November 21, 2016

Vista Work Order No. 1601360

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

Dear Mr. Olness,

Enclosed are the additional results for the sample set received at Vista Analytical Laboratory on October 26, 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 Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

Vista Work Order No. 1601360
Case Narrative

Sample Condition on Receipt:

Eleven 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 requested, all "EB" and "FB" were extracted and placed on hold except samples "EB12_161025".

Per client's request on 11/14/2016, samples "EB-M05-02_161025", "EB-M05-03_161025", "EB-M08-07_161025", "EB-M10-01_161025", "FB-M05-02_161025", "FB-M05-03_161025", and "FB-M10-01_161025 were removed from hold and the results are included within this report.

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 for all QC and field samples were within the QAPP acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1601360-01	EB12_161025		25-Oct-16 14:30	26-Oct-16 09:05	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601360-02	EB-M05-02_161025	Extract and hold	25-Oct-16 11:25	26-Oct-16 09:05	HDPE Bottle, 125 mL
		Extract and hold			HDPE Bottle, 125 mL
1601360-03	EB-M05-03_161025	Extract and hold	25-Oct-16 13:05	26-Oct-16 09:05	HDPE Bottle, 125 mL
		Extract and hold			HDPE Bottle, 125 mL
1601360-04	EB-M08-07_161025	Extract and hold	25-Oct-16 10:30	26-Oct-16 09:05	HDPE Bottle, 125 mL
		Extract and hold			HDPE Bottle, 125 mL
1601360-05	EB-M10-01_161025	Extract and hold	25-Oct-16 14:00	26-Oct-16 09:05	HDPE Bottle, 125 mL
		Extract and hold			HDPE Bottle, 125 mL
1601360-06	FB-M05-02_161025	Extract and hold	25-Oct-16 11:20	26-Oct-16 09:05	HDPE Bottle, 125 mL
		Extract and hold			HDPE Bottle, 125 mL
1601360-07	FB-M05-03_161025	Extract and hold	25-Oct-16 13:00	26-Oct-16 09:05	HDPE Bottle, 125 mL
		Extract and hold			HDPE Bottle, 125 mL
1601360-08	FB-M10-01_161025		25-Oct-16 13:55	26-Oct-16 09:05	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601360-09	M05-02_161025		25-Oct-16 11:15	26-Oct-16 09:05	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601360-10	M05-03_161025		25-Oct-16 12:56	26-Oct-16 09:05	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1601360-11	M10-01_161025		25-Oct-16 13:50	26-Oct-16 09:05	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank — Modified EPA Method 537

Matrix:	Aqueous	QC Batch:	B6K0029	Lab Sample:	B6K0029-BLK1
Sample Size:	0.125 L	Date Extracted:	04-Nov-2016 9:10	Date Analyzed:	09-Nov-16 18:35 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	87.1	60 - 150	
IS	13C2-PFOA	76.9	60 - 150	
IS	13C8-PFOS	83.5	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:	B6K0029	Lab Sample:	B6K0029-BS1
Sample Size:	0.125 L	Date Extracted:	04-Nov-2016 9:10	Date Analyzed:	09-Nov-16 17:46 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
PFBS	89.4	80.0	112	60 - 130	IS	13C3-PFBS	98.0	60 - 150
PFOA	104	80.0	130	70 - 130	IS	13C2-PFOA	83.3	60 - 150
PFOS	83.2	80.0	104	70 - 130	IS	13C8-PFOS	95.1	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: EB-M05-02_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-02	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.130 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 11:25			Date Analyzed:	18-Nov-16 16:00 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.72	3.85	7.70	
PFOA	ND	0.626	1.92	7.70	
PFOS	ND	0.777	0.865	7.70	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	96.8	60 - 150	
IS	13C2-PFOA	85.7	60 - 150	
IS	13C8-PFOS	91.6	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-M05-03_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-03	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.128 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 13:05			Date Analyzed:	16-Nov-16 19:41	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.75	3.91	7.83	
PFOA	ND	0.637	1.95	7.83	
PFOS	ND	0.790	0.879	7.83	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	89.6	60 - 150	
IS	13C2-PFOA	83.4	60 - 150	
IS	13C8-PFOS	81.7	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-M08-07_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-04	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.127 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 10:30			Date Analyzed:	16-Nov-16 20:31	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.76	3.94	7.85	
PFOA	ND	0.639	1.97	7.85	
PFOS	ND	0.792	0.886	7.85	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	89.4	60 - 150	
IS	13C2-PFOA	90.2	60 - 150	
IS	13C8-PFOS	94.3	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: EB-M10-01_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-05	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.127 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 14:00			Date Analyzed:	16-Nov-16 20:44	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.76	3.94	7.85	
PFOA	ND	0.639	1.97	7.85	
PFOS	ND	0.792	0.886	7.85	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	111	60 - 150	
IS	13C2-PFOA	81.4	60 - 150	
IS	13C8-PFOS	99.6	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-M05-02_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-06	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.125 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 11:20			Date Analyzed:	16-Nov-16 20:56 Column: BEH C18		
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.79	4.00	7.98	
PFOA	ND	0.649	2.00	7.98	
PFOS	ND	0.805	0.900	7.98	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	87.6	60 - 150	
IS	13C2-PFOA	89.7	60 - 150	
IS	13C8-PFOS	90.0	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-M05-03_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-07	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.129 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 13:00			Date Analyzed:	16-Nov-16 21:09	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.74	3.88	7.76	
PFOA	ND	0.632	1.94	7.76	
PFOS	ND	0.783	0.872	7.76	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	83.3	60 - 150	
IS	13C2-PFOA	91.7	60 - 150	
IS	13C8-PFOS	96.1	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-M10-01_161025 — Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC Foster Wheeler	Matrix:	QC Water	Lab Sample:	1601360-08	Date Received:	26-Oct-2016 9:05
Project:	Alameda Basewide / 5023146096	Sample Size:	0.125 L	QC Batch:	B6K0029	Date Extracted:	04-Nov-2016 9:10
Date Collected:	25-Oct-2016 13:55			Date Analyzed:	16-Nov-16 21:22	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.79	4.00	7.99	
PFOA	ND	0.650	2.00	7.99	
PFOS	ND	0.806	0.900	7.99	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	91.1	60 - 150	
IS	13C2-PFOA	102	60 - 150	
IS	13C8-PFOS	116	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.

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.**
*****	**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

1601360 0.9°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: 10/25/2016
COC #: COC161025
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	EB12_161025	10/25/16 14:30	WQ	EB	N	X						
2	EB-M05-02_161025	10/25/16 11:25	WQ	EB	N	X						X
3	EB-M05-03_161025	10/25/16 13:05	WQ	EB	N	X						X
4	EB-M08-07_161025	10/25/16 10:30	WQ	EB	N	X						X
5	EB-M10-01_161025	10/25/16 14:00	WQ	EB	N	X						X
6	FB-M05-02_161025	10/25/16 11:20	WQ	FB	N	X						X
7	FB-M05-03_161025	10/25/16 13:00	WQ	FB	N	X						X
8	FB-M10-01_161025	10/25/16 13:55	WQ	FB	N	X						
9	M05-02_161025	10/25/16 11:15	WG	N	N	X						
10	M05-03_161025	10/25/16 12:56	WG	N	N	X						
11	M10-01_161025	10/25/16 13:50	WG	N	N	X						
12												

Sampler's Signature:		Date: 10/25/16	Time: 14:45
Relinquished By/Affiliation:	Uej Rusi	Date: 10/25/16	Time: 16:00
Received By:	Fed Ex	Date:	Time:
Relinquished By/Affiliation:	Fed Ex	Date: 10/26/16	Time: 0905
Received By:	[illegible]	Date: 10/26/16	Time: 0924
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-... Samples – extract Only

NUMBER OF COOLERS SENT:

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 1601360 **TAT** 14

Samples Arrival:	**Date/Time** 10/26/16 0905	**Initials:** BLB	**Location:** WR-2 **Shelf/Rack:** NA
Logged In:	**Date/Time** 10/27/16 0759	**Initials:** BLB	**Location:** WR-2 **Shelf/Rack:** F6

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

Temp °C: 1.2	(uncorrected)	**Time:** 0923	**Thermometer ID:** IR-1
Temp °C: 0.9	(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 # 7844 5805 ~~4~~ 0470 BLB	✓		
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: 1601360

Prep Expiration: 11/08/2016

Client: AMEC Foster Wheeler

Workorder Due: 09-Nov-16 00:00

TAT: 14

Method: **537 PFAS**

Matrix: **Aqueous**

Prep Batch: B6K0029

Prep Data Entered: 11/5/16 JS

Date and Initials

Version: Version1-PFOA, PFOS, PFBS only

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1601360-01 "A"	☑	EB12_161025 *	26-Oct-16 09:05	WR-2 F-6	
* 1601360-02 "A"	☑	EB-M05-02_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
* 1601360-03 "A"	☑	EB-M05-03_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
* 1601360-04 "A"	☑	EB-M08-07_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
* 1601360-05 "A"	☑	EB-M10-01_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
* 1601360-06 "A"	☑	FB-M05-02_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
* 1601360-07 "A"	☑	FB-M05-03_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
* 1601360-08 "A"	☑	FB-M10-01_161025	26-Oct-16 09:05	WR-2 F-6	**Extract and hold**
1601360-09 "A"	☑	M05-02_161025 *	26-Oct-16 09:05	WR-2 F-6	
1601360-10 "A"	☑	M05-03_161025 *	26-Oct-16 09:05	WR-2 F-6	
1601360-11 "A"	☑	M10-01_161025 *	26-Oct-16 09:05	WR-2 F-6	

* Removed from hold on 11/14/2016 *
KL

WO Comments: **DoD**

Only if client requests

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: Tiny Handz

Sample Reconciled By: INJ 11/4/16

Page 1 of 1

Percent Solids

Vista Analytical Laboratory

Project: BGK0029 **Balance ID:** HRM5-9

Sample ID	Chemist: NA Date: ↓ Time: ↓ Boat Wt.	Sample + Boat Wt.	Chemist: NA Date: ↓ Time: ↓ Residue + Boat Wt.	Chemist/Date INJ 11/4/16 pH before	pH* after	Cl⁻
1601360-01				5	2	0
1601360-02				5	2	0
1601360-03				5	2	0
1601360-04				5	2	0
1601360-05				5	2	0
1601360-06				5	2	0
1601360-07		INJ 11/4/16		5	2	0
1601360-08				5	2	0
1601360-09				7	2	0
1601360-10				7	2	0
1601360-11				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: Added 2 drops 36.5%-38.0% HCl to samples 1-8, 10 drops for sample 9, 4 drops for sample 10, and 12 drops for sample 11.
INJ 11/4/16

- *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

B6K0029

Chemist: E Schneider

Prep Date/Time: 04-Nov-16 09:10

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 (C6K0026)	RS CHEM/WIT DATE
☐	B6K0029-BLK1	N/A	N/A	(0.125)	ES INJ 11/4/16	INJ 11/4/16	am INJ 11/4/16
☐	B6K0029-BS1	↓	↓	↓	↓	↓	↓
☐	1601360-01	151.45	27.21	0.12424			
☐	1601360-02	157.59	27.69	0.12990			
☐	1601360-03	154.89	27.21	0.12768			
☐	1601360-04	155.00	27.67	0.12733			
☐	1601360-05	154.76	27.34	0.12742			
☐	1601360-06	153.02	27.72	0.12530			
☐	1601360-07	156.16	27.31	0.12885			
☐	1601360-08	152.38	27.24	0.12514			
☐	1601360-09 (A)	INJ 11/4/16 ~~155.55~~ 155.21	27.22	0.12799			
☐	1601360-10 (A)	INJ 11/4/16 ~~152.74~~ 152.27	27.32	0.12495			
☐	1601360-11 (A)	INJ 11/4/16 ~~157.51~~ 156.67	27.15	0.12952			

(A) Samples contained particulate. Transferred to secondary container and centrifuged. Then decanted back into original container. JS 11/4/16

Strata XAW 33 µm 200mg/6mL

IS Name	NS Name	RS Name		
(V4) 16I2604, 10µL	(V2) 16I1601, 10µL	(V2) 16I2603, 10µL	SPE Chem: INJ 11/4/16	Check Out: Chemist/Date: INJ 11/4/16
			Ele SOLV: MeOH, 0.5% NH4OH in MeOH	Check In: Chemist/Date: N/A
			Final Volume(s) 1 mL	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\161109J3\161109J3_19.qld

Last Altered: Friday, November 11, 2016 11:33:37 Pacific Standard Time
Printed: Friday, November 11, 2016 11:42:23 Pacific Standard Time

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Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

ID: B6K0029-BLK1, Description: Method Blank, Name: 161109J3_19.wiff, Date: 09-Nov-2016, Time: 18:35:16

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90		6.146e3		0.125			
2	8	PFOA	368.90	7.694e1	6.114e3		0.125	4.72	0.458	
3	10	PFOS	79.92	4.042e0	3.395e3		0.125	5.11		
4	15	13C3-PFBS	79.95	6.146e3	1.238e4	0.570	0.125	3.46	87.1	87.1
5	16	13C2-PFHxA	269.90	3.658e3	1.238e4	0.896	0.125	3.85	33.0	82.5
6	17	13C4-PFHpA	321.90	7.195e3	1.238e4	0.754	0.125	4.33	77.1	77.1
7	18	18O2-PFHxS	102.90	1.239e3	5.322e3	0.267	0.125	4.44	87.2	87.2
8	19	13C2-6:2 FTS	408.90	1.881e3	1.232e4	0.193	0.125	4.67	79.1	79.1
9	20	13C2-PFOA	369.90	6.114e3	1.232e4	0.646	0.125	4.72	76.9	76.9
10	21	13C5-PFNA	422.90	7.478e3	8.829e3	0.972	0.125	5.06	87.1	87.1
11	22	13C8-PFOS	79.93	3.395e3	4.408e3	0.922	0.125	5.11	83.5	83.5
12	26	13C5-PFHxA	273.00	1.238e4	1.238e4	1.000	0.125	3.85	100	100
13	27	13C3-PFHxS	80.01	5.322e3	5.322e3	1.000	0.125	4.44	100	100
14	28	13C8-PFOA	375.90	1.232e4	1.232e4	1.000	0.125	4.72	100	100
15	29	13C4-PFOS	79.94	4.408e3	4.408e3	1.000	0.125	5.11	100	100
16	30	13C9-PFNA	427.00	8.829e3	8.829e3	1.000	0.125	5.05	100	100
17	31	13C6-PFDA	474.00	4.756e3	4.756e3	1.000	0.125	5.33	100	100
18	32	Total PFBS	79.90		6.146e3		0.125			
19	34	Total PFOA	368.90		6.114e3		0.125		0.458	
20	35	Total PFOS	79.92		3.395e3		0.125			

WJL 11/11/2016 AC 11/11/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_19.qld

Last Altered: Friday, November 11, 2016 11:33:37 Pacific Standard Time
Printed: Friday, November 11, 2016 11:42:23 Pacific Standard Time

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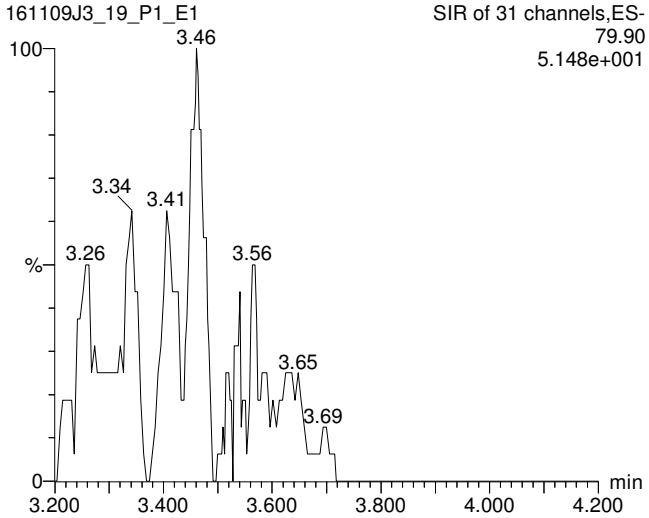
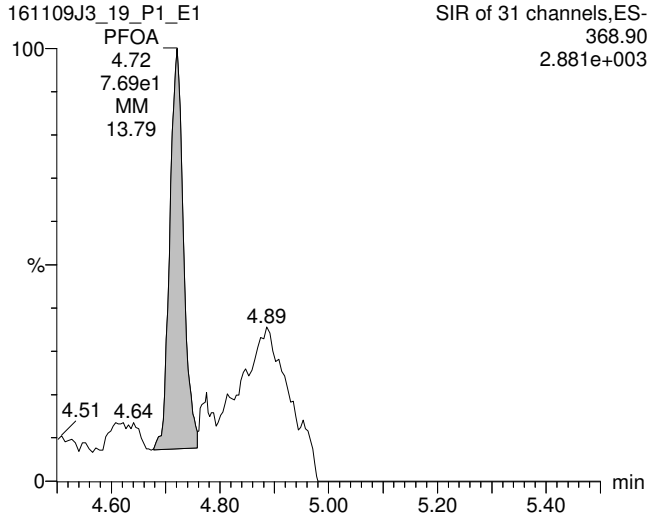
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

ID: B6K0029-BLK1, Description: Method Blank, Name: 161109J3_19.wiff, Date: 09-Nov-2016, Time: 18:35:16, Instrument: , Lab: ©PE-SCIEX, User: sciex

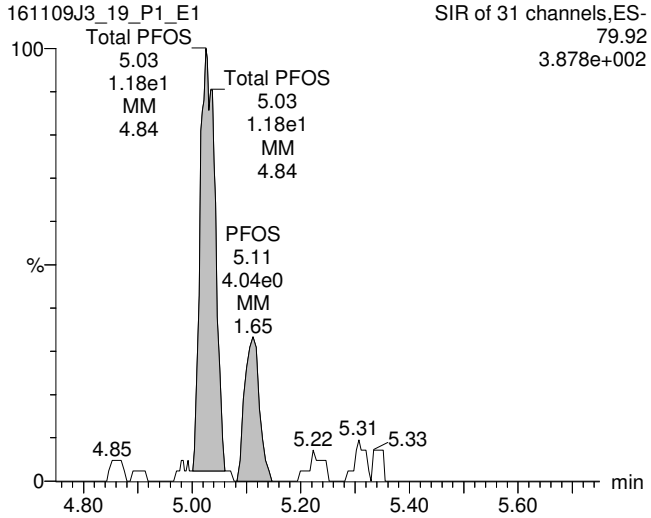
Total PFBS



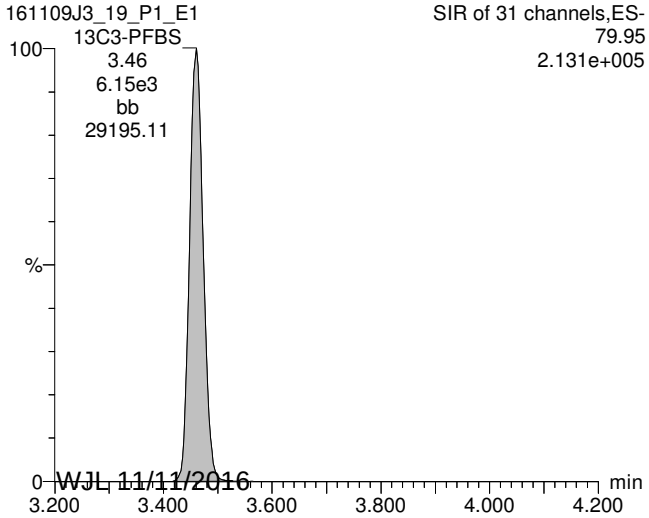
Total PFOA



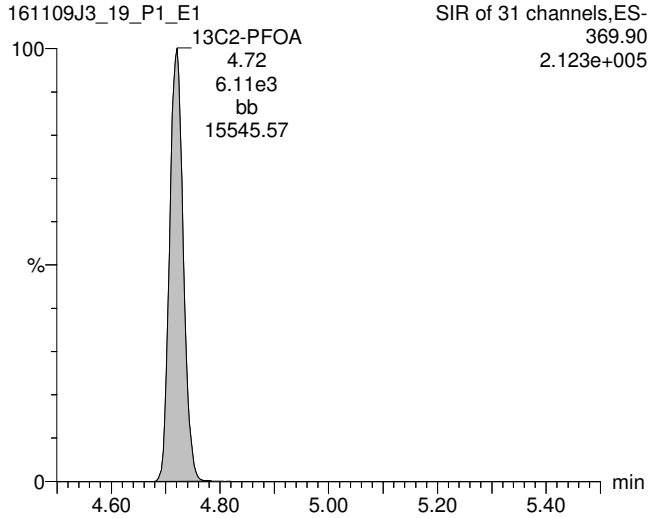
Total PFOS



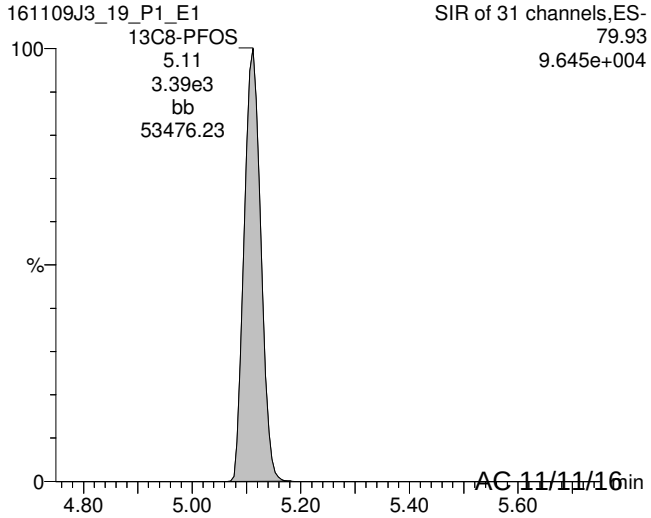
13C3-PFBS



13C2-PFOA



13C8-PFOS



WJL 11/11/2016 AC 11/11/16

Vista Analytical Laboratory Q1

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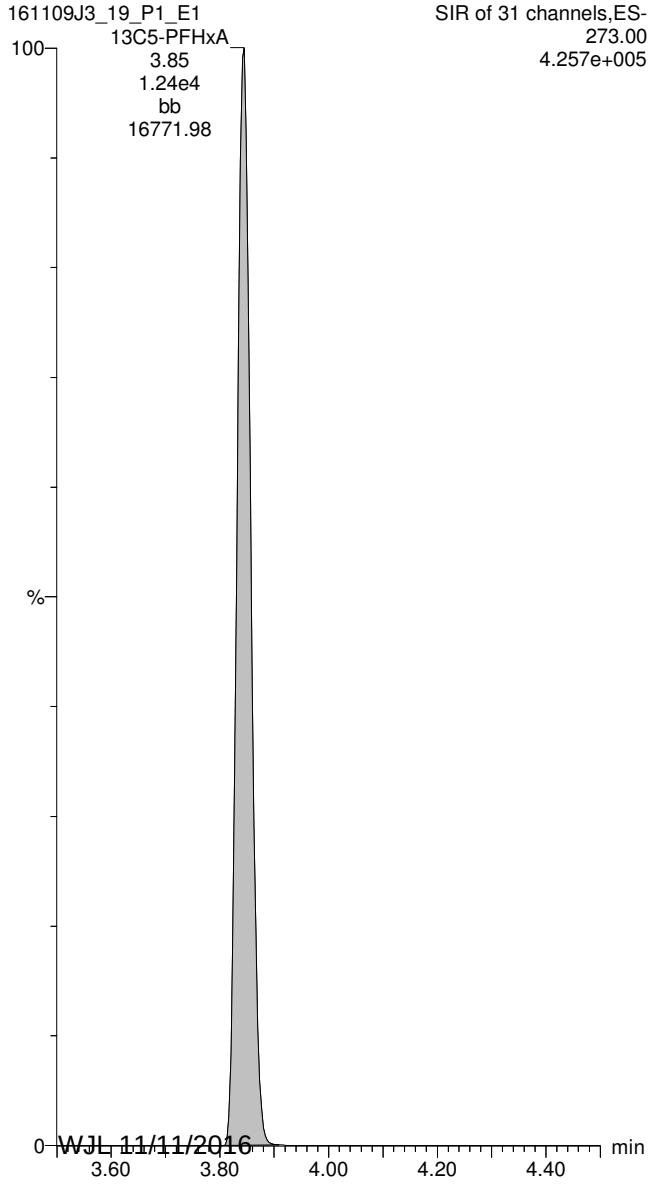
Printed: Friday, November 11, 2016 11:42:23 Pacific Standard Time

ID: B6K0029-BLK1, Description: Method Blank, Name: 161109J3_19.wiff, Date: 09-Nov-2016, Time: 18:35:16, Instrument: , Lab: ©PE-SCIEX, User: sciex

13C5-PFHxA



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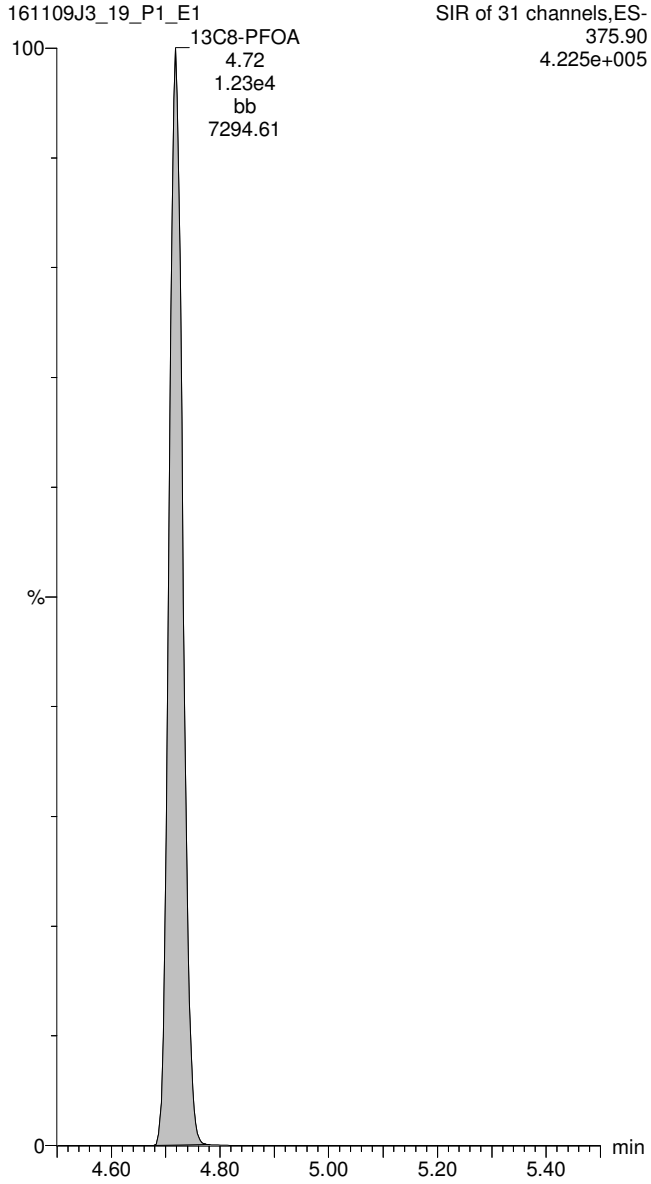
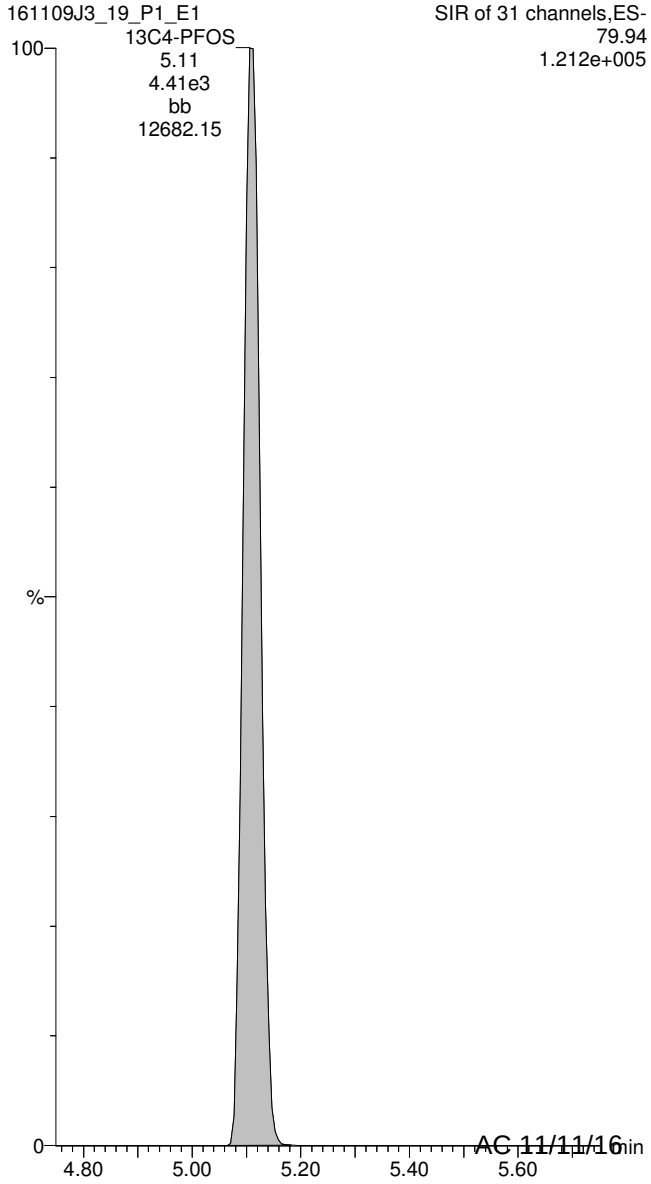


13C4-PFOS



WJL 11/11/2016 AC 11/11/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_15.qld

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

ID: B6K0029-BS1, Description: OPR, Name: 161109J3_15.wiff, Date: 09-Nov-2016, Time: 17:46:18

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90	5.032e3	6.767e3		0.125	3.45	89.4	112
2	8	PFOA	368.90	7.484e3	6.320e3		0.125	4.72	104	130
3	10	PFOS	79.92	3.128e3	3.206e3		0.125	5.11	83.2	104
4	15	13C3-PFBS	79.95	6.767e3	1.211e4	0.570	0.125	3.45	98.0	98.0
5	16	13C2-PFHxA	269.90	3.890e3	1.211e4	0.896	0.125	3.84	35.8	89.6
6	17	13C4-PFHpA	321.90	7.803e3	1.211e4	0.754	0.125	4.32	85.5	85.5
7	18	18O2-PFHxS	102.90	1.257e3	5.356e3	0.267	0.125	4.44	87.9	87.9
8	19	13C2-6:2 FTS	408.90	2.162e3	1.175e4	0.193	0.125	4.67	95.3	95.3
9	20	13C2-PFOA	369.90	6.320e3	1.175e4	0.646	0.125	4.71	83.3	83.3
10	21	13C5-PFNA	422.90	7.138e3	8.217e3	0.972	0.125	5.05	89.4	89.4
11	22	13C8-PFOS	79.93	3.206e3	3.656e3	0.922	0.125	5.11	95.1	95.1
12	26	13C5-PFHxA	273.00	1.211e4	1.211e4	1.000	0.125	3.83	100	100
13	27	13C3-PFHxS	80.01	5.356e3	5.356e3	1.000	0.125	4.44	100	100
14	28	13C8-PFOA	375.90	1.175e4	1.175e4	1.000	0.125	4.71	100	100
15	29	13C4-PFOS	79.94	3.656e3	3.656e3	1.000	0.125	5.11	100	100
16	30	13C9-PFNA	427.00	8.217e3	8.217e3	1.000	0.125	5.05	100	100
17	31	13C6-PFDA	474.00	4.417e3	4.417e3	1.000	0.125	5.33	100	100
18	32	Total PFBS	79.90		6.767e3		0.125		89.4	
19	34	Total PFOA	368.90		6.320e3		0.125		104	
20	35	Total PFOS	79.92		3.206e3		0.125		83.2	

WJL 11/11/2016 AC 11/11/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_15.qld

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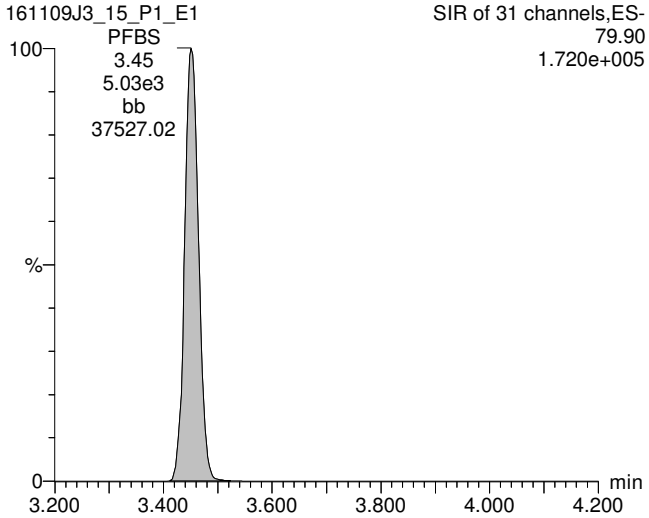
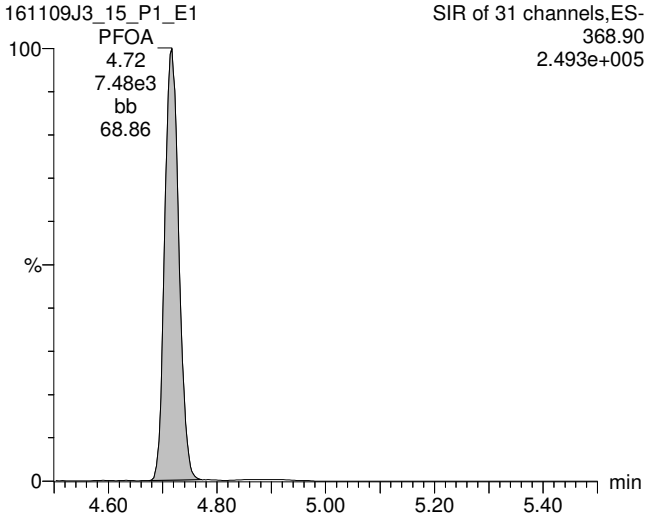
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

ID: B6K0029-BS1, Description: OPR, Name: 161109J3_15.wiff, Date: 09-Nov-2016, Time: 17:46:18, Instrument: , Lab: ©PE-SCIEX, User: sciex

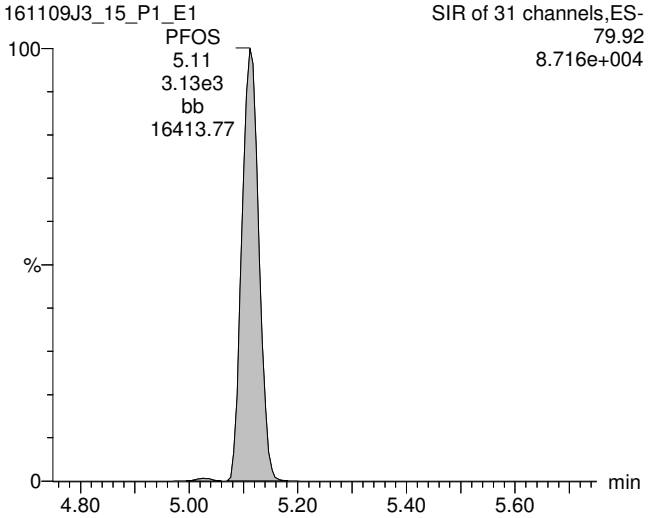
Total PFBS



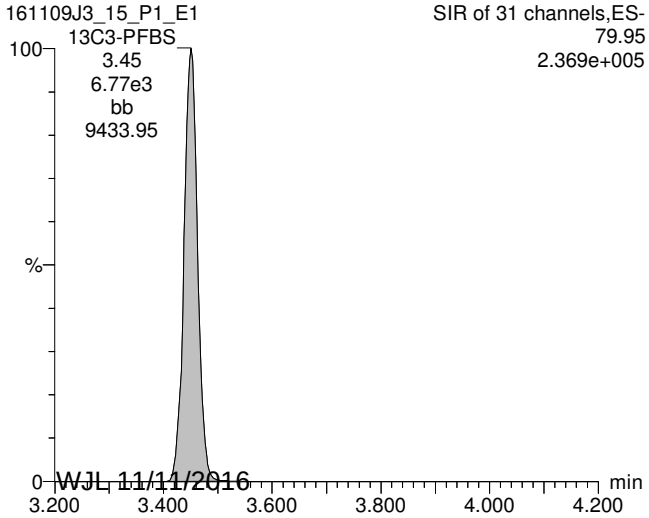
Total PFOA



Total PFOS

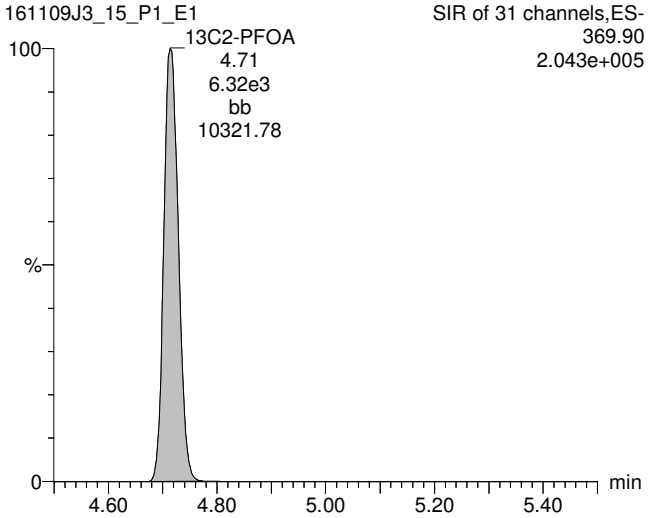


13C3-PFBS



WJL 11/11/2016

13C2-PFOA



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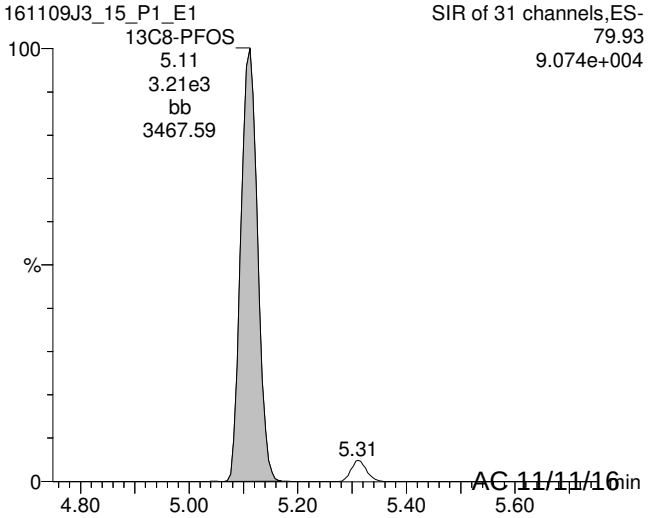

AC 11/11/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_15.qld

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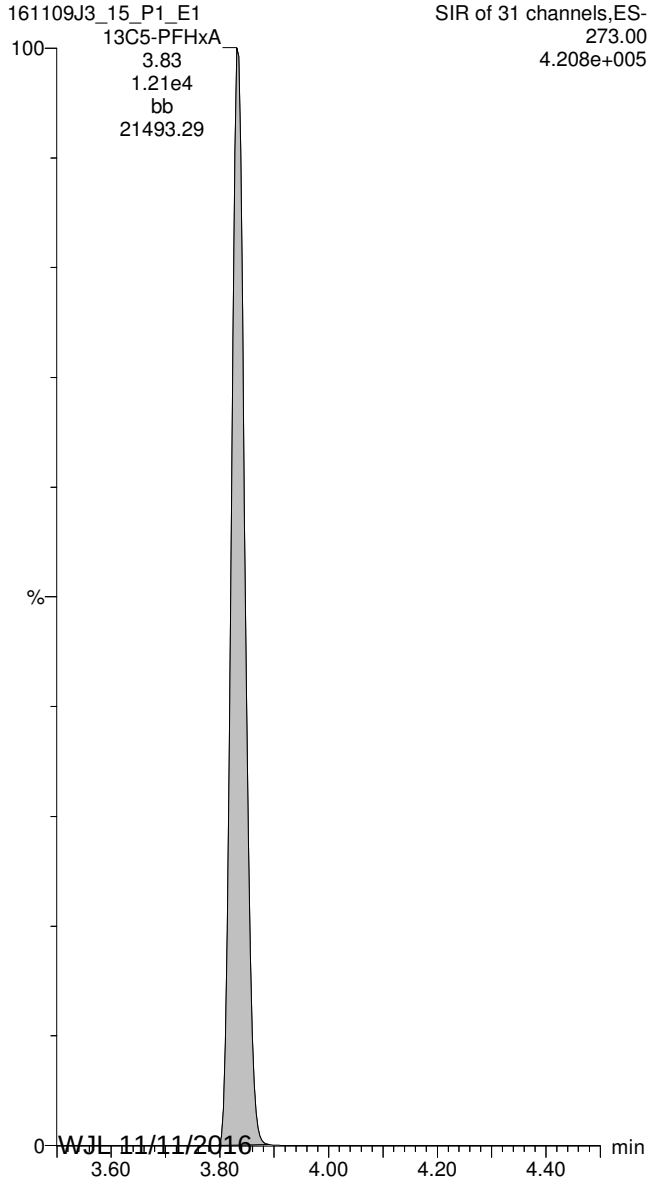
Printed: Friday, November 11, 2016 11:41:44 Pacific Standard Time

ID: B6K0029-BS1, Description: OPR, Name: 161109J3_15.wiff, Date: 09-Nov-2016, Time: 17:46:18, Instrument: , Lab: ©PE-SCIEX, User: sciex

13C5-PFHxA



WJL 11/11/2016

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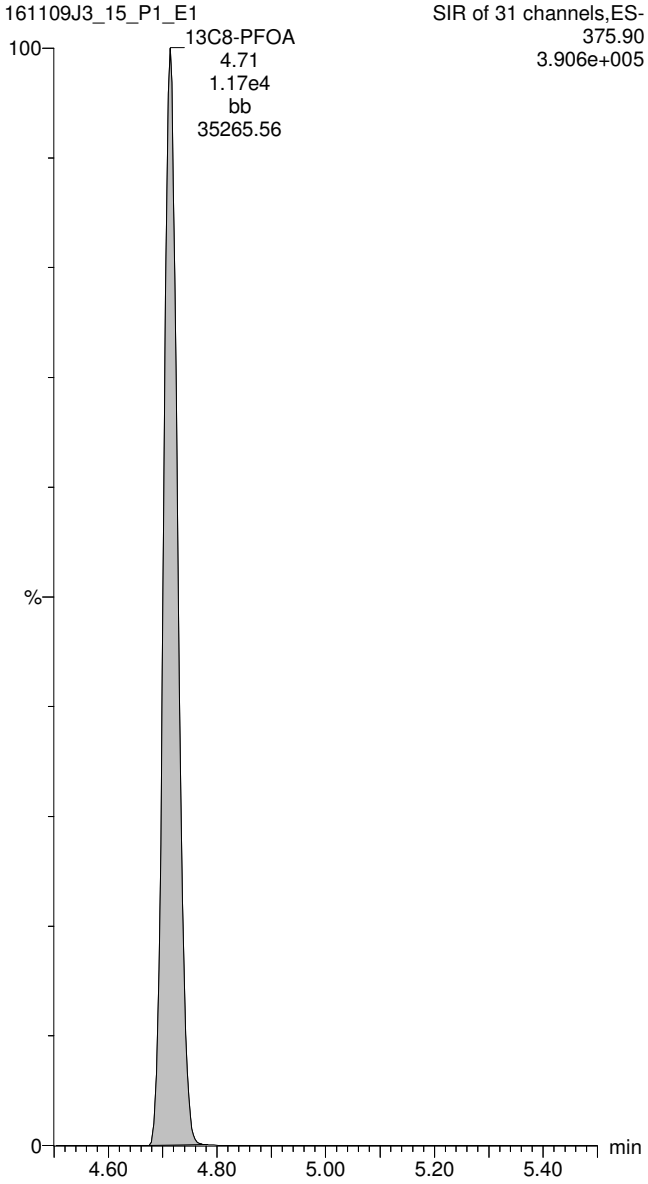
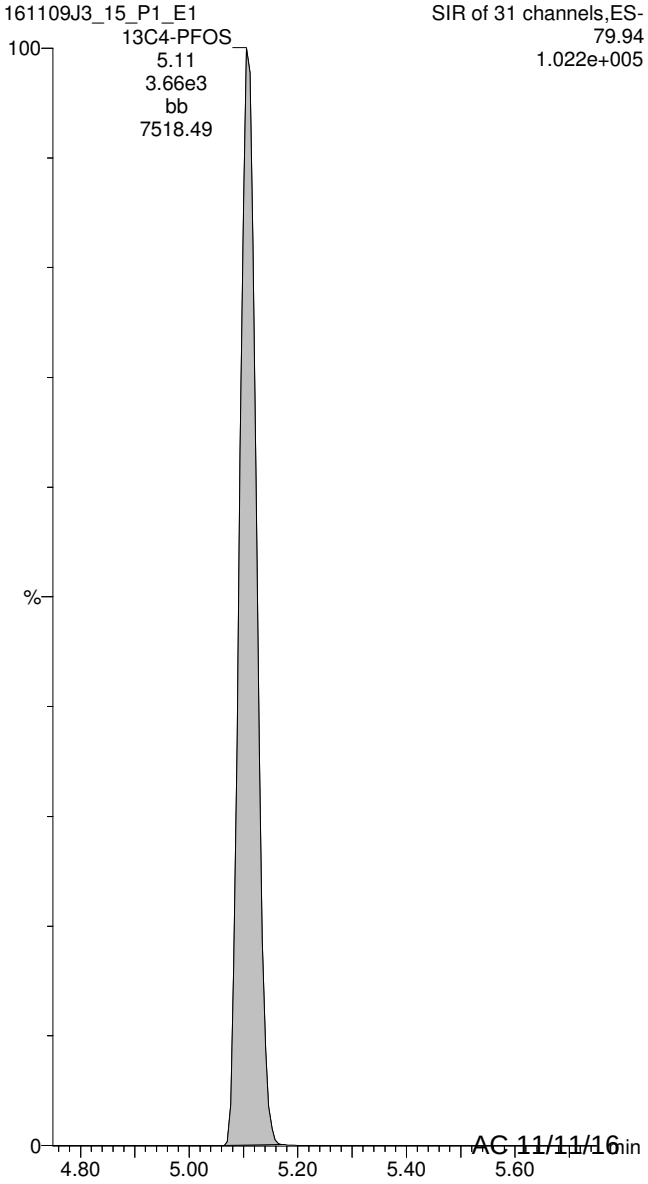


13C4-PFOS



AC 11/11/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161118J1\161118J1_07.qld

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Printed: Saturday, November 19, 2016 13:10:27 Pacific Standard Time

Method: U:\Q2.pro\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 15 Nov 2016 11:51:30
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601360-02, Description: EB-M05-02_161025, Name: 161118J1_07.wiff, Date: 18-Nov-2016, Time: 16:00:46

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	79.90		5.623e3		0.130			
2	8	PFOA	368.90	5.557e1	5.709e3		0.130	4.67	0.437	
3	10	PFOS	79.92		3.131e3		0.130			
4	15	13C3-PFBS	79.95	5.623e3	1.095e4	0.531	0.130	3.40	93.1	96.8
5	16	13C2-PFHxA	269.90	3.529e3	1.095e4	0.905	0.130	3.80	34.3	89.1
6	17	13C4-PFHpA	321.90	6.744e3	1.095e4	0.770	0.130	4.27	77.0	80.0
7	18	18O2-PFHxS	102.90	1.087e3	4.577e3	0.276	0.130	4.38	82.8	86.0
8	19	13C2-6:2 FTS	408.90	2.023e3	1.004e4	0.219	0.130	4.62	88.6	92.1
9	20	13C2-PFOA	369.90	5.709e3	1.004e4	0.663	0.130	4.67	82.5	85.7
10	21	13C5-PFNA	422.90	4.686e3	6.129e3	1.019	0.130	5.00	72.2	75.0
11	22	13C8-PFOS	79.93	3.131e3	3.709e3	0.921	0.130	5.06	88.2	91.6
12	26	13C5-PFHxA	273.00	1.095e4	1.095e4	1.000	0.130	3.79	96.2	100
13	27	13C3-PFHxS	80.01	4.577e3	4.577e3	1.000	0.130	4.38	96.2	100
14	28	13C8-PFOA	375.90	1.004e4	1.004e4	1.000	0.130	4.67	96.2	100
15	29	13C4-PFOS	79.94	3.709e3	3.709e3	1.000	0.130	5.06	96.2	100
16	32	Total PFBS	79.90		5.623e3		0.130			
17	33	Total PFHxS	79.91		1.087e3		0.130		0.346	
18	34	Total PFOA	368.90		5.709e3		0.130		0.437	
19	35	Total PFOS	79.92		3.131e3		0.130			

Rev'd: MM 11/20/16 CG 11/19/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161118J1\161118J1_07.qld

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Printed: Saturday, November 19, 2016 13:10:27 Pacific Standard Time

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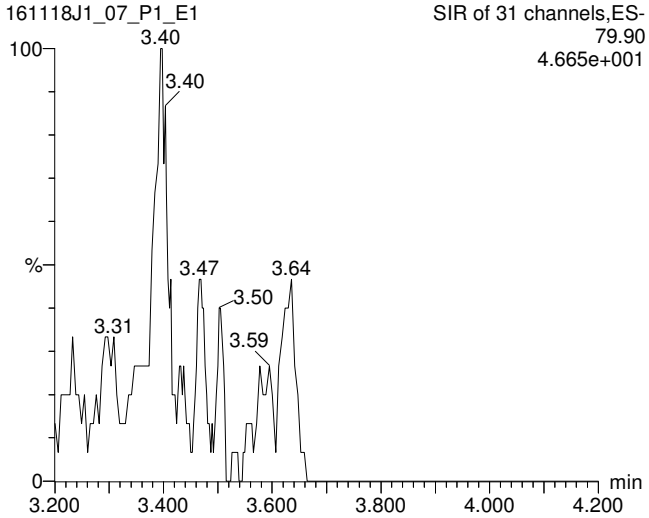
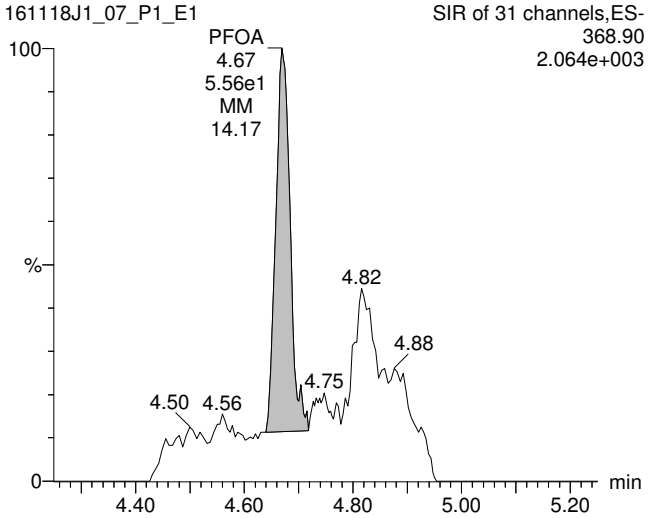
Calibration: U:\Q2.pro\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

ID: 1601360-02, Description: EB-M05-02_161025, Name: 161118J1_07.wiff, Date: 18-Nov-2016, Time: 16:00:46, Instrument: , Lab: ©PE-SCIEX, User: sciex

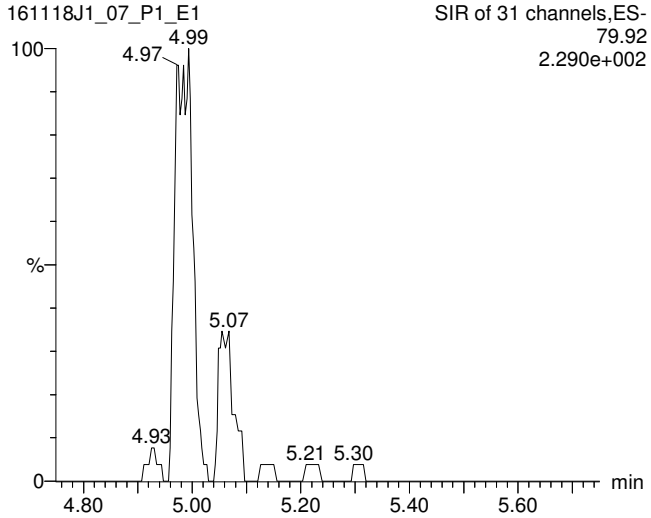
Total PFBS



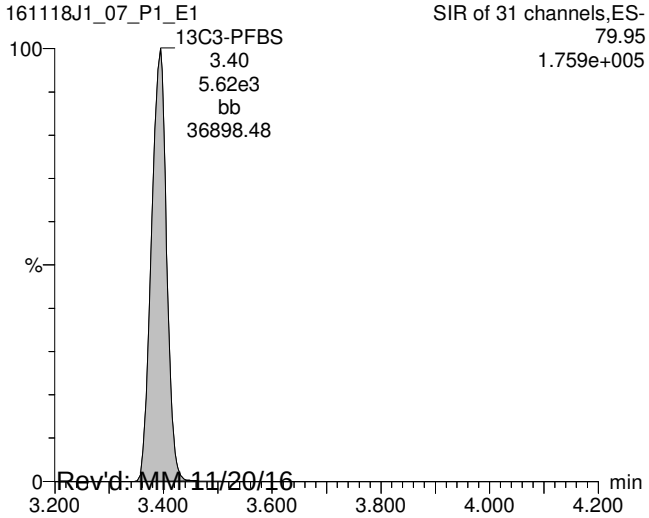
Total PFOA



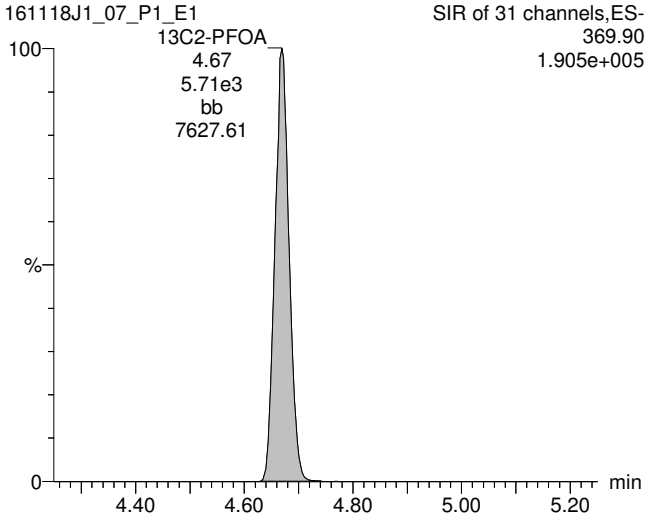
Total PFOS



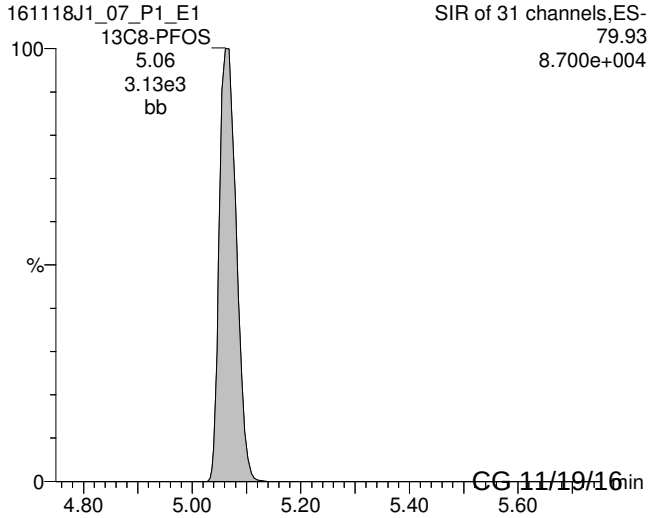
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/20/16 CG 11/19/16

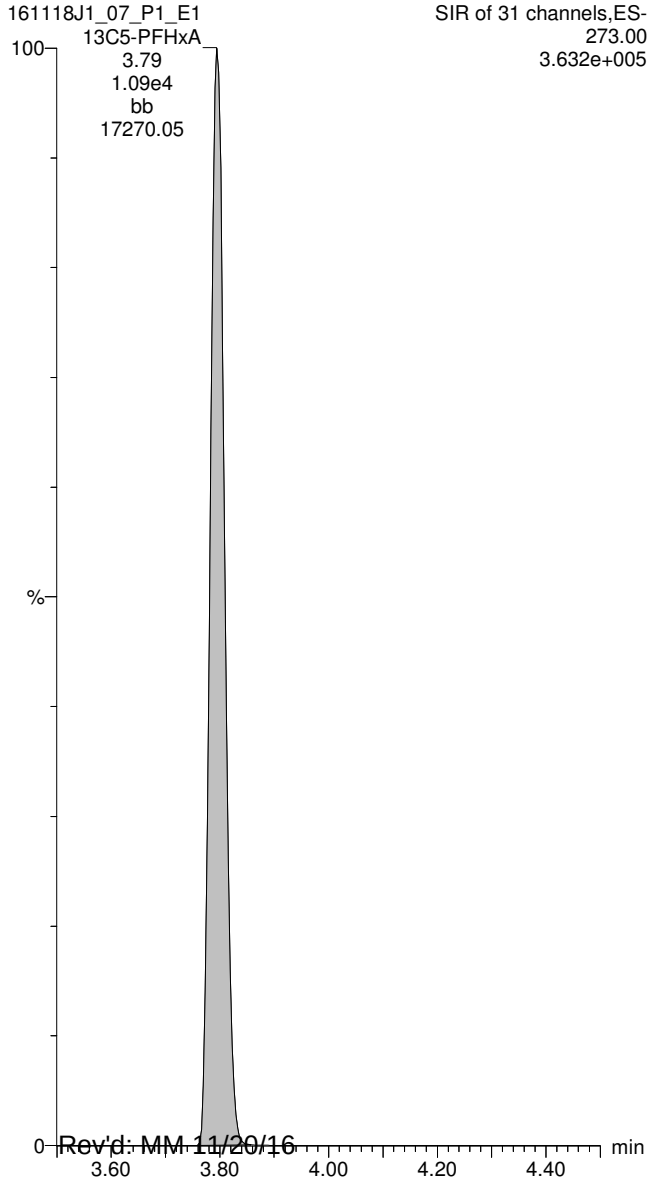
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161118J1\161118J1_07.qld

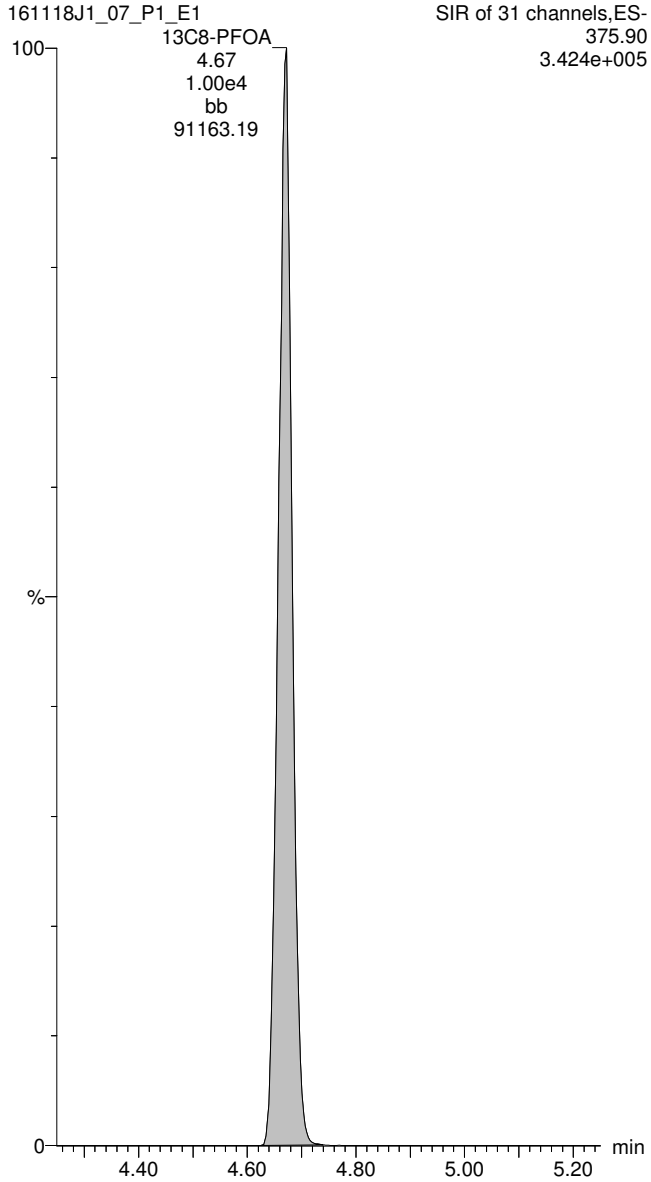
Last Altered: Saturday, November 19, 2016 13:09:56 Pacific Standard Time
Printed: Saturday, November 19, 2016 13:10:27 Pacific Standard Time

ID: 1601360-02, Description: EB-M05-02_161025, Name: 161118J1_07.wiff, Date: 18-Nov-2016, Time: 16:00:46, Instrument: , Lab: ©PE-SCIEX, User: sciex

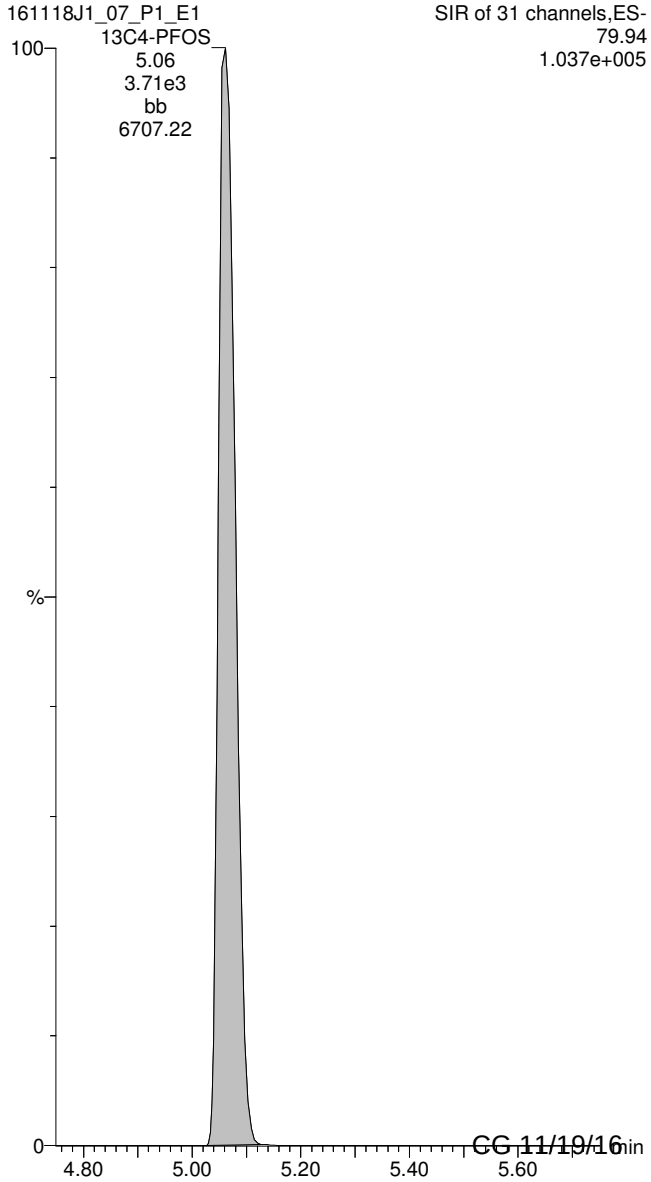
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/20/16 CG 11/19/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-43.qld

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Printed: Thursday, November 17, 2016 10:53:23 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-03 EB-M05-03_161025 0.12768, Description: EB-M05-03_161025, Name: 161116G1_43, Date: 16-Nov-2016, Time: 19:41:05

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7		1.944e3		0.128			
2	5	PFOA	413 > 368.7	6.954e1	5.954e3		0.128	4.37		
3	6	PFOS	499 >79.9		1.378e3		0.128			
4	9	13C3-PFBS	302.0 > 98.8	1.944e3	8.685e3	0.250	0.128	3.08	87.7	89.6
5	10	13C2-PFHxA	315 > 269.8	2.106e3	8.685e3	0.741	0.128	3.43	32.0	81.8
6	11	13C4-PFHpA	367.2 > 321.8	4.829e3	2.674e3	2.077	0.128	3.96	85.1	87.0
7	12	18O2-PFHxS	403 > 102.6	1.454e3	2.674e3	0.603	0.128	4.08	88.3	90.2
8	13	13C2-PFOA	414.9 > 369.7	5.954e3	2.926e3	2.438	0.128	4.37	81.7	83.4
9	14	13C8-PFOS	507.0 > 79.9	1.378e3	1.597e3	1.055	0.128	4.76	80.0	81.7
10	17	13C5-PFHxA	318.0 > 272.9	8.685e3	8.685e3	1.000	0.128	3.43	97.9	100
11	18	13C3-PFHxS	401.9 > 79.9	2.674e3	2.674e3	1.000	0.128	4.08	97.9	100
12	19	13C8-PFOA	421.3 > 376	2.926e3	2.926e3	1.000	0.128	4.37	97.9	100
13	20	13C4-PFOS	503.0 > 79.9	1.597e3	1.597e3	1.000	0.128	4.76	97.9	100
14	23	Total PFBS	299 > 79.7		1.944e3		0.128			
15	25	Total PFOA	413 > 368.7		5.954e3		0.128			
16	26	Total PFOS	499 > 79.9		1.378e3		0.128			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-43.qld

Last Altered: Thursday, November 17, 2016 10:52:53 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:53:23 AM Pacific Standard Time

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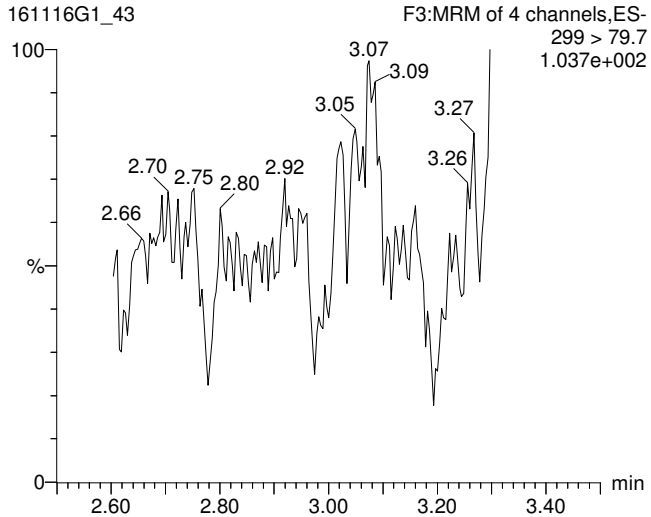
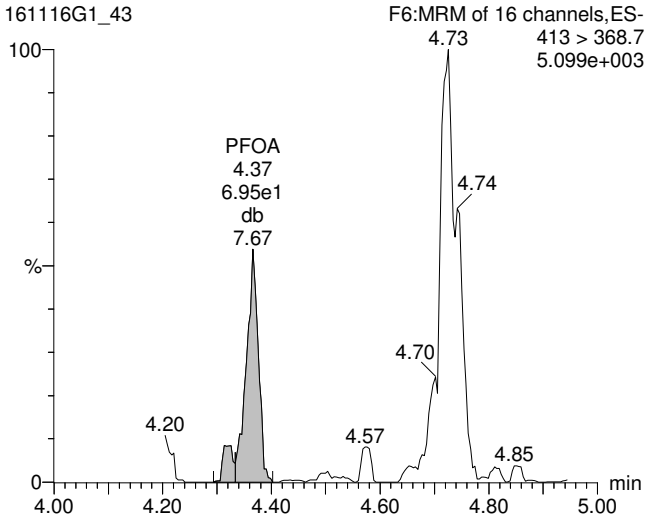
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-03 EB-M05-03_161025 0.12768, Description: EB-M05-03_161025, Name: 161116G1_43, Date: 16-Nov-2016, Time: 19:41:05, Instrument: , Lab: , User:

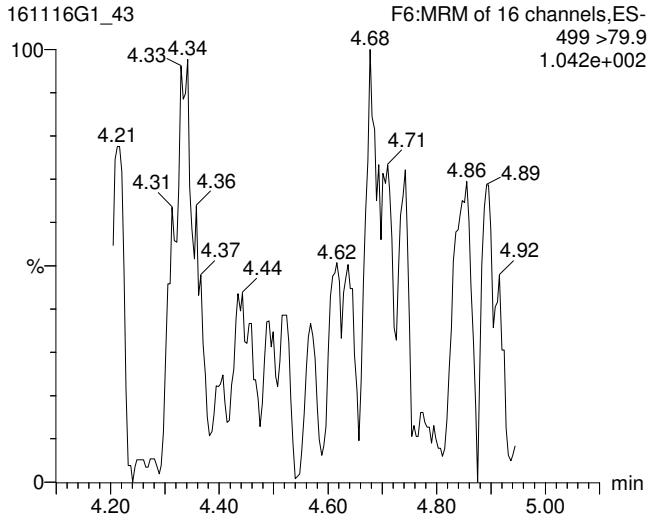
Total PFBS



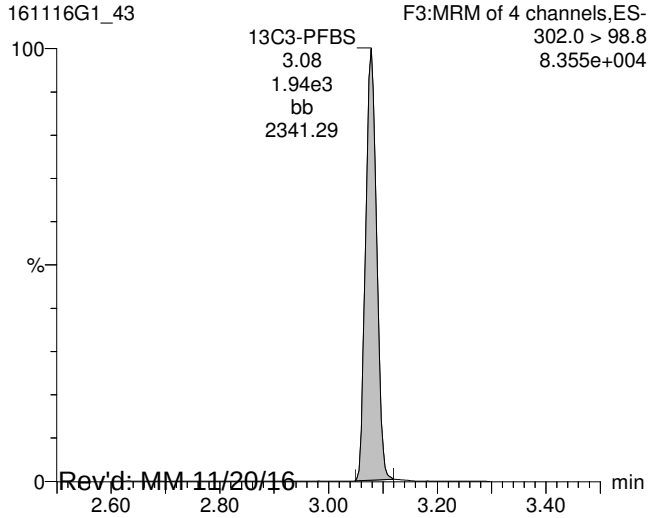
Total PFOA



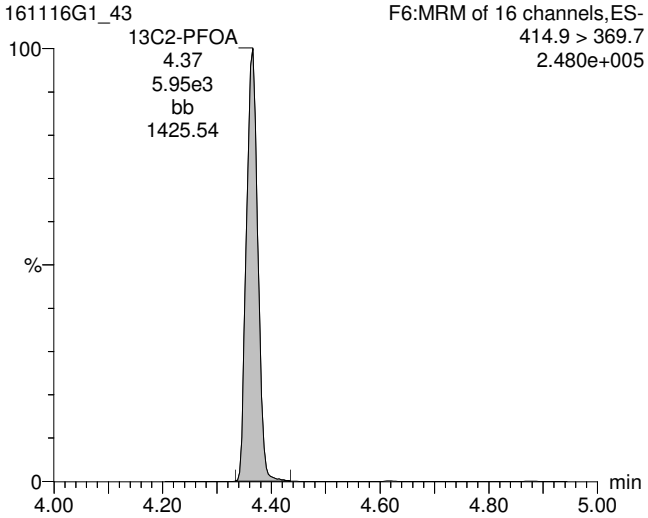
Total PFOS



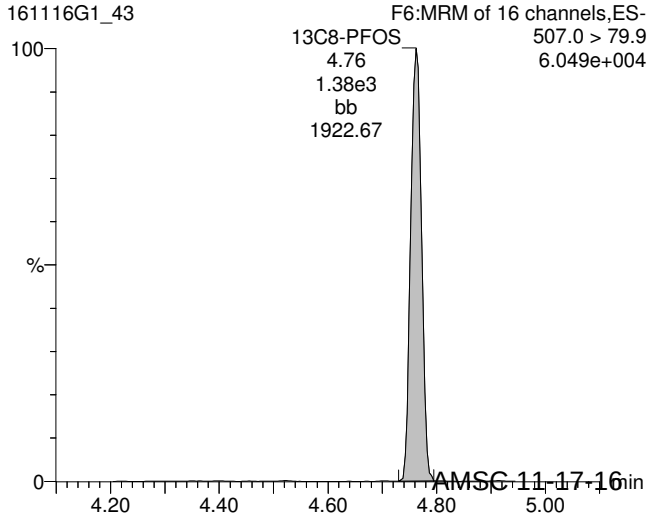
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

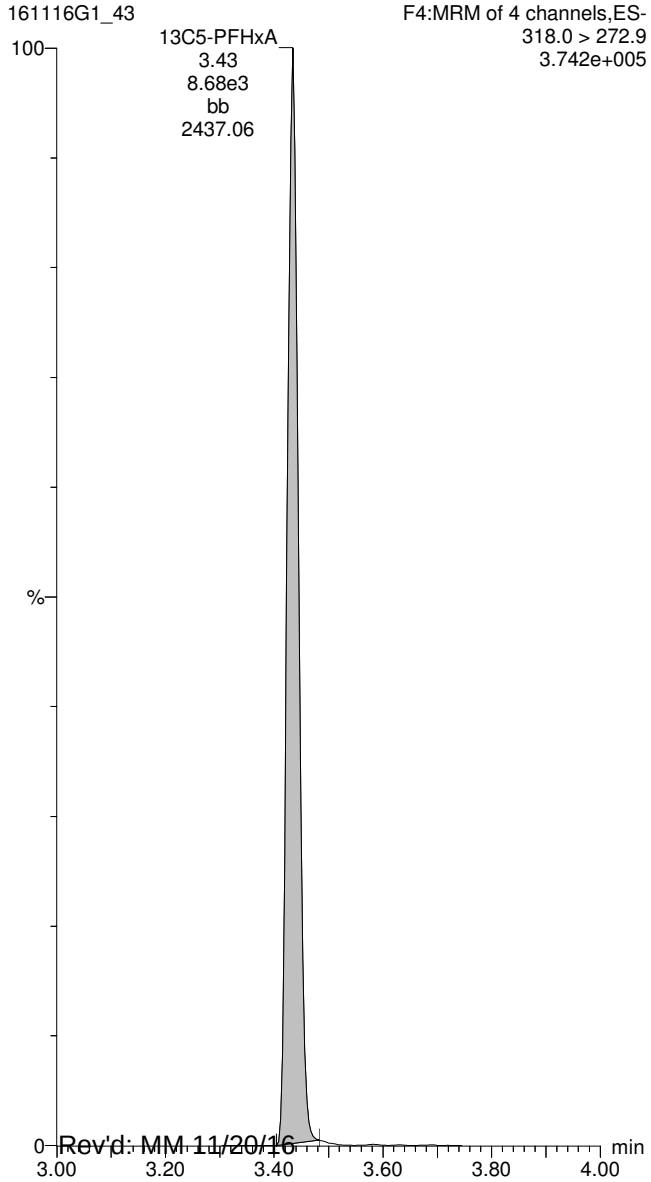
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-43.qld

