	12.4	1.07	-0.7
2	2 161122G2_3	12.5	4.71	1.33e4	1.10e4	14.0	1.21	11.8
3	3 161122G2_4	12.5	4.71	1.23e4	1.19e4	12.0	1.04	-4.3
4	4 161122G2_5	12.5	4.71	1.28e4	1.06e4	14.0	1.21	12.3
5	5 161122G2_6	12.5	4.71	1.33e4	1.18e4	13.0	1.13	4.1
6	6 161122G2_7	12.5	4.71	1.21e4	1.04e4	13.4	1.16	7.4
7	7 161122G2_8	12.5	4.71	1.04e4	1.14e4	10.5	0.909	-16.0
8	8 161122G2_9	12.5	4.71	1.23e4	1.16e4	12.3	1.07	-1.4
9	9 161122G2_10	12.5	4.71	1.07e4	1.14e4	10.8	0.938	-13.3

Compound name: 13C2-PFDA
Response Factor: 1.01921
RRF SD: 0.0876435, Relative SD: 8.59913
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	5.01	6.01e3	6.35e3	11.6	0.947	-7.1
2	2 161122G2_3	12.5	5.01	8.51e3	9.85e3	10.6	0.864	-15.2
3	3 161122G2_4	12.5	5.01	8.73e3	8.39e3	12.8	1.04	2.1
4	4 161122G2_5	12.5	5.01	8.07e3	7.46e3	13.3	1.08	6.1
5	5 161122G2_6	12.5	5.01	7.02e3	6.59e3	13.1	1.07	4.5
6	6 161122G2_7	12.5	5.01	1.01e4	9.85e3	12.5	1.02	0.3
7	7 161122G2_8	12.5	5.01	6.60e3	5.70e3	14.2	1.16	13.6
8	8 161122G2_9	12.5	5.01	8.88e3	8.46e3	12.9	1.05	2.9
9	9 161122G2_10	12.5	5.01	8.96e3	9.48e3	11.6	0.945	-7.3

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C2-8:2 FTS
Response Factor: 0.568768
RRF SD: 0.137212, Relative SD: 24.1245
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.99	2.12e3	5.89e3	7.93	0.361	-36.6
2	2 161122G2_3	12.5	4.99	3.66e3	5.82e3	13.8	0.629	10.6
3	3 161122G2_4	12.5	4.99	2.69e3	5.56e3	10.6	0.483	-15.1
4	4 161122G2_5	12.5	4.99	2.74e3	5.84e3	10.3	0.468	-17.7
5	5 161122G2_6	12.5	4.99	3.15e3	5.76e3	12.0	0.546	-4.1
6	6 161122G2_7	12.5	4.99	3.62e3	4.77e3	16.7	0.759	33.4
7	7 161122G2_8	12.5	4.99	2.69e3	5.78e3	10.2	0.466	-18.0
8	8 161122G2_9	12.5	4.99	3.97e3	5.95e3	14.7	0.667	17.3
9	9 161122G2_10	12.5	4.99	4.58e3	6.18e3	16.3	0.740	30.1

Compound name: 13C4-PFBA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	1.93	1.76e4	1.76e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	1.92	1.85e4	1.85e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	1.93	1.80e4	1.80e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	1.93	1.91e4	1.91e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	1.93	1.69e4	1.69e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	1.93	1.58e4	1.58e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	1.93	1.64e4	1.64e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	1.93	1.66e4	1.66e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	1.92	1.63e4	1.63e4	12.5	1.00	0.0

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C2-4:2 FTS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.37	5.89e3	5.89e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	3.37	5.82e3	5.82e3	12.5	1.00	0.0
3	3 161122G2_4	12.5	3.37	5.56e3	5.56e3	12.5	1.00	0.0
4	4 161122G2_5	12.5	3.38	5.84e3	5.84e3	12.5	1.00	0.0
5	5 161122G2_6	12.5	3.38	5.76e3	5.76e3	12.5	1.00	0.0
6	6 161122G2_7	12.5	3.38	4.77e3	4.77e3	12.5	1.00	0.0
7	7 161122G2_8	12.5	3.38	5.78e3	5.78e3	12.5	1.00	0.0
8	8 161122G2_9	12.5	3.38	5.95e3	5.95e3	12.5	1.00	0.0
9	9 161122G2_10	12.5	3.38	6.18e3	6.18e3	12.5	1.00	0.0

Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 3.92523e-017, Relative SD: 3.92523e-015
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.47	2.07e4	2.07e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	3.46	2.17e4	2.17e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	3.47	2.11e4	2.11e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	3.47	2.20e4	2.20e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	3.47	2.15e4	2.15e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	3.47	1.89e4	1.89e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	3.47	1.78e4	1.78e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	3.47	1.84e4	1.84e4	12.5	1.00	-0.0
9	9 161122G2_10	12.5	3.47	1.75e4	1.75e4	12.5	1.00	0.0

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.09	1.32e4	1.32e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.09	1.36e4	1.36e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.09	1.42e4	1.42e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.09	1.48e4	1.48e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.09	1.44e4	1.44e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.09	1.23e4	1.23e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.09	1.16e4	1.16e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.09	1.17e4	1.17e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.09	1.18e4	1.18e4	12.5	1.00	0.0

Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.37	1.14e4	1.14e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.37	1.22e4	1.22e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.37	1.22e4	1.22e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.37	1.19e4	1.19e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.37	1.12e4	1.12e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.37	1.17e4	1.17e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.37	1.03e4	1.03e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.37	1.06e4	1.06e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.37	9.56e3	9.56e3	12.5	1.00	0.0

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.78	6.09e3	6.09e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.77	8.00e3	8.00e3	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.78	7.63e3	7.63e3	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.77	7.71e3	7.71e3	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.77	7.12e3	7.12e3	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.77	7.59e3	7.59e3	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.78	6.40e3	6.40e3	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.77	7.90e3	7.90e3	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.77	7.73e3	7.73e3	12.5	1.00	0.0

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.71	9.86e3	9.86e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.71	1.10e4	1.10e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.71	1.19e4	1.19e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.71	1.06e4	1.06e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.71	1.18e4	1.18e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.71	1.04e4	1.04e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.71	1.14e4	1.14e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.71	1.16e4	1.16e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.71	1.14e4	1.14e4	12.5	1.00	0.0

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 3.92523e-017, Relative SD: 3.92523e-015
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	5.01	6.35e3	6.35e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	5.01	9.85e3	9.85e3	12.5	1.00	0.0
3	3 161122G2_4	12.5	5.01	8.39e3	8.39e3	12.5	1.00	0.0
4	4 161122G2_5	12.5	5.01	7.46e3	7.46e3	12.5	1.00	0.0
5	5 161122G2_6	12.5	5.01	6.59e3	6.59e3	12.5	1.00	0.0
6	6 161122G2_7	12.5	5.01	9.85e3	9.85e3	12.5	1.00	0.0
7	7 161122G2_8	12.5	5.01	5.70e3	5.70e3	12.5	1.00	0.0
8	8 161122G2_9	12.5	5.01	8.46e3	8.46e3	12.5	1.00	-0.0
9	9 161122G2_10	12.5	5.01	9.48e3	9.48e3	12.5	1.00	0.0

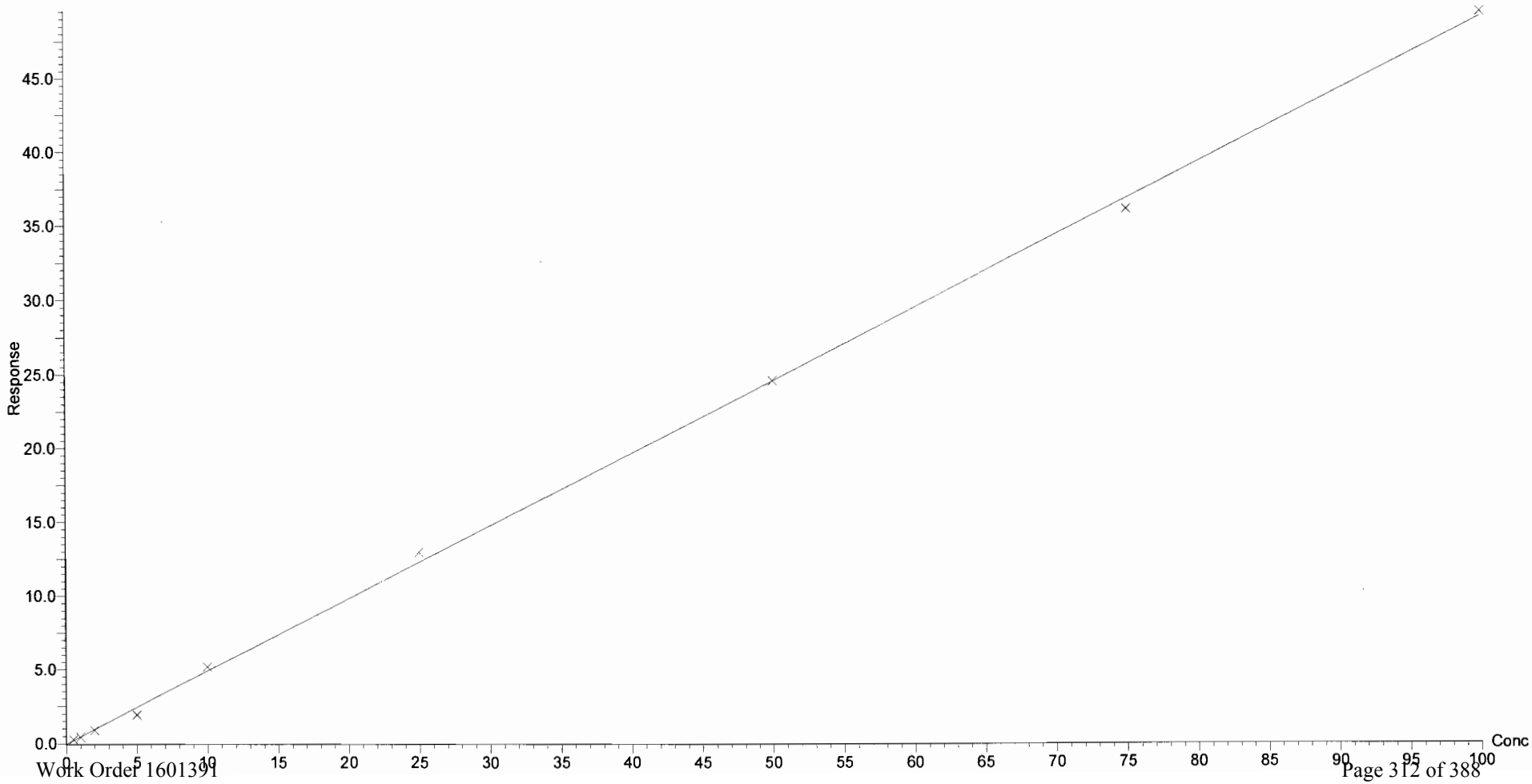
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:05
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA
Correlation coefficient: r = 0.999216, r^2 = 0.998432
Calibration curve: 0.492927 * x + -0.0410615
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

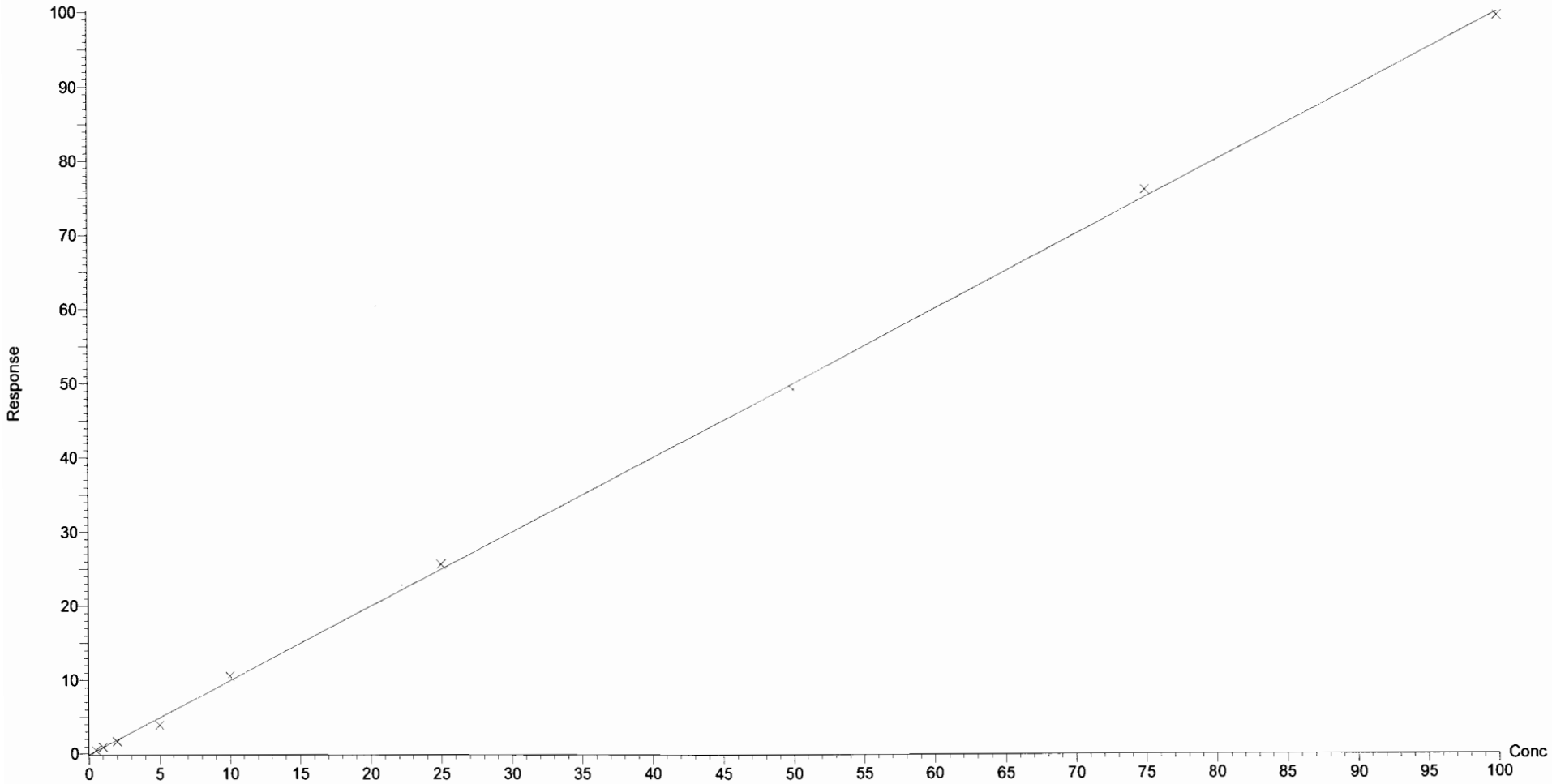


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: PFPeA
Correlation coefficient: r = 0.999341, r^2 = 0.998683
Calibration curve: 1.00273 * x + -0.119981
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

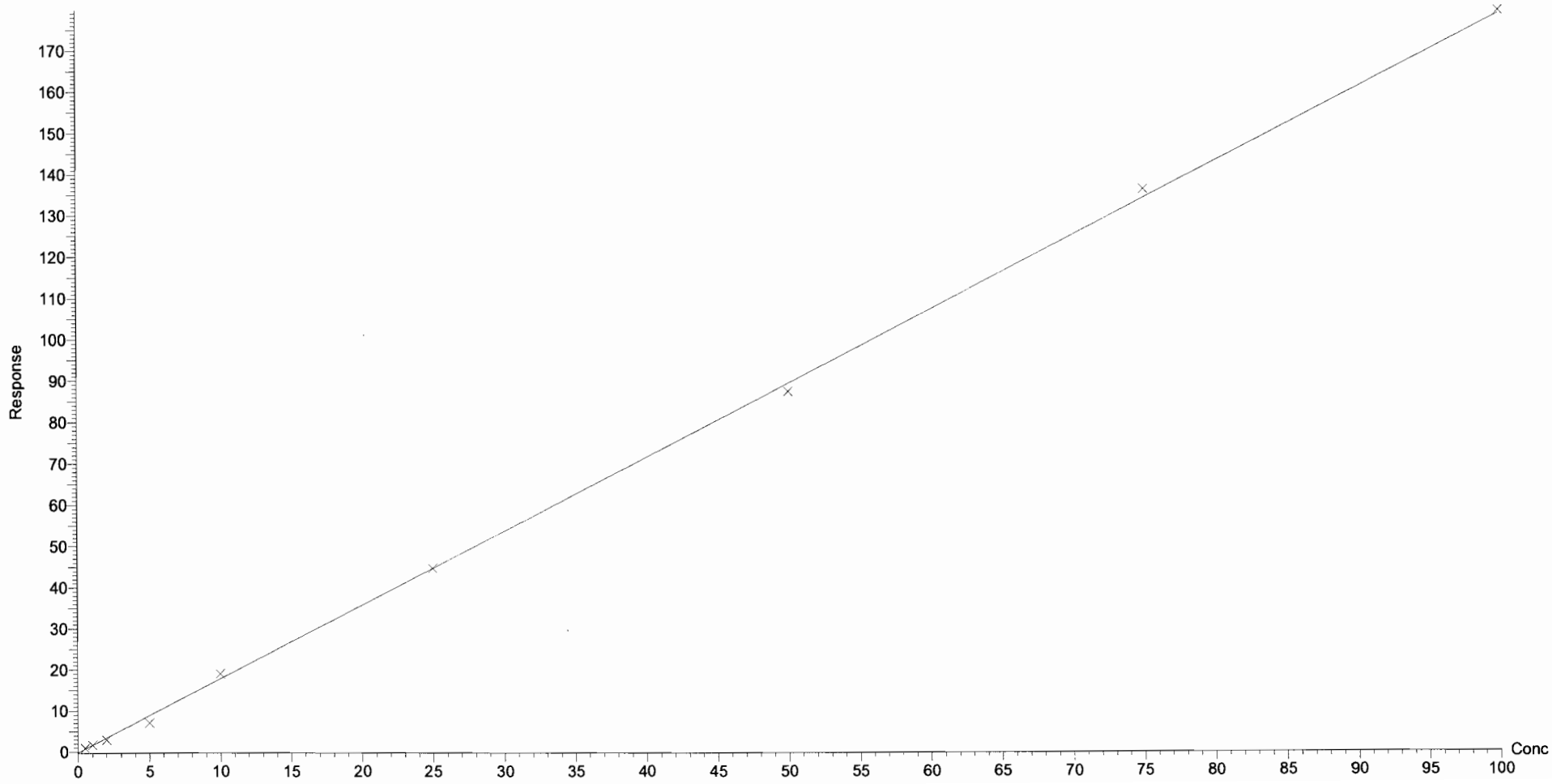


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

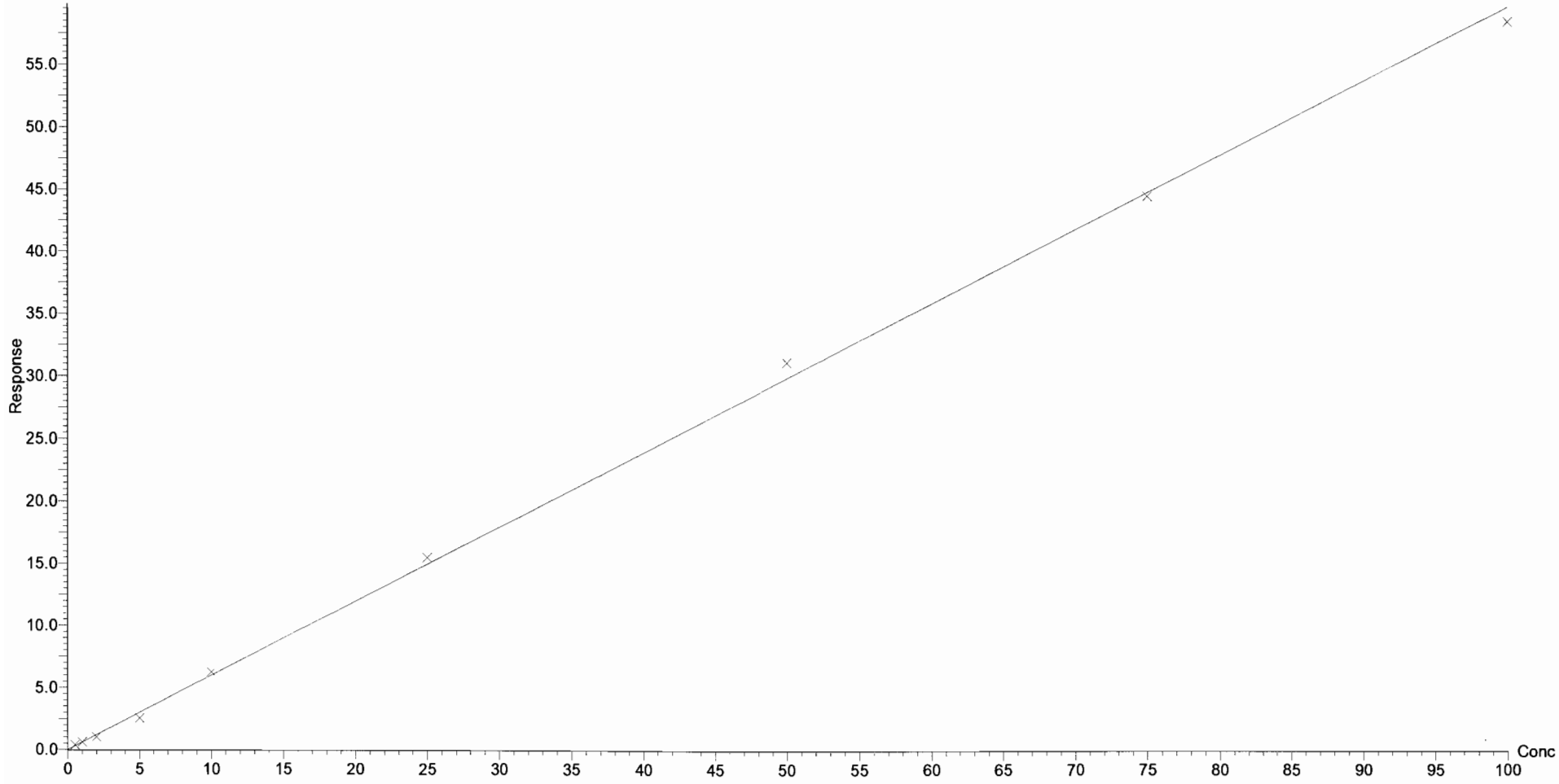
Compound name: PFBS
Correlation coefficient: r = 0.999283, r^2 = 0.998566
Calibration curve: 1.79216 * x + -0.145672
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

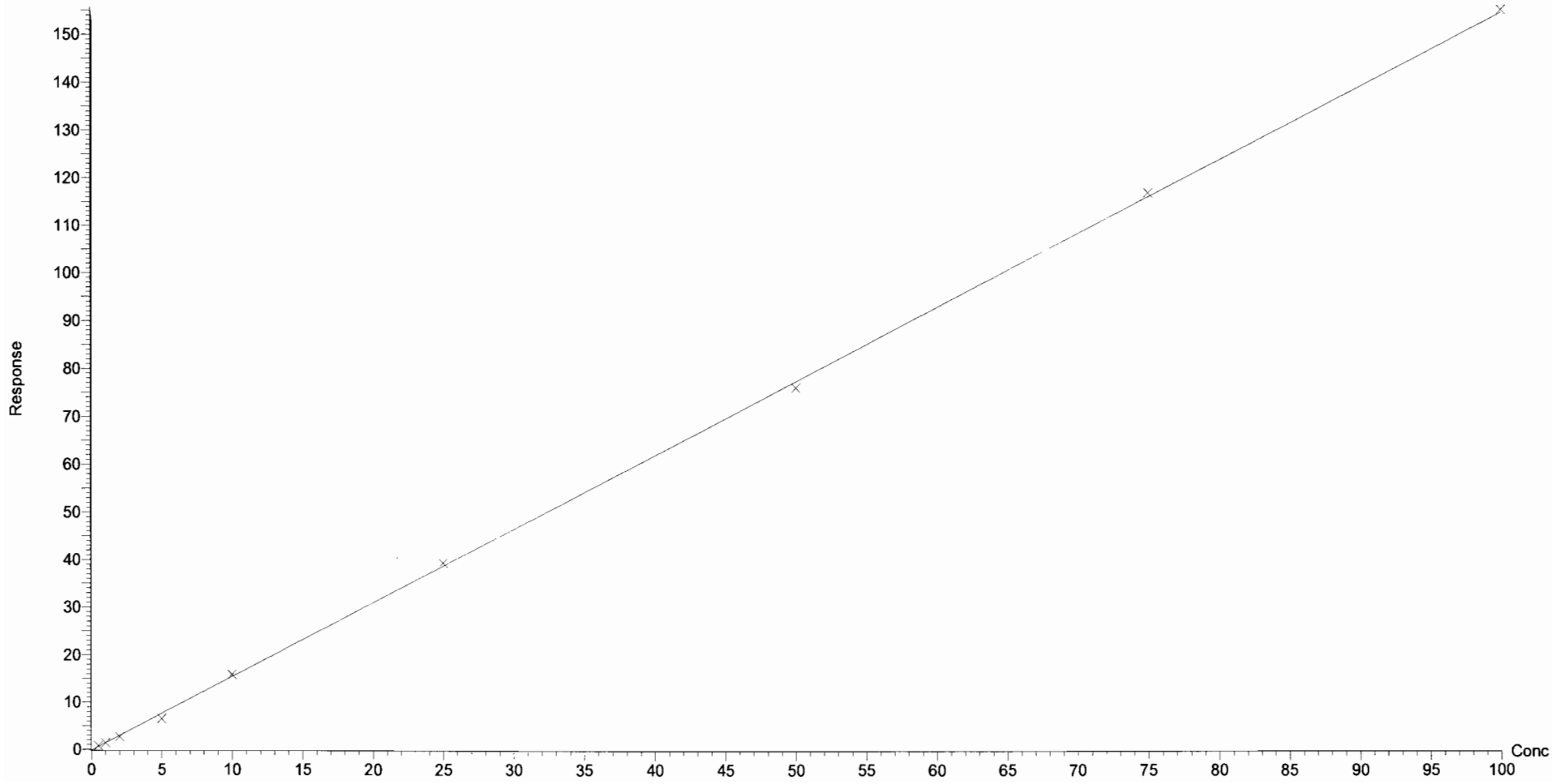
Compound name: PFHxA
Correlation coefficient: r = 0.999245, r^2 = 0.998491
Calibration curve: 0.598427 * x + 0.0095449
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

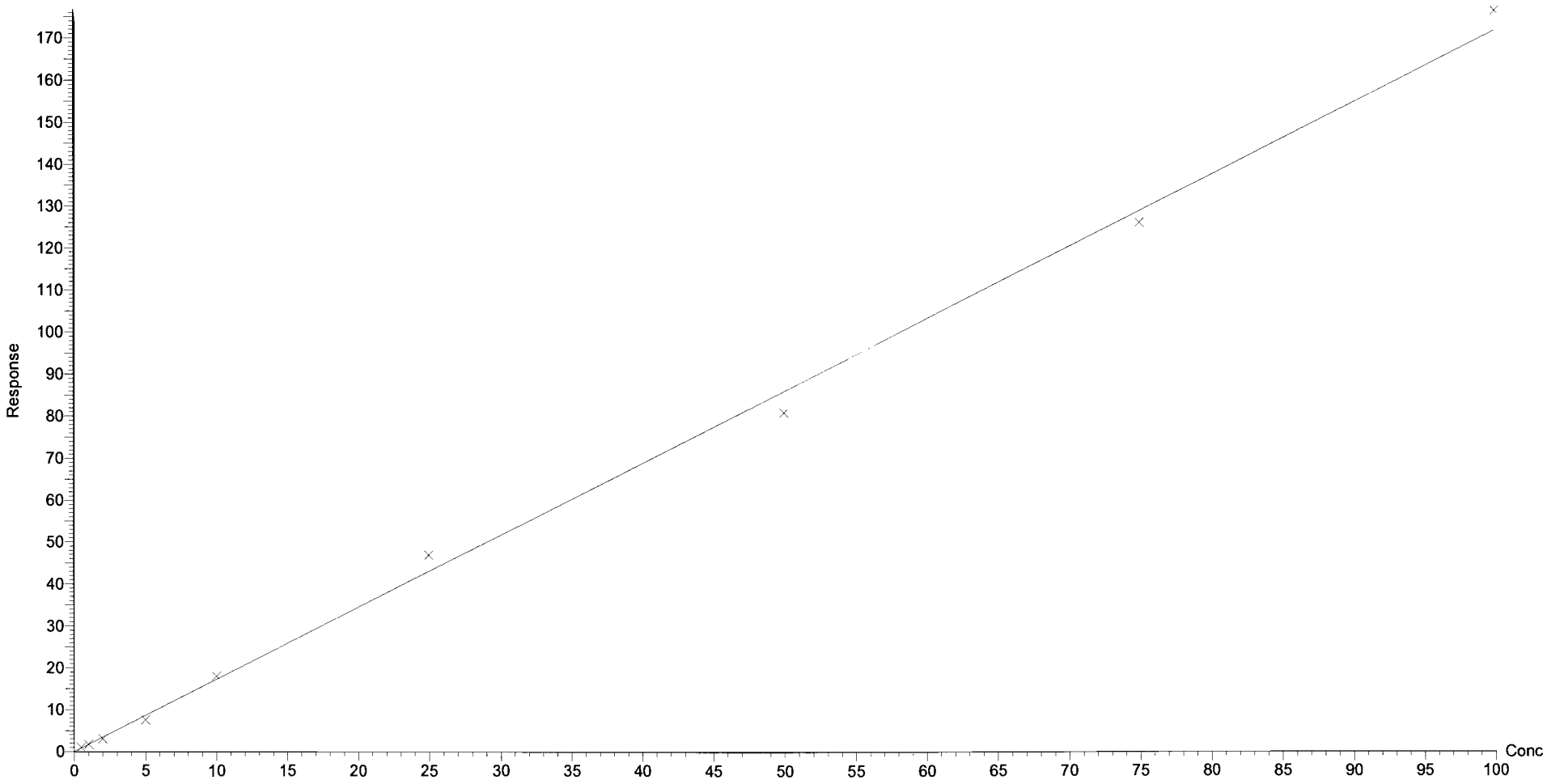
Compound name: PFHpA
Correlation coefficient: r = 0.999639, r^2 = 0.999279
Calibration curve: 1.55279 * x + -0.138431
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: PFHxS
Correlation coefficient: r = 0.998761, r^2 = 0.997524
Calibration curve: 1.72095 * x + -0.0266266
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