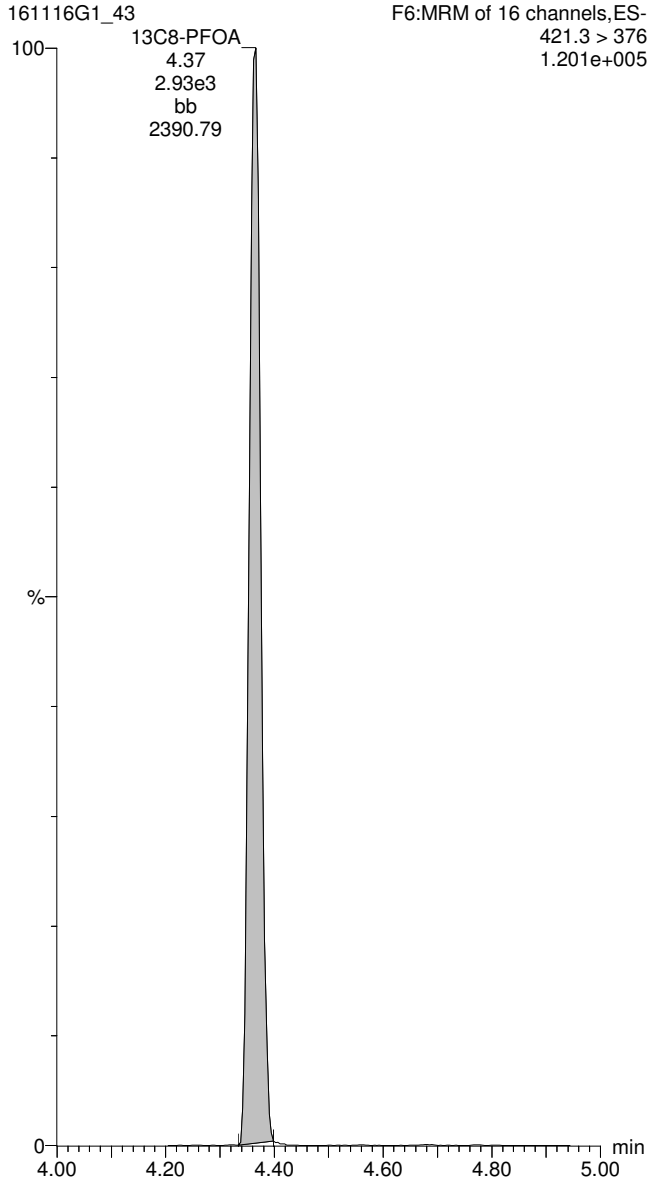
Last Altered: Thursday, November 17, 2016 10:52:53 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:53:23 AM Pacific Standard Time

ID: 1601360-03 EB-M05-03_161025 0.12768, Description: EB-M05-03_161025, Name: 161116G1_43, Date: 16-Nov-2016, Time: 19:41:05, Instrument: , Lab: , User:

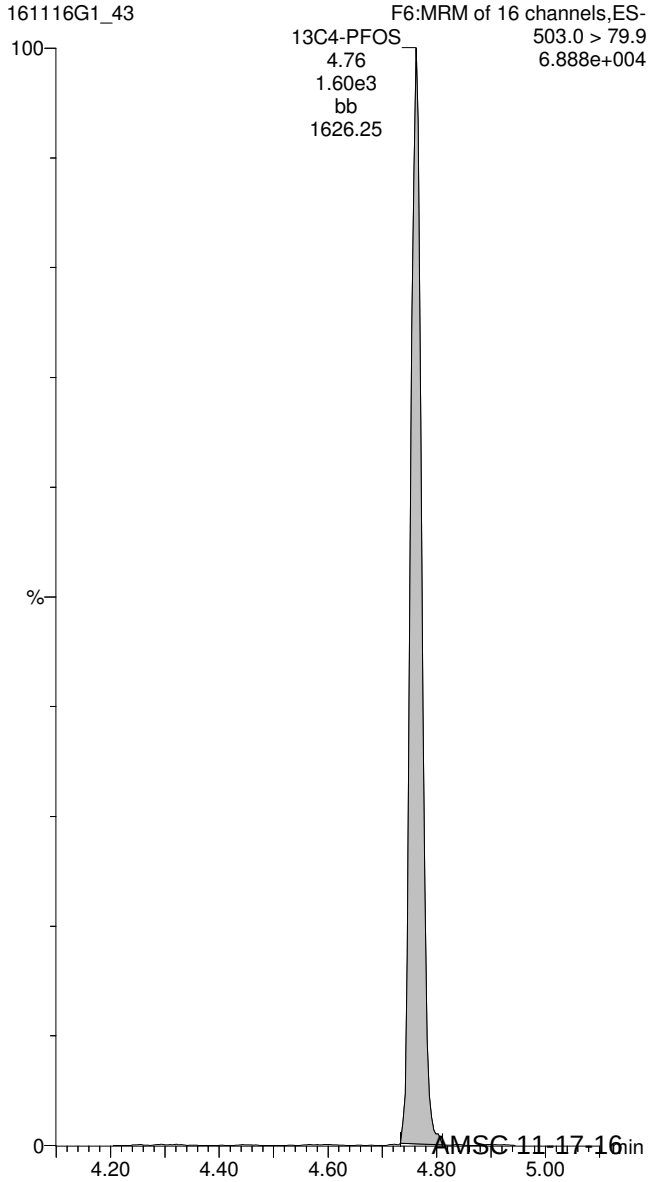
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-47.qld

Last Altered: Thursday, November 17, 2016 10:55:51 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:56:48 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-04 EB-M08-07_161025 0.12733, Description: EB-M08-07_161025, Name: 161116G1_47, Date: 16-Nov-2016, Time: 20:31:36

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7		6.866e3		0.127			
2	5	PFOA	413 > 368.7	1.473e2	2.680e4		0.127	4.37		
3	6	PFOS	499 >79.9		5.936e3		0.127			
4	9	13C3-PFBS	302.0 > 98.8	6.866e3	3.075e4	0.250	0.127	3.08	87.8	89.4
5	10	13C2-PFHxA	315 > 269.8	7.672e3	3.075e4	0.741	0.127	3.44	33.0	84.2
6	11	13C4-PFHpA	367.2 > 321.8	1.878e4	1.060e4	2.077	0.127	3.96	83.7	85.3
7	12	18O2-PFHxS	403 > 102.6	6.356e3	1.060e4	0.603	0.127	4.07	97.7	99.5
8	13	13C2-PFOA	414.9 > 369.7	2.680e4	1.218e4	2.438	0.127	4.36	88.6	90.2
9	14	13C8-PFOS	507.0 > 79.9	5.936e3	5.964e3	1.055	0.127	4.76	92.6	94.3
10	17	13C5-PFHxA	318.0 > 272.9	3.075e4	3.075e4	1.000	0.127	3.43	98.2	100
11	18	13C3-PFHxS	401.9 > 79.9	1.060e4	1.060e4	1.000	0.127	4.08	98.2	100
12	19	13C8-PFOA	421.3 > 376	1.218e4	1.218e4	1.000	0.127	4.36	98.2	100
13	20	13C4-PFOS	503.0 > 79.9	5.964e3	5.964e3	1.000	0.127	4.76	98.2	100
14	23	Total PFBS	299 > 79.7		6.866e3		0.127			
15	25	Total PFOA	413 > 368.7		2.680e4		0.127			
16	26	Total PFOS	499 > 79.9		5.936e3		0.127			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-47.qld

Last Altered: Thursday, November 17, 2016 10:55:51 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:56:48 AM Pacific Standard Time

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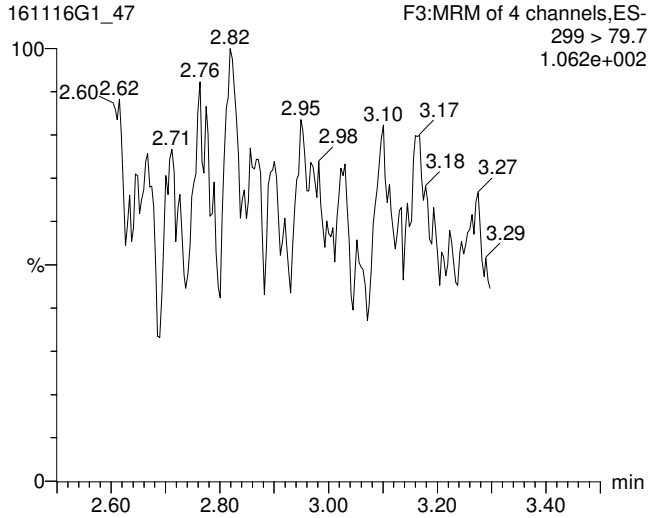
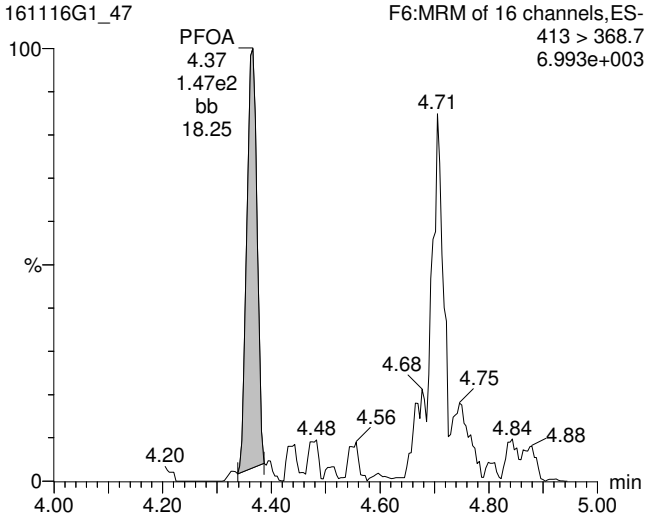
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-04 EB-M08-07_161025 0.12733, Description: EB-M08-07_161025, Name: 161116G1_47, Date: 16-Nov-2016, Time: 20:31:36, Instrument: , Lab: , User:

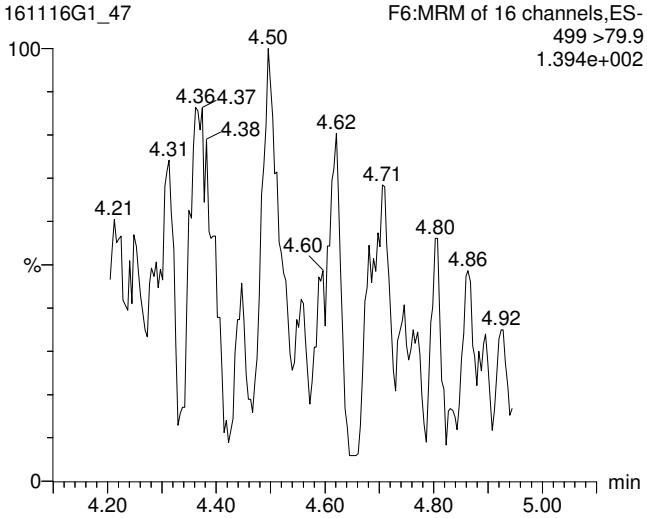
Total PFBS



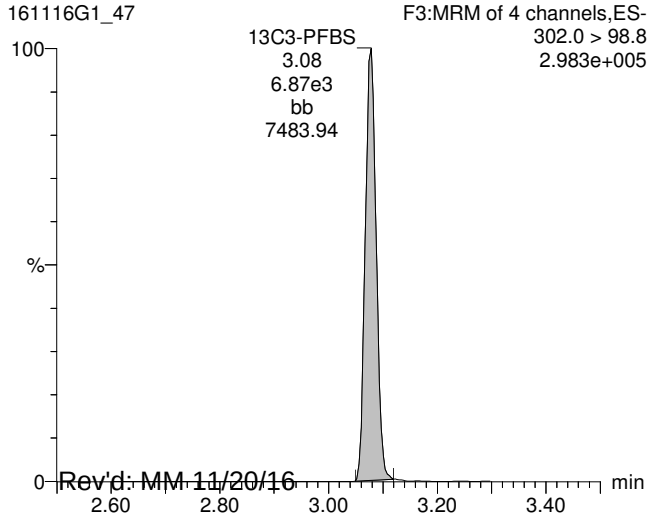
Total PFOA



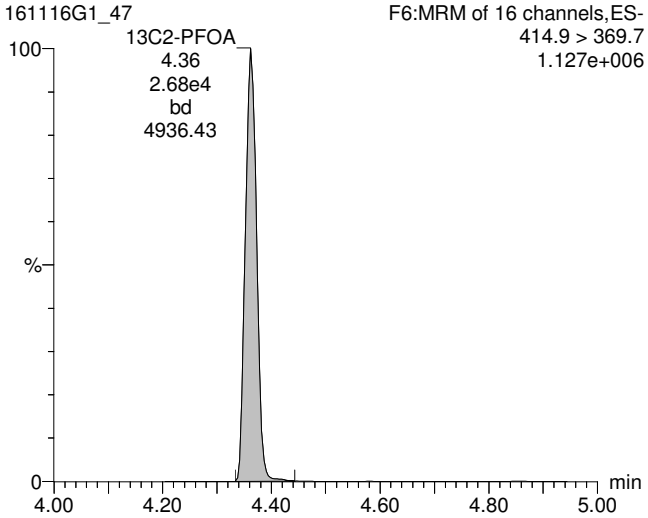
Total PFOS



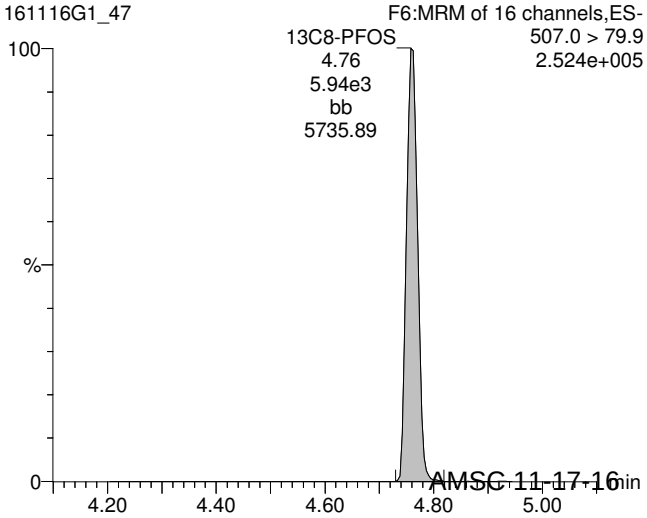
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

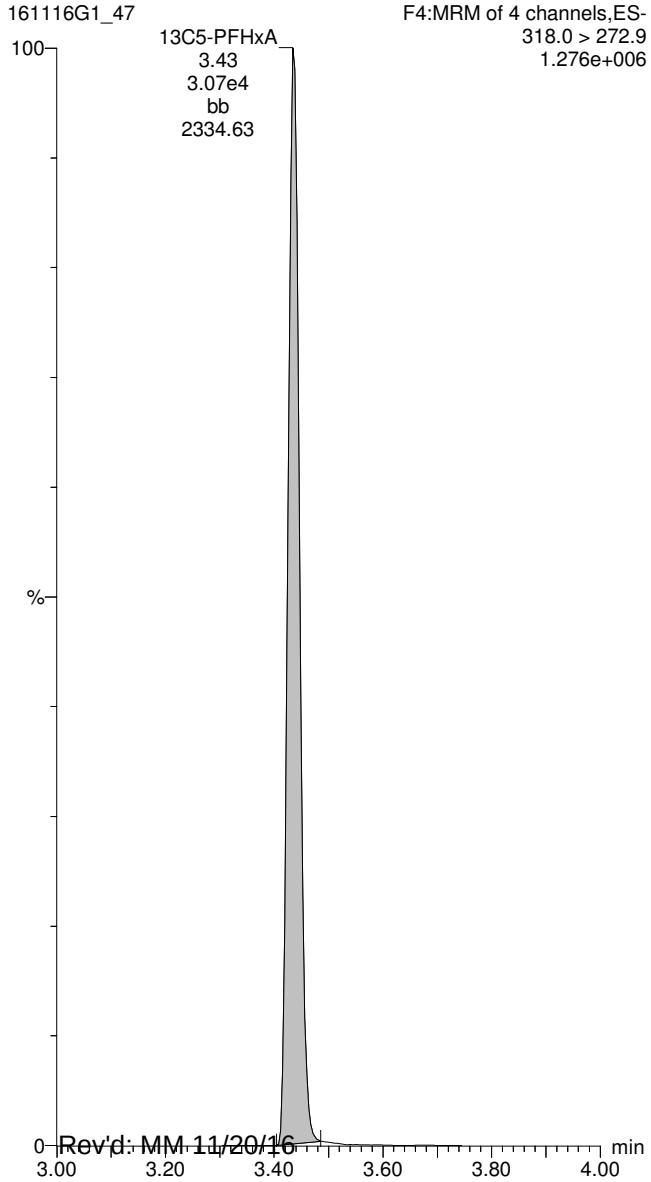
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-47.qld

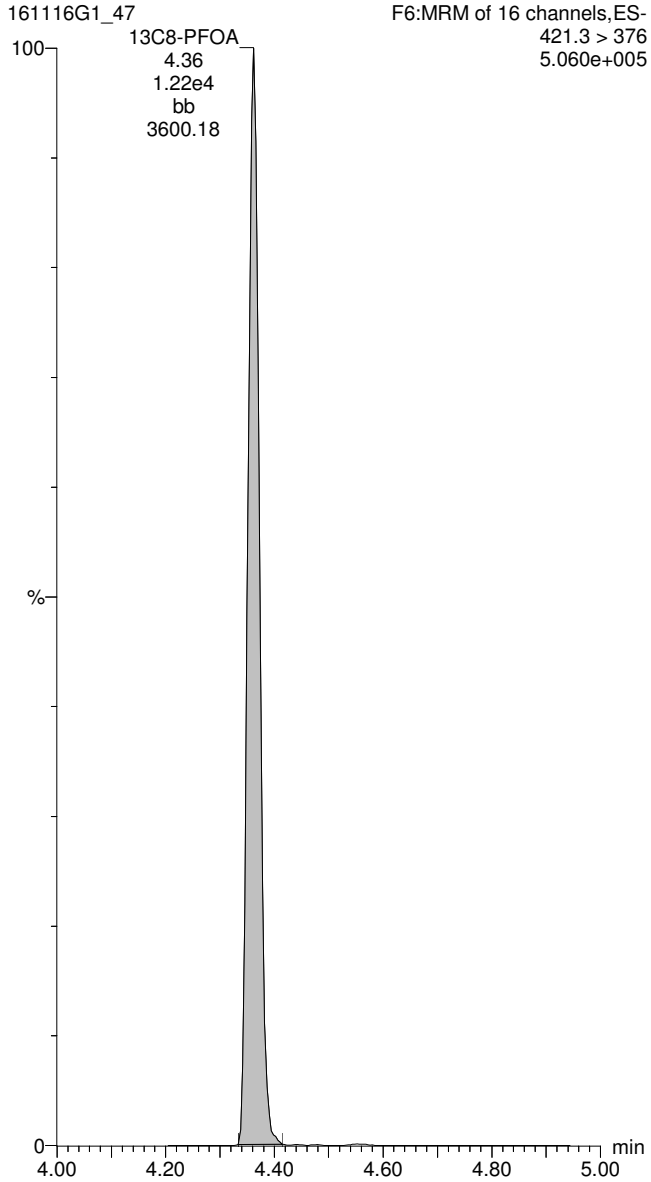
Last Altered: Thursday, November 17, 2016 10:55:51 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:56:48 AM Pacific Standard Time

ID: 1601360-04 EB-M08-07_161025 0.12733, Description: EB-M08-07_161025, Name: 161116G1_47, Date: 16-Nov-2016, Time: 20:31:36, Instrument: , Lab: , User:

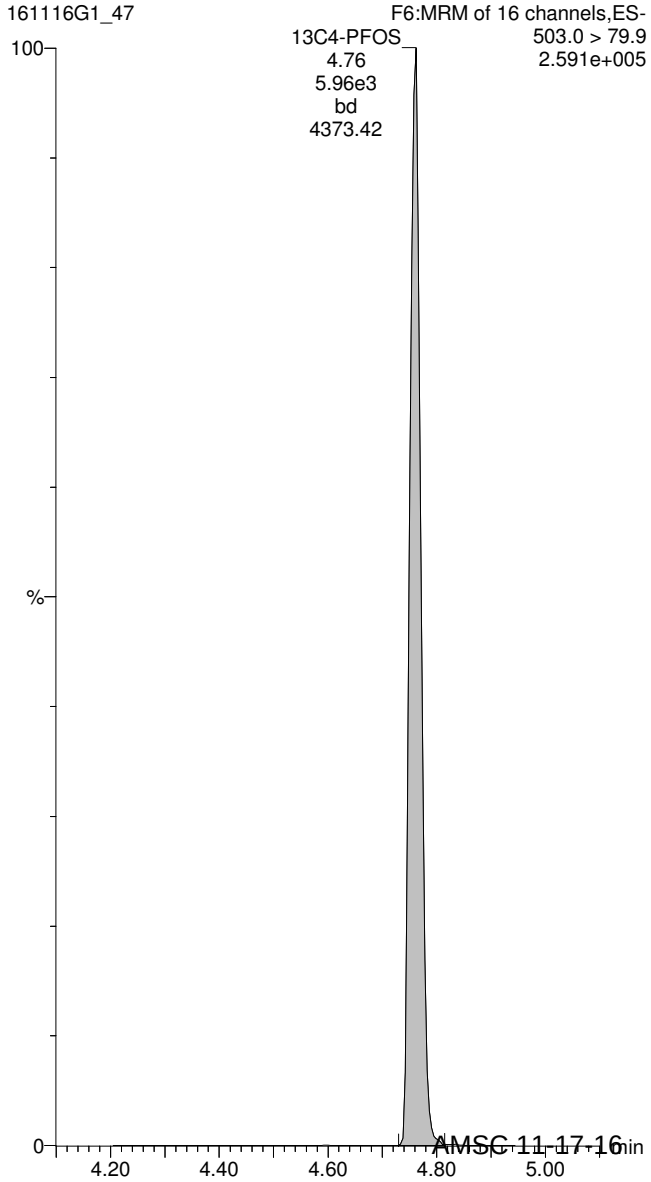
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-48.qld

Last Altered: Thursday, November 17, 2016 10:59:16 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:59:30 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-05 EB-M10-01_161025 0.12742, Description: EB-M10-01_161025, Name: 161116G1_48, Date: 16-Nov-2016, Time: 20:44:13

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7		3.974e2		0.127			
2	5	PFOA	413 > 368.7	2.573e1	1.633e3		0.127	4.36		
3	6	PFOS	499 >79.9		4.650e2		0.127			
4	9	13C3-PFBS	302.0 > 98.8	3.974e2	1.434e3	0.250	0.127	3.08	109	111
5	10	13C2-PFHxA	315 > 269.8	3.835e2	1.434e3	0.741	0.127	3.43	35.4	90.2
6	11	13C4-PFHpA	367.2 > 321.8	8.953e2	7.203e2	2.077	0.127	3.96	58.7	59.8
7	12	18O2-PFHxS	403 > 102.6	4.162e2	7.203e2	0.603	0.127	4.07	94.0	95.9
8	13	13C2-PFOA	414.9 > 369.7	1.633e3	8.224e2	2.438	0.127	4.36	79.9	81.4
9	14	13C8-PFOS	507.0 > 79.9	4.650e2	4.424e2	1.055	0.127	4.76	97.7	99.6
10	17	13C5-PFHxA	318.0 > 272.9	1.434e3	1.434e3	1.000	0.127	3.43	98.1	100
11	18	13C3-PFHxS	401.9 > 79.9	7.203e2	7.203e2	1.000	0.127	4.08	98.1	100
12	19	13C8-PFOA	421.3 > 376	8.224e2	8.224e2	1.000	0.127	4.36	98.1	100
13	20	13C4-PFOS	503.0 > 79.9	4.424e2	4.424e2	1.000	0.127	4.76	98.1	100
14	23	Total PFBS	299 > 79.7		3.974e2		0.127			
15	25	Total PFOA	413 > 368.7		1.633e3		0.127			
16	26	Total PFOS	499 > 79.9		4.650e2		0.127			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-48.qld

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Printed: Thursday, November 17, 2016 10:59:30 AM Pacific Standard Time

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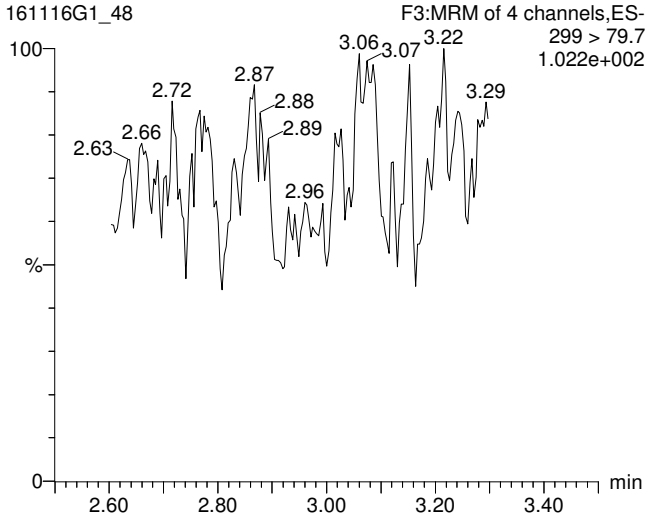
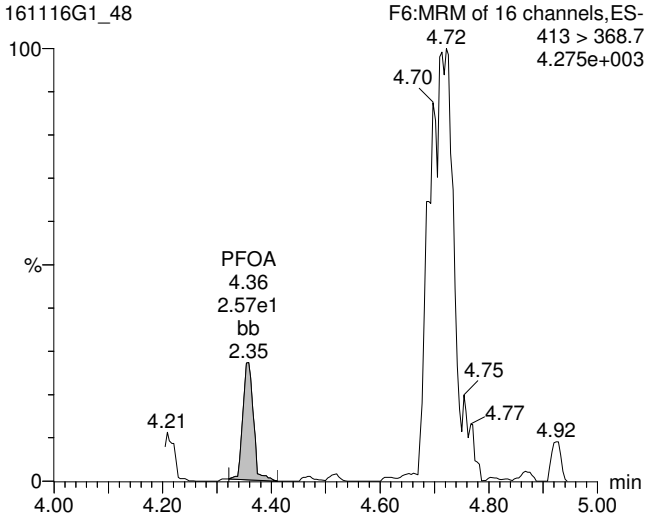
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-05 EB-M10-01_161025 0.12742, Description: EB-M10-01_161025, Name: 161116G1_48, Date: 16-Nov-2016, Time: 20:44:13, Instrument: , Lab: , User:

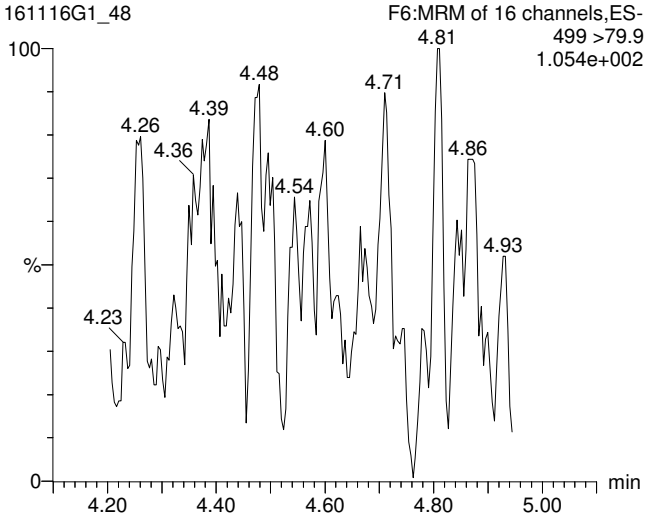
Total PFBS



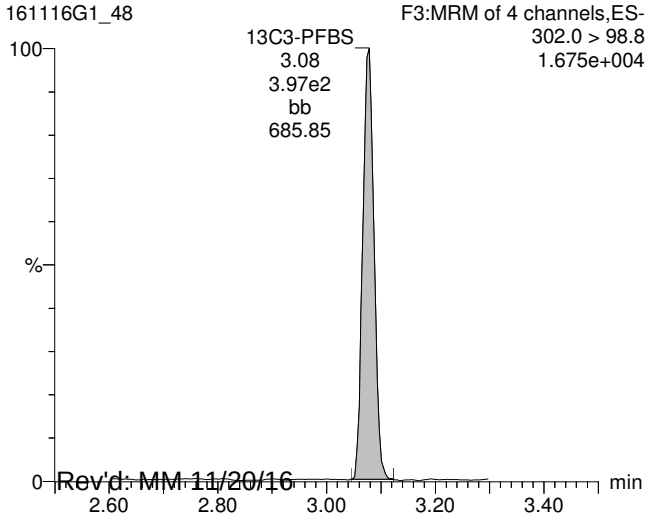
Total PFOA



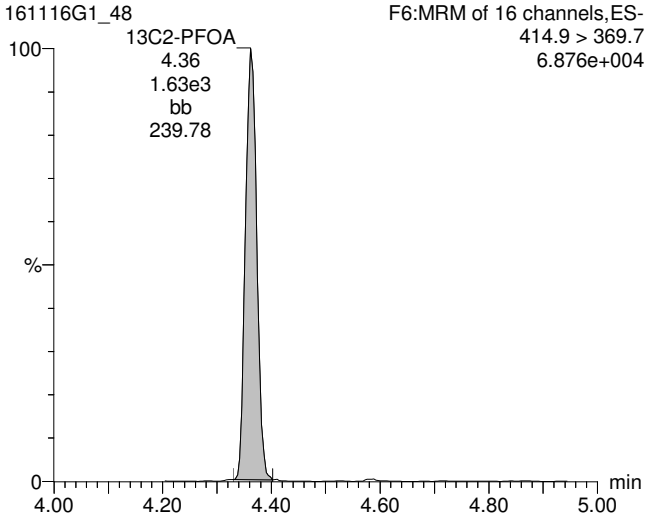
Total PFOS



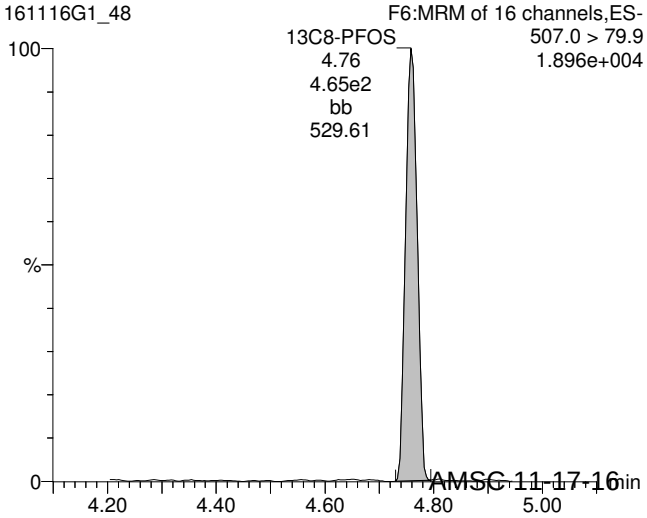
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

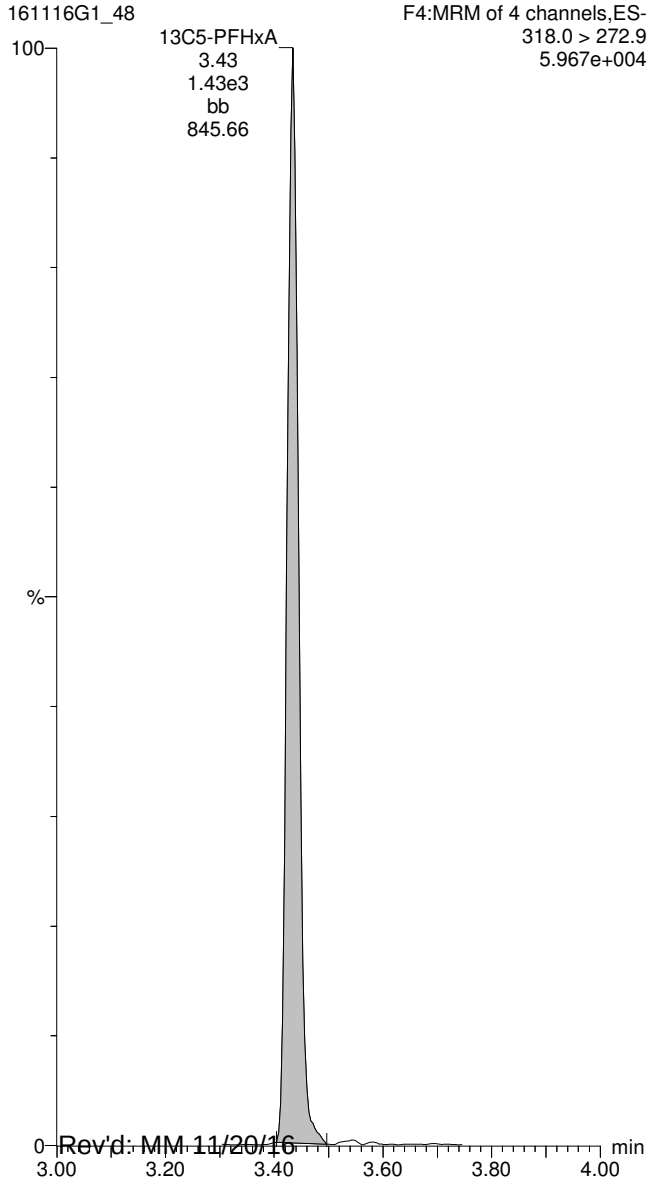
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-48.qld

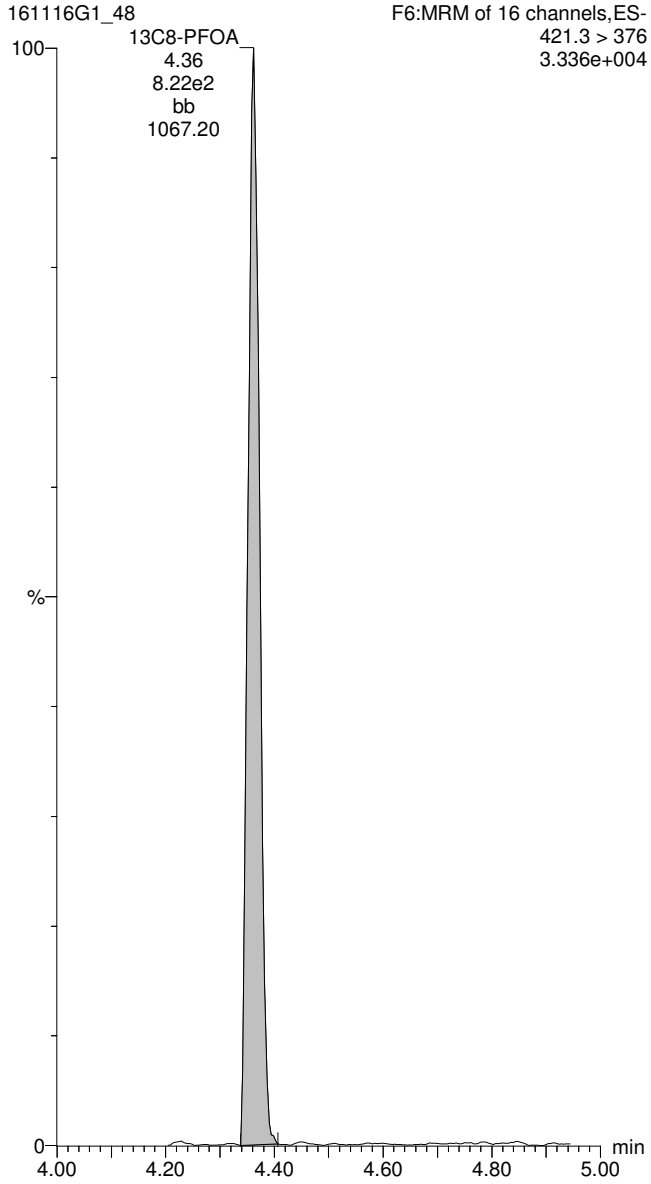
Last Altered: Thursday, November 17, 2016 10:59:16 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 10:59:30 AM Pacific Standard Time

ID: 1601360-05 EB-M10-01_161025 0.12742, Description: EB-M10-01_161025, Name: 161116G1_48, Date: 16-Nov-2016, Time: 20:44:13, Instrument: , Lab: , User:

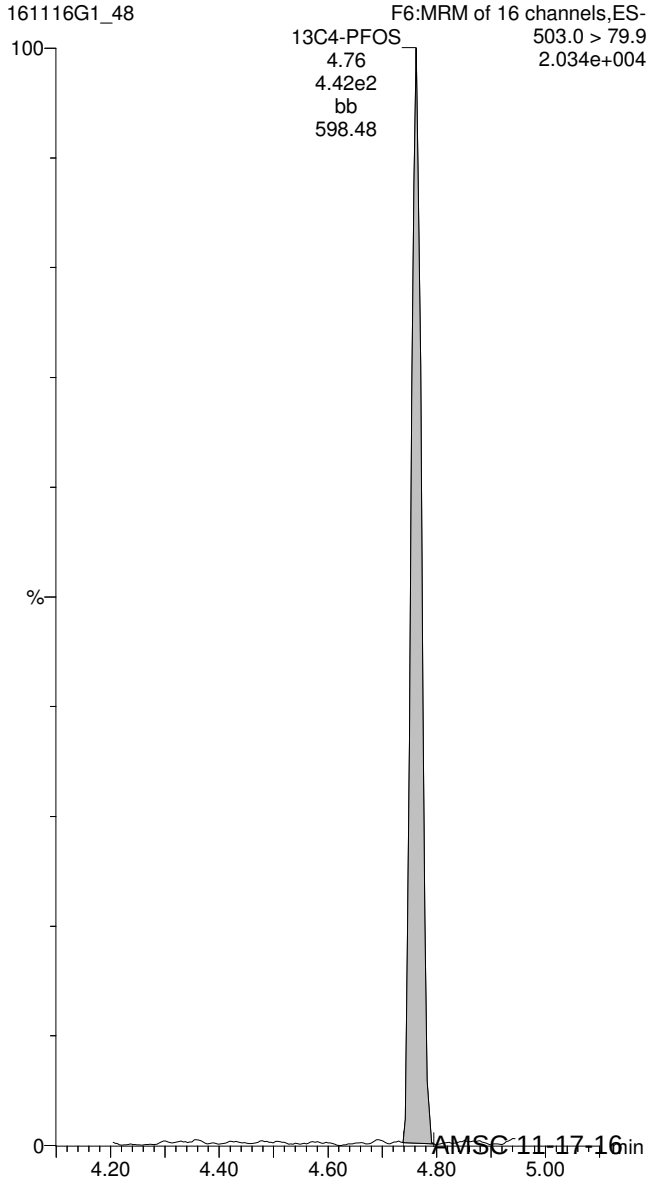
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-49.qld

Last Altered: Thursday, November 17, 2016 11:01:33 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 11:02:00 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-06 FB-M05-02_161025 0.1253, Description: FB-M05-02_161025, Name: 161116G1_49, Date: 16-Nov-2016, Time: 20:56:51

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7		6.943e3		0.125			
2	5	PFOA	413 > 368.7	2.702e2	2.477e4		0.125	4.36		
3	6	PFOS	499 >79.9		5.068e3		0.125			
4	9	13C3-PFBS	302.0 > 98.8	6.943e3	3.172e4	0.250	0.125	3.08	87.4	87.6
5	10	13C2-PFHxA	315 > 269.8	7.932e3	3.172e4	0.741	0.125	3.44	33.7	84.4
6	11	13C4-PFHpA	367.2 > 321.8	1.746e4	9.284e3	2.077	0.125	3.96	90.3	90.6
7	12	18O2-PFHxS	403 > 102.6	5.480e3	9.284e3	0.603	0.125	4.07	97.7	97.9
8	13	13C2-PFOA	414.9 > 369.7	2.477e4	1.133e4	2.438	0.125	4.36	89.5	89.7
9	14	13C8-PFOS	507.0 > 79.9	5.068e3	5.334e3	1.055	0.125	4.76	89.8	90.0
10	17	13C5-PFHxA	318.0 > 272.9	3.172e4	3.172e4	1.000	0.125	3.43	99.8	100
11	18	13C3-PFHxS	401.9 > 79.9	9.284e3	9.284e3	1.000	0.125	4.07	99.8	100
12	19	13C8-PFOA	421.3 > 376	1.133e4	1.133e4	1.000	0.125	4.36	99.8	100
13	20	13C4-PFOS	503.0 > 79.9	5.334e3	5.334e3	1.000	0.125	4.76	99.8	100
14	23	Total PFBS	299 > 79.7		6.943e3		0.125			
15	25	Total PFOA	413 > 368.7		2.477e4		0.125			
16	26	Total PFOS	499 > 79.9		5.068e3		0.125			

Vista Analytical Laboratory Q1

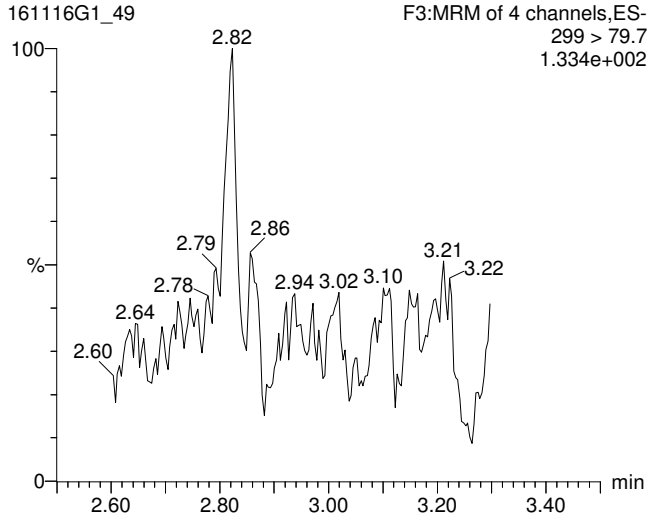
Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-49.qld

Last Altered: Thursday, November 17, 2016 11:01:33 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 11:02:00 AM Pacific Standard Time

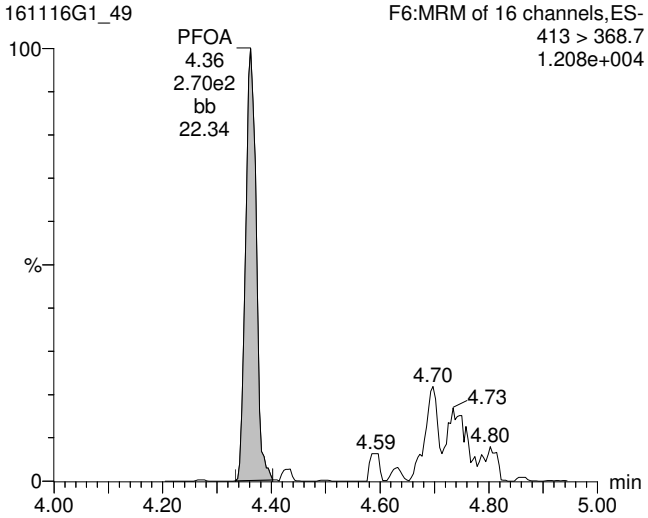
Method: U:\G1.pro\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-06 FB-M05-02_161025 0.1253, Description: FB-M05-02_161025, Name: 161116G1_49, Date: 16-Nov-2016, Time: 20:56:51, Instrument: , Lab: , User:

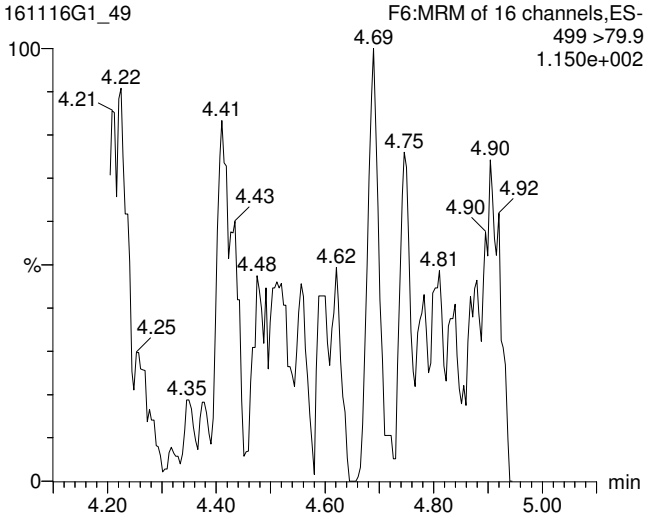
Total PFBS



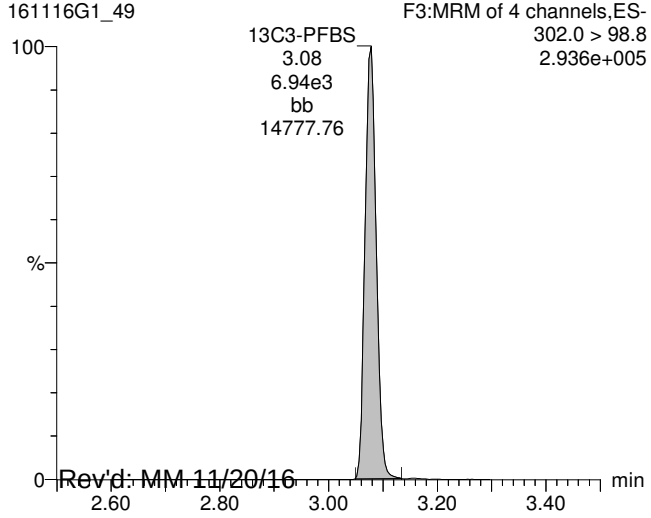
Total PFOA



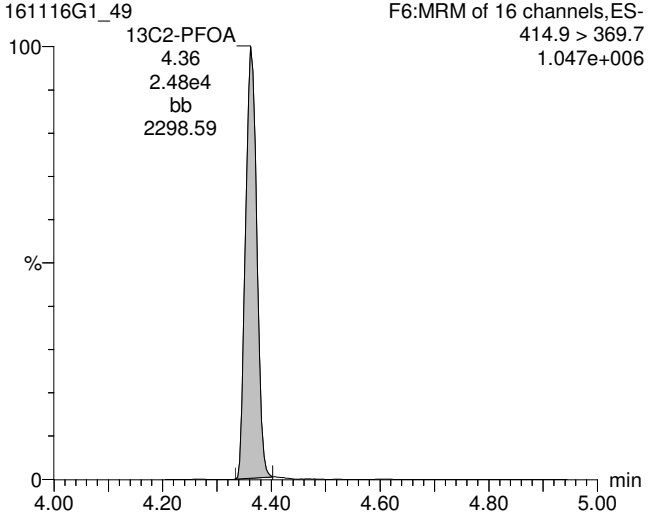
Total PFOS



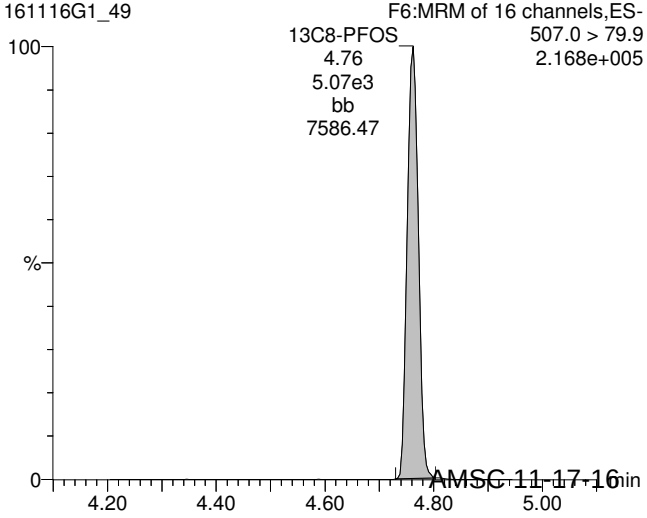
13C3-PFBS



13C2-PFOA



13C8-PFOS



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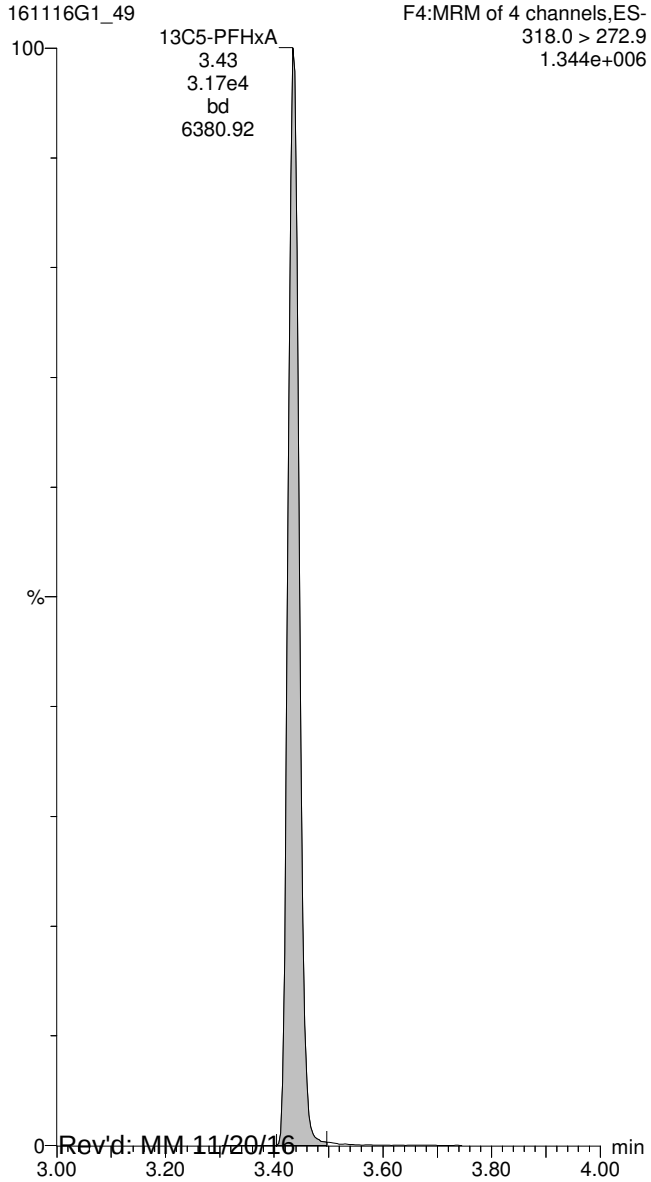
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-49.qld

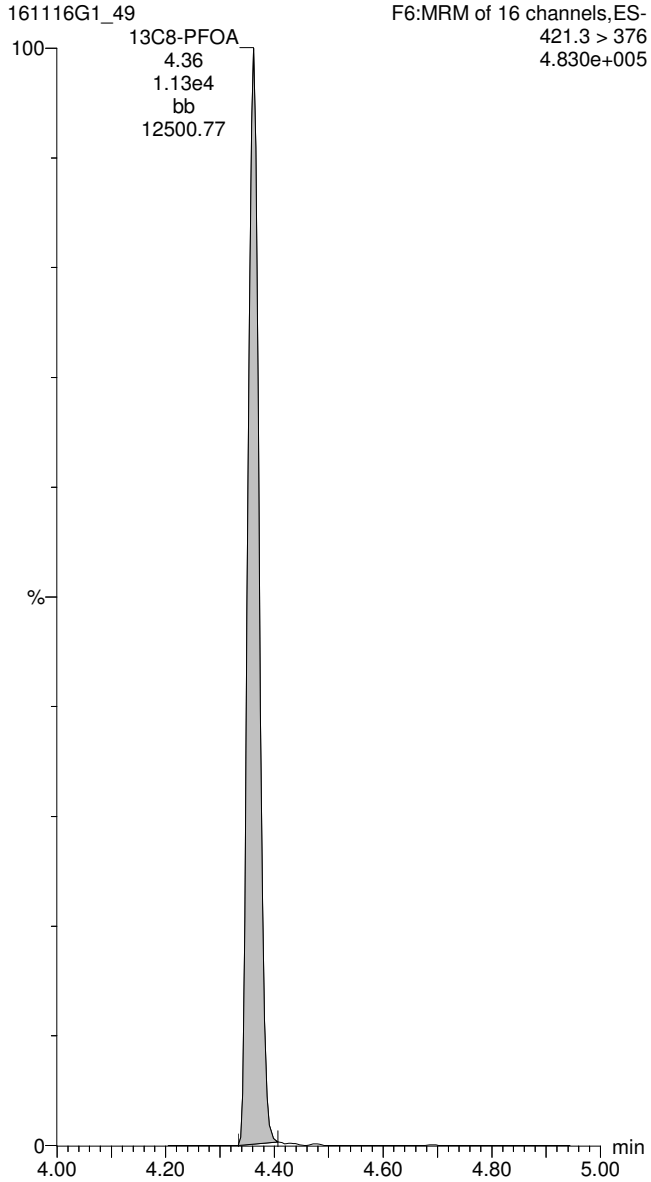
Last Altered: Thursday, November 17, 2016 11:01:33 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 11:02:00 AM Pacific Standard Time

ID: 1601360-06 FB-M05-02_161025 0.1253, Description: FB-M05-02_161025, Name: 161116G1_49, Date: 16-Nov-2016, Time: 20:56:51, Instrument: , Lab: , User:

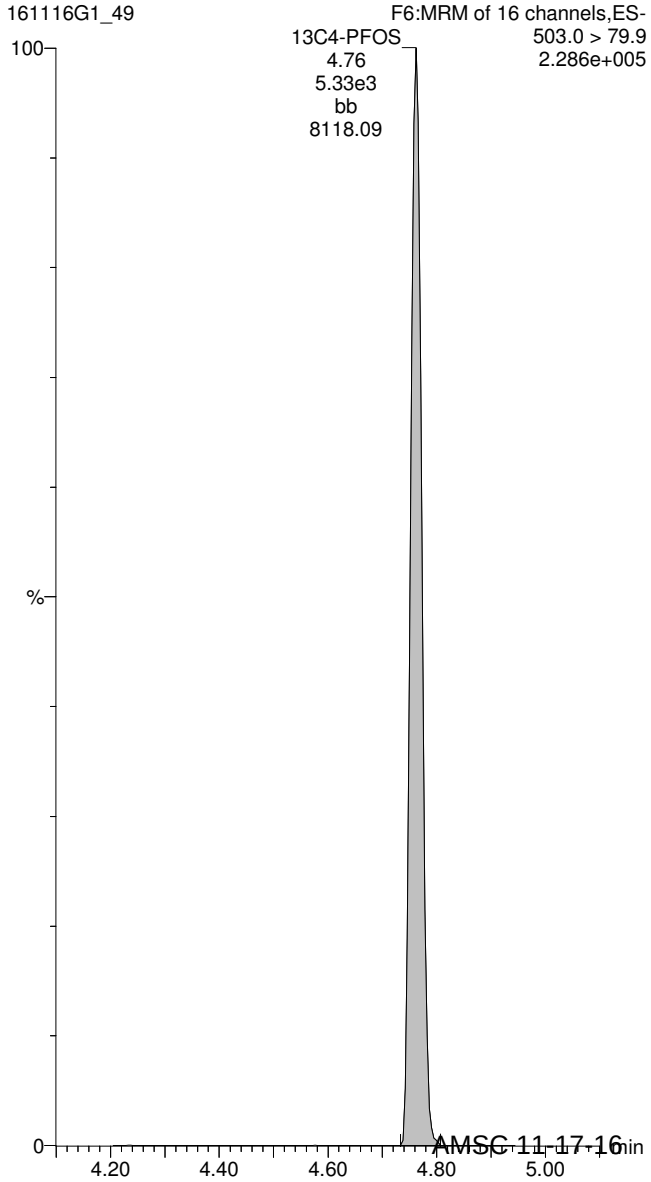
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-50.qld

Last Altered: Thursday, November 17, 2016 11:03:47 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 11:04:03 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-07 FB-M05-03_161025 0.12885, Description: FB-M05-03_161025, Name: 161116G1_50, Date: 16-Nov-2016, Time: 21:09:26

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7		6.912e3		0.129			
2	5	PFOA	413 > 368.7	2.568e2	2.711e4		0.129	4.36		
3	6	PFOS	499 >79.9		5.090e3		0.129			
4	9	13C3-PFBS	302.0 > 98.8	6.912e3	3.323e4	0.250	0.129	3.08	80.8	83.3
5	10	13C2-PFHxA	315 > 269.8	8.309e3	3.323e4	0.741	0.129	3.44	32.7	84.3
6	11	13C4-PFHpA	367.2 > 321.8	1.937e4	9.862e3	2.077	0.129	3.96	91.7	94.6
7	12	18O2-PFHxS	403 > 102.6	6.113e3	9.862e3	0.603	0.129	4.07	99.8	103
8	13	13C2-PFOA	414.9 > 369.7	2.711e4	1.212e4	2.438	0.129	4.36	89.0	91.7
9	14	13C8-PFOS	507.0 > 79.9	5.090e3	5.016e3	1.055	0.129	4.76	93.3	96.1
10	17	13C5-PFHxA	318.0 > 272.9	3.323e4	3.323e4	1.000	0.129	3.44	97.0	100
11	18	13C3-PFHxS	401.9 > 79.9	9.862e3	9.862e3	1.000	0.129	4.07	97.0	100
12	19	13C8-PFOA	421.3 > 376	1.212e4	1.212e4	1.000	0.129	4.36	97.0	100
13	20	13C4-PFOS	503.0 > 79.9	5.016e3	5.016e3	1.000	0.129	4.76	97.0	100
14	23	Total PFBS	299 > 79.7		6.912e3		0.129			
15	25	Total PFOA	413 > 368.7		2.711e4		0.129			
16	26	Total PFOS	499 > 79.9		5.090e3		0.129			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-50.qld

Last Altered: Thursday, November 17, 2016 11:03:47 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 11:04:03 AM Pacific Standard Time

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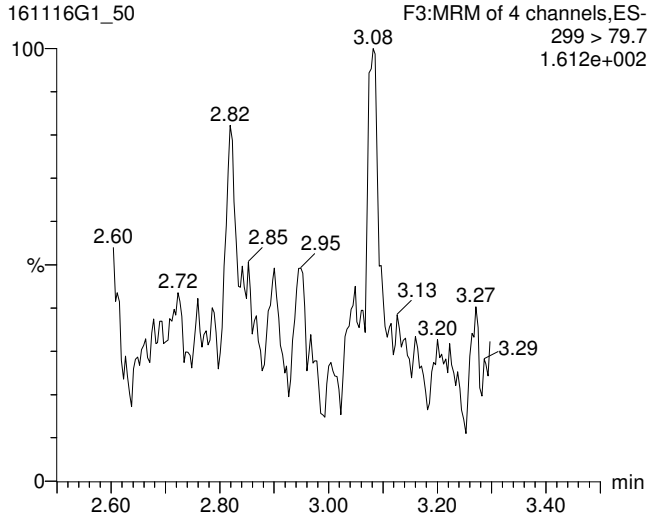
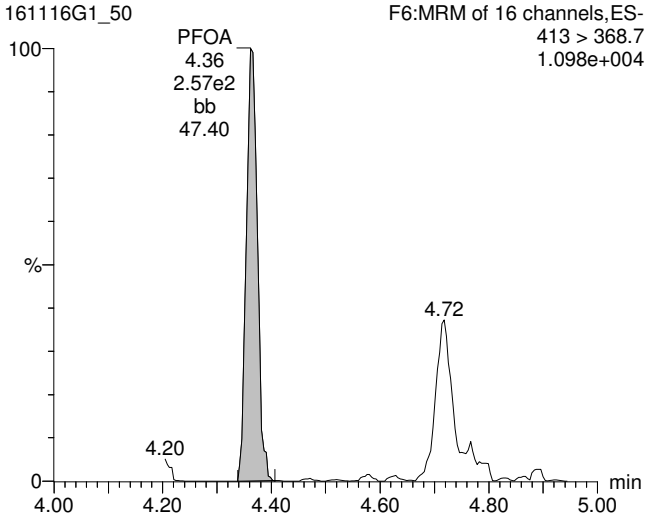
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-07 FB-M05-03_161025 0.12885, Description: FB-M05-03_161025, Name: 161116G1_50, Date: 16-Nov-2016, Time: 21:09:26, Instrument: , Lab: , User:

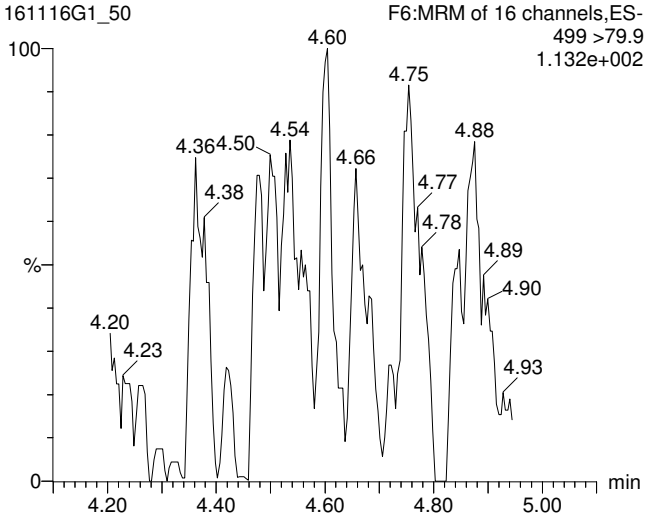
Total PFBS



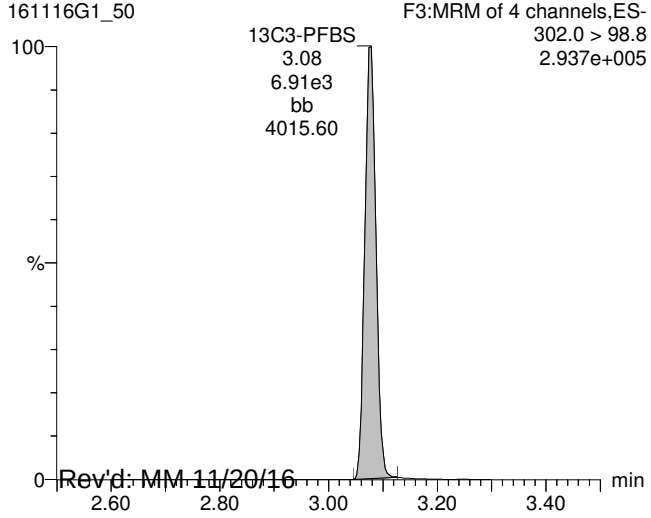
Total PFOA



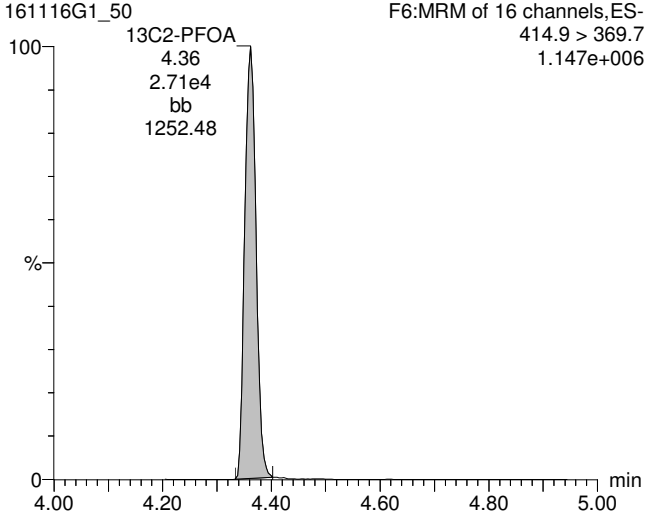
Total PFOS



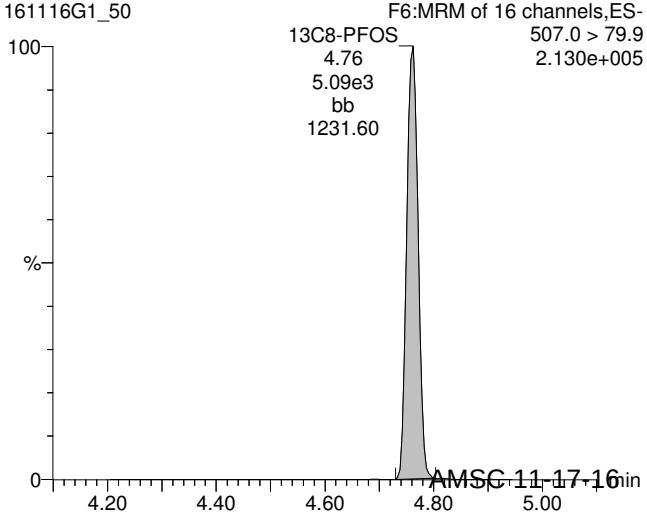
13C3-PFBS



13C2-PFOA



13C8-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

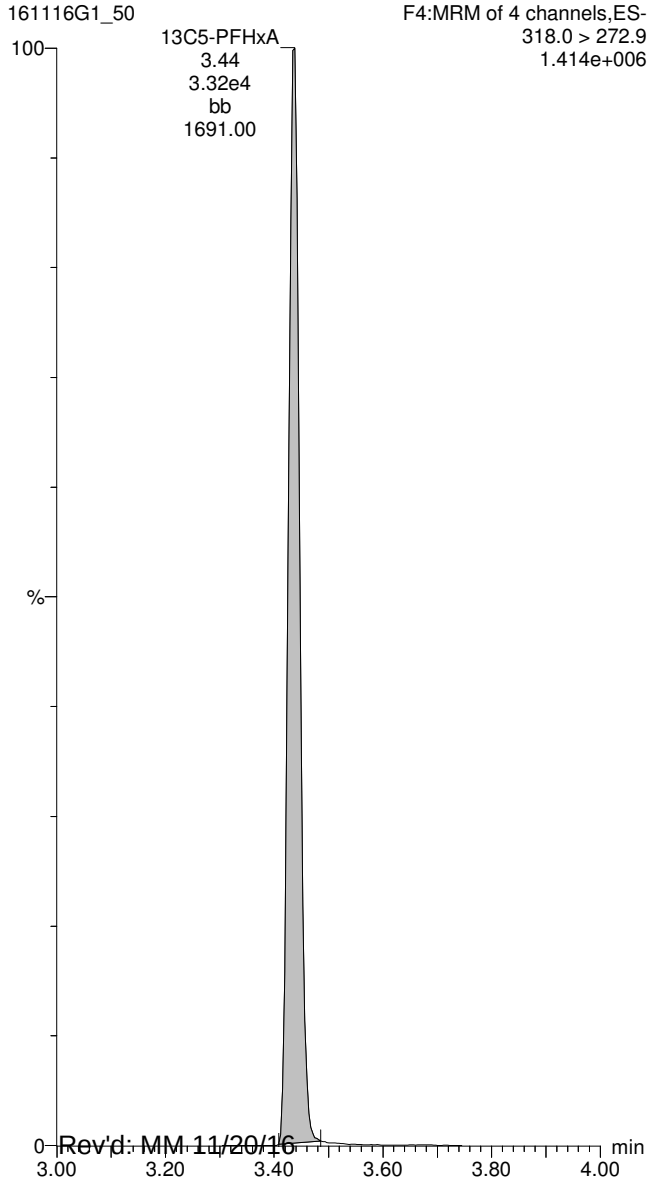
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-50.qld

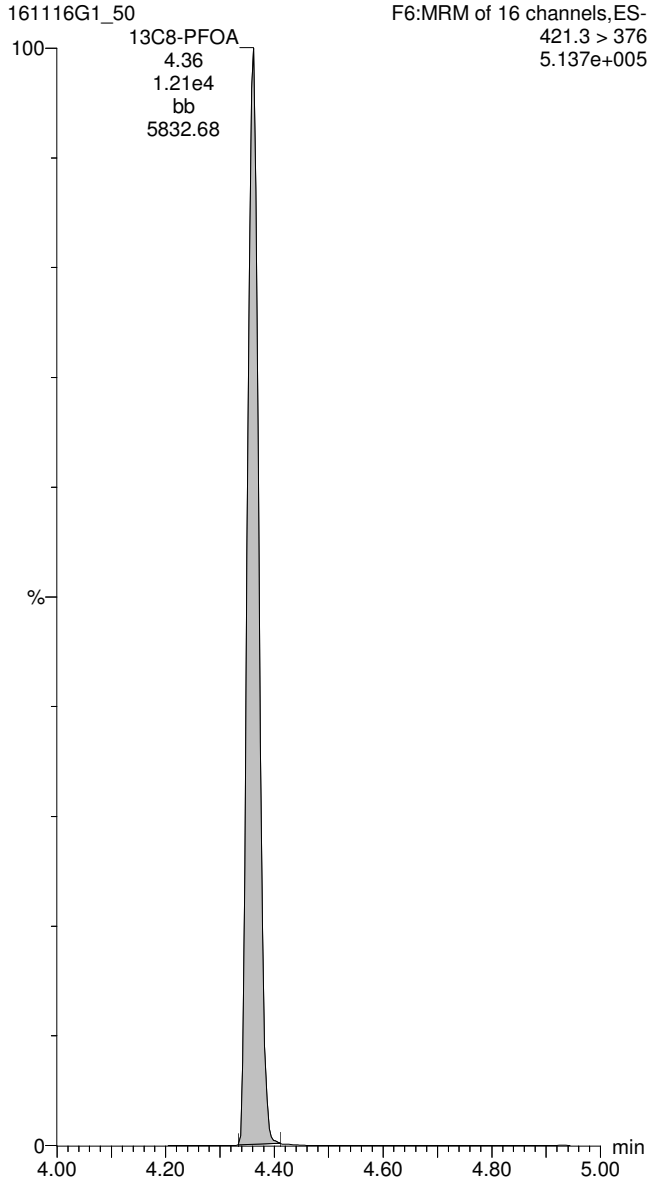
Last Altered: Thursday, November 17, 2016 11:03:47 AM Pacific Standard Time
Printed: Thursday, November 17, 2016 11:04:03 AM Pacific Standard Time

ID: 1601360-07 FB-M05-03_161025 0.12885, Description: FB-M05-03_161025, Name: 161116G1_50, Date: 16-Nov-2016, Time: 21:09:26, Instrument: , Lab: , User:

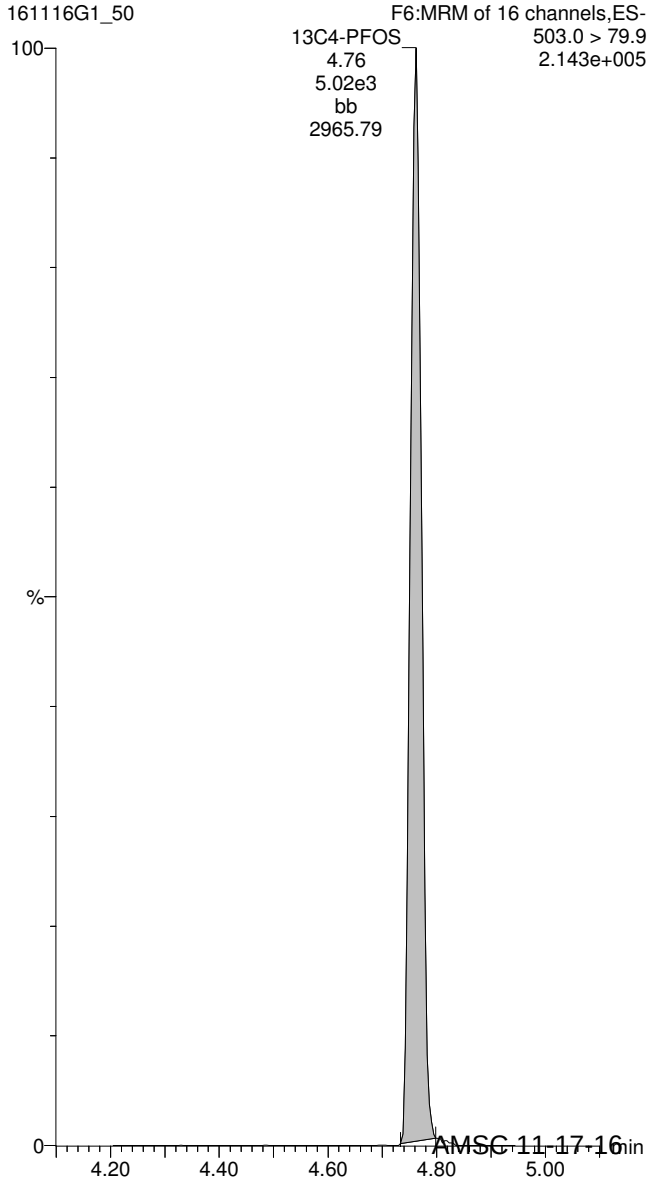
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/20/16 AMSC 11-17-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-51.qld

Last Altered: Thursday, November 17, 2016 11:06:07 Pacific Standard Time
Printed: Sunday, November 20, 2016 11:00:53 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-08 FB-M10-01_161025 0.12514, Description: FB-M10-01_161025, Name: 161116G1_51, Date: 16-Nov-2016, Time: 21:22:01

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7		1.050e2		0.125			
2	5	PFOA	413 > 368.7		4.236e2		0.125			
3	6	PFOS	499 >79.9		1.721e2		0.125			
4	9	13C3-PFBS	302.0 > 98.8	1.050e2	4.613e2	0.250	0.125	3.08	91.0	91.1
5	13	13C2-PFOA	414.9 > 369.7	4.236e2	1.707e2	2.438	0.125	4.37	102	102
6	14	13C8-PFOS	507.0 > 79.9	1.721e2	1.407e2	1.055	0.125	4.76	116	116
7	17	13C5-PFHxA	318.0 > 272.9	4.613e2	4.613e2	1.000	0.125	3.43	99.9	100
8	18	13C3-PFHxS	401.9 > 79.9	1.748e2	1.748e2	1.000	0.125	4.08	99.9	100
9	19	13C8-PFOA	421.3 > 376	1.707e2	1.707e2	1.000	0.125	4.37	99.9	100
10	20	13C4-PFOS	503.0 > 79.9	1.407e2	1.407e2	1.000	0.125	4.76	99.9	100
11	21	13C9-PFNA	472.2 > 426.9	1.855e2	1.855e2	1.000	0.125	4.70	99.9	100
12	22	13C6-PFDA	519.1 > 473.7	3.946e2	3.946e2	1.000	0.125	5.01	99.9	100
13	23	Total PFBS	299 > 79.7		1.050e2		0.125			
14	25	Total PFOA	413 > 368.7		4.236e2		0.125			
15	26	Total PFOS	499 > 79.9		1.721e2		0.125			

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Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-51.qld

Last Altered: Thursday, November 17, 2016 11:06:07 Pacific Standard Time
Printed: Sunday, November 20, 2016 11:00:53 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-08 FB-M10-01_161025 0.12514, Description: FB-M10-01_161025, Name: 161116G1_51, Date: 16-Nov-2016, Time: 21:22:01