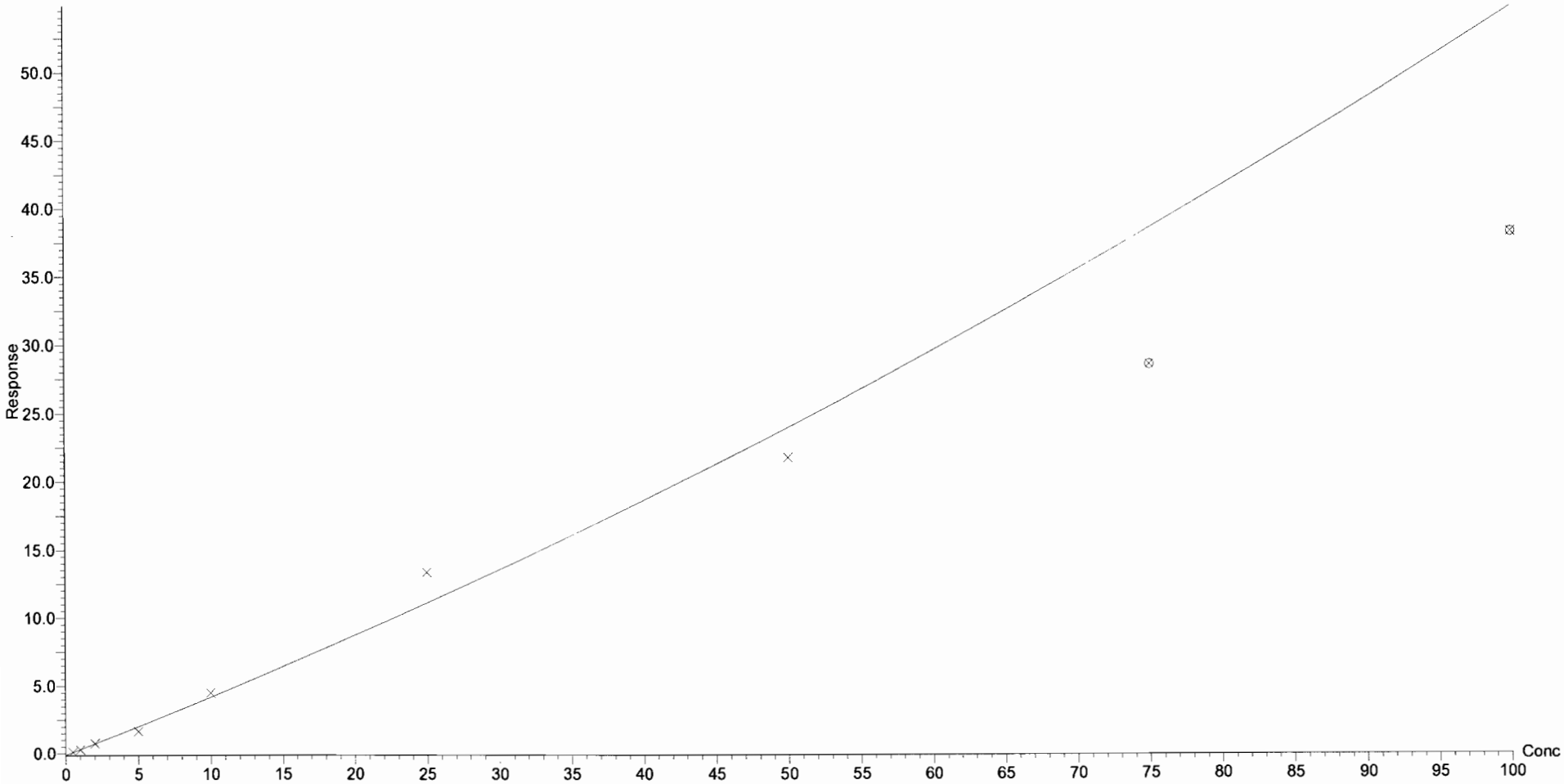


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

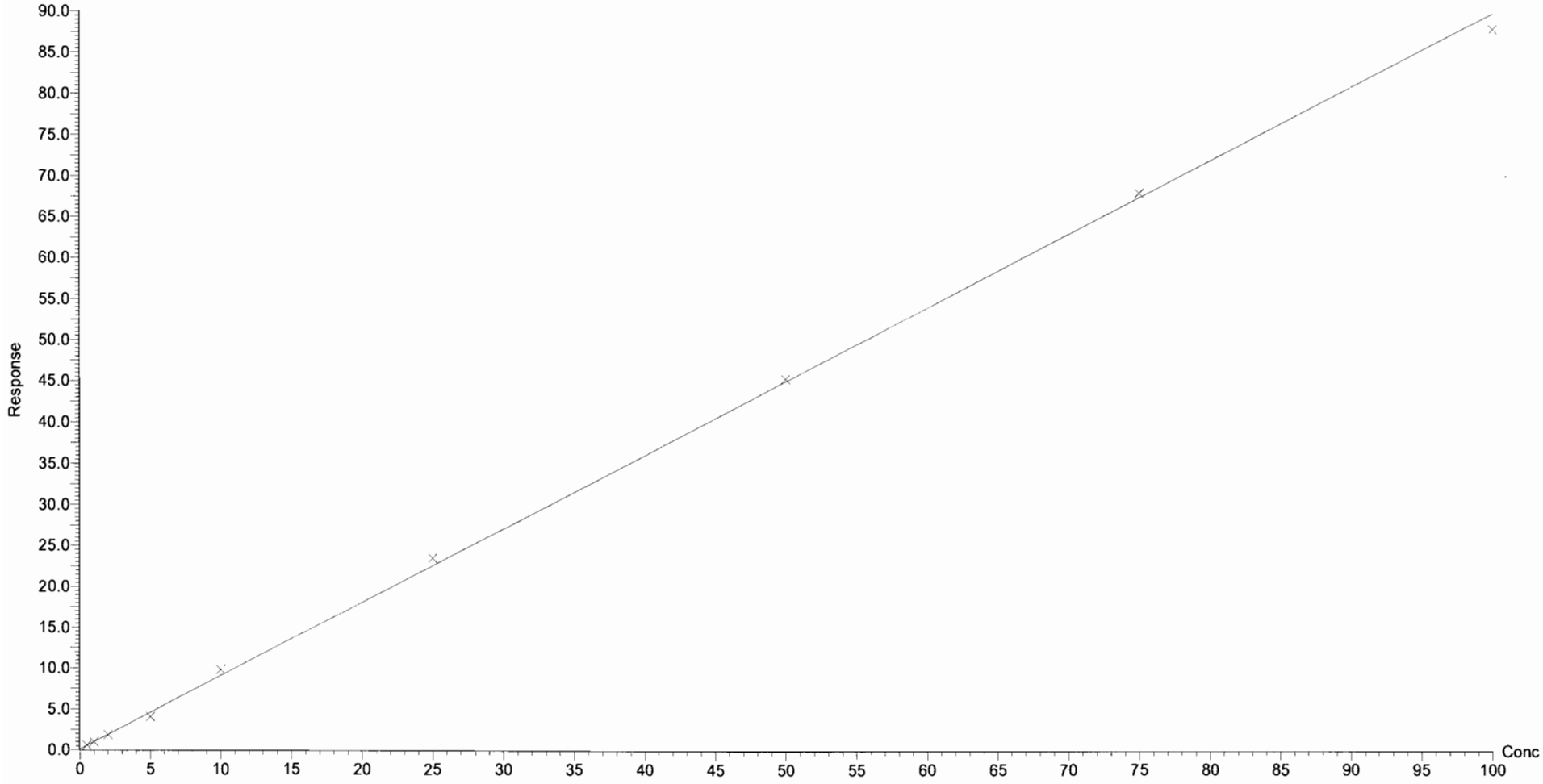
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.978941
Calibration curve: 0.00135992 * x^2 + 0.414129 * x + -0.114975
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: PFOA
Correlation coefficient: r = 0.999524, r^2 = 0.999048
Calibration curve: 0.899906 * x + 0.0917344
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

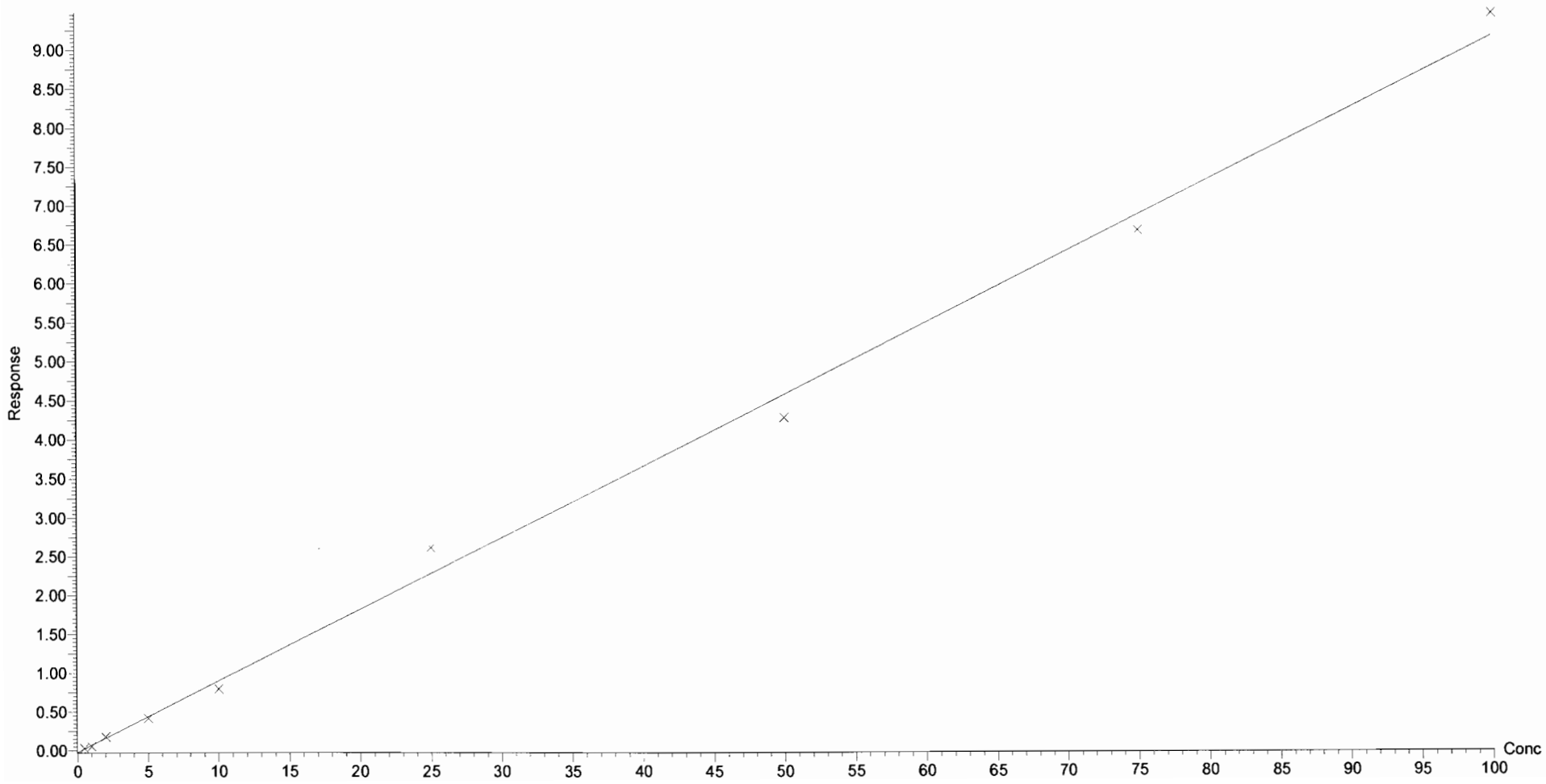


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: PFHpS
Correlation coefficient: r = 0.997800, r^2 = 0.995604
Calibration curve: 0.0921515 * x + -0.0228444
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

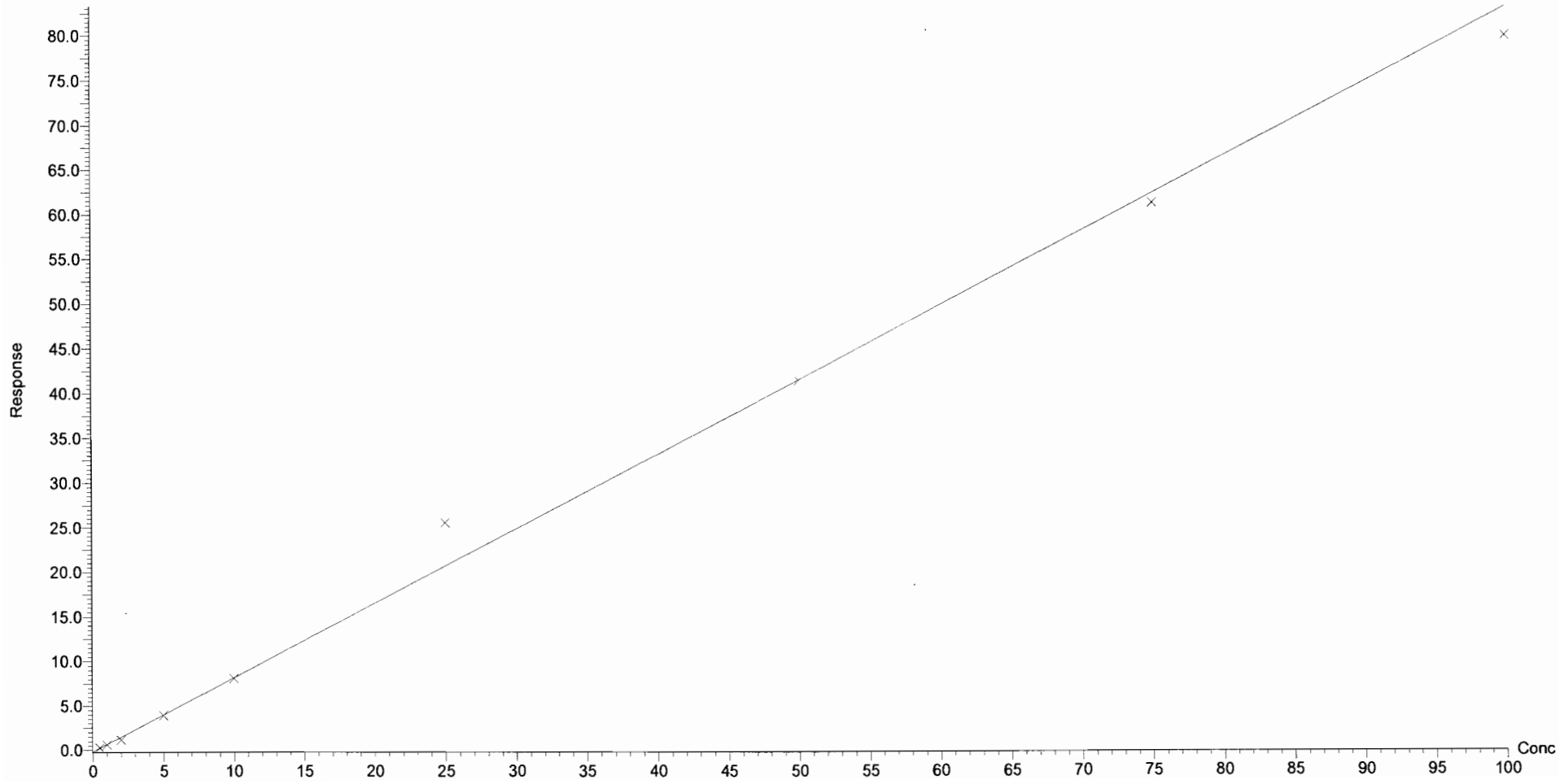


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

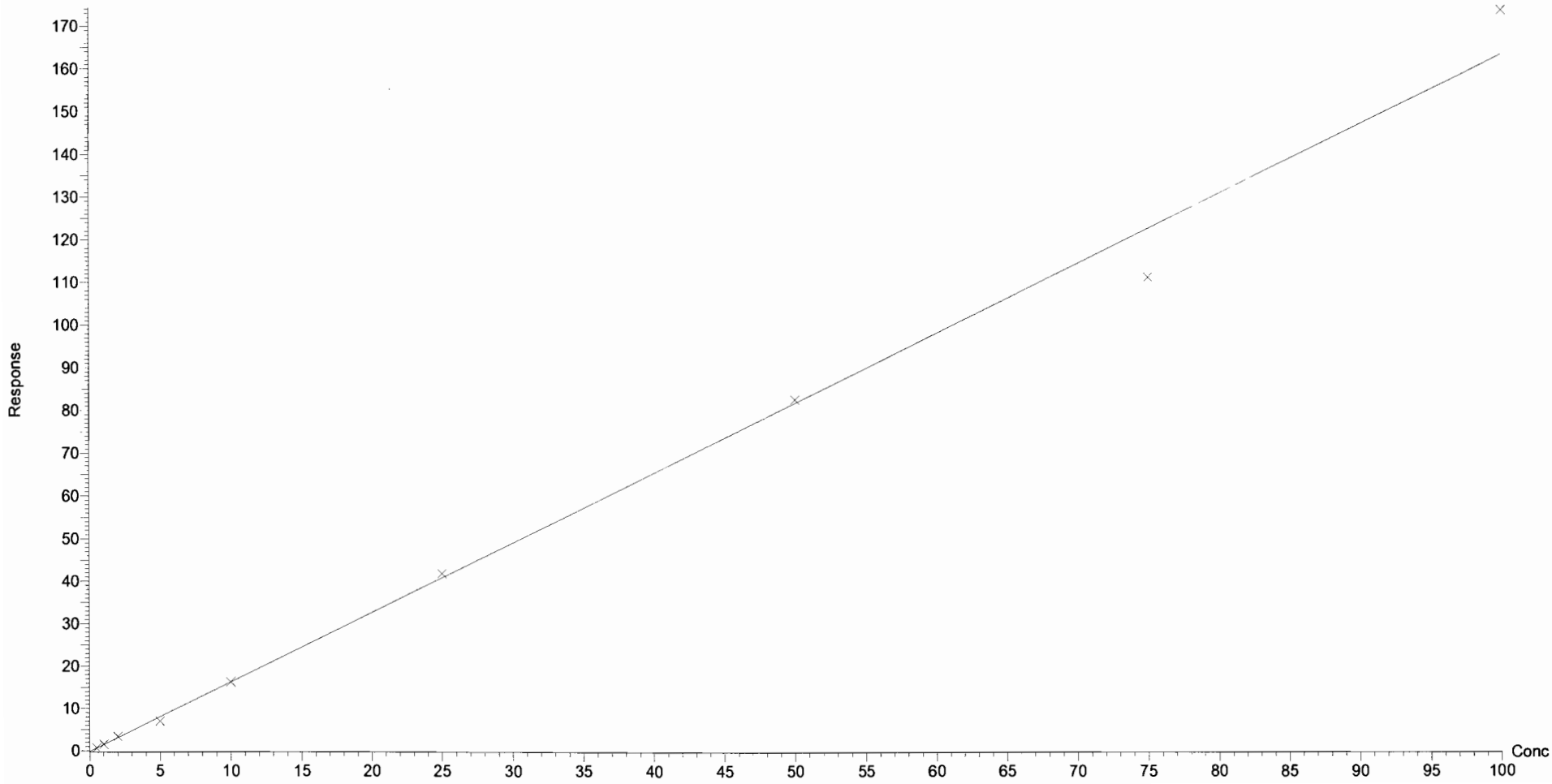
Compound name: PFOS
Correlation coefficient: r = 0.996761, r^2 = 0.993532
Calibration curve: 0.83439 * x + -0.165838
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

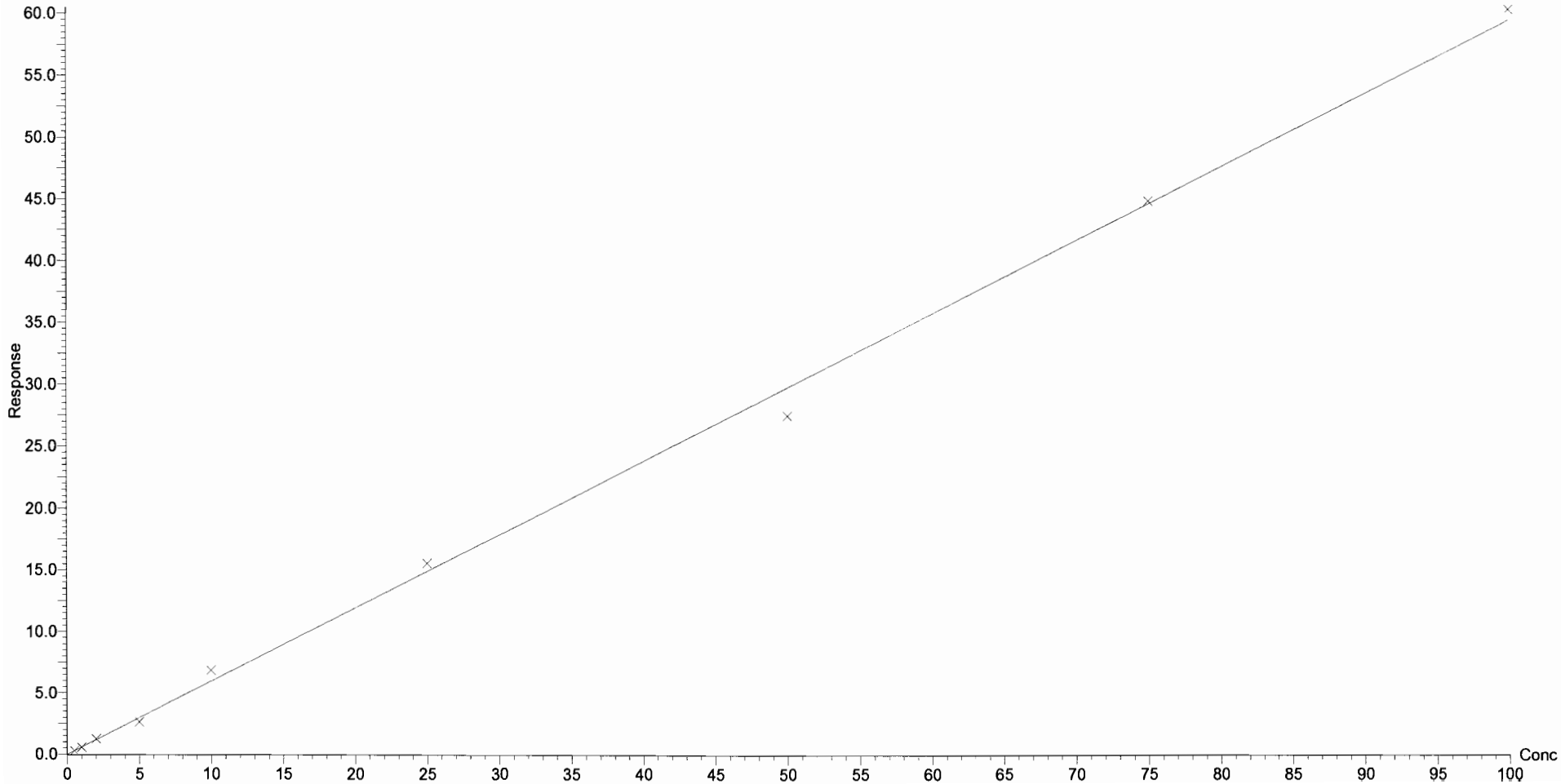
Compound name: PFNA
Correlation coefficient: r = 0.997674, r^2 = 0.995354
Calibration curve: 1.64181 * x + -0.17063
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

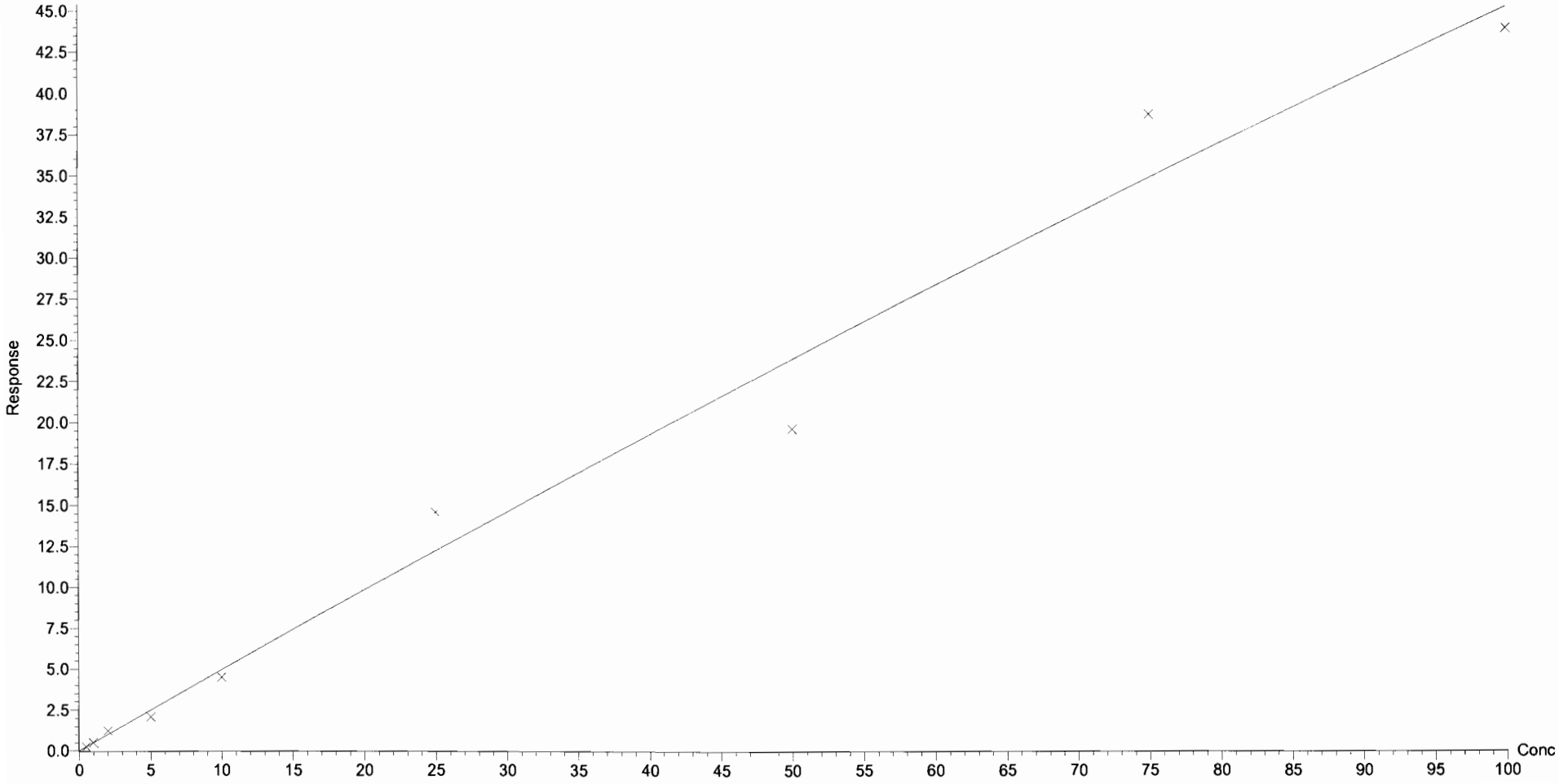
Compound name: PFDA
Correlation coefficient: r = 0.998669, r^2 = 0.997340
Calibration curve: 0.596457 * x + -0.0200723
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.984052
Calibration curve: -0.000479329 * x^2 + 0.502189 * x + 0.00235356
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Tuesday, November 22, 2016 15:08:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:09:10 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 14:59:27

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161122G2_1	IPA	22-Nov-16	09:47:54
2	161122G2_2	ST161122G2-2 PFC CS-1 16K1705	22-Nov-16	10:00:32
3	161122G2_3	ST161122G2-3 PFC CS0 16K1706	22-Nov-16	10:13:07
4	161122G2_4	ST161122G2-4 PFC CS1 16K1707	22-Nov-16	10:25:42
5	161122G2_5	ST161122G2-5 PFC CS2 16K1708	22-Nov-16	10:38:18
6	161122G2_6	ST161122G2-6 PFC CS3 16K1709	22-Nov-16	10:50:54
7	161122G2_7	ST161122G2-7 PFC CS3.5 16K1710	22-Nov-16	11:03:32
8	161122G2_8	ST161122G2-8 PFC CS4 16K1711	22-Nov-16	11:16:11
9	161122G2_9	ST161122G2-9 PFC CS4.5 16K1712	22-Nov-16	11:28:50
10	161122G2_10	ST161122G2-10 PFC CS5 16K1713	22-Nov-16	11:41:28
11	161122G2_11	IPA	22-Nov-16	11:54:03
12	161122G2_12	SS161122G2-1 PFC SS 16K2201	22-Nov-16	12:06:50
13	161122G2_13	IPA	22-Nov-16	12:19:32

Vista Analytical Laboratory Q1

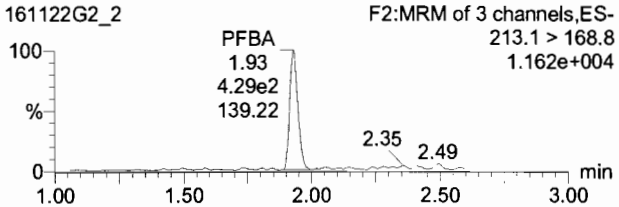
Dataset: Untitled

Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

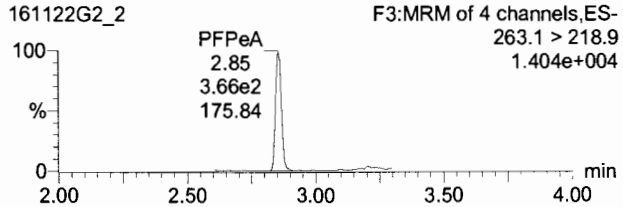
Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:05
Calibration: 22 Nov 2016 14:43:00

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

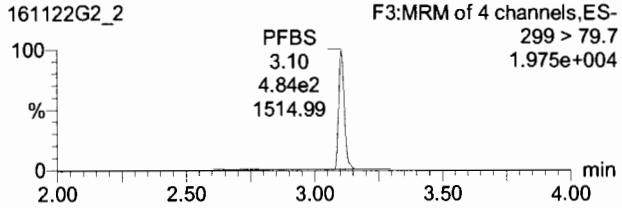
PFBA



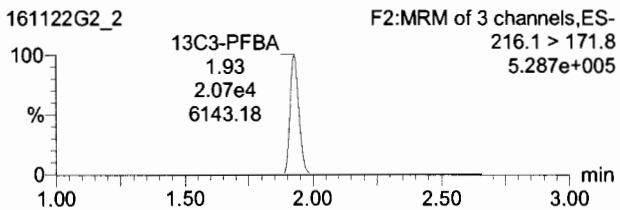
PFPeA



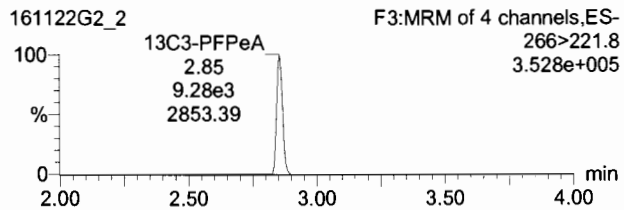
PFBS



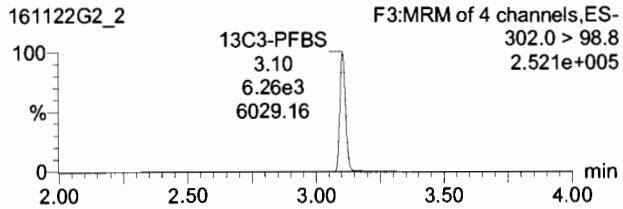
13C3-PFBA



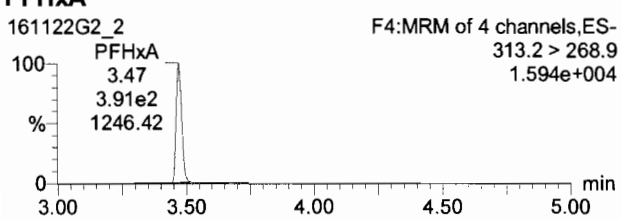
13C3-PFPeA



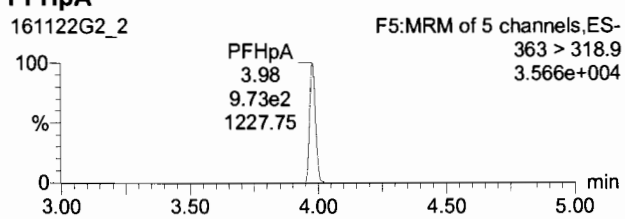
13C3-PFBS



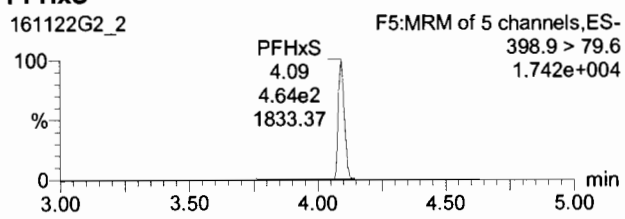
PFHxA



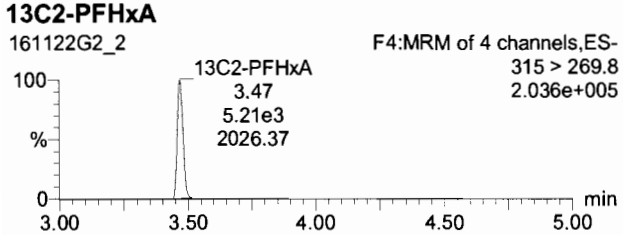
PFHpA



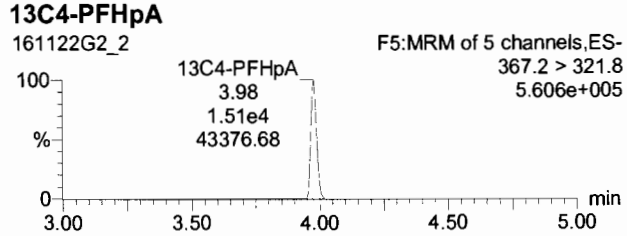
PFHxS



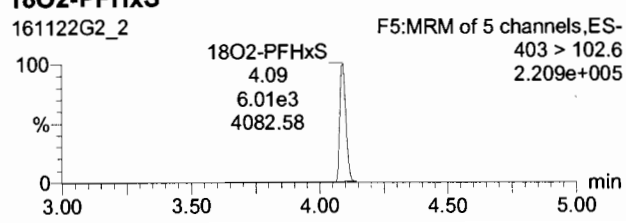
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

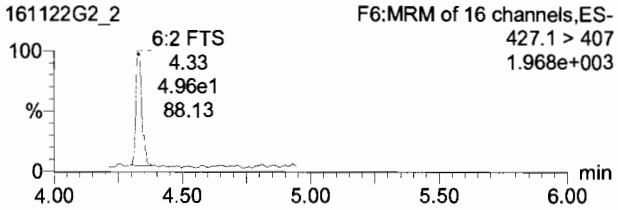


Dataset: Untitled

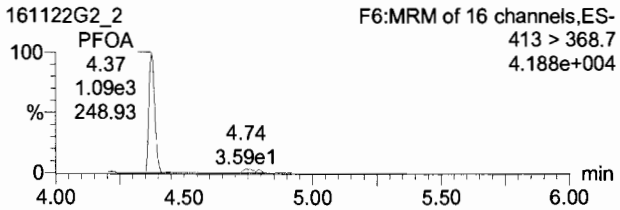
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

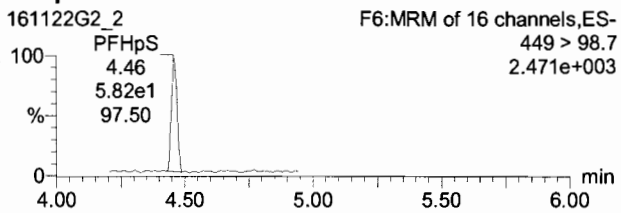
6:2 FTS



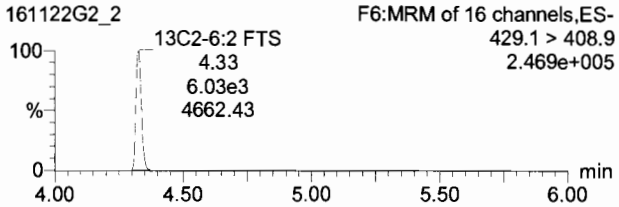
PFOA



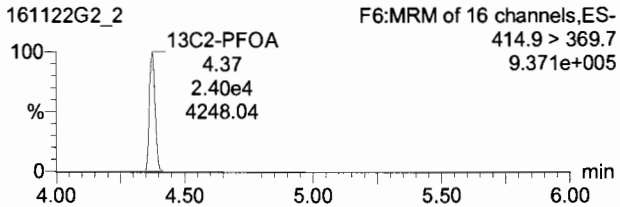
PFHpS



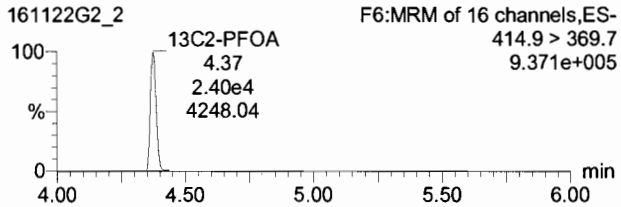
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