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

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Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-51.qld

Last Altered: Thursday, November 17, 2016 11:06:07 Pacific Standard Time
Printed: Sunday, November 20, 2016 11:00:53 Pacific Standard Time

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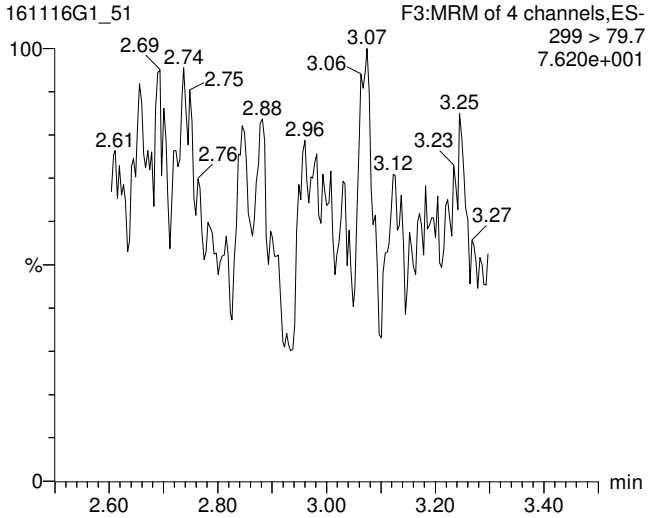
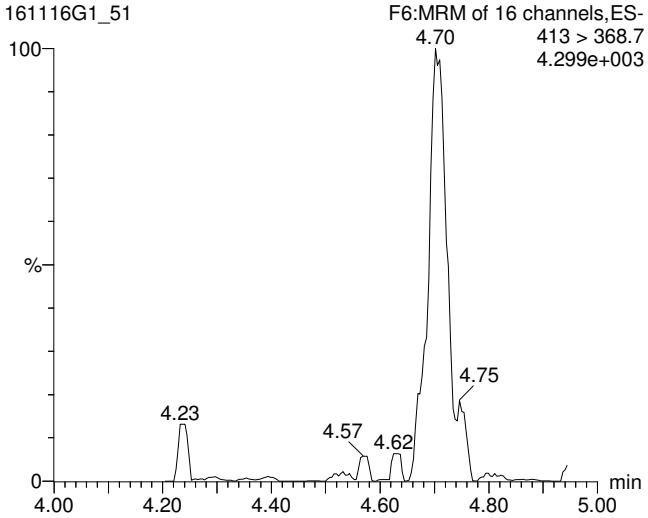
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

ID: 1601360-08 FB-M10-01_161025 0.12514, Description: FB-M10-01_161025, Name: 161116G1_51, Date: 16-Nov-2016, Time: 21:22:01, Instrument: , Lab: , User:

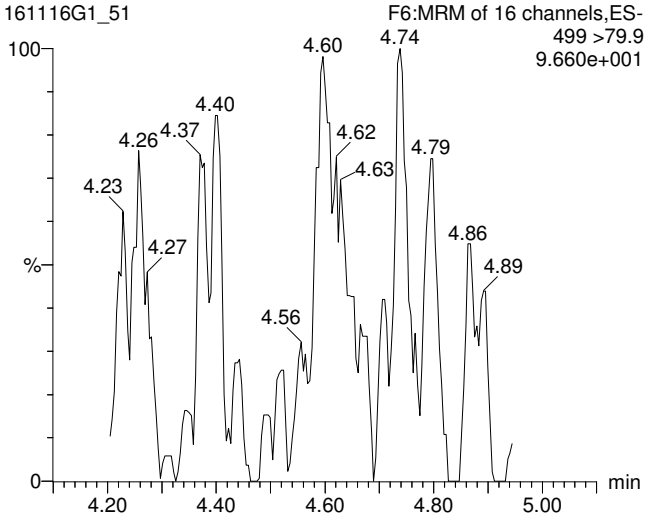
Total PFBS



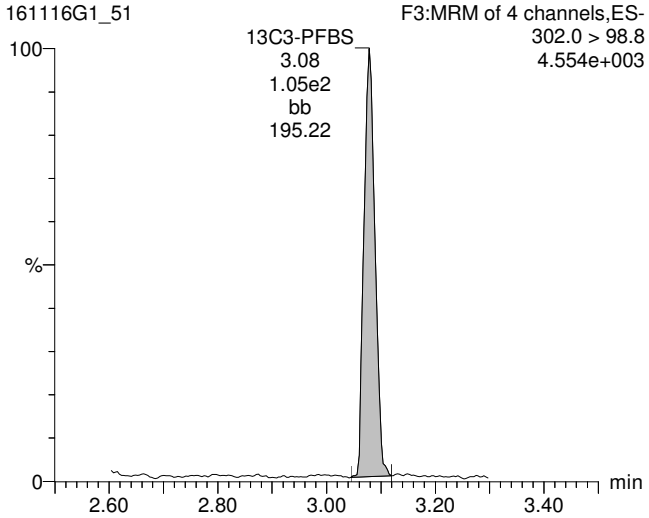
Total PFOA



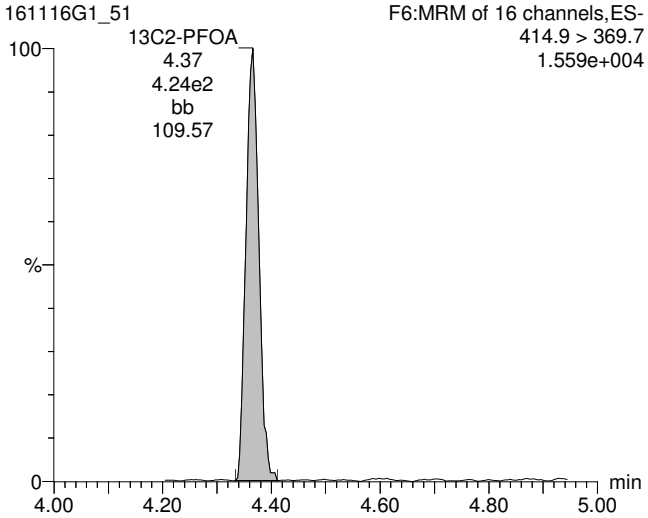
Total PFOS



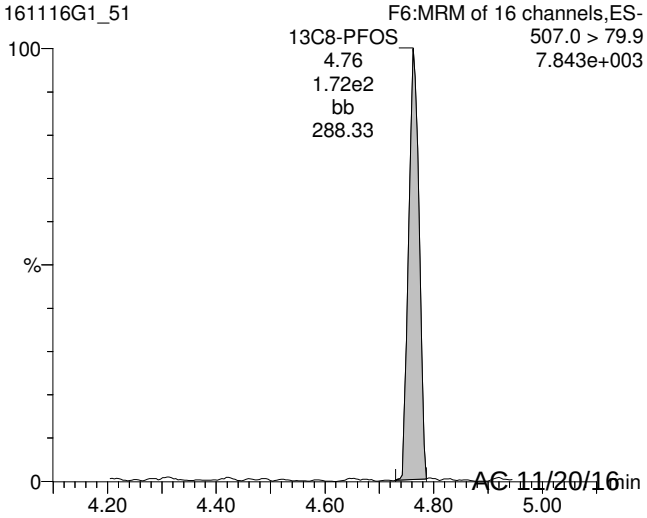
13C3-PFBS



13C2-PFOA



13C8-PFOS



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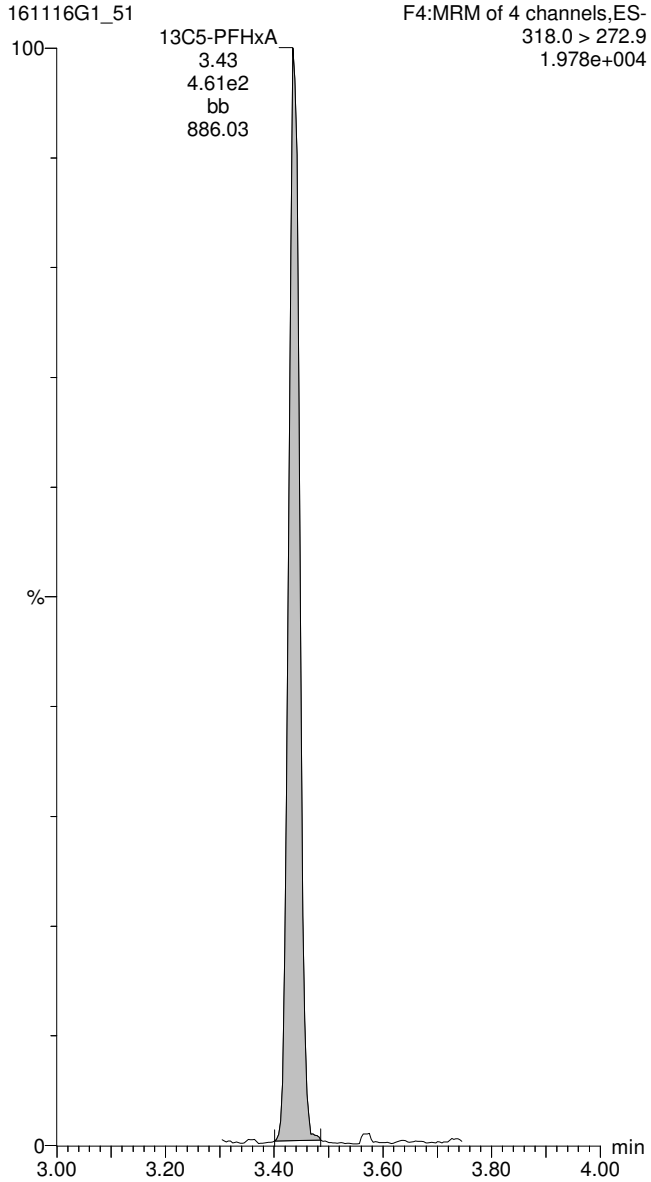
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-51.qld

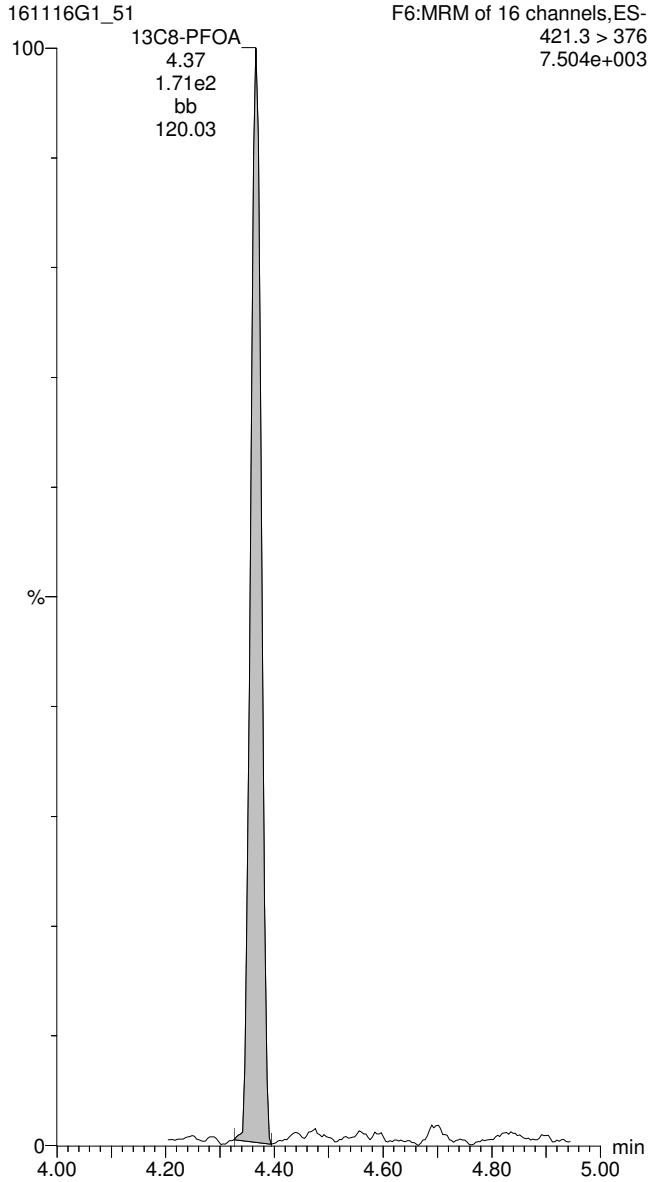
Last Altered: Thursday, November 17, 2016 11:06:07 Pacific Standard Time
Printed: Sunday, November 20, 2016 11:00:53 Pacific Standard Time

ID: 1601360-08 FB-M10-01_161025 0.12514, Description: FB-M10-01_161025, Name: 161116G1_51, Date: 16-Nov-2016, Time: 21:22:01, Instrument: , Lab: , User:

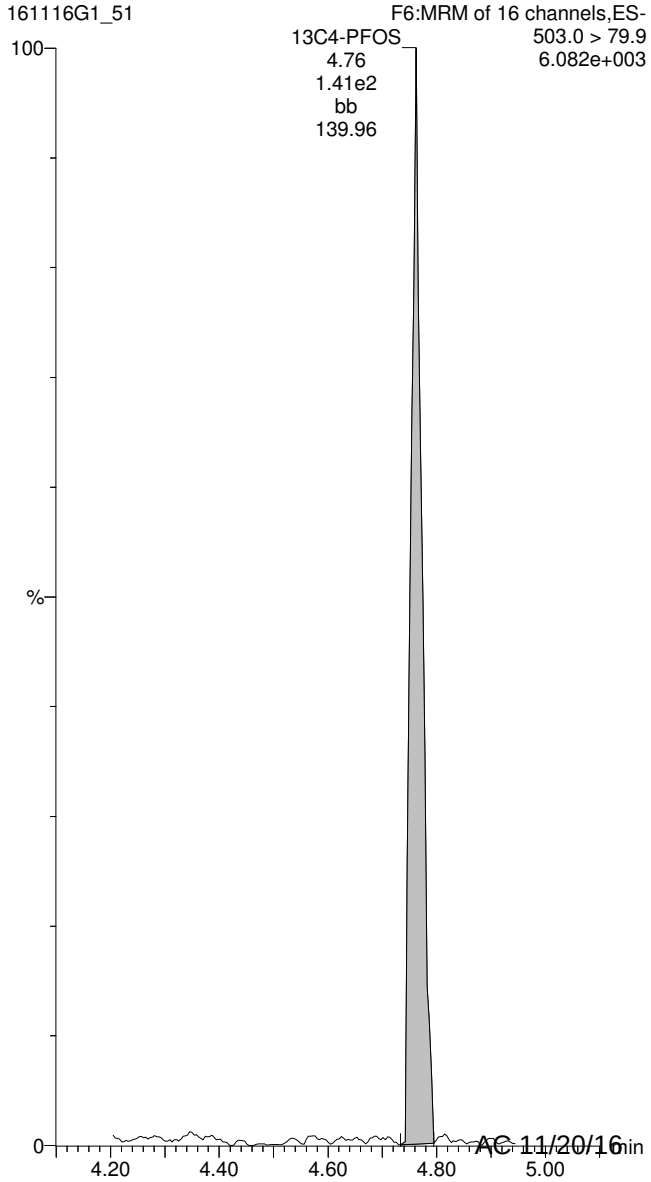
13C5-PFHxA



13C8-PFOA



13C4-PFOS



AC 11/20/16

CONTINUING CALIBRATION

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_34.qld

Last Altered: Thursday, November 10, 2016 11:54:27 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:55:04 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Name: 161109J3_34.wiff, Date: 09-Nov-2016, Time: 21:38:54, ID: ST161109J2-11 PFC C3.5 16K0713, Description: PFC C3.5 16K0713 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.28e4	1.10e4		1.000	2.00	25.2	100.7	75-125
2	2	PFPeA	218.90	2.22e4	1.19e4		1.000	3.17	25.7	102.7	
3	3	PFBS	79.90	1.17e4	7.14e3		1.000	3.46	24.5	98.1	
4	4	PFHxA	268.90	1.88e4	4.48e3		1.000	3.84	25.3	101.3	
5	5	PFHpA	318.90	1.58e4	9.57e3		1.000	4.33	23.2	92.7	
6	6	PFHxS	79.91	8.98e3	1.41e3		1.000	4.44	24.5	98.2	
7	7	6:2 FTS	406.90	3.89e3	2.21e3		1.000	4.68	21.8	87.1	
8	8	PFOA	368.90	2.01e4	7.91e3		1.000	4.72	27.9	111.7	
9	9	PFNA	419.00	1.92e4	9.30e3		1.000	5.05	27.9	111.8	
10	10	PFOS	79.92	9.16e3	4.15e3		1.000	5.11	23.7	94.7	
11	11	PFDA	469.00	8.74e3	4.22e3		1.000	5.34	23.9	95.5	
12	12	8:2 FTS	506.90	2.28e3	1.13e3		1.000	5.31	26.1	104.4	
13	13	13C3-PFBA	172.00	1.10e4	1.15e4	0.875	1.000	2.00	13.7	109.2	60-150
14	14	13C3-PFPeA	221.90	1.19e4	1.13e4	0.956	1.000	3.17	13.8	110.3	
15	15	13C3-PFBS	79.95	7.14e3	1.13e4	0.570	1.000	3.45	13.8	110.7	
16	16	13C2-PFHxA	269.90	4.48e3	1.13e4	0.896	1.000	3.84	5.52	110.5	
17	17	13C4-PFHpA	321.90	9.57e3	1.13e4	0.754	1.000	4.33	14.0	112.2	
18	18	18O2-PFHxS	102.90	1.41e3	4.92e3	0.267	1.000	4.44	13.4	106.9	
19	19	13C2-6:2 FTS	408.90	2.21e3	1.17e4	0.193	1.000	4.68	12.3	98.2	40-150
20	20	13C2-PFOA	369.90	7.91e3	1.17e4	0.646	1.000	4.72	13.1	105.0	60-150
21	21	13C5-PFNA	422.90	9.30e3	8.81e3	0.972	1.000	5.05	13.6	108.6	50-150
22	22	13C8-PFOS	79.93	4.15e3	4.10e3	0.922	1.000	5.11	13.7	109.6	60-150
23	23	13C2-PFDA	470.00	4.22e3	4.88e3	0.846	1.000	5.33	12.8	102.2	
24	24	13C2-8:2 FTS	508.70	1.13e3	4.88e3	0.257	1.000	5.31	11.2	90.0	40-150
25	25	13C4-PFBA	171.90	1.15e4	1.15e4	1.000	1.000	2.00	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.13e4	1.13e4	1.000	1.000	3.84	12.5	100.0	
27	27	13C3-PFHxS	80.01	4.92e3	4.92e3	1.000	1.000	4.44	12.5	100.0	
28	28	13C8-PFOA	375.90	1.17e4	1.17e4	1.000	1.000	4.72	12.5	100.0	
29	29	13C4-PFOS	79.94	4.10e3	4.10e3	1.000	1.000	5.11	12.5	100.0	
30	30	13C9-PFNA	427.00	8.81e3	8.81e3	1.000	1.000	5.05	12.5	100.0	
31	31	13C6-PFDA	474.00	4.88e3	4.88e3	1.000	1.000	5.33	12.5	100.0	

AH
11/10/16

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_34.qld

Last Altered: Thursday, November 10, 2016 11:54:27 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:55:04 Pacific Standard Time

Name: 161109J3_34.wiff, Date: 09-Nov-2016, Time: 21:38:54, ID: ST161109J2-11 PFC C3.5 16K0713, Description: PFC C3.5 16K0713 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32	Total PFBS	79.90		7.14e3		1.000		24.5	
33	33	Total PFHxS	79.91		1.41e3		1.000		24.5	
34	34	Total PFOA	368.90		7.91e3		1.000		27.9	
35	35	Total PFOS	79.92		4.15e3		1.000		23.7	

Printing Time: 11:55:39
Printing Date: Thursday, November 10, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161109J3_01	11/9/2016 14:55:03	IPA	IPA
2	161109J3_02	11/9/2016 15:07:18	ST161109J3-1 PFC CS(-2)16K0901	PFC CS(-2)16K0901 A
3	161109J3_03	11/9/2016 15:19:31	ST161109J3-2 PFC CS(-1)16K0902	PFC CS(-1)16K0902 A
4	161109J3_04	11/9/2016 15:31:45	ST161109J3-3 PFC CS0 16K0903	PFC CS0 160903 A
5	161109J3_05	11/9/2016 15:43:56	ST161109J3-4 PFC CS1 16K0904	PFC CS1 16K0904 A
6	161109J3_06	11/9/2016 15:56:10	ST161109J3-5PFC CS2 16K0806	PFC CS2 16K0806 A
7	161109J3_07	11/9/2016 16:08:26	ST161109J3-6 PFC CS3 16K0807	PFC CS3 16K0807 A
8	161109J3_08	11/9/2016 16:20:38	ST161109J3-7 PFC C3.5 16K0808	PFC C3.5 16K0808 A
9	161109J3_09	11/9/2016 16:32:53	ST161109J3-8 PFC CS4 16K0925	PFC CS4 16K0925 A
10	161109J3_10	11/9/2016 16:45:09	ST161109J3-9 PFC CS4.5 16K0926	PFC CS4.5 16K0926 A
11	161109J3_11	11/9/2016 16:57:21	ST161109J3-10 PFC CS5 16K0927	PFC CS5 16K0927 A
12	161109J3_12	11/9/2016 17:09:35	IPA	IPA
13	161109J3_13	11/9/2016 17:21:50	SS161109J3-1 PFC SSS 16J1810	PFC SSS 16J1810 A
14	161109J3_14	11/9/2016 17:34:01	IPA	IPA
15	161109J3_15	11/9/2016 17:46:18	B6K0029-BS1	OPR
16	161109J3_16	11/9/2016 17:58:33	B6K0034-BS1	OPR
17	161109J3_17	11/9/2016 18:10:47	B6K0034-BSD1	LCS Dup
18	161109J3_18	11/9/2016 18:23:01	IPA	IPA
19	161109J3_19	11/9/2016 18:35:16	B6K0029-BLK1	Method Blank
20	161109J3_20	11/9/2016 18:47:31	B6K0034-BLK1	Method Blank
21	161109J3_21	11/9/2016 18:59:45	1601348-01	EB-M06-02_161024
22	161109J3_22	11/9/2016 19:12:00	1601348-02	EB-M06-04_161024
23	161109J3_23	11/9/2016 19:24:14	1601348-03	EB-S6-MW06_161024
24	161109J3_24	11/9/2016 19:36:29	1601372-12	AT028-TW-12-102516
25	161109J3_25	11/9/2016 19:48:41	1601372-13	AT028-TW-13-102516
26	161109J3_26	11/9/2016 20:00:56	1601372-14	AT028-TW-11-102516
27	161109J3_27	11/9/2016 20:13:12	1601372-16	AT028-FD-01-102516
28	161109J3_28	11/9/2016 20:25:27	1601372-17	AT028-TW-14-102616
29	161109J3_29	11/9/2016 20:37:43	1601356-02RE1	AFFF-FFTA-MW-46-102116
30	161109J3_30	11/9/2016 20:49:56	1601356-20RE1	AFFF-FFTA-MW-109B-102116
31	161109J3_31	11/9/2016 21:02:11	B6K0020-MS1	Matrix Spike
32	161109J3_32	11/9/2016 21:14:26	B6K0020-MSD1	Matrix Spike Dup
33	161109J3_33	11/9/2016 21:26:38	IPA	IPA
34	161109J3_34	11/9/2016 21:38:54	ST161109J2-11 PFC C3.5 16K0713	PFC C3.5 16K0713 A
35	161109J3_35	11/9/2016 21:51:10	IPA	IPA
36	161109J3_36	11/9/2016 22:03:24	1601360-01	EB12_161025
37	161109J3_37	11/9/2016 22:15:39	1601360-09	M05-02_161025
38	161109J3_38	11/9/2016 22:27:52	1601360-10	M05-03_161025
39	161109J3_39	11/9/2016 22:40:06	1601360-11	M10-01_161025
40	161109J3_40	11/9/2016 22:52:17	1601365-01	RW-NRES004-10252016
41	161109J3_41	11/9/2016 23:04:33	1601365-03	RW-NRES031-10252016
42	161109J3_42	11/9/2016 23:16:48	1601365-05	RW-FD-10252016
43	161109J3_43	11/9/2016 23:29:04	1601365-06	SW-NRES031-10252016
44 (A)	161109J3_44	11/9/2016 23:41:18	1601365-08	SW-NRES032-10252016

(A) No end Std, power outage stopped run

PW 11/10/16

Page 1 of 1

LC Calibration Standards Review Checklist Q2

			ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manaul Integrations	NA
Calibration ID:	ST161109J3-11	L (M) H	NA ☑	☑	☑	☑	☑	☑	☑
Calibration ID:		~~L (M) H~~	☑ PW 11/10/16	☐	☐	☐	☐	☐	☐
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: 10/14/16

Comments:
PFC List 18A

Reviewed By: AC 11/10/16
Initials/Date

Vista Analytical Laboratory Q2

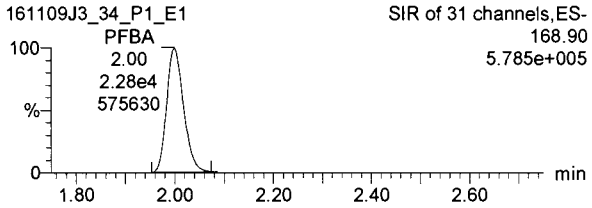
Dataset: U:\Q2.PRO\Results\161109J3\161109J3_34.qld

Last Altered: Thursday, November 10, 2016 11:54:27 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:55:20 Pacific Standard Time

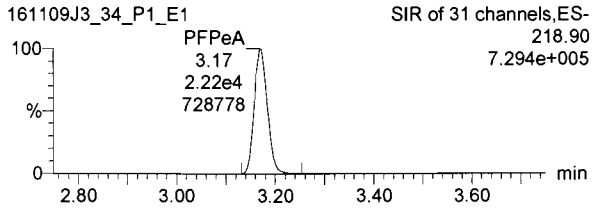
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Name: 161109J3_34.wiff, Date: 09-Nov-2016, Time: 21:38:54, ID: ST161109J2-11 PFC C3.5 16K0713, Description: PFC C3.5 16K0713 A

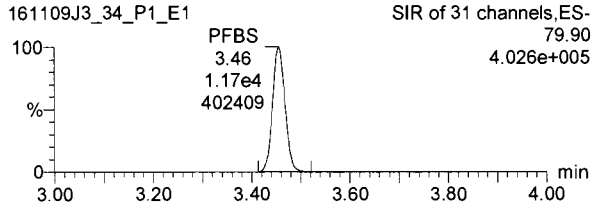
PFBA



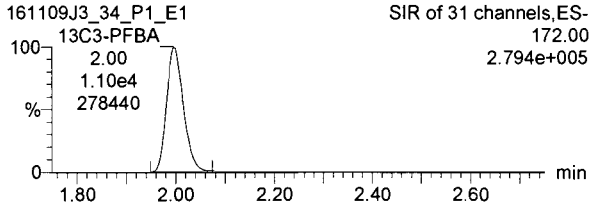
PFPeA



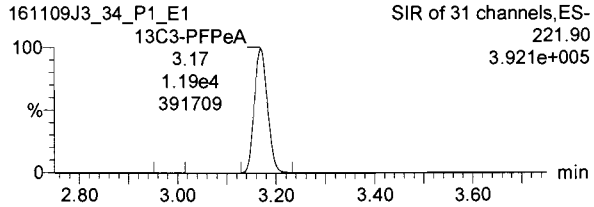
PFBS



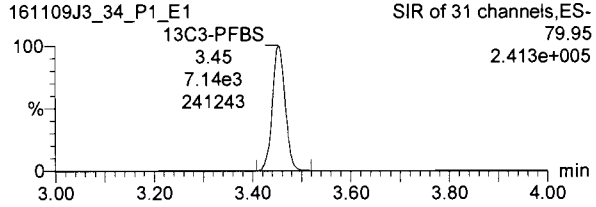
13C3-PFBA



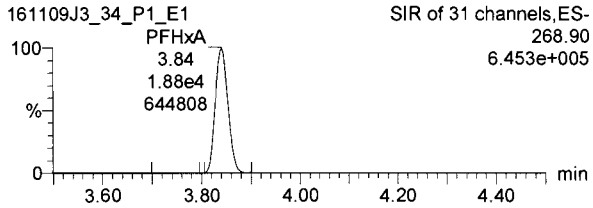
13C3-PFPeA



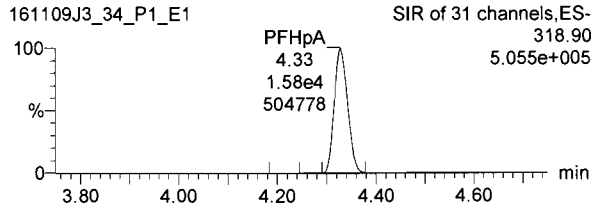
13C3-PFBS



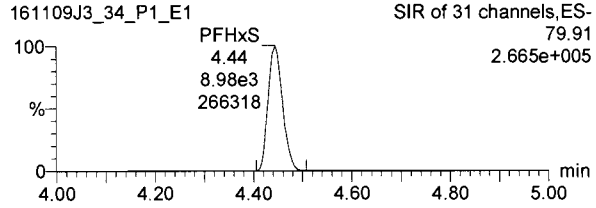
PFHxA



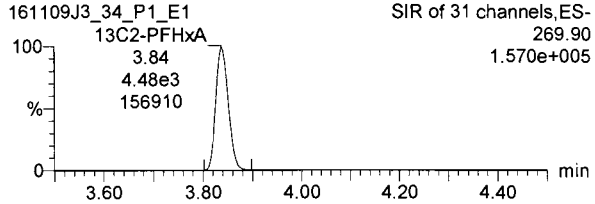
PFHpA



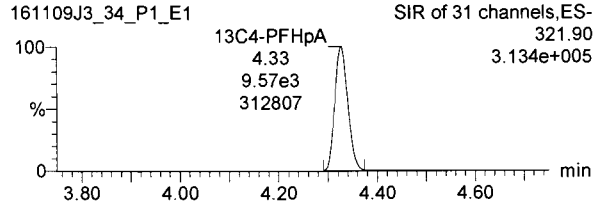
PFHxS



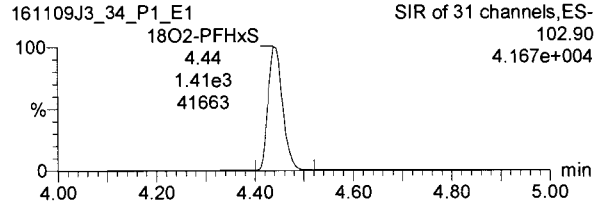
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

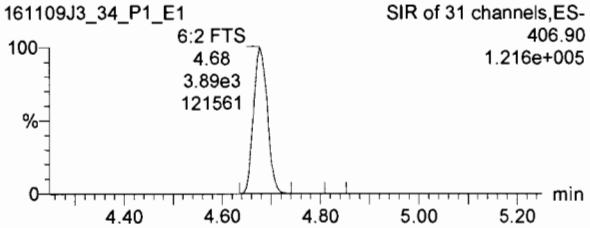


Dataset: U:\Q2.PRO\Results\161109J3\161109J3_34.qld

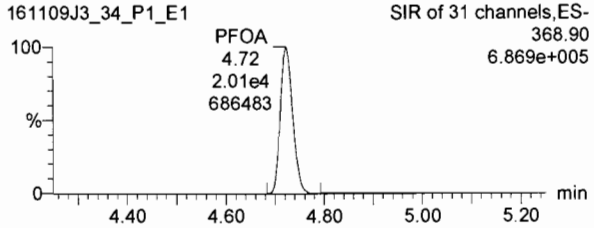
Last Altered: Thursday, November 10, 2016 11:54:27 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:55:20 Pacific Standard Time

Name: 161109J3_34.wiff, Date: 09-Nov-2016, Time: 21:38:54, ID: ST161109J2-11 PFC C3.5 16K0713, Description: PFC C3.5 16K0713 A

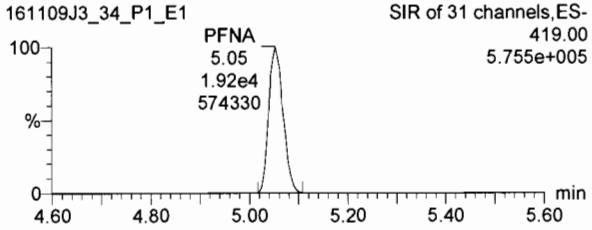
6:2 FTS



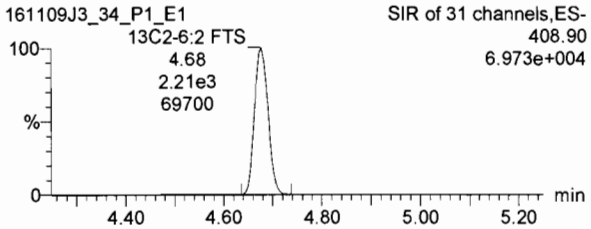
PFOA



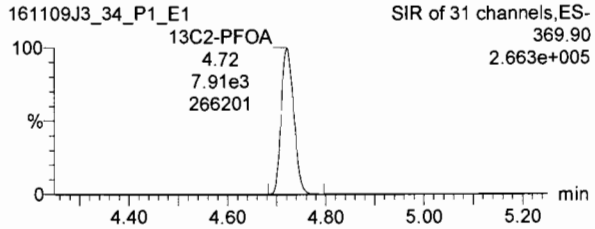
PFNA



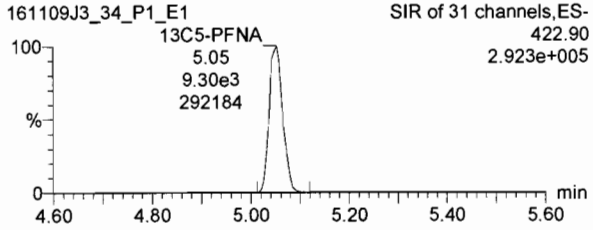
13C2-6:2 FTS



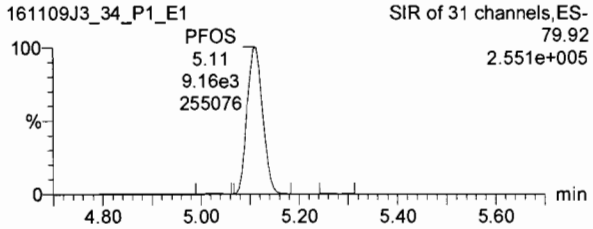
13C2-PFOA



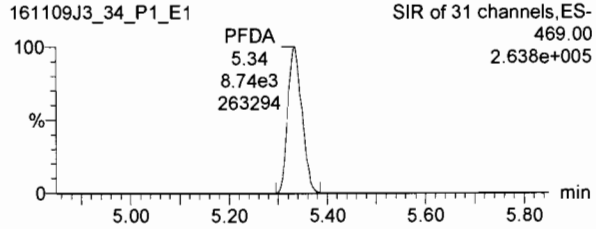
13C5-PFNA



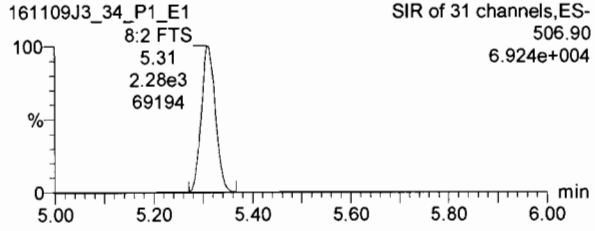
PFOS



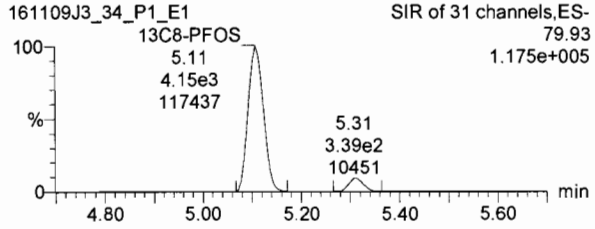
PFDA



8:2 FTS



13C8-PFOS



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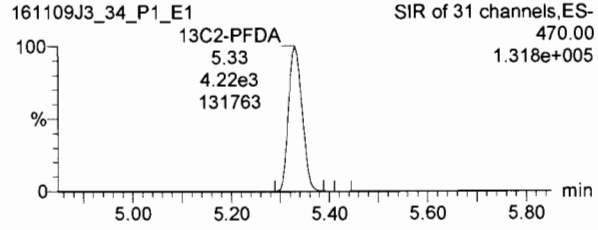
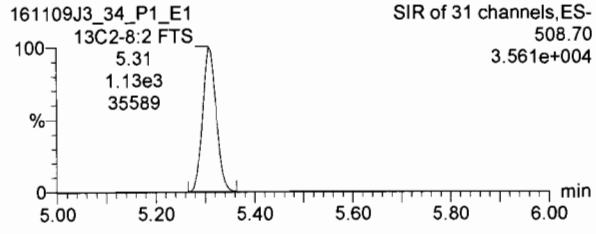


13C2-8:2 FTS



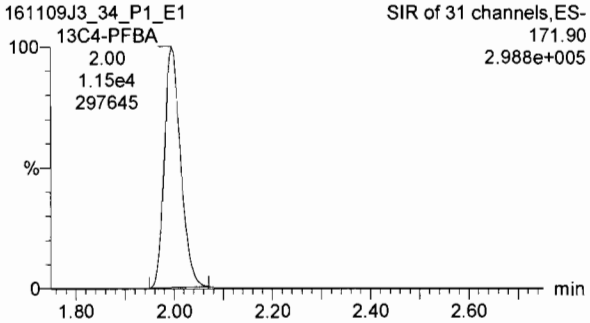
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_34.qld

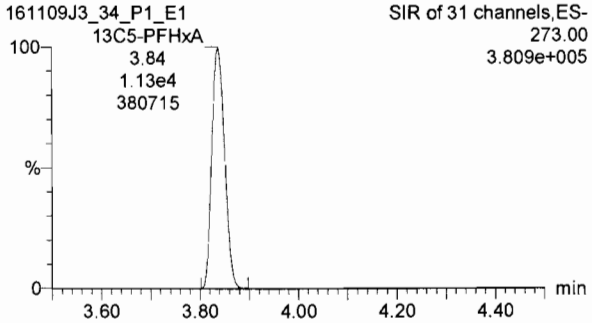
Last Altered: Thursday, November 10, 2016 11:54:27 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:55:20 Pacific Standard Time

Name: 161109J3_34.wiff, Date: 09-Nov-2016, Time: 21:38:54, ID: ST161109J2-11 PFC C3.5 16K0713, Description: PFC C3.5 16K0713 A

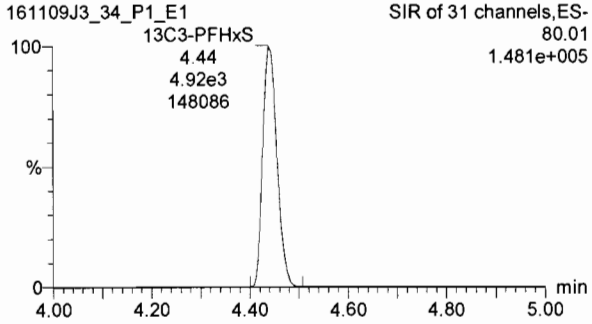
13C4-PFBA



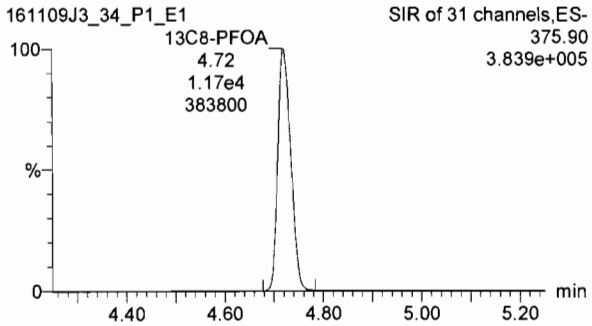
13C5-PFHxA



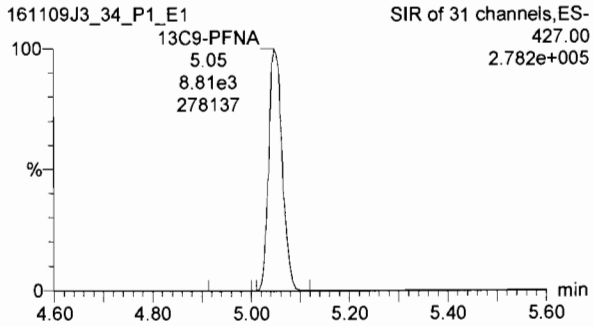
13C3-PFHxS



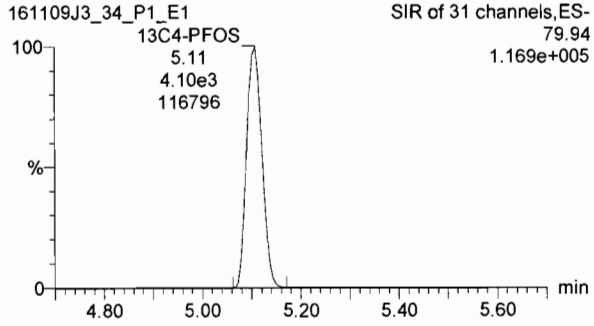
13C8-PFOA



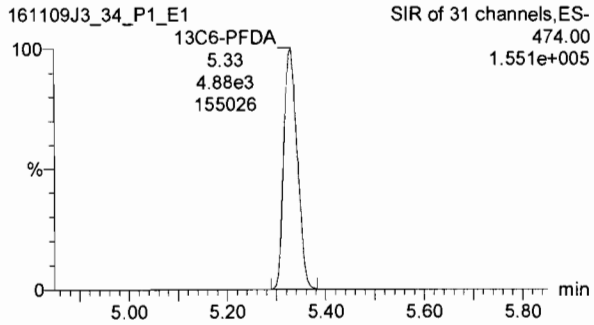
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-32.qld

Last Altered: Thursday, November 17, 2016 10:22:30 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:23:12 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161116G1_32, Date: 16-Nov-2016, Time: 17:22:01, ID: ST161116G1-3 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBS	299 > 79.7	8.39e3	6.46e3		1.000	3.07	11.8	118.1	75-125
2	2	PFHxA	313.2 > 268.9	1.10e4	8.55e3		1.000	3.44	11.9	118.5	
3	3	PFHpA	363 > 318.9	2.22e4	2.09e4		1.000	3.96	11.0	109.7	
4	4	PFHxS	398.9 > 79.6	7.22e3	6.65e3		1.000	4.08	10.3	103.4	
5	5	PFOA	413 > 368.7	2.32e4	3.11e4		1.000	4.36	11.4	113.7	
6	6	PFOS	499 >79.9	3.01e3	5.05e3		1.000	4.76	10.3	103.5	
7	7	PFNA	463 > 418.8	1.78e4	1.38e4		1.000	4.70	10.1	100.9	
8	8	PFDA	513 > 468.8	3.98e3	7.73e3		1.000	5.00	11.7	116.7	
9	9	13C3-PFBS	302.0 > 98.8	6.46e3	3.82e4	0.250	1.000	3.07	8.46	67.6	60-150
10	10	13C2-PFHxA	315 > 269.8	8.55e3	3.82e4	0.741	1.000	3.44	3.77	75.5	
11	11	13C4-PFHpA	367.2 > 321.8	2.09e4	1.33e4	2.077	1.000	3.96	9.47	75.8	
12	12	18O2-PFHxS	403 > 102.6	6.65e3	1.33e4	0.603	1.000	4.07	10.4	82.8	
13	13	13C2-PFOA	414.9 > 369.7	3.11e4	1.62e4	2.438	1.000	4.36	9.85	78.8	
14	14	13C8-PFOS	507.0 > 79.9	5.05e3	5.94e3	1.055	1.000	4.76	10.1	80.5	
15	15	13C5-PFNA	468.2 > 422.9	1.38e4	1.42e4	1.158	1.000	4.70	10.5	83.7	50-150
16	16	13C2-PFDA	515.1 > 469.9	7.73e3	9.37e3	1.164	1.000	5.00	8.86	70.9	60-150
17	17	13C5-PFHxA	318.0 > 272.9	3.82e4	3.82e4	1.000	1.000	3.44	12.5	100.0	
18	18	13C3-PFHxS	401.9 > 79.9	1.33e4	1.33e4	1.000	1.000	4.07	12.5	100.0	
19	19	13C8-PFOA	421.3 > 376	1.62e4	1.62e4	1.000	1.000	4.36	12.5	100.0	
20	20	13C4-PFOS	503.0 > 79.9	5.94e3	5.94e3	1.000	1.000	4.76	12.5	100.0	
21	21	13C9-PFNA	472.2 > 426.9	1.42e4	1.42e4	1.000	1.000	4.70	12.5	100.0	
22	22	13C6-PFDA	519.1 > 473.7	9.37e3	9.37e3	1.000	1.000	5.00	12.5	100.0	

AC 11/17/16

PW 11/17/16

Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:28:27 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:28:48 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Compound name: PFBS

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1	161116G1_1	IPA	16-Nov-16	10:50:46
2	161116G1_2	ST161116G1-1 PFC CS3 16K1605	16-Nov-16	11:03:24
3	161116G1_3	B6K0076-BS1 OPR 0.125	16-Nov-16	11:16:03
4	161116G1_4	IPA	16-Nov-16	11:28:39
5	161116G1_5	B6K0076-BS1 OPR 0.125	16-Nov-16	11:41:16
6	161116G1_6	1601388-01 MW-BG07-1016 0.12618	16-Nov-16	11:53:52
7	161116G1_7	1601388-02 MW-BG06-1016 0.12354	16-Nov-16	12:06:28
8	161116G1_8	1601388-03 MW-BG05-1016 0.12746	16-Nov-16	12:19:05
9	161116G1_9	1601388-04 MW-BG05P-1016 0.1237	16-Nov-16	12:31:42
10	161116G1_10	1601388-05 MW-BG04-1016 0.13102	16-Nov-16	12:44:20
11	161116G1_11	1601388-06 OC-FB-102816 0.12776	16-Nov-16	12:56:58
12	161116G1_12	1601388-07 MW-BG01-1016 0.12279	16-Nov-16	13:09:37
13	161116G1_13	1601388-08 MW-BG09-1016 0.12536	16-Nov-16	13:22:13
14	161116G1_14	B6K0053-MS1 Matrix Spike 0.13008	16-Nov-16	13:34:48
15	161116G1_15	B6K0053-MSD1 Matrix Spike Dup 0.12486	16-Nov-16	13:47:24
16	161116G1_16	1601388-09 OC-MW04-1016 0.12595	16-Nov-16	14:00:04
17	161116G1_17	1601388-10 MW-BG11-1016 0.12196	16-Nov-16	14:12:46
18	161116G1_18	IPA	16-Nov-16	14:25:24
19	161116G1_19	ST161116G1-2 PFC CS3 16K1605	16-Nov-16	14:38:02
20	161116G1_20	IPA	16-Nov-16	14:50:40
21	161116G1_21	1601434-01@5X OF-INF01-110916 0.12736	16-Nov-16	15:03:20
22	161116G1_22	1601434-01 OF-INF01-110916 0.12736	16-Nov-16	15:15:56
23	161116G1_23	1601434-02 OF-GAC-EFF01-110916 0.12569	16-Nov-16	15:28:32
24	161116G1_24	1601390-01 SP 4 0.12354	16-Nov-16	15:41:10
25	161116G1_25	1601390-02 SP 5 0.12756	16-Nov-16	15:53:48
26	161116G1_26	1601390-03 SP 6 0.12523	16-Nov-16	16:06:27
27	161116G1_27	1601390-04 102916-DUP 0.12766	16-Nov-16	16:19:01
28	161116G1_28	1601398-01 SW-NRES020-110116 0.12224	16-Nov-16	16:31:37
29	161116G1_29	1601399-01 860 SOUTH RD 0.12506	16-Nov-16	16:44:12
30	161116G1_30	1601382-02 AT028-SB15-102816-01-02 1	16-Nov-16	16:56:48
31	161116G1_31	IPA	16-Nov-16	17:09:24

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:28:27 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:28:48 Pacific Standard Time

Compound name: PFBS

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33	161116G1_33	IPA	16-Nov-16	17:34:39
34	161116G1_34	1601382-03 AT028-SB15-102816-04-05 1	16-Nov-16	17:47:19
35	161116G1_35	1601382-04 AT028-SB16-102816-02-03 1	16-Nov-16	18:00:04
36	161116G1_36	1601395-01 26MW06_161101 0.12577	16-Nov-16	18:12:46
37	161116G1_37	1601395-02 26MW08_161101 0.12768	16-Nov-16	18:25:22
38	161116G1_38	1601395-03 26SW01_161101 0.12497	16-Nov-16	18:38:00
39	161116G1_39	1601395-04 26SW04_161101 0.12473	16-Nov-16	18:50:38
40	161116G1_40	1601395-05 DUP07_161101 0.12584	16-Nov-16	19:03:18
41	161116G1_41	1601395-12 EB18_161101 0.12291	16-Nov-16	19:15:54
42	161116G1_42	1601360-02 EB-M05-02_161025 0.1299	16-Nov-16	19:28:29
43	161116G1_43	1601360-03 EB-M05-03_161025 0.12768	16-Nov-16	19:41:05
44	161116G1_44	IPA	16-Nov-16	19:53:42
45	161116G1_45	ST161116G1-4 PFC CS3 16K1605	16-Nov-16	20:06:19
46	161116G1_46	IPA	16-Nov-16	20:18:58
47	161116G1_47	1601360-04 EB-M08-07_161025 0.12733	16-Nov-16	20:31:36
48	161116G1_48	1601360-05 EB-M10-01_161025 0.12742	16-Nov-16	20:44:13
49	161116G1_49	1601360-06 FB-M05-02_161025 0.1253	16-Nov-16	20:56:51
50	161116G1_50	1601360-07 FB-M05-03_161025 0.12885	16-Nov-16	21:09:26
51	161116G1_51	1601360-08 FB-M10-01_161025 0.12514	16-Nov-16	21:22:01
52	161116G1_52	1601380-02 EB-MW360-4_161027 0.12813	16-Nov-16	21:34:36
53	161116G1_53	1601380-05 FB-MW360-4_161027 0.12847	16-Nov-16	21:47:13
54	161116G1_54	IPA	16-Nov-16	21:59:52
55	161116G1_55	ST161116G1-5 PFC CS3 16K1605	16-Nov-16	22:12:34
56	161116G1_56	IPA	16-Nov-16	22:25:12

LC Calibration Standards Review Checklist Q1

			ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manaul Integrations	N/A
Calibration ID:	ST161116G1-3	L (M) H	N/A	☑	☑	☑	☑	☑	☐
Calibration ID:	-4	L (M) H	☐	☑	☑	☑	☑	☑	☐
Calibration ID:	-5	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: 6/29/16

Comments:

Reviewed By: PW 11/17/16
Initials/Date

Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:14:17 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:35 Pacific Standard Time

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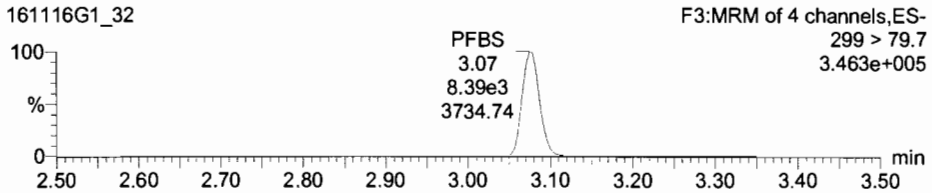
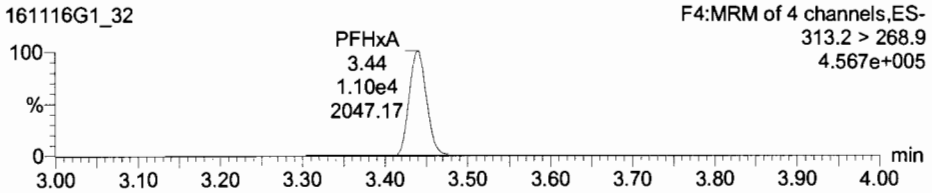
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161116G1_32, Date: 16-Nov-2016, Time: 17:22:01, ID: ST161116G1-3 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

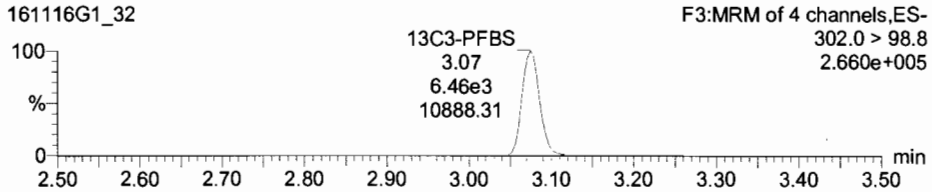
Total PFBS



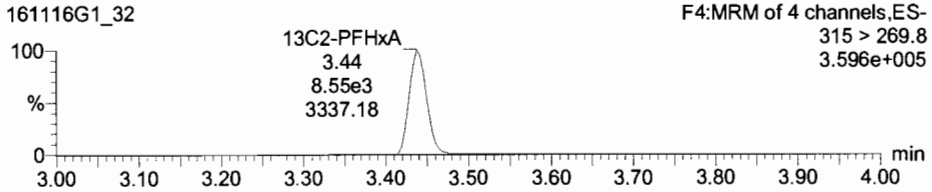
PFHxA



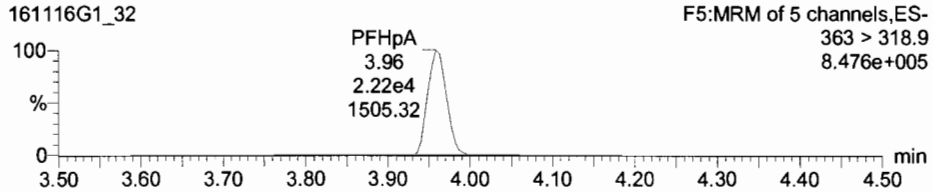
13C3-PFBS



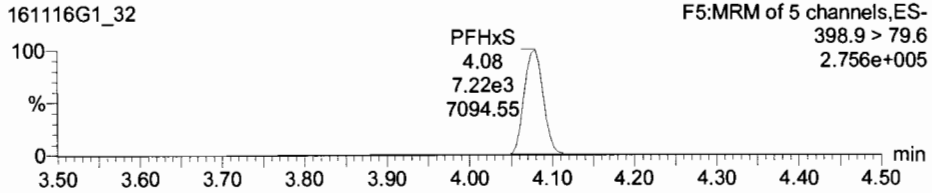
13C2-PFHxA



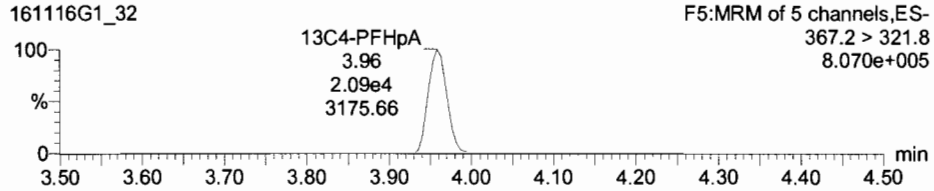
PFHpA



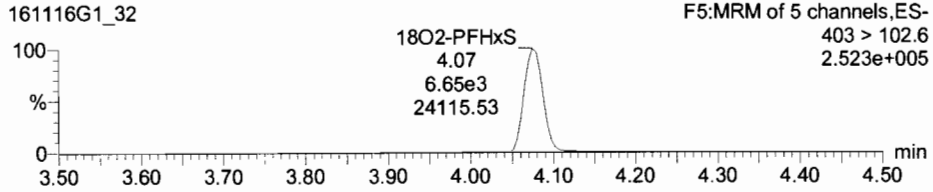
Total PFHxS



13C4-PFHpA



18O2-PFHxS

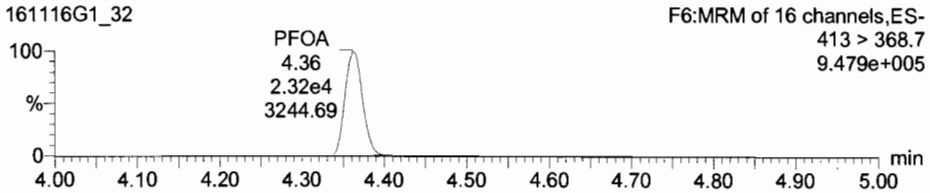


Dataset: Untitled

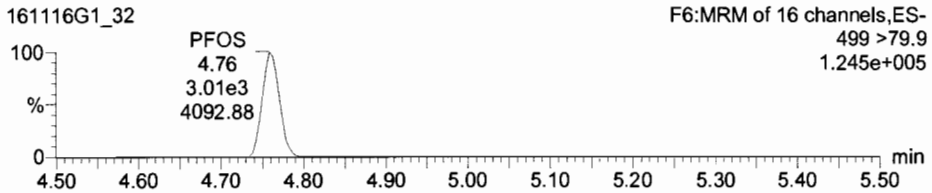
Last Altered: Thursday, November 17, 2016 10:14:17 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:35 Pacific Standard Time

Name: 161116G1_32, Date: 16-Nov-2016, Time: 17:22:01, ID: ST161116G1-3 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

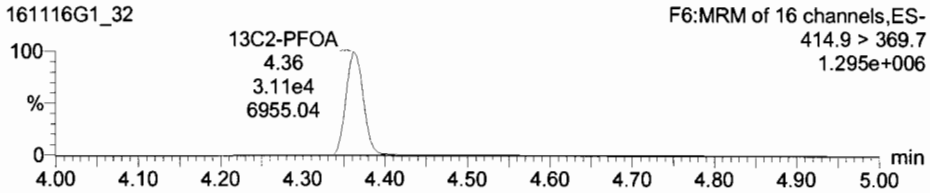
Total PFOA



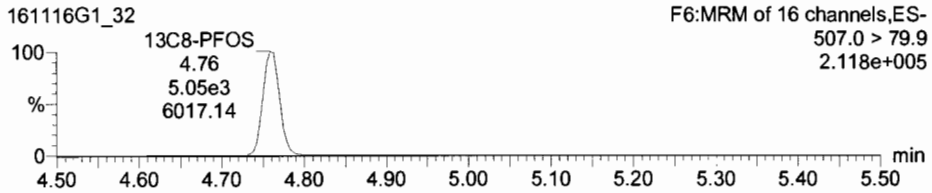
Total PFOS



13C2-PFOA



13C8-PFOS



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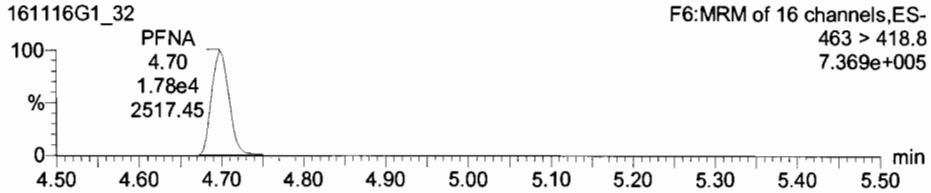
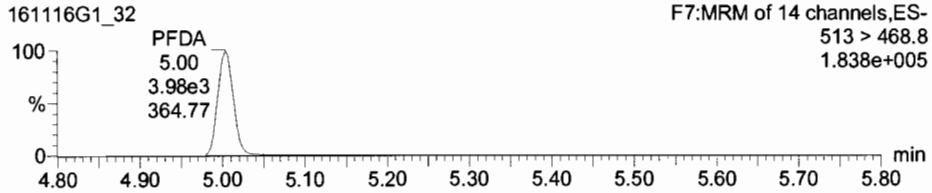
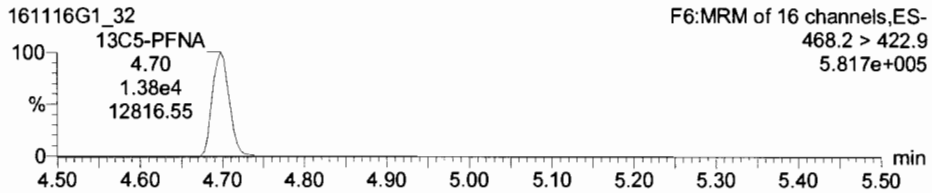


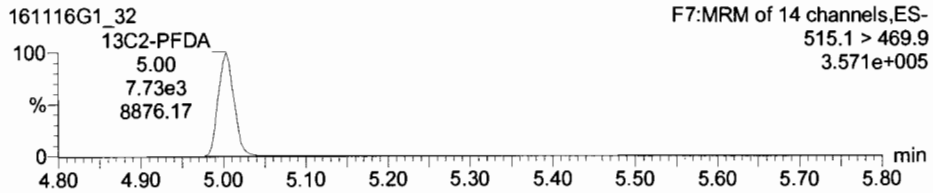
PFDA



13C5-PFNA



13C2-PFDA



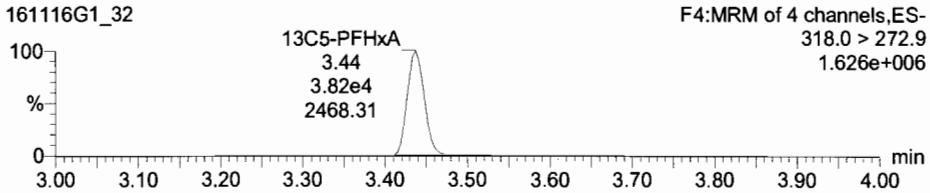
Vista Analytical Laboratory Q1

Dataset: Untitled

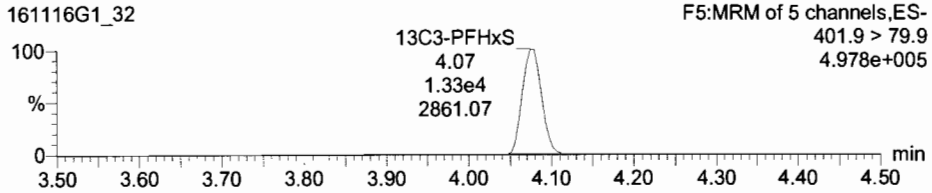
Last Altered: Thursday, November 17, 2016 10:14:17 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:35 Pacific Standard Time

Name: 161116G1_32, Date: 16-Nov-2016, Time: 17:22:01, ID: ST161116G1-3 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

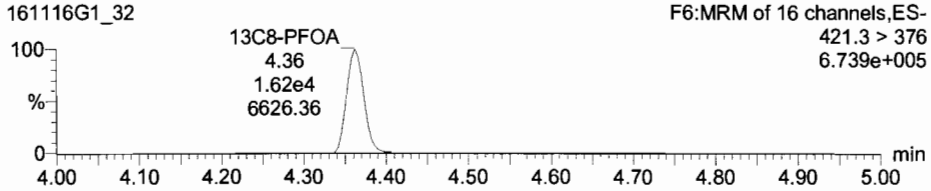
13C5-PFHxA



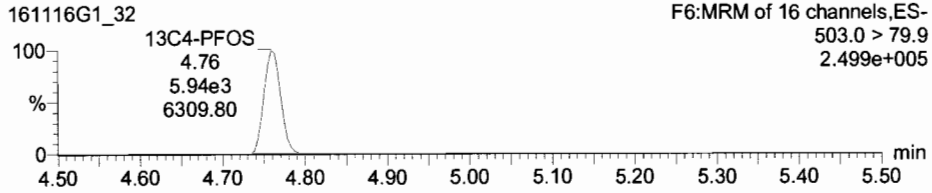
13C3-PFHxS



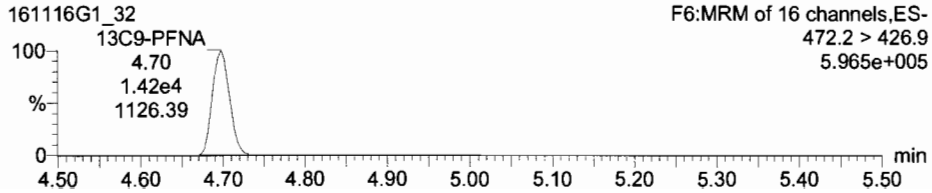
13C8-PFOA



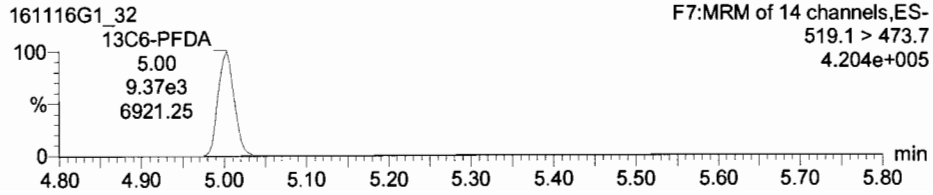
13C4-PFOS



13C9-PFNA



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-45.qld

Last Altered: Thursday, November 17, 2016 10:23:22 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:23:45 Pacific Standard Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161116G1_45, Date: 16-Nov-2016, Time: 20:06:19, ID: ST161116G1-4 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBS	299 > 79.7	8.42e3	6.94e3		1.000	3.07	11.0	110.3	75-125
2	2	PFHxA	313.2 > 268.9	9.97e3	8.29e3		1.000	3.43	11.1	111.1	
3	3	PFHpA	363 > 318.9	2.35e4	2.23e4		1.000	3.96	10.9	108.6	
4	4	PFHxS	398.9 > 79.6	7.53e3	7.00e3		1.000	4.08	10.2	102.2	
5	5	PFOA	413 > 368.7	2.55e4	3.19e4		1.000	4.36	12.2	122.1	
6	6	PFOS	499 >79.9	2.75e3	4.77e3		1.000	4.76	10.0	100.2	
7	7	PFNA	463 > 418.8	1.76e4	1.29e4		1.000	4.70	10.6	106.4	
8	8	PFDA	513 > 468.8	3.78e3	6.93e3		1.000	5.00	12.4	123.8	
9	9	13C3-PFBS	302.0 > 98.8	6.94e3	3.62e4	0.250	1.000	3.07	9.59	76.7	60-150
10	10	13C2-PFHxA	315 > 269.8	8.29e3	3.62e4	0.741	1.000	3.43	3.86	77.2	
11	11	13C4-PFHpA	367.2 > 321.8	2.23e4	1.36e4	2.077	1.000	3.96	9.88	79.0	
12	12	18O2-PFHxS	403 > 102.6	7.00e3	1.36e4	0.603	1.000	4.08	10.7	85.4	
13	13	13C2-PFOA	414.9 > 369.7	3.19e4	1.66e4	2.438	1.000	4.36	9.83	78.6	
14	14	13C8-PFOS	507.0 > 79.9	4.77e3	5.56e3	1.055	1.000	4.76	10.2	81.3	
15	15	13C5-PFNA	468.2 > 422.9	1.29e4	1.45e4	1.158	1.000	4.70	9.63	77.0	50-150
16	16	13C2-PFDA	515.1 > 469.9	6.93e3	8.87e3	1.164	1.000	5.00	8.39	67.1	60-150
17	17	13C5-PFHxA	318.0 > 272.9	3.62e4	3.62e4	1.000	1.000	3.43	12.5	100.0	
18	18	13C3-PFHxS	401.9 > 79.9	1.36e4	1.36e4	1.000	1.000	4.08	12.5	100.0	
19	19	13C8-PFOA	421.3 > 376	1.66e4	1.66e4	1.000	1.000	4.36	12.5	100.0	
20	20	13C4-PFOS	503.0 > 79.9	5.56e3	5.56e3	1.000	1.000	4.76	12.5	100.0	
21	21	13C9-PFNA	472.2 > 426.9	1.45e4	1.45e4	1.000	1.000	4.70	12.5	100.0	
22	22	13C6-PFDA	519.1 > 473.7	8.87e3	8.87e3	1.000	1.000	5.00	12.5	100.0	

AC 11/17/16

PW 11/17/16

Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:28:27 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:28:48 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Compound name: PFBS

	Name	ID	Acq Date	Acq Time
1	161116G1_1	IPA	16-Nov-16	10:50:46
2	161116G1_2	ST161116G1-1 PFC CS3 16K1605	16-Nov-16	11:03:24
3	161116G1_3	B6K0076-BS1 OPR 0.125	16-Nov-16	11:16:03
4	161116G1_4	IPA	16-Nov-16	11:28:39
5	161116G1_5	B6K0076-BS1 OPR 0.125	16-Nov-16	11:41:16
6	161116G1_6	1601388-01 MW-BG07-1016 0.12618	16-Nov-16	11:53:52
7	161116G1_7	1601388-02 MW-BG06-1016 0.12354	16-Nov-16	12:06:28
8	161116G1_8	1601388-03 MW-BG05-1016 0.12746	16-Nov-16	12:19:05
9	161116G1_9	1601388-04 MW-BG05P-1016 0.1237	16-Nov-16	12:31:42
10	161116G1_10	1601388-05 MW-BG04-1016 0.13102	16-Nov-16	12:44:20
11	161116G1_11	1601388-06 OC-FB-102816 0.12776	16-Nov-16	12:56:58
12	161116G1_12	1601388-07 MW-BG01-1016 0.12279	16-Nov-16	13:09:37
13	161116G1_13	1601388-08 MW-BG09-1016 0.12536	16-Nov-16	13:22:13
14	161116G1_14	B6K0053-MS1 Matrix Spike 0.13008	16-Nov-16	13:34:48
15	161116G1_15	B6K0053-MSD1 Matrix Spike Dup 0.12486	16-Nov-16	13:47:24
16	161116G1_16	1601388-09 OC-MW04-1016 0.12595	16-Nov-16	14:00:04
17	161116G1_17	1601388-10 MW-BG11-1016 0.12196	16-Nov-16	14:12:46
18	161116G1_18	IPA	16-Nov-16	14:25:24
19	161116G1_19	ST161116G1-2 PFC CS3 16K1605	16-Nov-16	14:38:02
20	161116G1_20	IPA	16-Nov-16	14:50:40
21	161116G1_21	1601434-01@5X OF-INF01-110916 0.12736	16-Nov-16	15:03:20
22	161116G1_22	1601434-01 OF-INF01-110916 0.12736	16-Nov-16	15:15:56
23	161116G1_23	1601434-02 OF-GAC-EFF01-110916 0.12569	16-Nov-16	15:28:32
24	161116G1_24	1601390-01 SP 4 0.12354	16-Nov-16	15:41:10
25	161116G1_25	1601390-02 SP 5 0.12756	16-Nov-16	15:53:48
26	161116G1_26	1601390-03 SP 6 0.12523	16-Nov-16	16:06:27
27	161116G1_27	1601390-04 102916-DUP 0.12766	16-Nov-16	16:19:01
28	161116G1_28	1601398-01 SW-NRES020-110116 0.12224	16-Nov-16	16:31:37
29	161116G1_29	1601399-01 860 SOUTH RD 0.12506	16-Nov-16	16:44:12
30	161116G1_30	1601382-02 AT028-SB15-102816-01-02 1	16-Nov-16	16:56:48
31	161116G1_31	IPA	16-Nov-16	17:09:24

Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:28:27 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:28:48 Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	161116G1_32	ST161116G1-3 PFC CS3 16K1605	16-Nov-16	17:22:01
33	161116G1_33	IPA	16-Nov-16	17:34:39
34	161116G1_34	1601382-03 AT028-SB15-102816-04-05 1	16-Nov-16	17:47:19
35	161116G1_35	1601382-04 AT028-SB16-102816-02-03 1	16-Nov-16	18:00:04
36	161116G1_36	1601395-01 26MW06_161101 0.12577	16-Nov-16	18:12:46
37	161116G1_37	1601395-02 26MW08_161101 0.12768	16-Nov-16	18:25:22
38	161116G1_38	1601395-03 26SW01_161101 0.12497	16-Nov-16	18:38:00
39	161116G1_39	1601395-04 26SW04_161101 0.12473	16-Nov-16	18:50:38
40	161116G1_40	1601395-05 DUP07_161101 0.12584	16-Nov-16	19:03:18
41	161116G1_41	1601395-12 EB18_161101 0.12291	16-Nov-16	19:15:54
42	161116G1_42	1601360-02 EB-M05-02_161025 0.1299	16-Nov-16	19:28:29
43	161116G1_43	1601360-03 EB-M05-03_161025 0.12768	16-Nov-16	19:41:05
44	161116G1_44	IPA	16-Nov-16	19:53:42
45	161116G1_45	ST161116G1-4 PFC CS3 16K1605	16-Nov-16	20:06:19
46	161116G1_46	IPA	16-Nov-16	20:18:58
47	161116G1_47	1601360-04 EB-M08-07_161025 0.12733	16-Nov-16	20:31:36
48	161116G1_48	1601360-05 EB-M10-01_161025 0.12742	16-Nov-16	20:44:13
49	161116G1_49	1601360-06 FB-M05-02_161025 0.1253	16-Nov-16	20:56:51
50	161116G1_50	1601360-07 FB-M05-03_161025 0.12885	16-Nov-16	21:09:26
51	161116G1_51	1601360-08 FB-M10-01_161025 0.12514	16-Nov-16	21:22:01
52	161116G1_52	1601380-02 EB-MW360-4_161027 0.12813	16-Nov-16	21:34:36
53	161116G1_53	1601380-05 FB-MW360-4_161027 0.12847	16-Nov-16	21:47:13
54	161116G1_54	IPA	16-Nov-16	21:59:52
55	161116G1_55	ST161116G1-5 PFC CS3 16K1605	16-Nov-16	22:12:34
56	161116G1_56	IPA	16-Nov-16	22:25:12

Quantify Sample Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:14:43 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:46 Pacific Standard Time

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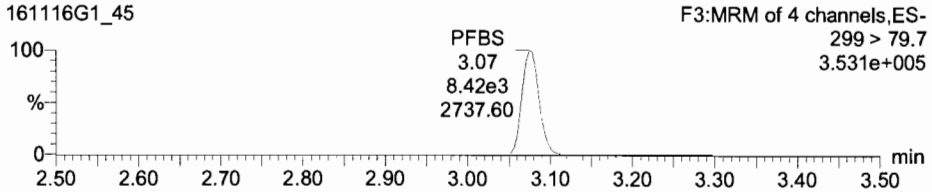
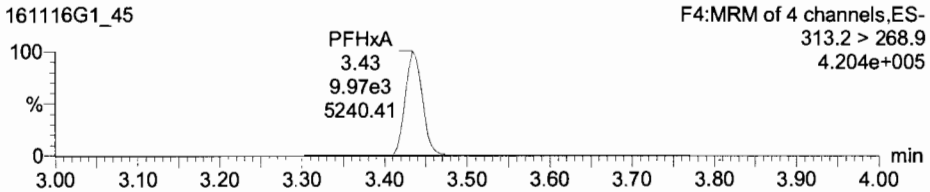
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161116G1_45, Date: 16-Nov-2016, Time: 20:06:19, ID: ST161116G1-4 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

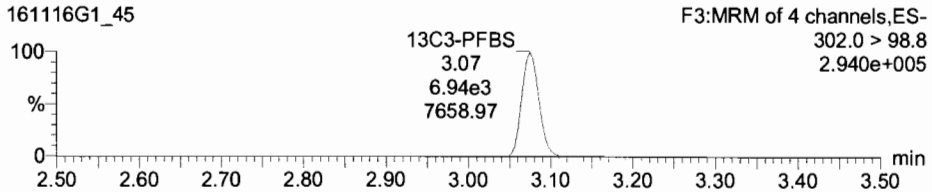
Total PFBS



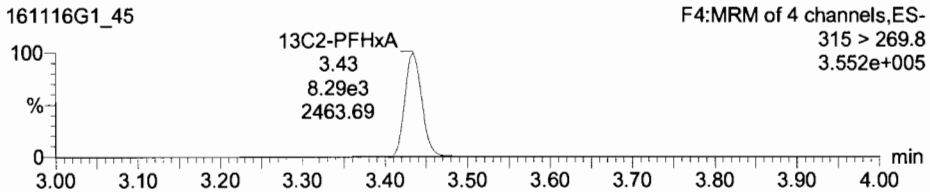
PFHxA



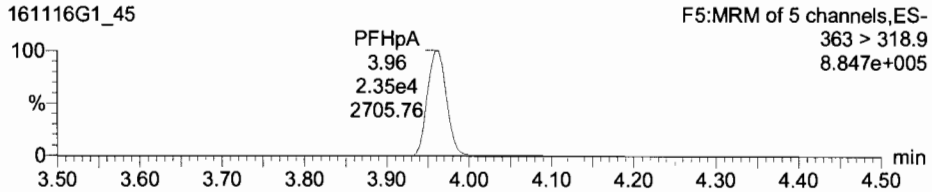
13C3-PFBS



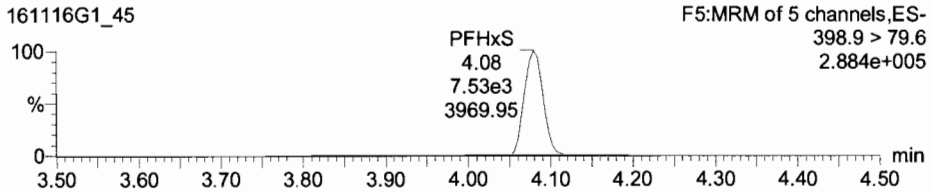
13C2-PFHxA



PFHpA



Total PFHxS



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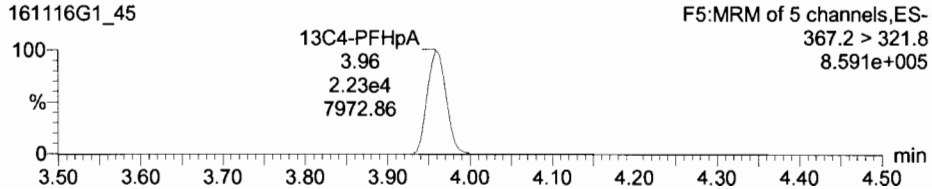
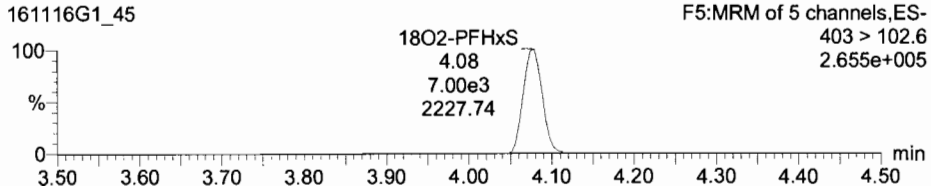


18O2-PFHxS



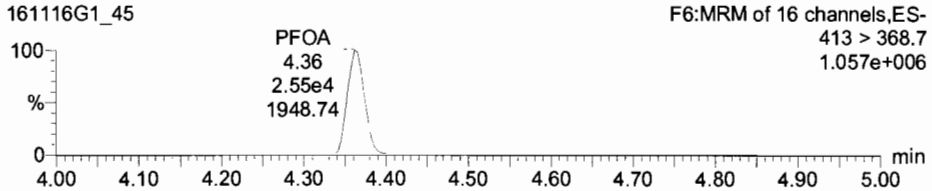
Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:14:43 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:46 Pacific Standard Time

Name: 161116G1_45, Date: 16-Nov-2016, Time: 20:06:19, ID: ST161116G1-4 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

Total PFOA



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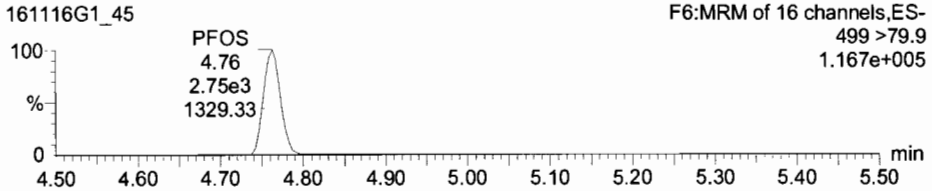

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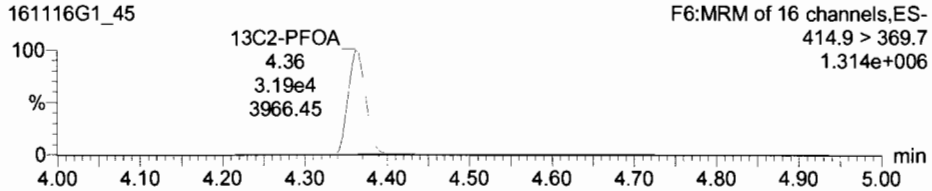
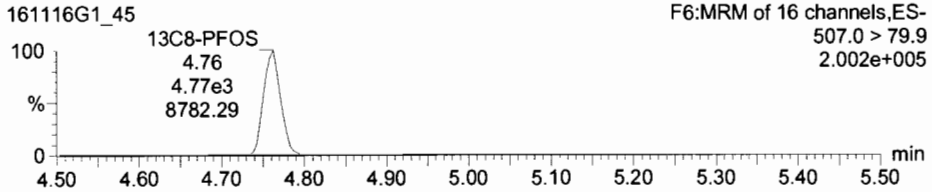


13C8-PFOS



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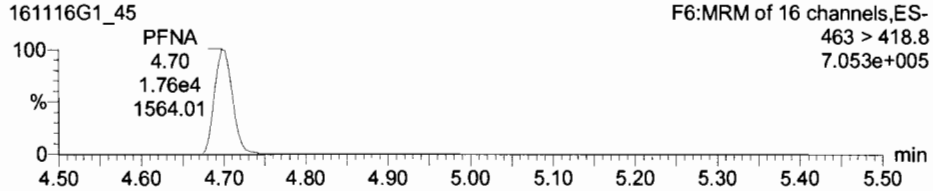
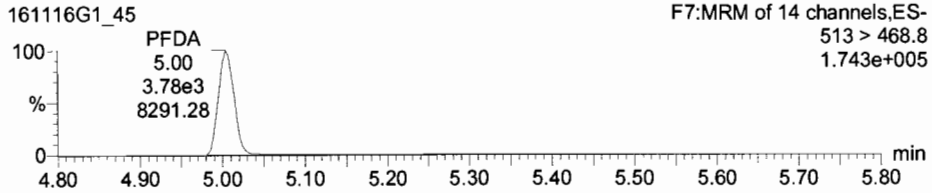
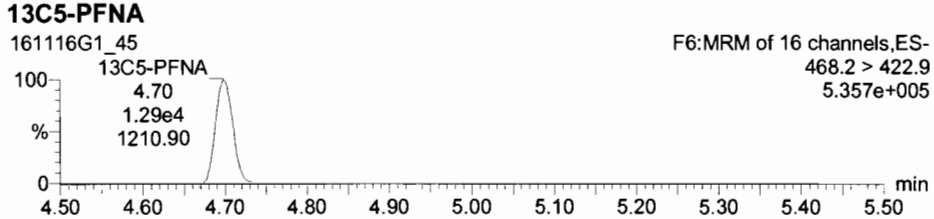


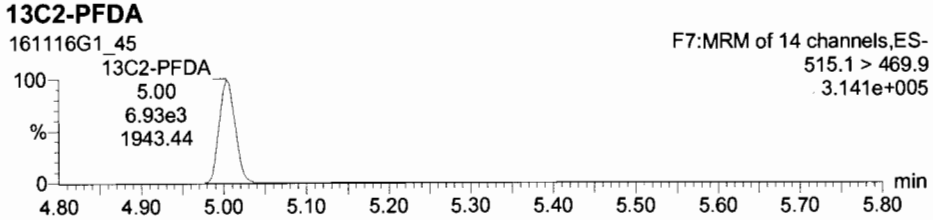
PFDA



13C5-PFNA



13C2-PFDA



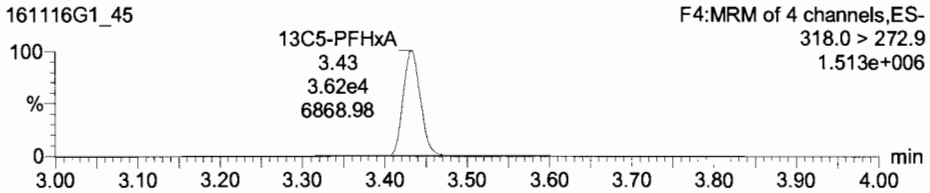
Vista Analytical Laboratory Q1

Dataset: Untitled

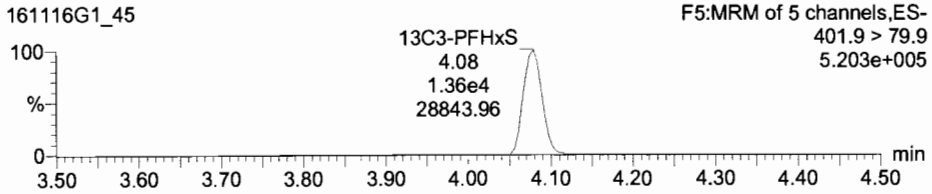
Last Altered: Thursday, November 17, 2016 10:14:43 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:46 Pacific Standard Time

Name: 161116G1_45, Date: 16-Nov-2016, Time: 20:06:19, ID: ST161116G1-4 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

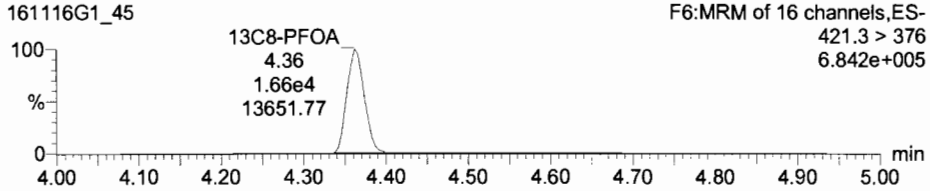
13C5-PFHxA



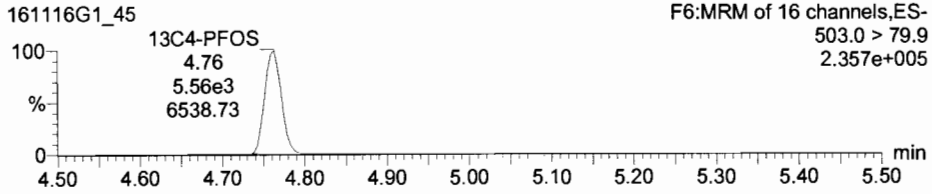
13C3-PFHxS



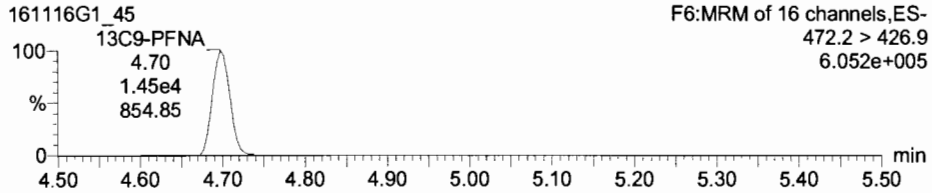
13C8-PFOA



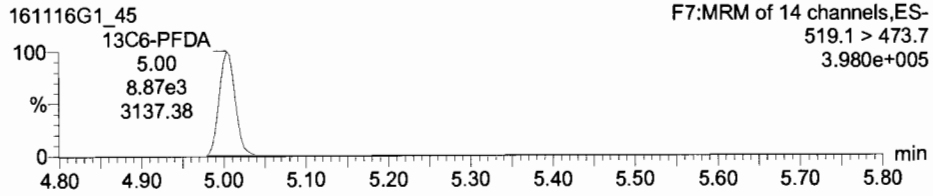
13C4-PFOS



13C9-PFNA



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161116G1\161116G1-55.qld

Last Altered: Thursday, November 17, 2016 10:25:22 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:25:43 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161116G1_55, Date: 16-Nov-2016, Time: 22:12:34, ID: ST161116G1-5 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBS	299 > 79.7	8.38e3	7.15e3		1.000	3.07	10.6	106.4	75-125
2	2	PFHxA	313.2 > 268.9	1.06e4	8.34e3		1.000	3.44	11.7	117.1	
3	3	PFHpA	363 > 318.9	2.26e4	2.06e4		1.000	3.96	11.3	113.5	
4	4	PFHxS	398.9 > 79.6	8.00e3	6.83e3		1.000	4.08	11.1	111.5	
5	5	PFOA	413 > 368.7	2.27e4	3.25e4		1.000	4.36	10.6	106.4	
6	6	PFOS	499 >79.9	2.86e3	4.85e3		1.000	4.76	10.2	102.5	
7	7	PFNA	463 > 418.8	1.73e4	1.16e4		1.000	4.70	11.6	116.4	
8	8	PFDA	513 > 468.8	3.53e3	6.51e3		1.000	5.00	12.3	122.8	
9	9	13C3-PFBS	302.0 > 98.8	7.15e3	3.82e4	0.250	1.000	3.07	9.36	74.9	60-150
10	10	13C2-PFHxA	315 > 269.8	8.34e3	3.82e4	0.741	1.000	3.43	3.68	73.6	
11	11	13C4-PFHpA	367.2 > 321.8	2.06e4	1.30e4	2.077	1.000	3.96	9.54	76.4	
12	12	18O2-PFHxS	403 > 102.6	6.83e3	1.30e4	0.603	1.000	4.07	10.9	87.1	
13	13	13C2-PFOA	414.9 > 369.7	3.25e4	1.56e4	2.438	1.000	4.36	10.6	85.1	
14	14	13C8-PFOS	507.0 > 79.9	4.85e3	4.96e3	1.055	1.000	4.76	11.6	92.7	
15	15	13C5-PFNA	468.2 > 422.9	1.16e4	1.29e4	1.158	1.000	4.70	9.71	77.7	50-150
16	16	13C2-PFDA	515.1 > 469.9	6.51e3	8.39e3	1.164	1.000	5.00	8.34	66.7	60-150
17	17	13C5-PFHxA	318.0 > 272.9	3.82e4	3.82e4	1.000	1.000	3.43	12.5	100.0	
18	18	13C3-PFHxS	401.9 > 79.9	1.30e4	1.30e4	1.000	1.000	4.07	12.5	100.0	
19	19	13C8-PFOA	421.3 > 376	1.56e4	1.56e4	1.000	1.000	4.36	12.5	100.0	
20	20	13C4-PFOS	503.0 > 79.9	4.96e3	4.96e3	1.000	1.000	4.76	12.5	100.0	
21	21	13C9-PFNA	472.2 > 426.9	1.29e4	1.29e4	1.000	1.000	4.70	12.5	100.0	
22	22	13C6-PFDA	519.1 > 473.7	8.39e3	8.39e3	1.000	1.000	5.00	12.5	100.0	

AC 11/17/16

PW 11/17/16

Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:28:27 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:28:48 Pacific Standard Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Compound name: PFBS

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1	161116G1_1	IPA	16-Nov-16	10:50:46
2	161116G1_2	ST161116G1-1 PFC CS3 16K1605	16-Nov-16	11:03:24
3	161116G1_3	B6K0076-BS1 OPR 0.125	16-Nov-16	11:16:03
4	161116G1_4	IPA	16-Nov-16	11:28:39
5	161116G1_5	B6K0076-BS1 OPR 0.125	16-Nov-16	11:41:16
6	161116G1_6	1601388-01 MW-BG07-1016 0.12618	16-Nov-16	11:53:52
7	161116G1_7	1601388-02 MW-BG06-1016 0.12354	16-Nov-16	12:06:28
8	161116G1_8	1601388-03 MW-BG05-1016 0.12746	16-Nov-16	12:19:05
9	161116G1_9	1601388-04 MW-BG05P-1016 0.1237	16-Nov-16	12:31:42
10	161116G1_10	1601388-05 MW-BG04-1016 0.13102	16-Nov-16	12:44:20
11	161116G1_11	1601388-06 OC-FB-102816 0.12776	16-Nov-16	12:56:58
12	161116G1_12	1601388-07 MW-BG01-1016 0.12279	16-Nov-16	13:09:37
13	161116G1_13	1601388-08 MW-BG09-1016 0.12536	16-Nov-16	13:22:13
14	161116G1_14	B6K0053-MS1 Matrix Spike 0.13008	16-Nov-16	13:34:48
15	161116G1_15	B6K0053-MSD1 Matrix Spike Dup 0.12486	16-Nov-16	13:47:24
16	161116G1_16	1601388-09 OC-MW04-1016 0.12595	16-Nov-16	14:00:04
17	161116G1_17	1601388-10 MW-BG11-1016 0.12196	16-Nov-16	14:12:46
18	161116G1_18	IPA	16-Nov-16	14:25:24
19	161116G1_19	ST161116G1-2 PFC CS3 16K1605	16-Nov-16	14:38:02
20	161116G1_20	IPA	16-Nov-16	14:50:40
21	161116G1_21	1601434-01@5X OF-INF01-110916 0.12736	16-Nov-16	15:03:20
22	161116G1_22	1601434-01 OF-INF01-110916 0.12736	16-Nov-16	15:15:56
23	161116G1_23	1601434-02 OF-GAC-EFF01-110916 0.12569	16-Nov-16	15:28:32
24	161116G1_24	1601390-01 SP 4 0.12354	16-Nov-16	15:41:10
25	161116G1_25	1601390-02 SP 5 0.12756	16-Nov-16	15:53:48
26	161116G1_26	1601390-03 SP 6 0.12523	16-Nov-16	16:06:27
27	161116G1_27	1601390-04 102916-DUP 0.12766	16-Nov-16	16:19:01
28	161116G1_28	1601398-01 SW-NRES020-110116 0.12224	16-Nov-16	16:31:37
29	161116G1_29	1601399-01 860 SOUTH RD 0.12506	16-Nov-16	16:44:12
30	161116G1_30	1601382-02 AT028-SB15-102816-01-02 1	16-Nov-16	16:56:48
31	161116G1_31	IPA	16-Nov-16	17:09:24

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:28:27 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:28:48 Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
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34	161116G1_34	1601382-03 AT028-SB15-102816-04-05 1	16-Nov-16	17:47:19
35	161116G1_35	1601382-04 AT028-SB16-102816-02-03 1	16-Nov-16	18:00:04
36	161116G1_36	1601395-01 26MW06_161101 0.12577	16-Nov-16	18:12:46
37	161116G1_37	1601395-02 26MW08_161101 0.12768	16-Nov-16	18:25:22
38	161116G1_38	1601395-03 26SW01_161101 0.12497	16-Nov-16	18:38:00
39	161116G1_39	1601395-04 26SW04_161101 0.12473	16-Nov-16	18:50:38
40	161116G1_40	1601395-05 DUP07_161101 0.12584	16-Nov-16	19:03:18
41	161116G1_41	1601395-12 EB18_161101 0.12291	16-Nov-16	19:15:54
42	161116G1_42	1601360-02 EB-M05-02_161025 0.1299	16-Nov-16	19:28:29
43	161116G1_43	1601360-03 EB-M05-03_161025 0.12768	16-Nov-16	19:41:05
44	161116G1_44	IPA	16-Nov-16	19:53:42
45	161116G1_45	ST161116G1-4 PFC CS3 16K1605	16-Nov-16	20:06:19
46	161116G1_46	IPA	16-Nov-16	20:18:58
47	161116G1_47	1601360-04 EB-M08-07_161025 0.12733	16-Nov-16	20:31:36
48	161116G1_48	1601360-05 EB-M10-01_161025 0.12742	16-Nov-16	20:44:13
49	161116G1_49	1601360-06 FB-M05-02_161025 0.1253	16-Nov-16	20:56:51
50	161116G1_50	1601360-07 FB-M05-03_161025 0.12885	16-Nov-16	21:09:26
51	161116G1_51	1601360-08 FB-M10-01_161025 0.12514	16-Nov-16	21:22:01
52	161116G1_52	1601380-02 EB-MW360-4_161027 0.12813	16-Nov-16	21:34:36
53	161116G1_53	1601380-05 FB-MW360-4_161027 0.12847	16-Nov-16	21:47:13
54	161116G1_54	IPA	16-Nov-16	21:59:52
55	161116G1_55	ST161116G1-5 PFC CS3 16K1605	16-Nov-16	22:12:34
56	161116G1_56	IPA	16-Nov-16	22:25:12

Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:14:54 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:58 Pacific Standard Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161116G1_55, Date: 16-Nov-2016, Time: 22:12:34, ID: ST161116G1-5 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

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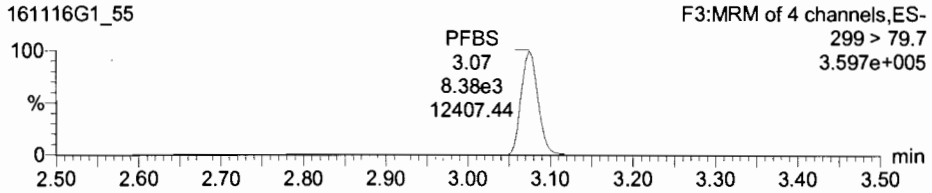
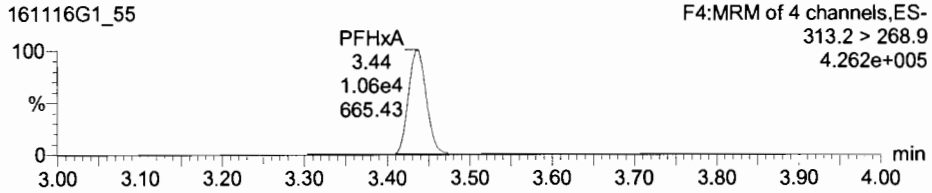
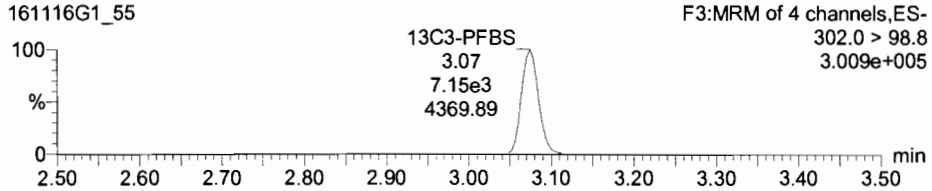


PFHxA



13C3-PFBS



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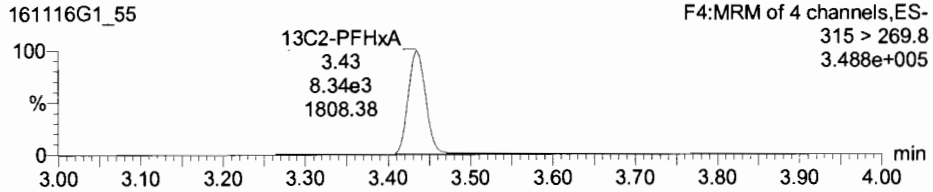
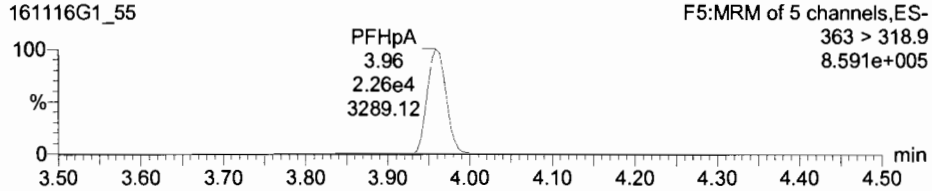
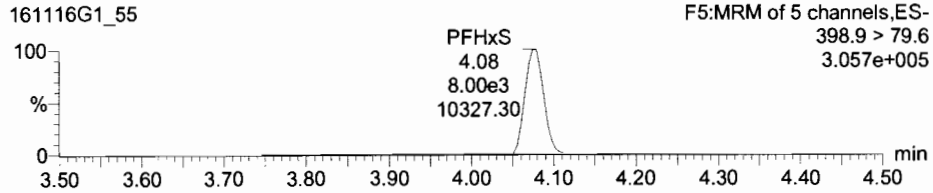


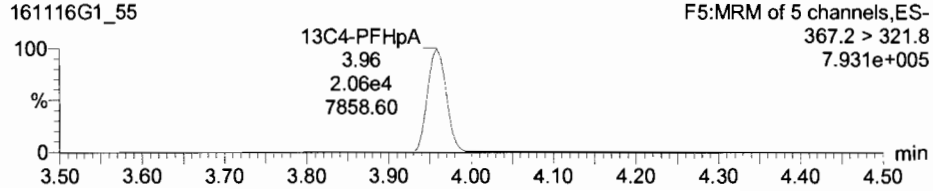
PFHpA



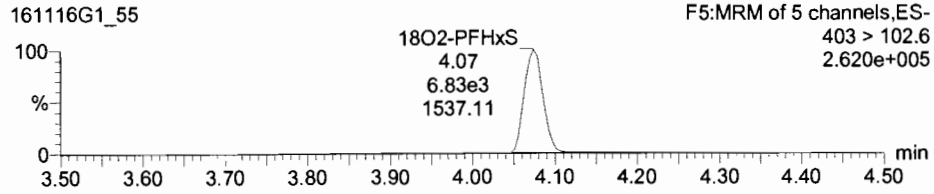
Total PFHxS



13C4-PFHpA



18O2-PFHxS



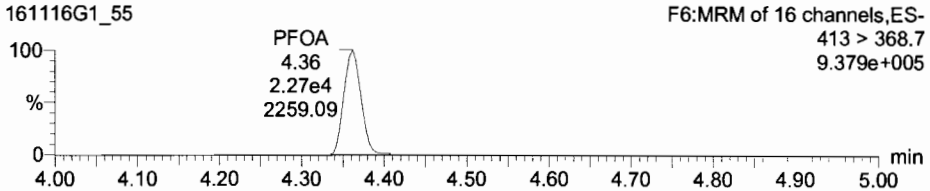
Vista Analytical Laboratory Q1

Dataset: Untitled

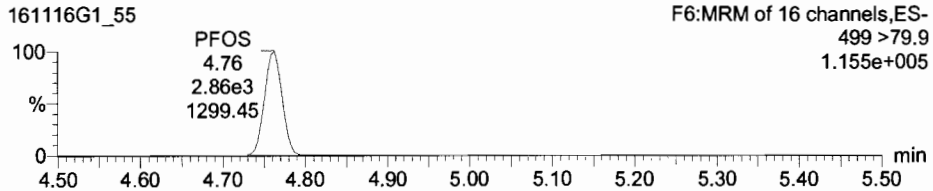
Last Altered: Thursday, November 17, 2016 10:14:54 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:58 Pacific Standard Time

Name: 161116G1_55, Date: 16-Nov-2016, Time: 22:12:34, ID: ST161116G1-5 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

Total PFOA



Total PFOS



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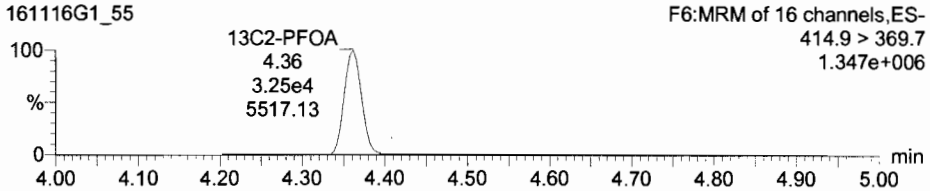
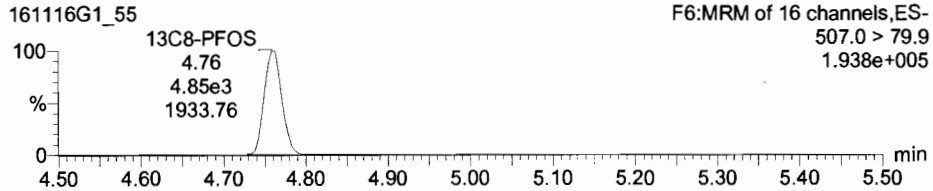


13C8-PFOS



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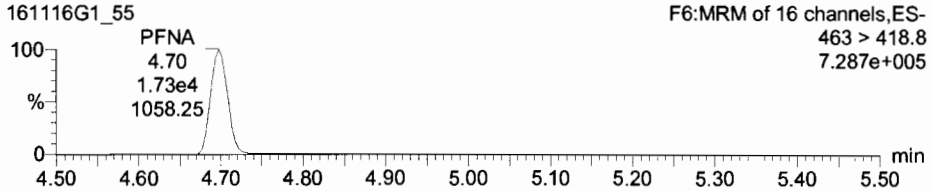
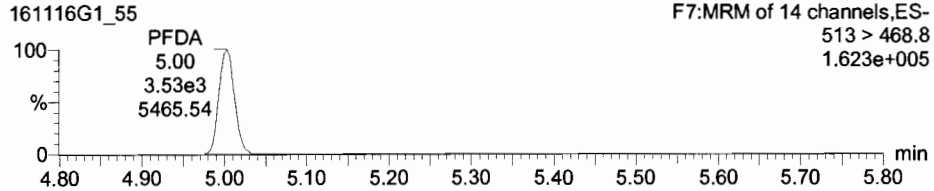
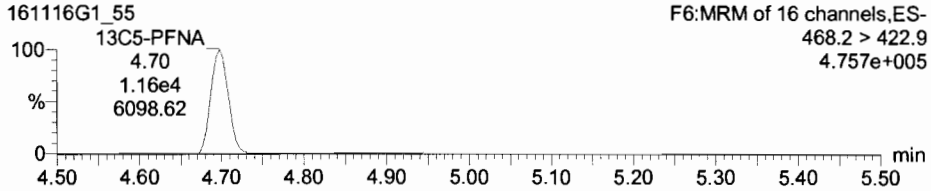


PFDA



13C5-PFNA



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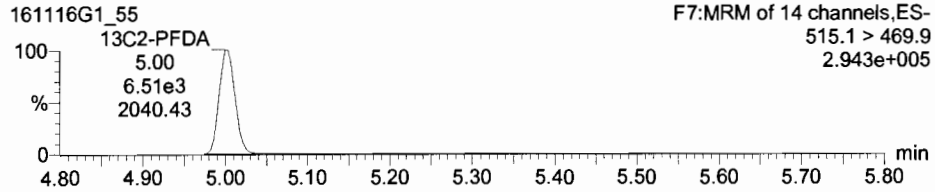


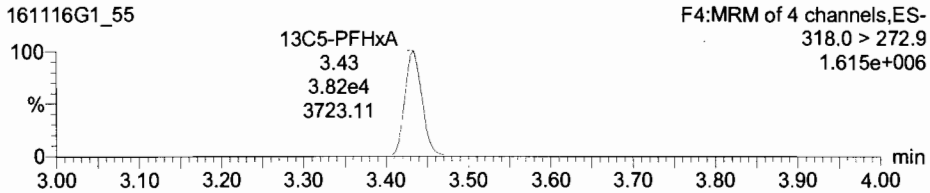
Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Thursday, November 17, 2016 10:14:54 Pacific Standard Time
Printed: Thursday, November 17, 2016 10:14:58 Pacific Standard Time

Name: 161116G1_55, Date: 16-Nov-2016, Time: 22:12:34, ID: ST161116G1-5 PFC CS3 16K1605, Description: PFC CS3 16K1605 A

13C5-PFHxA



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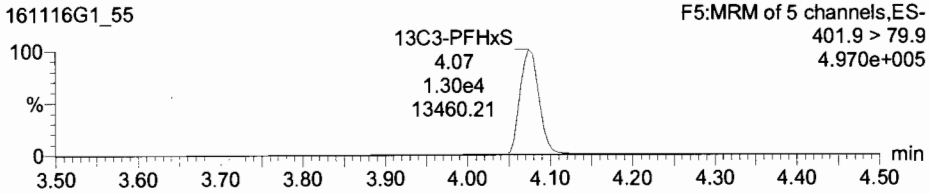
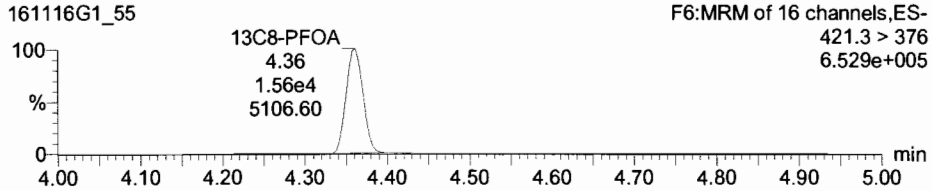
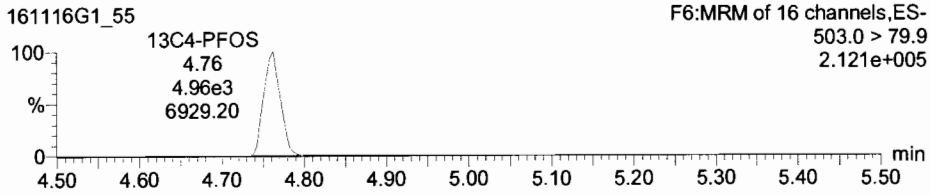


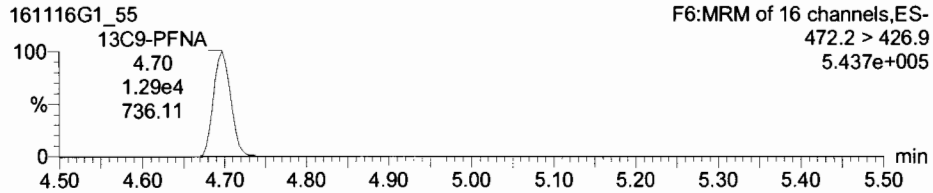
13C8-PFOA



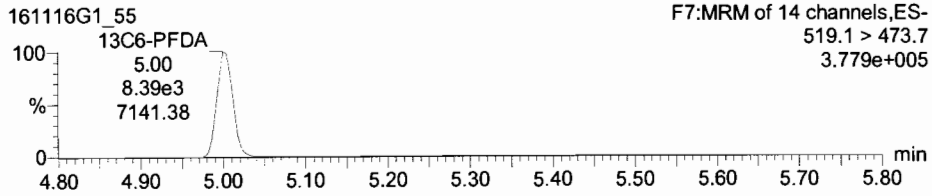
13C4-PFOS



13C9-PFNA



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161118J1\161118J1_02.qld

Last Altered: Saturday, November 19, 2016 12:30:12 Pacific Standard Time
Printed: Saturday, November 19, 2016 12:31:27 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 15 Nov 2016 11:51:30
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161118J1_02.wiff, Date: 18-Nov-2016, Time: 14:59:37, ID: ST161118J1-1 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.85e4	1.17e4		1.000	1.88	29.3	117.0	75-125
2	2	PFPeA	218.90	2.74e4	1.28e4		1.000	3.09	29.3	117.3	
3	3	PFBS	79.90	1.36e4	7.09e3		1.000	3.39	30.6	122.4	
4	4	PFHxA	268.90	2.54e4	4.87e3		1.000	3.80	30.5	122.1	
5	5	PFHpA	318.90	1.94e4	9.64e3		1.000	4.27	29.8	119.4	
6	6	PFHxS	79.91	1.17e4	1.50e3		1.000	4.39	30.1	120.3	
7	7	6:2 FTS	406.90	6.95e3	3.11e3		1.000	4.62	31.2	124.8	
8	8	PFOA	368.90	2.38e4	9.03e3		1.000	4.67	26.4	105.8	
9	9	PFNA	419.00	1.58e4	7.98e3		1.000	4.99	27.4	109.6	
10	10	PFOS	79.92	1.20e4	4.34e3		1.000	5.05	27.5	110.2	
11	11	PFDA	469.00	9.76e3	4.51e3		1.000	5.28	26.8	107.0	
12	12	8:2 FTS	506.90	2.80e3	1.27e3		1.000	5.25	27.1	108.6	
13	13	13C3-PFBA	172.00	1.17e4	1.51e4	0.894	1.000	1.88	10.8	86.1	60-150
14	14	13C3-PFPeA	221.90	1.28e4	1.54e4	0.945	1.000	3.09	11.0	87.7	
15	15	13C3-PFBS	79.95	7.09e3	1.54e4	0.531	1.000	3.39	10.8	86.4	
16	16	13C2-PFHxA	269.90	4.87e3	1.54e4	0.905	1.000	3.79	4.36	87.1	
17	17	13C4-PFHpA	321.90	9.64e3	1.54e4	0.770	1.000	4.27	10.1	81.2	
18	18	18O2-PFHxS	102.90	1.50e3	6.28e3	0.276	1.000	4.39	10.8	86.3	
19	19	13C2-6:2 FTS	408.90	3.11e3	1.39e4	0.219	1.000	4.62	12.7	101.9	40-150
20	20	13C2-PFOA	369.90	9.03e3	1.39e4	0.663	1.000	4.67	12.2	97.6	60-150
21	21	13C5-PFNA	422.90	7.98e3	8.93e3	1.019	1.000	4.99	10.9	87.6	50-150
22	22	13C8-PFOS	79.93	4.34e3	5.04e3	0.921	1.000	5.05	11.7	93.5	60-150
23	23	13C2-PFDA	470.00	4.51e3	6.27e3	0.887	1.000	5.28	10.1	81.2	
24	24	13C2-8:2 FTS	508.70	1.27e3	6.27e3	0.272	1.000	5.25	9.30	74.4	40-150
25	25	13C4-PFBA	171.90	1.51e4	1.51e4	1.000	1.000	1.88	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.54e4	1.54e4	1.000	1.000	3.79	12.5	100.0	
27	27	13C3-PFHxS	80.01	6.28e3	6.28e3	1.000	1.000	4.38	12.5	100.0	
28	28	13C8-PFOA	375.90	1.39e4	1.39e4	1.000	1.000	4.67	12.5	100.0	
29	29	13C4-PFOS	79.94	5.04e3	5.04e3	1.000	1.000	5.05	12.5	100.0	
30	30	13C9-PFNA	427.00	8.93e3	8.93e3	1.000	1.000	4.99	12.5	100.0	
31	31	13C6-PFDA	474.00	6.27e3	6.27e3	1.000	1.000	5.28	12.5	100.0	

AC
11/19/16

Printing Time: 12:40:53
Printing Date: Saturday, November 19, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161118J1_01	11/18/2016 14:47:23	IPA	IPA
2	161118J1_02	11/18/2016 14:59:37	ST161118J1-1 PFC C3.5 16K1421	PFC C3.5 16K1421 A
3	161118J1_03	11/18/2016 15:11:51	IPA	IPA
4	161118J1_04	11/18/2016 15:24:05	1601395-03	26SW01_161101
5	161118J1_05	11/18/2016 15:36:19	1601395-04	26SW04_161101
6	161118J1_06	11/18/2016 15:48:33	1601395-12	EB18_161101
7	161118J1_07	11/18/2016 16:00:46	1601360-02	EB-M05-02_161025
8	161118J1_08	11/18/2016 16:12:57	1601442@5X	OF-INF01-110816
9	161118J1_09	11/18/2016 16:25:09	IPA	IPA
10	161118J1_10	11/18/2016 16:37:24	ST161118J1-2 PFC C3.5 16K1421	PFC C3.5 16K1421 A
11	161118J1_11	11/18/2016 16:49:37	IPA	IPA

LC Calibration Standards Review Checklist Q2

			ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manaul Integrations	N/A
Calibration ID:	ST161118J1-1	L (M) H	N/A	✓	✓	✓	✓	✓	☐
Calibration ID:	-2	L (M) H	✓	✓ (A)	✓	✓	✓	✓	✓
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: 10/14/16

Comments:
(A) PFHpA and 6:2 FTS outside limits. Not used in this sequence. AC 11/19/16

Reviewed By: CB 11/19/16
Initials/Date

Quantify Sample Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q2

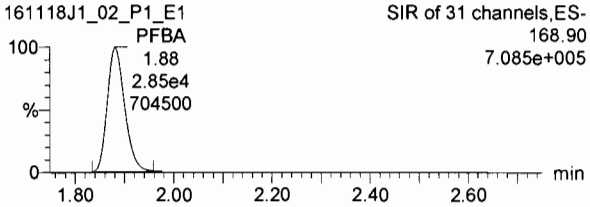
Dataset: Untitled

Last Altered: Saturday, November 19, 2016 12:27:47 Pacific Standard Time
Printed: Saturday, November 19, 2016 12:27:55 Pacific Standard Time

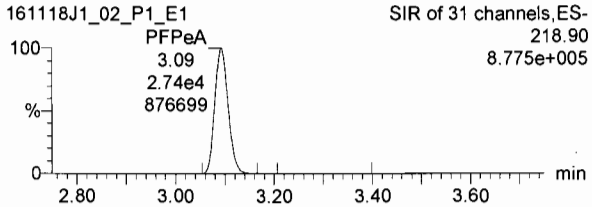
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 15 Nov 2016 11:51:30
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161118J1_02.wiff, Date: 18-Nov-2016, Time: 14:59:37, ID: ST161118J1-1 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

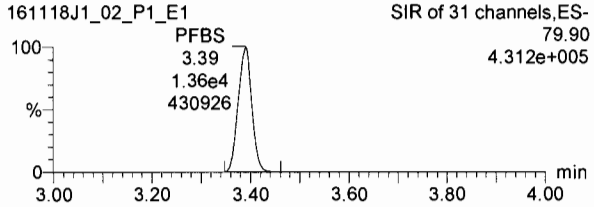
PFBA



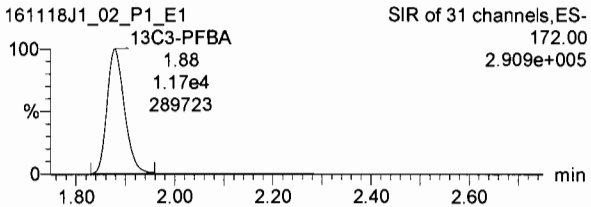
PFPeA



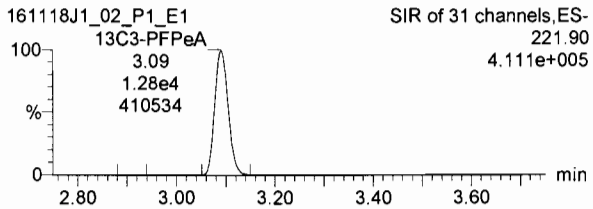
PFBS



13C3-PFBA



13C3-PFPeA



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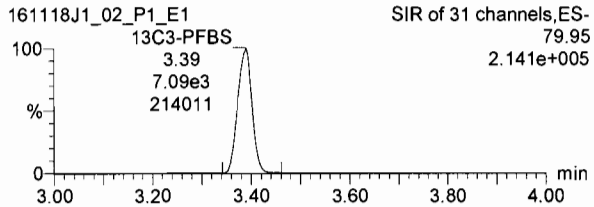
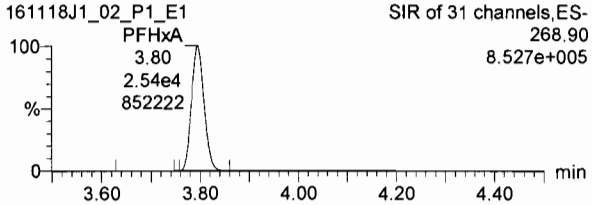
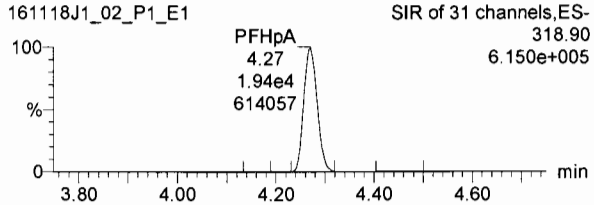


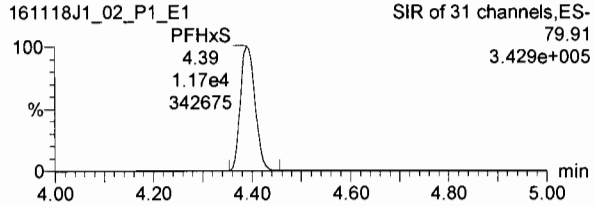
PFHxA



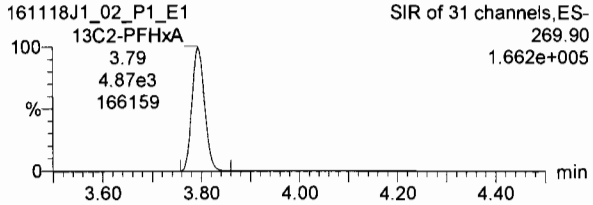
PFHpA



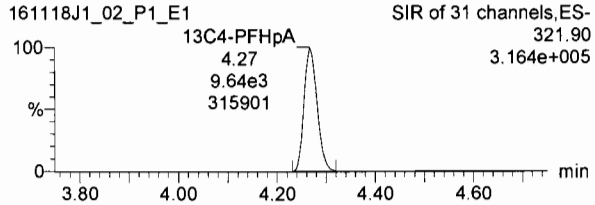
PFHxS



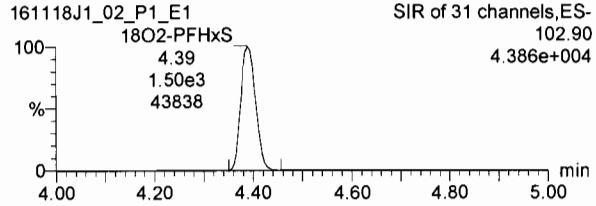
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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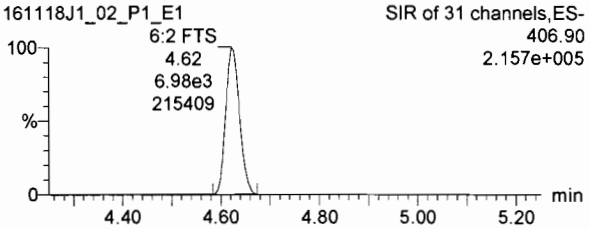
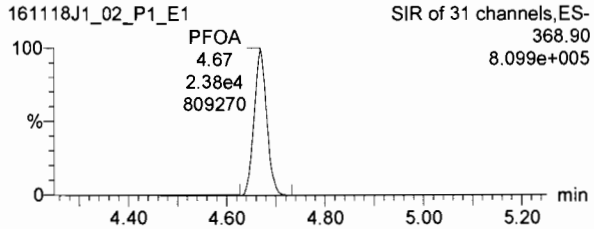
Last Altered: Saturday, November 19, 2016 12:27:47 Pacific Standard Time
Printed: Saturday, November 19, 2016 12:27:55 Pacific Standard Time

Name: 161118J1_02.wiff, Date: 18-Nov-2016, Time: 14:59:37, ID: ST161118J1-1 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

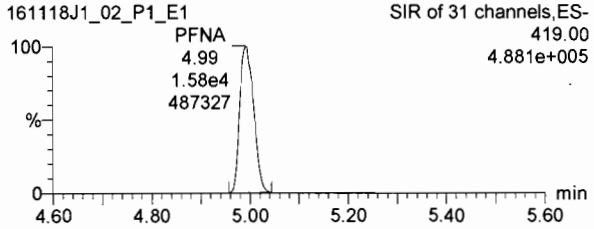
6:2 FTS



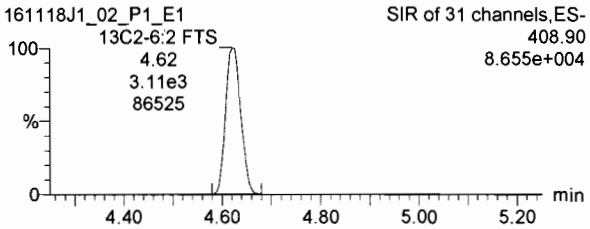
PFOA



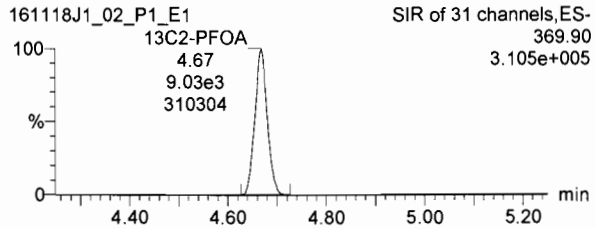
PFNA



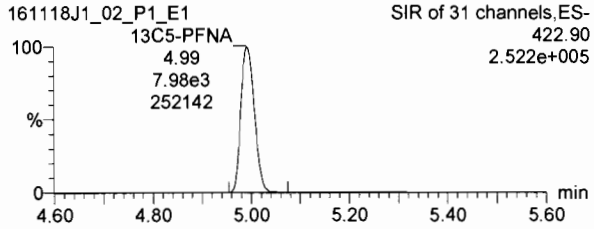
13C2-6:2 FTS



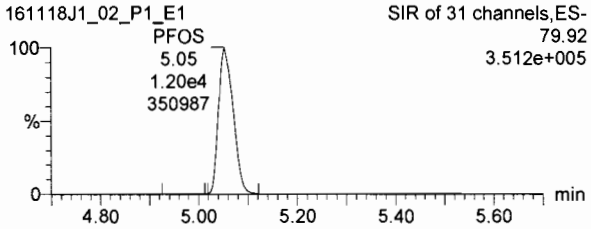
13C2-PFOA



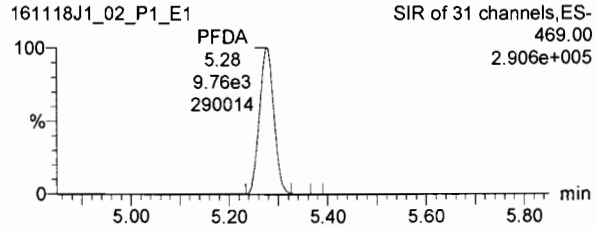
13C5-PFNA



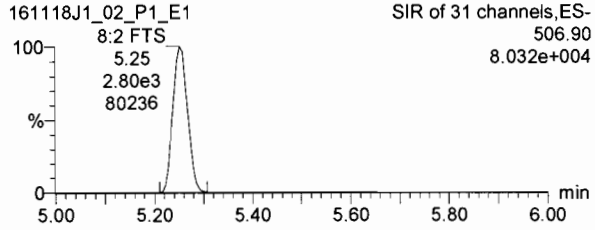
PFOS



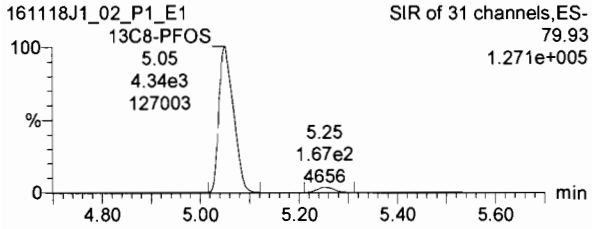
PFDA



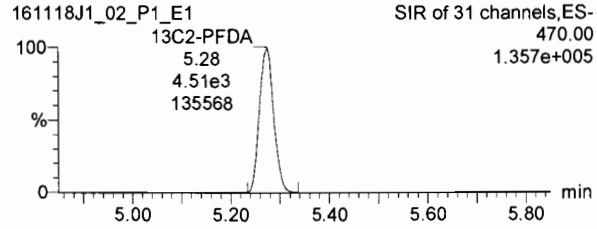
8:2 FTS



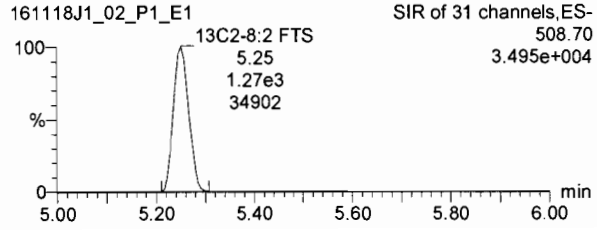
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



TargetLynx - untitled *

File Edit View Display Processing Window Help

161118J1_02_P1_E1 - ST161118J1-1 PFC C3.5 16K1421 - PFC C3.5 16K1421 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBA	168.90	2.85e4		1.000	1.88	1.88	29.3	YES	117.0	0.0000000
2	PFPeA	218.90	2.74e4		1.000	3.09	3.09	29.3	YES	117.3	0.0000000
3	PFBS	79.90	1.36e4		1.000	3.39	3.39	30.6	YES	122.4	0.0000000
4	PFHxA	268.90	2.54e4		1.000	3.79	3.80	30.5	YES	122.1	0.0000000
5	PFHpA	318.90	1.94e4		1.000	4.27	4.27	29.8	YES	119.4	0.0000000
6	PFHxS	79.91	1.17e4		1.000	4.39	4.39	30.1	YES	120.3	0.0000000
7	6:2 FTS	408.90	6.95e3		1.000	4.62	4.62	31.2	YES	124.8	0.0000000
8	PFOA	368.90	2.38e4		1.000	4.67	4.67	26.4	YES	105.6	0.0000000
9	PFNA	419.00	1.56e4		1.000	4.99	4.99	27.4	YES	109.6	0.0003916
10	PFOS	79.92	1.20e4		1.000	5.06	5.05	27.5	YES	110.2	0.0000000
11	PFDA	469.00	9.78e3		1.000	5.28	5.28	26.8	YES	107.0	0.0412440
12	8:2 FTS	508.90	2.80e3		1.000	5.25	5.25	27.1	YES	106.6	0.0771352
13	13C3-PFBA	172.00	1.17e4	0.894	1.000	1.88	1.88	10.8	YES	86.1	0.0032095
14	13C3-PFPeA	221.90	1.28e4	0.945	1.000	3.17	3.09	11.0	YES	87.7	0.0024789
15	13C3-PFBS	79.95	7.09e3	0.531	1.000	3.43	3.39	10.8	NO	86.4	0.0006093
16	13C2-PFHxA	289.90	4.87e3	0.905	1.000	3.79	3.79	4.38	YES	87.1	0.0001623
17	13C4-PFHpA	321.90	9.64e3	0.770	1.000	4.26	4.27	10.1	NO	81.2	0.0006836
18	18O2-PFHxS	102.90	1.50e3	0.276	1.000	4.38	4.39	10.8	NO	86.3	0.0023411
19	13C2-6:2 FTS	408.90	3.11e3	0.219	1.000	4.63	4.62	12.7	YES	101.9	0.0030464
20	13C2-PFOA	369.90	9.03e3	0.663	1.000	4.67	4.67	12.2	NO	97.6	0.0008620
21	13C5-PFNA	422.90	7.98e3	1.02	1.000	4.99	4.99	10.9	NO	87.6	0.0006094
22	13C8-PFOS	79.93	4.34e3	0.921	1.000	5.05	5.05	11.7	NO	93.5	0.0025882
23	13C2-PFDA	470.00	4.51e3	0.887	1.000	5.28	5.28	10.1	YES	81.2	0.0012703
24	13C2-8:2 FTS	508.70	1.27e3	0.272	1.000	5.23	5.25	9.30	YES	74.4	0.0016611
25	13C4-PFBA	171.90	1.51e4	1.00	1.000	1.95	1.88	12.5	YES	100.0	0.0024301
26	13C5-PFHxA	273.00	1.54e4	1.00	1.000	3.83	3.79	12.5	NO	100.0	0.0005990
27	13C4-PFHxS	80.01	6.26e3	1.00	1.000	4.43	4.38	12.5	NO	100.0	0.0015730

Chromatogram

161118J1_02_P1_E1 Smooth(Mn,1x2)
PFC C3.5 16K1421 A ST161118J1-1 PFC C3.5 16K1421
SIR of 31 channels ES-
408.90
2.157e+005

6:2 FTS;4.62;6950;93.6;95e3;215164;MM;33449.76

100 %

0 min

161118J1_02_P1_E1 Smooth(Mn,1x2)
PFC C3.5 16K1421 A ST161118J1-1 PFC C3.5 16K1421
SIR of 31 channels ES-
408.90
8.656e+004

13C2-6:2 FTS;4.62;3108.00;3.11e3;86554;MM;8757.68

100 %

0 min

4.540 4.550 4.560 4.570 4.580 4.590 4.600 4.610 4.620 4.630 4.640 4.650 4.660 4.670 4.680 4.690 4.700 4.710 4.720 4.730 4.740 4.750 4.760 4.770 4.780 4.790 4.800 4.810 4.820 4.830 4.840 4.850

Ready 161118J1_02_P1_E1 NUM

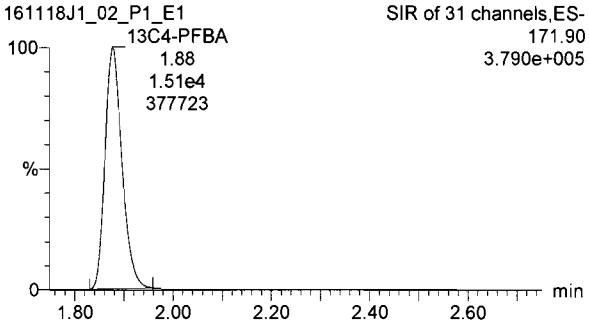
Vista Analytical Laboratory Q2

Dataset: Untitled

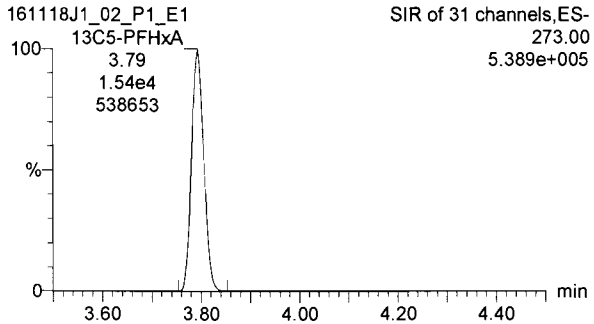
Last Altered: Saturday, November 19, 2016 12:27:47 Pacific Standard Time
Printed: Saturday, November 19, 2016 12:27:55 Pacific Standard Time

Name: 161118J1_02.wiff, Date: 18-Nov-2016, Time: 14:59:37, ID: ST161118J1-1 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

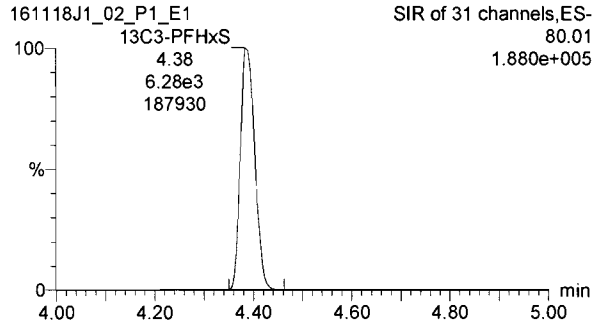
13C4-PFBA



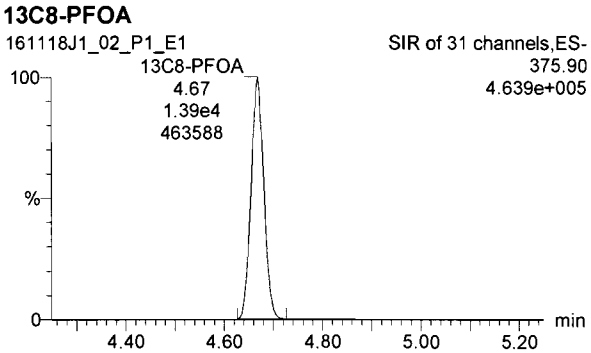
13C5-PFHxA



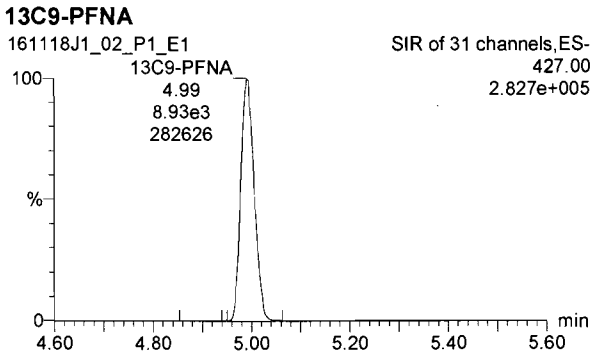
13C3-PFHxS



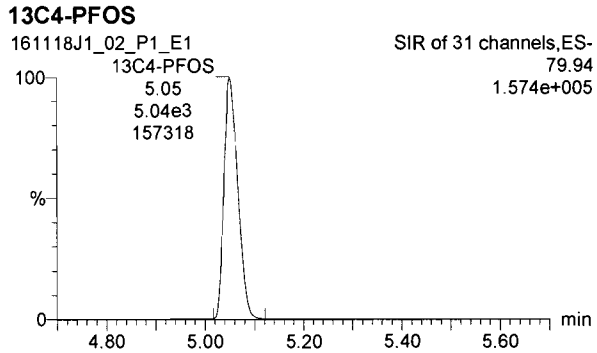
13C8-PFOA



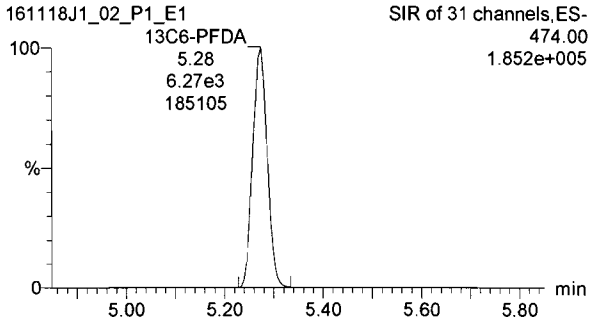
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161118J1\161118J1_10.qld

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Printed: Saturday, November 19, 2016 12:36:50 Pacific Standard Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161118J1_10.wiff, Date: 18-Nov-2016, Time: 16:37:24, ID: ST161118J1-2 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.85e4	1.16e4		1.000	1.90	29.5	117.8	75-125
2	2	PFPeA	218.90	2.81e4	1.30e4		1.000	3.10	29.8	119.0	
3	3	PFBS	79.90	1.44e4	7.58e3		1.000	3.40	30.3	121.3	
4	4	PFHxA	268.90	2.45e4	4.76e3		1.000	3.80	30.1	120.5	
5	5	PFHpA	318.90	2.01e4	9.41e3		1.000	4.27	31.5	126.2	A
6	6	PFHxS	79.91	1.09e4	1.43e3		1.000	4.39	29.2	116.9	
7	7	6:2 FTS	406.90	6.44e3	2.86e3		1.000	4.63	31.4	125.6	A
8	8	PFOA	368.90	2.47e4	9.42e3		1.000	4.67	26.3	105.0	
9	9	PFNA	419.00	1.59e4	7.97e3		1.000	5.01	27.6	110.5	
10	10	PFOS	79.92	1.06e4	4.09e3		1.000	5.07	25.6	102.6	
11	11	PFDA	469.00	9.16e3	4.06e3		1.000	5.30	27.9	111.7	
12	12	8:2 FTS	506.90	2.47e3	1.15e3		1.000	5.27	26.2	105.0	
13	13	13C3-PFBA	172.00	1.16e4	1.51e4	0.894	1.000	1.90	10.7	85.3	60-150
14	14	13C3-PFPeA	221.90	1.30e4	1.52e4	0.945	1.000	3.10	11.2	89.9	
15	15	13C3-PFBS	79.95	7.58e3	1.52e4	0.531	1.000	3.40	11.7	93.8	
16	16	13C2-PFHxA	269.90	4.76e3	1.52e4	0.905	1.000	3.80	4.31	86.3	
17	17	13C4-PFHpA	321.90	9.41e3	1.52e4	0.770	1.000	4.27	10.0	80.3	
18	18	18O2-PFHxS	102.90	1.43e3	5.81e3	0.276	1.000	4.39	11.2	89.2	
19	19	13C2-6:2 FTS	408.90	2.86e3	1.50e4	0.219	1.000	4.63	10.9	87.3	40-150
20	20	13C2-PFOA	369.90	9.42e3	1.50e4	0.663	1.000	4.67	11.8	94.6	60-150
21	21	13C5-PFNA	422.90	7.97e3	9.35e3	1.019	1.000	5.00	10.5	83.6	50-150
22	22	13C8-PFOS	79.93	4.09e3	4.48e3	0.921	1.000	5.07	12.4	99.1	60-150
23	23	13C2-PFDA	470.00	4.06e3	5.35e3	0.887	1.000	5.29	10.7	85.5	
24	24	13C2-8:2 FTS	508.70	1.15e3	5.35e3	0.272	1.000	5.27	9.90	79.2	40-150
25	25	13C4-PFBA	171.90	1.51e4	1.51e4	1.000	1.000	1.90	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.52e4	1.52e4	1.000	1.000	3.80	12.5	100.0	
27	27	13C3-PFHxS	80.01	5.81e3	5.81e3	1.000	1.000	4.39	12.5	100.0	
28	28	13C8-PFOA	375.90	1.50e4	1.50e4	1.000	1.000	4.67	12.5	100.0	
29	29	13C4-PFOS	79.94	4.48e3	4.48e3	1.000	1.000	5.06	12.5	100.0	
30	30	13C9-PFNA	427.00	9.35e3	9.35e3	1.000	1.000	5.01	12.5	100.0	
31	31	13C6-PFDA	474.00	5.35e3	5.35e3	1.000	1.000	5.29	12.5	100.0	

AC
11/19/16

(A) Not used in this sequence.