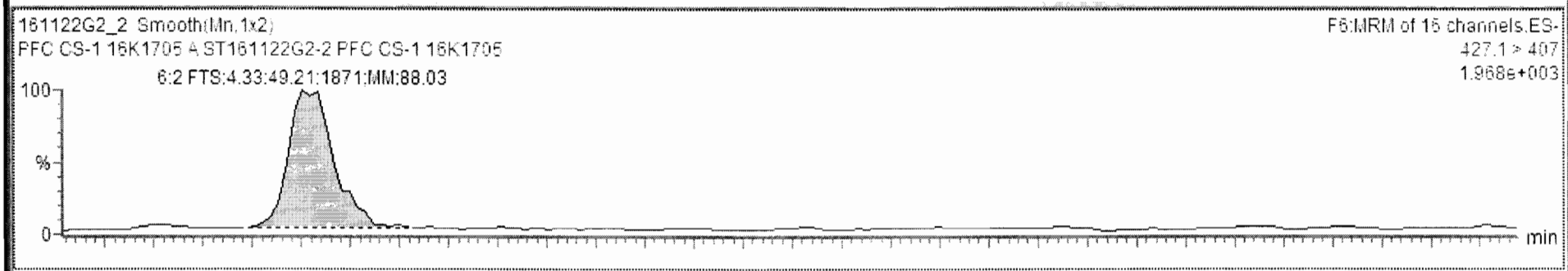


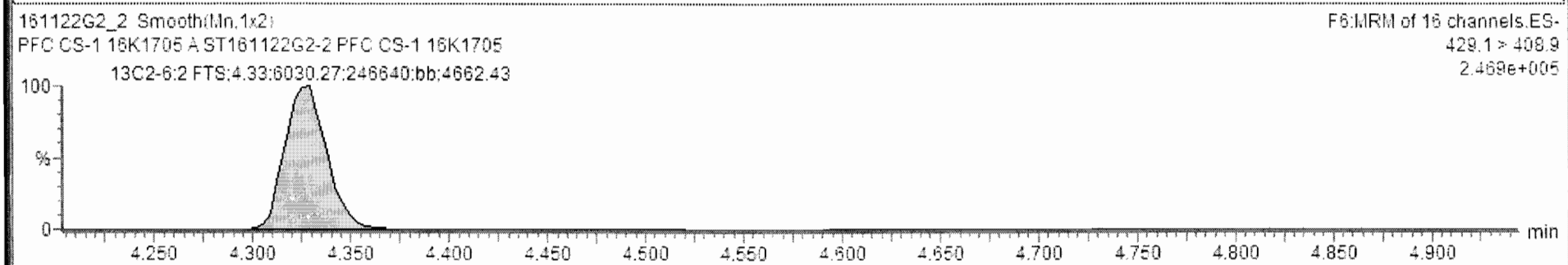
TargetLynx - 161122G2-CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_2 - ST161122G2-2 PFC CS-1 16K1705 - PFC CS-1 16K1705 A

	Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	4.29e2	0.259	0.518	1.000	1.93	0.608	121.7	0.0932282		0.9984
2	PFPeA	263.1 > 218.9	3.66e2	0.493	0.986	1.000	2.85	0.611	122.2	0.1266747		0.9987
3	PFBS	299 > 79.7	4.84e2	0.966	1.932	1.000	3.10	0.620	124.1	0.0821816		0.9986
4	PFHxA	313.2 > 268.9	3.91e2	0.376	0.751	1.000	3.47	0.612	122.3	0.0000000		0.9985
5	PFHpA	363 > 318.9	9.73e2	0.805	1.610	1.000	3.98	0.608	121.5	0.0901896		0.9993
6	PFHxS	398.9 > 79.6	4.64e2	0.965	1.931	1.000	4.09	0.576	115.3	0.0162512		0.9975
7	6:2 FTS	427.1 > 407	4.92e1	0.102	0.204	1.000	4.33	0.523	104.6	0.2838680		0.9769
8	PFOA	413 > 368.7	1.09e3	0.566	1.133	1.000	4.37	0.527	105.5	0.0000000		0.9990
9	PFHpS	449 > 98.7	5.82e1	0.030	0.061	1.000	4.46	0.577	115.3	0.2567614		0.9956
10	PFOS	499 >79.9	1.21e2	0.287	0.574	1.000	4.76	0.543	108.5	0.2386134		0.9935
11	PFNA	463 > 418.8	5.63e2	0.664	1.329	1.000	4.72	0.509	101.7	0.1047001		0.9954
12	PFDA	513 > 468.8	1.30e2	0.270	0.540	1.000	5.01	0.486	97.3	0.0368964		0.9973
13	8:2 FTS	527 > 506.9	4.13e1	0.243	0.486	1.000	4.99	0.485	97.0	0.0169968		0.9823





Ready 161122G2_2 CAP NUM

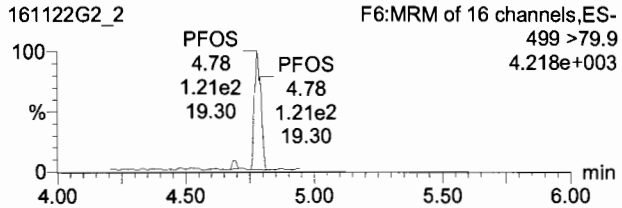
Vista Analytical Laboratory Q1

Dataset: Untitled

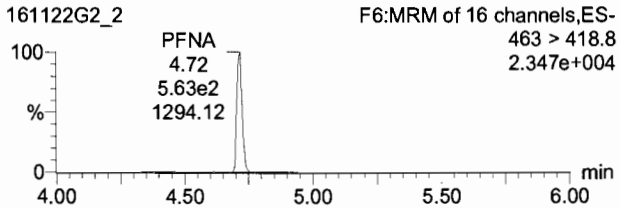
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

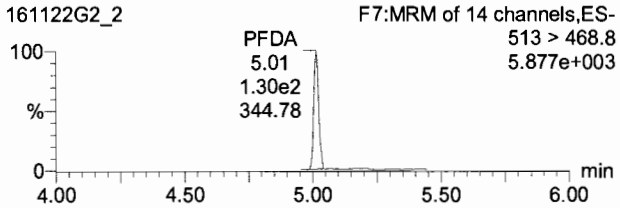
PFOS



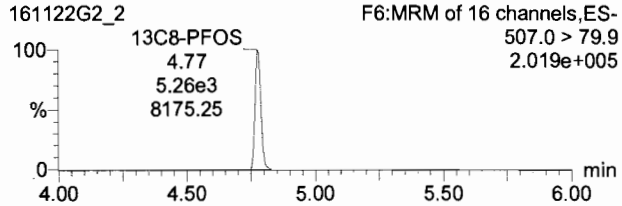
PFNA



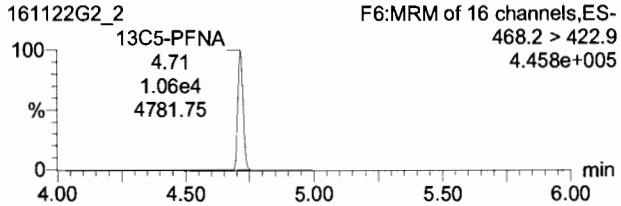
PFDA



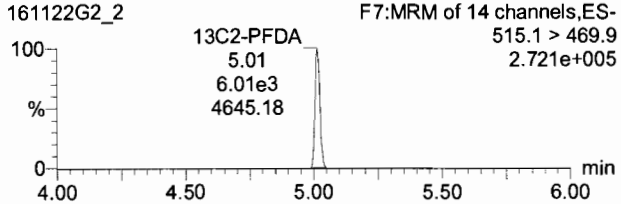
13C8-PFOS



13C5-PFNA



13C2-PFDA

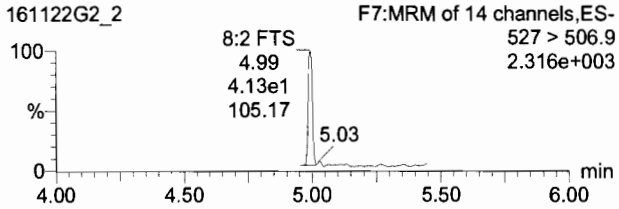


Dataset: Untitled

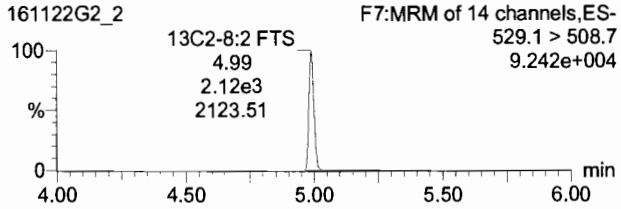
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

8:2 FTS



13C2-8:2 FTS

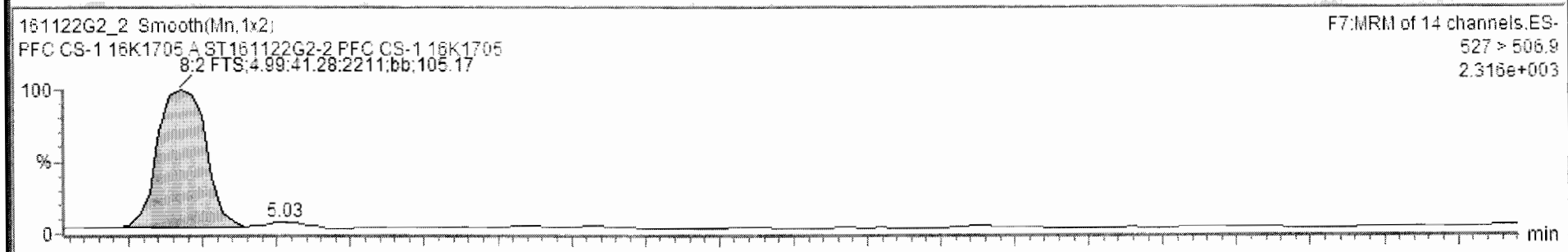


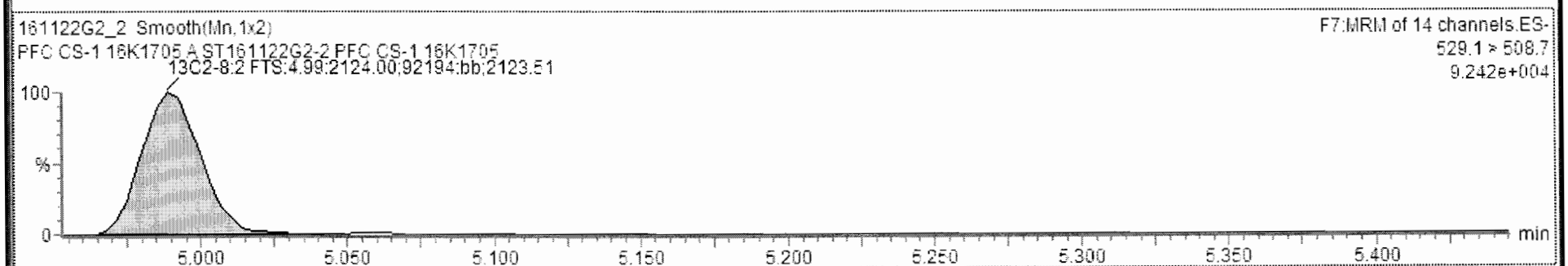
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_2 - ST161122G2-2 PFC CS-1 16K1705 - PFC CS-1 16K1705 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	3.91e2		1.000	3.47	3.47	0.612	NO	122.3	0.0000000
5	PFHpA	363 > 318.9	9.73e2		1.000	3.98	3.98	0.608	NO	121.5	0.0903976
6	PFHxS	398.9 > 79.6	4.64e2		1.000	4.09	4.09	0.576	NO	115.3	0.0164070
7	6:2 FTS	427.1 > 407	4.92e1		1.000	4.33	4.33	0.645	NO	129.1	0.4501268
8	PFOA	413 > 368.7	1.09e3		1.000	4.37	4.37	0.527	NO	105.5	0.0000000
9	PFHpS	449 > 98.7	5.82e1		1.000	4.37	4.45	0.577	NO	115.3	0.2585335
10	PFOS	499 >79.9	1.21e2		1.000	4.78	4.78	0.543	NO	108.5	0.2465854
11	PFNA	463 > 418.8	5.63e2		1.000	4.71	4.72	0.509	NO	101.7	0.1048546
12	PFDA	513 > 468.8	1.30e2		1.000	5.01	5.01	0.486	NO	97.3	0.0375452
13	8:2 FTS	527 > 506.9	4.13e1		1.000	4.99	4.99	0.479	NO	95.9	0.0123962
14	13C3-PFBA	216.1 > 171.8	2.07e4	1.21	1.000	1.93	1.93	12.2	NO	97.6	0.0060004
15	13C3-PFPeA	266>221.8	9.28e3	0.448	1.000	2.83	2.85	12.5	NO	100.1	0.0125741
16	13C3-PFBS	302.0 > 98.8	6.26e3	0.302	1.000	3.09	3.10	12.5	NO	100.1	0.0062980





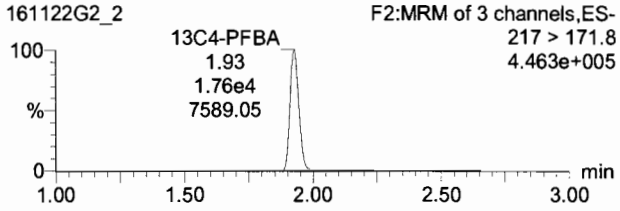
161122G2_2 CAP NUM

Dataset: Untitled

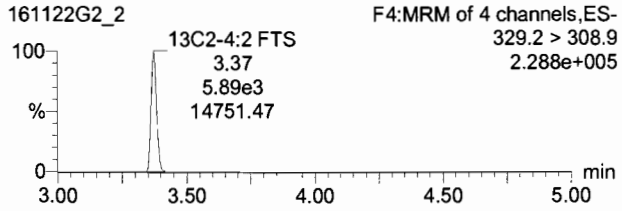
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

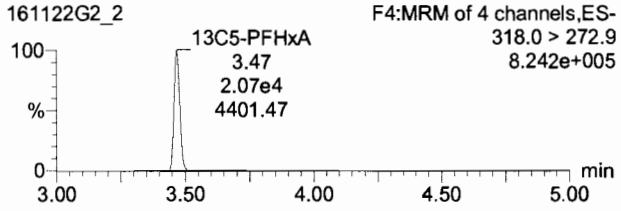
13C4-PFBA



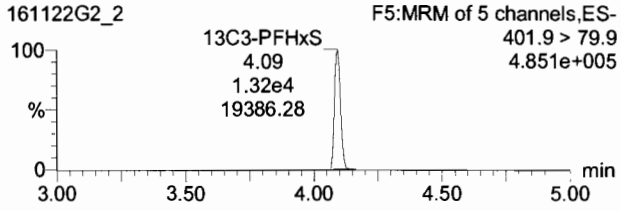
13C2-4:2 FTS



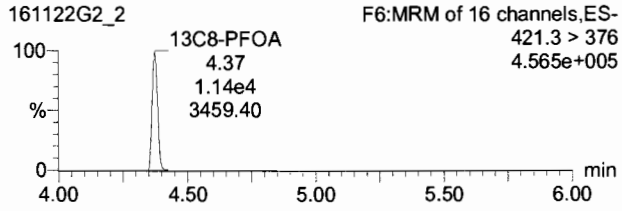
13C5-PFHxA



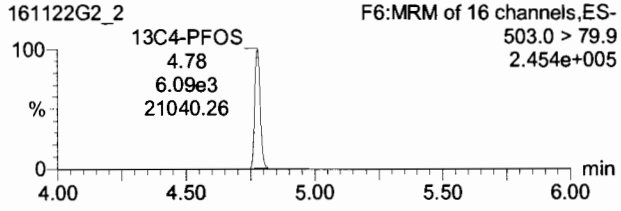
13C3-PFHxS



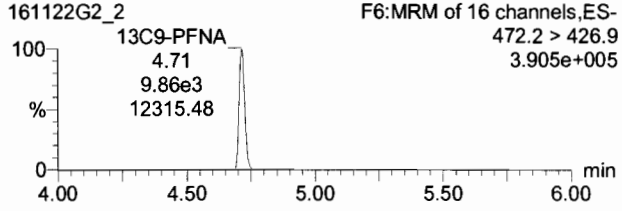
13C8-PFOA



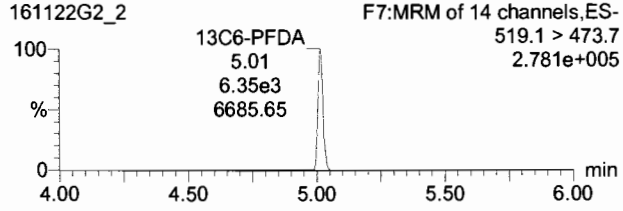
13C4-PFOS



13C9-PFNA



13C6-PFDA



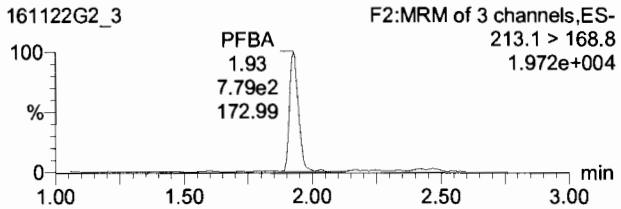
Vista Analytical Laboratory Q1

Dataset: Untitled

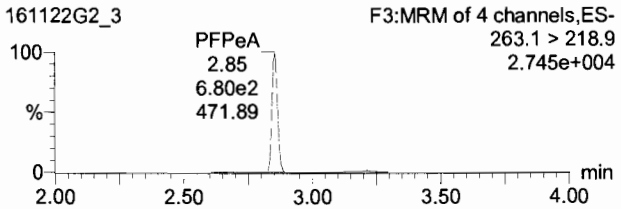
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

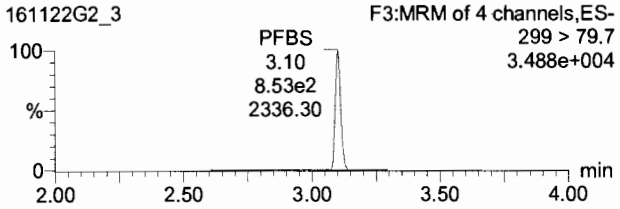
PFBA



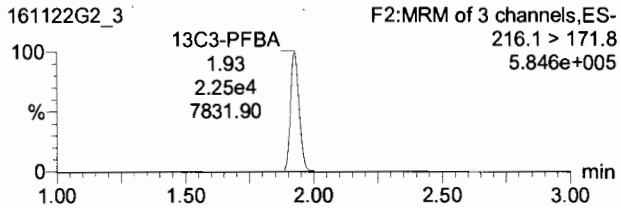
PFPeA



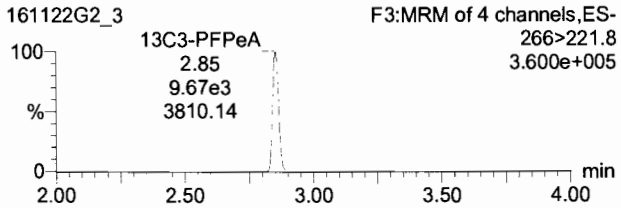
PFBS



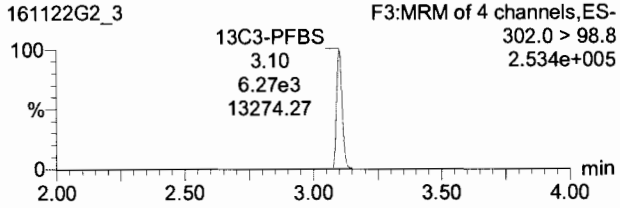
13C3-PFBA



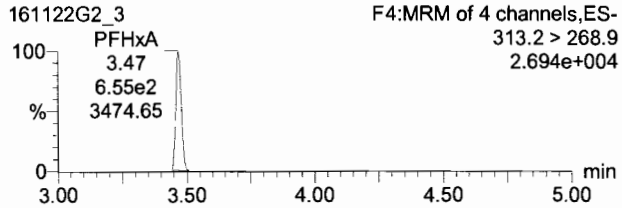
13C3-PFPeA



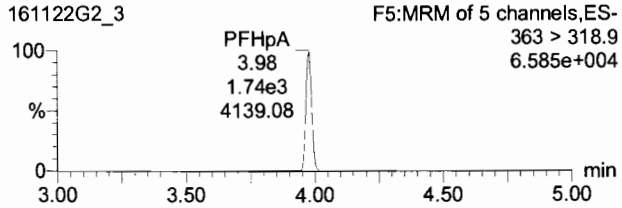
13C3-PFBS



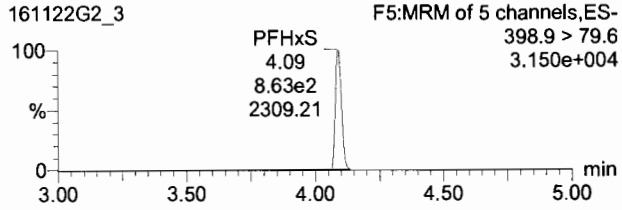
PFHxA



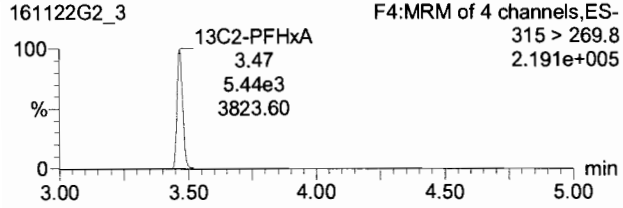
PFHpA



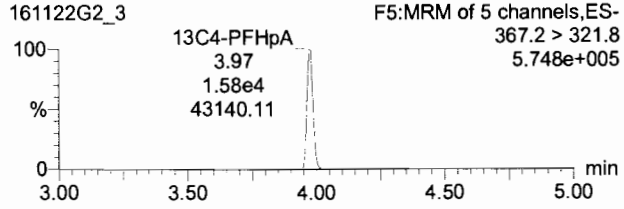
PFHxS



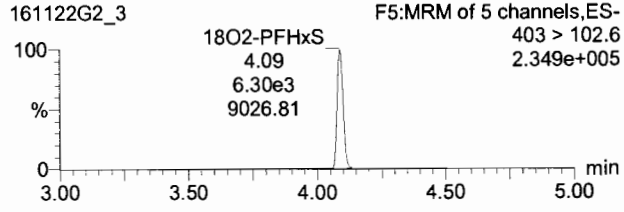
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

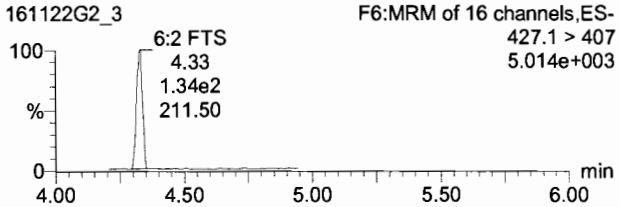


Dataset: Untitled

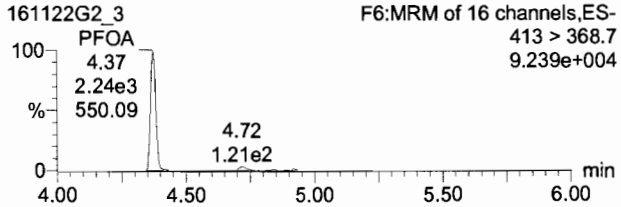
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

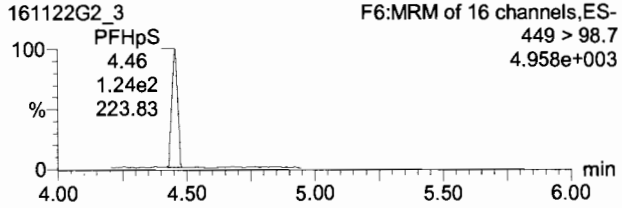
6:2 FTS



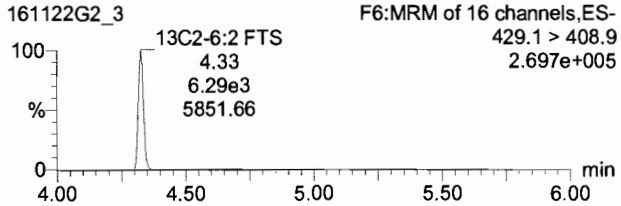
PFOA



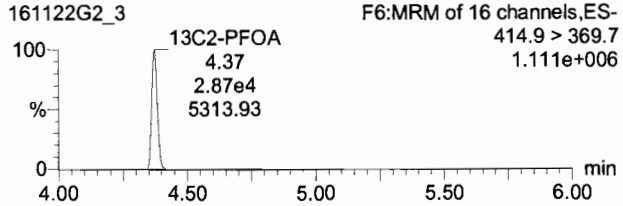
PFHpS



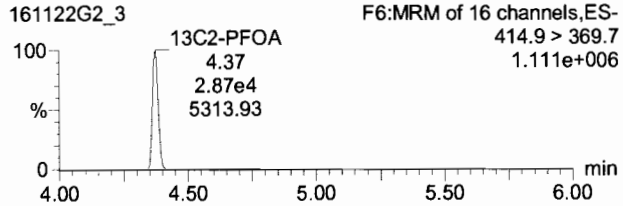
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

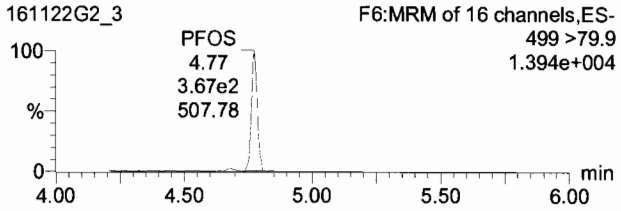


Dataset: Untitled

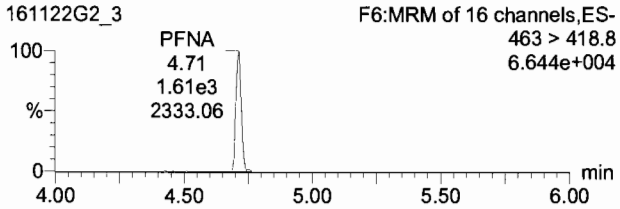
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

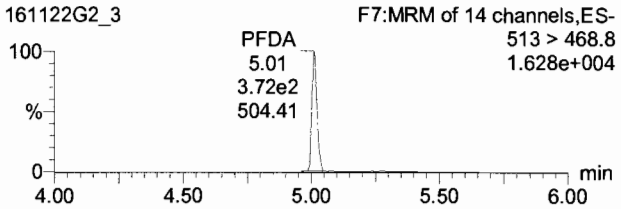
PFOS



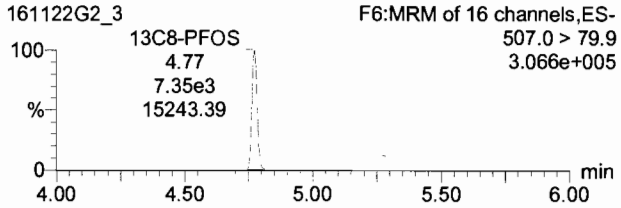
PFNA



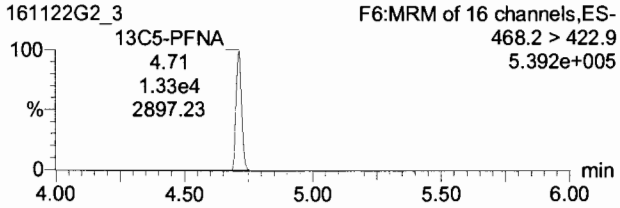
PFDA



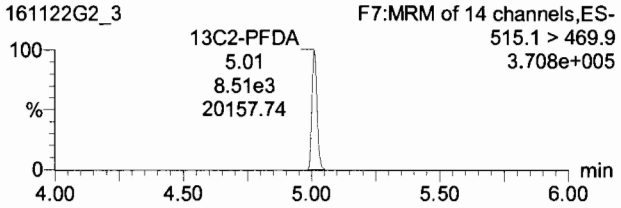
13C8-PFOS



13C5-PFNA



13C2-PFDA

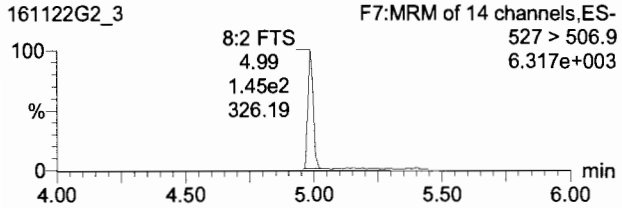


Dataset: Untitled

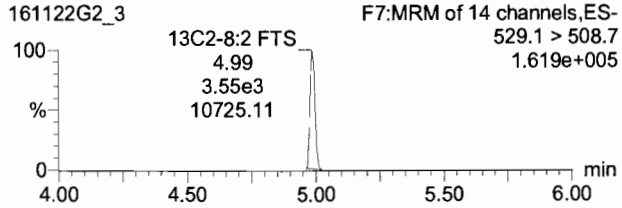
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

8:2 FTS



13C2-8:2 FTS

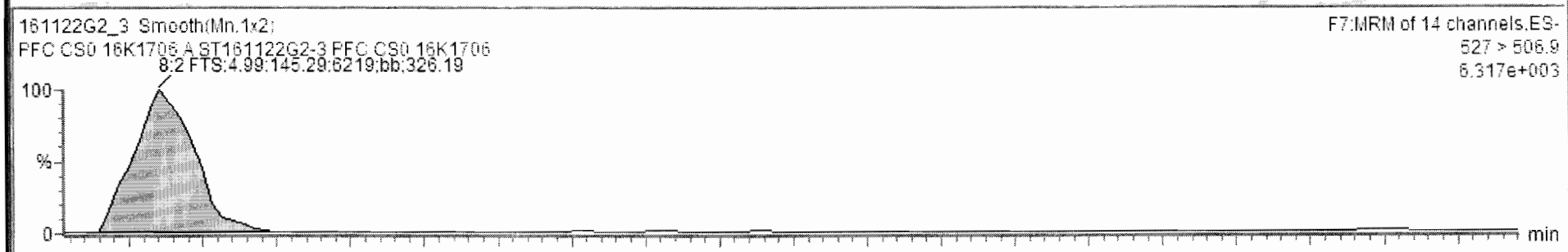


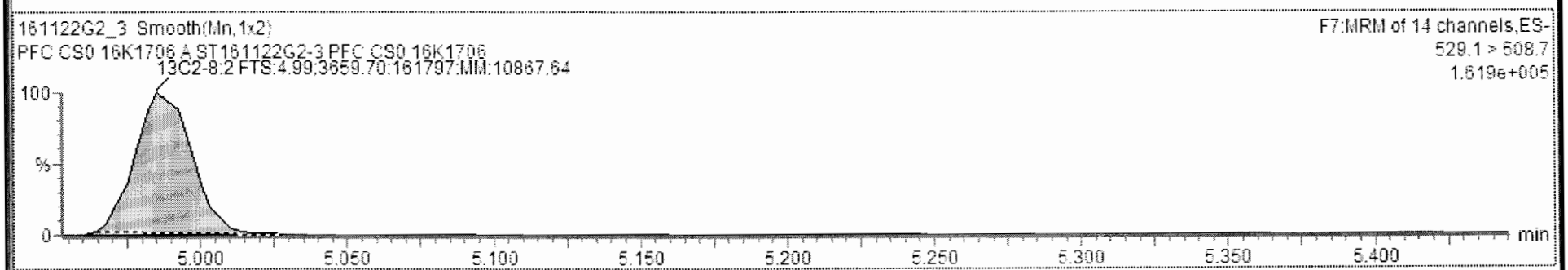
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_3 - ST161122G2-3 PFC CS0 16K1706 - PFC CS0 16K1706 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	6.55e2		1.000	3.47	3.47	0.989	NO	98.9	0.0000000
5	PFHpA	363 > 318.9	1.74e3		1.000	3.97	3.98	0.979	NO	97.9	0.0897062
6	PFHxS	398.9 > 79.6	8.63e2		1.000	4.09	4.09	1.01	NO	101.1	0.0165248
7	6:2 FTS	427.1 > 407	1.34e2		1.000	4.33	4.33	0.971	NO	97.1	0.4490742
8	PFOA	413 > 368.7	2.24e3		1.000	4.37	4.37	0.983	NO	98.3	0.0000000
9	PFHpS	449 > 98.7	1.24e2		1.000	4.37	4.45	0.834	NO	83.4	0.2545461
10	PFOS	499 >79.9	3.87e2		1.000	4.78	4.77	0.947	NO	94.7	0.2020921
11	PFNA	463 > 418.8	1.61e3		1.000	4.71	4.71	1.02	NO	102.5	0.1049328
12	PFDA	513 > 468.8	3.72e2		1.000	5.01	5.01	0.949	NO	94.9	0.0381871
13	8:2 FTS	527 > 506.9	1.45e2		1.000	4.99	4.99	0.984	NO	98.4	0.0027010
14	13C3-PFBA	216.1 > 171.8	2.25e4	1.21	1.000	1.92	1.93	12.6	NO	101.0	0.0041450
15	13C3-PFPeA	266>221.8	9.67e3	0.448	1.000	2.83	2.85	12.4	NO	99.4	0.0077179
16	13C3-PFBS	302.0 > 98.8	6.27e3	0.302	1.000	3.09	3.10	11.9	NO	95.4	0.0023082





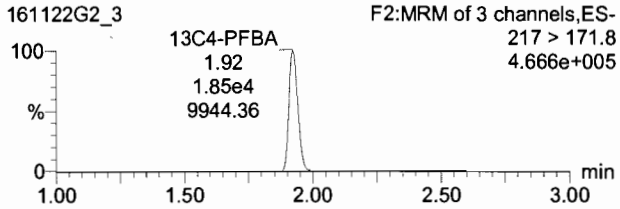
161122G2_3 CAP NUM

Dataset: Untitled

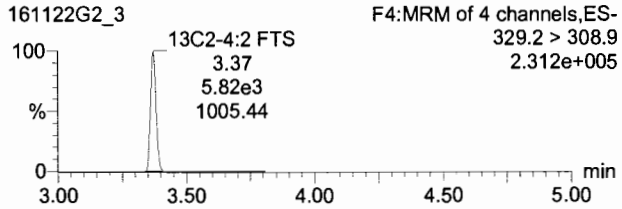
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

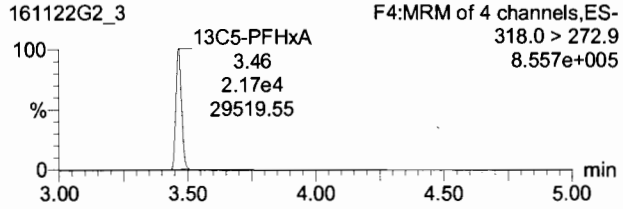
13C4-PFBA



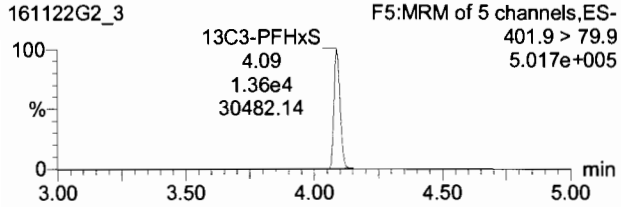
13C2-4:2 FTS



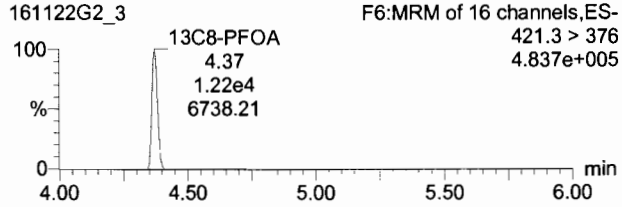
13C5-PFHxA



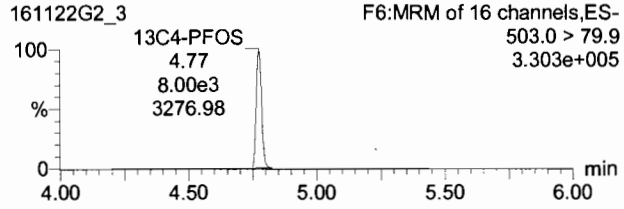
13C3-PFHxS



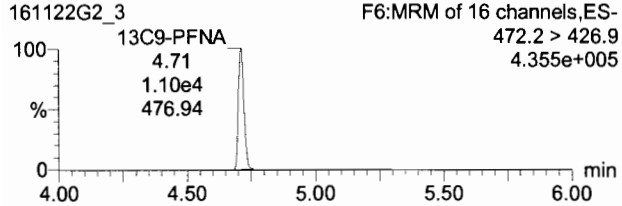
13C8-PFOA



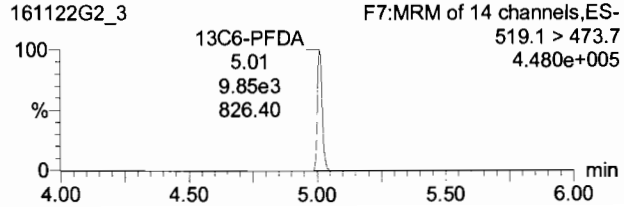
13C4-PFOS



13C9-PFNA



13C6-PFDA

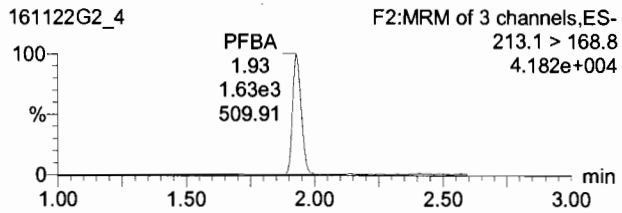


Dataset: Untitled

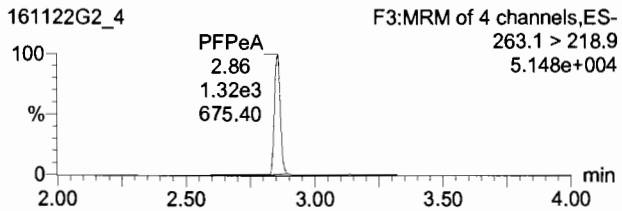
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

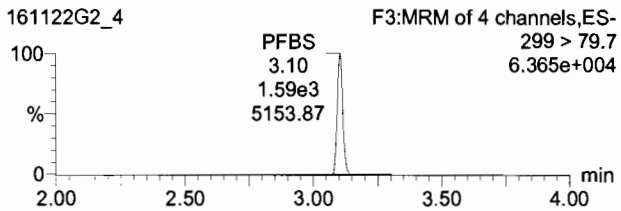
PFBA



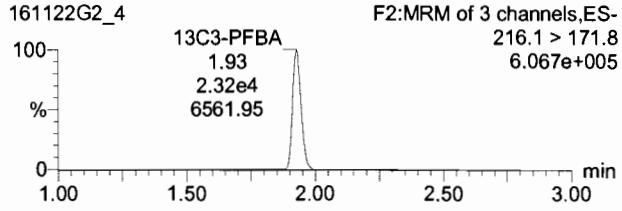
PFPeA



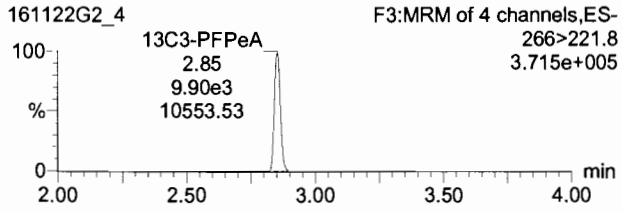
PFBS



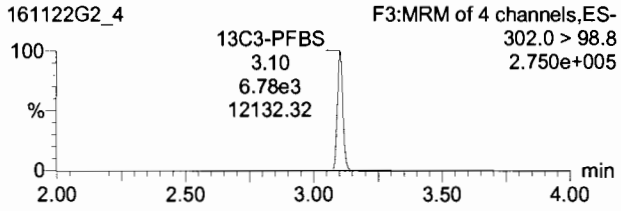
13C3-PFBA



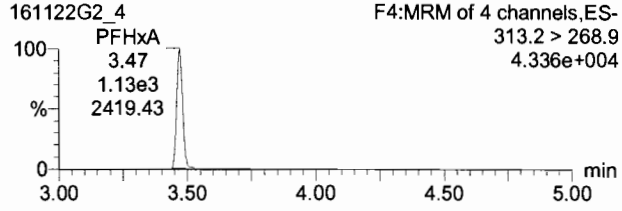
13C3-PFPeA



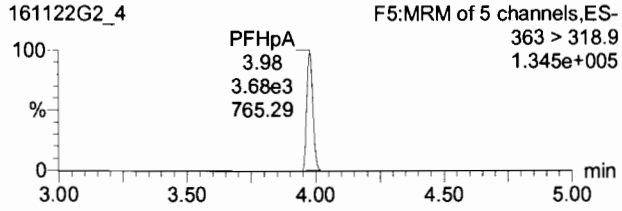
13C3-PFBS



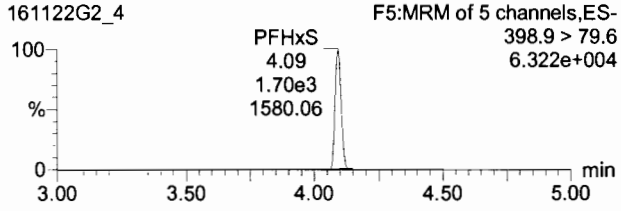
PFHxA



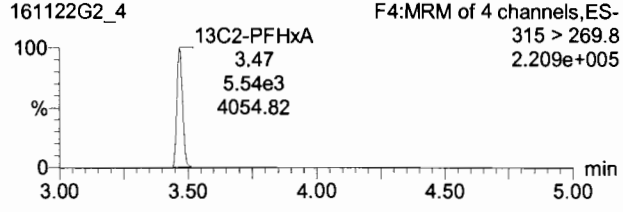
PFHpA



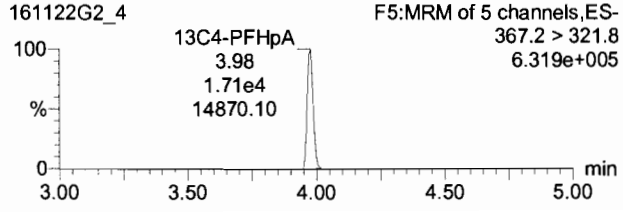
PFHxS



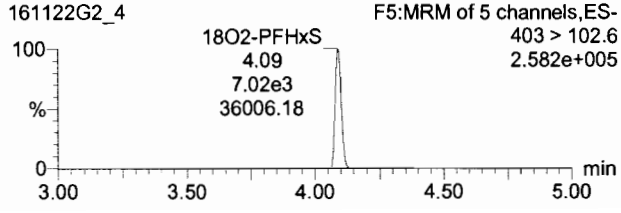
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

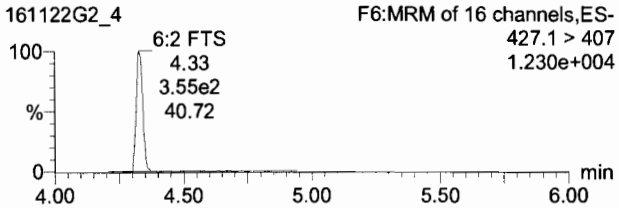


Dataset: Untitled

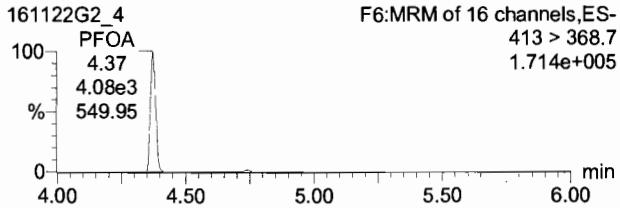
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

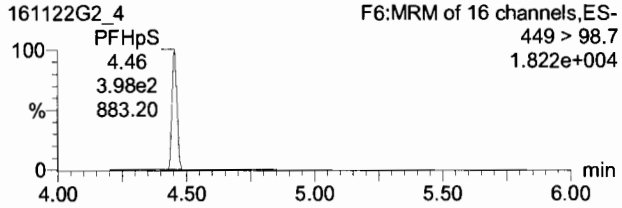
6:2 FTS



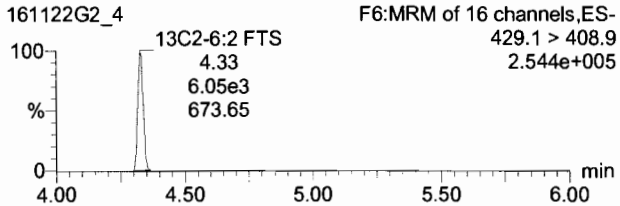
PFOA



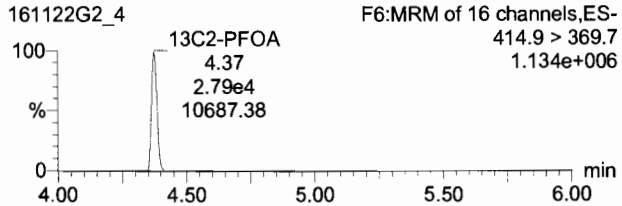
PFHpS



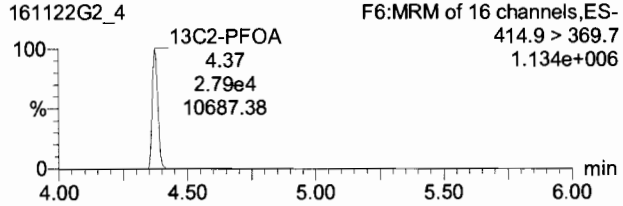
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

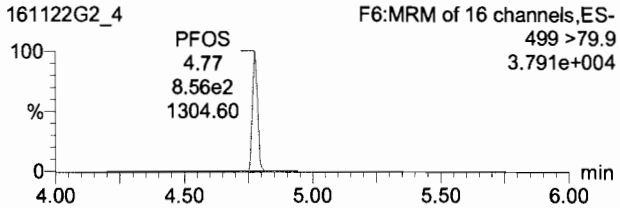


Dataset: Untitled

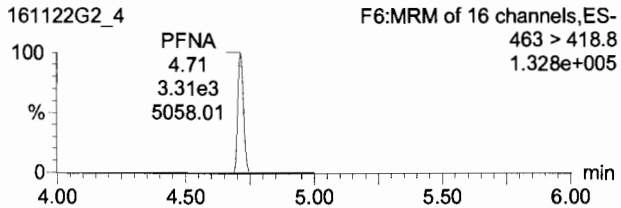
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

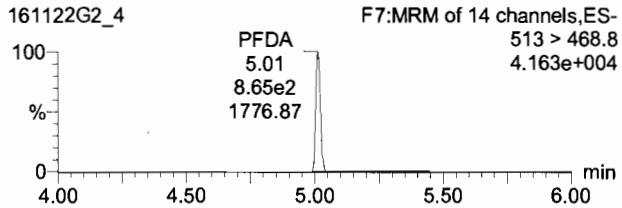
PFOS



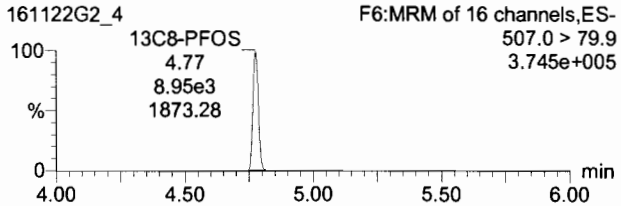
PFNA



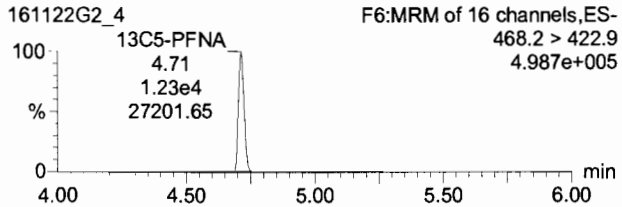
PFDA



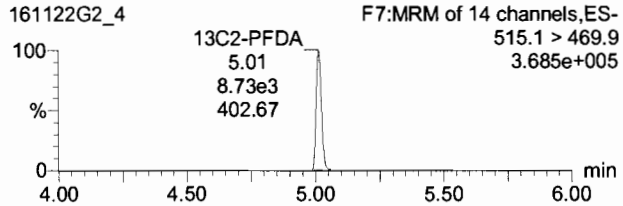
13C8-PFOS



13C5-PFNA



13C2-PFDA

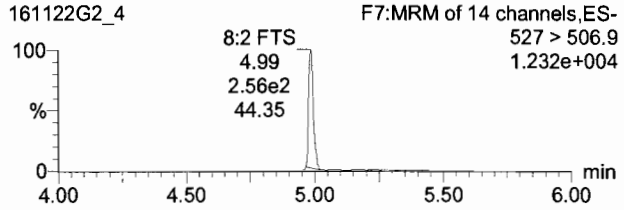


Dataset: Untitled

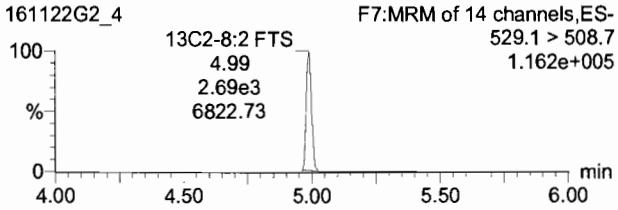
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

8:2 FTS



13C2-8:2 FTS

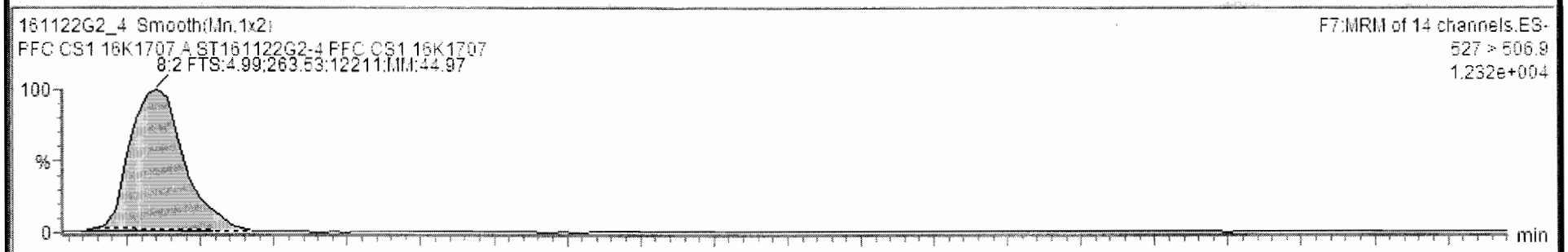


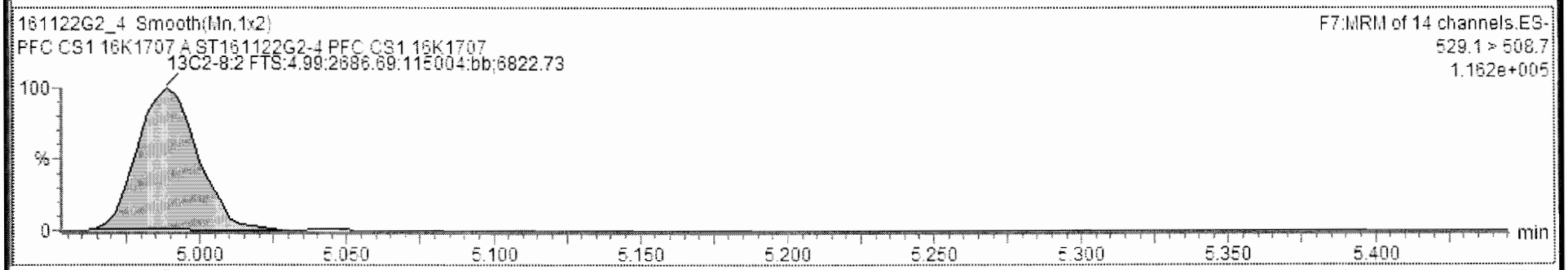
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_4 - ST161122G2-4 PFC CS1 16K1707 - PFC CS1 16K1707 A

	Name	Trace	Area	RRF	Wt/Vol.	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	1.13e3		1.000	3.47	3.47	1.69	NO	84.7	0.0000000
5	PFHpA	363 > 318.9	3.68e3		1.000	3.98	3.98	1.82	NO	90.8	0.0947461
6	PFHxS	398.9 > 79.6	1.70e3		1.000	4.09	4.09	1.78	NO	88.8	0.0182811
7	6:2 FTS	427.1 > 407	3.55e2		1.000	4.33	4.33	1.90	NO	94.8	0.5167321
8	PFOA	413 > 368.7	4.08e3		1.000	4.37	4.37	1.93	NO	96.6	0.0000000
9	PFHpS	449 > 98.7	3.98e2		1.000	4.37	4.45	2.18	NO	109.2	0.2540463
10	PFOS	499 >79.9	8.56e2		1.000	4.78	4.77	1.63	NO	81.6	0.2016580
11	PFNA	463 > 418.8	3.31e3		1.000	4.71	4.71	2.16	NO	107.8	0.1049312
12	PFDA	513 > 468.8	8.65e2		1.000	5.01	5.01	2.11	NO	105.6	0.0369790
13	8:2 FTS	527 > 506.9	2.64e2		1.000	4.99	4.99	2.44	NO	122.1	0.1423108
14	13C3-PFBA	216.1 > 171.8	2.32e4	1.21	1.000	1.93	1.93	13.4	NO	107.0	0.0051901
15	13C3-PFPeA	266>221.8	9.90e3	0.448	1.000	2.83	2.85	13.1	NO	104.8	0.0029331
16	13C3-PFBS	302.0 > 98.8	6.78e3	0.302	1.000	3.09	3.10	13.3	NO	106.4	0.0028004





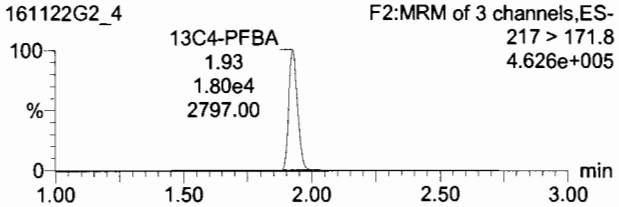
Ready 161122G2_4 CAP NUM

Dataset: Untitled

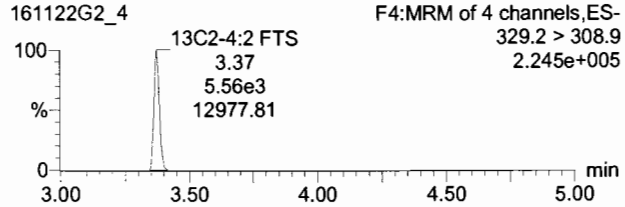
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

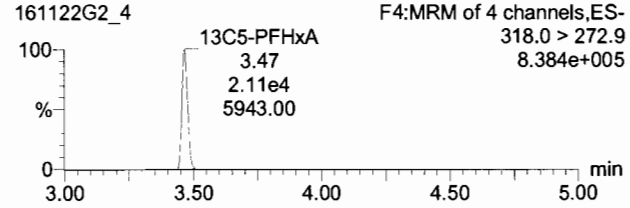
13C4-PFBA



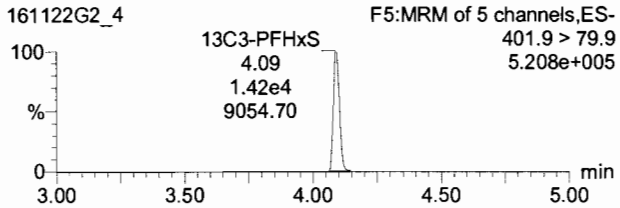
13C2-4:2 FTS



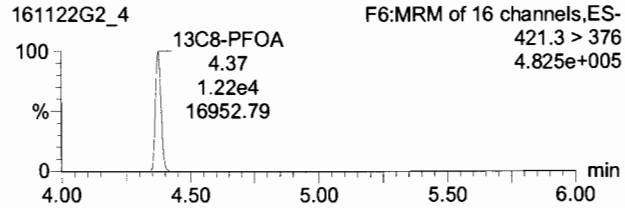
13C5-PFHxA



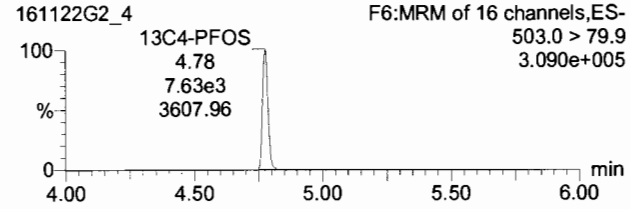
13C3-PFHxS



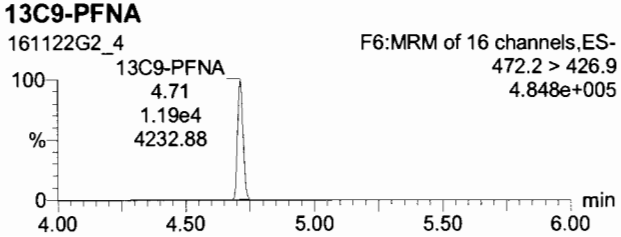
13C8-PFOA



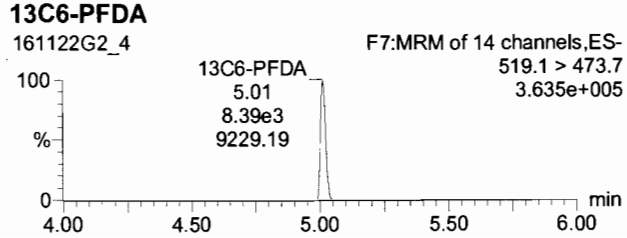
13C4-PFOS



13C9-PFNA



13C6-PFDA

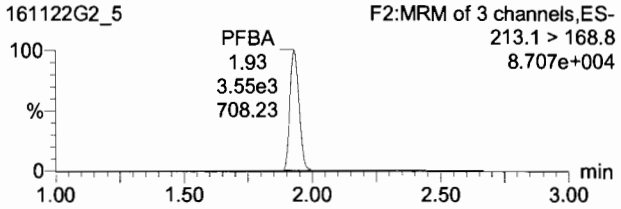


Dataset: Untitled

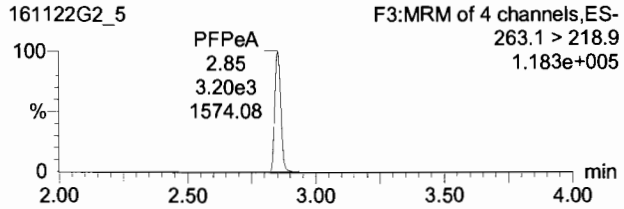
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

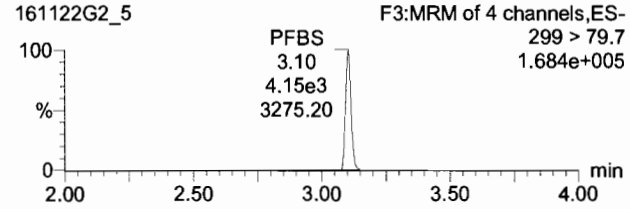
PFBA



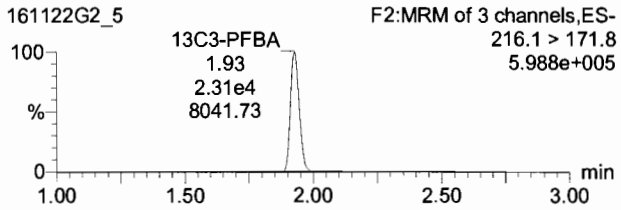
PFPeA



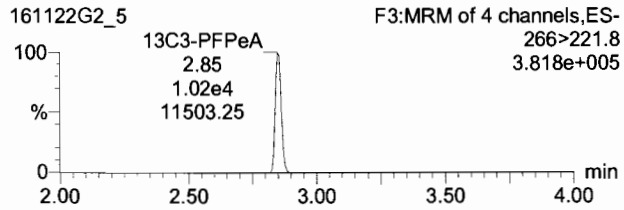
PFBS



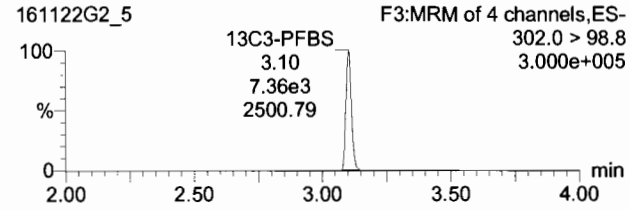
13C3-PFBA



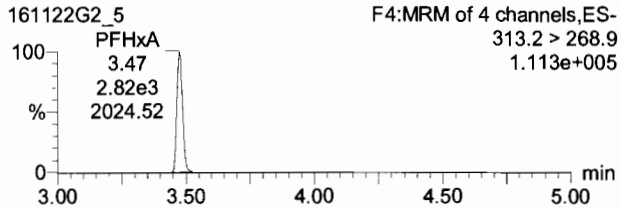
13C3-PFPeA



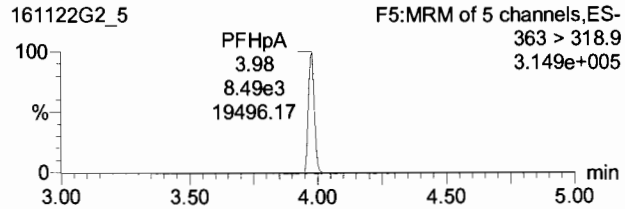
13C3-PFBS



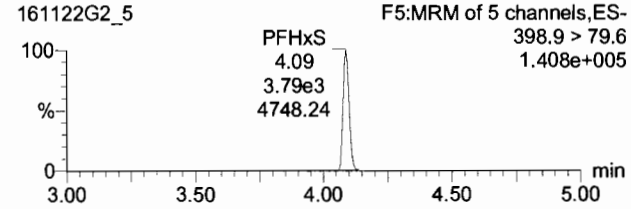
PFHxA



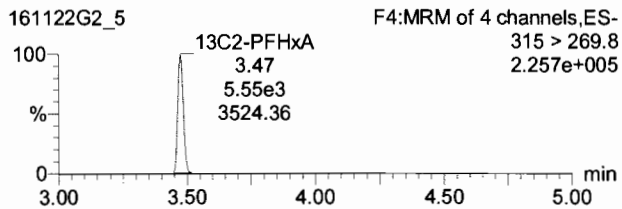
PFHpA



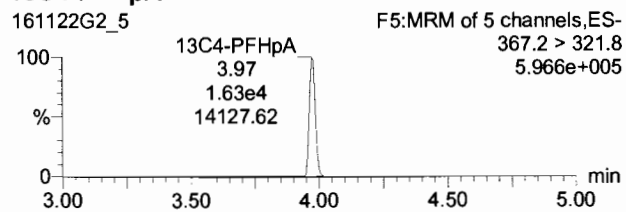
PFHxS



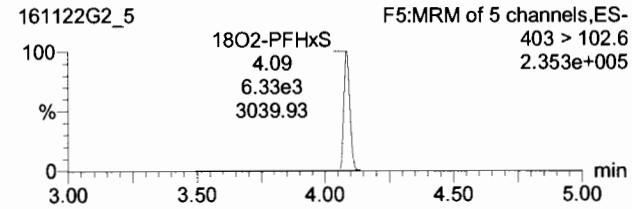
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

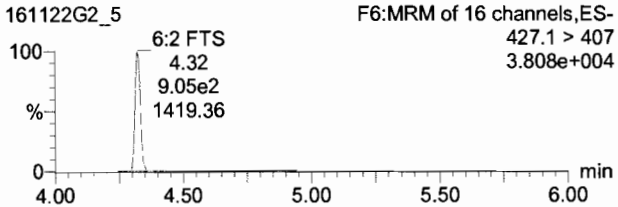


Dataset: Untitled

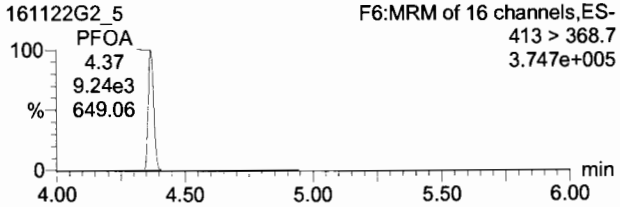
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

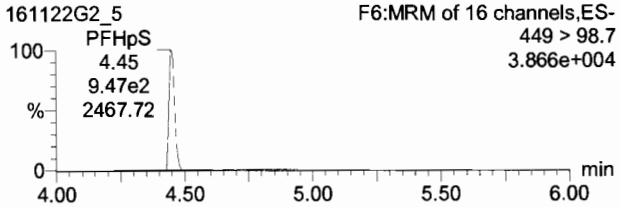
6:2 FTS



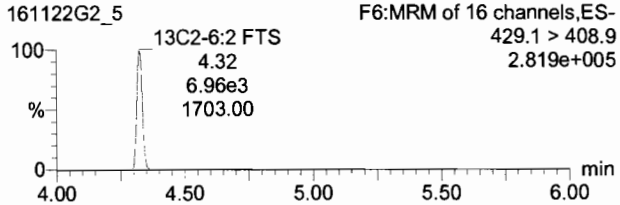
PFOA



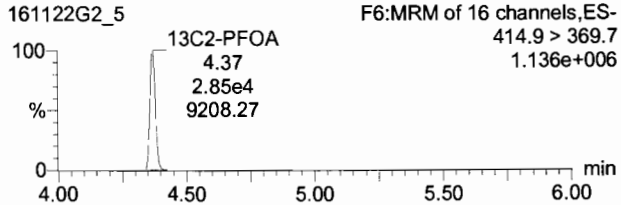
PFHpS



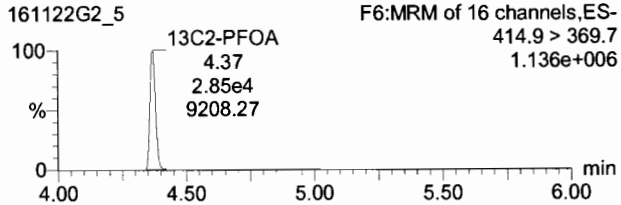
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

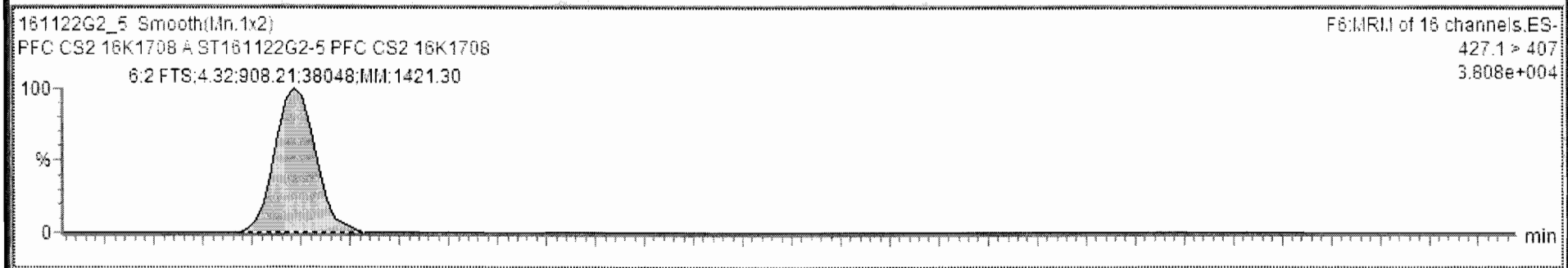


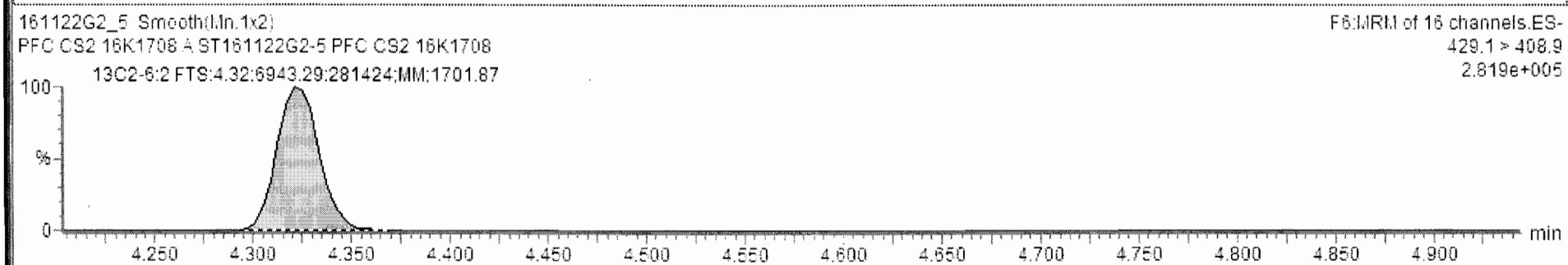
TargetLynx - untitled * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_5 - ST161122G2-5 PFC CS2 16K1708 - PFC CS2 16K1708 A

	Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
4	PFHxA	313.2 > 268.9	2.82e3	2.538	0.508	1.000	3.47	4.23	84.5	0.0000000		0.9985
5	PFHpA	363 > 318.9	8.49e3	8.514	1.303	1.000	3.98	4.28	85.7	0.0898946		0.9993
6	PFHxS	398.9 > 79.6	3.79e3	7.475	1.495	1.000	4.09	4.36	87.2	0.0177626		0.9975
7	6:2 FTS	427.1 > 407	9.08e2	1.635	0.327	1.000	4.32	4.17	83.4	0.2827957		0.9789
8	PFOA	413 > 368.7	9.24e3	4.054	0.811	1.000	4.37	4.40	88.1	0.0000000		0.9990
9	PFHpS	449 > 98.7	9.47e2	0.416	0.083	1.000	4.45	4.76	95.2	0.2525704		0.9956
10	PFOS	499 >79.9	2.17e3	3.949	0.790	1.000	4.77	4.93	98.6	0.2032607		0.9935
11	PFNA	463 > 418.8	7.19e3	7.012	1.402	1.000	4.71	4.37	87.5	0.1046439		0.9954
12	PFDA	513 > 468.8	1.70e3	2.630	0.526	1.000	5.01	4.44	88.9	0.0382137		0.9973
13	8:2 FTS	527 > 506.9	4.40e2	2.081	0.416	1.000	4.99	4.15	82.9	0.0148202		0.9823
14	13C3-PFBA	216.1 > 171.8	2.31e4	15.177	1.214	1.000	1.93	12.6	100.8	0.0039178	4.60	
15	13C3-PFPeA	266>221.8	1.02e4	5.822	0.466	1.000	2.85	13.0	104.1	0.0026412	3.92	
16	13C3-PFBS	302.0 > 98.8	7.36e3	4.183	0.335	1.000	3.10	13.8	110.8	0.0141320	5.67	





Ready 161122G2_5 CAP NUM

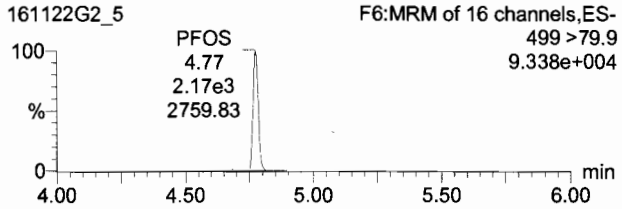
Vista Analytical Laboratory Q1

Dataset: Untitled

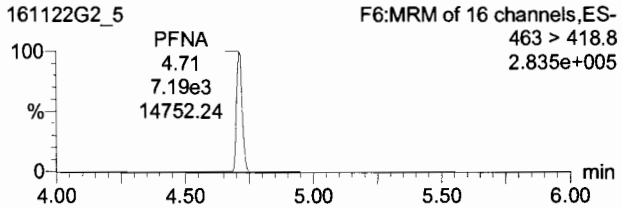
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

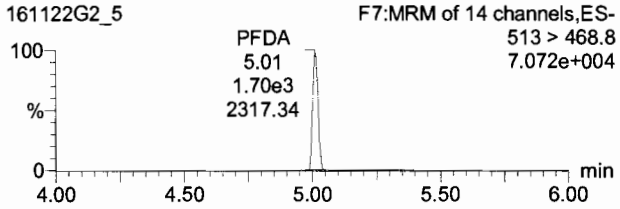
PFOS



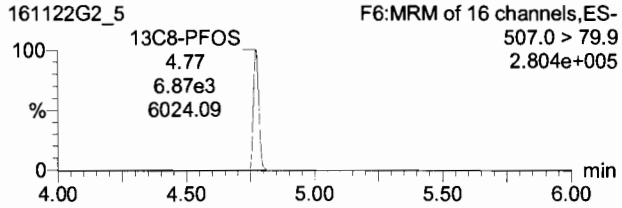
PFNA



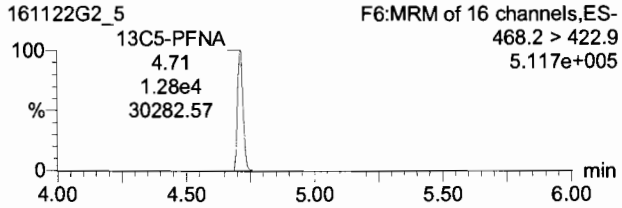
PFDA



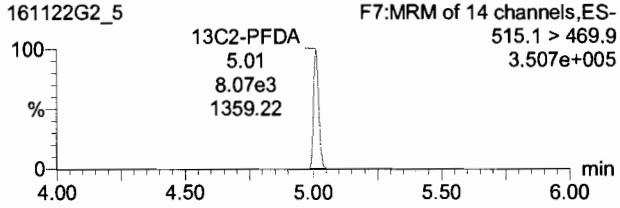
13C8-PFOS



13C5-PFNA



13C2-PFDA

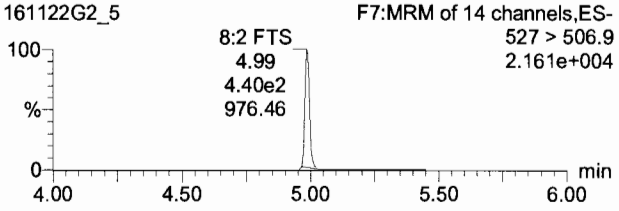


Dataset: Untitled

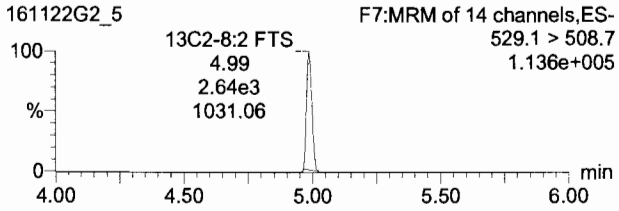
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

8:2 FTS



13C2-8:2 FTS

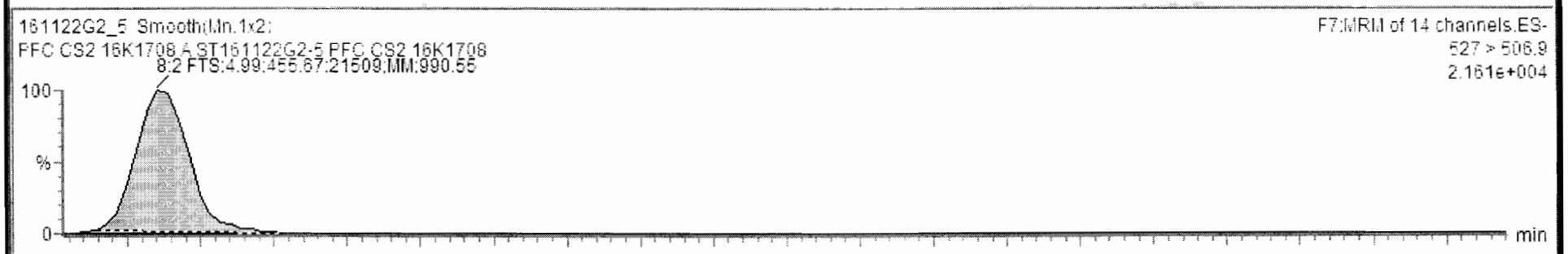


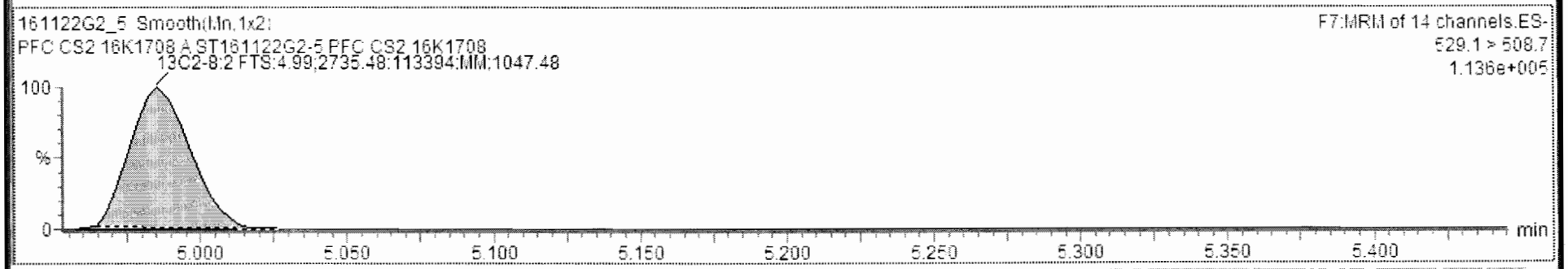
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_5 - ST161122G2-5 PFC CS2 16K1708 - PFC CS2 16K1708 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	2.82e3		1.000	3.47	3.47	4.23	NO	84.5	0.0000000
5	PFHpA	363 > 318.9	8.49e3		1.000	3.97	3.98	4.28	NO	85.7	0.0896946
6	PFHxS	398.9 > 79.6	3.79e3		1.000	4.09	4.09	4.36	YES	87.2	0.0177626
7	6:2 FTS	427.1 > 407	9.08e2		1.000	4.32	4.32	3.69	NO	73.9	0.4496157
8	PFOA	413 > 368.7	9.24e3		1.000	4.37	4.37	4.40	YES	88.1	0.0000000
9	PFHpS	449 > 98.7	9.47e2		1.000	4.37	4.45	4.76	YES	95.2	0.2525704
10	PFOS	499 >79.9	2.17e3		1.000	4.77	4.77	4.93	YES	98.6	0.2032607
11	PFNA	463 > 418.8	7.19e3		1.000	4.71	4.71	4.37	YES	87.5	0.1046439
12	PFDA	513 > 468.8	1.70e3		1.000	5.01	5.01	4.44	NO	88.9	0.0382137
13	8:2 FTS	527 > 506.9	4.56e2		1.000	4.99	4.99	4.16	NO	83.2	0.0072296
14	13C3-PFBA	216.1 > 171.8	2.31e4	1.21	1.000	1.93	1.93	12.6	NO	100.8	0.0039178
15	13C3-PFPeA	266>221.8	1.02e4	0.448	1.000	2.84	2.85	13.0	NO	104.1	0.0026412
16	13C3-PFBS	302.0 > 98.8	7.36e3	0.302	1.000	3.10	3.10	13.8	NO	110.8	0.0141320





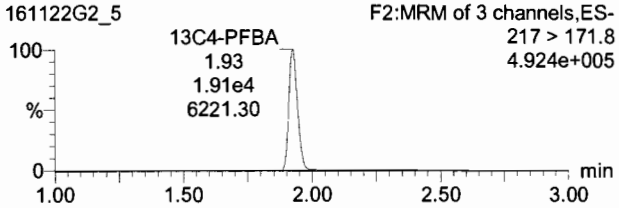
Ready 161122G2_5 CAP NUM

Dataset: Untitled

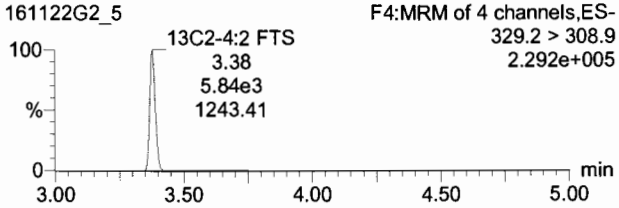
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

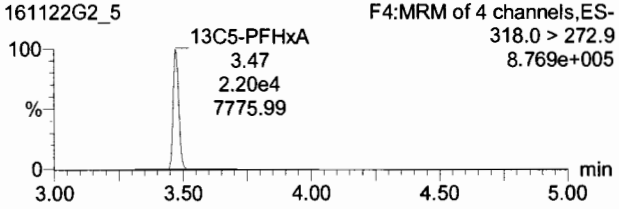
13C4-PFBA



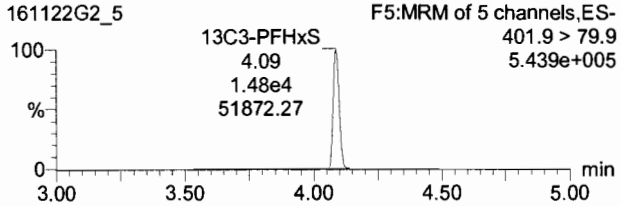
13C2-4:2 FTS



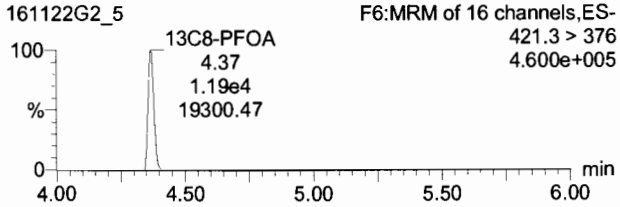
13C5-PFHxA



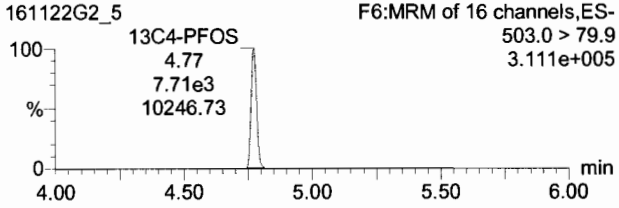
13C3-PFHxS



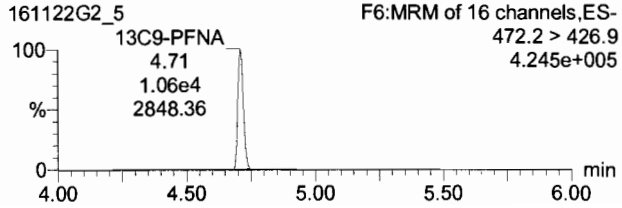
13C8-PFOA



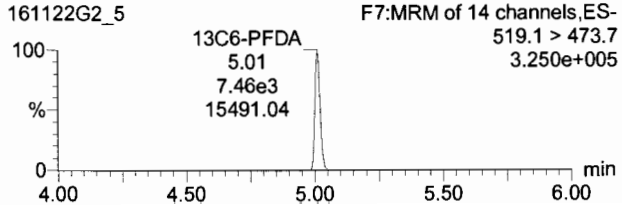
13C4-PFOS



13C9-PFNA



13C6-PFDA

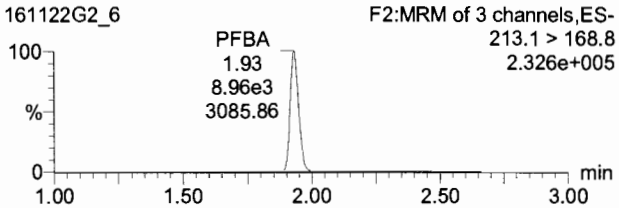


Dataset: Untitled

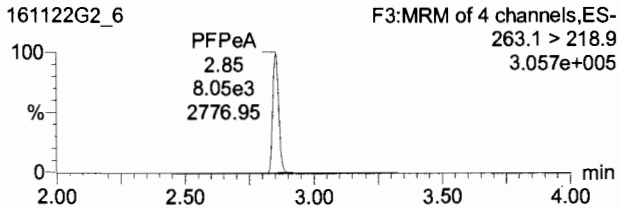
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

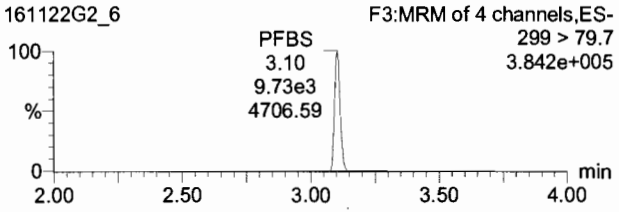
PFBA



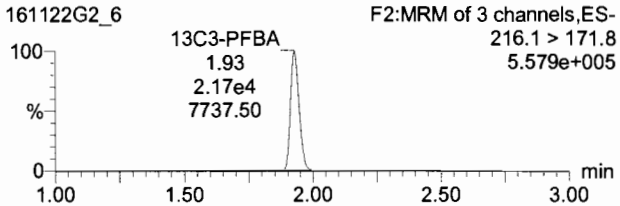
PFPeA



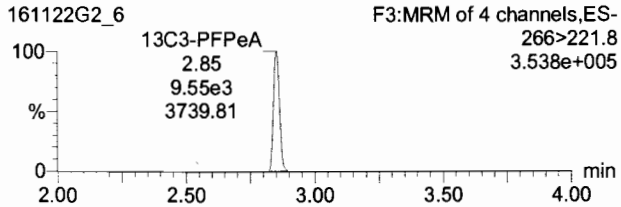
PFBS



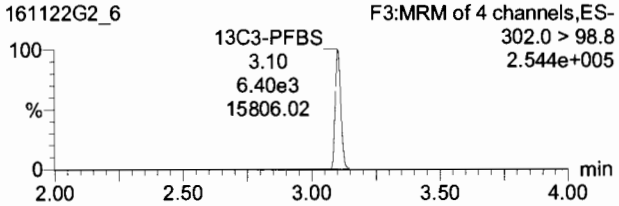
13C3-PFBA



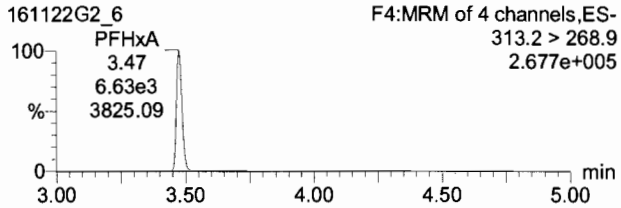
13C3-PFPeA



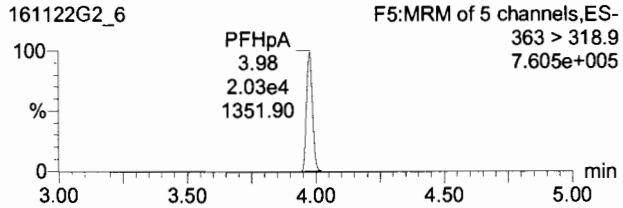
13C3-PFBS



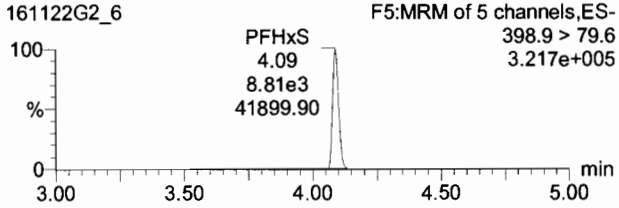
PFHxA



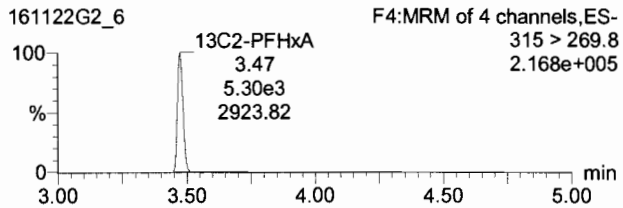
PFHpA



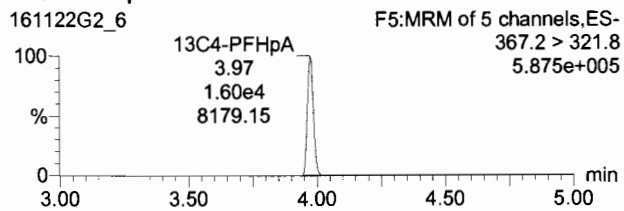
PFHxS



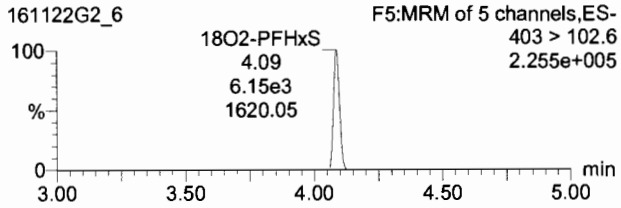
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

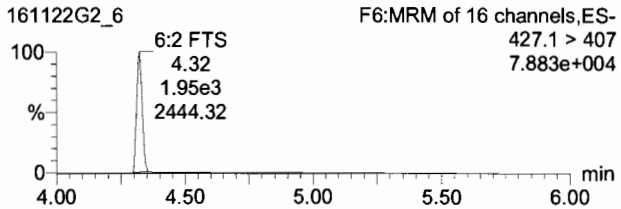


Dataset: Untitled

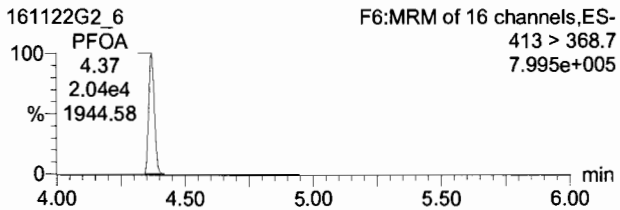
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

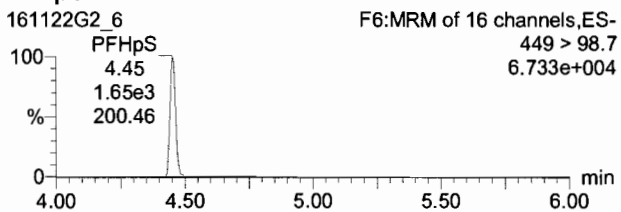
6:2 FTS



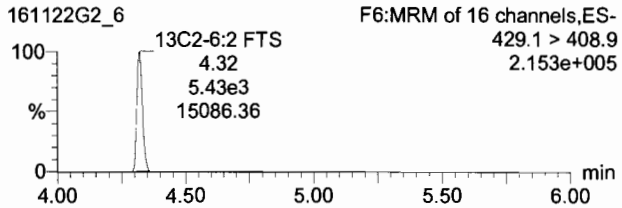
PFOA



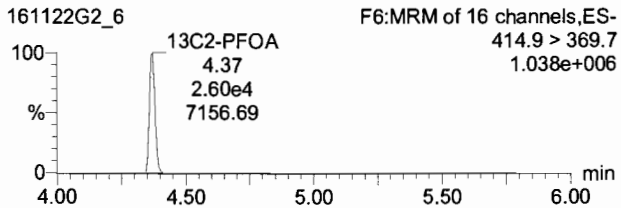
PFHpS



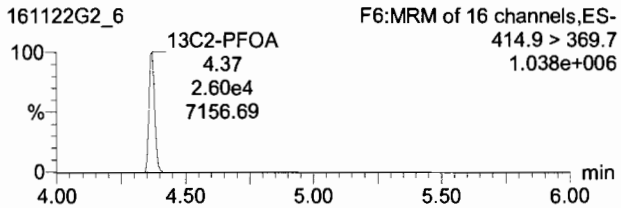
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

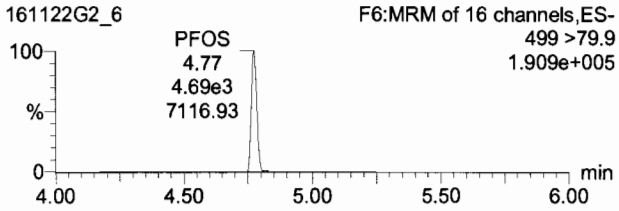


Dataset: Untitled

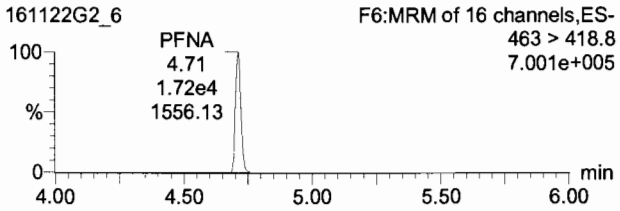
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

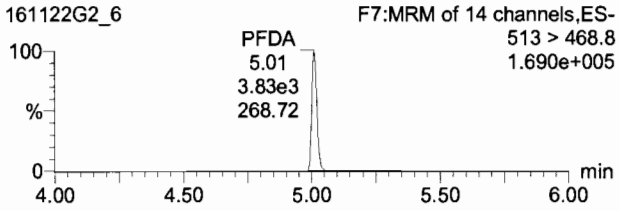
PFOS



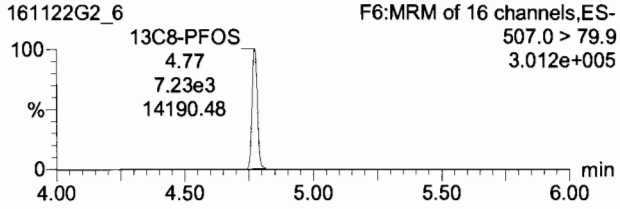
PFNA



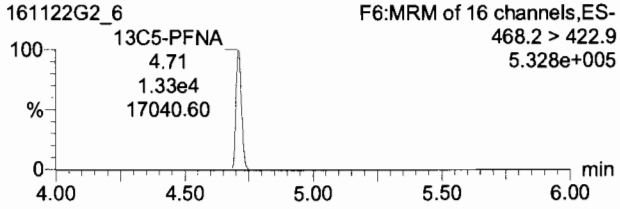
PFDA



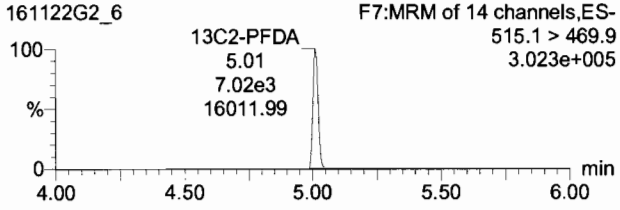
13C8-PFOS



13C5-PFNA



13C2-PFDA

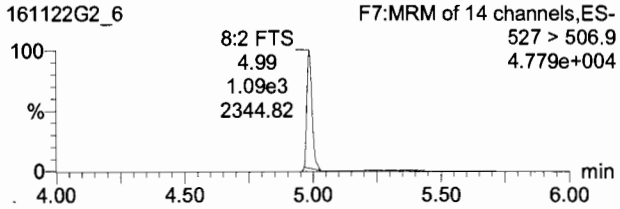


Dataset: Untitled

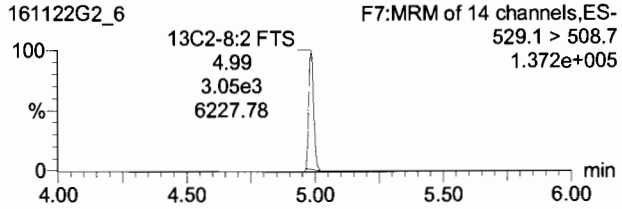
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

8:2 FTS



13C2-8:2 FTS

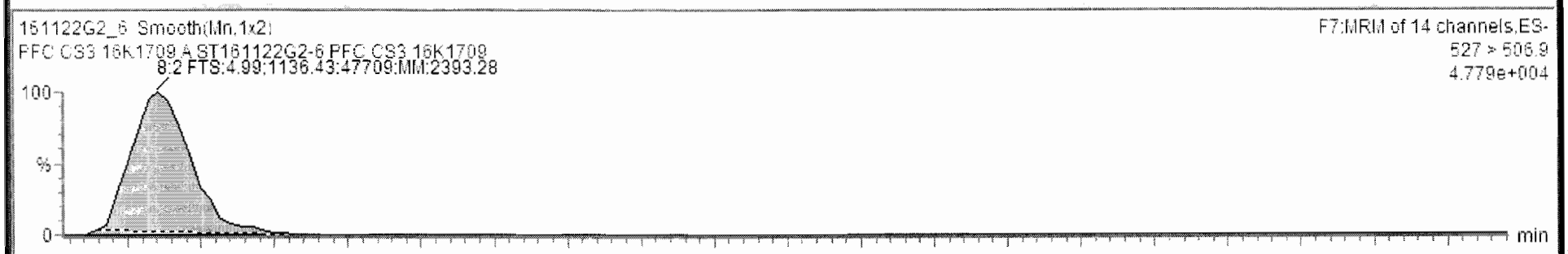


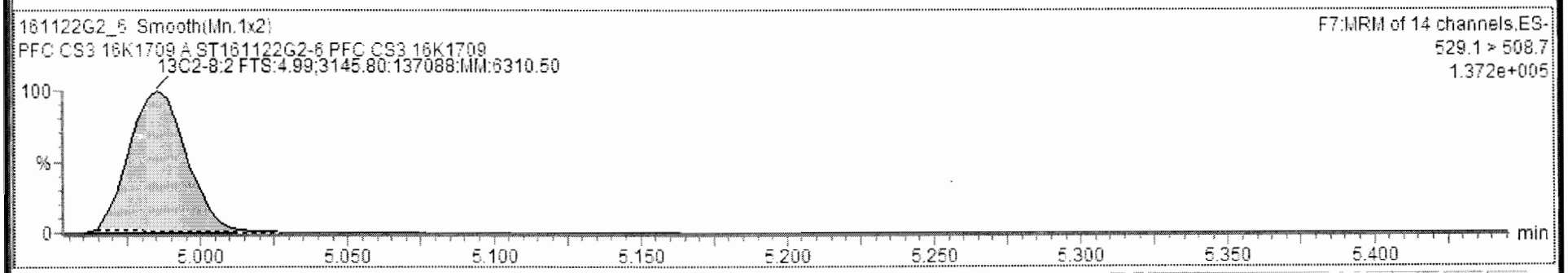
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_6 - ST161122G2-6 PFC CS3 16K1709 - PFC CS3 16K1709 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	6.63e3		1.000	3.47	3.47	10.4	YES	104.3	0.0000000
5	PFHpA	363 > 318.9	2.03e4		1.000	3.97	3.98	10.3	YES	103.0	0.1083914
6	PFHxS	398.9 > 79.6	8.81e3		1.000	4.09	4.09	10.4	YES	104.1	0.0160911
7	6:2 FTS	427.1 > 407	1.95e3		1.000	4.32	4.32	9.48	YES	94.8	0.4529547
8	PFOA	413 > 368.7	2.04e4		1.000	4.37	4.37	10.8	YES	108.1	0.0000000
9	PFHpS	449 > 98.7	1.65e3		1.000	4.37	4.45	8.86	YES	88.6	0.3575371
10	PFOS	499 >79.9	4.65e3		1.000	4.76	4.77	9.90	YES	99.0	0.2020896
11	PFNA	463 > 418.8	1.72e4		1.000	4.71	4.71	10.0	YES	100.1	0.1200018
12	PFDA	513 > 468.8	3.83e3		1.000	5.01	5.01	11.5	NO	114.8	0.1427597
13	8:2 FTS	527 > 506.9	1.14e3		1.000	4.99	4.99	9.07	YES	90.7	0.0043622
14	13C3-PFBA	216.1 > 171.8	2.17e4	1.21	1.000	1.93	1.93	13.3	NO	106.8	0.0044280
15	13C3-PFPeA	266>221.8	9.55e3	0.448	1.000	2.84	2.85	12.4	NO	99.4	0.0076173
16	13C3-PFBS	302.0 > 98.8	6.40e3	0.302	1.000	3.10	3.10	12.3	NO	98.6	0.0019245





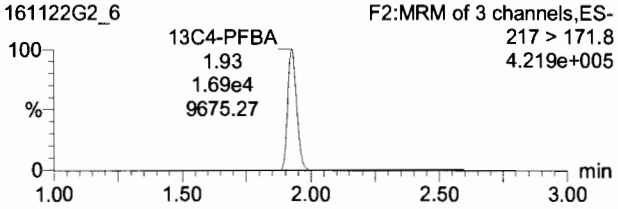
Ready 161122G2_6 CAP NUM

Dataset: Untitled

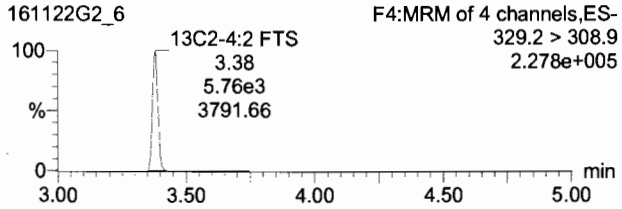
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

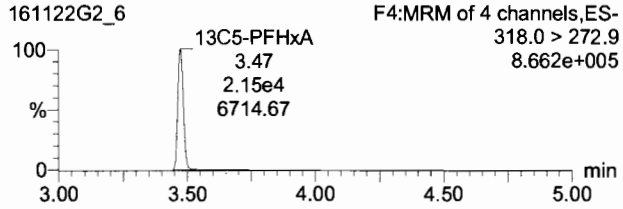
13C4-PFBA



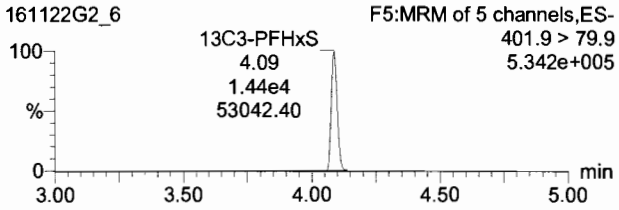
13C2-4:2 FTS



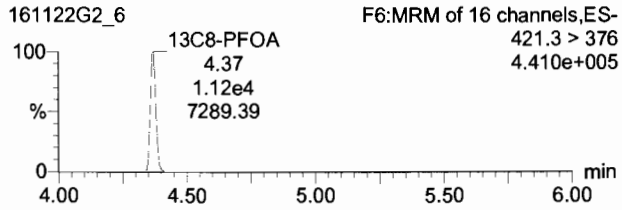
13C5-PFHxA



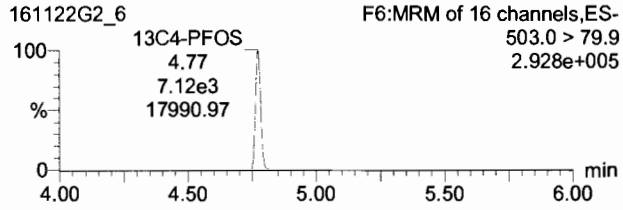
13C3-PFHxS



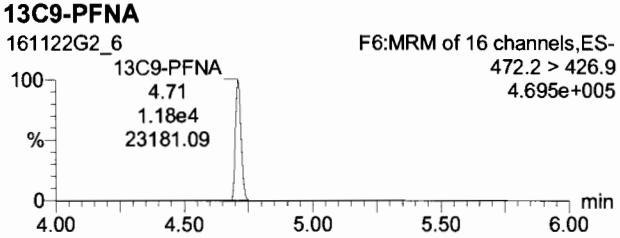
13C8-PFOA



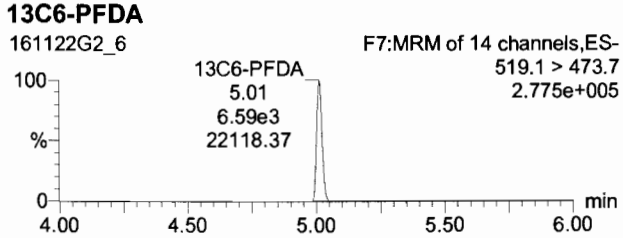
13C4-PFOS



13C9-PFNA



13C6-PFDA

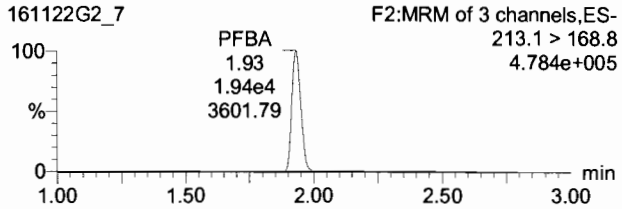


Dataset: Untitled

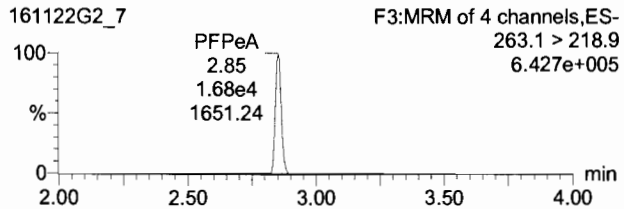
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