Printing Time: 12:40:53
Printing Date: Saturday, November 19, 2016

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161118J1_01	11/18/2016 14:47:23	IPA	IPA
2	161118J1_02	11/18/2016 14:59:37	ST161118J1-1 PFC C3.5 16K1421	PFC C3.5 16K1421 A
3	161118J1_03	11/18/2016 15:11:51	IPA	IPA
4	161118J1_04	11/18/2016 15:24:05	1601395-03	26SW01_161101
5	161118J1_05	11/18/2016 15:36:19	1601395-04	26SW04_161101
6	161118J1_06	11/18/2016 15:48:33	1601395-12	EB18_161101
7	161118J1_07	11/18/2016 16:00:46	1601360-02	EB-M05-02_161025
8	161118J1_08	11/18/2016 16:12:57	1601442@5X	OF-INF01-110816
9	161118J1_09	11/18/2016 16:25:09	IPA	IPA
10	161118J1_10	11/18/2016 16:37:24	ST161118J1-2 PFC C3.5 16K1421	PFC C3.5 16K1421 A
11	161118J1_11	11/18/2016 16:49:37	IPA	IPA

Quantify Sample Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q2

Dataset: Untitled

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Printed: Saturday, November 19, 2016 12:28:12 Pacific Standard Time

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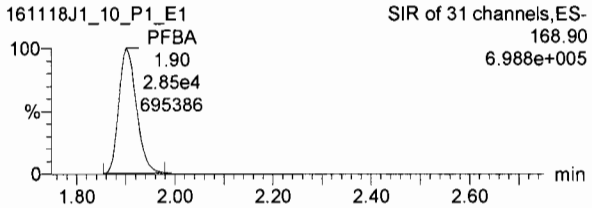
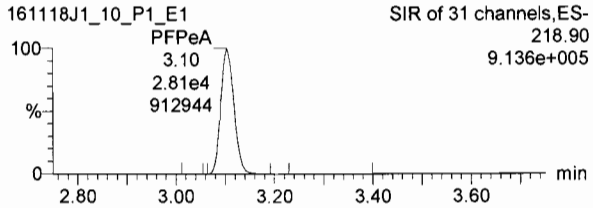
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161118J1_10.wiff, Date: 18-Nov-2016, Time: 16:37:24, ID: ST161118J1-2 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

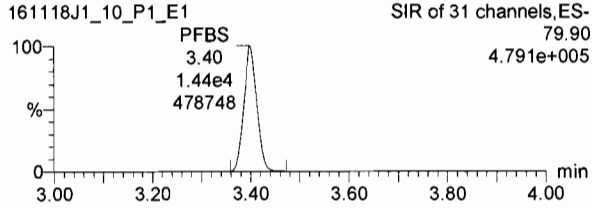
PFBA



PFPeA



PFBS



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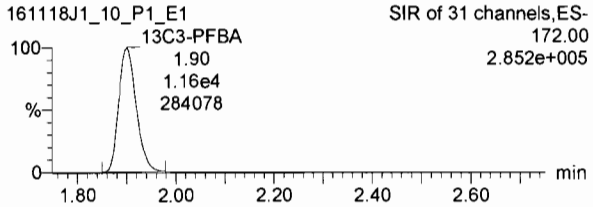
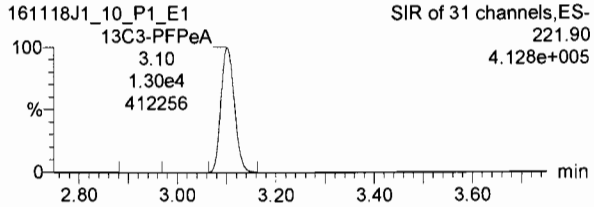


13C3-PFPeA



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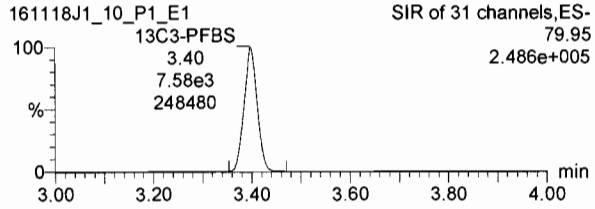

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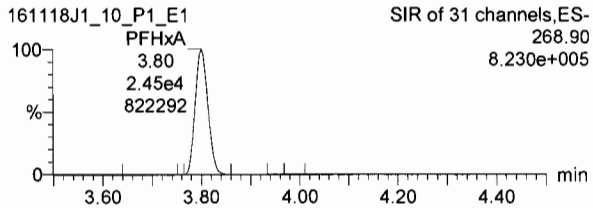

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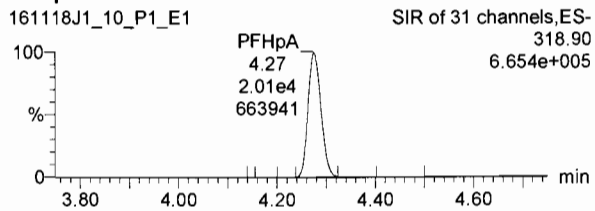
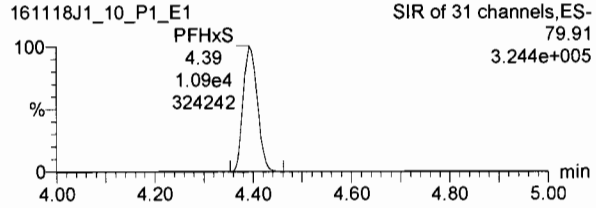


PFHxS



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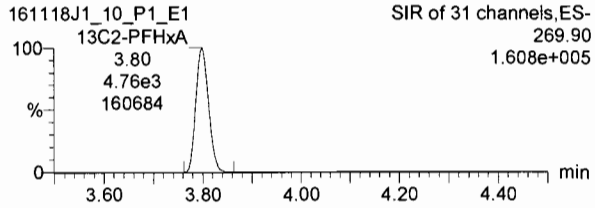

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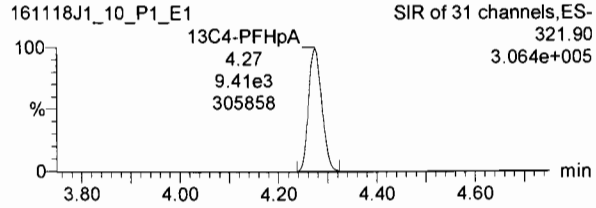
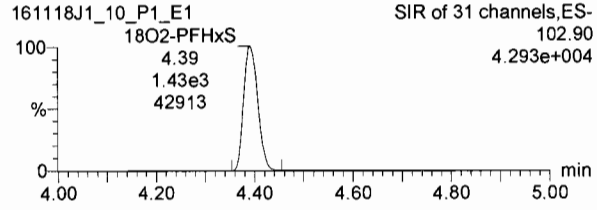


18O2-PFHxS



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Name: 161118J1_10.wiff, Date: 18-Nov-2016, Time: 16:37:24, ID: ST161118J1-2 PFC C3.5 16K1421, Description: PFC C3.5 16K1421 A

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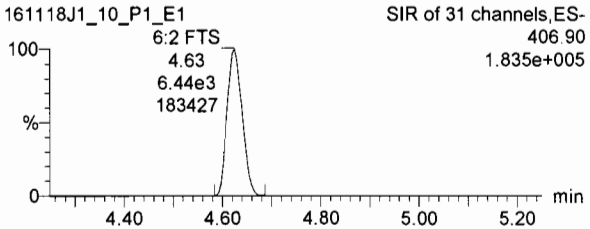
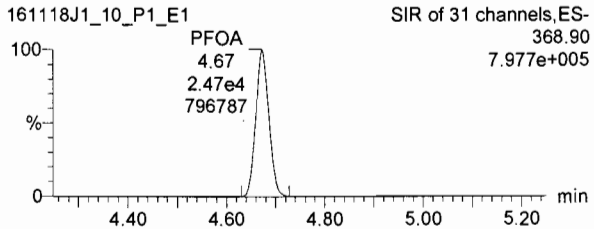
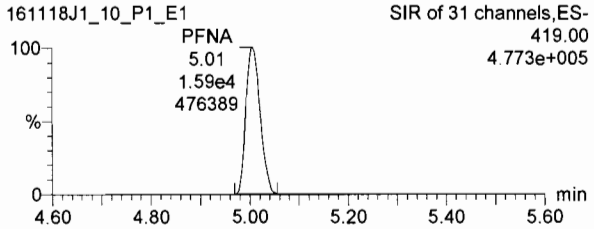


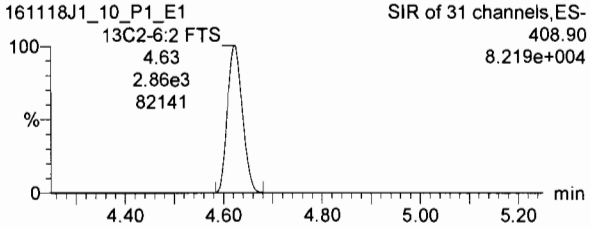
PFOA



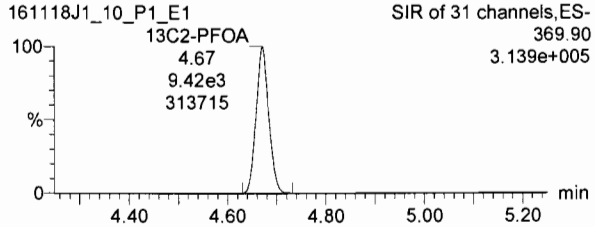
PFNA



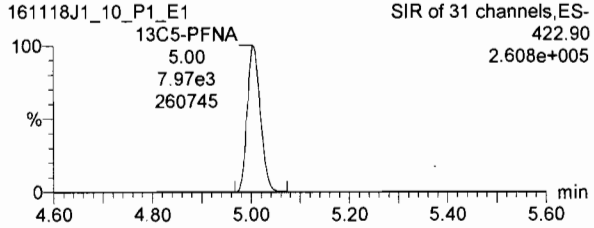
13C2-6:2 FTS



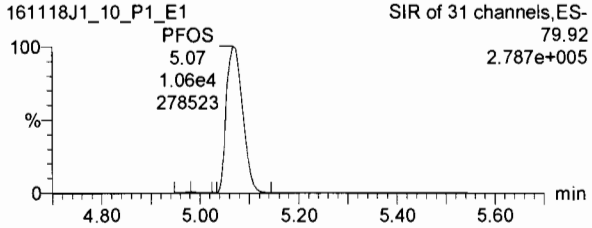
13C2-PFOA



13C5-PFNA



PFOS



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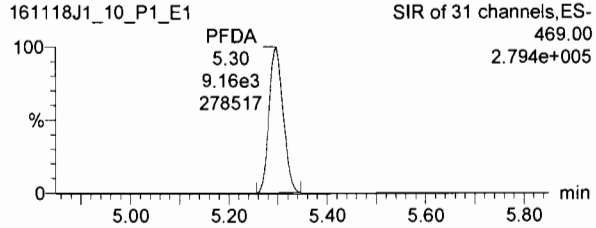
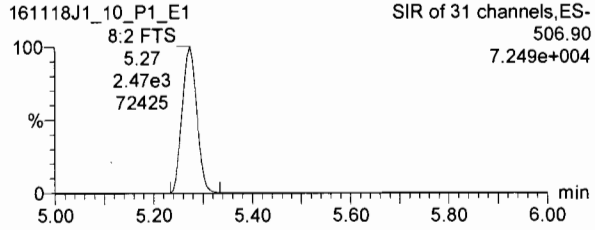
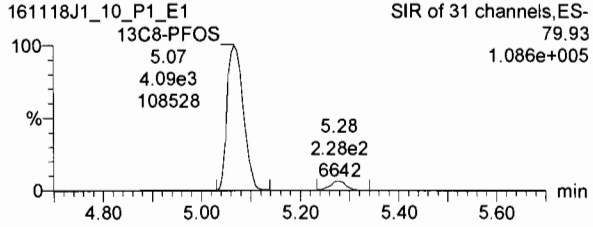


8:2 FTS



13C8-PFOS



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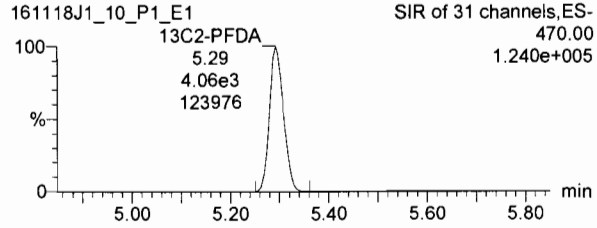

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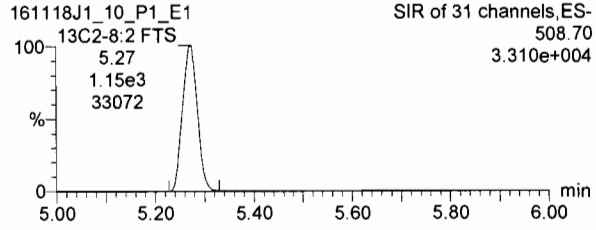

Vista Analytical Laboratory Q2

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Printed: Saturday, November 19, 2016 12:28:12 Pacific Standard Time

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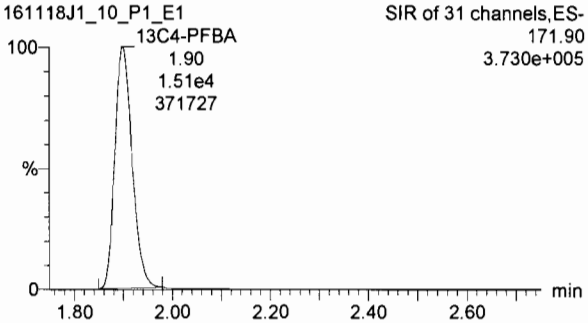
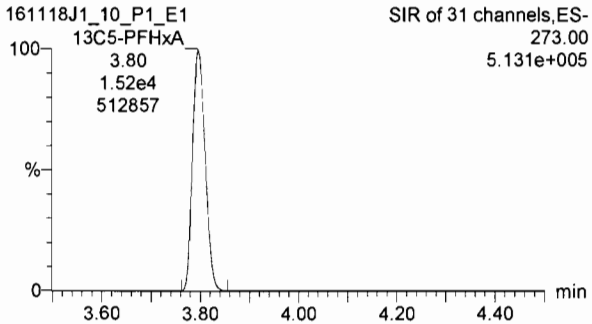
13C4-PFBA



13C5-PFHxA



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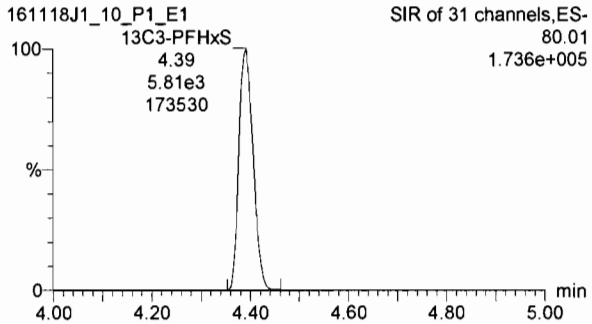

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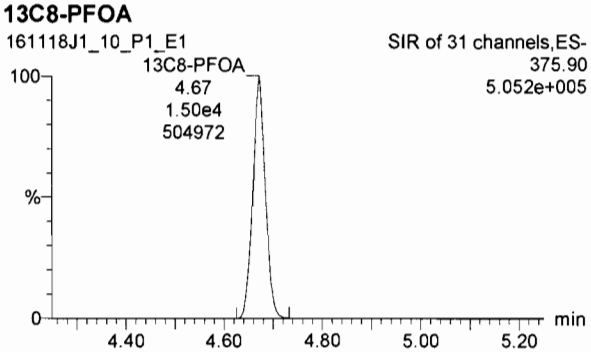
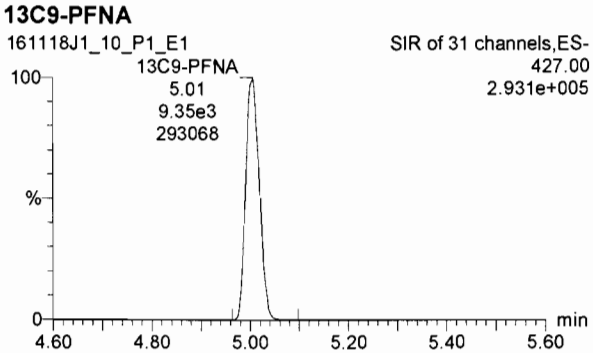
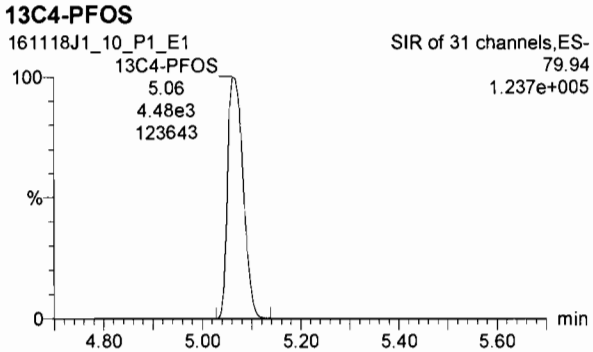


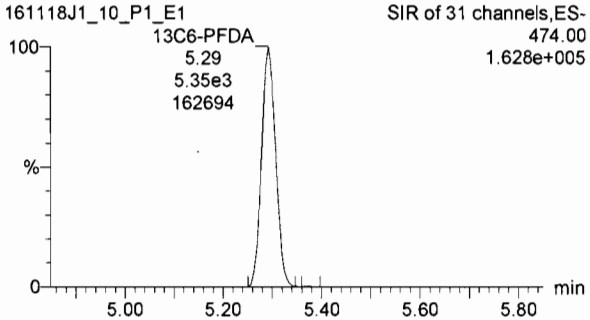
13C9-PFNA



13C4-PFOS



13C6-PFDA



INITIAL CALIBRATION

Quantify Compound Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:21:56 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Compound name: PFBA
Correlation coefficient: r = 0.999075, r^2 = 0.998151
Calibration curve: 1.02763 * x + 0.0539483
Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

PW 11/10/16

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161109J3_02_P1_...	0.125	1.98	3.31e2	1.22e4	0.276	121.0	2.70
2	2	161109J3_03_P1_...	0.500	1.98	6.01e2	1.10e4	0.609	21.8	1.36
3	3	161109J3_04_P1_...	1.00	1.99	1.04e3	1.14e4	1.05	5.2	1.14
4	4	161109J3_05_P1_...	2.00	1.98	2.13e3	1.26e4	1.99	-0.3	1.05
5	5	161109J3_06_P1_...	5.00	1.99	5.01e3	1.23e4	4.88	-2.3	1.01
6	6	161109J3_07_P1_...	10.0	1.99	1.11e4	1.15e4	11.7	16.8	1.21
7	7	161109J3_08_P1_...	25.0	1.99	2.35e4	1.12e4	25.4	1.7	1.05
8	8	161109J3_09_P1_...	50.0	1.98	4.96e4	1.18e4	51.2	2.4	1.05
9	9	161109J3_10_P1_...	75.0	1.99	6.99e4	1.13e4	75.0	0.0	1.03
10	10	161109J3_11_P1_E1	100	1.99	9.00e4	1.13e4	96.6	-3.4	0.993

✓ AC 11/10/16

Compound name: PFPeA
Correlation coefficient: r = 0.998809, r^2 = 0.997619
Calibration curve: 0.905707 * x + 0.0437176
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

File 161109J3_02, std CS(-2), used for PFOS only, is excluded from regression curve for all other analytes.
PW 11/10/16

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1	161109J3_02_P1_...	0.125	3.15	3.01e2	1.34e4	0.262	109.8	2.25
2	2	161109J3_03_P1_...	0.500	3.15	5.46e2	1.20e4	0.580	16.0	1.14
3	3	161109J3_04_P1_...	1.00	3.15	1.01e3	1.28e4	1.05	4.9	0.993
4	4	161109J3_05_P1_...	2.00	3.16	2.02e3	1.37e4	1.98	-0.8	0.920
5	5	161109J3_06_P1_...	5.00	3.16	4.87e3	1.35e4	4.95	-1.1	0.905
6	6	161109J3_07_P1_...	10.0	3.16	1.09e4	1.27e4	11.9	18.6	1.08
7	7	161109J3_08_P1_...	25.0	3.16	2.31e4	1.25e4	25.4	1.4	0.920
8	8	161109J3_09_P1_...	50.0	3.16	4.70e4	1.25e4	52.0	4.0	0.942
9	9	161109J3_10_P1_...	75.0	3.17	6.63e4	1.22e4	74.7	-0.4	0.903

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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Compound name: PFPeA

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
10	10	161109J3_11_P1_E1	100	3.16	8.29e4	1.19e4	96.0	-4.0	0.870

Compound name: PFBS
Correlation coefficient: r = 0.999446, r^2 = 0.998892
Calibration curve: 0.831163 * x + 0.0100022
Response type: Internal Std (Ref 15), 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	161109J3_02_P1_...	0.125	3.44	1.49e2	8.21e3	0.261	108.8	1.82
2	2	161109J3_03_P1_...	0.500	3.44	2.75e2	7.16e3	0.566	13.2	0.960
3	3	161109J3_04_P1_...	1.00	3.44	5.04e2	7.34e3	1.02	2.1	0.858
4	4	161109J3_05_P1_...	2.00	3.44	1.06e3	8.39e3	1.89	-5.7	0.789
5	5	161109J3_06_P1_...	5.00	3.45	2.58e3	8.41e3	4.60	-7.9	0.767
6	6	161109J3_07_P1_...	10.0	3.44	5.68e3	7.56e3	11.3	12.9	0.939
7	7	161109J3_08_P1_...	25.0	3.44	1.21e4	7.56e3	24.0	-3.8	0.800
8	8	161109J3_09_P1_...	50.0	3.44	2.45e4	7.54e3	48.8	-2.4	0.811
9	9	161109J3_10_P1_...	75.0	3.45	3.53e4	7.05e3	75.3	0.3	0.834
10	10	161109J3_11_P1_E1	100	3.45	4.61e4	6.86e3	101	1.0	0.840

Compound name: PFHxA
Correlation coefficient: r = 0.998528, r^2 = 0.997059
Calibration curve: 0.827734 * x + 0.0381401
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	161109J3_02_P1_...	0.125	3.83	2.67e2	4.86e3	0.286	128.8	2.20
2	2	161109J3_03_P1_...	0.500	3.82	4.67e2	4.45e3	0.587	17.4	1.05
3	3	161109J3_04_P1_...	1.00	3.83	8.32e2	4.68e3	1.03	2.6	0.888
4	4	161109J3_05_P1_...	2.00	3.83	1.78e3	5.30e3	1.99	-0.7	0.841
5	5	161109J3_06_P1_...	5.00	3.83	4.19e3	5.25e3	4.78	-4.4	0.799
6	6	161109J3_07_P1_...	10.0	3.83	9.20e3	4.62e3	12.0	19.8	0.995
7	7	161109J3_08_P1_...	25.0	3.83	1.92e4	4.54e3	25.5	2.1	0.846

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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Compound name: PFHxA

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
8	8	161109J3_09_P1_...	50.0	3.83	4.05e4	4.65e3	52.6	5.2	0.872
9	9	161109J3_10_P1_...	75.0	3.84	5.65e4	4.59e3	74.3	-0.9	0.821
10	10	161109J3_11_P1_E1	100	3.84	7.26e4	4.58e3	95.7	-4.3	0.793

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998133
Calibration curve: -0.000863271 * x^2 + 0.907348 * x + 0.00270844
Response type: Internal Std (Ref 17), 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	161109J3_02_P1_...	0.125	4.32	2.05e2	9.82e3	0.285	128.2	2.09
2	2	161109J3_03_P1_...	0.500	4.31	3.46e2	9.06e3	0.523	4.6	0.954
3	3	161109J3_04_P1_...	1.00	4.32	7.16e2	9.65e3	1.02	2.1	0.928
4	4	161109J3_05_P1_...	2.00	4.32	1.44e3	1.01e4	1.97	-1.7	0.891
5	5	161109J3_06_P1_...	5.00	4.32	3.62e3	1.06e4	4.72	-5.5	0.854
6	6	161109J3_07_P1_...	10.0	4.32	7.51e3	9.68e3	10.8	8.0	0.970
7	7	161109J3_08_P1_...	25.0	4.32	1.63e4	1.00e4	22.9	-8.3	0.814
8	8	161109J3_09_P1_...	50.0	4.32	3.61e4	1.04e4	50.5	1.1	0.873
9	9	161109J3_10_P1_...	75.0	4.33	5.23e4	9.89e3	78.7	5.0	0.881
10	10	161109J3_11_P1_E1	100	4.33	6.53e4	1.02e4	97.3	-2.7	0.801

Compound name: PFHxS
Correlation coefficient: r = 0.998956, r^2 = 0.997912
Calibration curve: 3.24824 * x + 0.159985
Response type: Internal Std (Ref 18), 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	161109J3_02_P1_...	0.125	4.43	1.26e2	1.64e3	0.247	97.6	7.70
2	2	161109J3_03_P1_...	0.500	4.42	2.32e2	1.47e3	0.558	11.6	3.94
3	3	161109J3_04_P1_...	1.00	4.44	4.35e2	1.45e3	1.10	10.2	3.74
4	4	161109J3_05_P1_...	2.00	4.43	8.65e2	1.68e3	1.94	-3.1	3.23
5	5	161109J3_06_P1_...	5.00	4.44	2.04e3	1.55e3	5.02	0.4	3.29

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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Compound name: PFHxS

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
6	6	161109J3_07_P1_...	10.0	4.43	4.55e3	1.47e3	11.8	18.3	3.86
7	7	161109J3_08_P1_...	25.0	4.43	9.70e3	1.42e3	26.2	4.8	3.41
8	8	161109J3_09_P1_...	50.0	4.44	2.00e4	1.51e3	51.0	2.0	3.32
9	9	161109J3_10_P1_...	75.0	4.45	2.79e4	1.46e3	73.2	-2.4	3.17
10	10	161109J3_11_P1_E1	100	4.44	3.66e4	1.44e3	97.7	-2.3	3.17

Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.997393
Calibration curve: -0.0022536 * x^2 + 1.05713 * x + 0.0303277
Response type: Internal Std (Ref 19), 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	161109J3_02_P1_...	0.125	4.67	6.61e1	2.49e3	0.285	128.1	2.65
2	2	161109J3_03_P1_...	0.500	4.66	1.11e2	2.29e3	0.543	8.5	1.21
3	3	161109J3_04_P1_...	1.00	4.67	2.10e2	2.34e3	1.03	3.4	1.12
4	4	161109J3_05_P1_...	2.00	4.66	4.51e2	2.49e3	2.12	6.0	1.13
5	5	161109J3_06_P1_...	5.00	4.68	1.04e3	2.62e3	4.71	-5.7	0.993
6	6	161109J3_07_P1_...	10.0	4.66	2.21e3	2.30e3	11.6	16.3	1.20
7	7	161109J3_08_P1_...	25.0	4.66	4.84e3	2.50e3	24.1	-3.8	0.966
8	8	161109J3_09_P1_...	50.0	4.67	1.01e4	2.66e3	50.2	0.5	0.949
9	9	161109J3_10_P1_...	75.0	4.68	1.50e4	2.96e3	70.4	-6.1	0.844
10	10	161109J3_11_P1_E1	100	4.68	1.95e4	2.84e3	104	4.2	0.857

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
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Compound name: PFOA
Correlation coefficient: r = 0.997868, r^2 = 0.995741
Calibration curve: 1.13489 * x + 0.0922771
Response type: Internal Std (Ref 20), 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	161109J3_02_P1_...	0.125	4.71	3.32e2	8.66e3	0.341	172.8	3.83
2	2	161109J3_03_P1_...	0.500	4.70	4.71e2	7.62e3	0.600	19.9	1.55
3	3	161109J3_04_P1_...	1.00	4.71	9.34e2	8.84e3	1.08	8.3	1.32
4	4	161109J3_05_P1_...	2.00	4.71	1.88e3	9.12e3	2.19	9.5	1.29
5	5	161109J3_06_P1_...	5.00	4.72	4.19e3	8.66e3	5.25	4.9	1.21
6	6	161109J3_07_P1_...	10.0	4.71	9.21e3	8.34e3	12.1	20.8	1.38
7	7	161109J3_08_P1_...	25.0	4.70	1.97e4	8.38e3	25.8	3.3	1.18
8	8	161109J3_09_P1_...	50.0	4.71	4.20e4	9.07e3	51.0	2.0	1.16
9	9	161109J3_10_P1_...	75.0	4.73	5.95e4	8.47e3	77.3	3.0	1.17
10	10	161109J3_11_P1_E1	100	4.72	7.29e4	8.61e3	93.2	-6.8	1.06

Compound name: PFNA
Correlation coefficient: r = 0.998141, r^2 = 0.996285
Calibration curve: 0.921487 * x + 0.0274481
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	161109J3_02_P1_...	0.125	5.05	1.96e2	9.25e3	0.257	105.8	2.12
2	2	161109J3_03_P1_...	0.500	5.03	2.90e2	6.64e3	0.563	12.6	1.09
3	3	161109J3_04_P1_...	1.00	5.03	5.65e2	7.66e3	0.971	-2.9	0.922
4	4	161109J3_05_P1_...	2.00	5.04	1.49e3	8.32e3	2.39	19.7	1.12
5	5	161109J3_06_P1_...	5.00	5.05	3.49e3	1.03e4	4.58	-8.4	0.850
6	6	161109J3_07_P1_...	10.0	5.03	5.60e3	6.66e3	11.4	13.7	1.05
7	7	161109J3_08_P1_...	25.0	5.04	1.37e4	8.47e3	21.9	-12.5	0.808
8	8	161109J3_09_P1_...	50.0	5.04	2.98e4	8.34e3	48.5	-3.1	0.894
9	9	161109J3_10_P1_...	75.0	5.07	5.47e4	9.39e3	79.0	5.4	0.971
10	10	161109J3_11_P1_E1	100	5.06	6.91e4	9.45e3	99.2	-0.8	0.915

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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Compound name: PFOS
Correlation coefficient: r = 0.997845, r^2 = 0.995694
Calibration curve: 1.16253 * x + 0.110699
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.	%Dev	RRF
1	1	161109J3_02_P1_...	0.125	5.11	8.59e1	3.67e3	0.156	25.1	2.34
2	2	161109J3_03_P1_...	0.500	5.09	1.85e2	3.17e3	0.532	6.4	1.46
3	3	161109J3_04_P1_...	1.00	5.10	3.52e2	3.84e3	0.892	-10.8	1.15
4	4	161109J3_05_P1_...	2.00	5.10	6.61e2	3.90e3	1.73	-13.5	1.06
5	5	161109J3_06_P1_...	5.00	5.11	1.87e3	4.36e3	4.50	-10.0	1.07
6	6	161109J3_07_P1_...	10.0	5.09	3.22e3	3.31e3	10.4	3.7	1.22
7	7	161109J3_08_P1_...	25.0	5.10	9.21e3	4.27e3	23.1	-7.6	1.08
8	8	161109J3_09_P1_...	50.0	5.11	1.78e4	3.64e3	52.6	5.1	1.22
9	9	161109J3_10_P1_...	75.0	5.12	2.40e4	3.20e3	80.5	7.3	1.25
10	10	161109J3_11_P1_E1	100	5.12	3.24e4	3.69e3	94.3	-5.7	1.10

Compound name: PFDA
Correlation coefficient: r = 0.988136, r^2 = 0.976414
Calibration curve: 1.08471 * x + -0.0180413
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	161109J3_02_P1_...	0.125	5.33	8.55e1	3.14e3	0.331	164.5	2.72
2	2	161109J3_03_P1_...	0.500	5.32	1.58e2	3.53e3	0.533	6.6	1.12
3	3	161109J3_04_P1_...	1.00	5.31	2.96e2	3.56e3	0.974	-2.6	1.04
4	4	161109J3_05_P1_...	2.00	5.32	5.92e2	3.67e3	1.87	-6.3	1.01
5	5	161109J3_06_P1_...	5.00	5.33	1.62e3	4.22e3	4.45	-11.0	0.961
6	6	161109J3_07_P1_...	10.0	5.31	2.66e3	2.99e3	10.3	2.6	1.11
7	7	161109J3_08_P1_...	25.0	5.32	8.99e3	4.33e3	24.0	-4.1	1.04
8	8	161109J3_09_P1_...	50.0	5.33	1.33e4	3.48e3	44.0	-12.0	0.954
9	9	161109J3_10_P1_...	75.0	5.36	2.36e4	2.92e3	93.1	24.1	1.35
10	10	161109J3_11_P1_E1	100	5.34	3.14e4	4.05e3	89.4	-10.6	0.970

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.997106
Calibration curve: -0.00199324 * x^2 + 1.02188 * x + 0.0278518
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	161109J3_02_P1_...	0.125	5.30	2.56e1	9.98e2	0.287	129.2	2.56
2	2	161109J3_03_P1_...	0.500	5.29	5.02e1	1.01e3	0.584	16.7	1.25
3	3	161109J3_04_P1_...	1.00	5.30	8.21e1	1.06e3	0.921	-7.9	0.967
4	4	161109J3_05_P1_...	2.00	5.30	1.96e2	1.21e3	1.96	-1.8	1.01
5	5	161109J3_06_P1_...	5.00	5.31	5.19e2	1.24e3	5.16	3.2	1.05
6	6	161109J3_07_P1_...	10.0	5.29	8.29e2	8.70e2	11.9	19.1	1.19
7	7	161109J3_08_P1_...	25.0	5.30	2.39e3	1.27e3	24.2	-3.1	0.944
8	8	161109J3_09_P1_...	50.0	5.31	3.74e3	1.08e3	46.5	-7.1	0.864
9	9	161109J3_10_P1_...	75.0	5.33	5.00e3	9.43e2	76.1	1.5	0.884
10	10	161109J3_11_P1_E1	100	5.32	8.32e3	1.25e3	101	1.3	0.831

Compound name: 13C3-PFBA
Response Factor: 0.874958
RRF SD: 0.0502169, Relative SD: 5.73935
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	161109J3_02_P1_...	12.5	1.98	1.22e4	1.54e4	11.4	-9.1	0.795
2	2	161109J3_03_P1_...	12.5	1.98	1.10e4	1.39e4	11.3	-9.2	0.794
3	3	161109J3_04_P1_...	12.5	1.99	1.14e4	1.43e4	11.4	-8.7	0.799
4	4	161109J3_05_P1_...	12.5	1.98	1.26e4	1.41e4	12.9	2.8	0.899
5	5	161109J3_06_P1_...	12.5	1.99	1.23e4	1.41e4	12.5	0.0	0.875
6	6	161109J3_07_P1_...	12.5	1.98	1.15e4	1.31e4	12.6	1.0	0.883
7	7	161109J3_08_P1_...	12.5	1.99	1.12e4	1.18e4	13.6	8.6	0.950
8	8	161109J3_09_P1_...	12.5	1.98	1.18e4	1.29e4	13.0	4.3	0.913
9	9	161109J3_10_P1_...	12.5	1.99	1.13e4	1.29e4	12.5	0.1	0.876
10	10	161109J3_11_P1_E1	12.5	1.99	1.13e4	1.28e4	12.7	1.2	0.886

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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Compound name: 13C3-PFPeA
Response Factor: 0.956444
RRF SD: 0.0591475, Relative SD: 6.1841
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	161109J3_02_P1_...	12.5	3.15	1.34e4	1.51e4	11.6	-7.6	0.884
2	2	161109J3_03_P1_...	12.5	3.15	1.20e4	1.39e4	11.3	-10.0	0.861
3	3	161109J3_04_P1_...	12.5	3.15	1.28e4	1.43e4	11.7	-6.7	0.892
4	4	161109J3_05_P1_...	12.5	3.15	1.37e4	1.38e4	13.0	4.2	0.996
5	5	161109J3_06_P1_...	12.5	3.16	1.35e4	1.44e4	12.2	-2.0	0.937
6	6	161109J3_07_P1_...	12.5	3.15	1.27e4	1.32e4	12.6	0.6	0.962
7	7	161109J3_08_P1_...	12.5	3.16	1.25e4	1.18e4	14.0	11.6	1.07
8	8	161109J3_09_P1_...	12.5	3.16	1.25e4	1.30e4	12.6	0.7	0.963
9	9	161109J3_10_P1_...	12.5	3.17	1.22e4	1.25e4	12.7	1.9	0.975
10	10	161109J3_11_P1_E1	12.5	3.16	1.19e4	1.25e4	12.5	-0.3	0.953

Compound name: 13C3-PFBS
Response Factor: 0.570172
RRF SD: 0.0420314, Relative SD: 7.3717
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	161109J3_02_P1_...	12.5	3.44	8.21e3	1.51e4	11.9	-4.6	0.544
2	2	161109J3_03_P1_...	12.5	3.44	7.16e3	1.39e4	11.3	-9.8	0.514
3	3	161109J3_04_P1_...	12.5	3.44	7.34e3	1.43e4	11.3	-9.9	0.514
4	4	161109J3_05_P1_...	12.5	3.44	8.39e3	1.38e4	13.4	6.8	0.609
5	5	161109J3_06_P1_...	12.5	3.45	8.41e3	1.44e4	12.8	2.7	0.586
6	6	161109J3_07_P1_...	12.5	3.44	7.56e3	1.32e4	12.6	0.5	0.573
7	7	161109J3_08_P1_...	12.5	3.44	7.56e3	1.18e4	14.1	12.8	0.643
8	8	161109J3_09_P1_...	12.5	3.44	7.54e3	1.30e4	12.8	2.1	0.582
9	9	161109J3_10_P1_...	12.5	3.45	7.05e3	1.25e4	12.3	-1.4	0.562
10	10	161109J3_11_P1_E1	12.5	3.45	6.86e3	1.25e4	12.0	-3.8	0.549

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Compound name: 13C2-PFHxA
Response Factor: 0.8961
RRF SD: 0.0570882, Relative SD: 6.37074
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	161109J3_02_P1_...	5.00	3.83	4.86e3	1.51e4	4.49	-10.3	0.804
2	2	161109J3_03_P1_...	5.00	3.82	4.45e3	1.39e4	4.46	-10.8	0.799
3	3	161109J3_04_P1_...	5.00	3.83	4.68e3	1.43e4	4.57	-8.6	0.819
4	4	161109J3_05_P1_...	5.00	3.83	5.30e3	1.38e4	5.37	7.4	0.962
5	5	161109J3_06_P1_...	5.00	3.83	5.25e3	1.44e4	5.09	1.8	0.913
6	6	161109J3_07_P1_...	5.00	3.83	4.62e3	1.32e4	4.89	-2.2	0.877
7	7	161109J3_08_P1_...	5.00	3.83	4.54e3	1.18e4	5.39	7.9	0.967
8	8	161109J3_09_P1_...	5.00	3.83	4.65e3	1.30e4	5.00	0.0	0.896
9	9	161109J3_10_P1_...	5.00	3.84	4.59e3	1.25e4	5.11	2.2	0.915
10	10	161109J3_11_P1_E1	5.00	3.84	4.58e3	1.25e4	5.12	2.3	0.917

Compound name: 13C4-PFHpA
Response Factor: 0.754052
RRF SD: 0.0658188, Relative SD: 8.72868
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	161109J3_02_P1_...	12.5	4.32	9.82e3	1.51e4	10.8	-13.8	0.650
2	2	161109J3_03_P1_...	12.5	4.31	9.06e3	1.39e4	10.8	-13.7	0.651
3	3	161109J3_04_P1_...	12.5	4.32	9.65e3	1.43e4	11.2	-10.5	0.675
4	4	161109J3_05_P1_...	12.5	4.32	1.01e4	1.38e4	12.2	-2.6	0.734
5	5	161109J3_06_P1_...	12.5	4.32	1.06e4	1.44e4	12.2	-2.3	0.737
6	6	161109J3_07_P1_...	12.5	4.32	9.68e3	1.32e4	12.2	-2.6	0.734
7	7	161109J3_08_P1_...	12.5	4.32	1.00e4	1.18e4	14.1	13.1	0.853
8	8	161109J3_09_P1_...	12.5	4.32	1.04e4	1.30e4	13.2	6.0	0.799
9	9	161109J3_10_P1_...	12.5	4.33	9.89e3	1.25e4	13.1	4.6	0.789
10	10	161109J3_11_P1_E1	12.5	4.33	1.02e4	1.25e4	13.5	8.1	0.815

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Compound name: 18O2-PFHxS
Response Factor: 0.266981
RRF SD: 0.0156041, Relative SD: 5.84465
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	161109J3_02_P1_...	12.5	4.43	1.64e3	6.12e3	12.5	0.2	0.267
2	2	161109J3_03_P1_...	12.5	4.42	1.47e3	6.03e3	11.4	-8.8	0.244
3	3	161109J3_04_P1_...	12.5	4.44	1.45e3	5.93e3	11.5	-8.2	0.245
4	4	161109J3_05_P1_...	12.5	4.43	1.68e3	6.01e3	13.1	4.4	0.279
5	5	161109J3_06_P1_...	12.5	4.44	1.55e3	5.95e3	12.2	-2.5	0.260
6	6	161109J3_07_P1_...	12.5	4.43	1.47e3	5.44e3	12.7	1.6	0.271
7	7	161109J3_08_P1_...	12.5	4.43	1.42e3	5.06e3	13.2	5.3	0.281
8	8	161109J3_09_P1_...	12.5	4.43	1.51e3	5.20e3	13.6	8.5	0.290
9	9	161109J3_10_P1_...	12.5	4.44	1.46e3	5.46e3	12.5	0.4	0.268
10	10	161109J3_11_P1_E1	12.5	4.44	1.44e3	5.44e3	12.4	-0.7	0.265

Compound name: 13C2-6:2 FTS
Response Factor: 0.193152
RRF SD: 0.0249884, Relative SD: 12.9372
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	161109J3_02_P1_...	12.5	4.66	2.49e3	1.54e4	10.5	-16.3	0.162
2	2	161109J3_03_P1_...	12.5	4.66	2.29e3	1.29e4	11.5	-7.9	0.178
3	3	161109J3_04_P1_...	12.5	4.67	2.34e3	1.46e4	10.4	-17.2	0.160
4	4	161109J3_05_P1_...	12.5	4.66	2.49e3	1.50e4	10.7	-14.0	0.166
5	5	161109J3_06_P1_...	12.5	4.67	2.62e3	1.43e4	11.9	-4.8	0.184
6	6	161109J3_07_P1_...	12.5	4.66	2.30e3	1.21e4	12.3	-1.9	0.189
7	7	161109J3_08_P1_...	12.5	4.66	2.50e3	1.19e4	13.6	8.8	0.210
8	8	161109J3_09_P1_...	12.5	4.66	2.66e3	1.37e4	12.6	0.5	0.194
9	9	161109J3_10_P1_...	12.5	4.68	2.96e3	1.32e4	14.5	15.9	0.224
10	10	161109J3_11_P1_E1	12.5	4.68	2.84e3	1.22e4	15.1	20.7	0.233

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Compound name: 13C2-PFOA
Response Factor: 0.64555
RRF SD: 0.0454281, Relative SD: 7.03711
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	161109J3_02_P1_...	12.5	4.71	8.66e3	1.54e4	10.9	-12.9	0.562
2	2	161109J3_03_P1_...	12.5	4.70	7.62e3	1.29e4	11.5	-8.3	0.592
3	3	161109J3_04_P1_...	12.5	4.71	8.84e3	1.46e4	11.7	-6.4	0.604
4	4	161109J3_05_P1_...	12.5	4.71	9.12e3	1.50e4	11.8	-5.9	0.607
5	5	161109J3_06_P1_...	12.5	4.72	8.66e3	1.43e4	11.8	-5.9	0.608
6	6	161109J3_07_P1_...	12.5	4.71	8.34e3	1.21e4	13.3	6.5	0.687
7	7	161109J3_08_P1_...	12.5	4.70	8.38e3	1.19e4	13.6	8.9	0.703
8	8	161109J3_09_P1_...	12.5	4.71	9.07e3	1.37e4	12.8	2.4	0.661
9	9	161109J3_10_P1_...	12.5	4.73	8.47e3	1.32e4	12.4	-0.7	0.641
10	10	161109J3_11_P1_E1	12.5	4.72	8.61e3	1.22e4	13.7	9.4	0.706

Compound name: 13C5-PFNA
Response Factor: 0.971971
RRF SD: 0.0744438, Relative SD: 7.65905
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	161109J3_02_P1_...	12.5	5.05	9.25e3	9.56e3	12.4	-0.4	0.968
2	2	161109J3_03_P1_...	12.5	5.03	6.64e3	7.57e3	11.3	-9.9	0.876
3	3	161109J3_04_P1_...	12.5	5.03	7.66e3	8.67e3	11.4	-9.1	0.883
4	4	161109J3_05_P1_...	12.5	5.04	8.32e3	8.35e3	12.8	2.4	0.996
5	5	161109J3_06_P1_...	12.5	5.05	1.03e4	1.00e4	13.2	5.4	1.02
6	6	161109J3_07_P1_...	12.5	5.03	6.66e3	7.06e3	12.1	-3.0	0.943
7	7	161109J3_08_P1_...	12.5	5.04	8.47e3	7.61e3	14.3	14.5	1.11
8	8	161109J3_09_P1_...	12.5	5.04	8.34e3	8.28e3	12.9	3.6	1.01
9	9	161109J3_10_P1_...	12.5	5.06	9.39e3	1.01e4	11.9	-4.8	0.925
10	10	161109J3_11_P1_E1	12.5	5.05	9.45e3	9.63e3	12.6	1.0	0.981

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Compound name: 13C8-PFOS
Response Factor: 0.922164
RRF SD: 0.0749245, Relative SD: 8.12486
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	161109J3_02_P1_...	12.5	5.11	3.67e3	4.35e3	11.4	-8.5	0.844
2	2	161109J3_03_P1_...	12.5	5.09	3.17e3	3.99e3	10.7	-14.0	0.793
3	3	161109J3_04_P1_...	12.5	5.10	3.84e3	4.16e3	12.5	0.1	0.923
4	4	161109J3_05_P1_...	12.5	5.10	3.90e3	4.25e3	12.4	-0.7	0.916
5	5	161109J3_06_P1_...	12.5	5.11	4.36e3	4.73e3	12.5	0.0	0.923
6	6	161109J3_07_P1_...	12.5	5.09	3.31e3	3.15e3	14.3	14.2	1.05
7	7	161109J3_08_P1_...	12.5	5.10	4.27e3	4.23e3	13.7	9.5	1.01
8	8	161109J3_09_P1_...	12.5	5.10	3.64e3	3.82e3	12.9	3.5	0.954
9	9	161109J3_10_P1_...	12.5	5.12	3.20e3	3.64e3	11.9	-4.7	0.879
10	10	161109J3_11_P1_E1	12.5	5.11	3.69e3	3.98e3	12.6	0.5	0.927

Compound name: 13C2-PFDA
Response Factor: 0.846217
RRF SD: 0.0646469, Relative SD: 7.63951
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	161109J3_02_P1_...	12.5	5.32	3.14e3	4.84e3	9.58	-23.3	0.649
2	2	161109J3_03_P1_...	12.5	5.31	3.53e3	4.20e3	12.4	-0.8	0.840
3	3	161109J3_04_P1_...	12.5	5.31	3.56e3	4.67e3	11.3	-9.7	0.764
4	4	161109J3_05_P1_...	12.5	5.32	3.67e3	4.71e3	11.5	-7.9	0.779
5	5	161109J3_06_P1_...	12.5	5.33	4.22e3	4.94e3	12.6	0.8	0.853
6	6	161109J3_07_P1_...	12.5	5.31	2.99e3	3.58e3	12.3	-1.2	0.836
7	7	161109J3_08_P1_...	12.5	5.32	4.33e3	4.50e3	14.2	13.7	0.962
8	8	161109J3_09_P1_...	12.5	5.32	3.48e3	3.83e3	13.4	7.6	0.910
9	9	161109J3_10_P1_...	12.5	5.35	2.92e3	3.70e3	11.7	-6.6	0.790
10	10	161109J3_11_P1_E1	12.5	5.33	4.05e3	4.59e3	13.0	4.3	0.882

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Compound name: 13C2-8:2 FTS
Response Factor: 0.256513
RRF SD: 0.019105, Relative SD: 7.44798
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	161109J3_02_P1_...	12.5	5.30	9.98e2	4.84e3	10.1	-19.6	0.206
2	2	161109J3_03_P1_...	12.5	5.29	1.01e3	4.20e3	11.7	-6.6	0.239
3	3	161109J3_04_P1_...	12.5	5.30	1.06e3	4.67e3	11.1	-11.3	0.227
4	4	161109J3_05_P1_...	12.5	5.30	1.21e3	4.71e3	12.5	0.2	0.257
5	5	161109J3_06_P1_...	12.5	5.31	1.24e3	4.94e3	12.2	-2.5	0.250
6	6	161109J3_07_P1_...	12.5	5.29	8.70e2	3.58e3	11.9	-5.2	0.243
7	7	161109J3_08_P1_...	12.5	5.30	1.27e3	4.50e3	13.7	9.6	0.281
8	8	161109J3_09_P1_...	12.5	5.31	1.08e3	3.83e3	13.8	10.2	0.283
9	9	161109J3_10_P1_...	12.5	5.32	9.43e2	3.70e3	12.4	-0.7	0.255
10	10	161109J3_11_P1_E1	12.5	5.31	1.25e3	4.59e3	13.3	6.3	0.273

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	161109J3_02_P1_...	12.5	1.98	1.54e4	1.54e4	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	1.98	1.39e4	1.39e4	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	1.98	1.43e4	1.43e4	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	1.98	1.41e4	1.41e4	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	1.99	1.41e4	1.41e4	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	1.98	1.31e4	1.31e4	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	1.98	1.18e4	1.18e4	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	1.98	1.29e4	1.29e4	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	1.99	1.29e4	1.29e4	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	1.99	1.28e4	1.28e4	12.5	0.0	1.00

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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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	161109J3_02_P1_...	12.5	3.83	1.51e4	1.51e4	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	3.82	1.39e4	1.39e4	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	3.83	1.43e4	1.43e4	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	3.83	1.38e4	1.38e4	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	3.83	1.44e4	1.44e4	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	3.83	1.32e4	1.32e4	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	3.83	1.18e4	1.18e4	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	3.83	1.30e4	1.30e4	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	3.84	1.25e4	1.25e4	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	3.84	1.25e4	1.25e4	12.5	0.0	1.00

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	161109J3_02_P1_...	12.5	4.43	6.12e3	6.12e3	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	4.42	6.03e3	6.03e3	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	4.43	5.93e3	5.93e3	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	4.43	6.01e3	6.01e3	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	4.44	5.95e3	5.95e3	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	4.43	5.44e3	5.44e3	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	4.43	5.06e3	5.06e3	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	4.43	5.20e3	5.20e3	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	4.44	5.46e3	5.46e3	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	4.44	5.44e3	5.44e3	12.5	0.0	1.00

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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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	161109J3_02_P1_...	12.5	4.71	1.54e4	1.54e4	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	4.70	1.29e4	1.29e4	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	4.71	1.46e4	1.46e4	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	4.71	1.50e4	1.50e4	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	4.72	1.43e4	1.43e4	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	4.71	1.21e4	1.21e4	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	4.70	1.19e4	1.19e4	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	4.71	1.37e4	1.37e4	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	4.73	1.32e4	1.32e4	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	4.72	1.22e4	1.22e4	12.5	0.0	1.00

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	161109J3_02_P1_...	12.5	5.11	4.35e3	4.35e3	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	5.09	3.99e3	3.99e3	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	5.09	4.16e3	4.16e3	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	5.10	4.25e3	4.25e3	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	5.11	4.73e3	4.73e3	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	5.09	3.15e3	3.15e3	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	5.10	4.23e3	4.23e3	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	5.10	3.82e3	3.82e3	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	5.12	3.64e3	3.64e3	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	5.11	3.98e3	3.98e3	12.5	0.0	1.00

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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	161109J3_02_P1_...	12.5	5.04	9.56e3	9.56e3	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	5.03	7.57e3	7.57e3	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	5.03	8.67e3	8.67e3	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	5.04	8.35e3	8.35e3	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	5.05	1.00e4	1.00e4	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	5.03	7.06e3	7.06e3	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	5.04	7.61e3	7.61e3	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	5.04	8.28e3	8.28e3	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	5.06	1.01e4	1.01e4	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	5.06	9.63e3	9.63e3	12.5	0.0	1.00

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	161109J3_02_P1_...	12.5	5.32	4.84e3	4.84e3	12.5	0.0	1.00
2	2	161109J3_03_P1_...	12.5	5.31	4.20e3	4.20e3	12.5	0.0	1.00
3	3	161109J3_04_P1_...	12.5	5.31	4.67e3	4.67e3	12.5	0.0	1.00
4	4	161109J3_05_P1_...	12.5	5.32	4.71e3	4.71e3	12.5	0.0	1.00
5	5	161109J3_06_P1_...	12.5	5.33	4.94e3	4.94e3	12.5	0.0	1.00
6	6	161109J3_07_P1_...	12.5	5.31	3.58e3	3.58e3	12.5	0.0	1.00
7	7	161109J3_08_P1_...	12.5	5.32	4.50e3	4.50e3	12.5	0.0	1.00
8	8	161109J3_09_P1_...	12.5	5.32	3.83e3	3.83e3	12.5	0.0	1.00
9	9	161109J3_10_P1_...	12.5	5.35	3.70e3	3.70e3	12.5	0.0	1.00
10	10	161109J3_11_P1_E1	12.5	5.33	4.59e3	4.59e3	12.5	0.0	1.00

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Compound name: Total PFBS
Correlation coefficient: r = 0.999446, r^2 = 0.998892
Calibration curve: 0.831163 * x + 0.0100022
Response type: Internal Std (Ref 15), 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	161109J3_02_P1_...	0.125			8.21e3	0.261		
2	2	161109J3_03_P1_...	0.500			7.16e3	0.566		
3	3	161109J3_04_P1_...	1.00			7.34e3	1.02		
4	4	161109J3_05_P1_...	2.00			8.39e3	1.89		
5	5	161109J3_06_P1_...	5.00			8.41e3	4.60		
6	6	161109J3_07_P1_...	10.0			7.56e3	11.3		
7	7	161109J3_08_P1_...	25.0			7.56e3	24.0		
8	8	161109J3_09_P1_...	50.0			7.54e3	48.8		
9	9	161109J3_10_P1_...	75.0			7.05e3	75.3		
10	10	161109J3_11_P1_E1	100			6.86e3	101		

Compound name: Total PFHxS
Correlation coefficient: r = 0.998956, r^2 = 0.997912
Calibration curve: 3.24824 * x + 0.159985
Response type: Internal Std (Ref 18), 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	161109J3_02_P1_...	0.125			1.64e3	0.247		
2	2	161109J3_03_P1_...	0.500			1.47e3	0.558		
3	3	161109J3_04_P1_...	1.00			1.45e3	1.10		
4	4	161109J3_05_P1_...	2.00			1.68e3	1.94		
5	5	161109J3_06_P1_...	5.00			1.55e3	5.02		
6	6	161109J3_07_P1_...	10.0			1.47e3	11.8		
7	7	161109J3_08_P1_...	25.0			1.42e3	26.2		
8	8	161109J3_09_P1_...	50.0			1.51e3	51.0		
9	9	161109J3_10_P1_...	75.0			1.46e3	73.2		
10	10	161109J3_11_P1_E1	100			1.44e3	97.7		

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Compound name: Total PFOA
Correlation coefficient: r = 0.997868, r^2 = 0.995741
Calibration curve: 1.13489 * x + 0.0922771
Response type: Internal Std (Ref 20), 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	161109J3_02_P1_...	0.125			8.66e3	0.341		
2	2	161109J3_03_P1_...	0.500			7.62e3	0.600		
3	3	161109J3_04_P1_...	1.00			8.84e3	1.08		
4	4	161109J3_05_P1_...	2.00			9.12e3	2.19		
5	5	161109J3_06_P1_...	5.00			8.66e3	5.25		
6	6	161109J3_07_P1_...	10.0			8.34e3	12.1		
7	7	161109J3_08_P1_...	25.0			8.38e3	25.8		
8	8	161109J3_09_P1_...	50.0			9.07e3	51.0		
9	9	161109J3_10_P1_...	75.0			8.47e3	77.3		
10	10	161109J3_11_P1_E1	100			8.61e3	93.2		

Compound name: Total PFOS
Correlation coefficient: r = 0.997845, r^2 = 0.995694
Calibration curve: 1.16253 * x + 0.110699
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.	%Dev	RRF
1	1	161109J3_02_P1_...	0.125			3.67e3	0.156		
2	2	161109J3_03_P1_...	0.500			3.17e3	0.532		
3	3	161109J3_04_P1_...	1.00			3.84e3	0.892		
4	4	161109J3_05_P1_...	2.00			3.90e3	1.73		
5	5	161109J3_06_P1_...	5.00			4.36e3	4.50		
6	6	161109J3_07_P1_...	10.0			3.31e3	10.4		
7	7	161109J3_08_P1_...	25.0			4.27e3	23.1		
8	8	161109J3_09_P1_...	50.0			3.64e3	52.6		
9	9	161109J3_10_P1_...	75.0			3.20e3	80.7		
10	10	161109J3_11_P1_E1	100			3.69e3	94.5		

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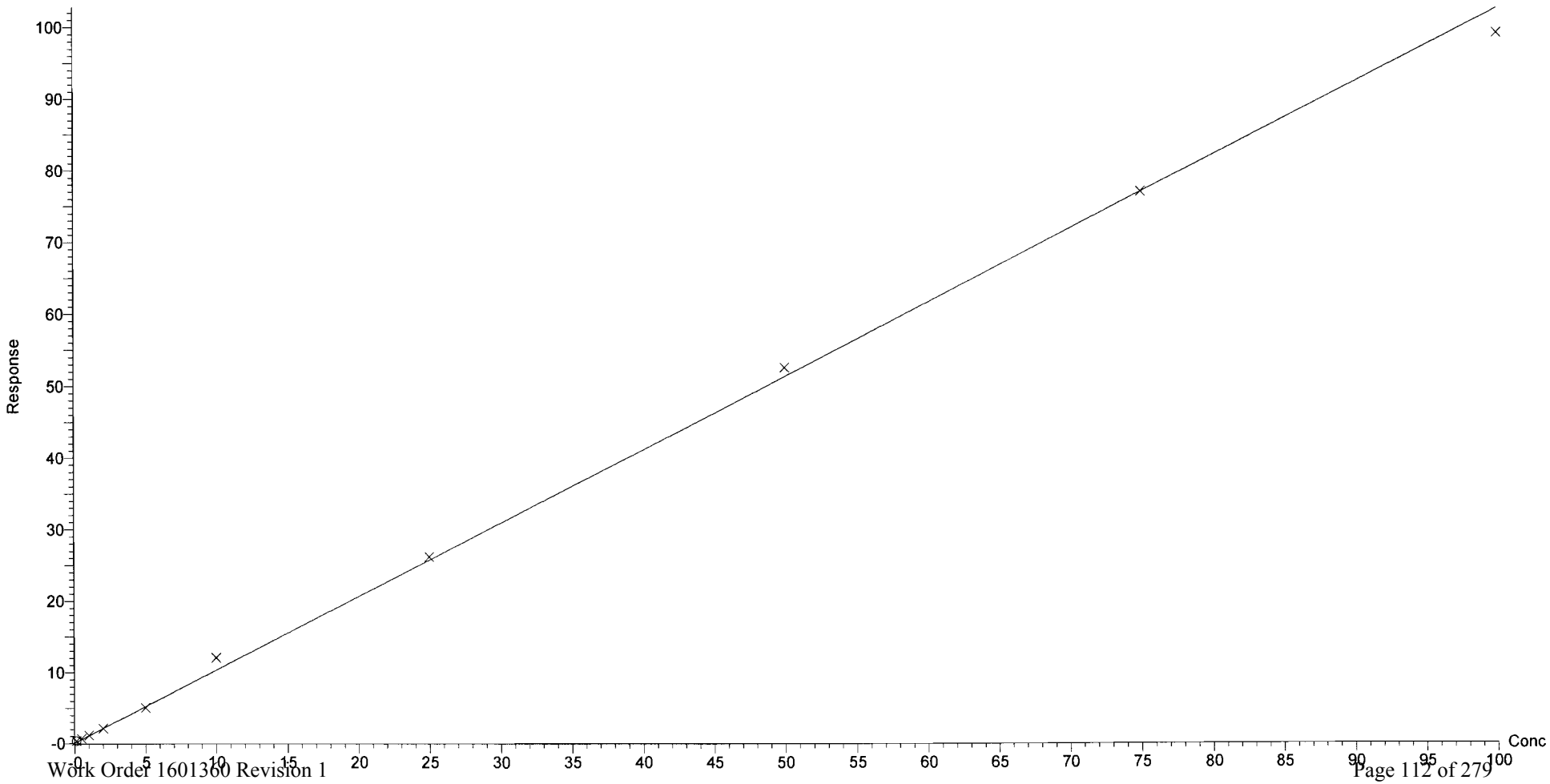
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Compound name: PFBA
Correlation coefficient: r = 0.999075, r^2 = 0.998151
Calibration curve: 1.02763 * x + 0.0539483
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\161109J3\161109J3crv.qld

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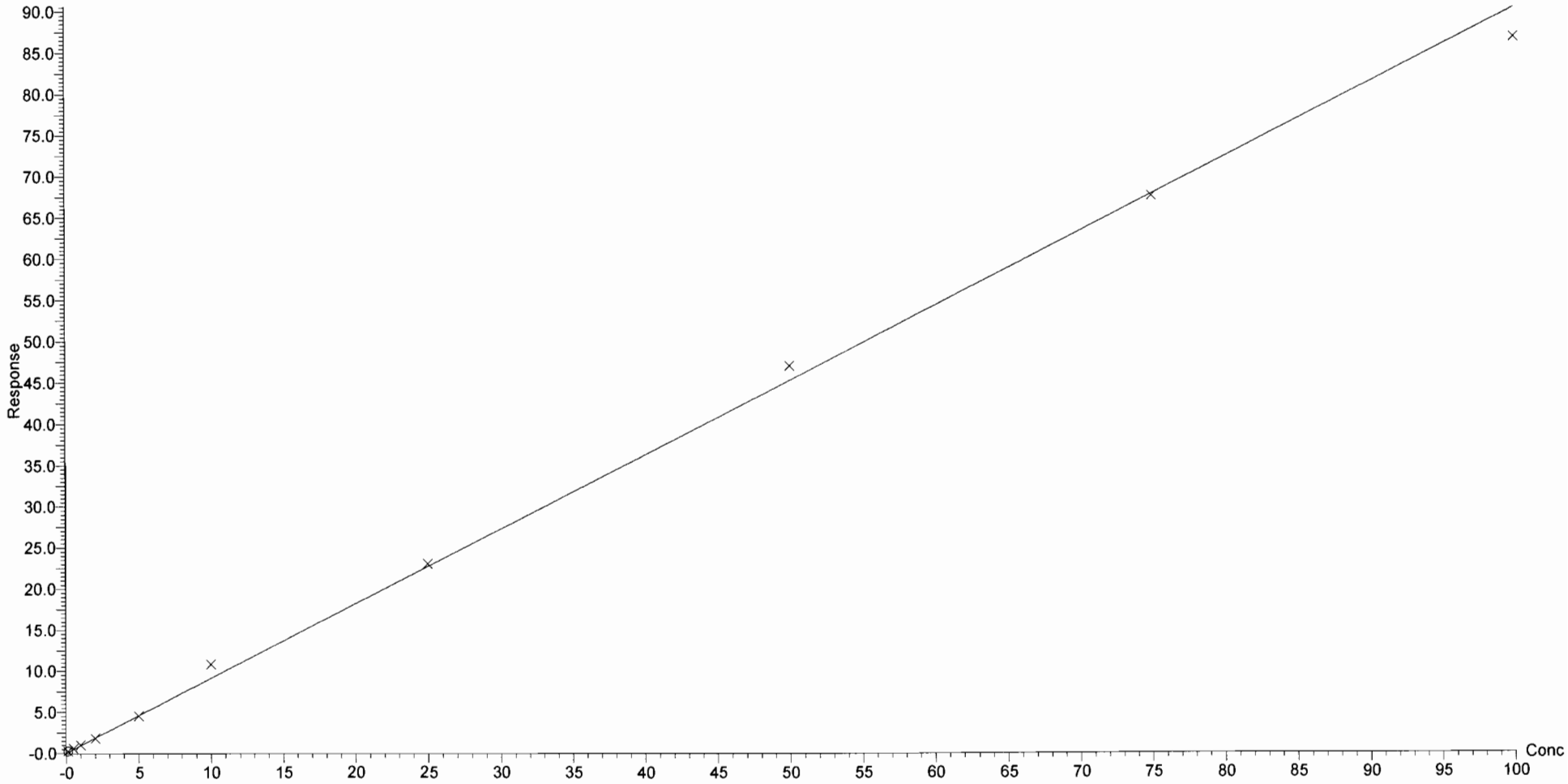
Compound name: PFPeA
Correlation coefficient: r = 0.998809, r^2 = 0.997619
Calibration curve: 0.905707 * x + 0.0437176
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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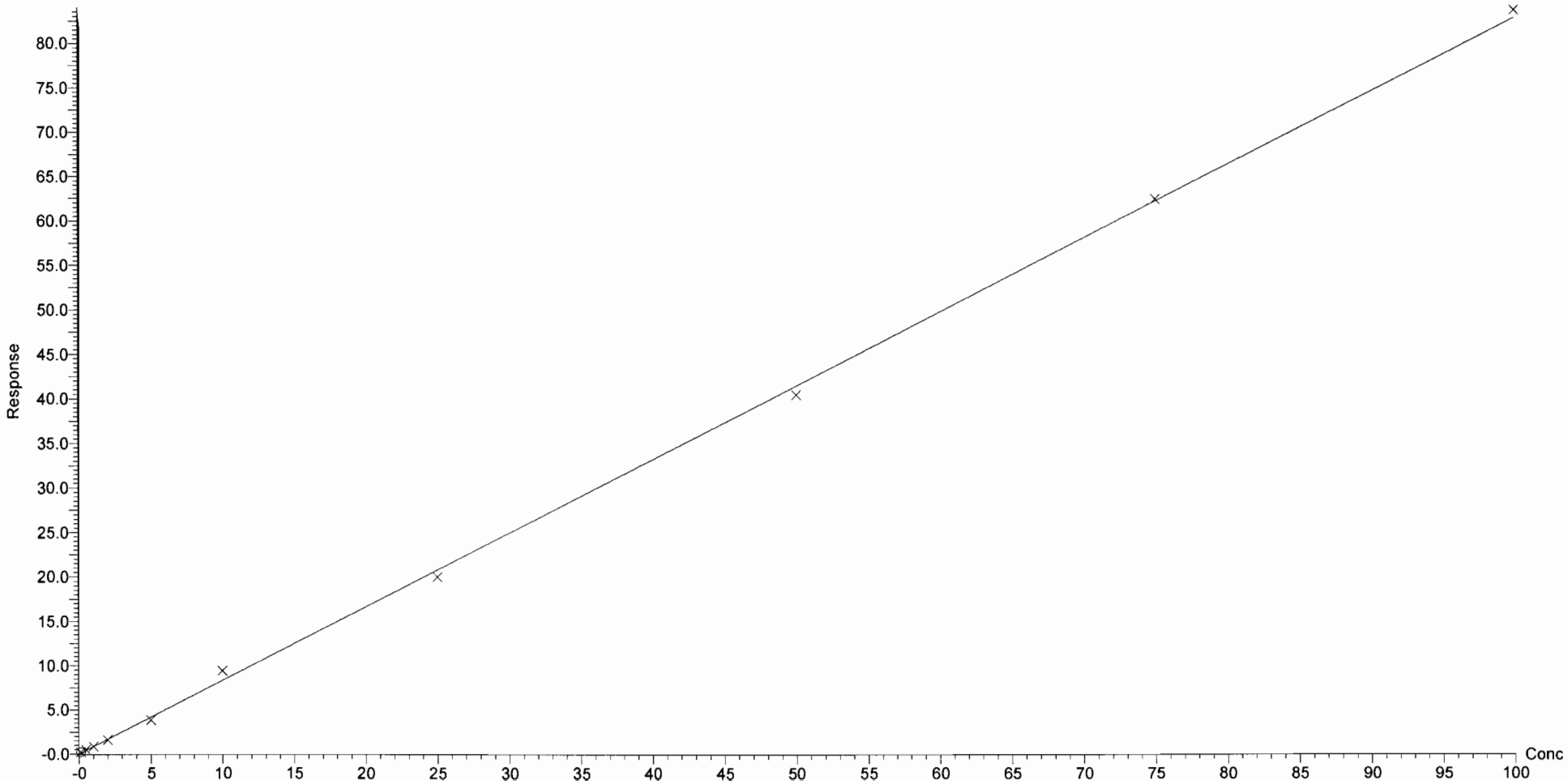
Compound name: PFBS
Correlation coefficient: r = 0.999446, r^2 = 0.998892
Calibration curve: 0.831163 * x + 0.0100022
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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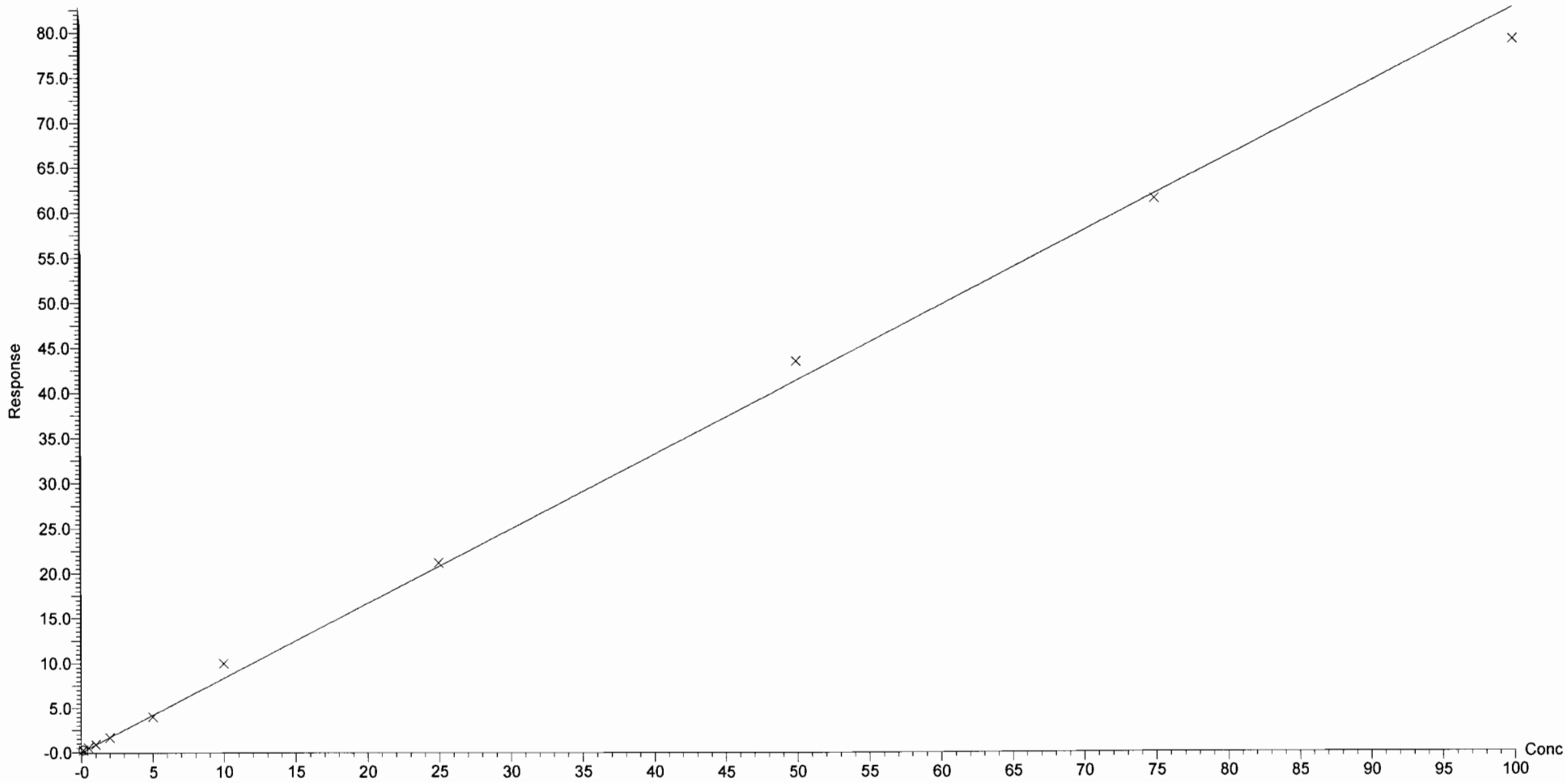
Compound name: PFHxA
Correlation coefficient: r = 0.998528, r^2 = 0.997059
Calibration curve: 0.827734 * x + 0.0381401
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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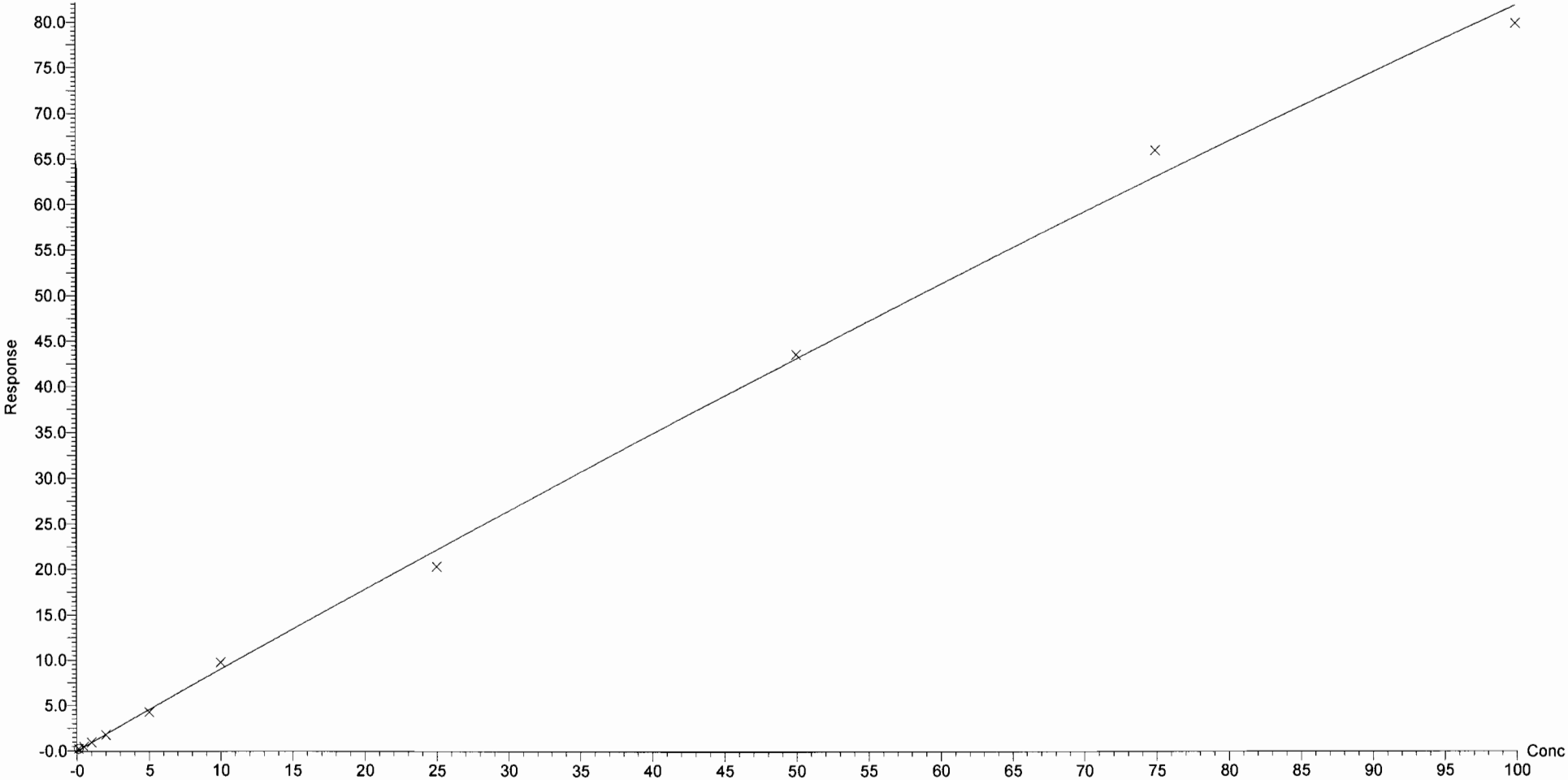
Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998133
Calibration curve: -0.000863271 * x^2 + 0.907348 * x + 0.00270844
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

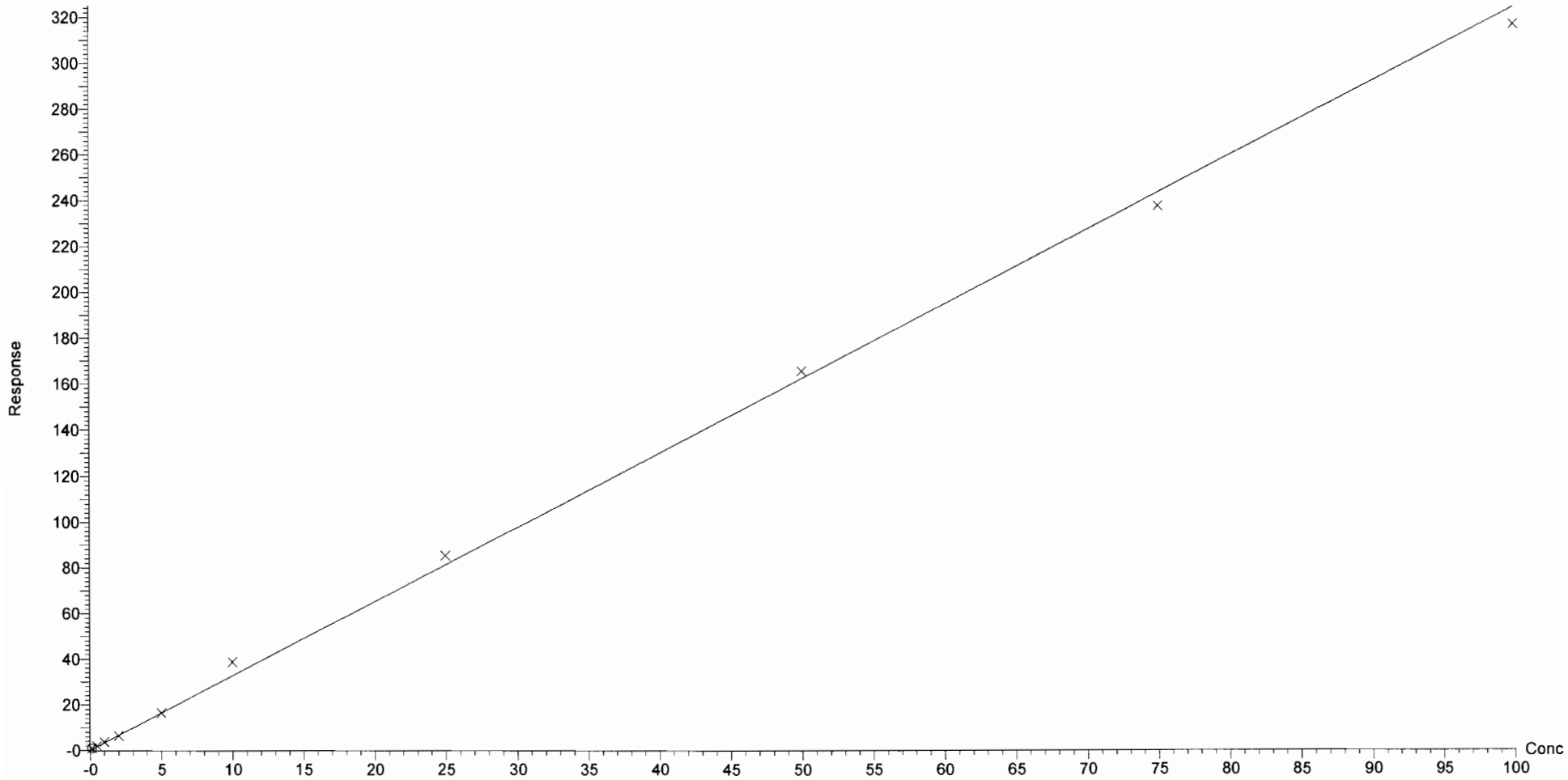


Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:26:15 Pacific Standard Time

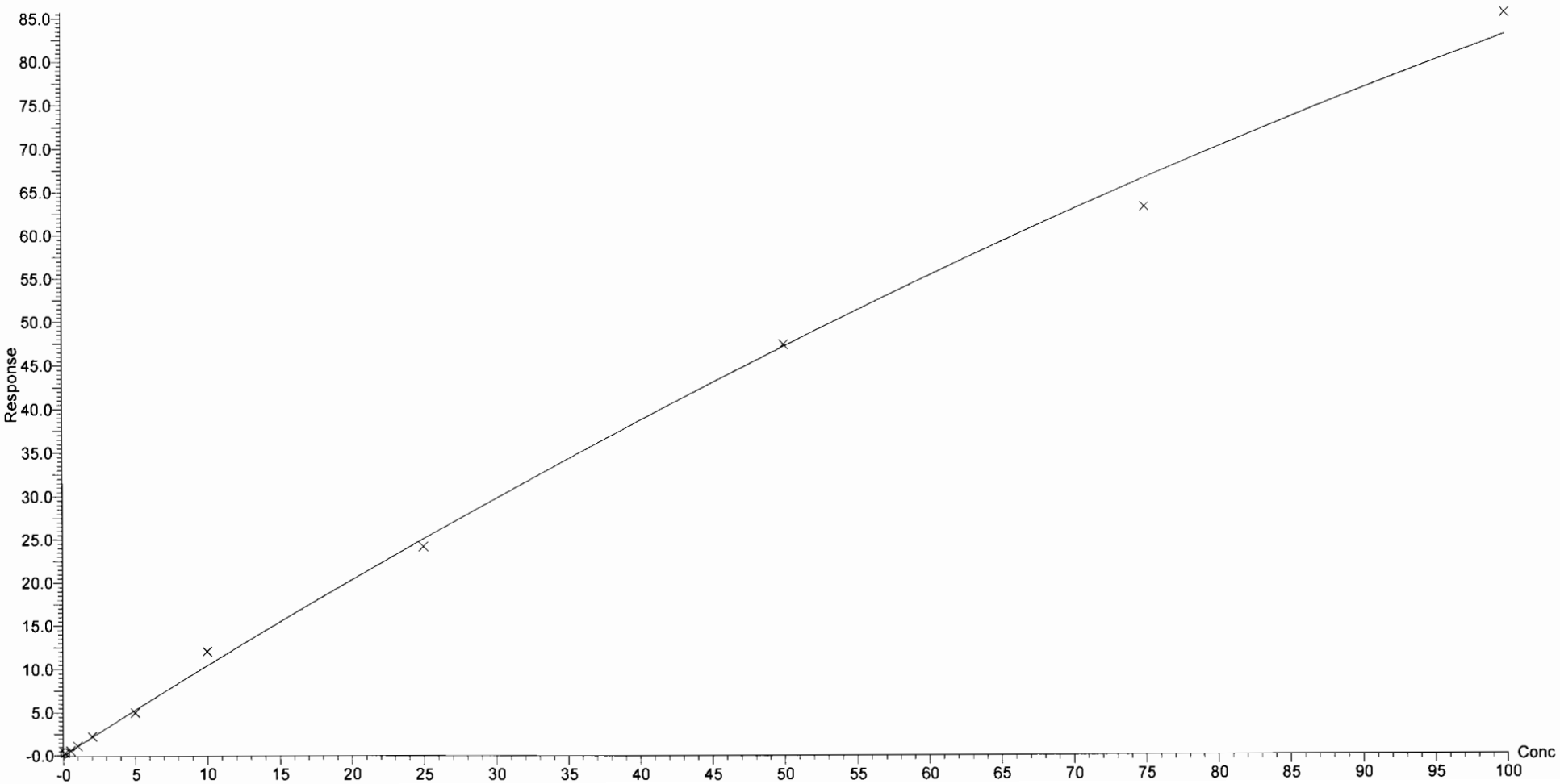
Compound name: PFHxS
Correlation coefficient: r = 0.998956, r^2 = 0.997912
Calibration curve: 3.24824 * x + 0.159985
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:26:15 Pacific Standard Time

Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.997393
Calibration curve: -0.0022536 * x^2 + 1.05713 * x + 0.0303277
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
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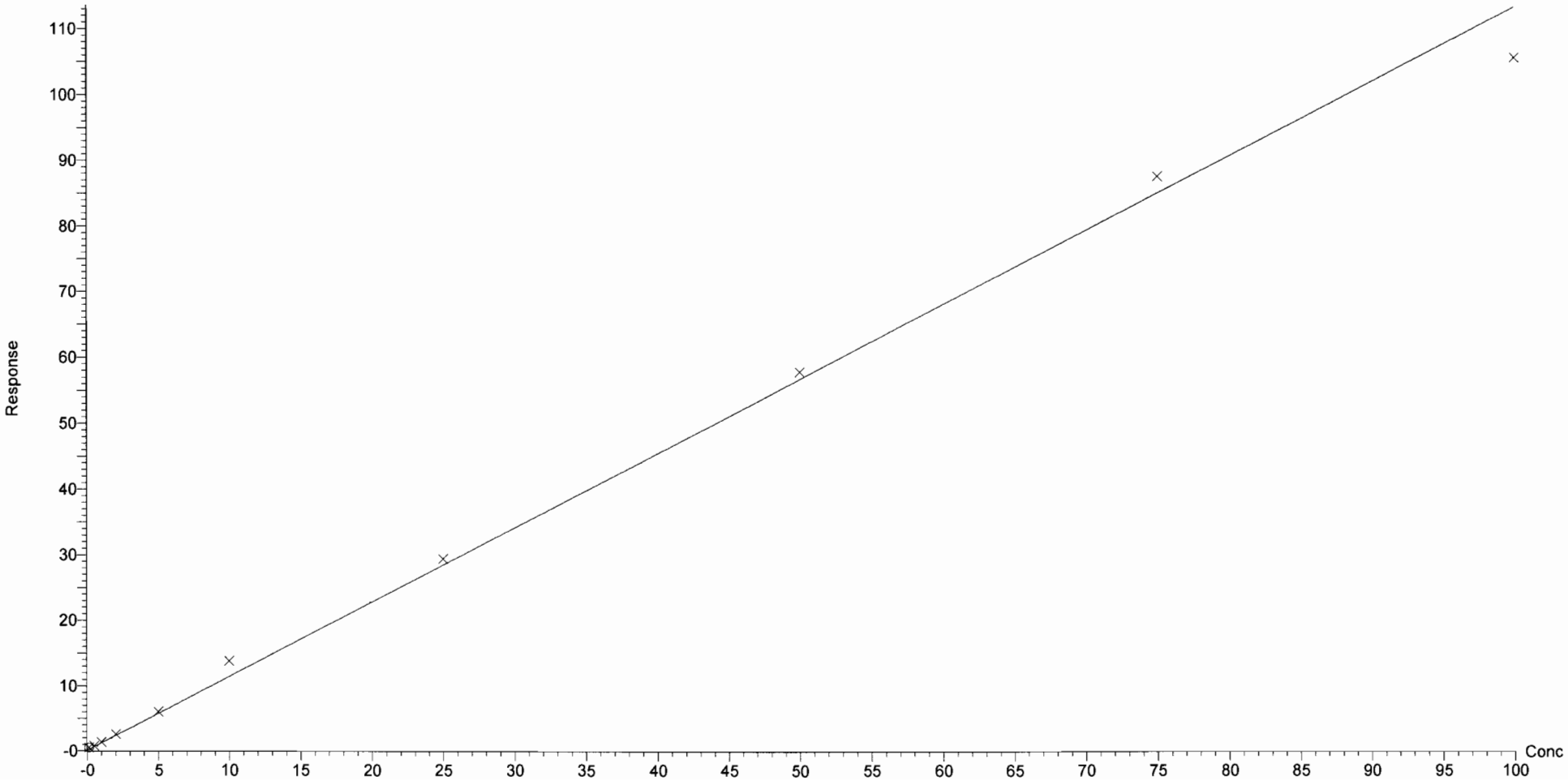
Compound name: PFOA
Correlation coefficient: r = 0.997868, r^2 = 0.995741
Calibration curve: 1.13489 * x + 0.0922771
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
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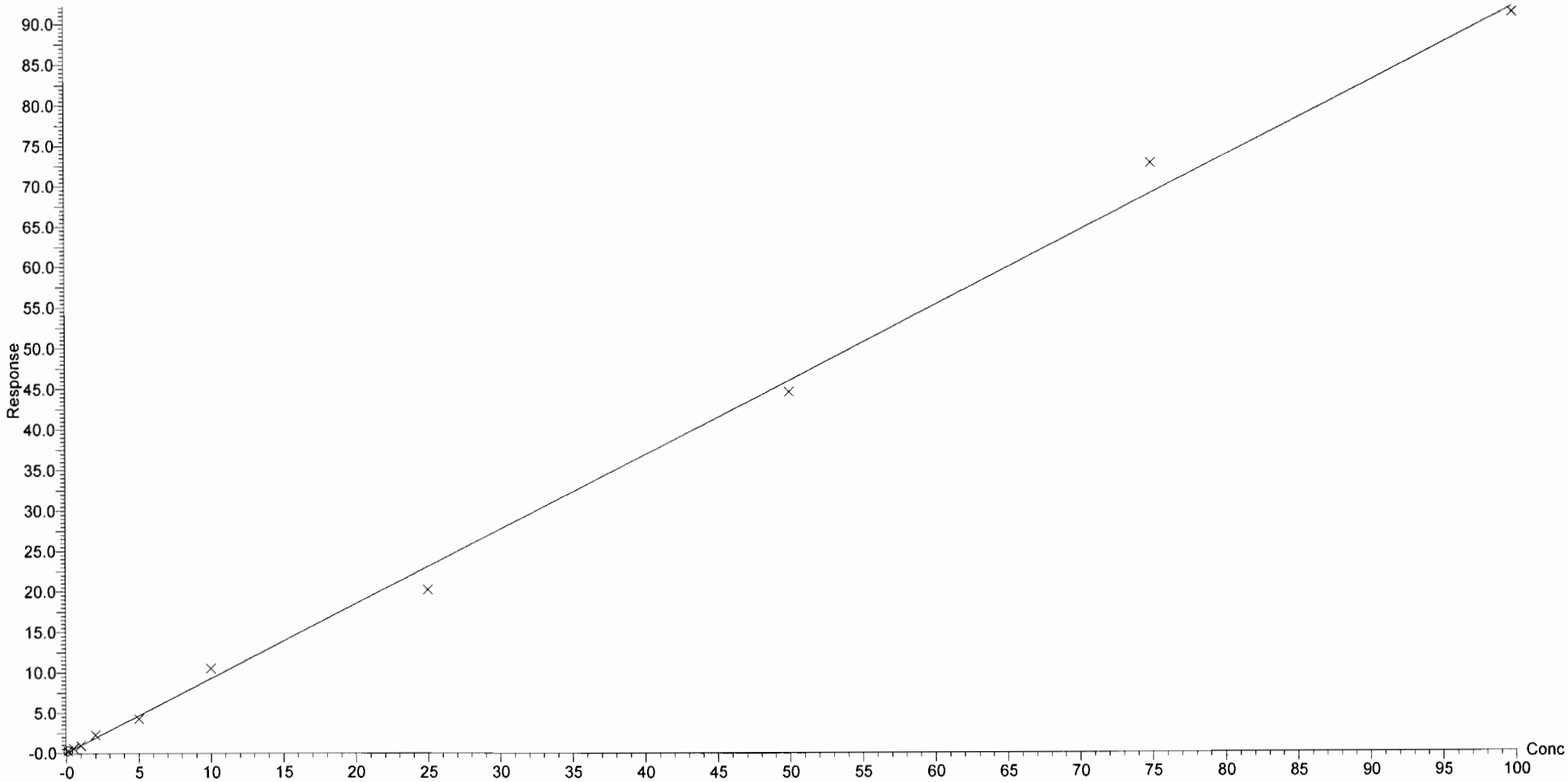
Compound name: PFNA
Correlation coefficient: r = 0.998141, r^2 = 0.996285
Calibration curve: 0.921487 * x + 0.0274481
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
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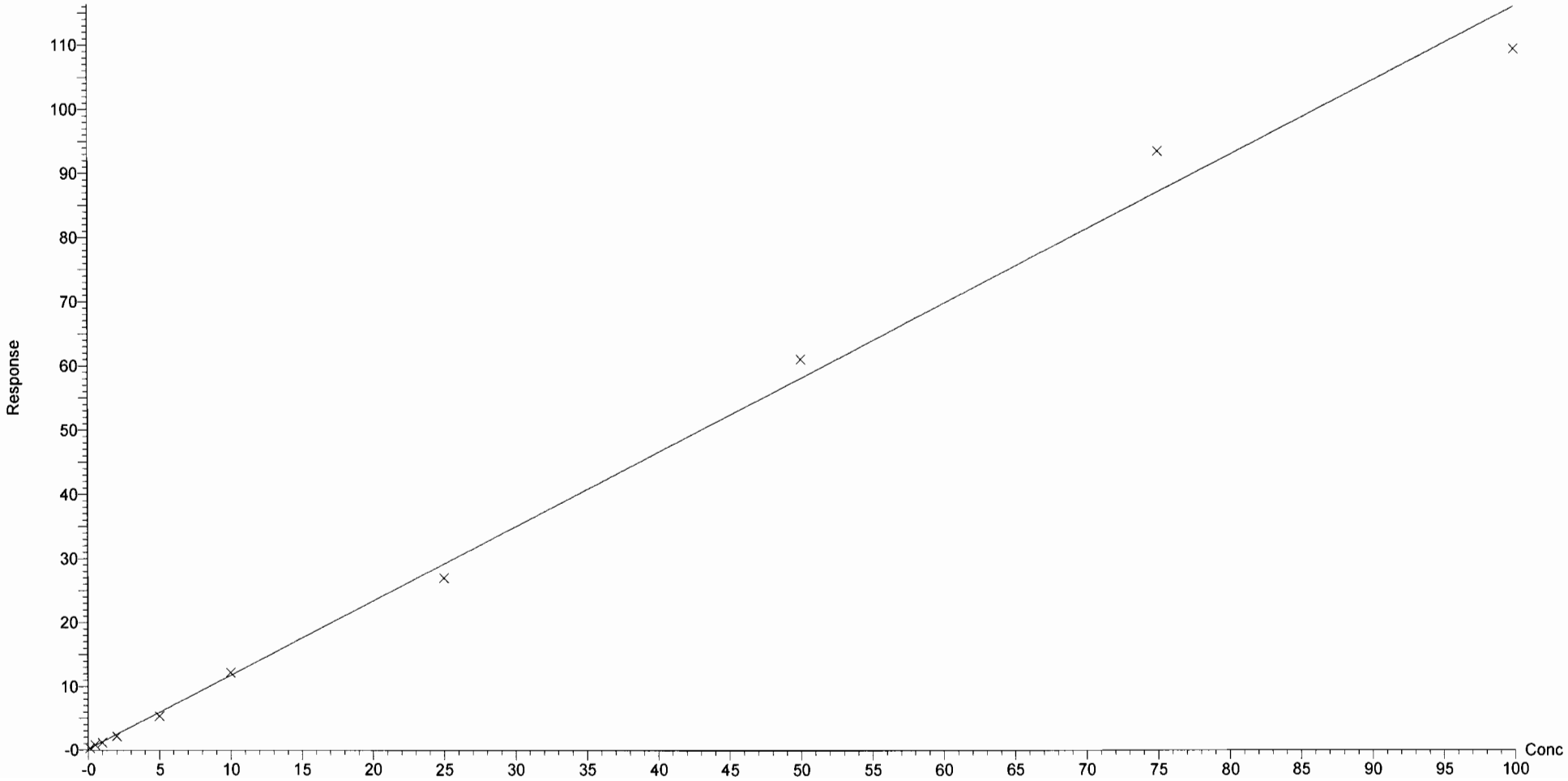
Compound name: PFOS
Correlation coefficient: r = 0.997845, r^2 = 0.995694
Calibration curve: 1.16253 * x + 0.110699
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
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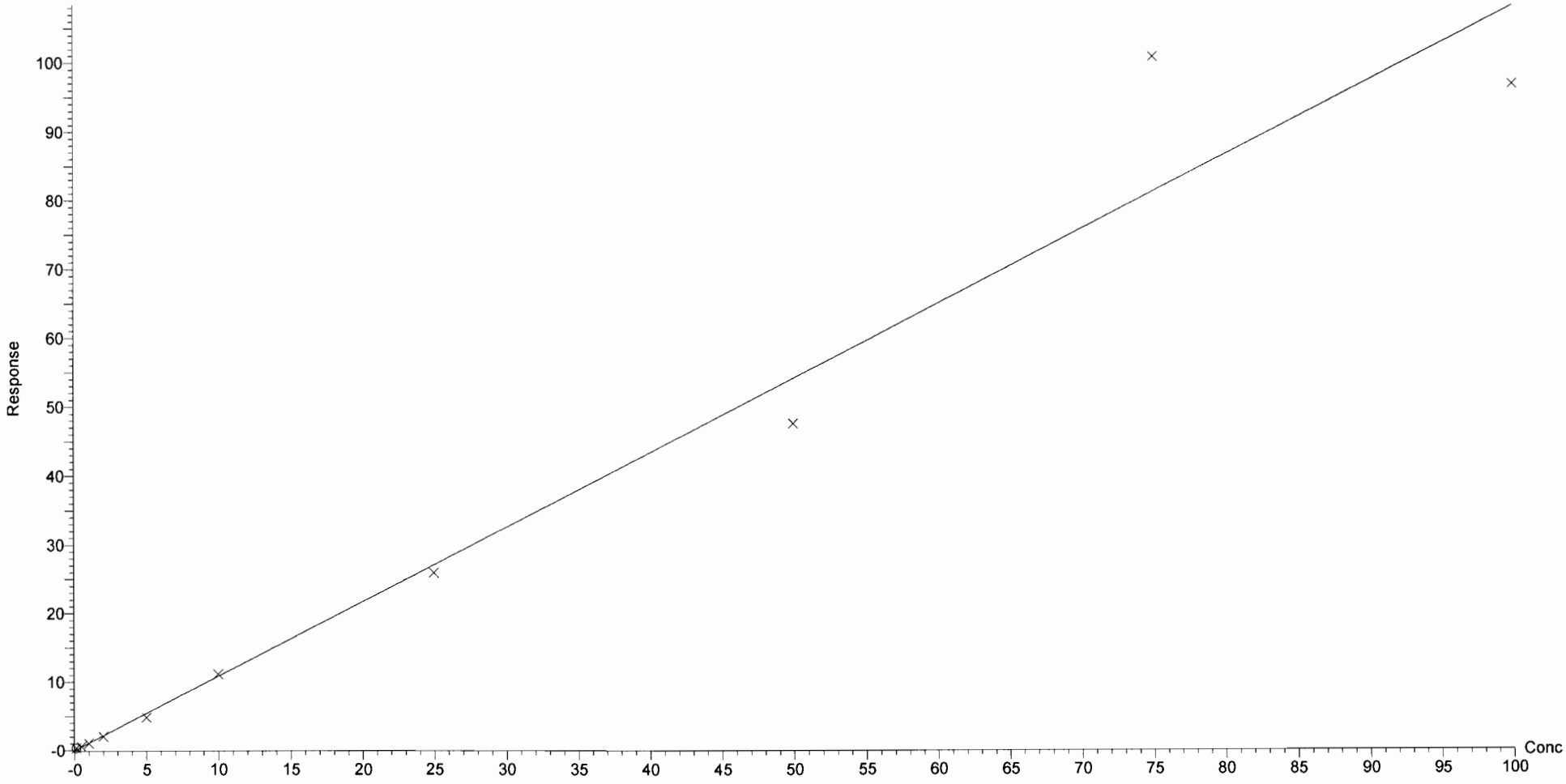
Compound name: PFDA
Correlation coefficient: r = 0.988136, r^2 = 0.976414
Calibration curve: 1.08471 * x + -0.0180413
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

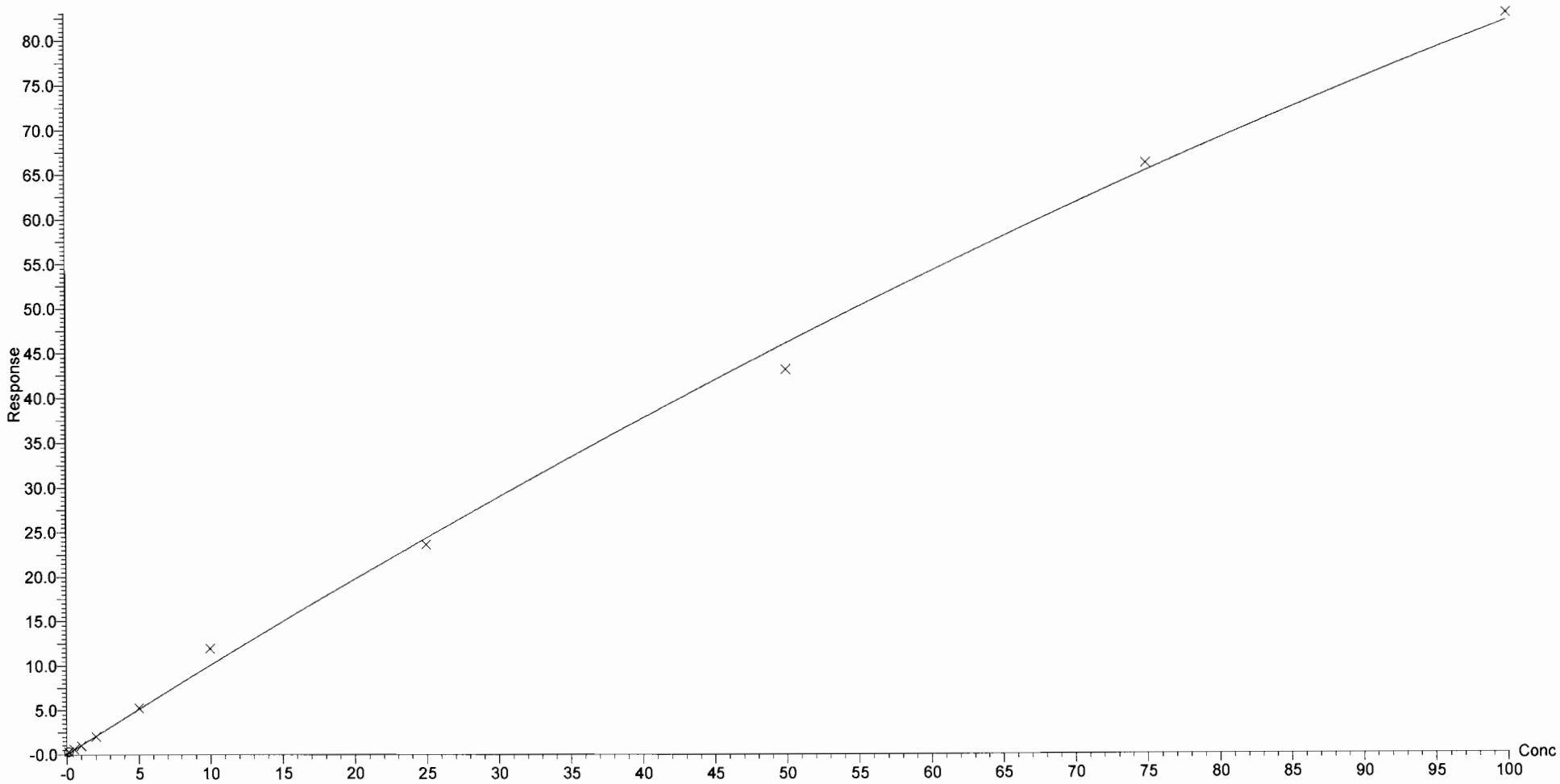


Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:26:15 Pacific Standard Time

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.997106
Calibration curve: -0.00199324 * x^2 + 1.02188 * x + 0.0278518
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: 11:28:58
Printing Date: Thursday, November 10, 2016

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2	161109J3_02	11/9/2016 15:07:18	ST161109J3-1 PFC CS(-2)16K0901	PFC CS(-2)16K0901 A
3	161109J3_03	11/9/2016 15:19:31	ST161109J3-2 PFC CS(-1)16K0902	PFC CS(-1)16K0902 A
4	161109J3_04	11/9/2016 15:31:45	ST161109J3-3 PFC CS0 16K0903	PFC CS0 160903 A
5	161109J3_05	11/9/2016 15:43:56	ST161109J3-4 PFC CS1 16K0904	PFC CS1 16K0904 A
6	161109J3_06	11/9/2016 15:56:10	ST161109J3-5PFC CS2 16K0806	PFC CS2 16K0806 A
7	161109J3_07	11/9/2016 16:08:26	ST161109J3-6 PFC CS3 16K0807	PFC CS3 16K0807 A
8	161109J3_08	11/9/2016 16:20:38	ST161109J3-7 PFC C3.5 16K0808	PFC C3.5 16K0808 A
9	161109J3_09	11/9/2016 16:32:53	ST161109J3-8 PFC CS4 16K0925	PFC CS4 16K0925 A
10	161109J3_10	11/9/2016 16:45:09	ST161109J3-9 PFC CS4.5 16K0926	PFC CS4.5 16K0926 A
11	161109J3_11	11/9/2016 16:57:21	ST161109J3-10 PFC CS5 16K0927	PFC CS5 16K0927 A
12	161109J3_12	11/9/2016 17:09:35	IPA	IPA
13	161109J3_13	11/9/2016 17:21:50	SS161109J3-1 PFC SSS 16J1810	PFC SSS 16J1810 A
14	161109J3_14	11/9/2016 17:34:01	IPA	IPA
15	161109J3_15	11/9/2016 17:46:18	B6K0029-BS1	OPR
16	161109J3_16	11/9/2016 17:58:33	B6K0034-BS1	OPR
17	161109J3_17	11/9/2016 18:10:47	B6K0034-BSD1	LCS Dup
18	161109J3_18	11/9/2016 18:23:01	IPA	IPA
19	161109J3_19	11/9/2016 18:35:16	B6K0029-BLK1	Method Blank
20	161109J3_20	11/9/2016 18:47:31	B6K0034-BLK1	Method Blank
21	161109J3_21	11/9/2016 18:59:45	1601348-01	EB-M06-02_161024
22	161109J3_22	11/9/2016 19:12:00	1601348-02	EB-M06-04_161024
23	161109J3_23	11/9/2016 19:24:14	1601348-03	EB-S6-MW06_161024
24	161109J3_24	11/9/2016 19:36:29	1601372-12	AT028-TW-12-102516
25	161109J3_25	11/9/2016 19:48:41	1601372-13	AT028-TW-13-102516
26	161109J3_26	11/9/2016 20:00:56	1601372-14	AT028-TW-11-102516
27	161109J3_27	11/9/2016 20:13:12	1601372-16	AT028-FD-01-102516
28	161109J3_28	11/9/2016 20:25:27	1601372-17	AT028-TW-14-102616
29	161109J3_29	11/9/2016 20:37:43	1601356-02RE1	AFFF-FFTA-MW-46-102116
30	161109J3_30	11/9/2016 20:49:56	1601356-20RE1	AFFF-FFTA-MW-109B-102116
31	161109J3_31	11/9/2016 21:02:11	B6K0020-MS1	Matrix Spike
32	161109J3_32	11/9/2016 21:14:26	B6K0020-MSD1	Matrix Spike Dup
33	161109J3_33	11/9/2016 21:26:38	IPA	IPA
34	161109J3_34	11/9/2016 21:38:54	ST161109J2-11 PFC C3.5 16K0713	PFC C3.5 16K0713 A
35	161109J3_35	11/9/2016 21:51:10	IPA	IPA
36	161109J3_36	11/9/2016 22:03:24	1601360-01	EB12_161025
37	161109J3_37	11/9/2016 22:15:39	1601360-09	M05-02_161025
38	161109J3_38	11/9/2016 22:27:52	1601360-10	M05-03_161025
39	161109J3_39	11/9/2016 22:40:06	1601360-11	M10-01_161025
40	161109J3_40	11/9/2016 22:52:17	1601365-01	RW-NRES004-10252016
41	161109J3_41	11/9/2016 23:04:33	1601365-03	RW-NRES031-10252016
42	161109J3_42	11/9/2016 23:16:48	1601365-05	RW-FD-10252016
43	161109J3_43	11/9/2016 23:29:04	1601365-06	SW-NRES031-10252016
44	161109J3_44	11/9/2016 23:41:18	1601365-08	SW-NRES032-10252016

Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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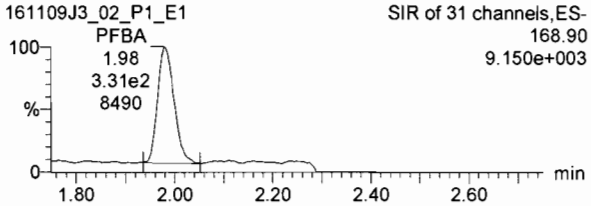
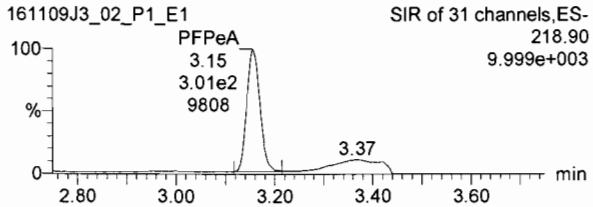
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Name: 161109J3_02.wiff, Date: 09-Nov-2016, Time: 15:07:18, ID: ST161109J3-1 PFC CS(-2)16K0901, Description: PFC CS(-2)16K0901 A

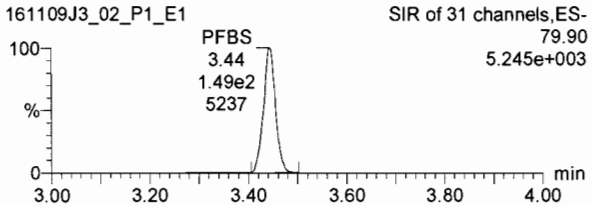
PFBA



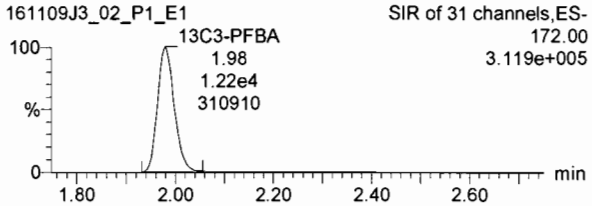
PFPeA



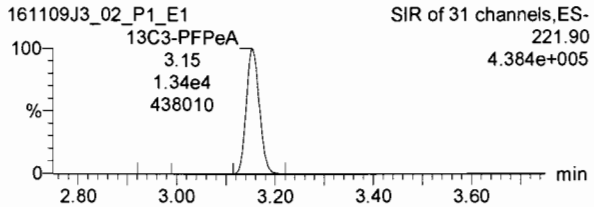
PFBS



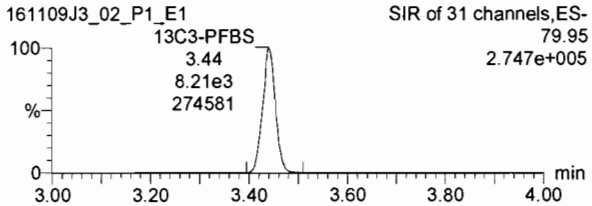
13C3-PFBA



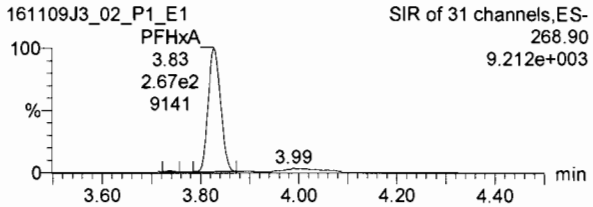
13C3-PFPeA



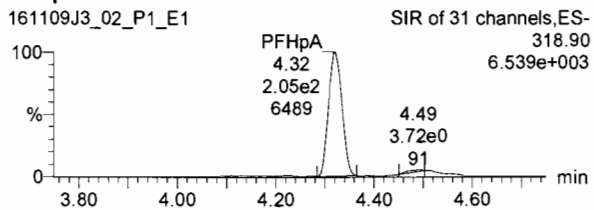
13C3-PFBS



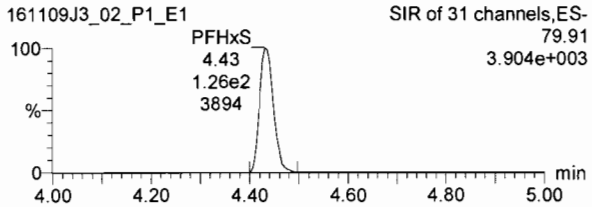
PFHxA



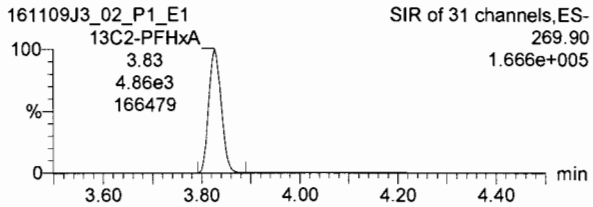
PFHpA



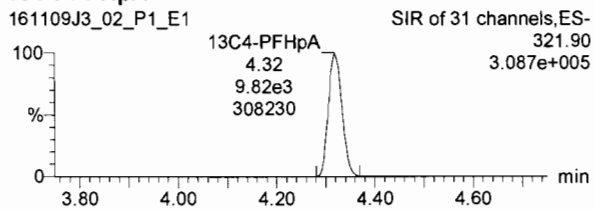
PFHxS



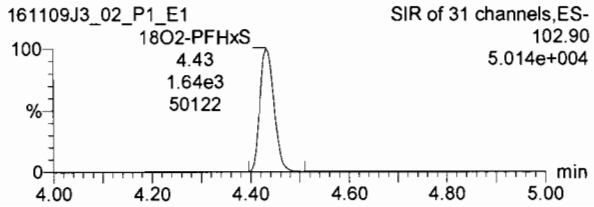
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

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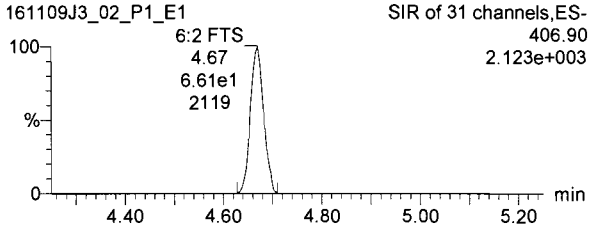
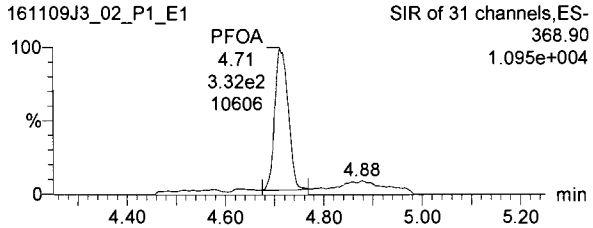
Name: 161109J3_02.wiff, Date: 09-Nov-2016, Time: 15:07:18, ID: ST161109J3-1 PFC CS(-2)16K0901, Description: PFC CS(-2)16K0901 A

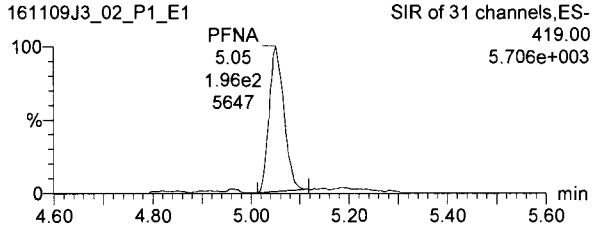
6:2 FTS



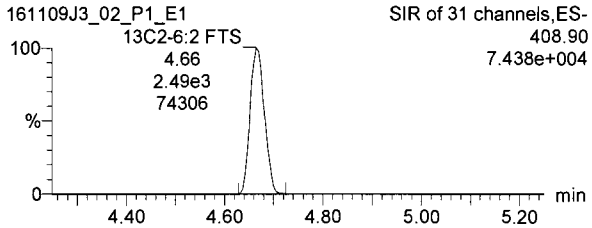
PFOA



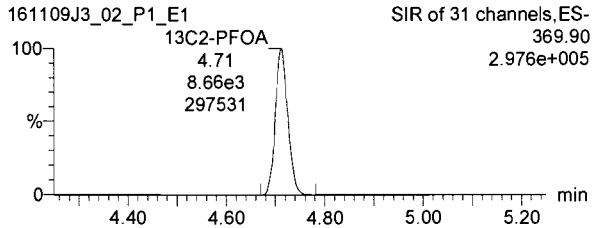
PFNA



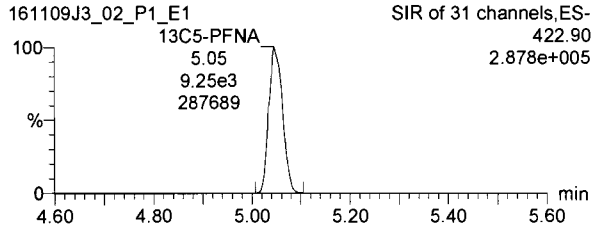
13C2-6:2 FTS



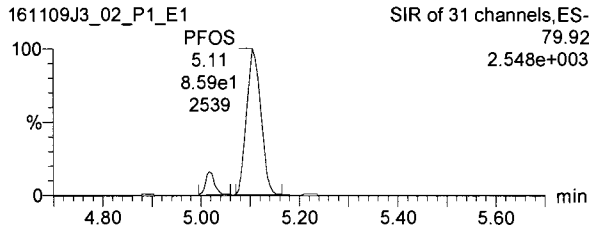
13C2-PFOA



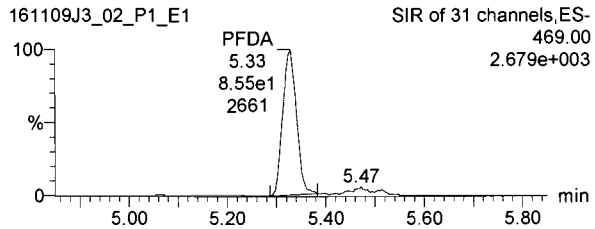
13C5-PFNA



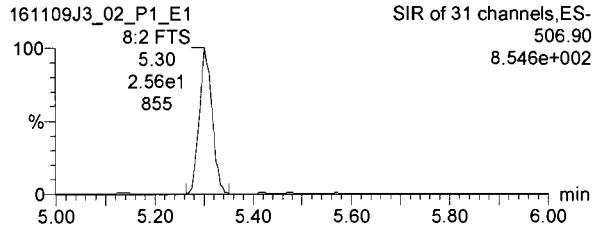
PFOS



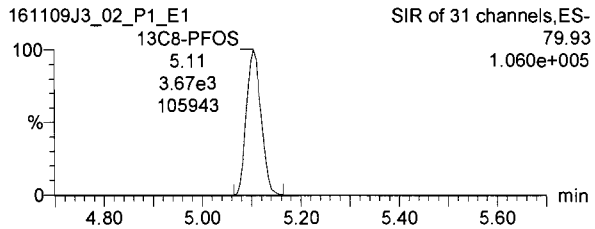
PFDA



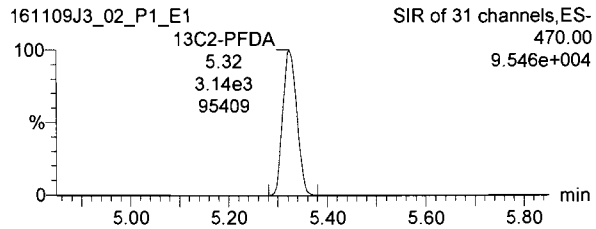
8:2 FTS



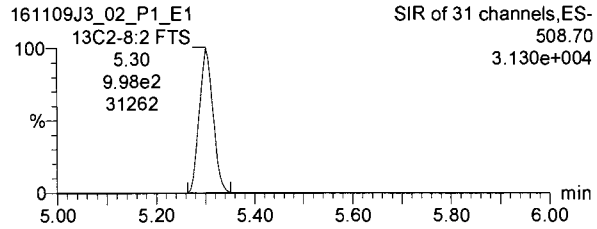
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
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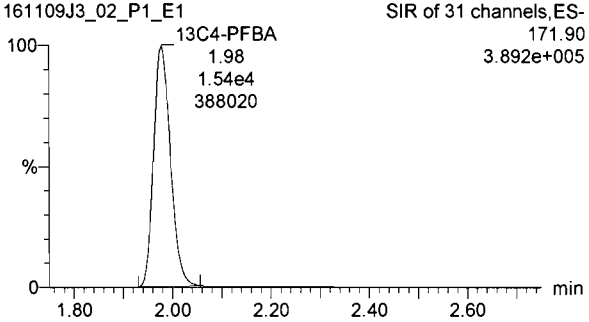
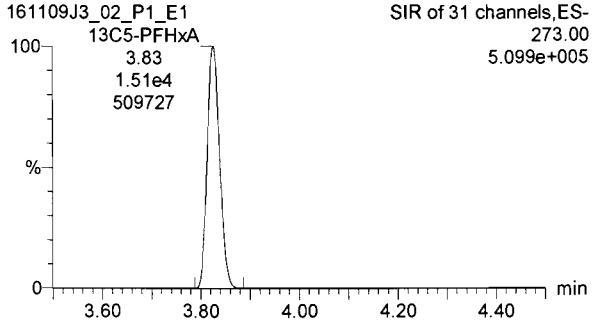
Name: 161109J3_02.wiff, Date: 09-Nov-2016, Time: 15:07:18, ID: ST161109J3-1 PFC CS(-2)16K0901, Description: PFC CS(-2)16K0901 A

13C4-PFBA



13C5-PFHxA



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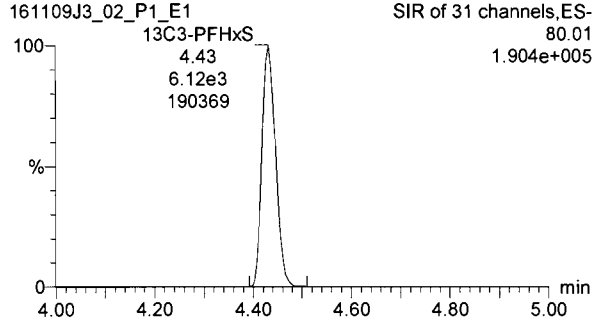
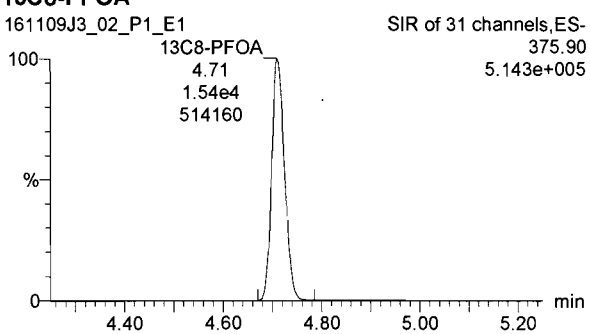
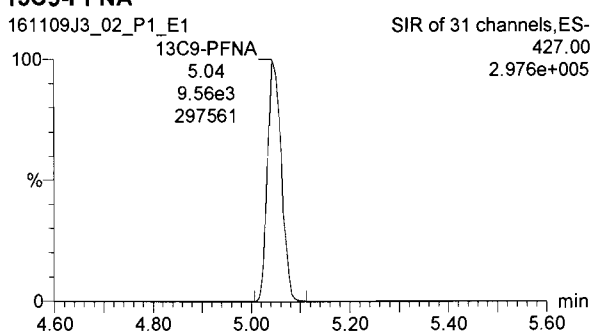


13C8-PFOA



13C9-PFNA



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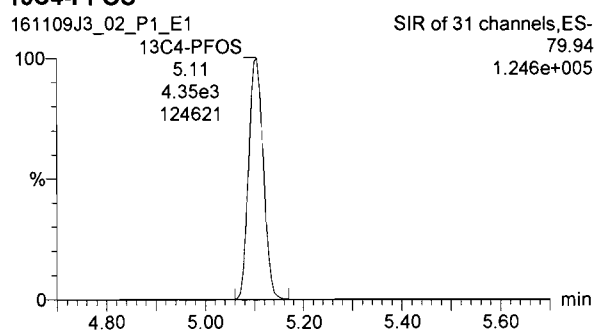

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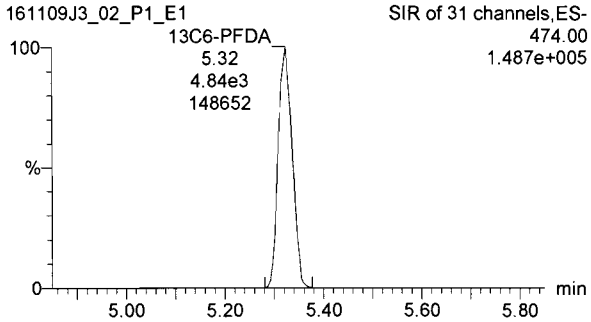

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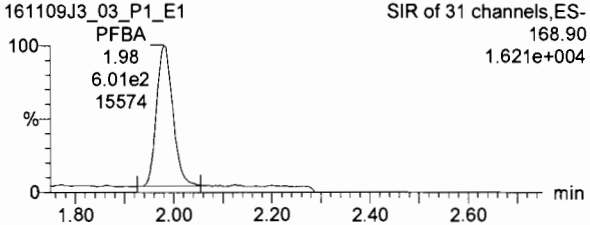

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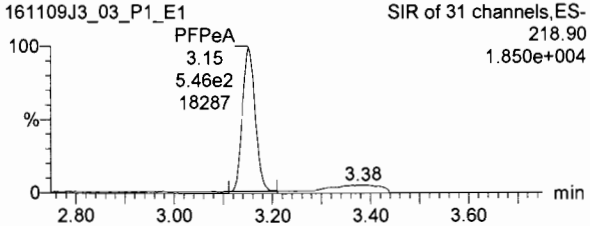

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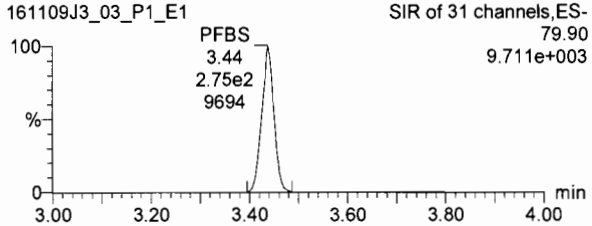

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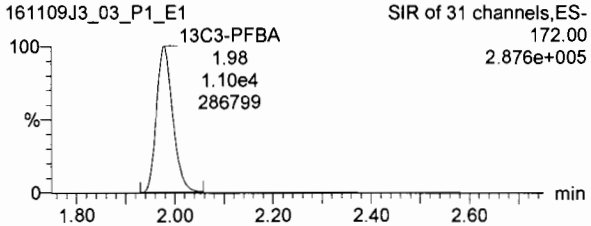

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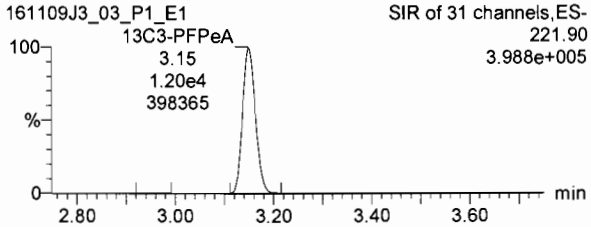

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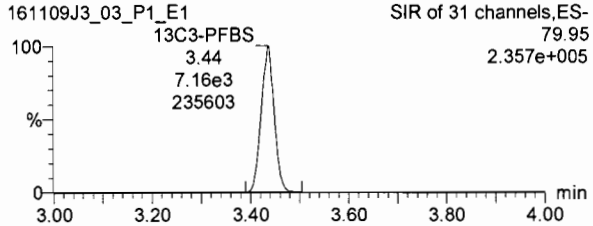

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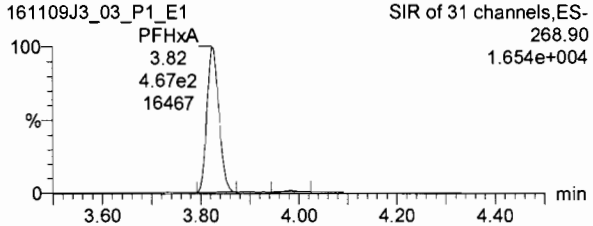

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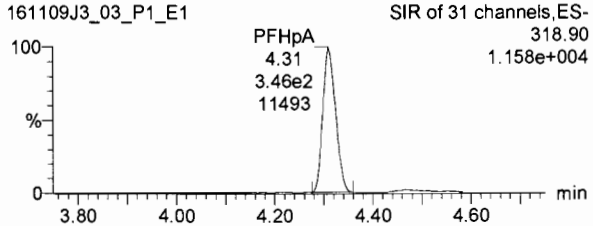

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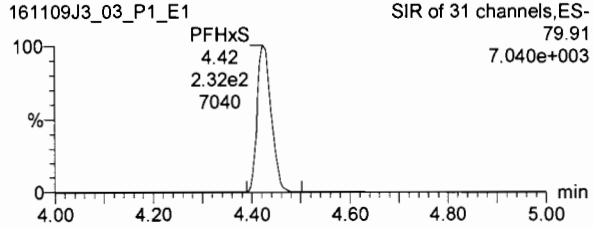

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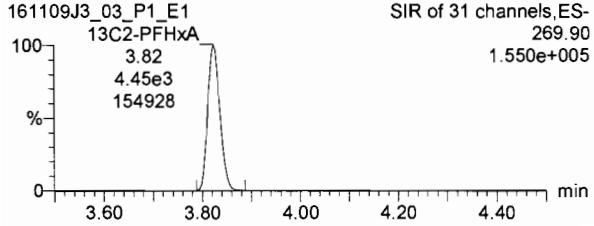

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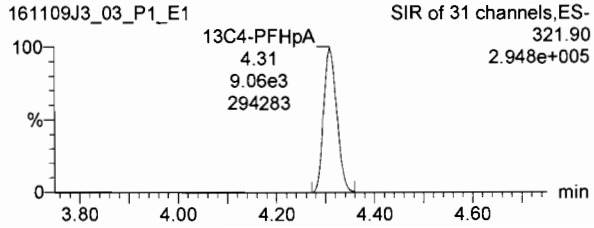

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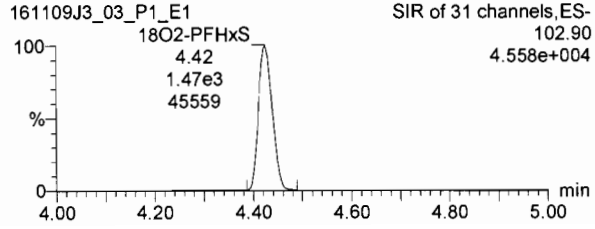

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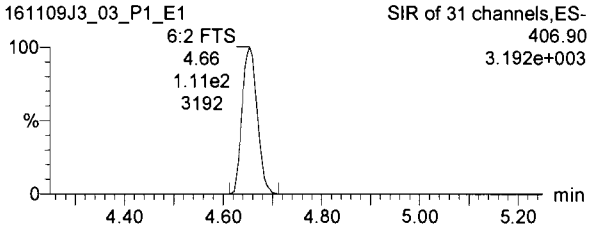

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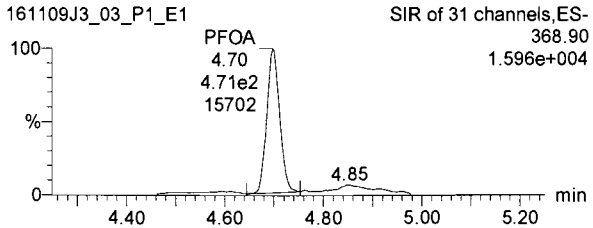

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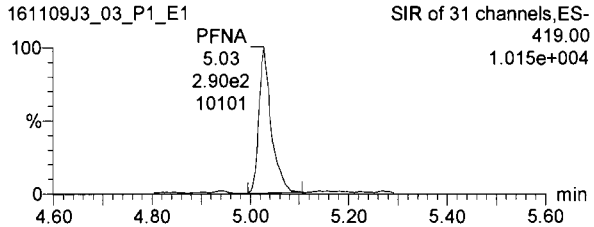

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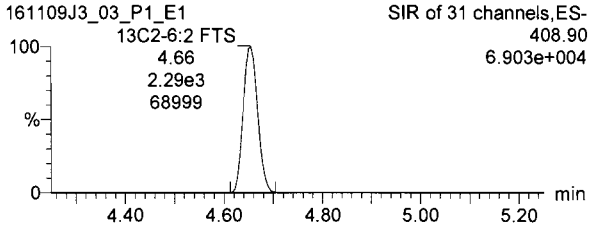

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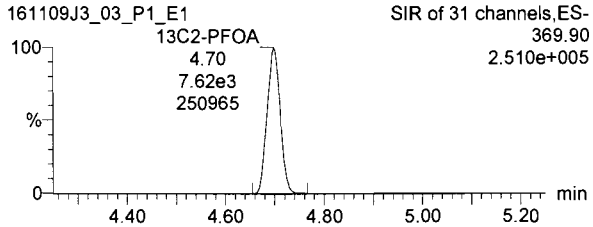

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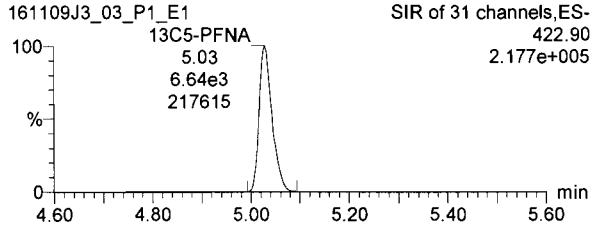

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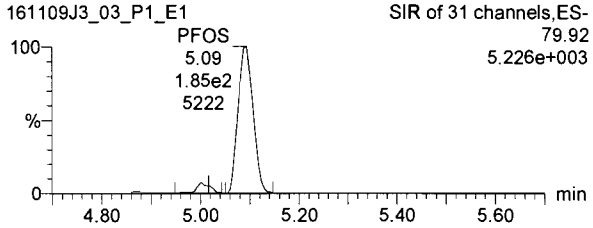

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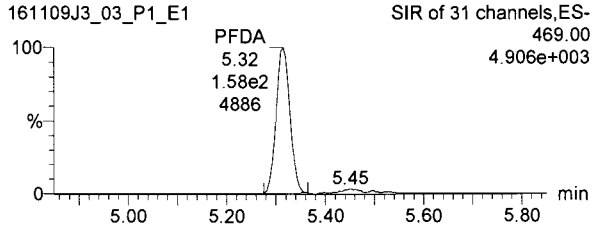
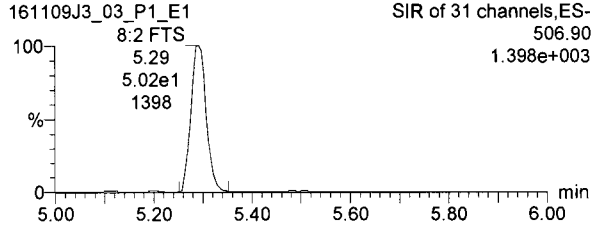


8:2 FTS



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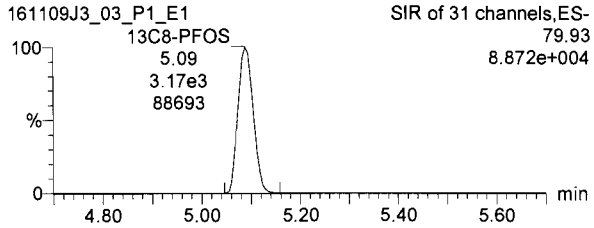

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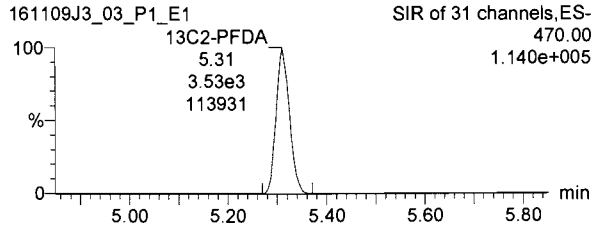

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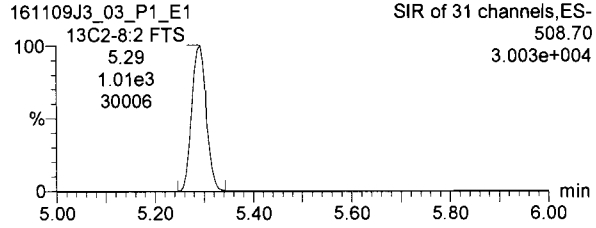

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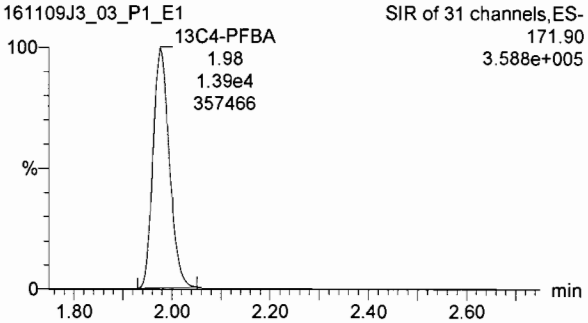

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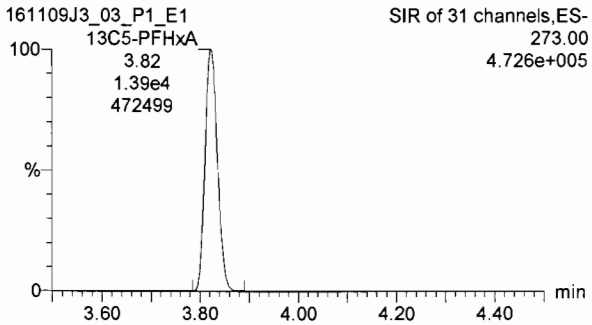

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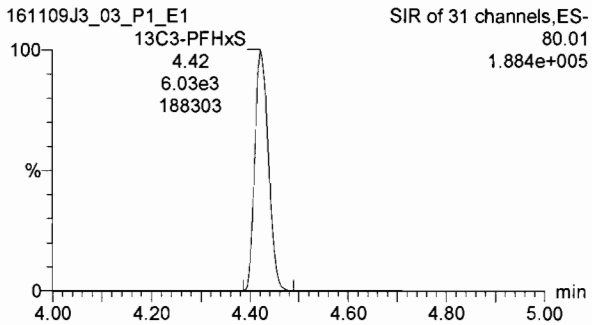

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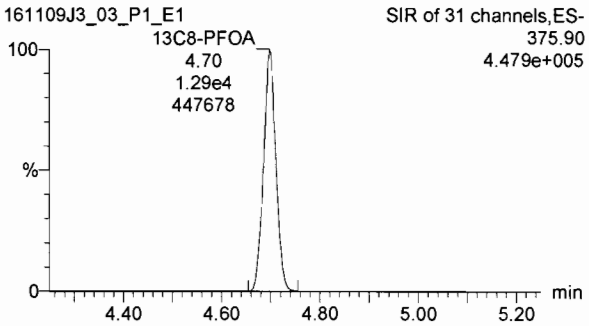

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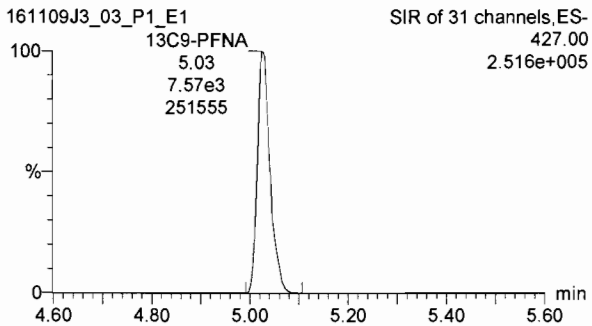

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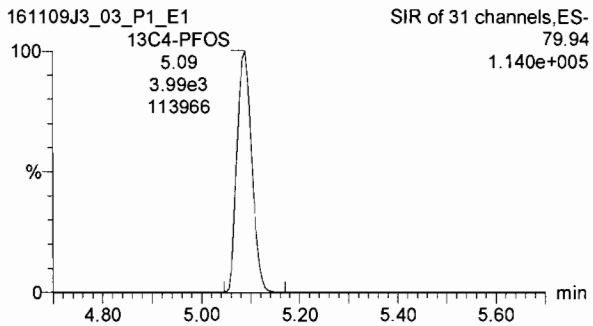

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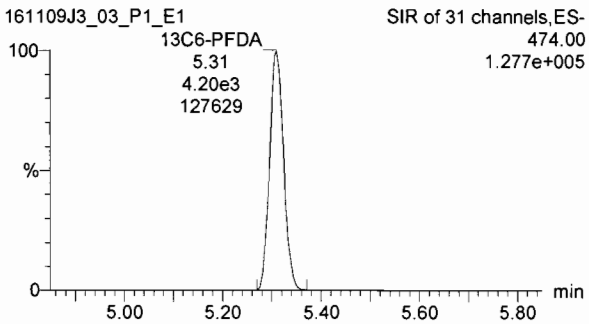

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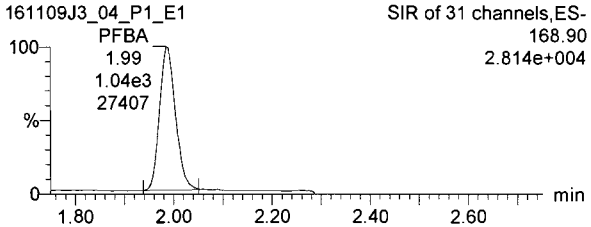

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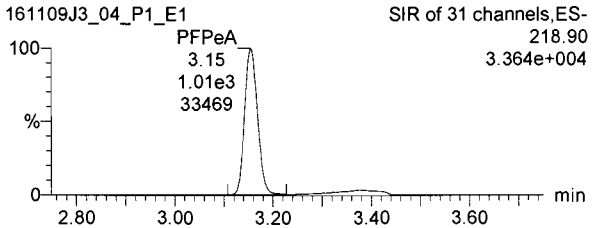

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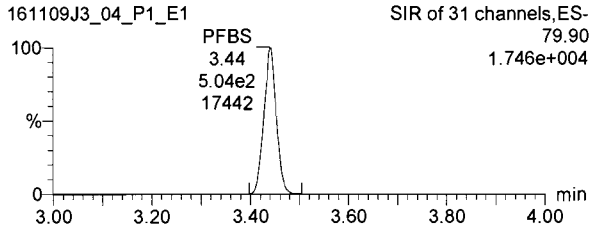

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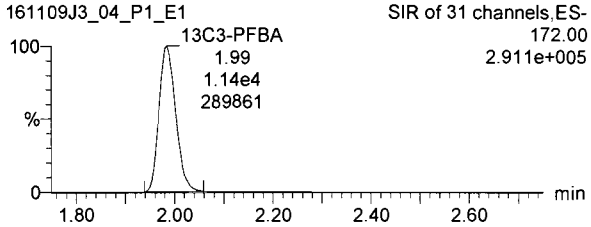

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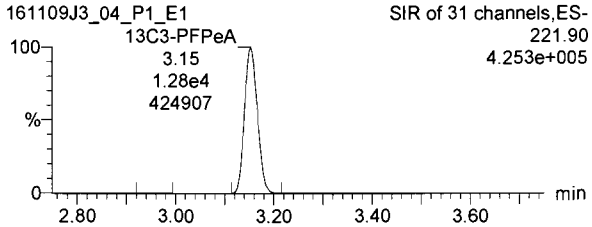

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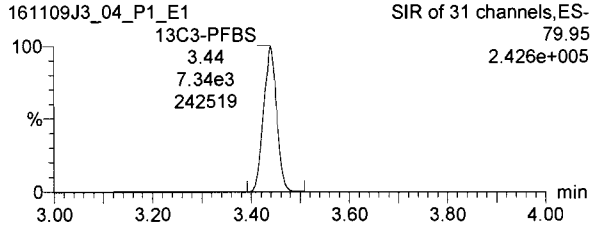

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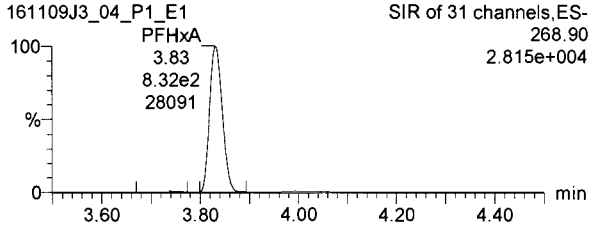

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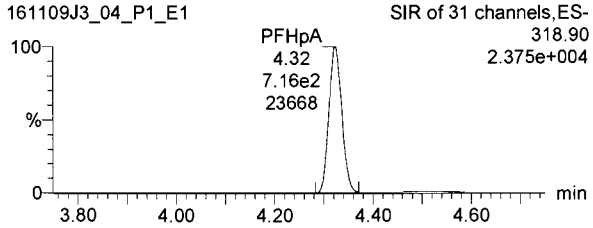

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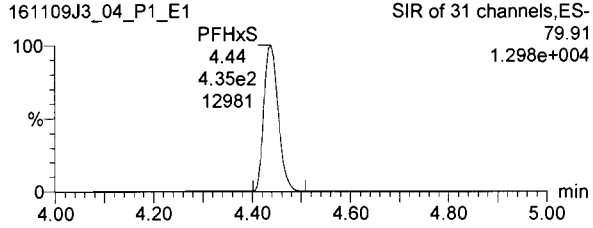

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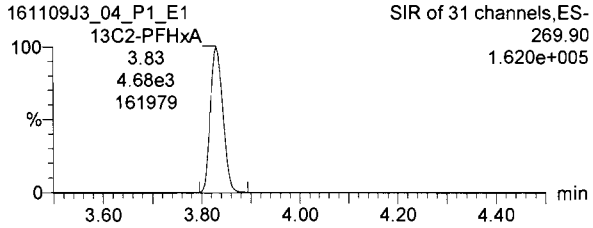

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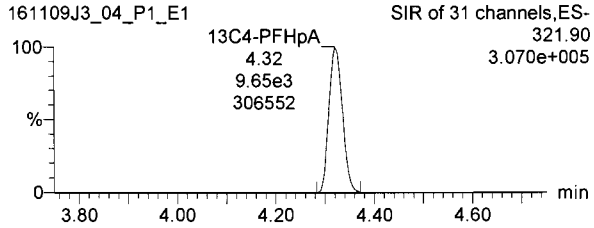

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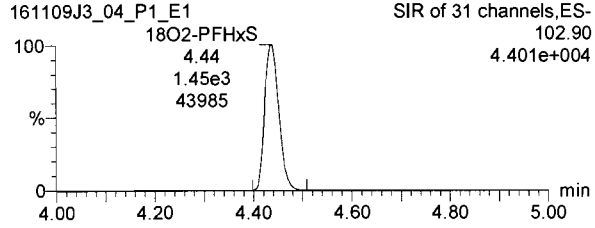

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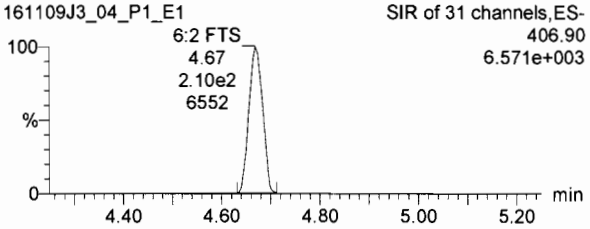
6:2 FTS



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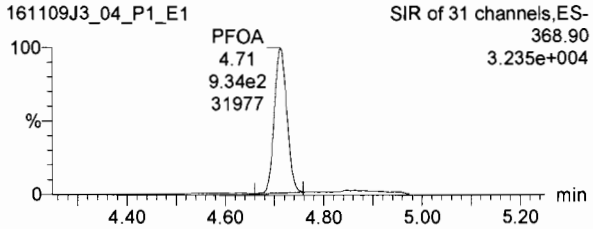

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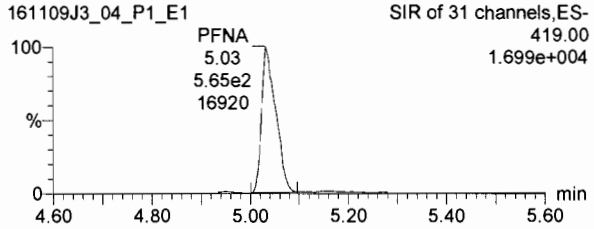

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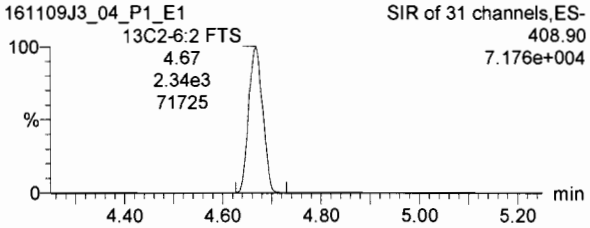

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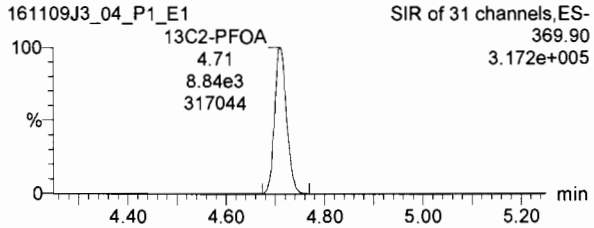

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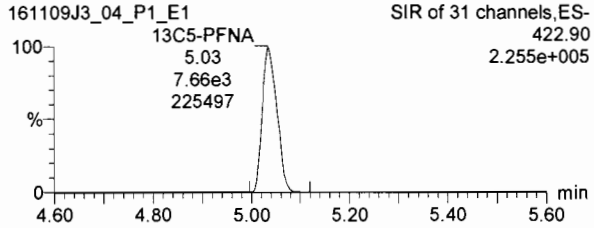
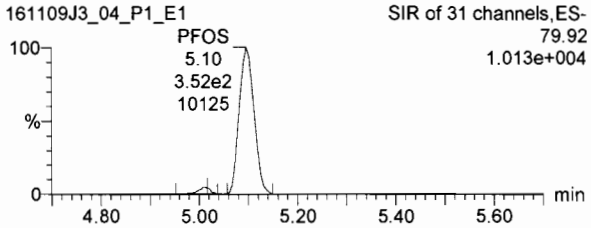
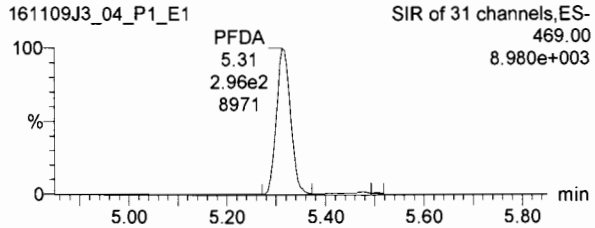


PFOS



PFDA



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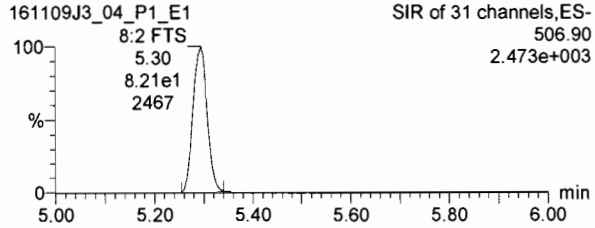
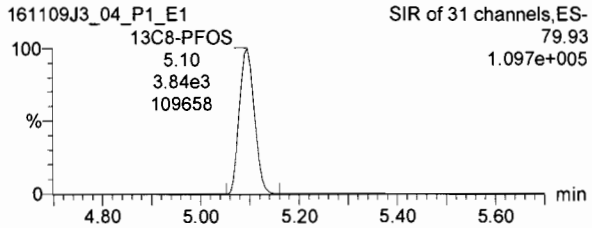


13C8-PFOS



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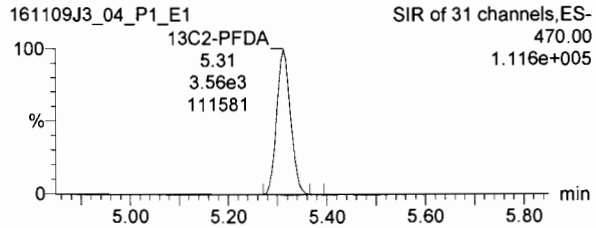
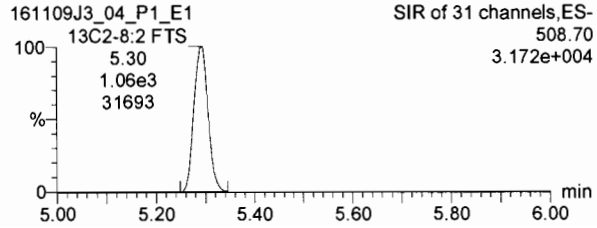


13C2-8:2 FTS



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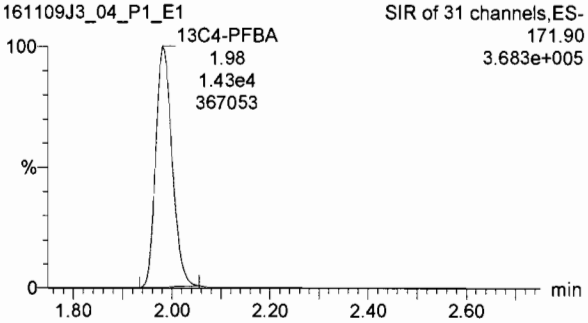
Name: 161109J3_04.wiff, Date: 09-Nov-2016, Time: 15:31:45, ID: ST161109J3-3 PFC CS0 16K0903, Description: PFC CS0 160903 A

13C4-PFBA



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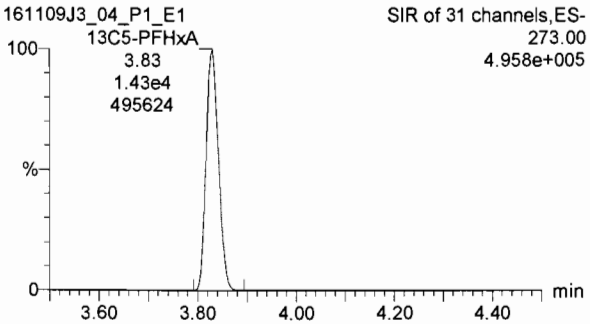

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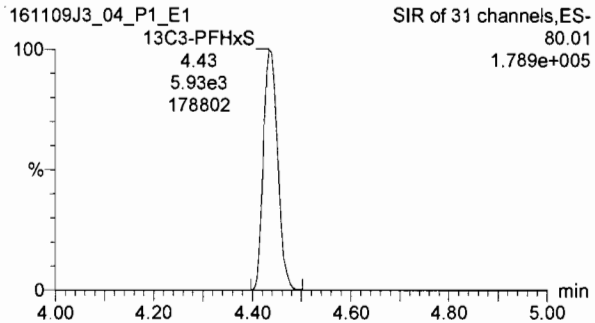
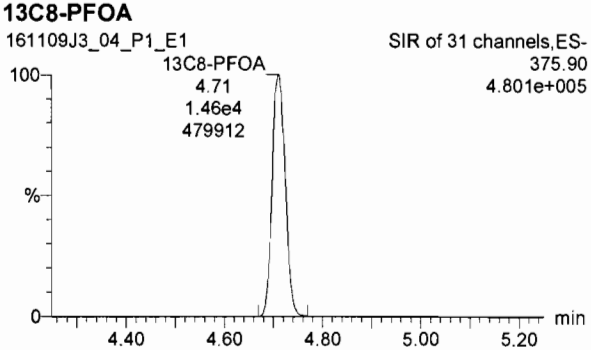


13C8-PFOA



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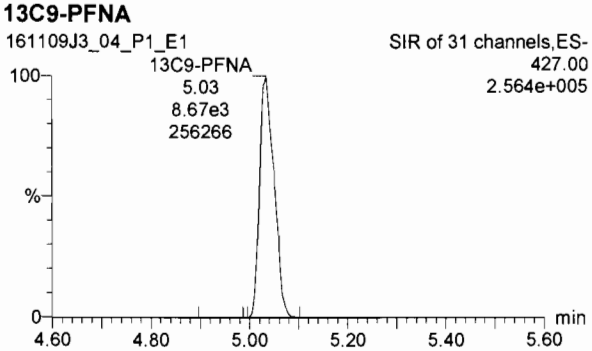

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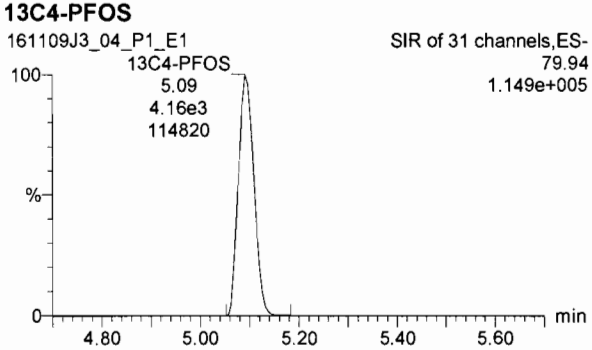
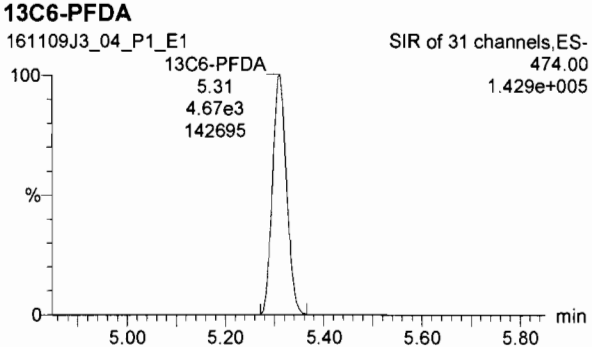


13C6-PFDA



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Name: 161109J3_05.wiff, Date: 09-Nov-2016, Time: 15:43:56, ID: ST161109J3-4 PFC CS1 16K0904, Description: PFC CS1 16K0904 A

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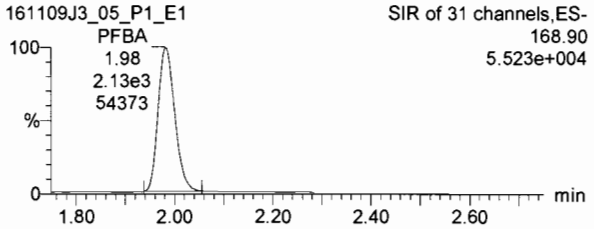

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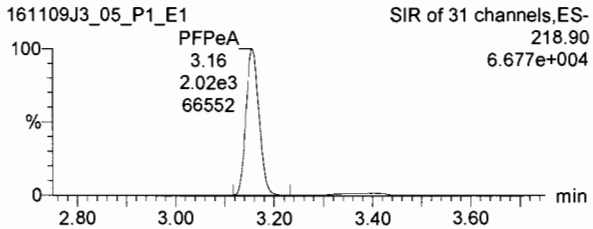

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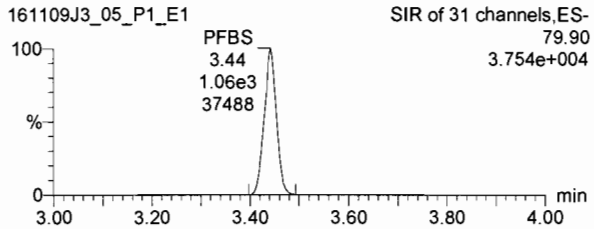

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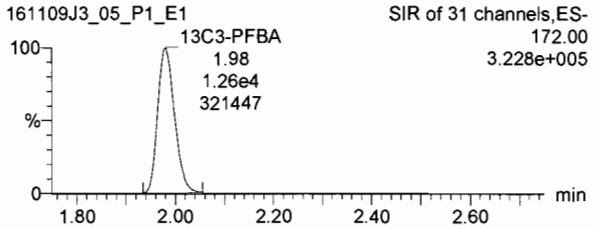