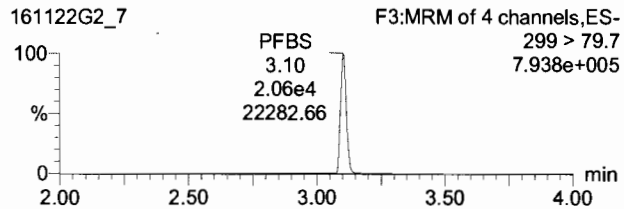
PFBA



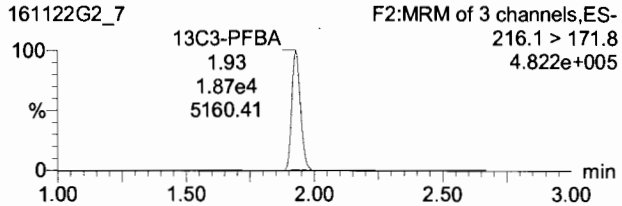
PFPeA



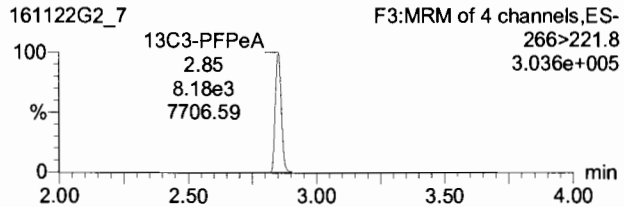
PFBS



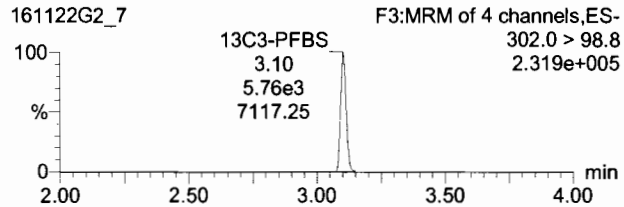
13C3-PFBA



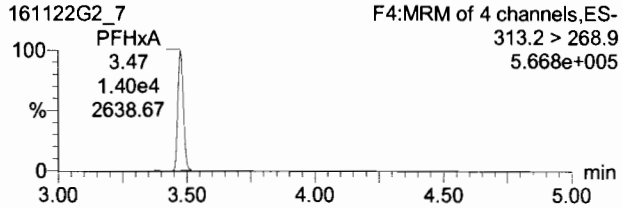
13C3-PFPeA



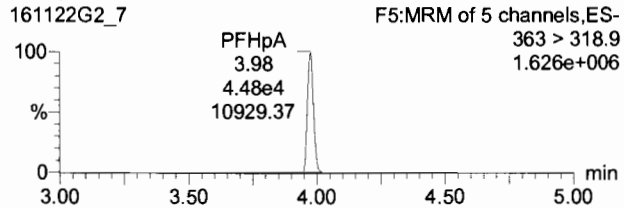
13C3-PFBS



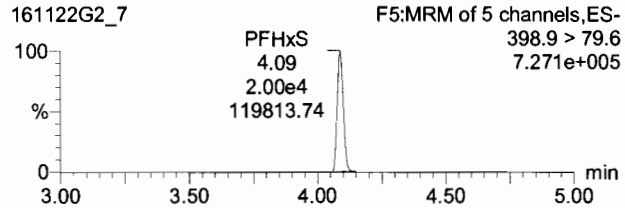
PFHxA



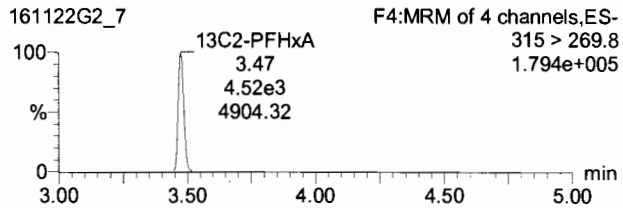
PFHpA



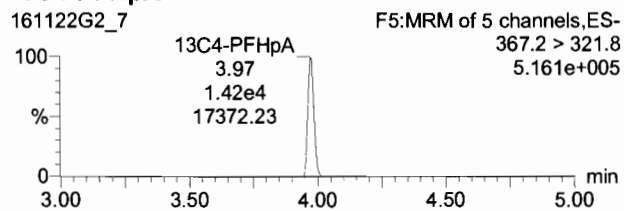
PFHxS



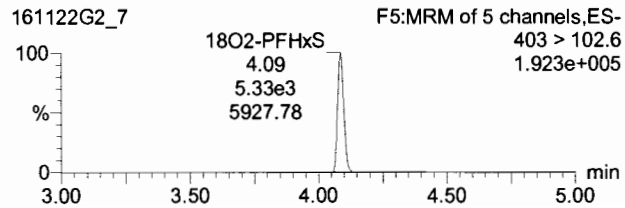
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

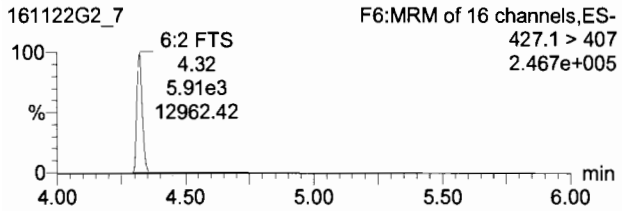


Dataset: Untitled

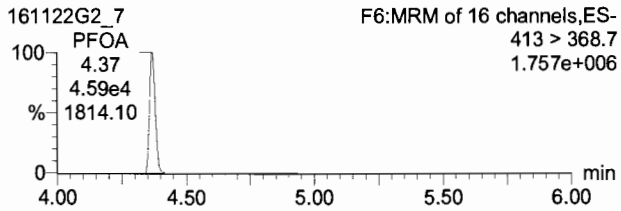
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

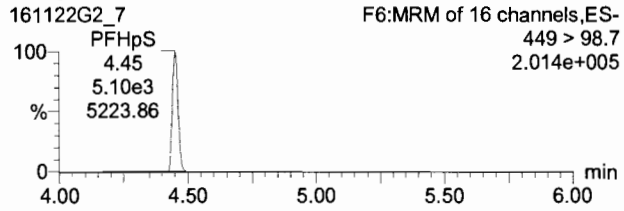
6:2 FTS



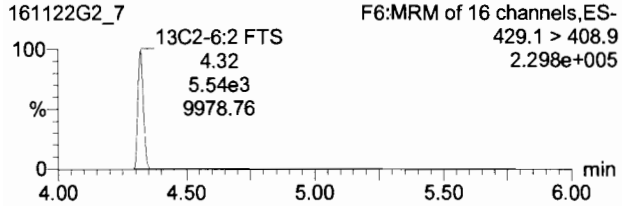
PFOA



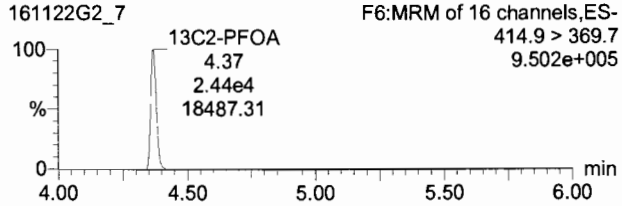
PFHpS



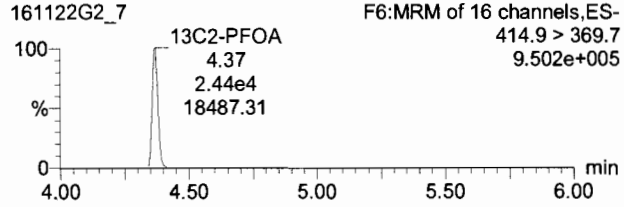
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

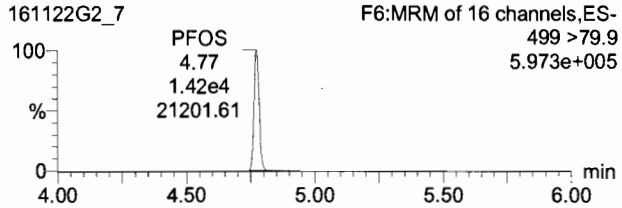


Dataset: Untitled

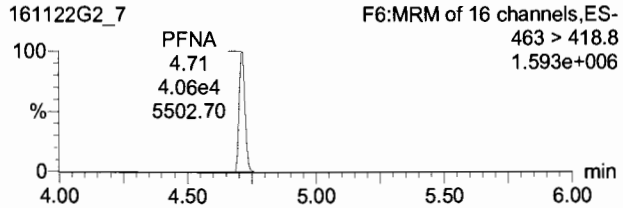
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

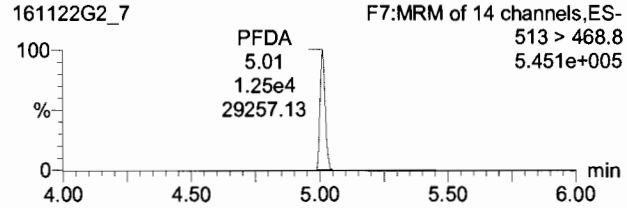
PFOS



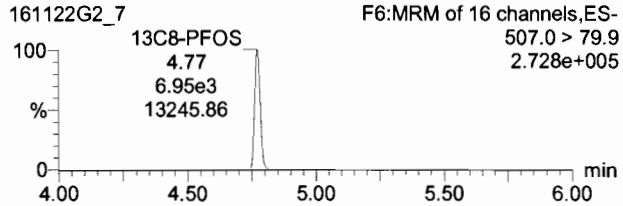
PFNA



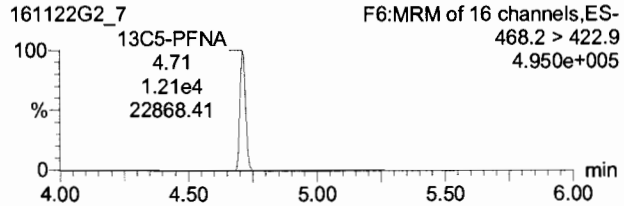
PFDA



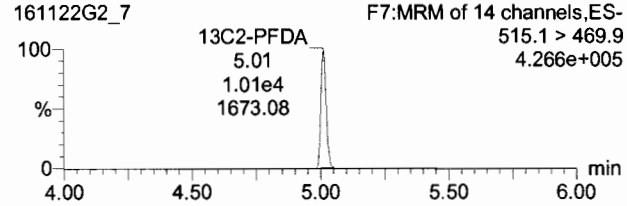
13C8-PFOS



13C5-PFNA



13C2-PFDA

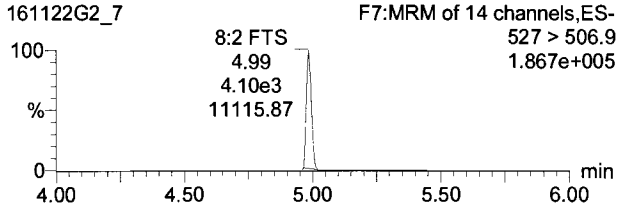


Dataset: Untitled

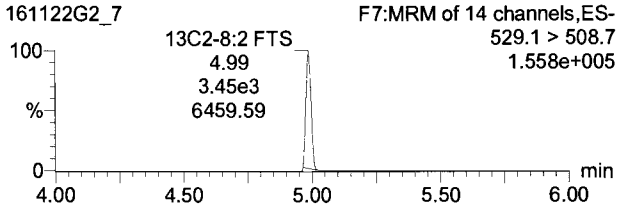
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

8:2 FTS



13C2-8:2 FTS

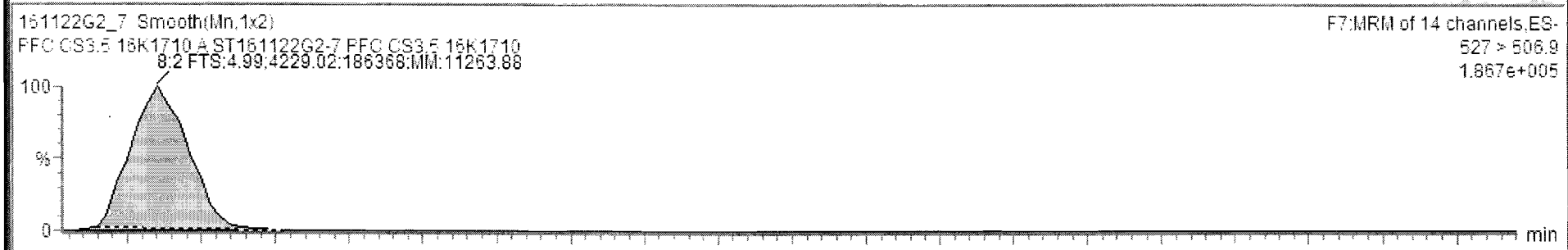


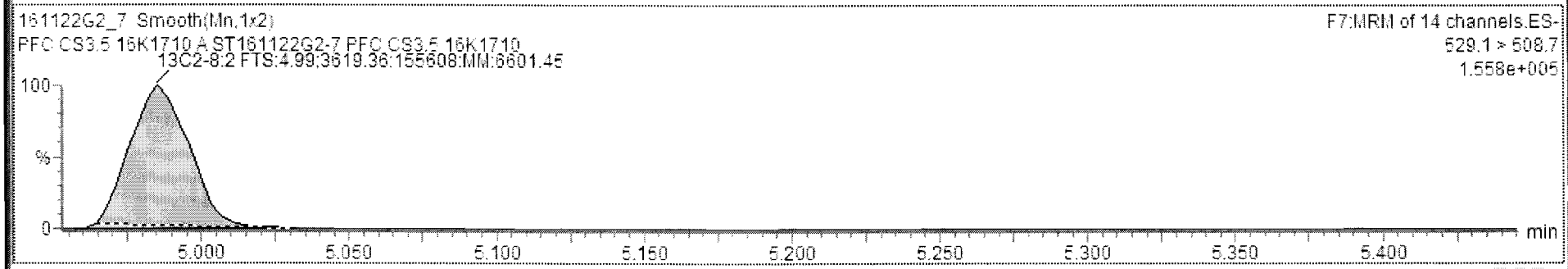
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_7 - ST161122G2-7 PFC CS3.5 16K1710 - PFC CS3.5 16K1710 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	1.40e4		1.000	3.47	3.47	25.9	YES	103.6	0.0090379
5	PFHpA	363 > 318.9	4.48e4		1.000	3.97	3.98	25.4	YES	101.7	0.0949494
6	PFHxS	398.9 > 79.6	2.00e4		1.000	4.09	4.09	27.2	YES	108.9	0.0160447
7	6:2 FTS	427.1 > 407	5.91e3		1.000	4.32	4.32	28.5	YES	113.9	0.4488633
8	PFOA	413 > 368.7	4.59e4		1.000	4.37	4.37	26.0	YES	104.2	0.0000000
9	PFHpS	449 > 98.7	5.10e3		1.000	4.37	4.45	28.6	YES	114.5	0.2816468
10	PFOS	499 >79.9	1.42e4		1.000	4.77	4.77	30.8	YES	123.3	0.2026154
11	PFNA	463 > 418.8	4.06e4		1.000	4.71	4.71	25.6	YES	102.3	0.1150546
12	PFDA	513 > 468.8	1.25e4		1.000	5.01	5.01	26.1	NO	104.4	0.0359399
13	8:2 FTS	527 > 506.9	4.23e3		1.000	4.99	4.99	29.9	YES	119.7	0.0019300
14	13C3-PFBA	216.1 > 171.8	1.87e4	1.21	1.000	1.93	1.93	12.3	NO	98.0	0.0059810
15	13C3-PFPeA	266>221.8	8.18e3	0.448	1.000	2.84	2.85	12.1	NO	96.9	0.0036860
16	13C3-PFBS	302.0 > 98.8	5.76e3	0.302	1.000	3.10	3.10	12.6	NO	101.1	0.0045187





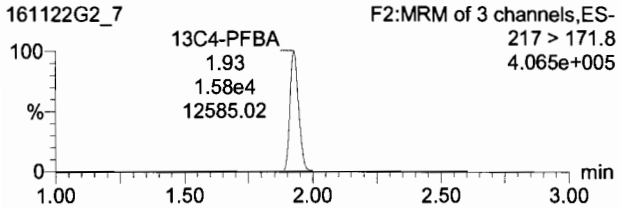
161122G2_7 CAP NUM

Dataset: Untitled

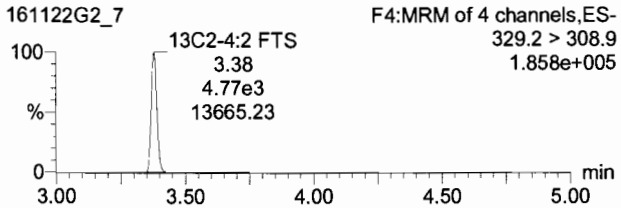
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

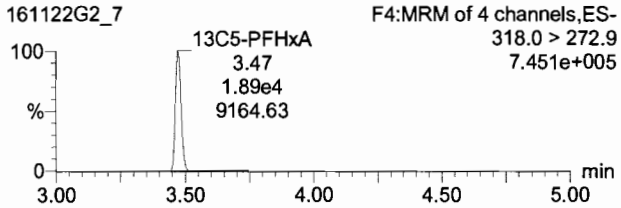
13C4-PFBA



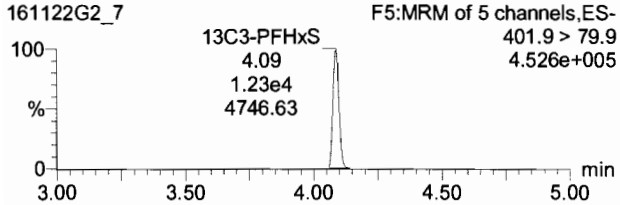
13C2-4:2 FTS



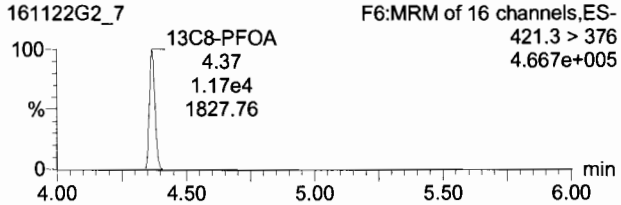
13C5-PFHxA



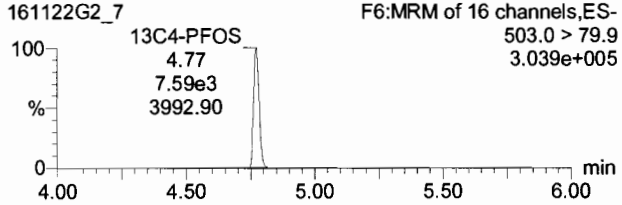
13C3-PFHxS



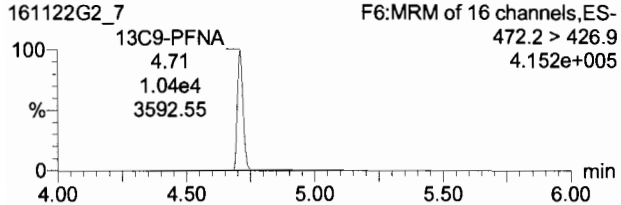
13C8-PFOA



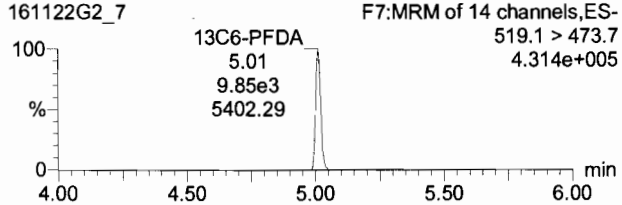
13C4-PFOS



13C9-PFNA



13C6-PFDA

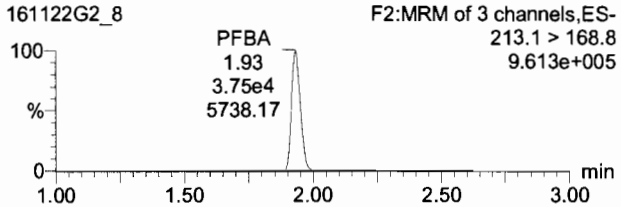


Dataset: Untitled

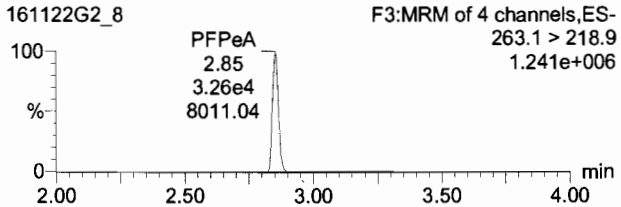
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

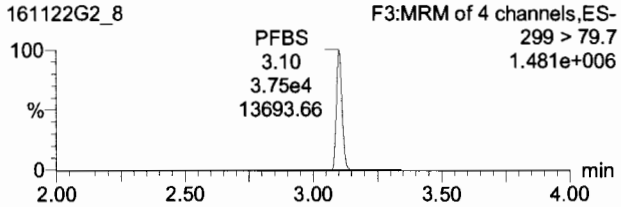
PFBA



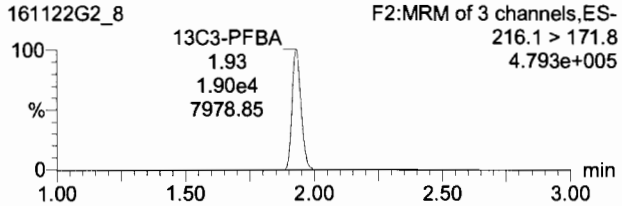
PFPeA



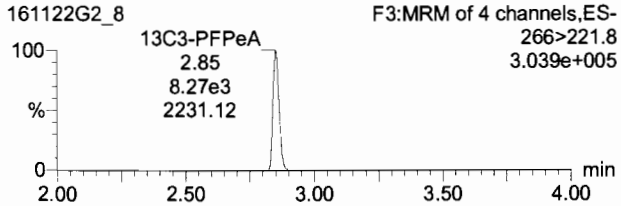
PFBS



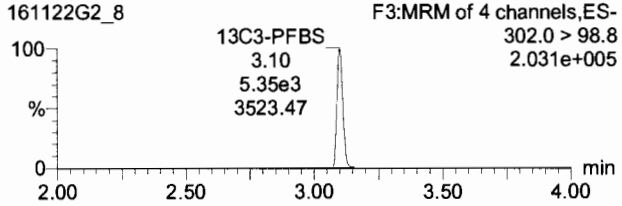
13C3-PFBA



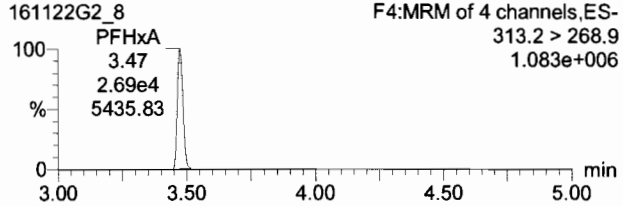
13C3-PFPeA



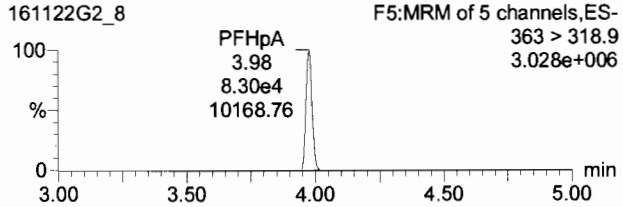
13C3-PFBS



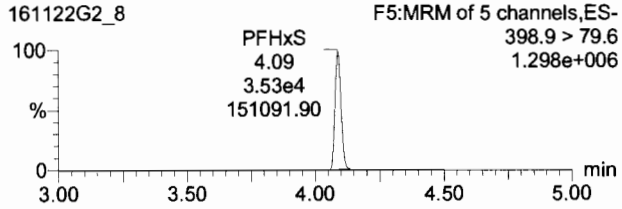
PFHxA



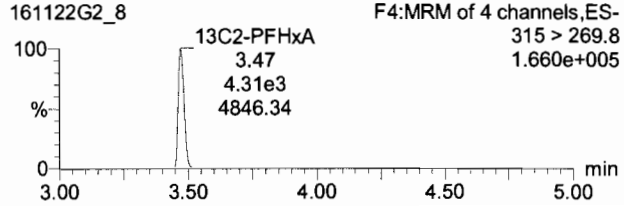
PFHpA



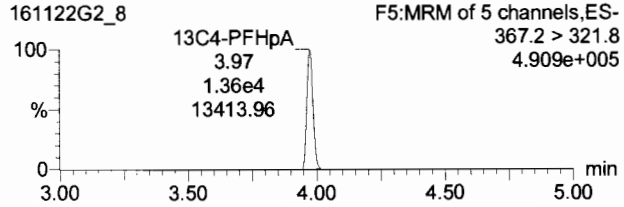
PFHxS



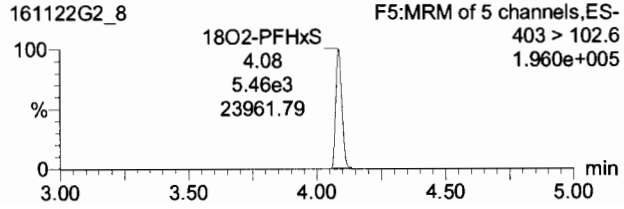
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

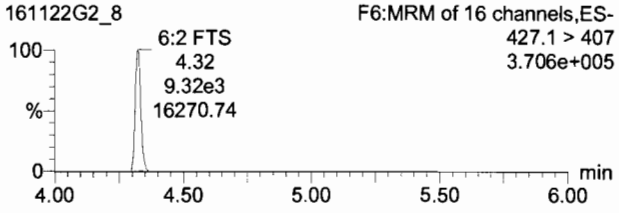


Dataset: Untitled

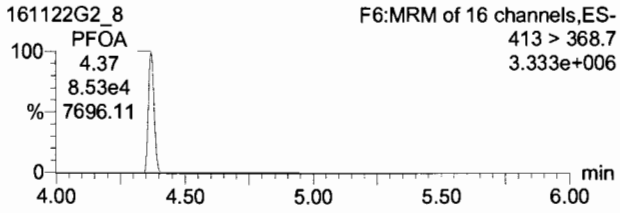
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

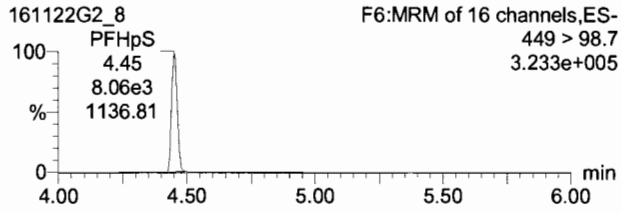
6:2 FTS



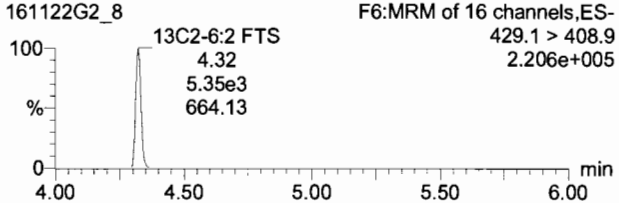
PFOA



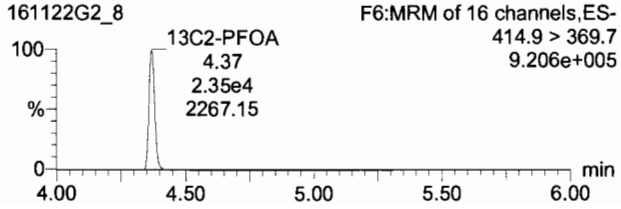
PFHpS



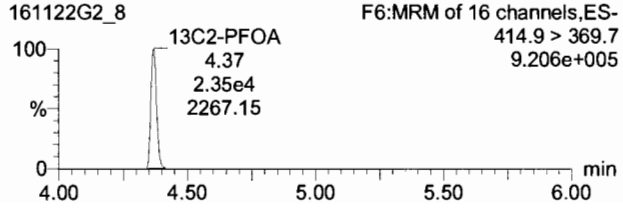
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

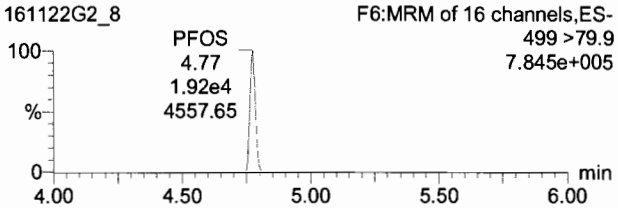


Dataset: Untitled

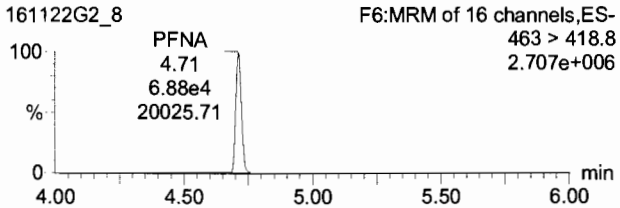
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

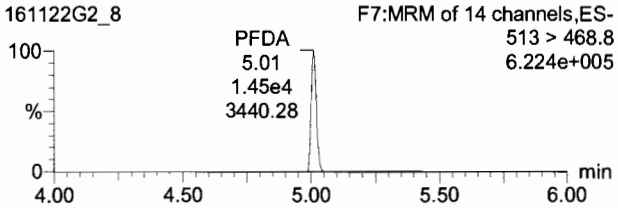
PFOS



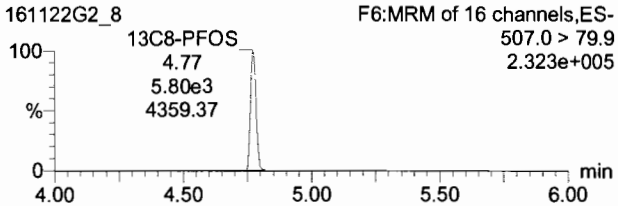
PFNA



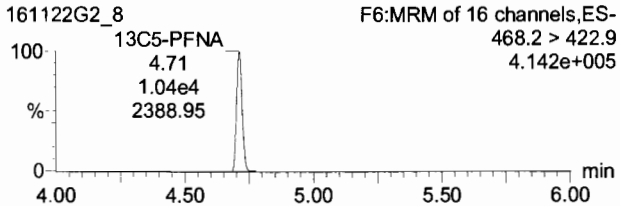
PFDA



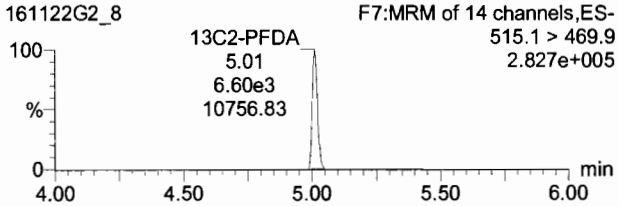
13C8-PFOS



13C5-PFNA



13C2-PFDA

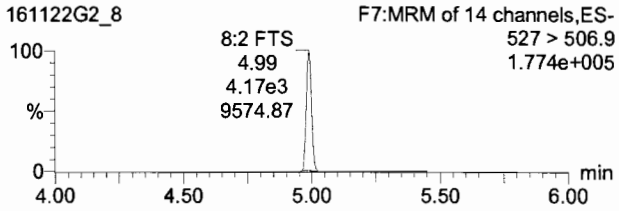


Dataset: Untitled

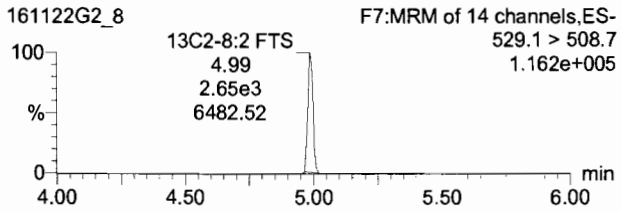
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