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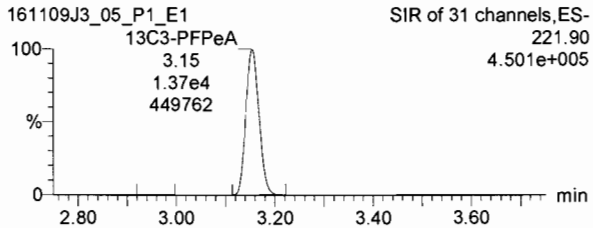

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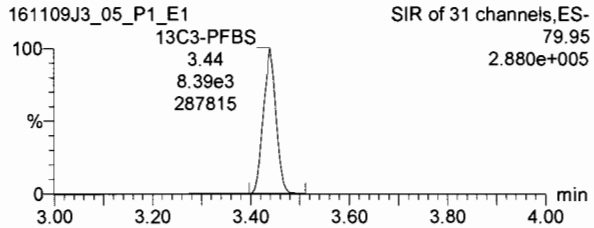

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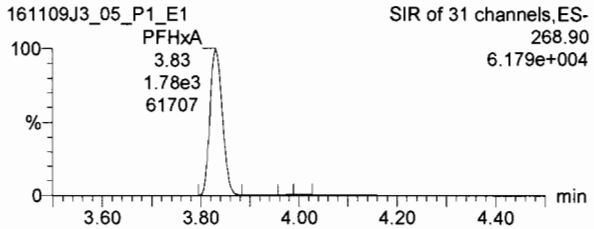

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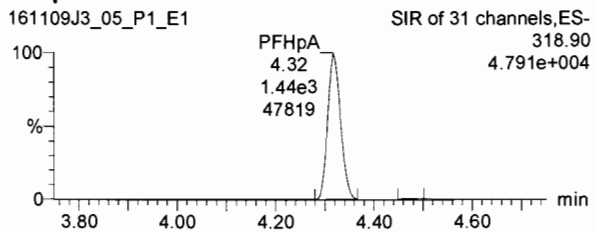

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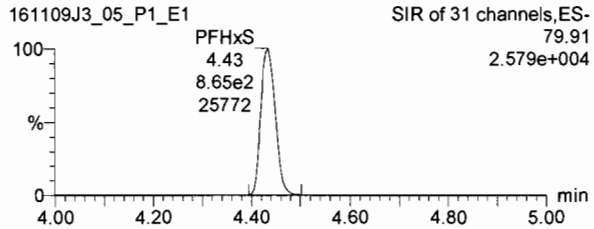

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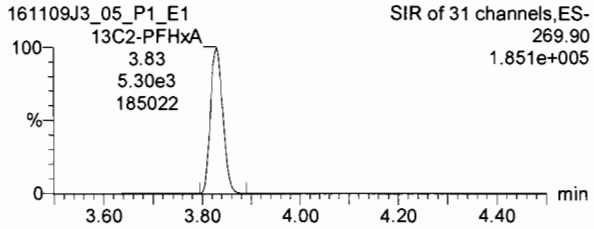

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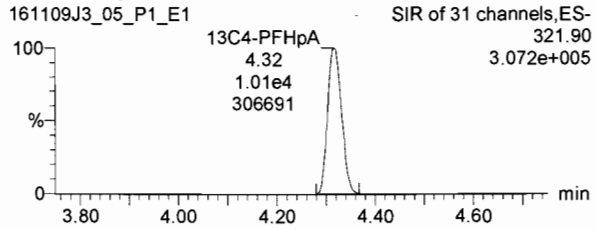
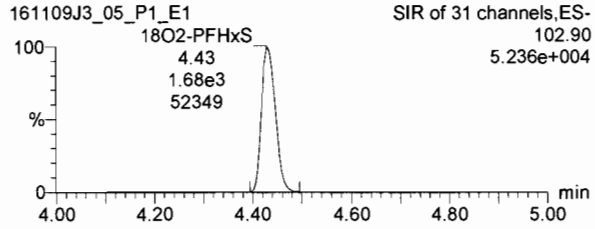


18O2-PFHxS



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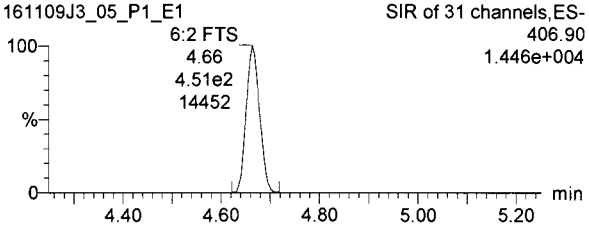
6:2 FTS



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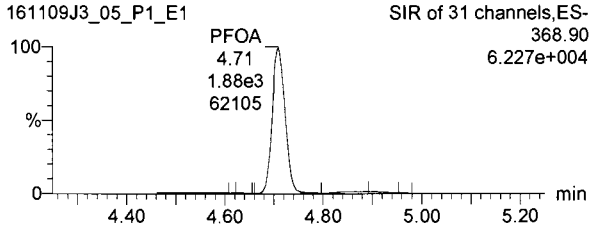

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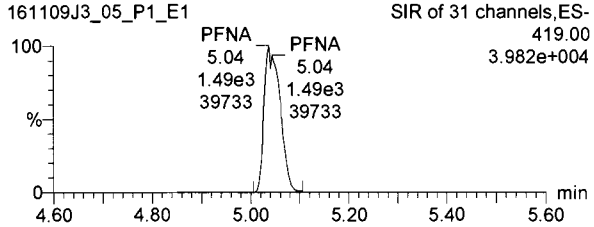
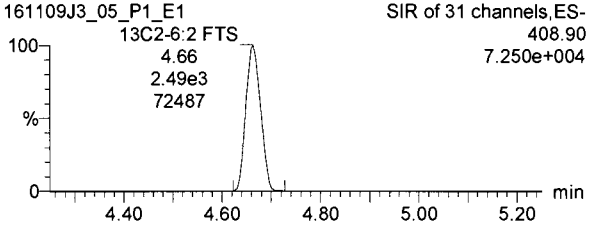


13C2-6:2 FTS



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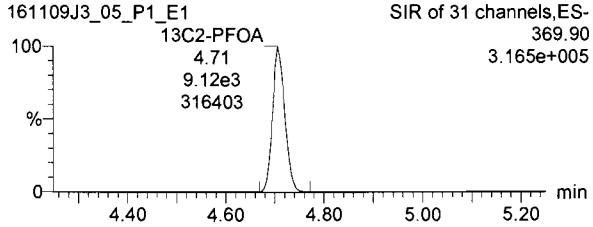

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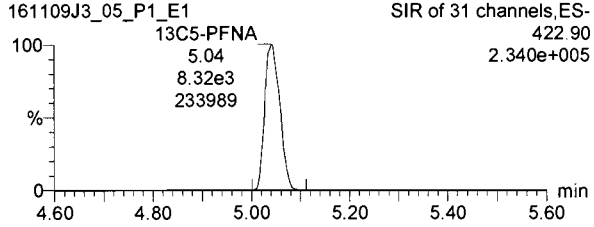

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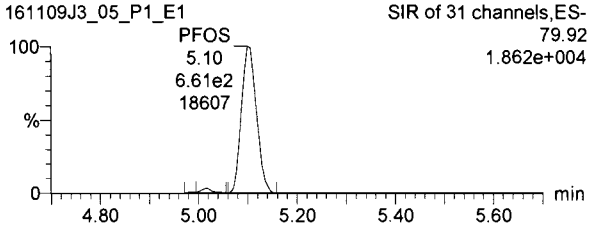

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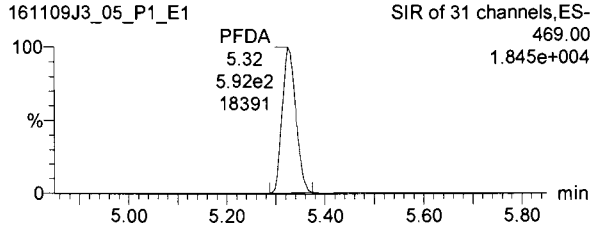
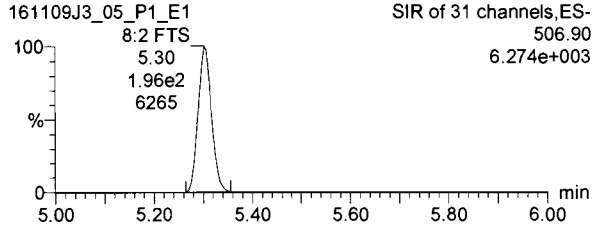


8:2 FTS



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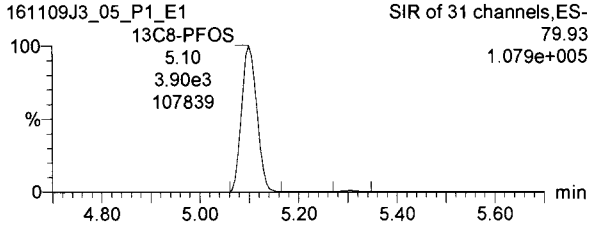
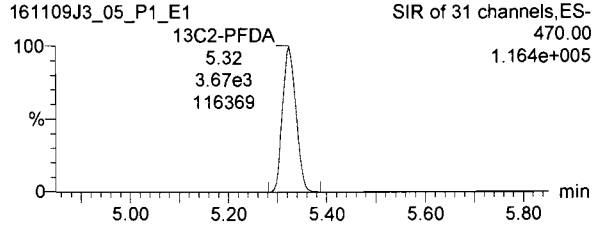
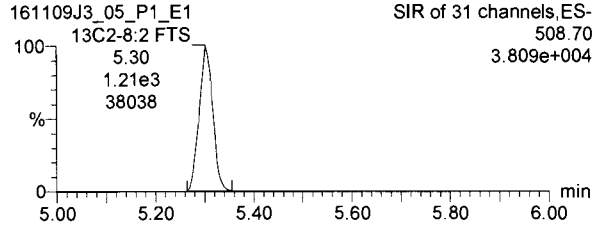


13C2-PFDA



13C2-8:2 FTS



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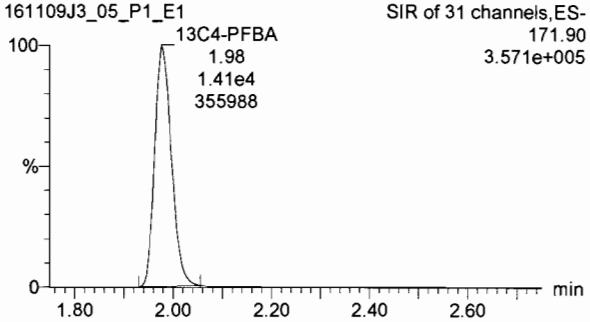
13C4-PFBA



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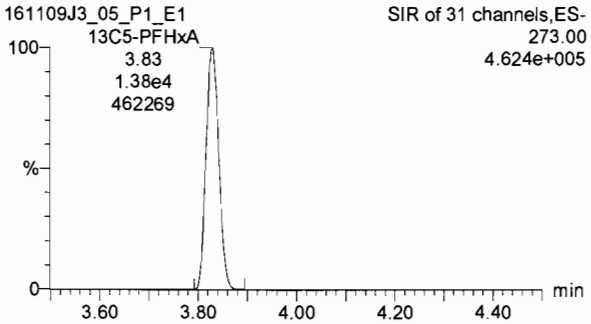

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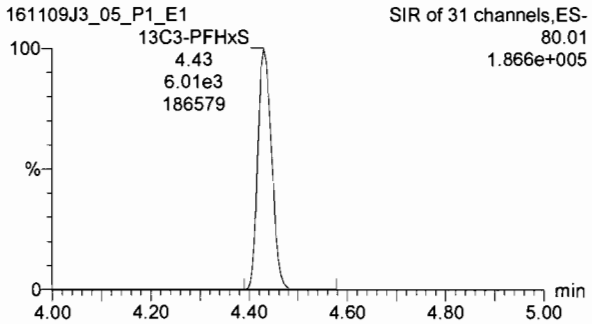

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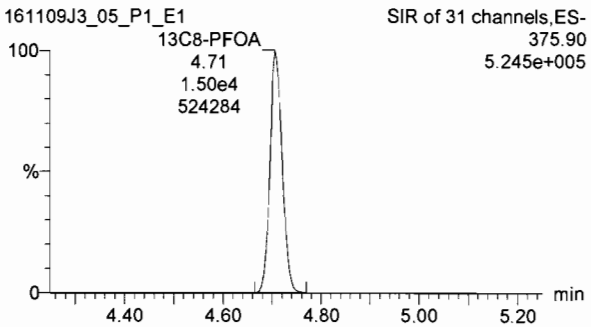

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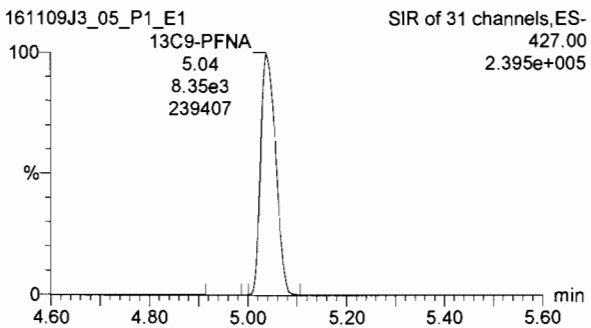

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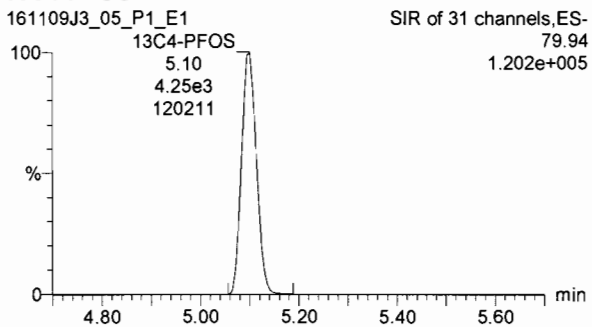

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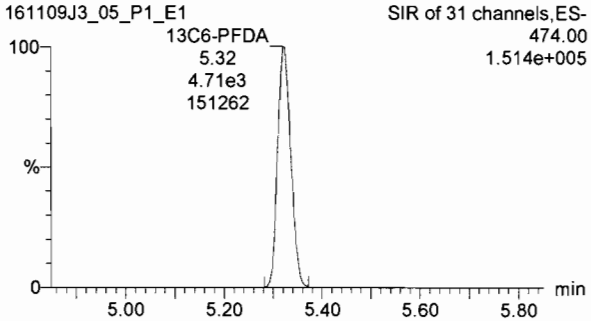

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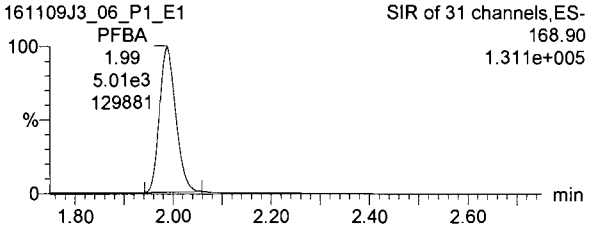

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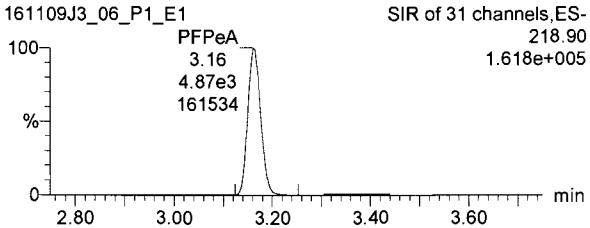

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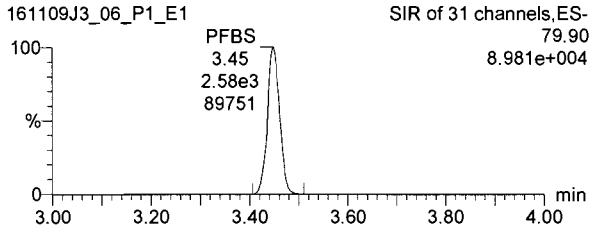

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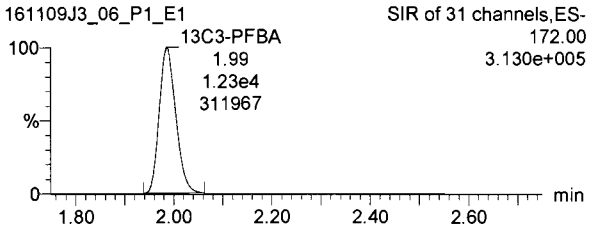

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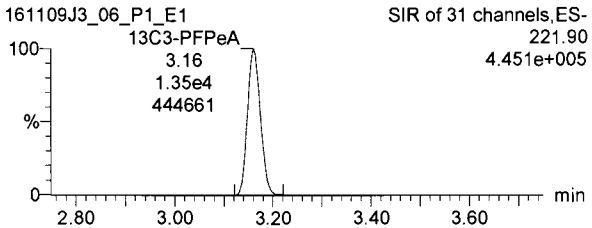

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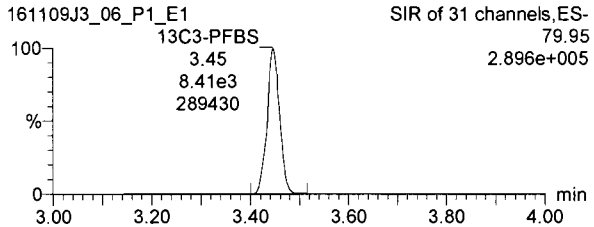

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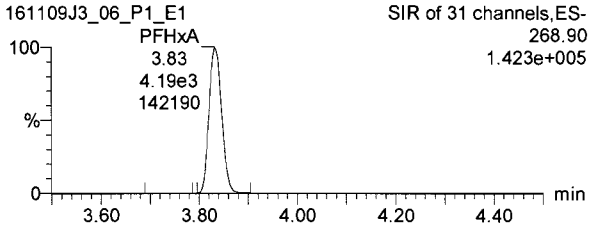

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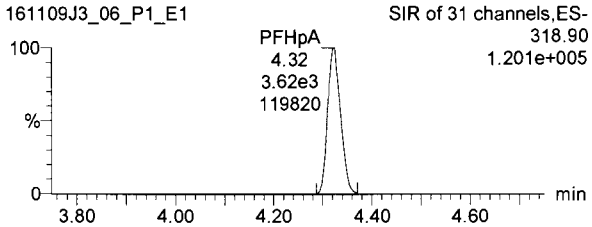

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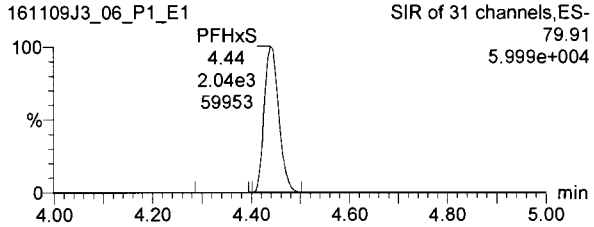

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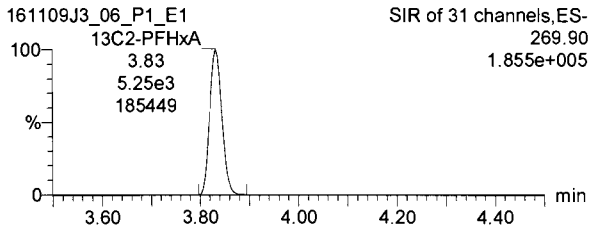

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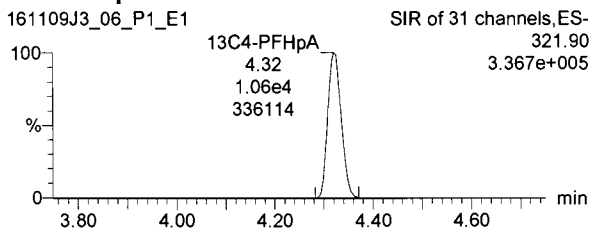

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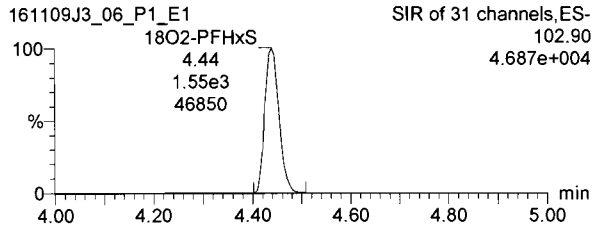

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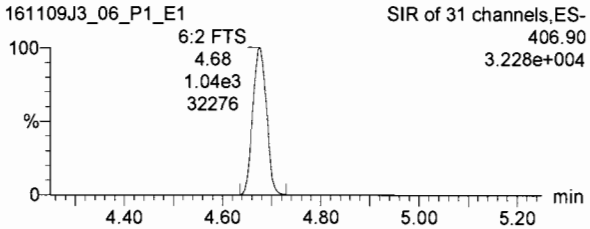

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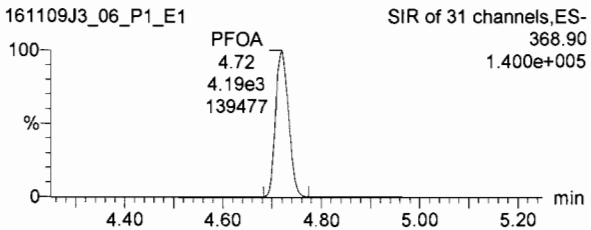

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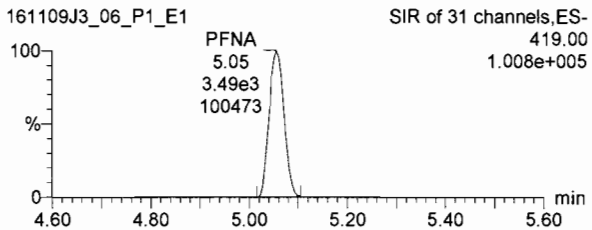

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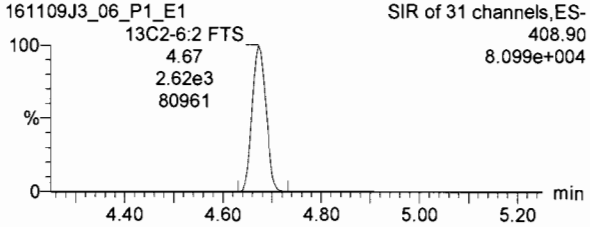

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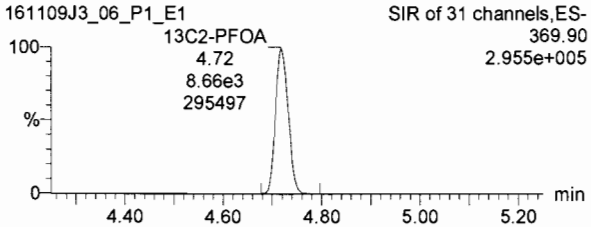

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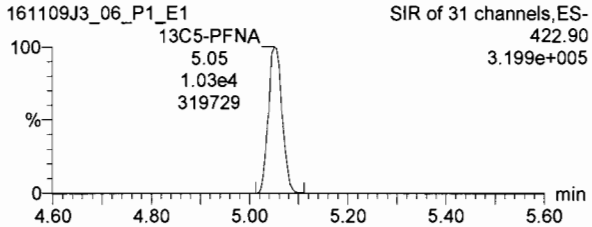

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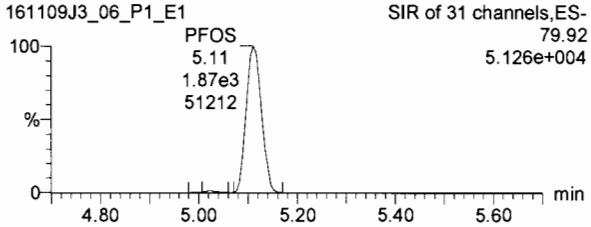

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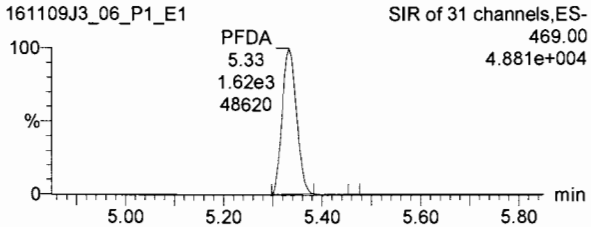

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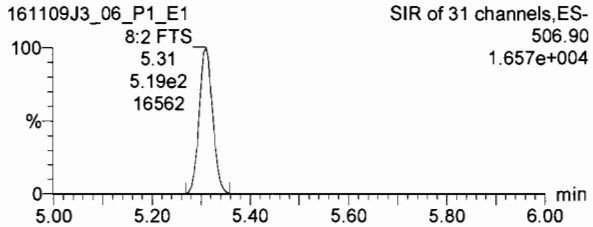

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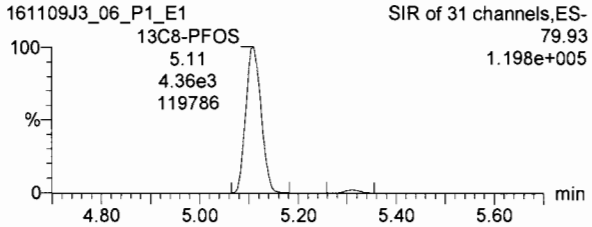

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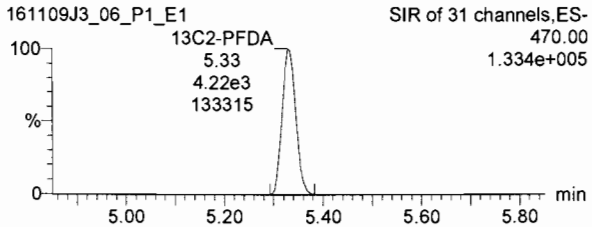

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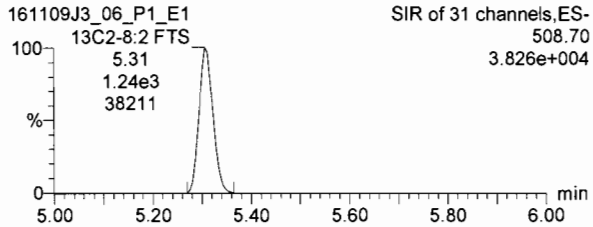

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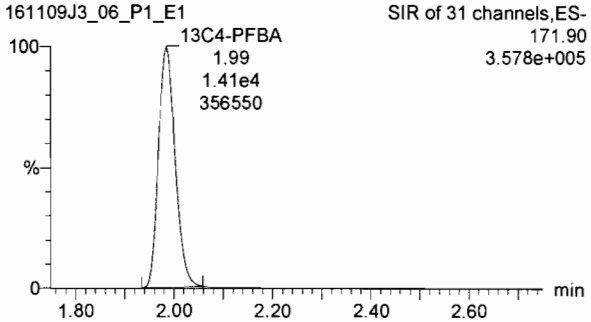

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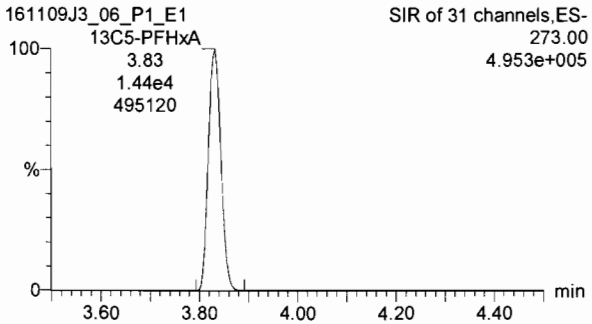

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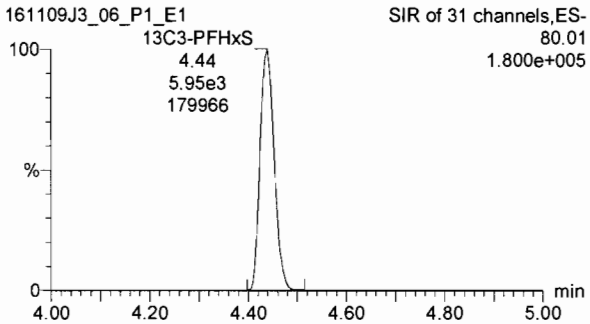

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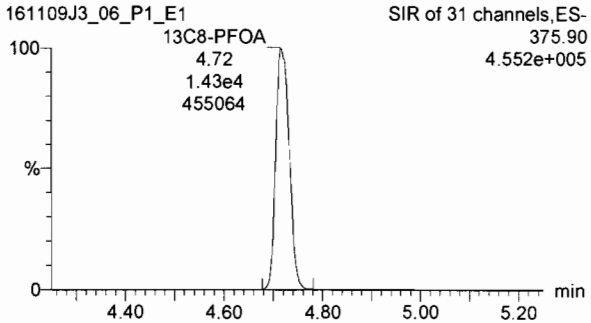

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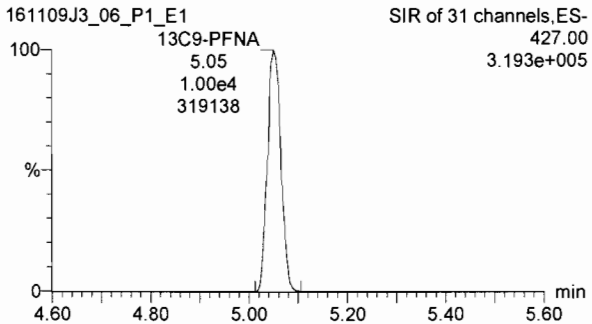

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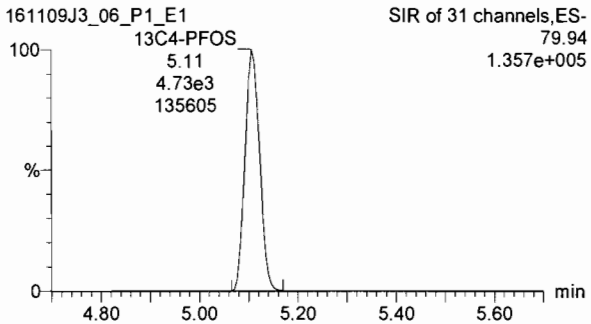

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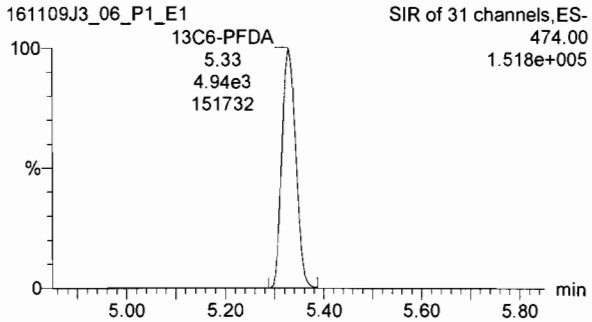

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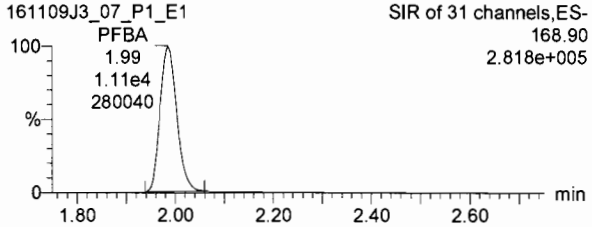

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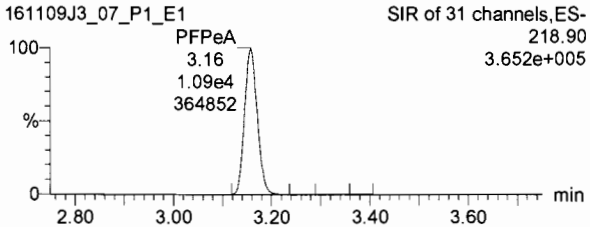

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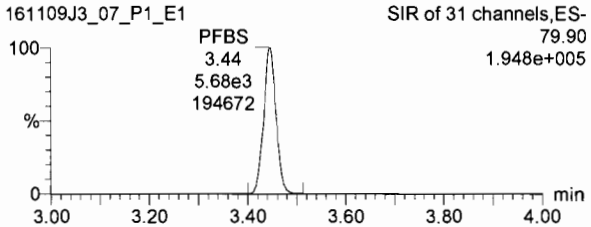

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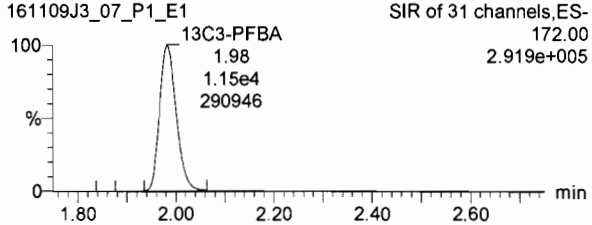

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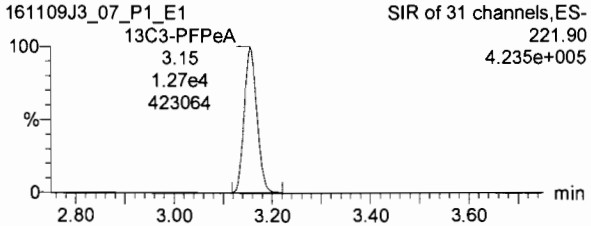

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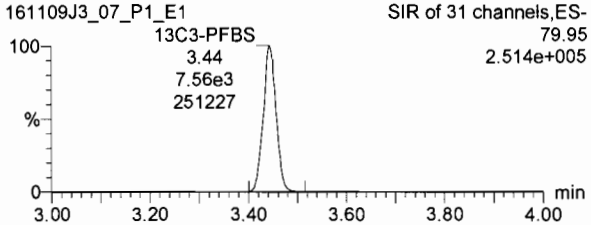

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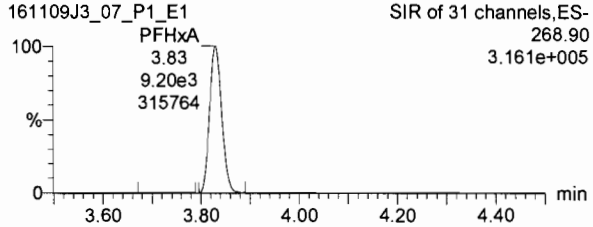

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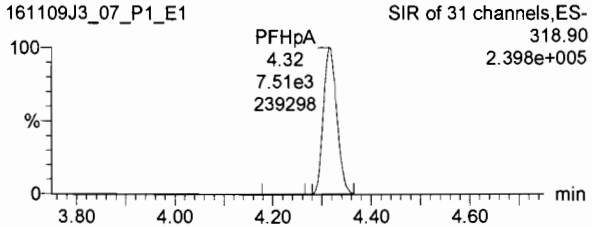

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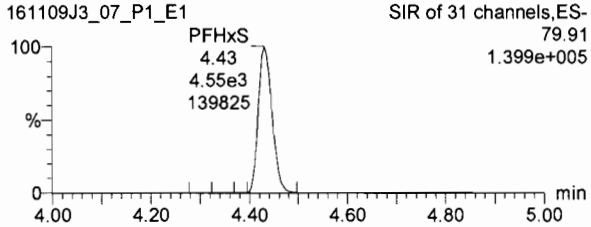

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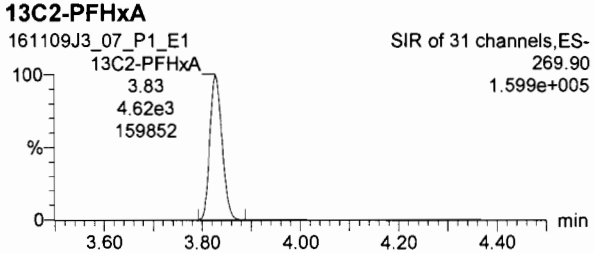

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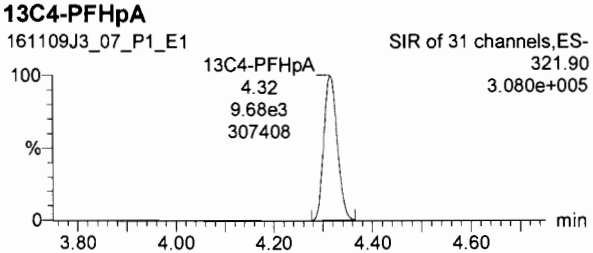

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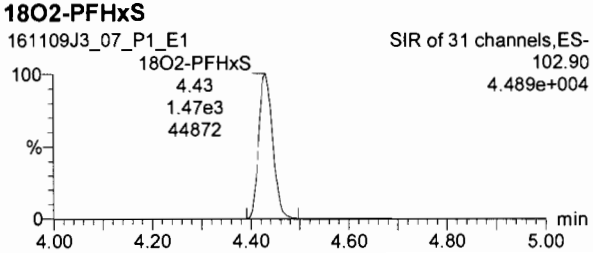

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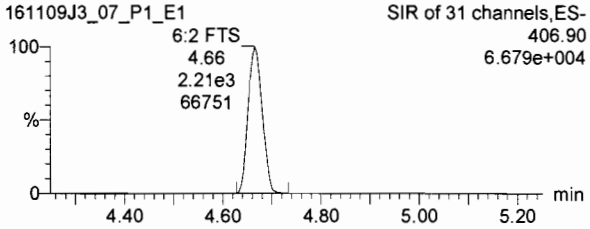

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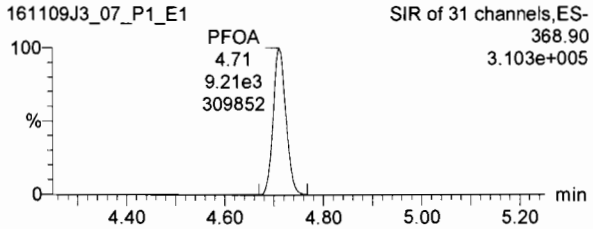

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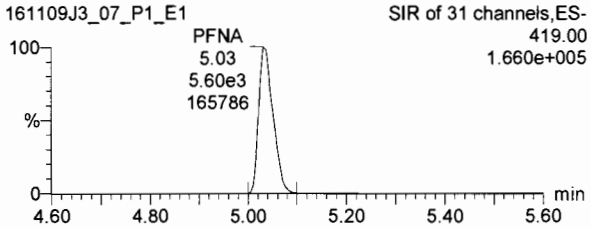

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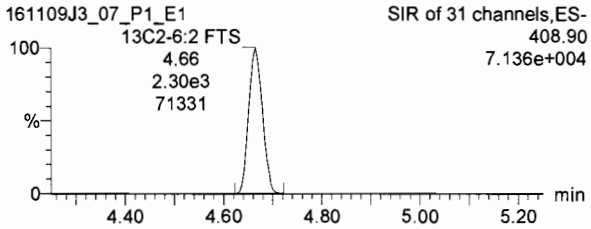

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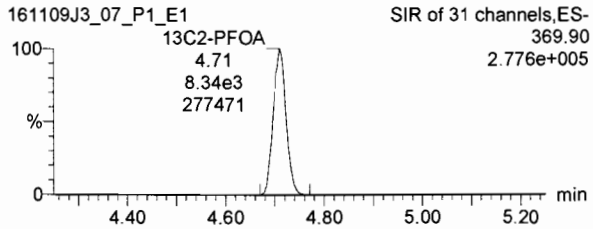

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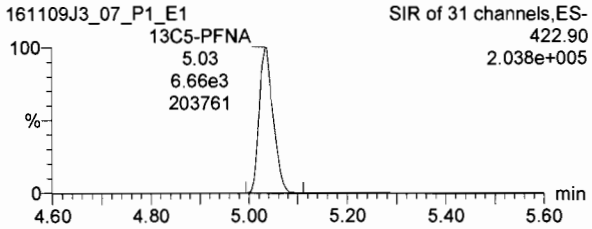

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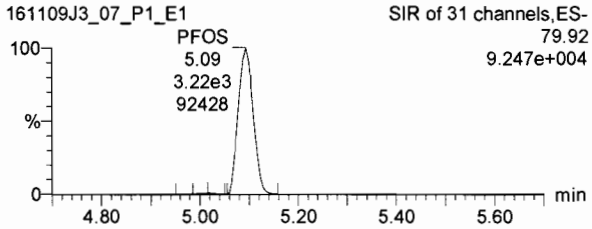

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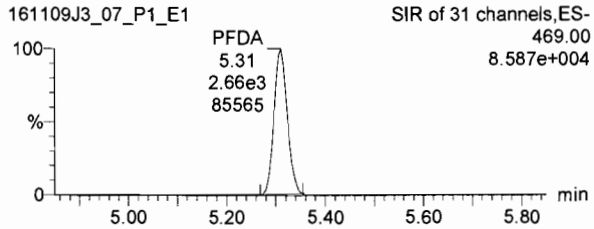

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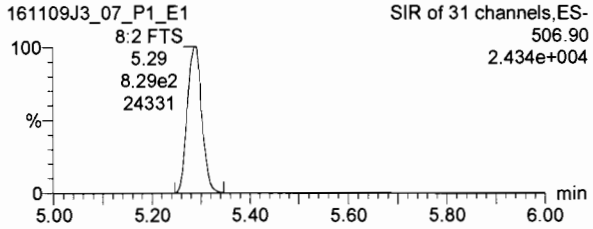

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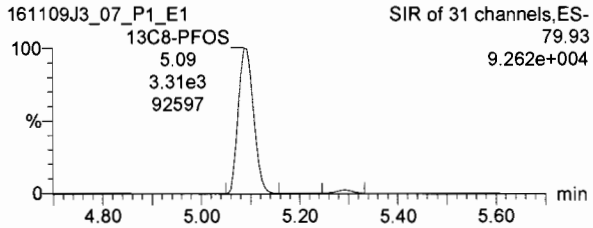

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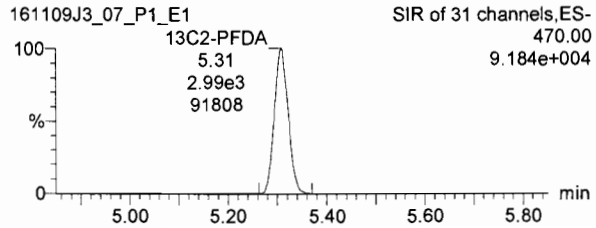

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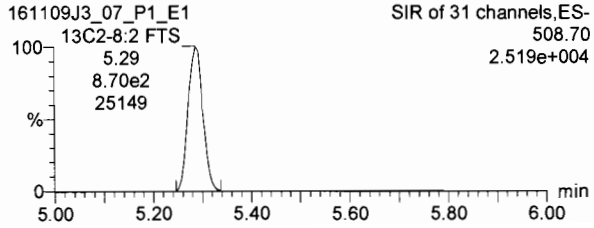

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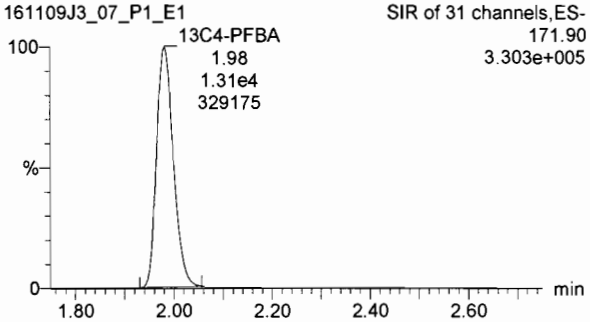

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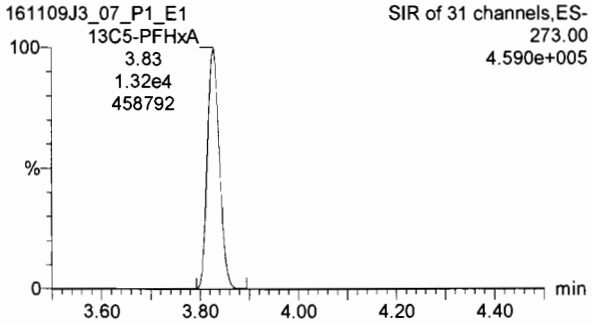

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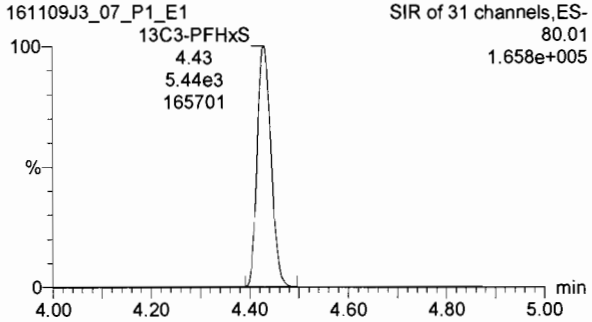

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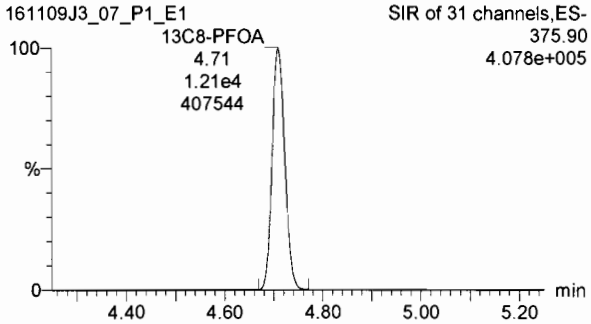

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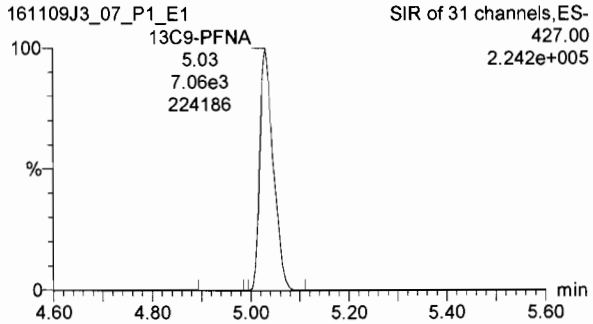

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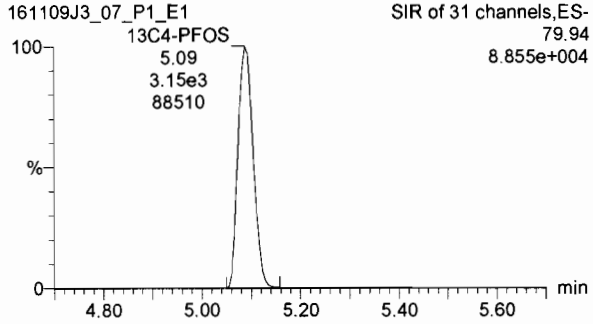

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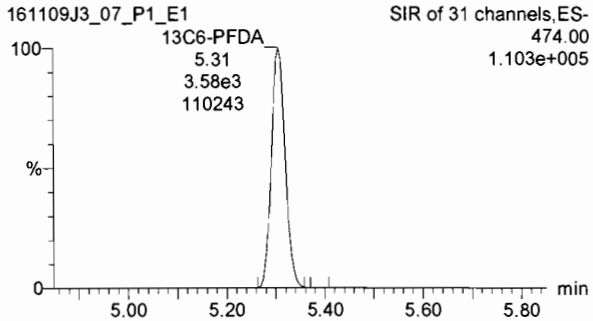

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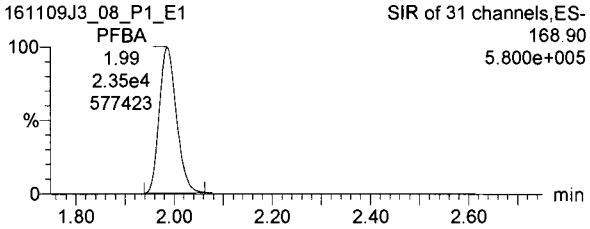

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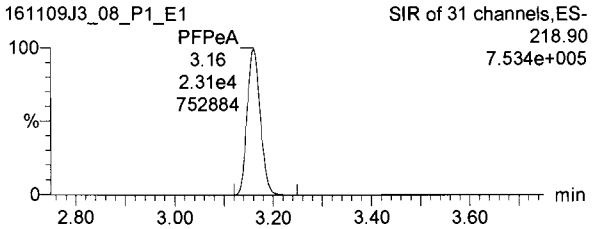

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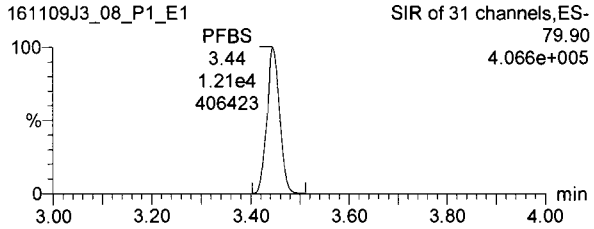

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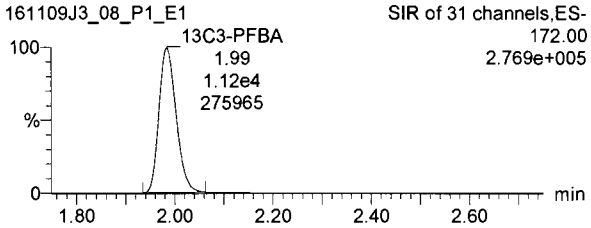

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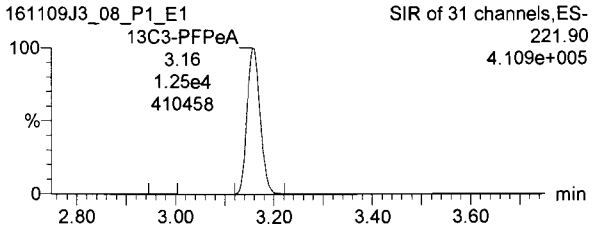

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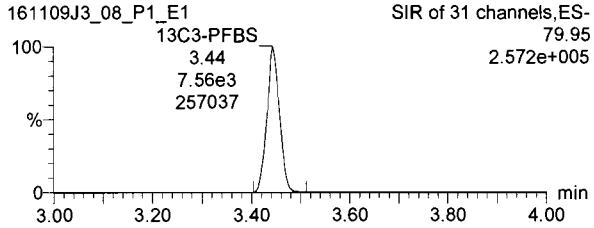

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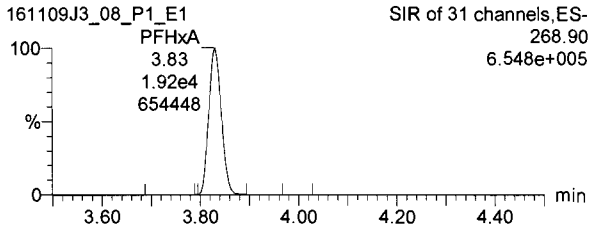

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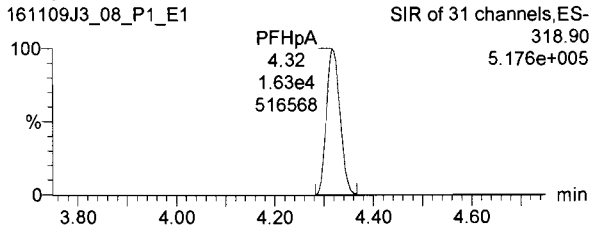

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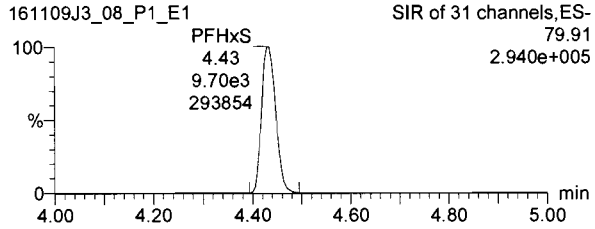

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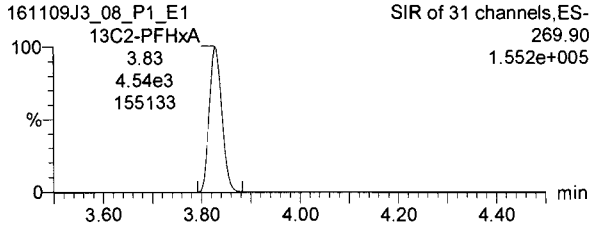

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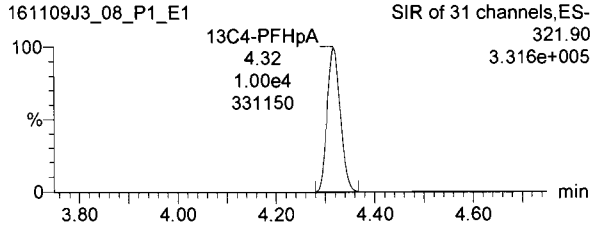

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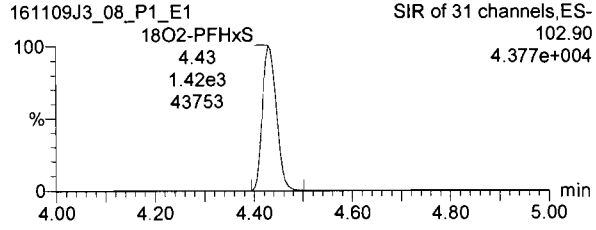

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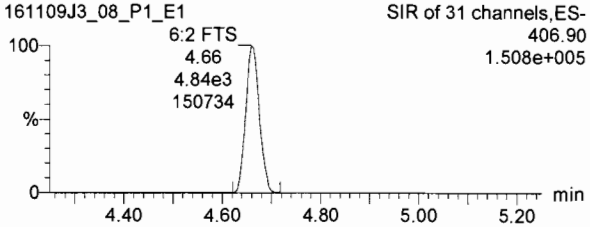

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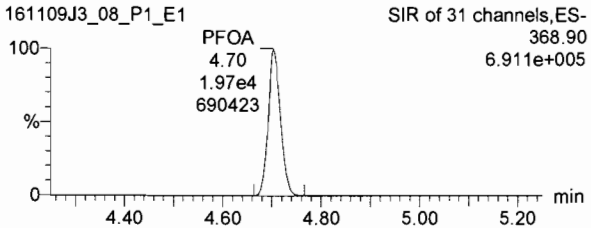

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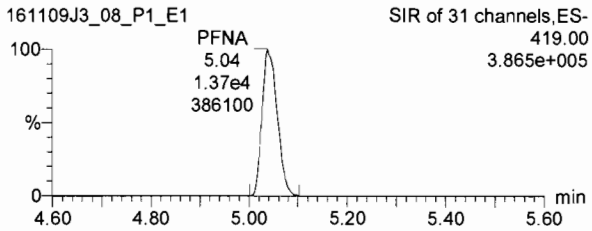

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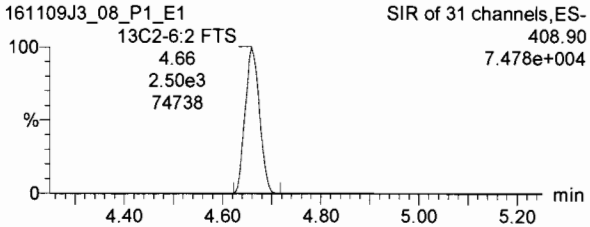

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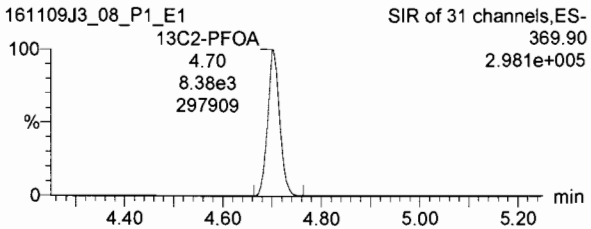

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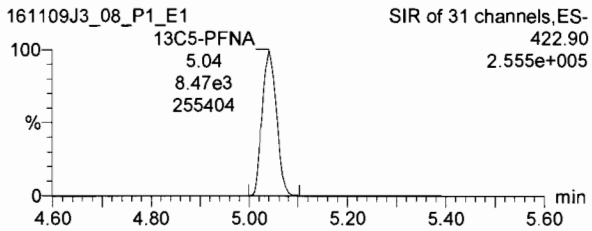

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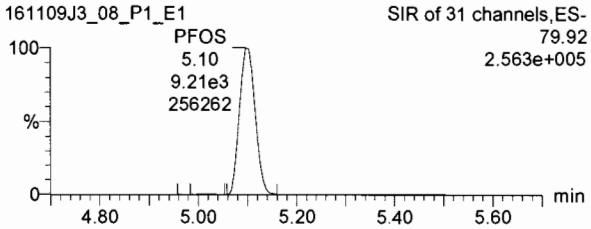

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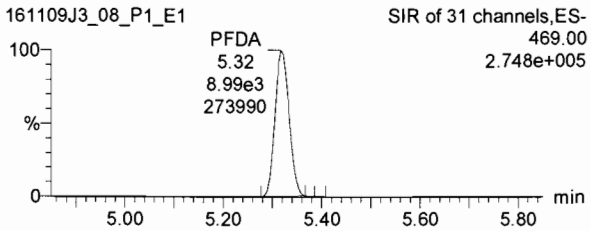

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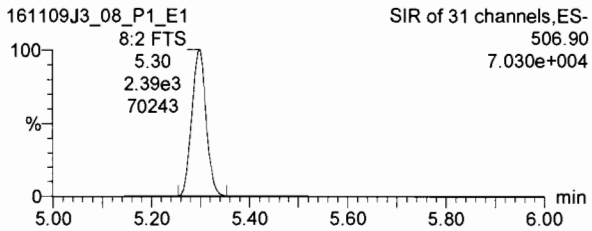

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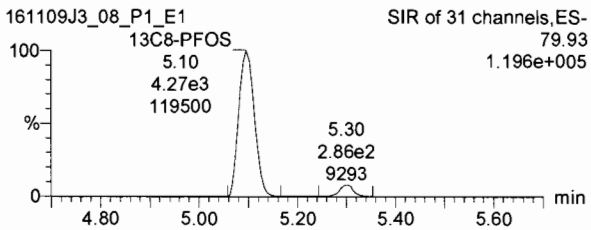

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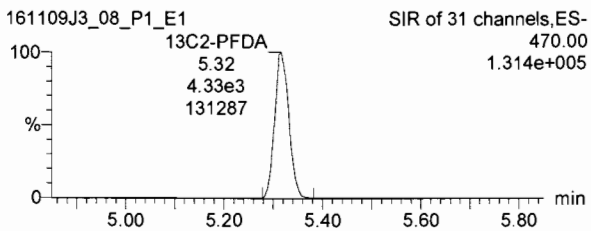

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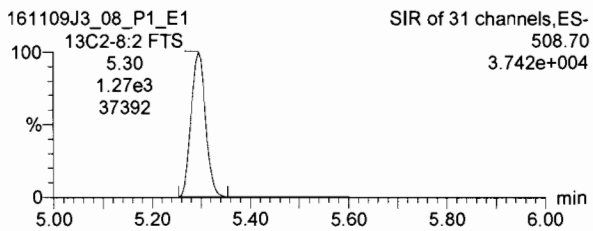

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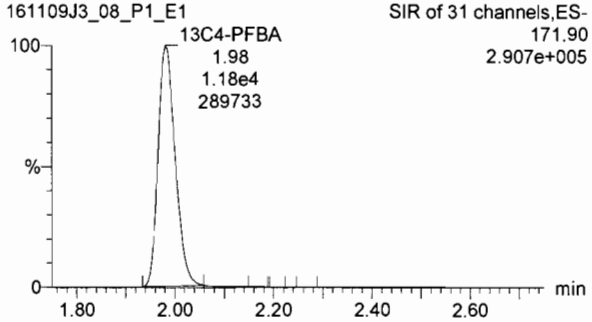

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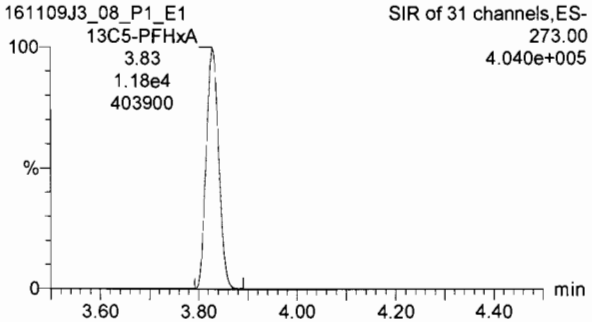

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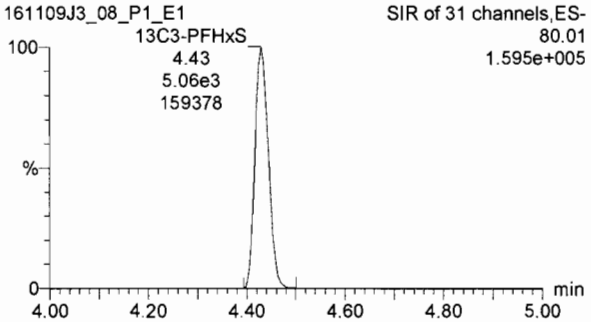

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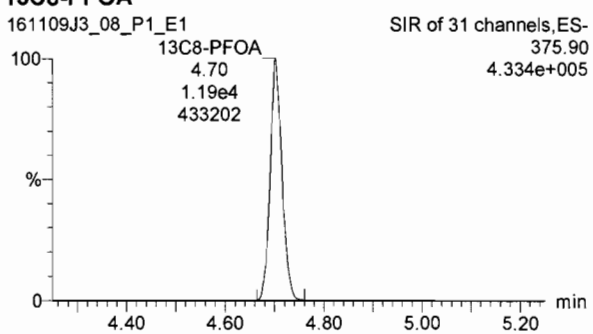

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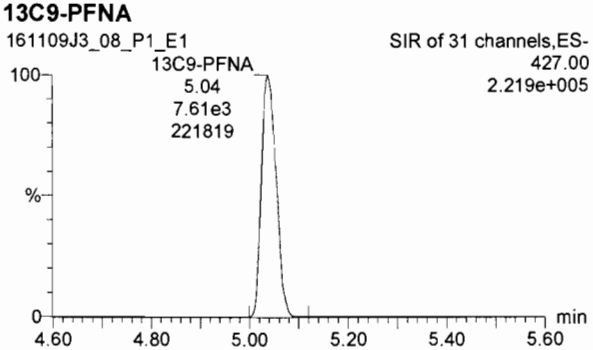

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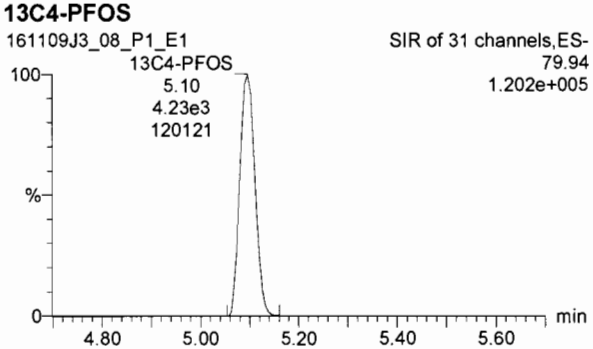

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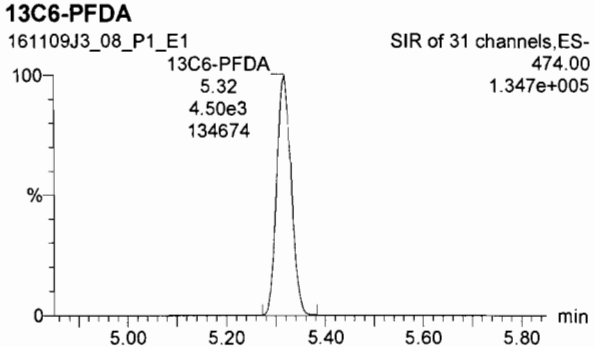

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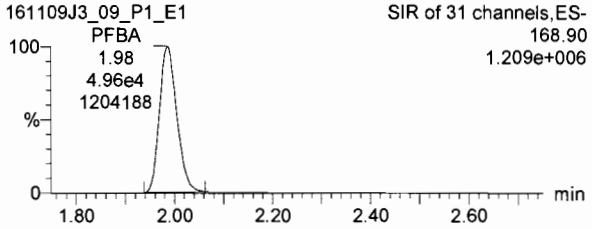

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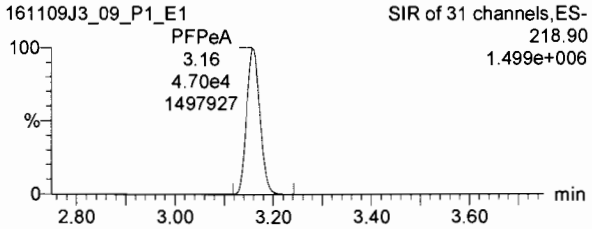

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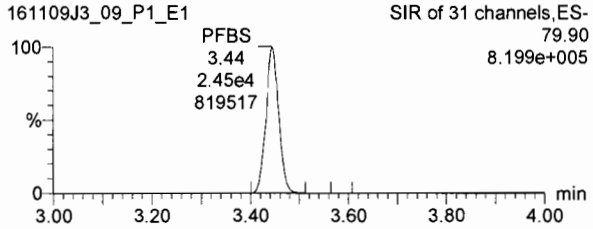

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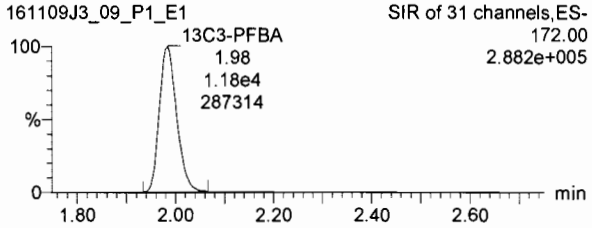

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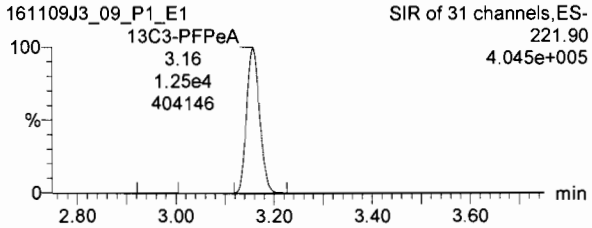

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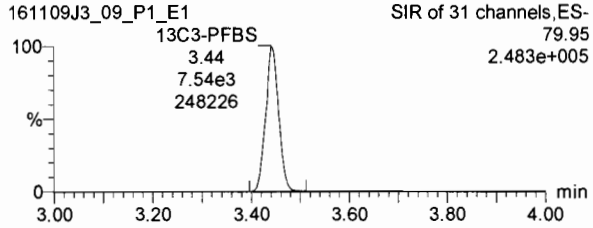

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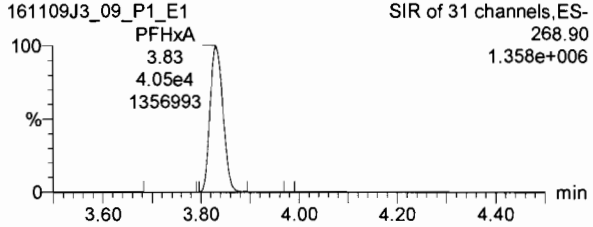

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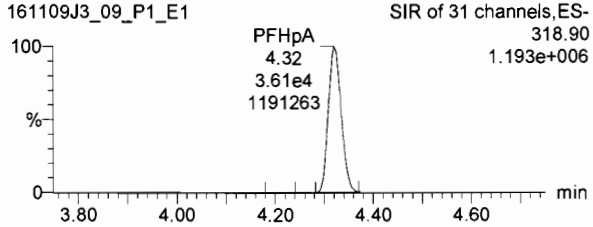

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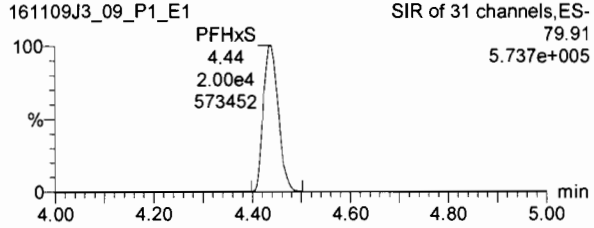

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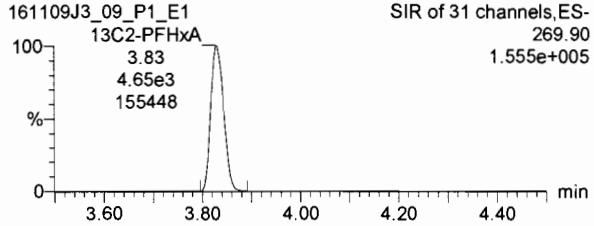

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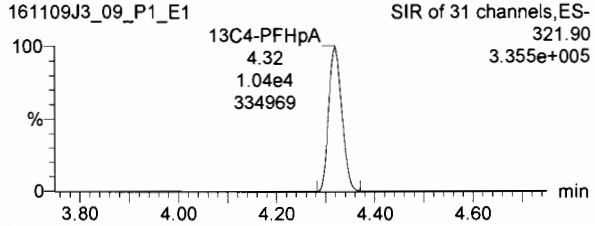

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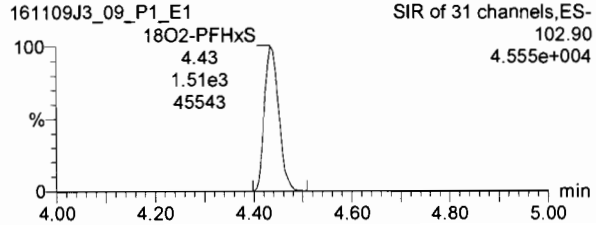

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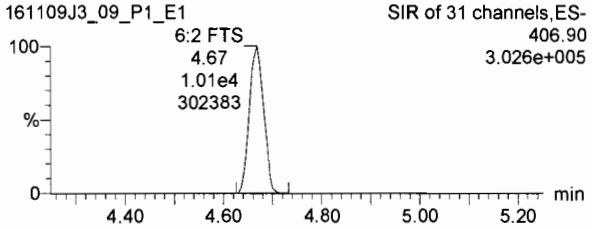

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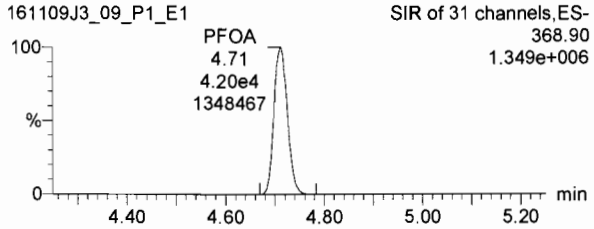

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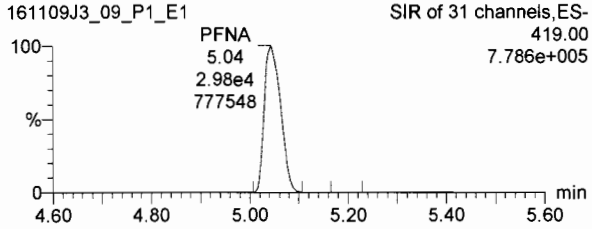

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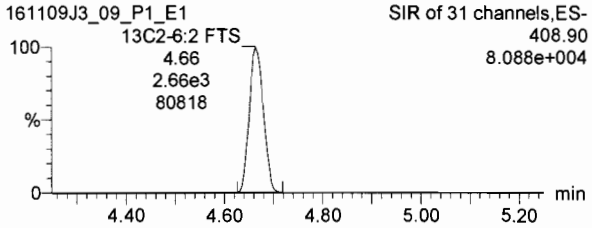

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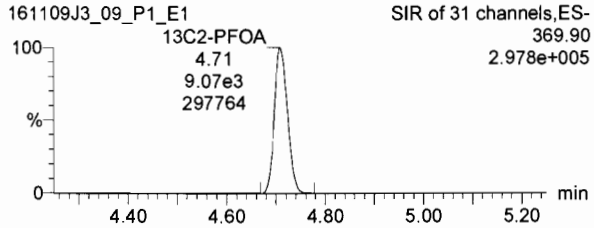

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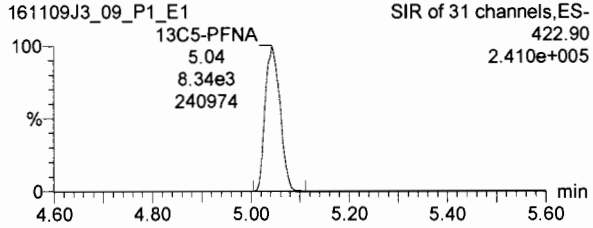

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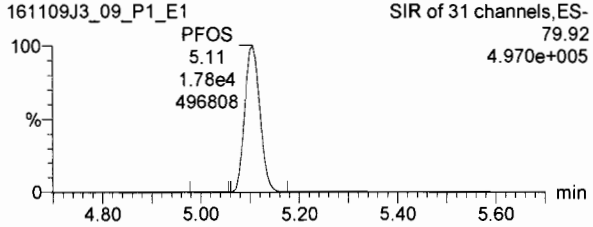

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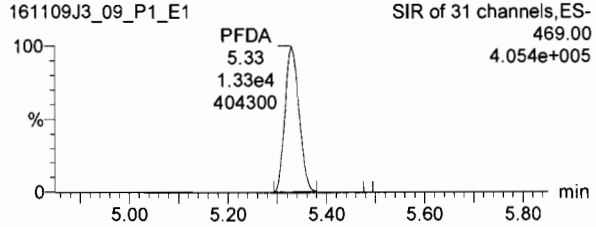

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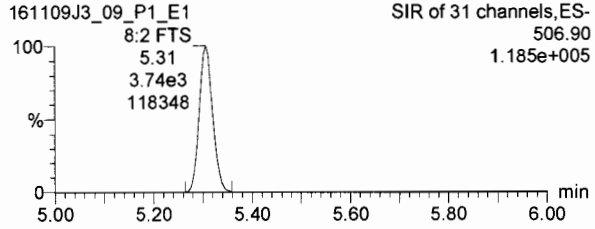

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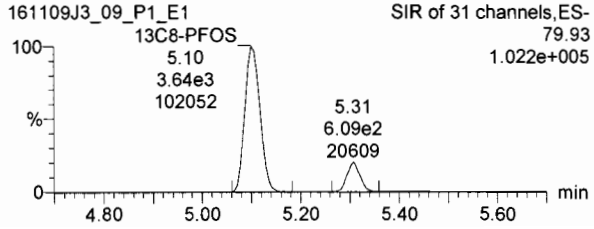

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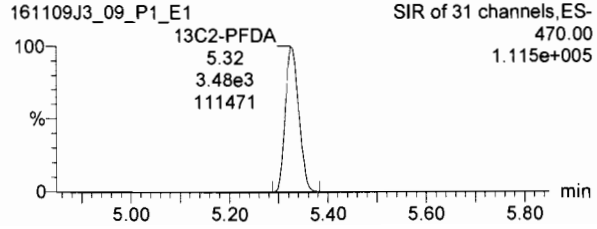

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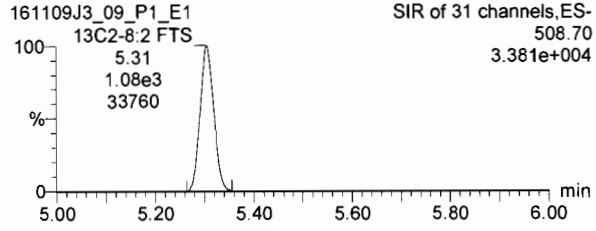