8:2 FTS



13C2-8:2 FTS

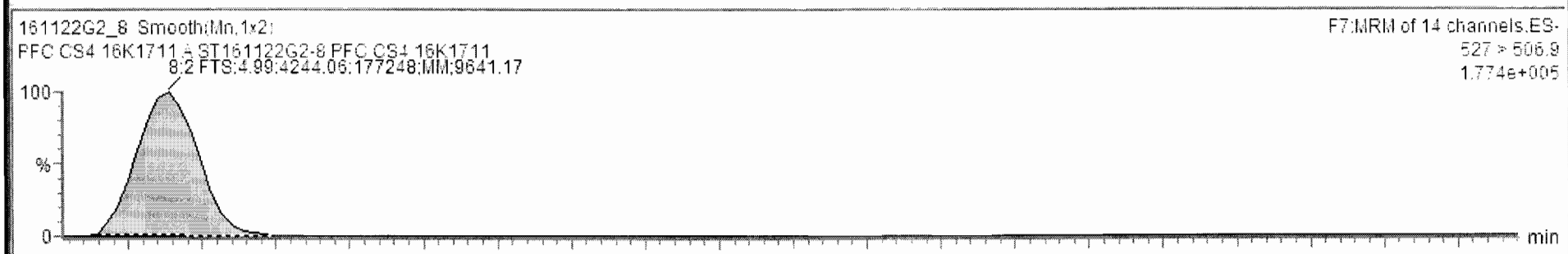


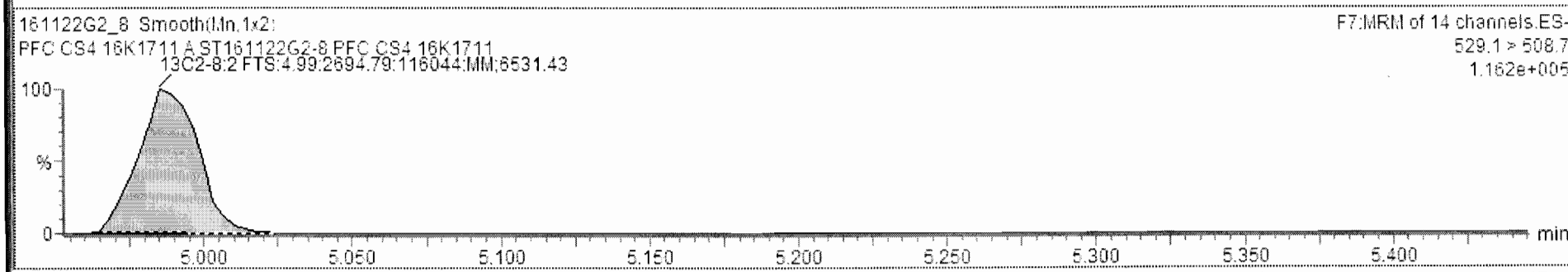
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_8 - ST161122G2-8 PFC CS4 16K1711 - PFC CS4 16K1711 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	2.69e4		1.000	3.47	3.47	52.1	YES	104.2	0.0090824
5	PFHpA	363 > 318.9	8.30e4		1.000	3.97	3.98	49.2	YES	98.3	0.1013540
6	PFHxS	398.9 > 79.6	3.53e4		1.000	4.08	4.09	47.1	YES	94.1	0.0162677
7	6:2 FTS	427.1 > 407	9.32e3		1.000	4.32	4.32	48.3	YES	96.7	0.4501120
8	PFOA	413 > 368.7	8.53e4		1.000	4.37	4.37	50.3	YES	100.7	0.0000000
9	PFHpS	449 > 98.7	8.06e3		1.000	4.37	4.45	46.8	YES	93.6	0.3525158
10	PFOS	499 >79.9	1.92e4		1.000	4.78	4.78	49.9	YES	99.9	0.2265026
11	PFNA	463 > 418.8	6.88e4		1.000	4.71	4.71	50.5	YES	101.0	0.1101360
12	PFDA	513 > 468.8	1.45e4		1.000	5.01	5.01	46.1	NO	92.3	0.0671726
13	8:2 FTS	527 > 506.9	4.24e3		1.000	4.99	4.99	40.8	YES	81.6	0.0051719
14	13C3-PFBA	216.1 > 171.8	1.90e4	1.21	1.000	1.93	1.93	12.1	NO	96.4	0.0037281
15	13C3-PFPeA	266>221.8	8.27e3	0.448	1.000	2.84	2.85	13.0	NO	103.9	0.0135113
16	13C3-PFBS	302.0 > 98.8	5.35e3	0.302	1.000	3.10	3.10	12.5	NO	99.6	0.0084692





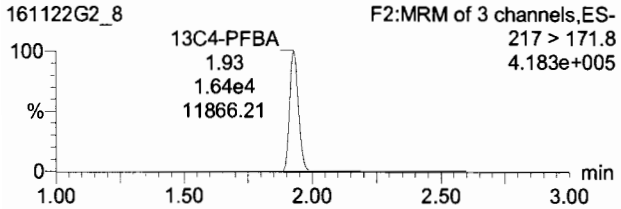
161122G2_8 CAP NUM

Dataset: Untitled

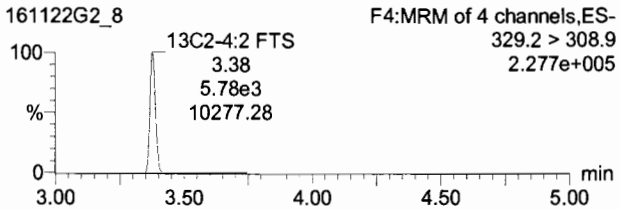
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

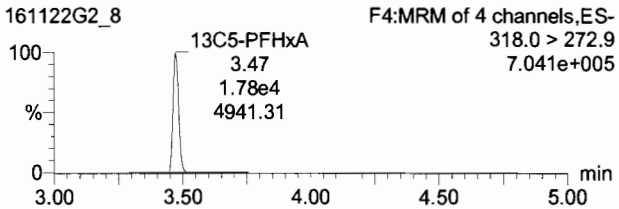
13C4-PFBA



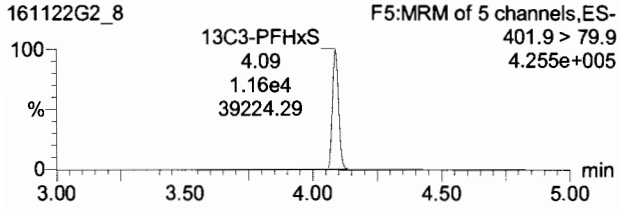
13C2-4:2 FTS



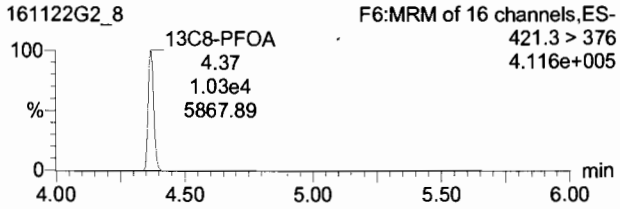
13C5-PFHxA



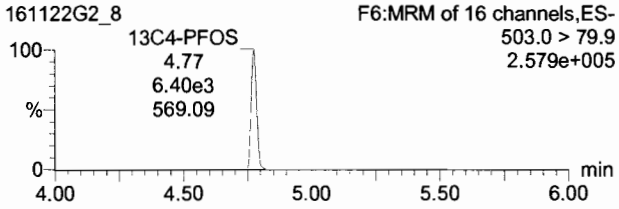
13C3-PFHxS



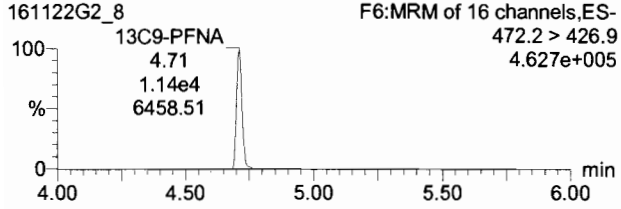
13C8-PFOA



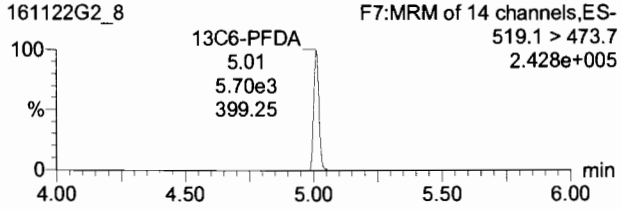
13C4-PFOS



13C9-PFNA



13C6-PFDA

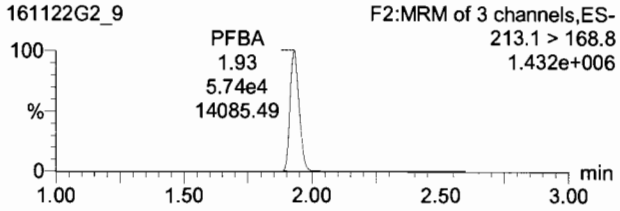


Dataset: Untitled

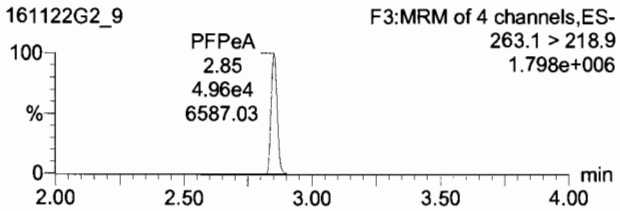
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

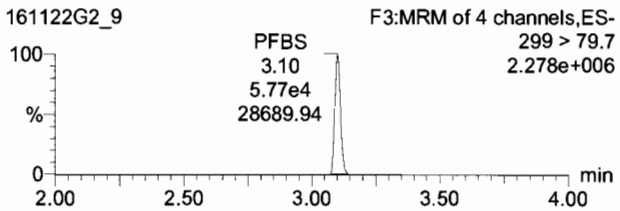
PFBA



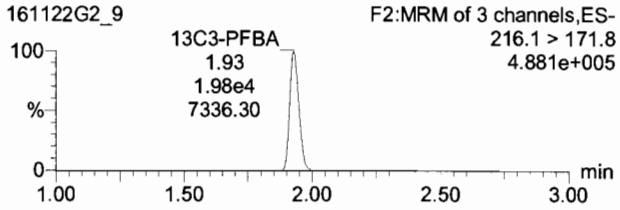
PFPeA



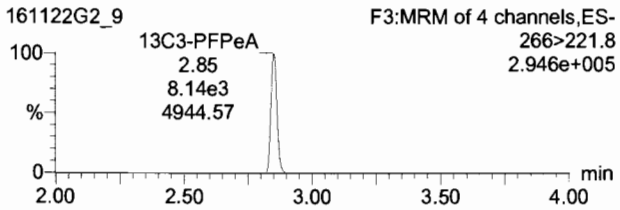
PFBS



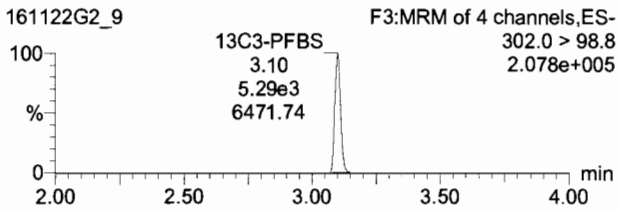
13C3-PFBA



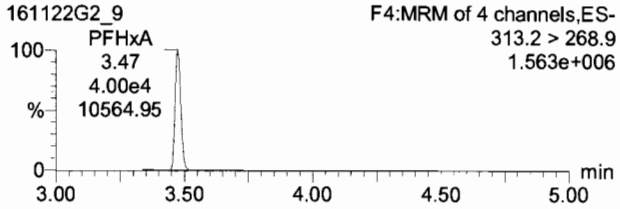
13C3-PFPeA



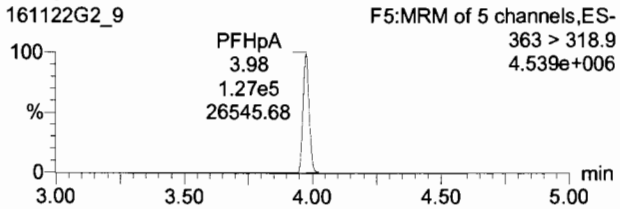
13C3-PFBS



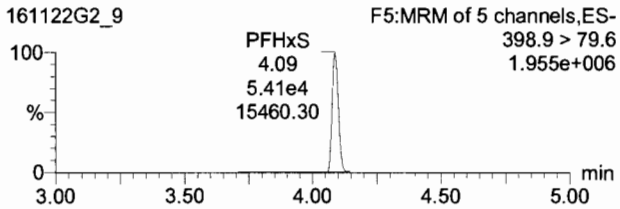
PFHxA



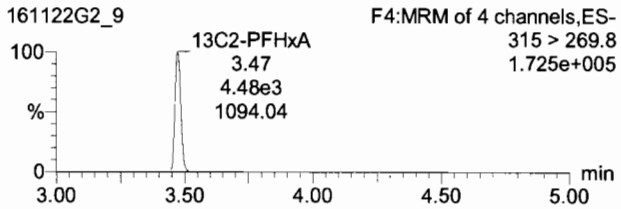
PFHpA



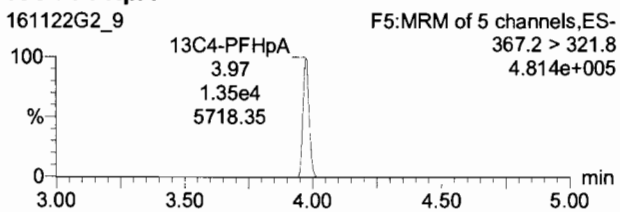
PFHxS



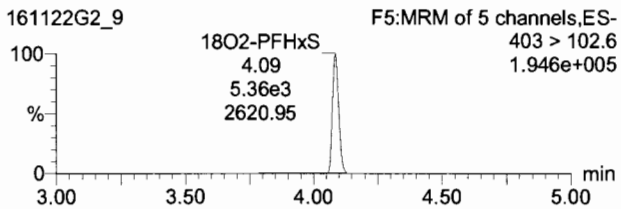
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

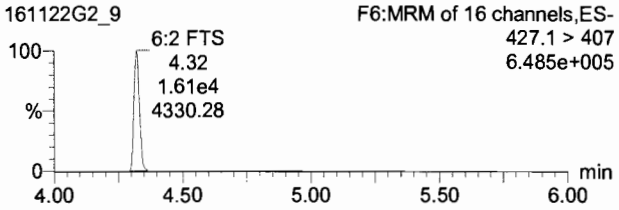


Dataset: Untitled

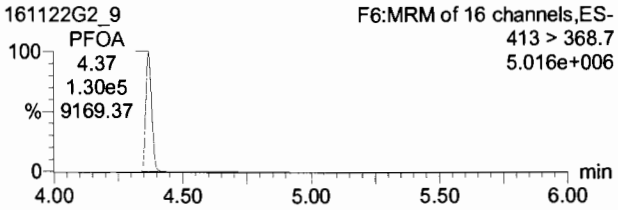
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

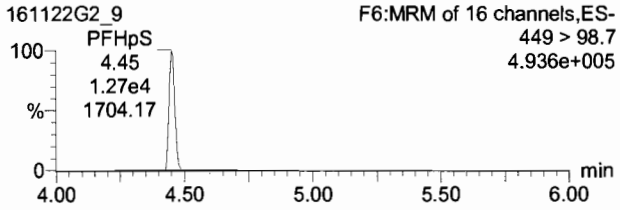
6:2 FTS



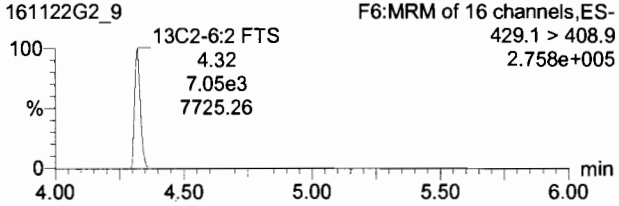
PFOA



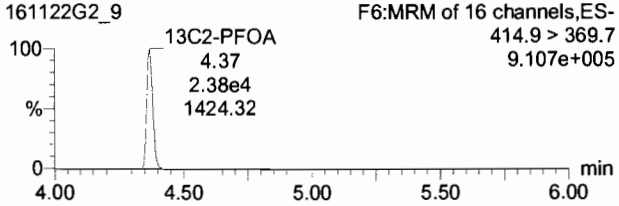
PFHpS



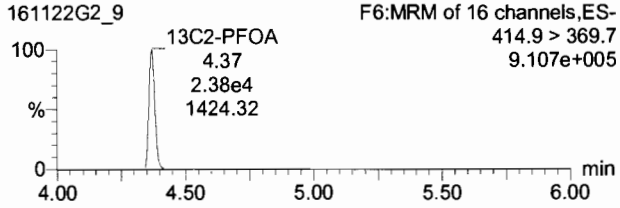
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

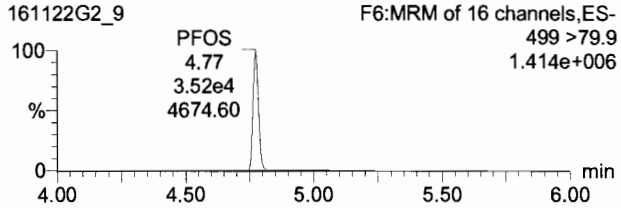


Dataset: Untitled

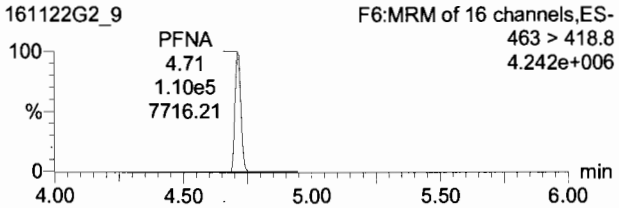
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

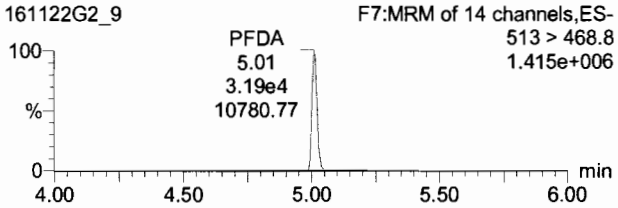
PFOS



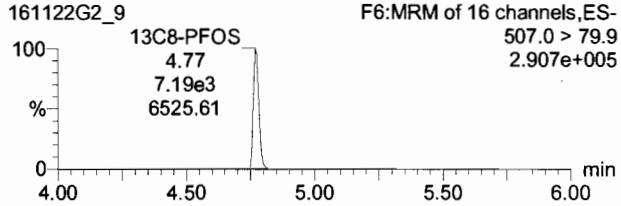
PFNA



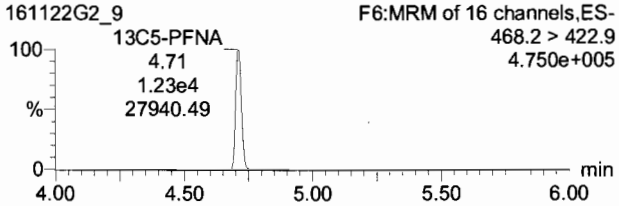
PFDA



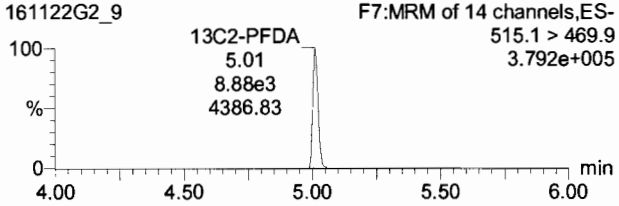
13C8-PFOS



13C5-PFNA



13C2-PFDA

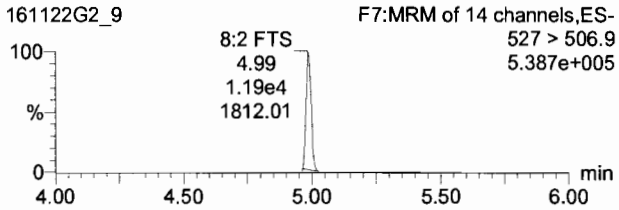


Dataset: Untitled

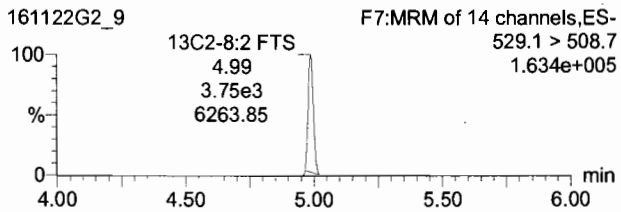
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

8:2 FTS



13C2-8:2 FTS

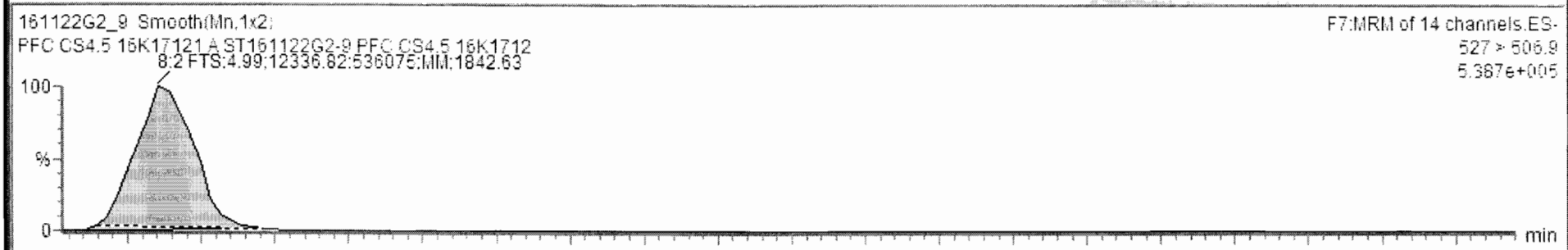


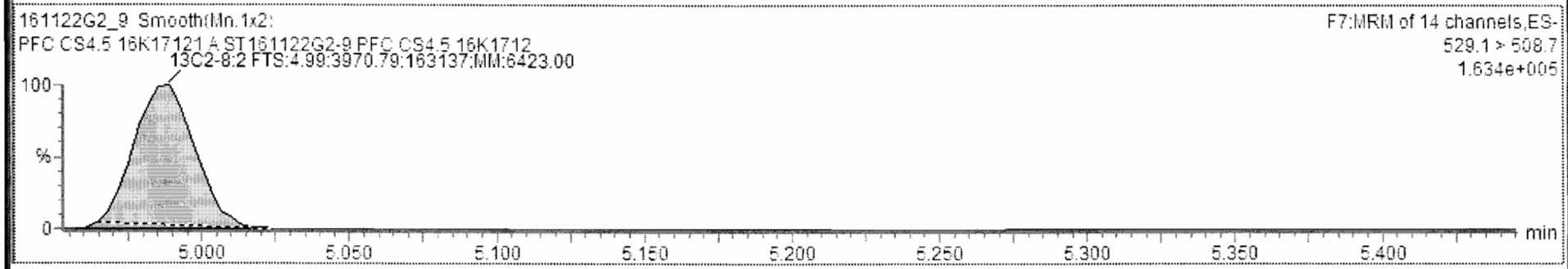
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_9 - ST161122G2-9 PFC CS4.5 16K1712 - PFC CS4.5 16K17121 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	4.00e4		1.000	3.47	3.47	74.5	YES	99.3	0.0019930
5	PFHpA	363 > 318.9	1.27e5		1.000	3.97	3.98	75.5	YES	100.7	0.0962936
6	PFHxS	398.9 > 79.6	5.41e4		1.000	4.09	4.09	73.4	YES	97.8	0.0272887
7	6:2 FTS	427.1 > 407	1.61e4		1.000	4.32	4.32	66.1	YES	88.1	0.4772740
8	PFOA	413 > 368.7	1.30e5		1.000	4.37	4.37	75.6	YES	100.8	0.0000000
9	PFHpS	449 > 98.7	1.27e4		1.000	4.37	4.45	72.8	YES	97.0	0.3559161
10	PFOS	499 >79.9	3.52e4		1.000	4.77	4.77	73.6	YES	98.2	0.2377618
11	PFNA	463 > 418.8	1.10e5		1.000	4.71	4.71	68.0	YES	90.7	0.1259394
12	PFDA	513 > 468.8	3.19e4		1.000	5.01	5.01	75.4	NO	100.5	0.0517738
13	8:2 FTS	527 > 506.9	1.23e4		1.000	4.99	4.99	84.1	YES	112.1	0.1062973
14	13C3-PFBA	216.1 > 171.8	1.98e4	1.21	1.000	1.93	1.93	12.4	NO	99.3	0.0041429
15	13C3-PFPeA	266>221.8	8.14e3	0.448	1.000	2.84	2.85	12.4	NO	99.0	0.0056902
16	13C3-PFBS	302.0 > 98.8	5.28e3	0.302	1.000	3.10	3.10	11.9	NO	95.3	0.0045397





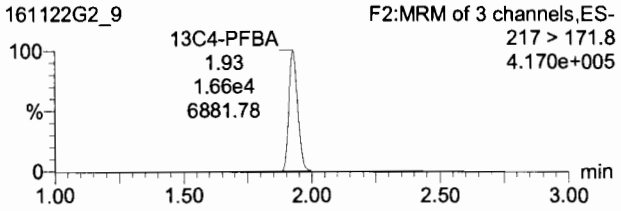
161122G2_9 CAP NUM

Dataset: Untitled

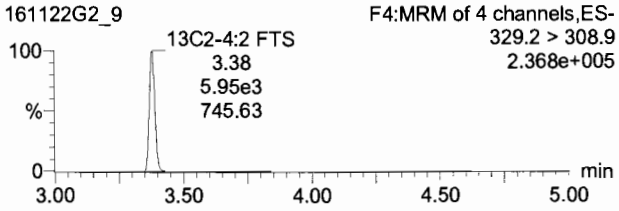
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

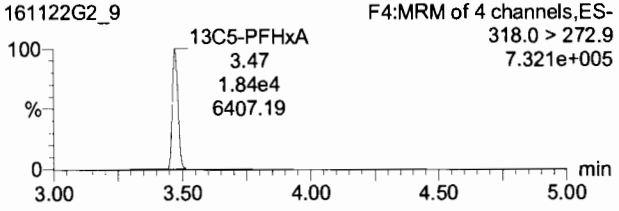
13C4-PFBA



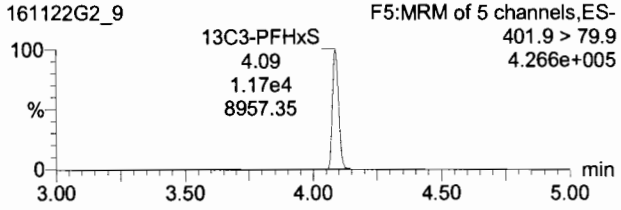
13C2-4:2 FTS



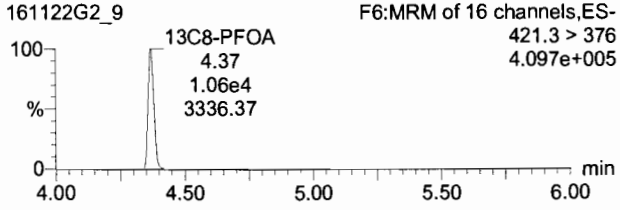
13C5-PFHxA



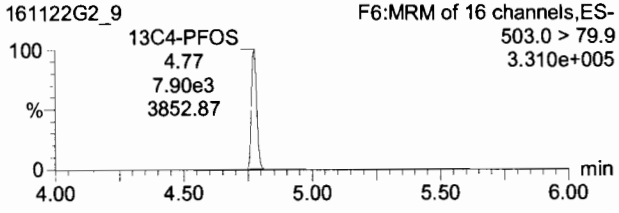
13C3-PFHxS



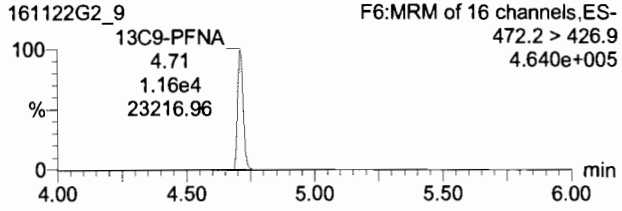
13C8-PFOA



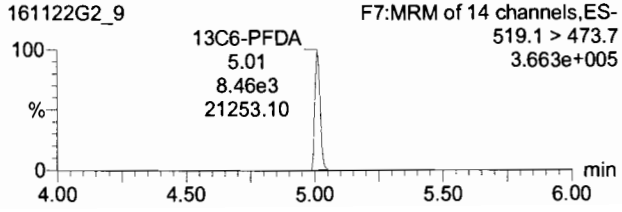
13C4-PFOS



13C9-PFNA



13C6-PFDA

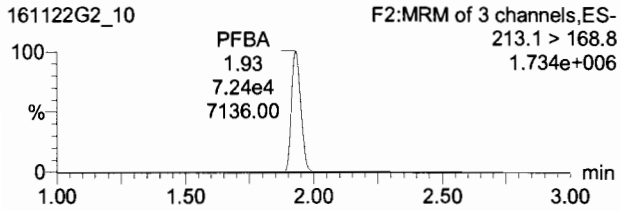


Dataset: Untitled

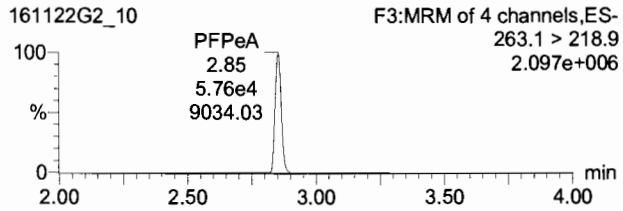
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

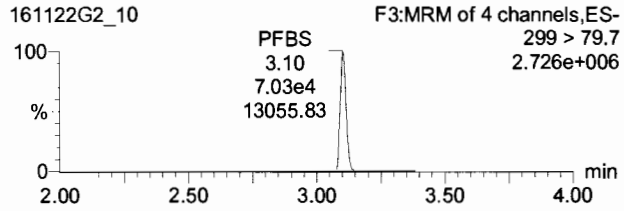
PFBA



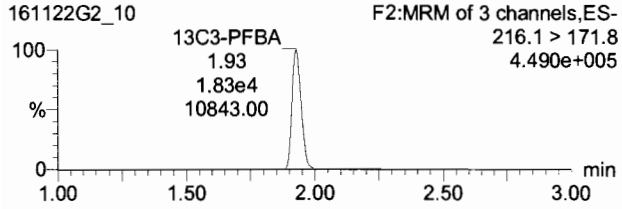
PFPeA



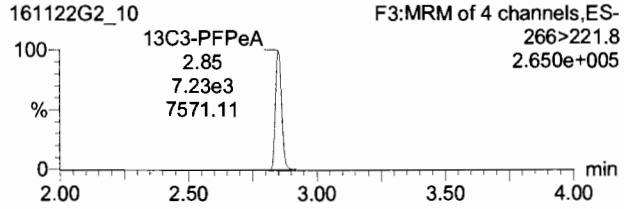
PFBS



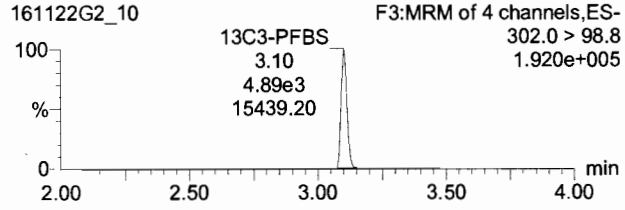
13C3-PFBA



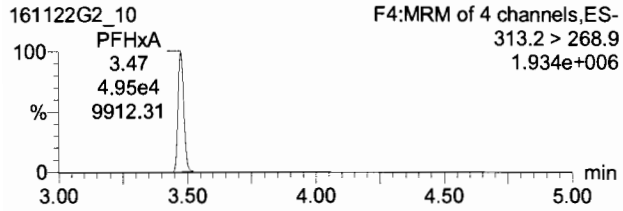
13C3-PFPeA



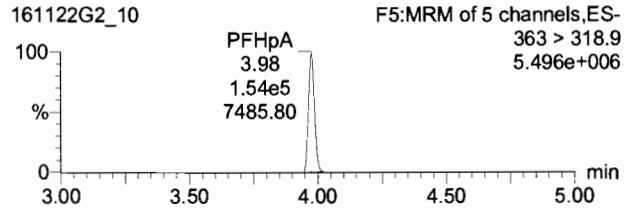
13C3-PFBS



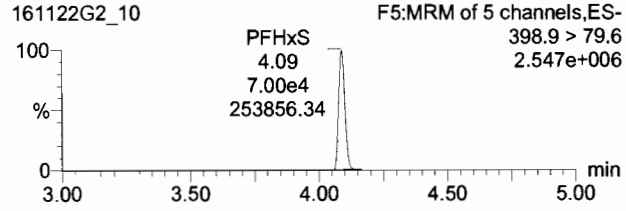
PFHxA



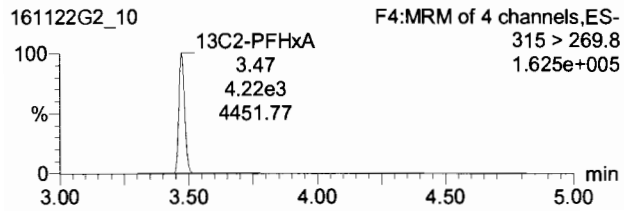
PFHpA



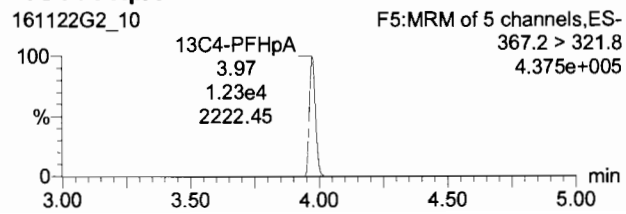
PFHxS



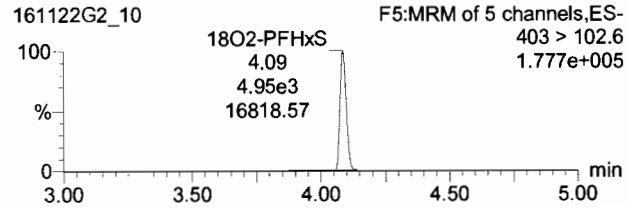
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

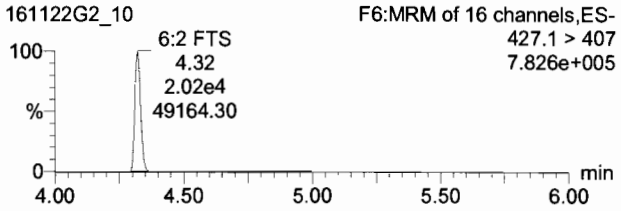


Dataset: Untitled

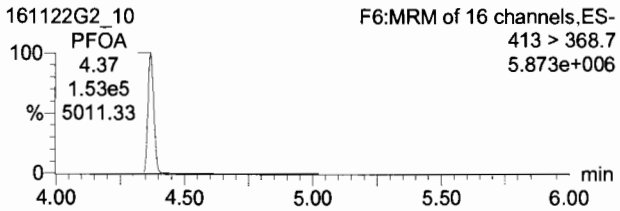
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

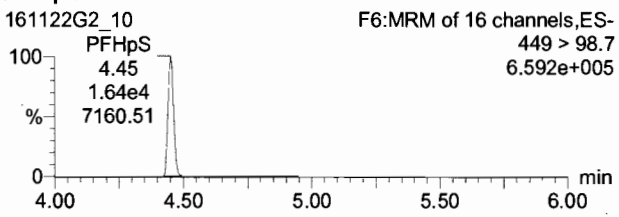
6:2 FTS



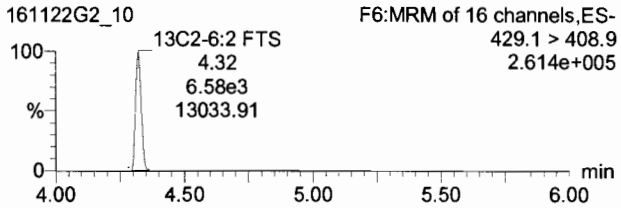
PFOA



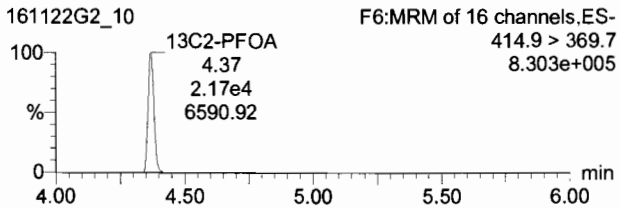
PFHpS



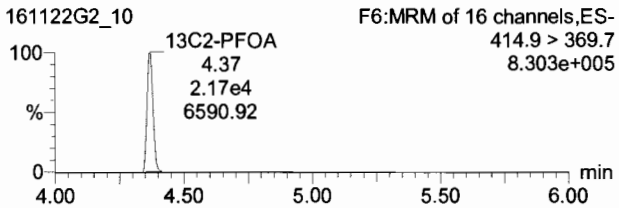
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

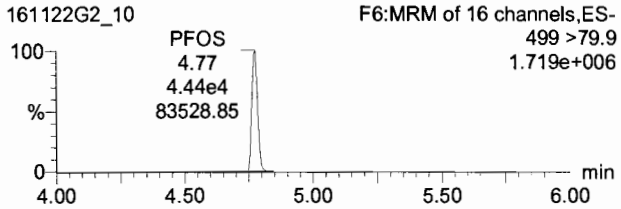


Dataset: Untitled

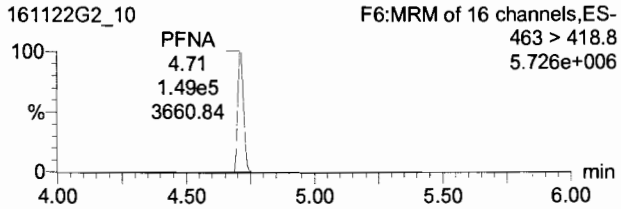
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

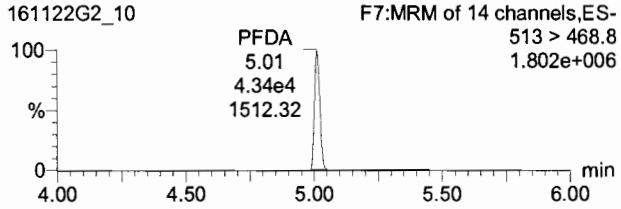
PFOS



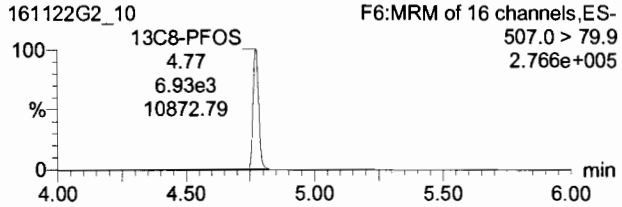
PFNA



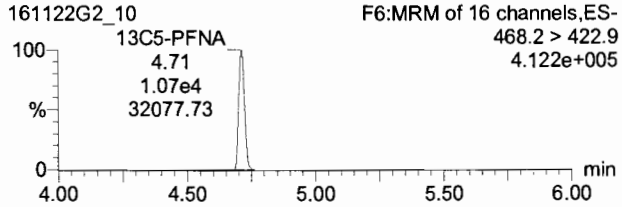
PFDA



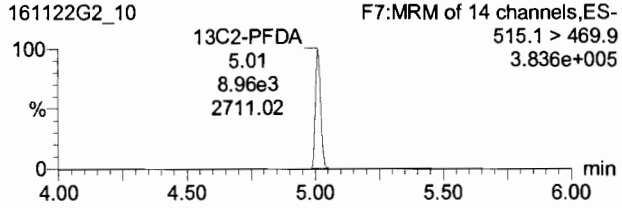
13C8-PFOS



13C5-PFNA



13C2-PFDA

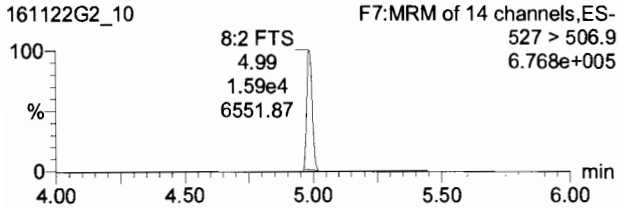


Dataset: Untitled

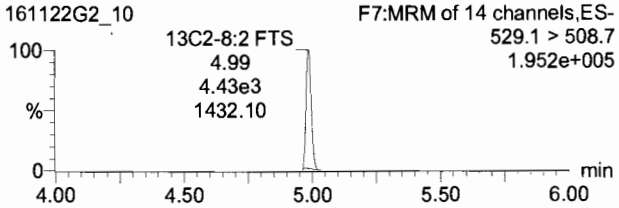
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

8:2 FTS



13C2-8:2 FTS

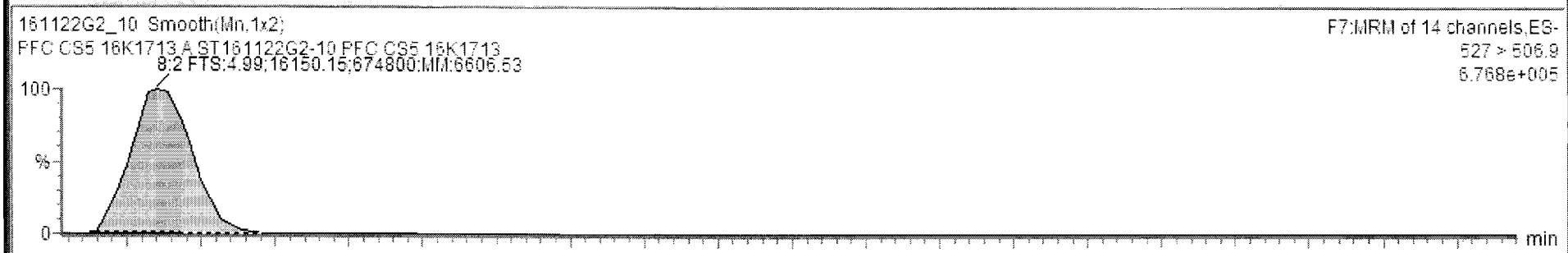


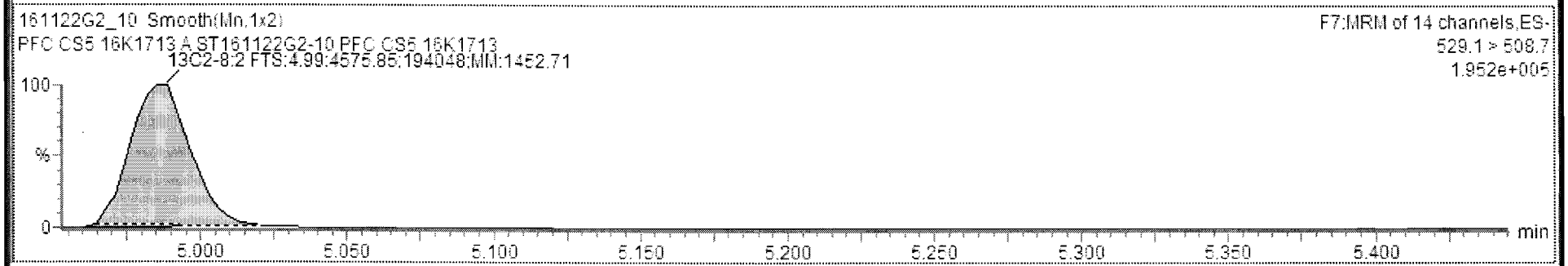
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_10 - ST161122G2-10 PFC CS5 16K1713 - PFC CS5 16K1713 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	4.95e4		1.000	3.47	3.47	98.0	YES	98.0	0.0091413
5	PFHpA	363 > 318.9	1.54e5		1.000	3.97	3.98	100	YES	100.4	0.1228809
6	PFHxS	398.9 > 79.6	7.00e4		1.000	4.09	4.09	103	YES	102.7	0.0164978
7	6:2 FTS	427.1 > 407	2.02e4		1.000	4.32	4.32	95.3	YES	95.3	0.4475018
8	PFOA	413 > 368.7	1.53e5		1.000	4.37	4.37	97.9	YES	97.9	0.0000000
9	PFHpS	449 > 98.7	1.64e4		1.000	4.37	4.45	103	YES	103.1	0.2855073
10	PFOS	499 >79.9	4.44e4		1.000	4.78	4.77	96.1	YES	96.1	0.2015386
11	PFNA	463 > 418.8	1.49e5		1.000	4.71	4.71	106	YES	106.3	0.1762378
12	PFDA	513 > 468.8	4.34e4		1.000	5.01	5.01	101	NO	101.5	0.1963398
13	8:2 FTS	527 > 506.9	1.62e4		1.000	4.99	4.99	96.8	YES	96.8	0.0280690
14	13C3-PFBA	216.1 > 171.8	1.83e4	1.21	1.000	1.92	1.93	11.6	NO	92.9	0.0026509
15	13C3-PFPeA	266>221.8	7.23e3	0.448	1.000	2.84	2.85	11.6	NO	92.5	0.0036027
16	13C3-PFBS	302.0 > 98.8	4.89e3	0.302	1.000	3.10	3.10	11.6	NO	92.7	0.0018920





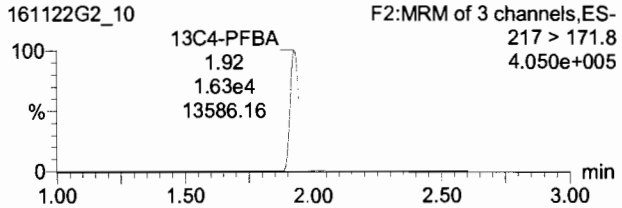
161122G2_10 CAP NUM

Dataset: Untitled

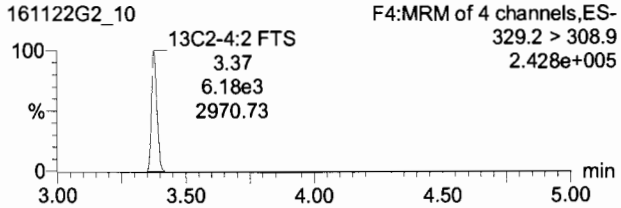
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

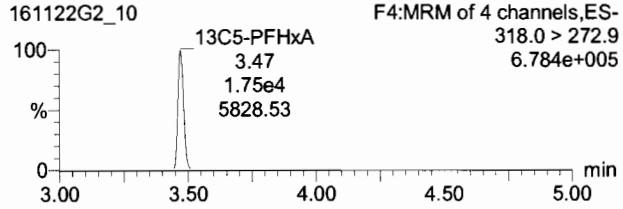
13C4-PFBA



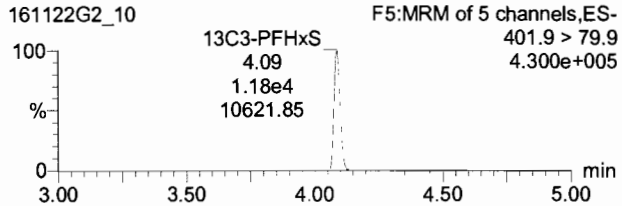
13C2-4:2 FTS



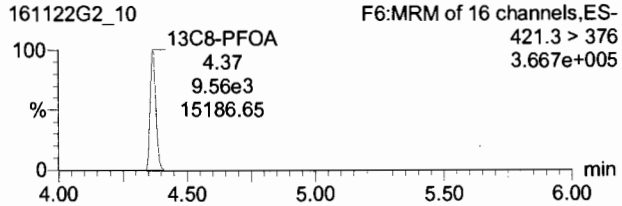
13C5-PFHxA



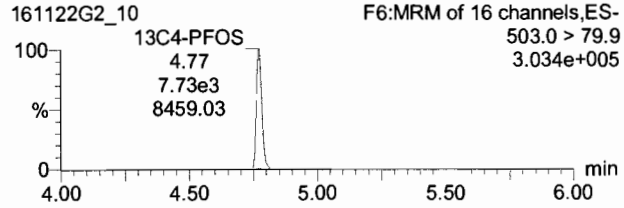
13C3-PFHxS



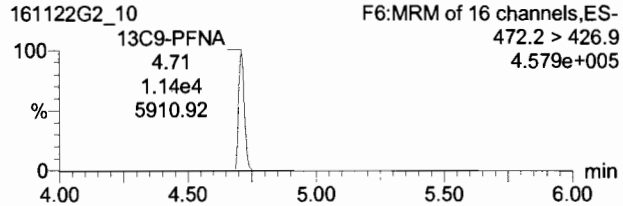
13C8-PFOA



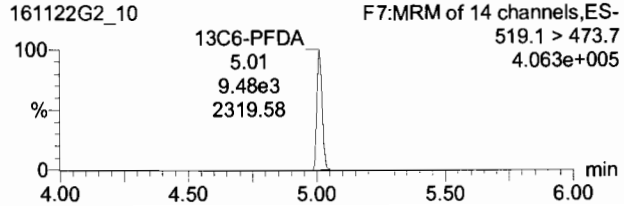
13C4-PFOS



13C9-PFNA



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-12.qld

Last Altered: Tuesday, November 22, 2016 15:30:24 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:30:54 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1	PFBA	213.1 > 168.8	1.99e4	1.93e4		1.000	1.94	26.3	105.2
2	2	PFPeA	263.1 > 218.9	1.36e4	8.81e3		1.000	2.85	19.4	77.4
3	3	PFBS	299 > 79.7	1.87e4	6.07e3		1.000	3.10	21.5	86.2
4	4	PFHxA	313.2 > 268.9	1.51e4	4.56e3		1.000	3.47	27.6	110.5
5	5	PFHpA	363 > 318.9	4.67e4	1.40e4		1.000	3.98	26.9	107.5
6	6	PFHxS	398.9 > 79.6	1.55e4	5.82e3		1.000	4.09	19.4	95.8 ~~77.7~~ A
7	7	6:2 FTS	427.1 > 407	4.23e3	5.80e3		1.000	4.32	20.8	83.4
8	8	PFOA	413 > 368.7	3.78e4	2.49e4		1.000	4.37	21.0	106.2 ~~83.9~~ A
9	9	PFHpS	449 > 98.7	4.68e3	2.49e4		1.000	4.45	25.7	103.0
10	10	PFOS	499 >79.9	9.75e3	7.54e3		1.000	4.77	19.6	99.4 ~~78.3~~ A
11	11	PFNA	463 > 418.8	4.01e4	1.20e4		1.000	4.71	25.5	102.1
12	12	PFDA	513 > 468.8	1.01e4	9.03e3		1.000	5.01	23.6	94.4
13	13	8:2 FTS	527 > 506.9	2.65e3	2.91e3		1.000	4.99	23.2	92.8
14	14	13C3-PFBA	216.1 > 171.8	1.93e4	1.41e4	1.205	1.000	1.94	14.2	113.8
15	15	13C3-PFPeA	266>221.8	8.81e3	1.61e4	0.448	1.000	2.85	15.3	122.1
16	16	13C3-PFBS	302.0 > 98.8	6.07e3	1.61e4	0.302	1.000	3.10	15.6	124.7
17	17	13C2-PFHxA	315 > 269.8	4.56e3	1.61e4	0.620	1.000	3.47	5.71	114.1
18	18	13C4-PFHpA	367.2 > 321.8	1.40e4	1.10e4	1.139	1.000	3.97	14.1	112.6
19	19	18O2-PFHxS	403 > 102.6	5.82e3	1.10e4	0.449	1.000	4.09	14.8	118.2
20	20	13C2-6:2 FTS	429.1 > 408.9	5.80e3	4.58e3	1.073	1.000	4.32	14.8	118.1
21	21	13C2-PFOA	414.9 > 369.7	2.49e4	8.18e3	2.262	1.000	4.37	16.8	134.6
22	22	13C8-PFOS	507.0 > 79.9	7.54e3	6.29e3	0.944	1.000	4.77	15.9	127.2
23	23	13C5-PFNA	468.2 > 422.9	1.20e4	9.84e3	1.082	1.000	4.71	14.1	113.0
24	24	13C2-PFDA	515.1 > 469.9	9.03e3	6.86e3	1.019	1.000	5.01	16.1	129.0
25	25	13C2-8:2 FTS	529.1 > 508.7	2.91e3	4.58e3	0.569	1.000	4.99	14.0	111.7
26	26	13C4-PFBA	217 > 171.8	1.41e4	1.41e4	1.000	1.000	1.94	12.5	100.0
27	27	13C2-4:2 FTS	329.2 > 308.9	4.58e3	4.58e3	1.000	1.000	3.38	12.5	100.0
28	28	13C5-PFHxA	318.0 > 272.9	1.61e4	1.61e4	1.000	1.000	3.47	12.5	100.0
29	29	13C3-PFHxS	401.9 > 79.9	1.10e4	1.10e4	1.000	1.000	4.09	12.5	100.0
30	30	13C8-PFOA	421.3 > 376	8.18e3	8.18e3	1.000	1.000	4.37	12.5	100.0
31	31	13C4-PFOS	503.0 > 79.9	6.29e3	6.29e3	1.000	1.000	4.77	12.5	100.0

75-125

AC
11/22/16
PW
11/23/16

A Percent recovery based on linear isomer only.

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-12.qld

Last Altered: Tuesday, November 22, 2016 15:30:24 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:30:54 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

	#-Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 13C9-PFNA	472.2 > 426.9	9.84e3	9.84e3	1.000	1.000	4.71	12.5	100.0
33	33 13C6-PFDA	519.1 > 473.7	6.86e3	6.86e3	1.000	1.000	5.01	12.5	100.0

Vista Analytical Laboratory Q1

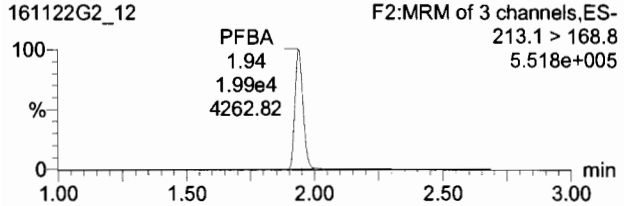
Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-1.qld

Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

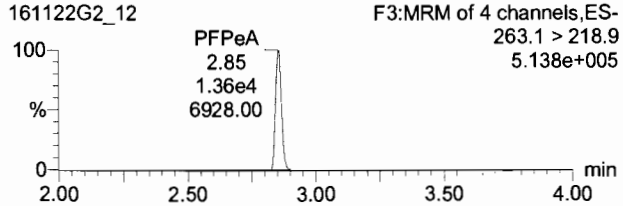
Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 14:59:27

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

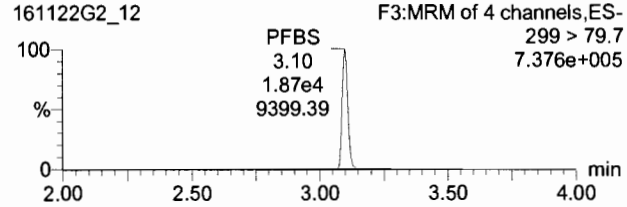
PFBA



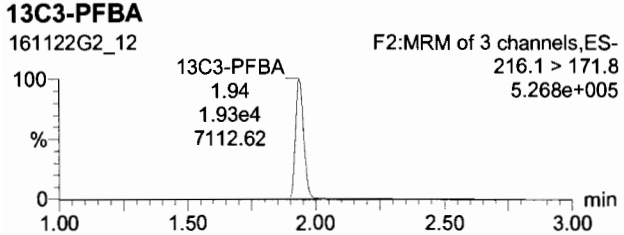
PFPeA



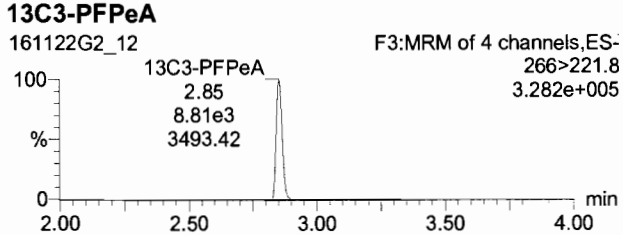
PFBS



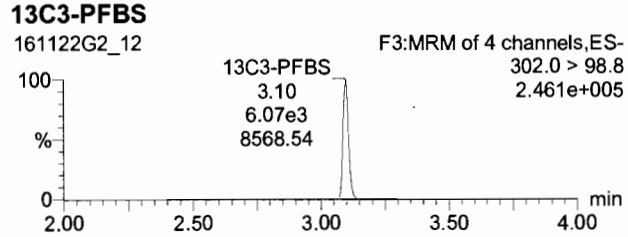
13C3-PFBA



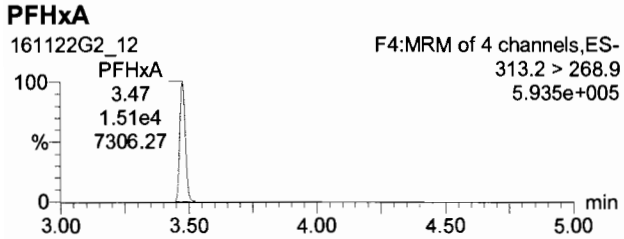
13C3-PFPeA



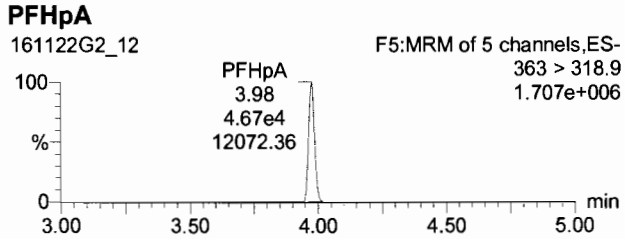
13C3-PFBS



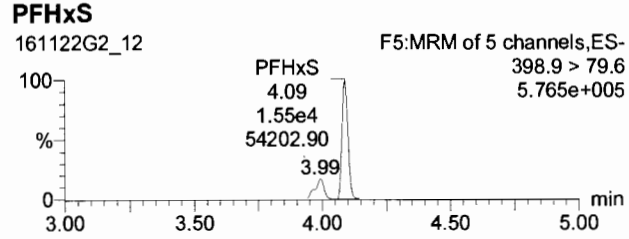
PFHxA



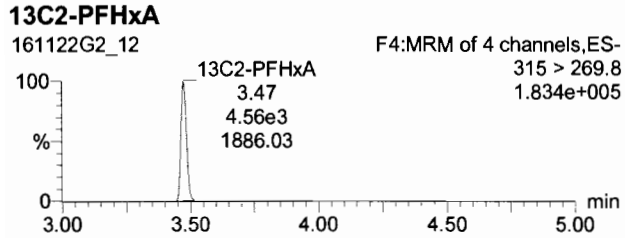
PFHpA



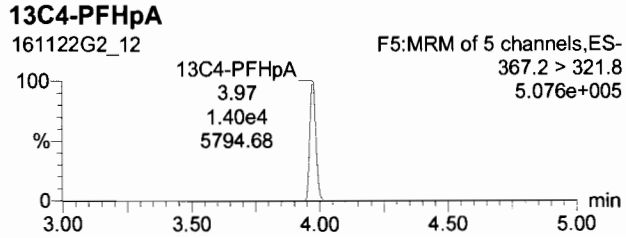
PFHxS



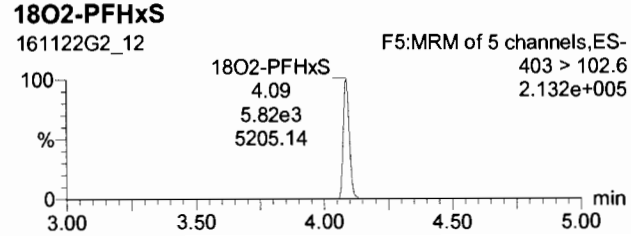
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

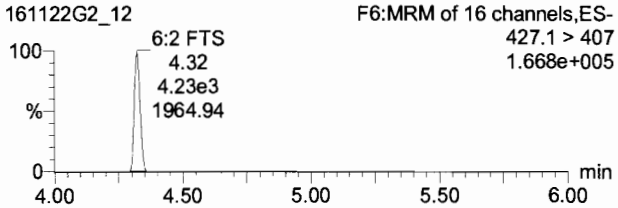


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-1.qld

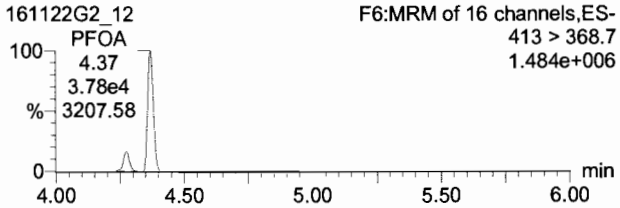
Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

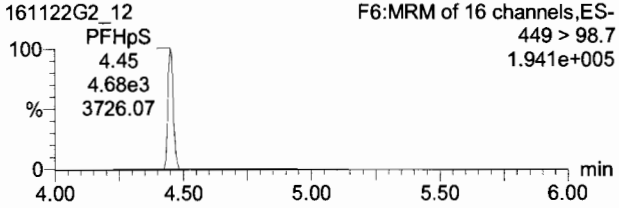
6:2 FTS



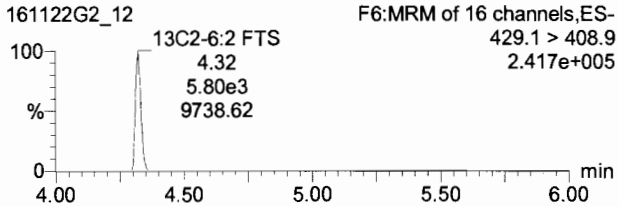
PFOA



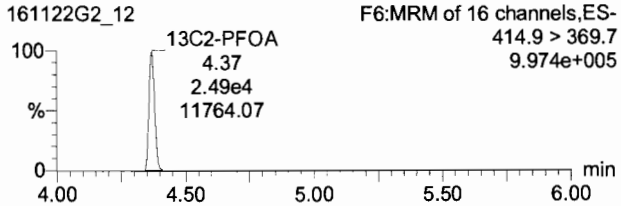
PFHpS



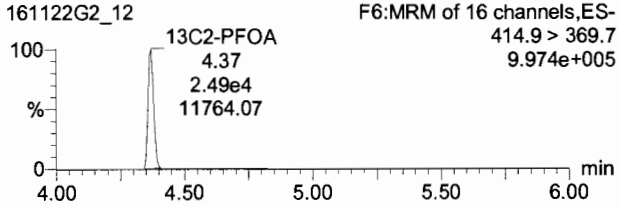
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

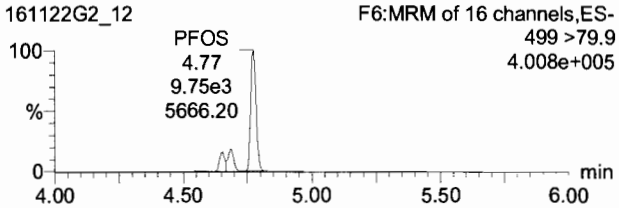


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-1.qld

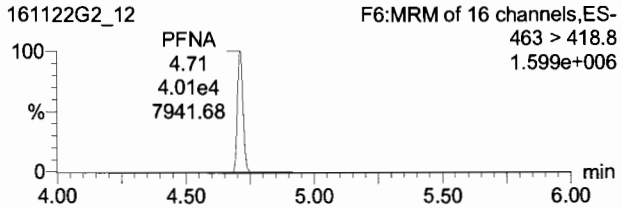
Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

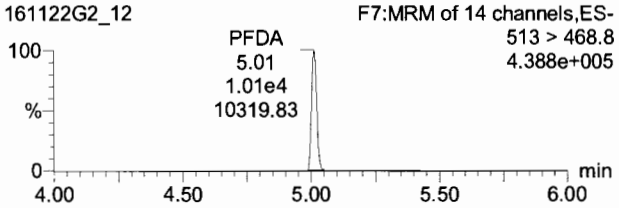
PFOS



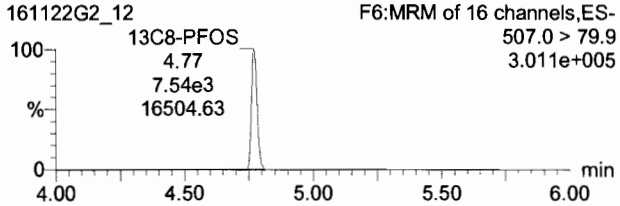
PFNA



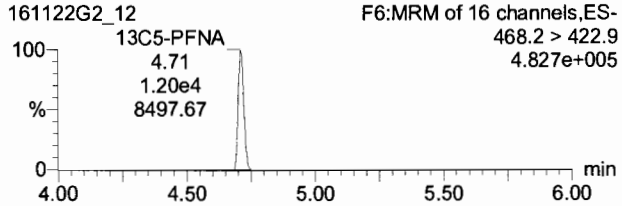
PFDA



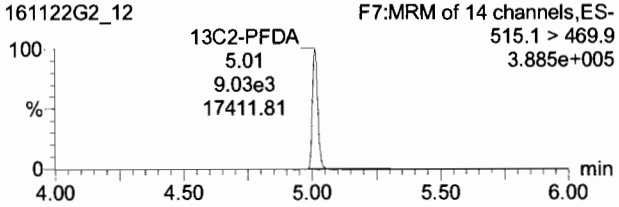
13C8-PFOS



13C5-PFNA



13C2-PFDA

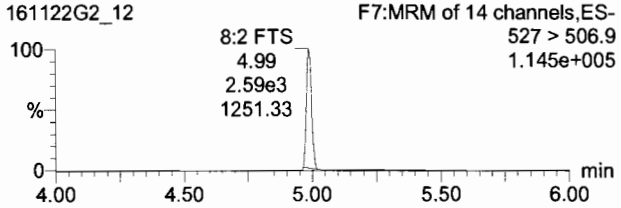


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-1.qld

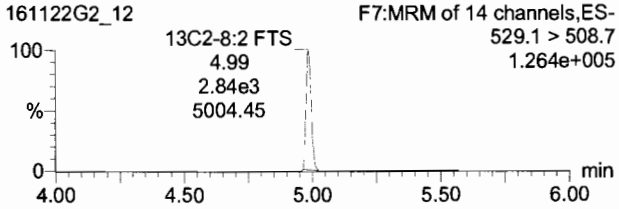
Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

8:2 FTS



13C2-8:2 FTS

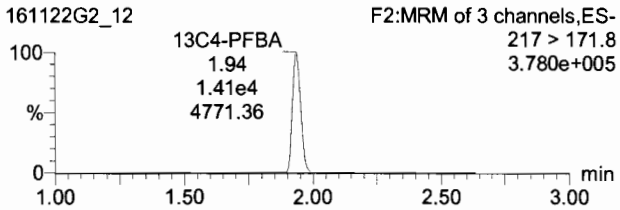


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-1.qld

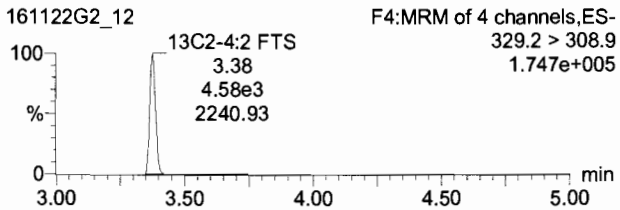
Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

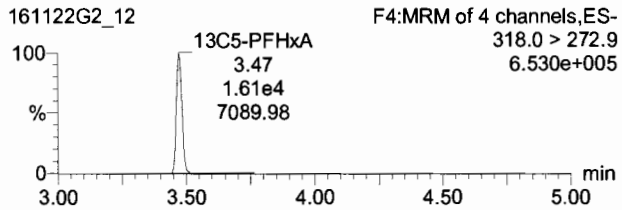
13C4-PFBA



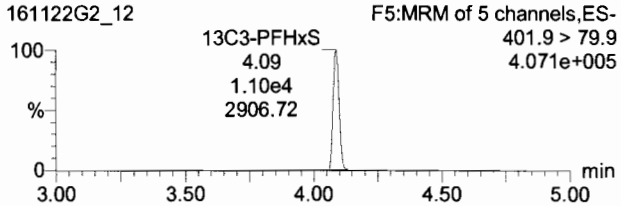
13C2-4:2 FTS



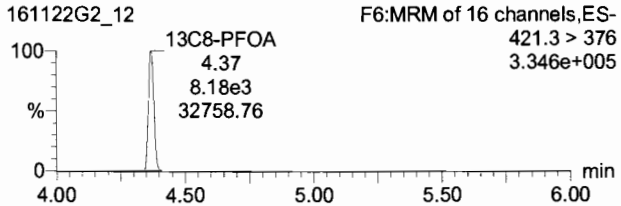
13C5-PFHxA



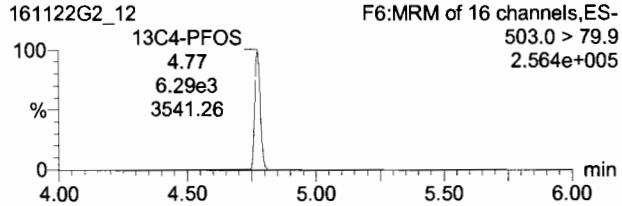
13C3-PFHxS



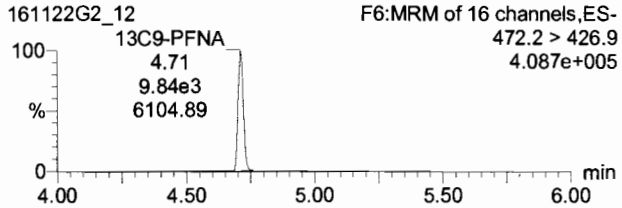
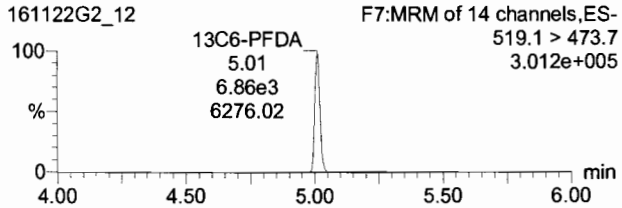
13C8-PFOA



13C4-PFOS



13C9-PFNA



13C6-PFDA