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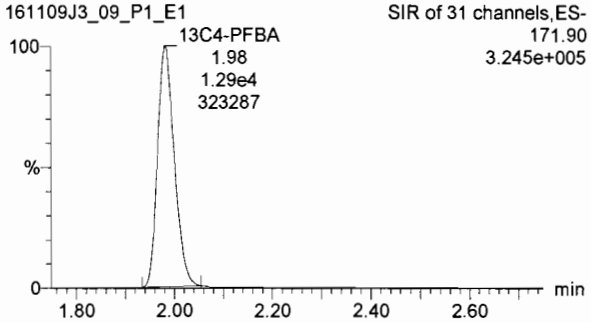
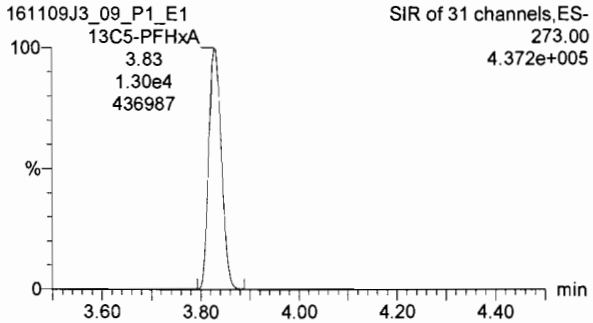
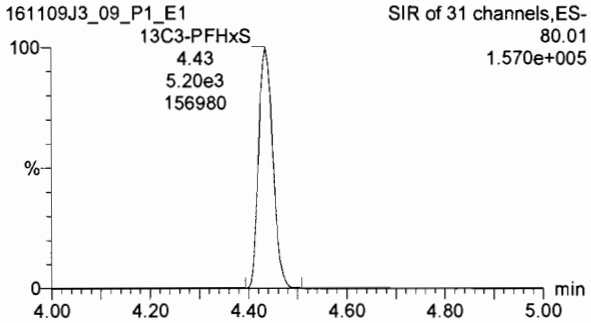
13C4-PFBA



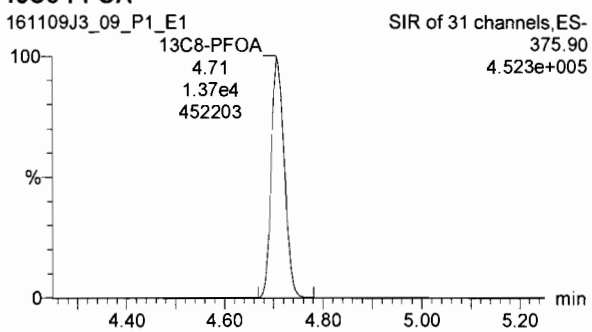
13C5-PFHxA



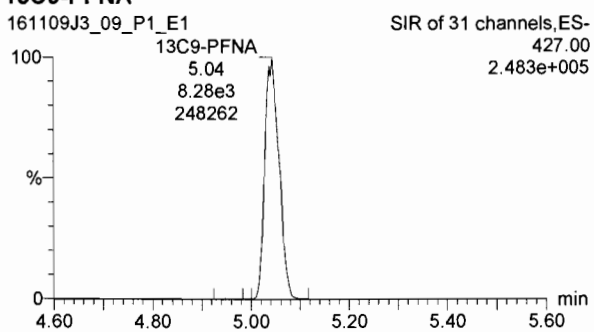
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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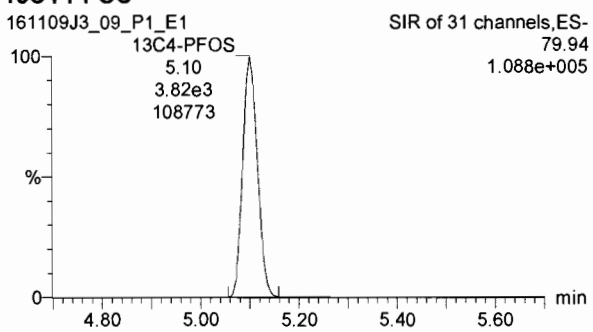
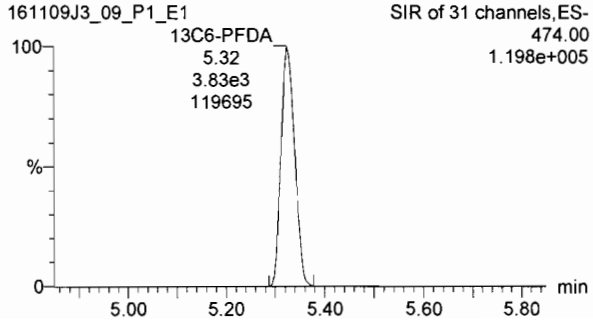


13C6-PFDA



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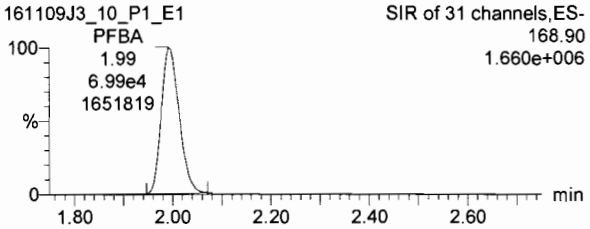

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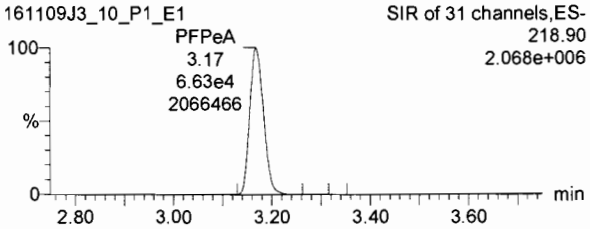

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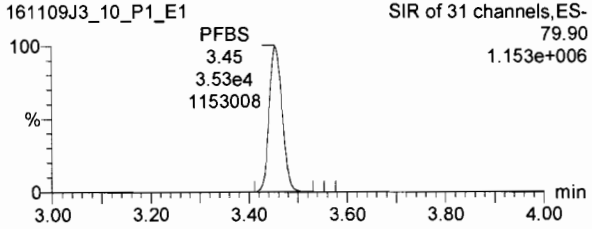

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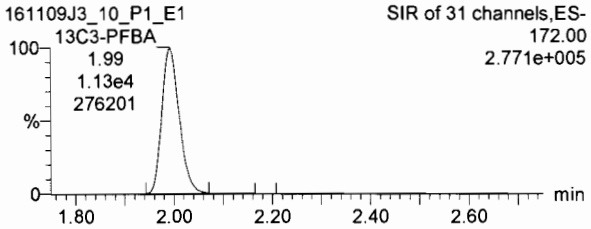

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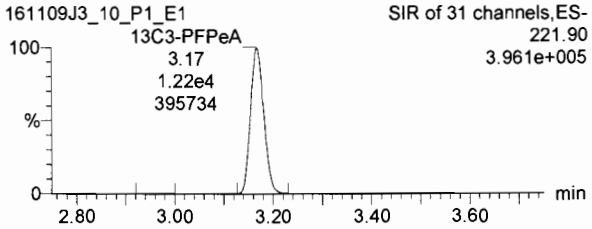

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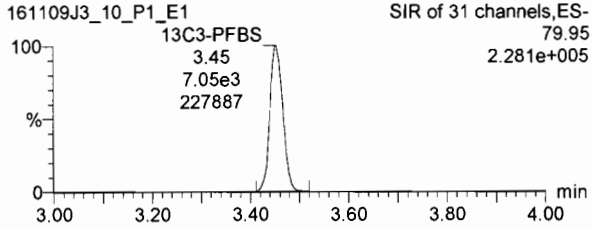

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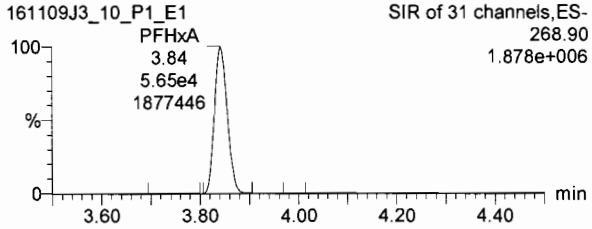

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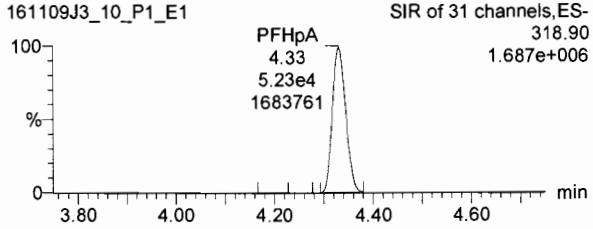

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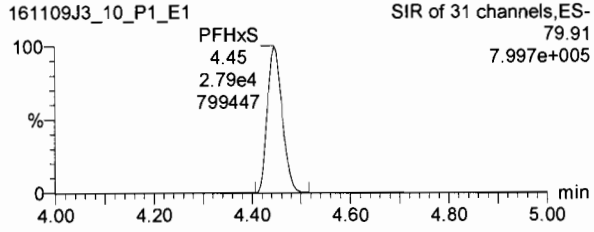
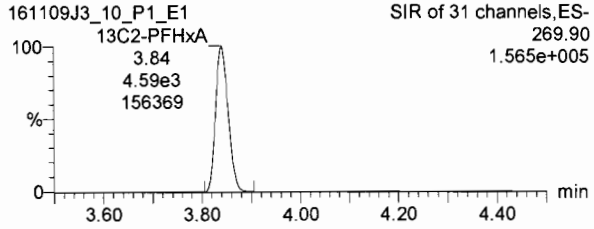
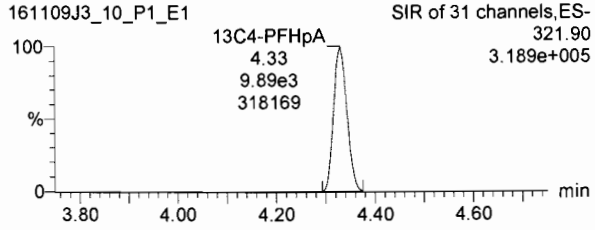


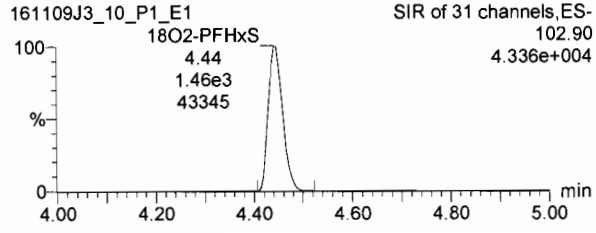
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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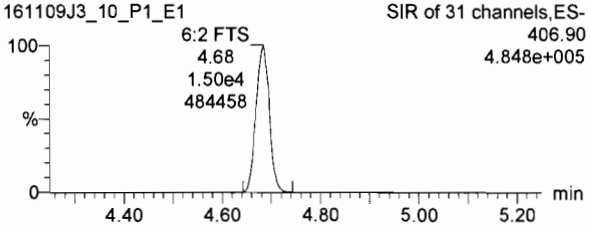
6:2 FTS



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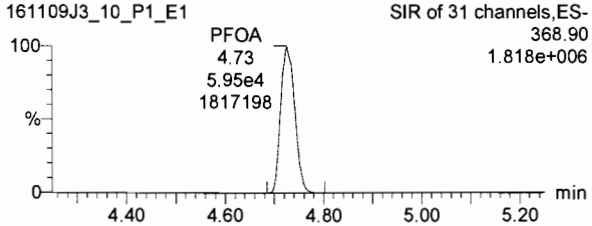

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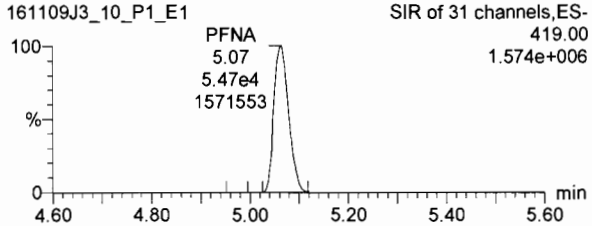

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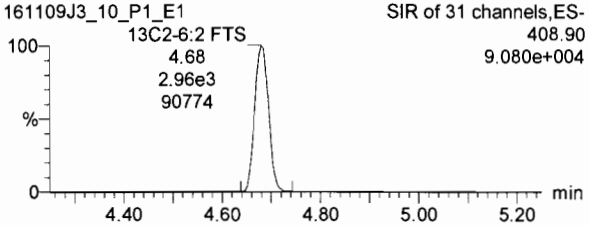

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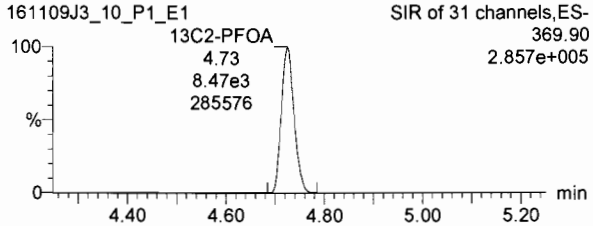

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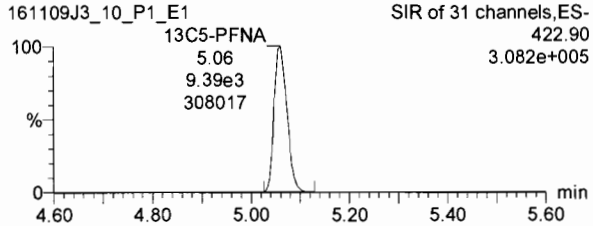

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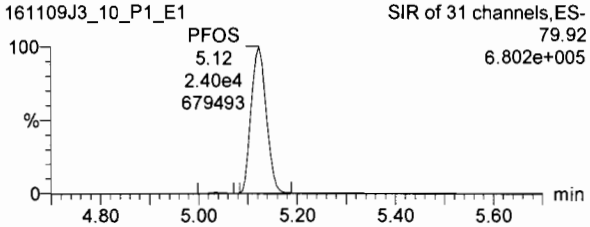

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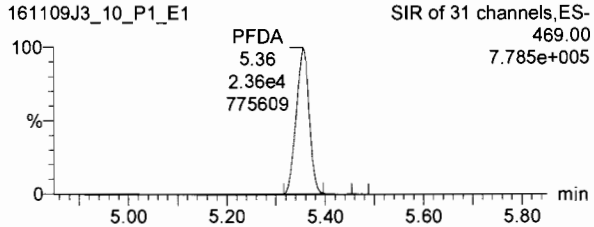
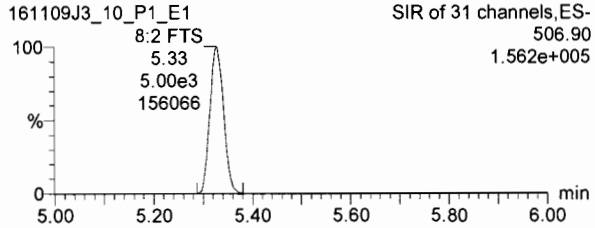


8:2 FTS



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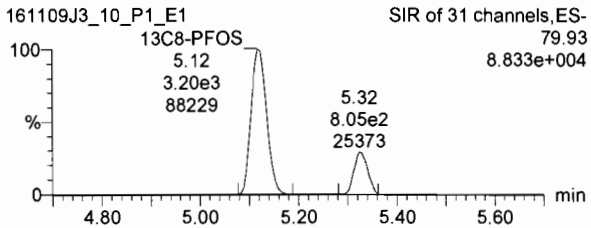

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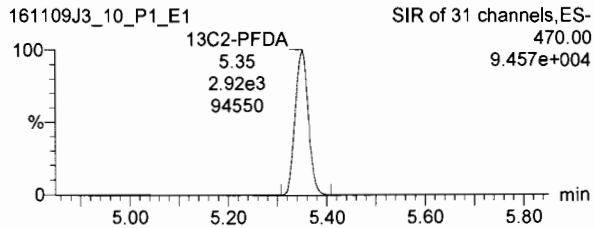
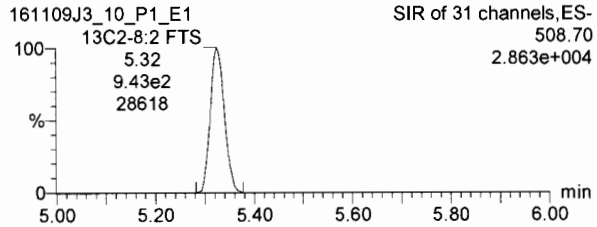


13C2-8:2 FTS



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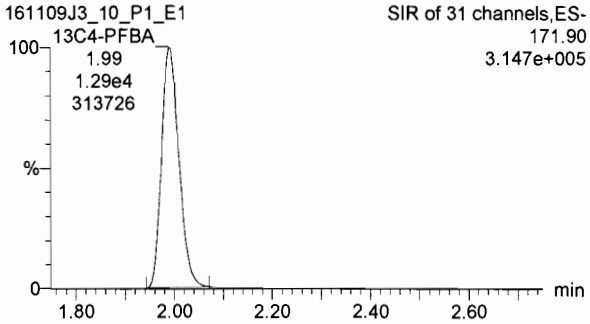
13C4-PFBA



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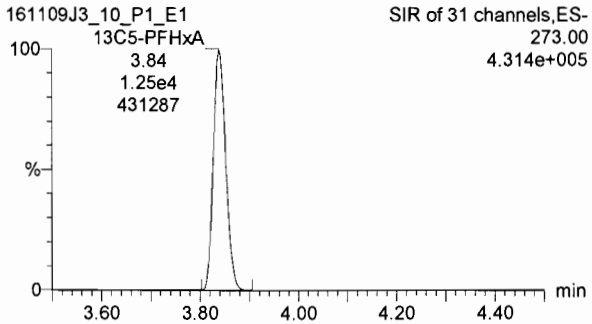

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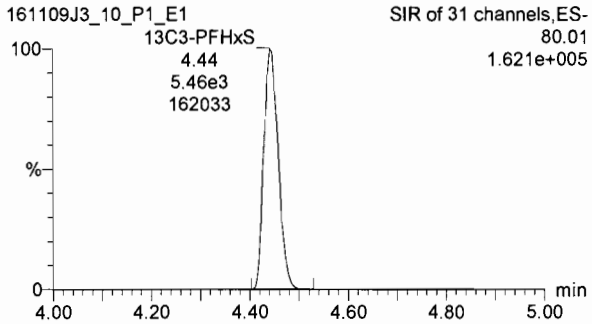

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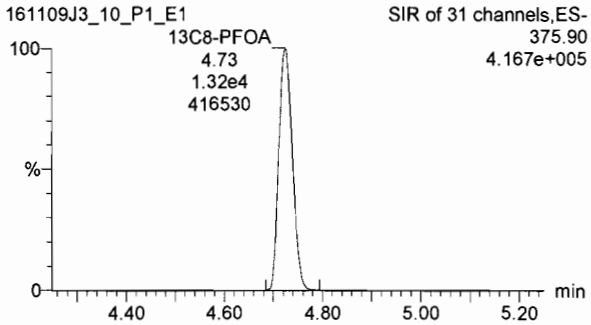

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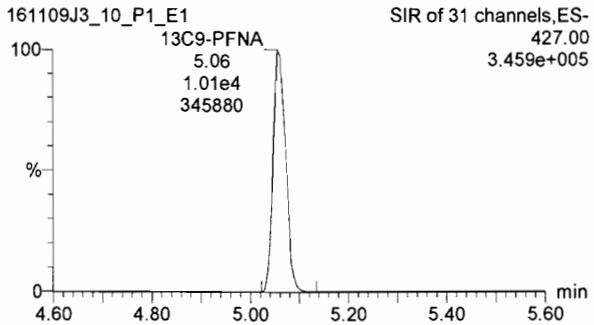

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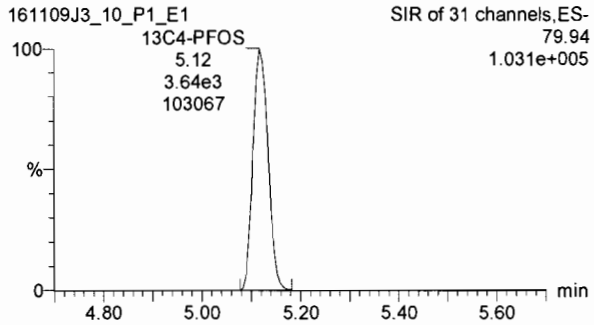

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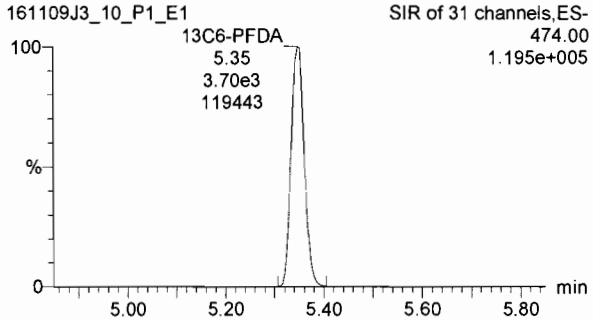

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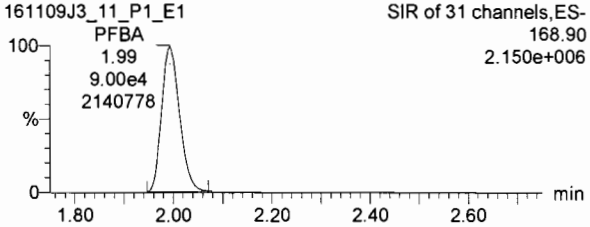

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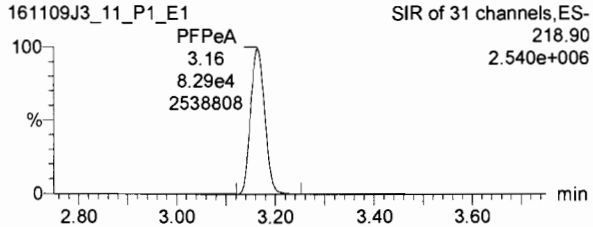

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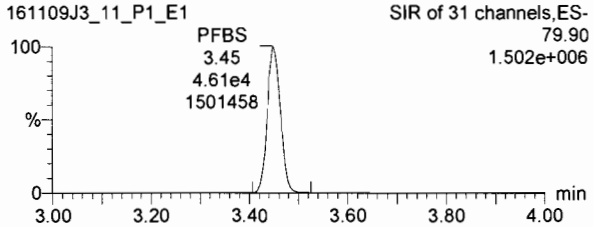

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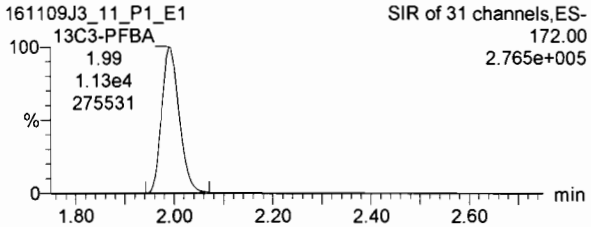

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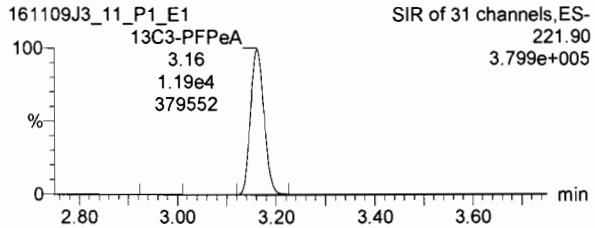

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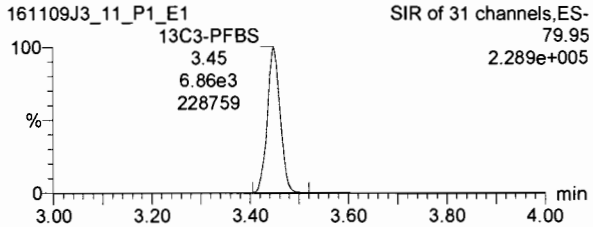

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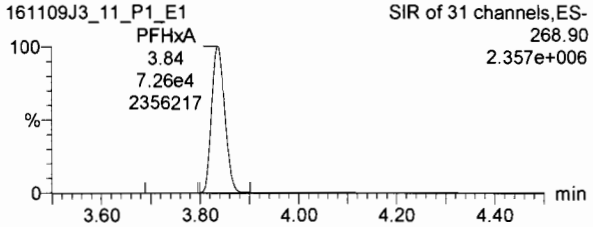

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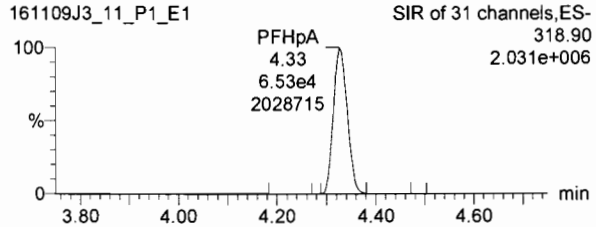

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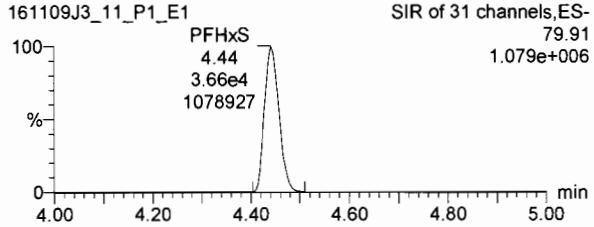

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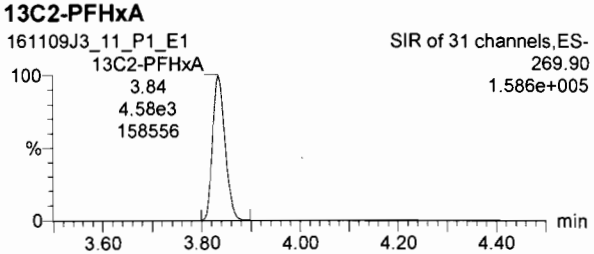

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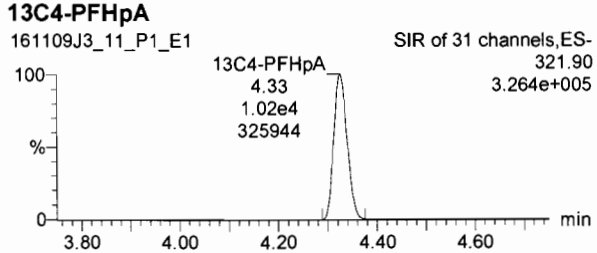
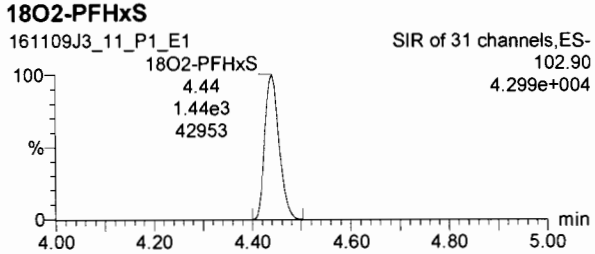


18O2-PFHxS



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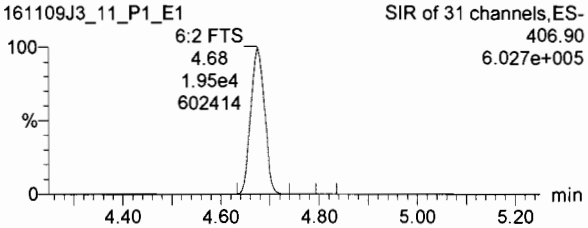

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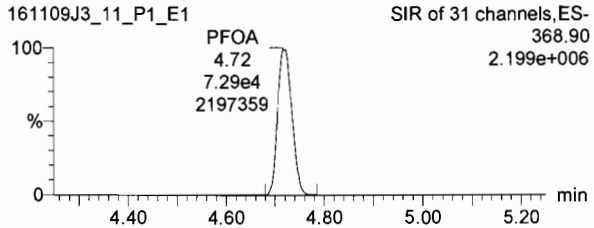

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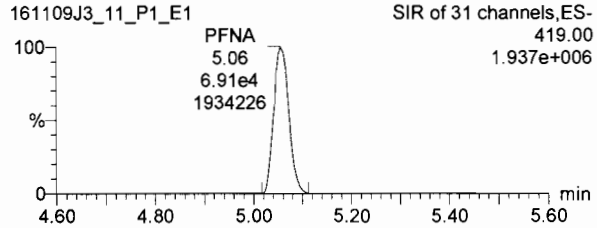
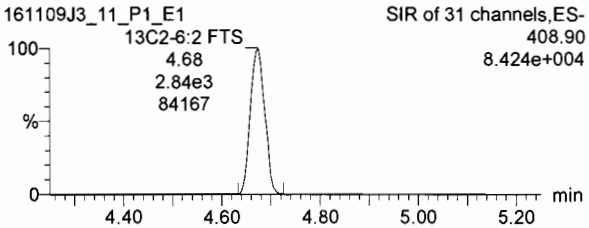
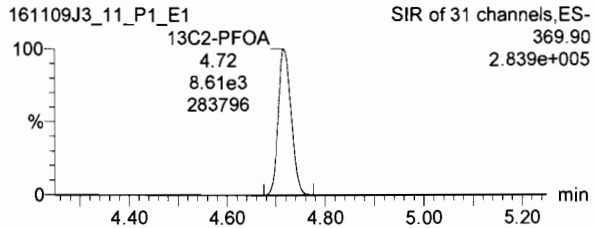


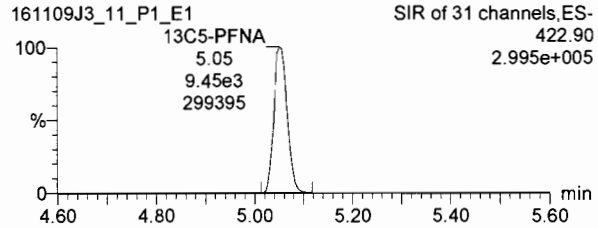
13C2-6:2 FTS



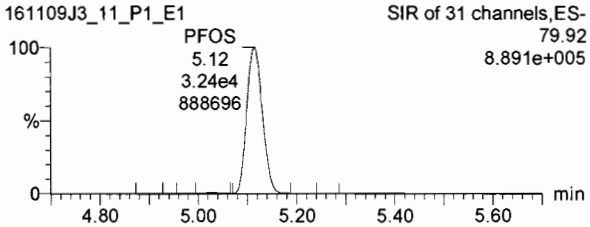
13C2-PFOA



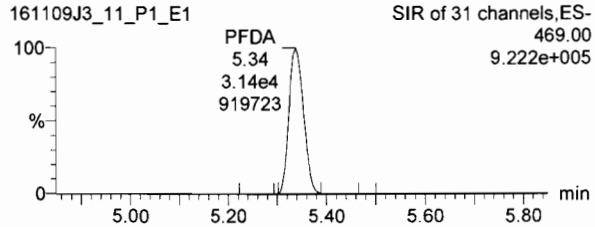
13C5-PFNA



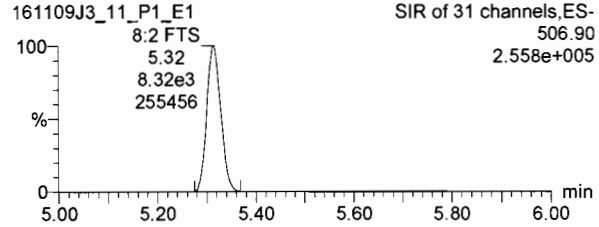
PFOS



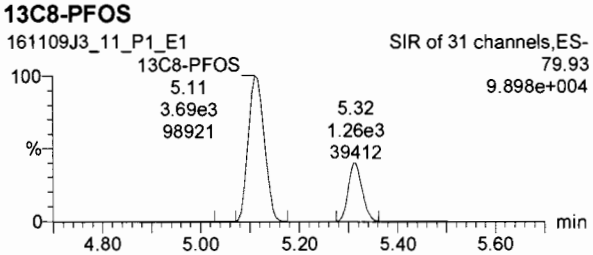
PFDA



8:2 FTS



13C8-PFOS



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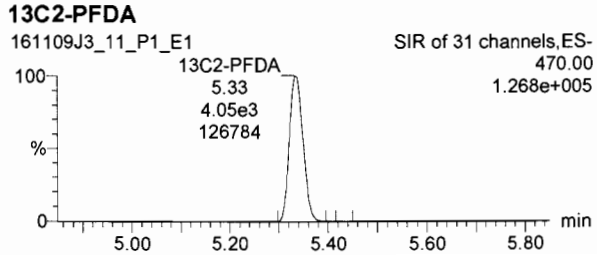
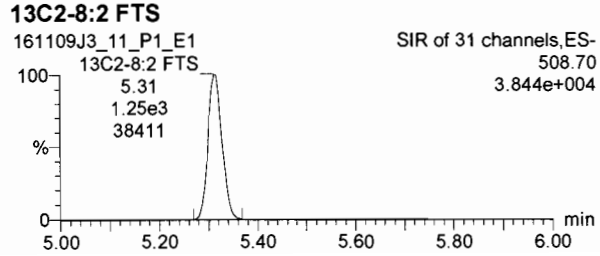


13C2-8:2 FTS

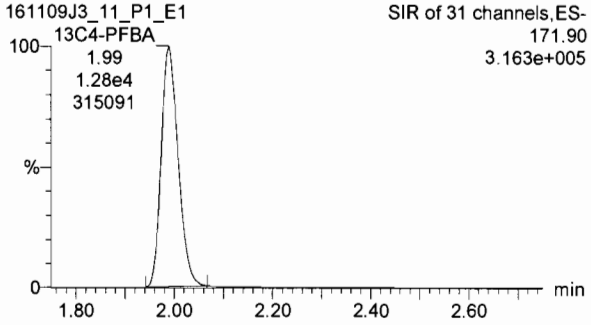


Dataset: U:\Q2.PRO\Results\161109J3\161109J3crv.qld

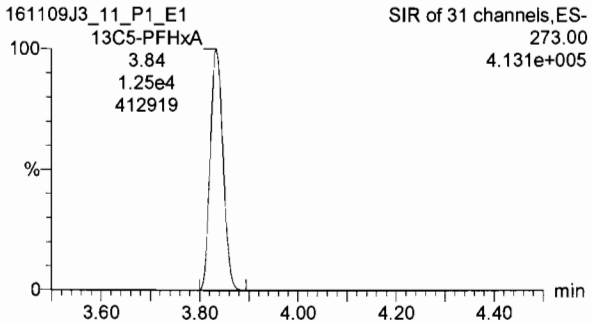
Last Altered: Thursday, November 10, 2016 11:18:17 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:29:47 Pacific Standard Time

Name: 161109J3_11.wiff, Date: 09-Nov-2016, Time: 16:57:21, ID: ST161109J3-10 PFC CS5 16K0927, Description: PFC CS5 16K0927 A

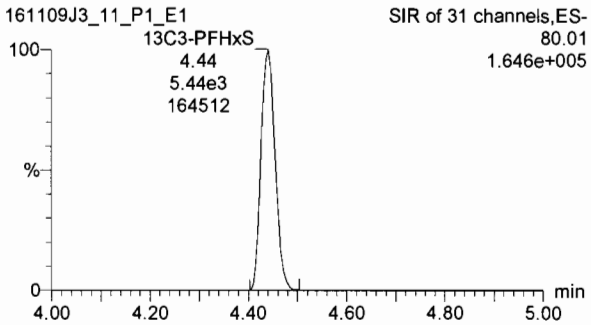
13C4-PFBA



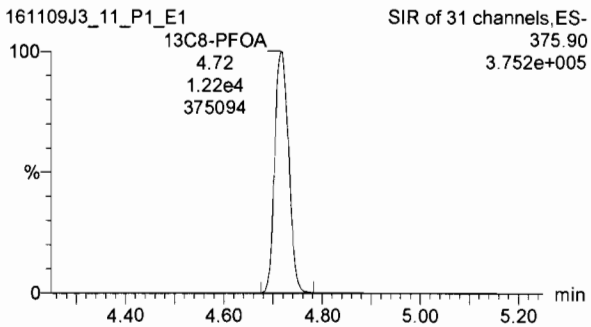
13C5-PFHxA



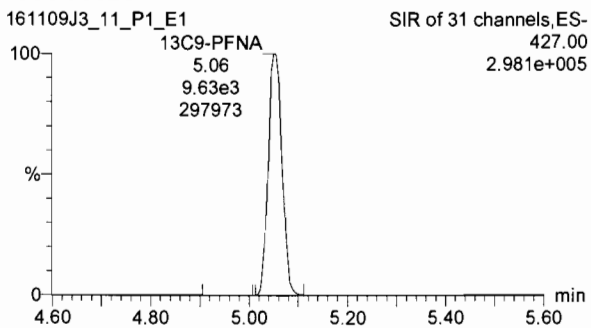
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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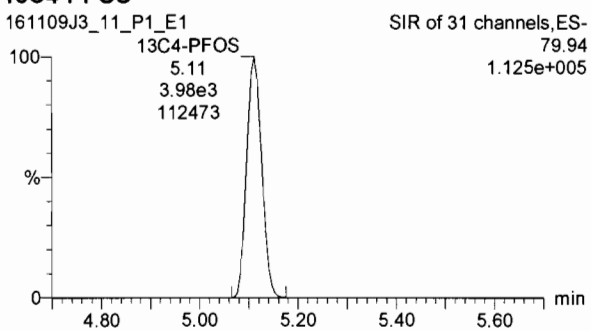
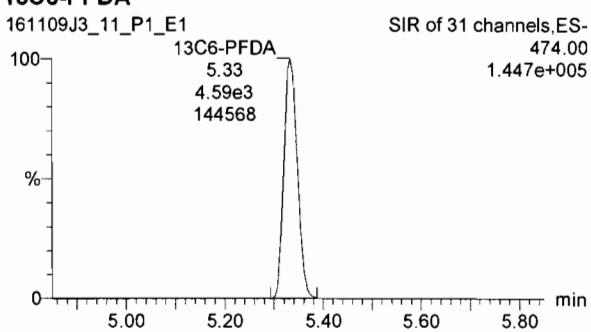


13C6-PFDA



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_13.qld

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Printed: Thursday, November 10, 2016 11:36:39 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Name: 161109J3_13.wiff, Date: 09-Nov-2016, Time: 17:21:50, ID: SS161109J3-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec	
1	1	PFBA	168.90	2.57e4	1.07e4		1.000	1.99	29.2	116.9	
2	2	PFPeA	218.90	1.86e4	1.17e4		1.000	3.16	21.9	87.5	
3	3	PFBS	79.90	1.16e4	7.12e3		1.000	3.44	24.5	97.8	
4	4	PFHxA	268.90	2.13e4	4.18e3		1.000	3.83	30.8	123.1	
5	5	PFHpA	318.90	1.73e4	7.93e3		1.000	4.32	31.0	123.8	
6	6	PFHxS	79.91	7.05e3	1.20e3		1.000	4.43	22.5	90.2	111.2 (A)
7	7	6:2 FTS	406.90	4.14e3	2.04e3		1.000	4.66	25.4	101.4	
8	8	PFOA	368.90	1.41e4	6.89e3		1.000	4.71	22.4	89.8	113.7 (A)
9	9	PFNA	419.00	1.28e4	6.09e3		1.000	5.04	28.4	113.5	
10	10	PFOS	79.92	4.45e3	2.53e3		1.000	5.10	18.8	75.3	95.4 (A)
11	11	PFDA	469.00	4.43e3	1.66e3		1.000	5.32	30.8	123.4	
12	12	8:2 FTS	506.90	8.37e2	4.92e2		1.000	5.30	21.7	86.8	
13	13	13C3-PFBA	172.00	1.07e4	1.22e4	0.875	1.000	1.99	12.5	100.1	
14	14	13C3-PFPeA	221.90	1.17e4	1.17e4	0.956	1.000	3.16	13.0	104.3	
15	15	13C3-PFBS	79.95	7.12e3	1.17e4	0.570	1.000	3.44	13.3	106.3	
16	16	13C2-PFHxA	269.90	4.18e3	1.17e4	0.896	1.000	3.83	4.96	99.3	
17	17	13C4-PFHpA	321.90	7.93e3	1.17e4	0.754	1.000	4.32	11.2	89.6	
18	18	18O2-PFHxS	102.90	1.20e3	4.30e3	0.267	1.000	4.43	13.1	104.5	
19	19	13C2-6:2 FTS	408.90	2.04e3	9.76e3	0.193	1.000	4.66	13.5	108.1	
20	20	13C2-PFOA	369.90	6.89e3	9.76e3	0.646	1.000	4.71	13.7	109.4	
21	21	13C5-PFNA	422.90	6.09e3	6.13e3	0.972	1.000	5.04	12.8	102.2	
22	22	13C8-PFOS	79.93	2.53e3	2.66e3	0.922	1.000	5.10	12.9	102.9	
23	23	13C2-PFDA	470.00	1.66e3	2.08e3	0.846	1.000	5.32	11.7	93.9	
24	24	13C2-8:2 FTS	508.70	4.92e2	2.08e3	0.257	1.000	5.30	11.5	92.1	
25	25	13C4-PFBA	171.90	1.22e4	1.22e4	1.000	1.000	1.99	12.5	100.0	
26	26	13C5-PFHxA	273.00	1.17e4	1.17e4	1.000	1.000	3.83	12.5	100.0	
27	27	13C3-PFHxS	80.01	4.30e3	4.30e3	1.000	1.000	4.43	12.5	100.0	
28	28	13C8-PFOA	375.90	9.76e3	9.76e3	1.000	1.000	4.71	12.5	100.0	
29	29	13C4-PFOS	79.94	2.66e3	2.66e3	1.000	1.000	5.10	12.5	100.0	
30	30	13C9-PFNA	427.00	6.13e3	6.13e3	1.000	1.000	5.03	12.5	100.0	
31	31	13C6-PFDA	474.00	2.08e3	2.08e3	1.000	1.000	5.32	12.5	100.0	

Limits
75-125

PW
11/10/16

(A) % Rec Calc. using linear isomer in mix.
PW
11/10/16

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_13.qld

Last Altered: Thursday, November 10, 2016 11:34:35 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:36:39 Pacific Standard Time

Name: 161109J3_13.wiff, Date: 09-Nov-2016, Time: 17:21:50, ID: SS161109J3-1 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		7.12e3		1.000		24.5	
33	33	Total PFHxS	79.91		1.20e3		1.000		27.2	
34	34	Total PFOA	368.90		6.89e3		1.000		26.5	
35	35	Total PFOS	79.92		2.53e3		1.000		26.8	

Quantify Totals Report MassLynx 4.1 SCN815
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_13.qld

Last Altered: Thursday, November 10, 2016 11:34:35 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:36:39 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Name: 161109J3_13.wiff, Date: 09-Nov-2016, Time: 17:21:50, ID: SS161109J3-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	79.90	3.44	1.16e4	7.12e3	24.5

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	79.91	4.43	7.05e3	1.20e3	22.5
2	33	Total PFHxS	79.91	4.34	1.11e3	1.20e3	3.52
3	33	Total PFHxS	79.91	4.31	3.69e2	1.20e3	1.13

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	368.90	4.71	1.41e4	6.89e3	22.4
2	34	Total PFOA	368.90	4.62	2.60e3	6.89e3	4.07

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	79.92	5.10	4.45e3	2.53e3	18.8
2	35	Total PFOS	79.92	5.01	9.89e2	2.53e3	4.11
3	35	Total PFOS	79.92	4.98	8.63e2	2.53e3	3.58
4	35	Total PFOS	79.92	4.89	8.79e1	2.53e3	0.279

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_13.qld

Last Altered: Thursday, November 10, 2016 11:34:35 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:36:53 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 10 Nov 2016 11:10:06
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-09-16_L18_A.cdb 10 Nov 2016 11:18:17

Name: 161109J3_13.wiff, Date: 09-Nov-2016, Time: 17:21:50, ID: SS161109J3-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

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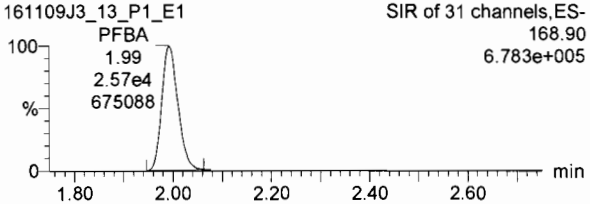

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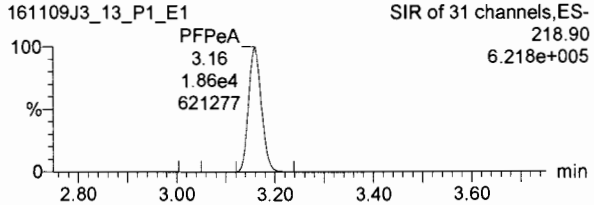

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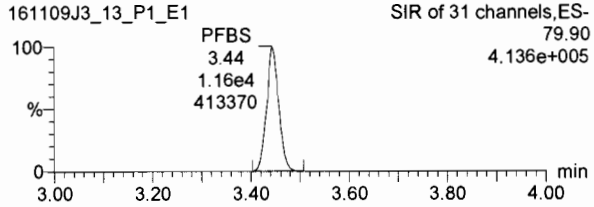

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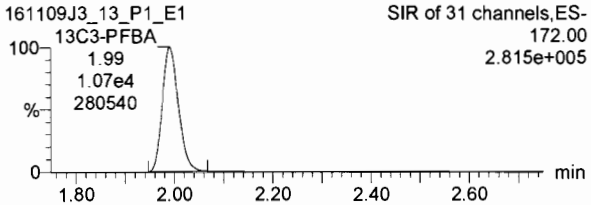
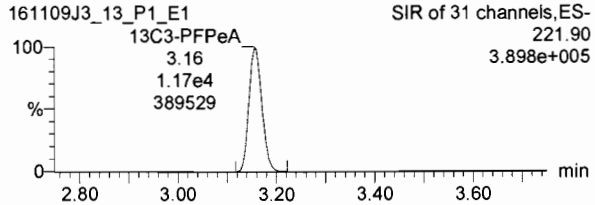


13C3-PFPeA



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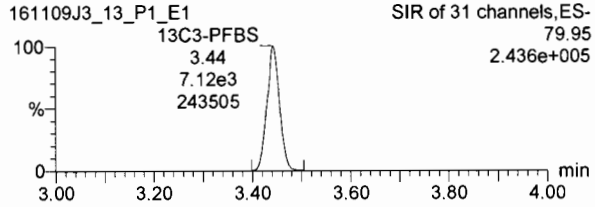
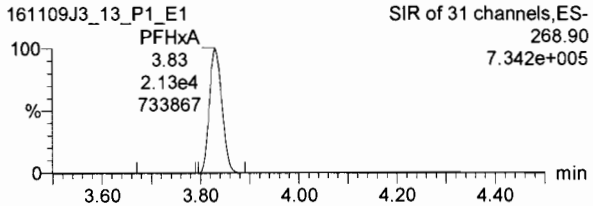
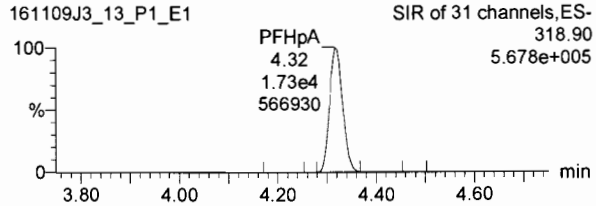


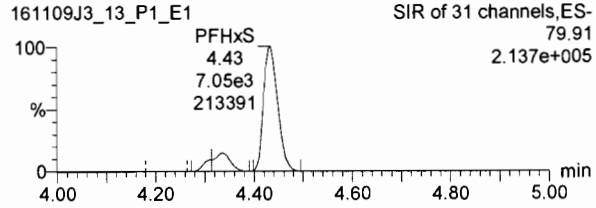
PFHxA



PFHpA



PFHxS



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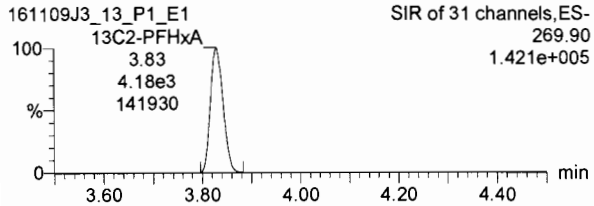
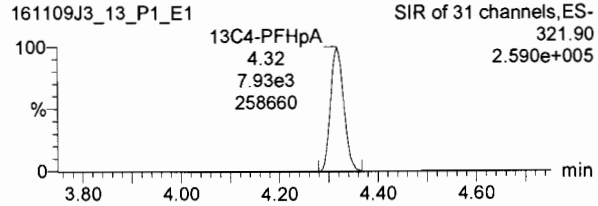
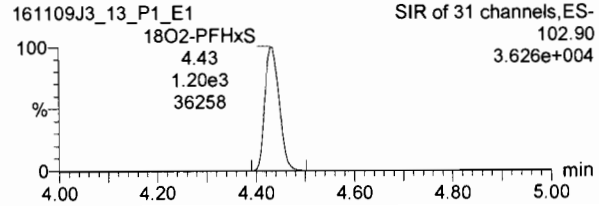


13C4-PFHpA



18O2-PFHxS



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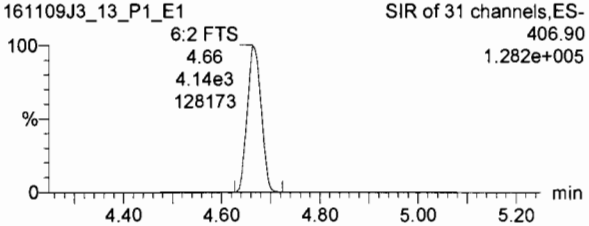
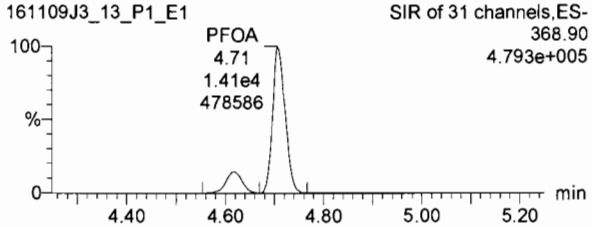
Name: 161109J3_13.wiff, Date: 09-Nov-2016, Time: 17:21:50, ID: SS161109J3-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

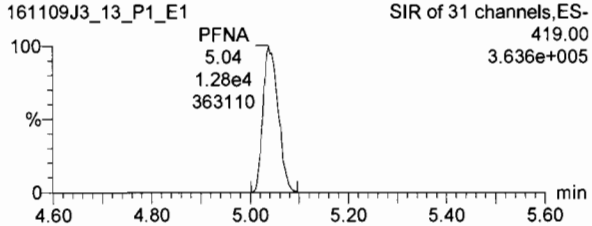
6:2 FTS



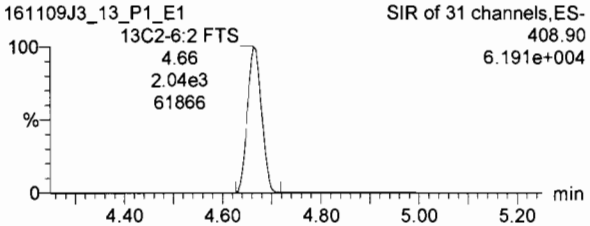
PFOA



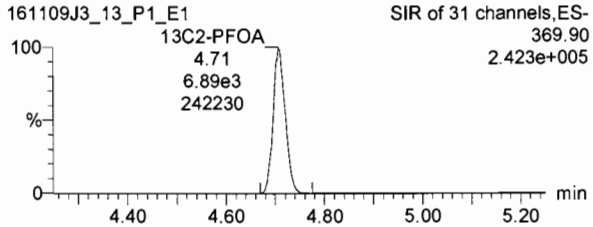
PFNA



13C2-6:2 FTS



13C2-PFOA



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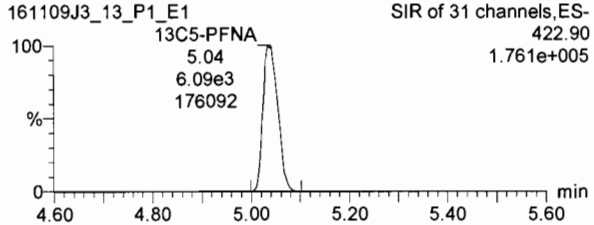
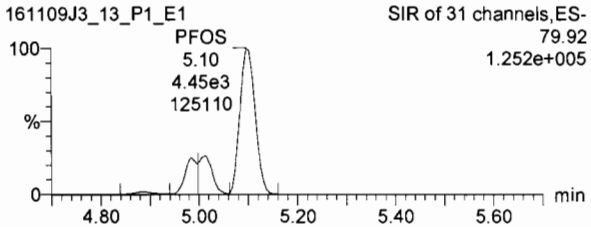
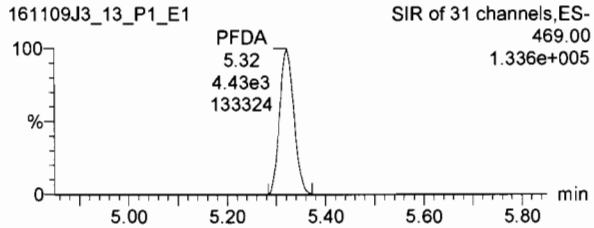


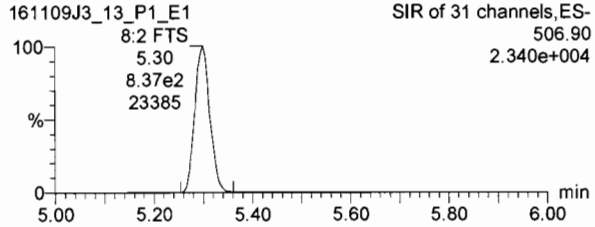
PFOS



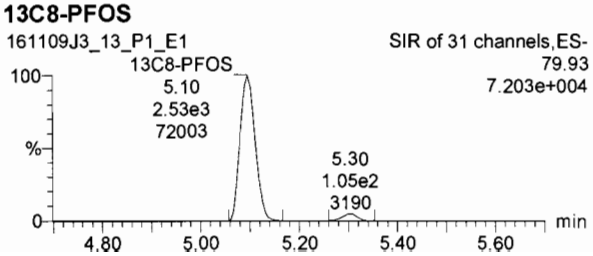
PFDA



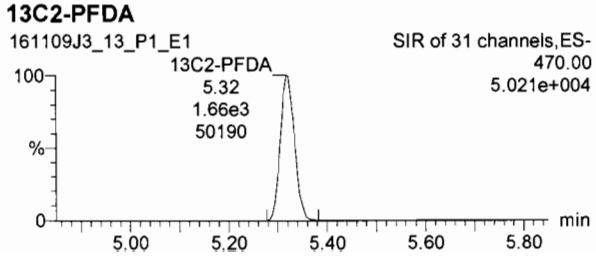
8:2 FTS



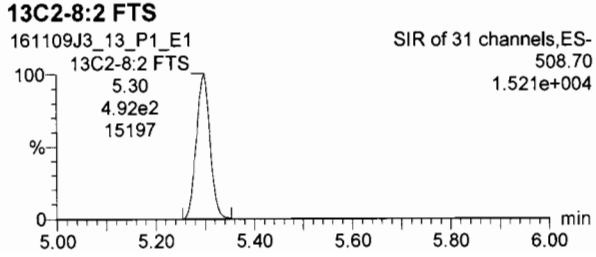
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



TargetLynx - untitled *

File Edit View Display Processing Window Help

161109J3_13_P1_E1 - SS161109J3-1 PFC SSS 16J1810 - PFC SSS 16J1810 A

	Name	Trace	Area	RRF	Wt/Vol	Pred RT	RT	Conc.	>MDL	%Rec	DL
17	13C4-PFHpA	321.90	7.93e3	0.754	1.000	4.30	4.32	11.2	NO	89.6	0.0005435
18	18O2-PFHxS	102.90	1.20e3	0.267	1.000	4.43	4.43	13.1	NO	104.5	0.0000000
19	13C2-6:2 FTS	408.90	2.94e3	0.193	1.000	4.67	4.65	13.5	YES	108.1	0.0035482
20	13C2-PFOA	369.90	6.85e3	0.646	1.000	4.71	4.71	13.7	NO	109.4	0.0025581
21	13C5-PFNA	422.90	6.09e3	0.972	1.000	5.03	5.04	12.8	NO	102.2	5.4995355
22	13C8-PFOS	79.93	2.53e3	0.922	1.000	5.10	5.10	12.9	NO	102.9	0.2892856
23	13C2-PFDA	470.00	1.56e3	0.846	1.000	5.32	5.32	11.7	YES	93.9	0.0032778
24	13C2-8:2 FTS	508.70	4.92e2	0.257	1.000	5.28	5.30	11.5	YES	92.1	0.0073964
25	13C4-PFBA	171.90	1.22e4	1.00	1.000	2.03	1.99	12.5	YES	100.0	0.0051454
26	13C5-PFHxA	273.00	1.17e4	1.00	1.000	3.63	3.63	12.5	NO	100.0	0.0004826
27	13C3-PFHxS	80.01	4.30e3	1.00	1.000	4.43	4.43	12.5	NO	100.0	0.0012372
28	13C8-PFOA	375.90	9.76e3	1.00	1.000	4.71	4.71	12.5	NO	100.0	0.0599751
29	13C4-PFOS	79.94	2.66e3	1.00	1.000	5.15	5.19	12.5	NO	100.0	0.0029449
30	13C9-PFNA	427.00	6.13e3	1.00	1.000	5.15	5.03	12.5	NO	100.0	2.8305485
31	13C6-PFDA	474.00	2.08e3	1.00	1.000	5.33	5.32	12.5	YES	100.0	0.0030138
32	Total PFBS	79.90	1.16e4		1.000	3.59		24.5	NO		
33	Total PFHxS	79.91	8.53e3		1.000	4.66		27.2	NO		
34	Total PFOA	368.90	1.67e4		1.000	4.82		26.5	NO		
35	Total PFOS	79.92	6.38e3		1.000	5.27		26.8	NO		

	Name	RT	m1 Resp.	Resp.	Conc.
1	PFOS	5.10	4450	4450	18.830
2	Total PFOS	5.01	989	989	4.1141
3	Total PFOS	4.98	863	863	3.5765

Chromatogram

161109J3_13_P1_E1 Smooth(Mn,1x2)
PFC SSS 16J1810 A SS161109J3-1 PFC SSS 16J1810

SIR of 31 channels ES-
79.92
9.973e+003

Total PFOS
4.89
87.92
8.79e1
2105
bd
8.93

161109J3_13_P1_E1 Smooth(Mn,1x2)
PFC SSS 16J1810 A SS161109J3-1 PFC SSS 16J1810

SIR of 31 channels ES-
79.93
7.203e+004

13C8-PFOS:5.10:2525.82:2.53e3:72003,bb,112.66

5.30

Custom Reporting: Select reports to generate

161109J3_13_P1_E1

NUM

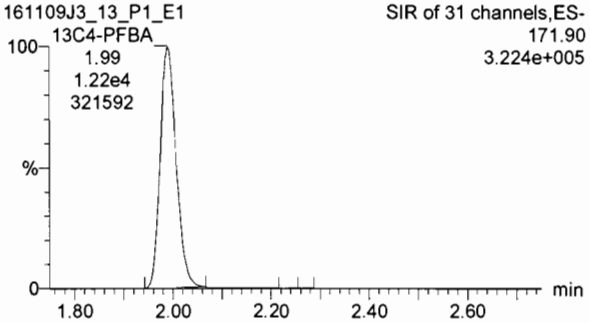
Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161109J3\161109J3_13.qld

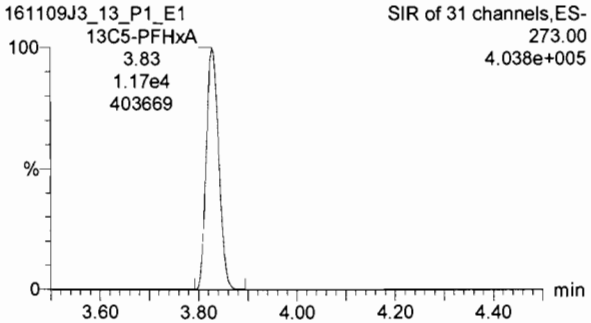
Last Altered: Thursday, November 10, 2016 11:34:35 Pacific Standard Time
Printed: Thursday, November 10, 2016 11:36:53 Pacific Standard Time

Name: 161109J3_13.wiff, Date: 09-Nov-2016, Time: 17:21:50, ID: SS161109J3-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

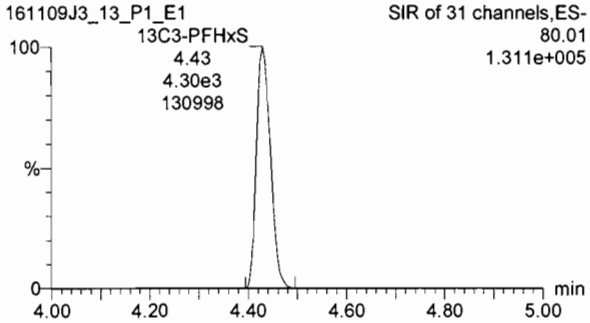
13C4-PFBA



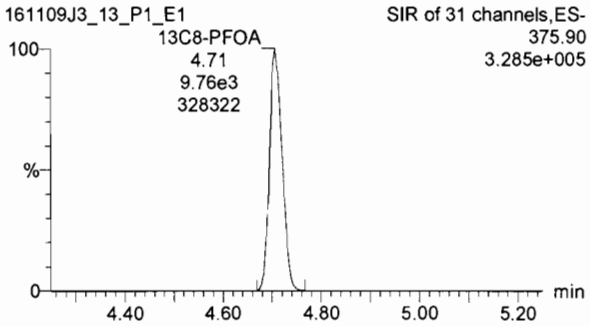
13C5-PFHxA



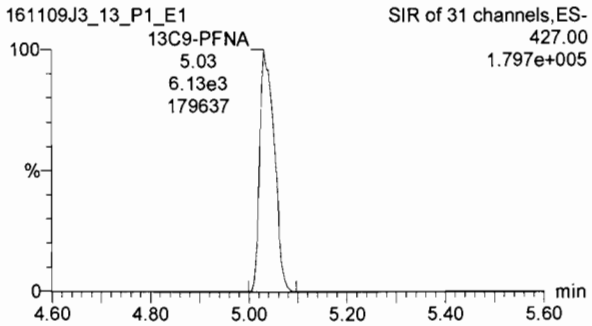
13C3-PFHxS



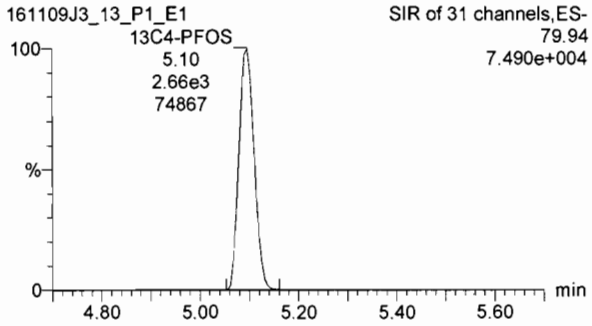
13C8-PFOA



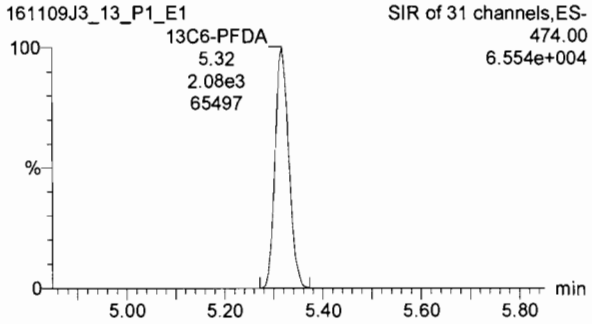
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Compound Summary Report **MassLynx 4.1 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
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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

Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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		

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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		

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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

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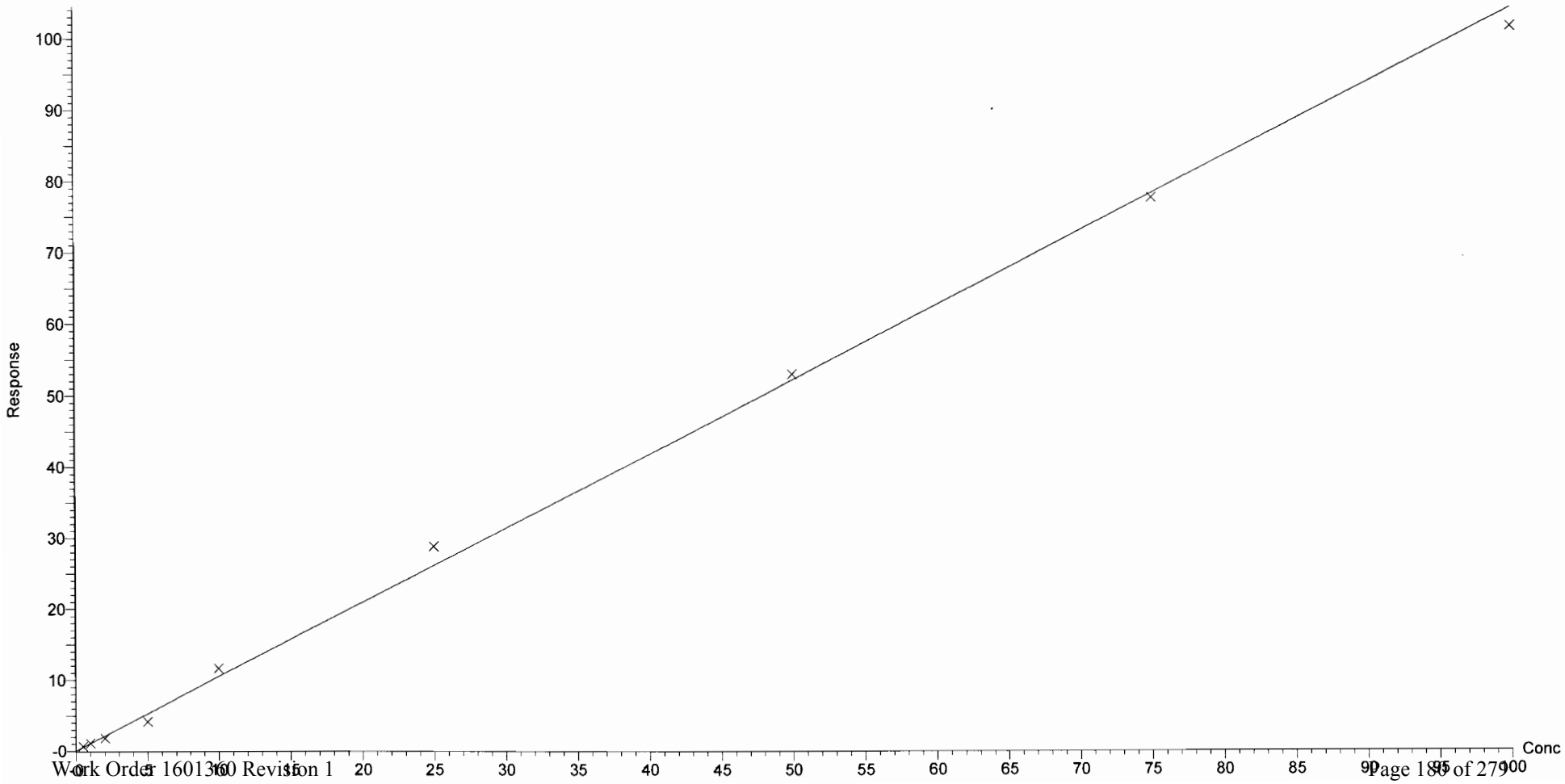
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

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



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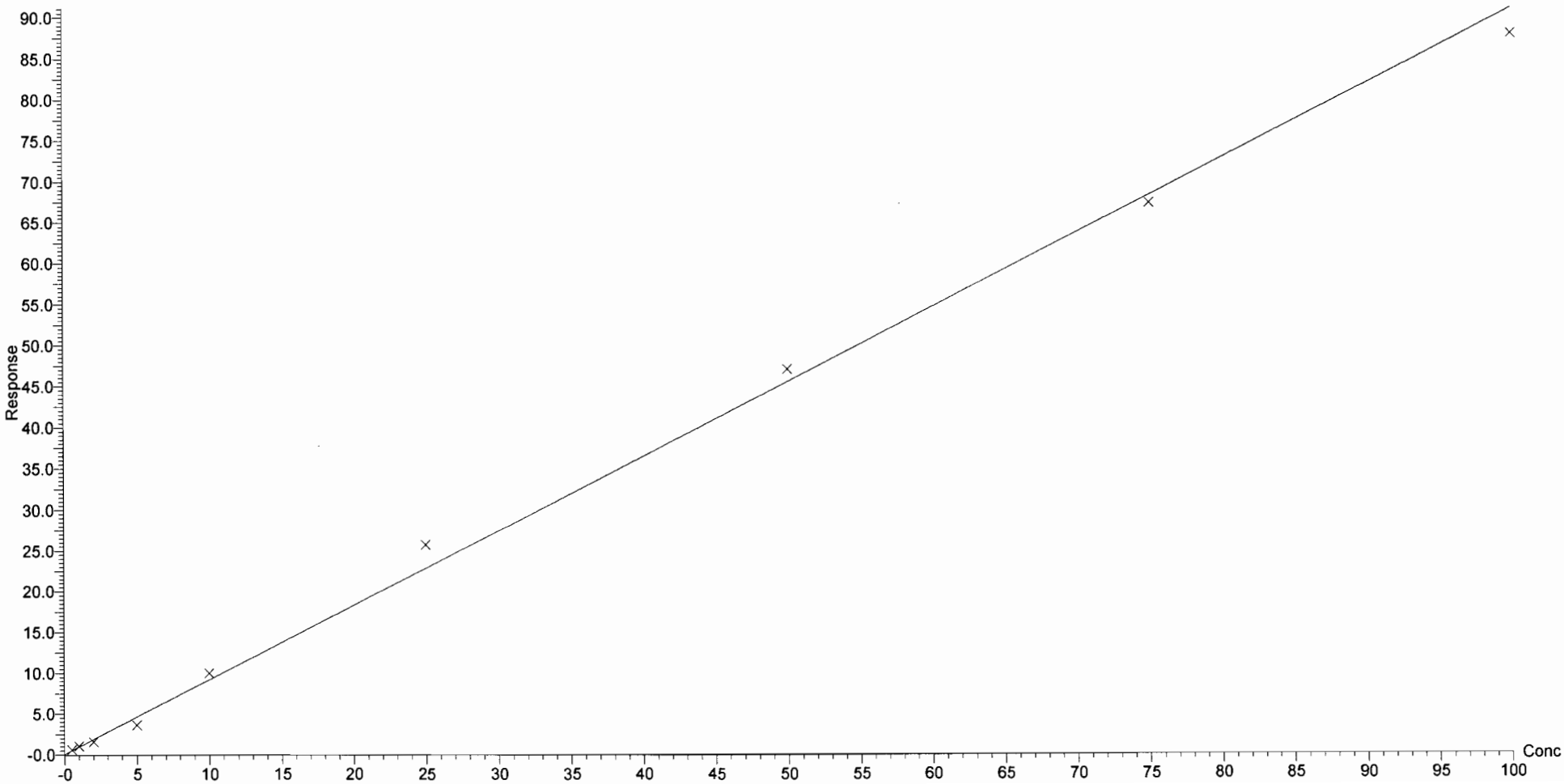
Compound name: PFPeA
Correlation coefficient: r = 0.998036, r^2 = 0.996076
Calibration curve: 0.910461 * x + 0.0566694
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

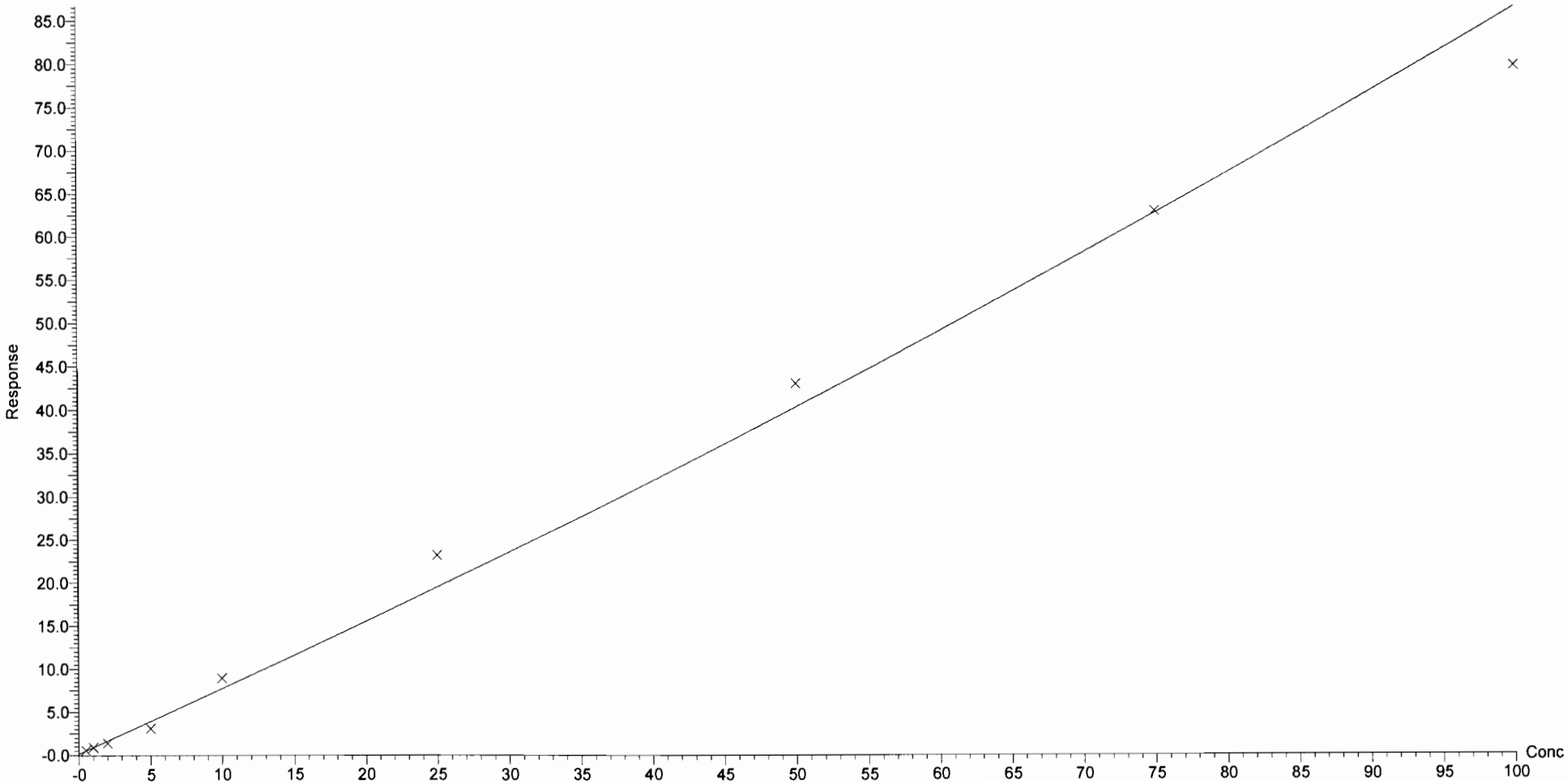


Vista Analytical Laboratory Q1

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

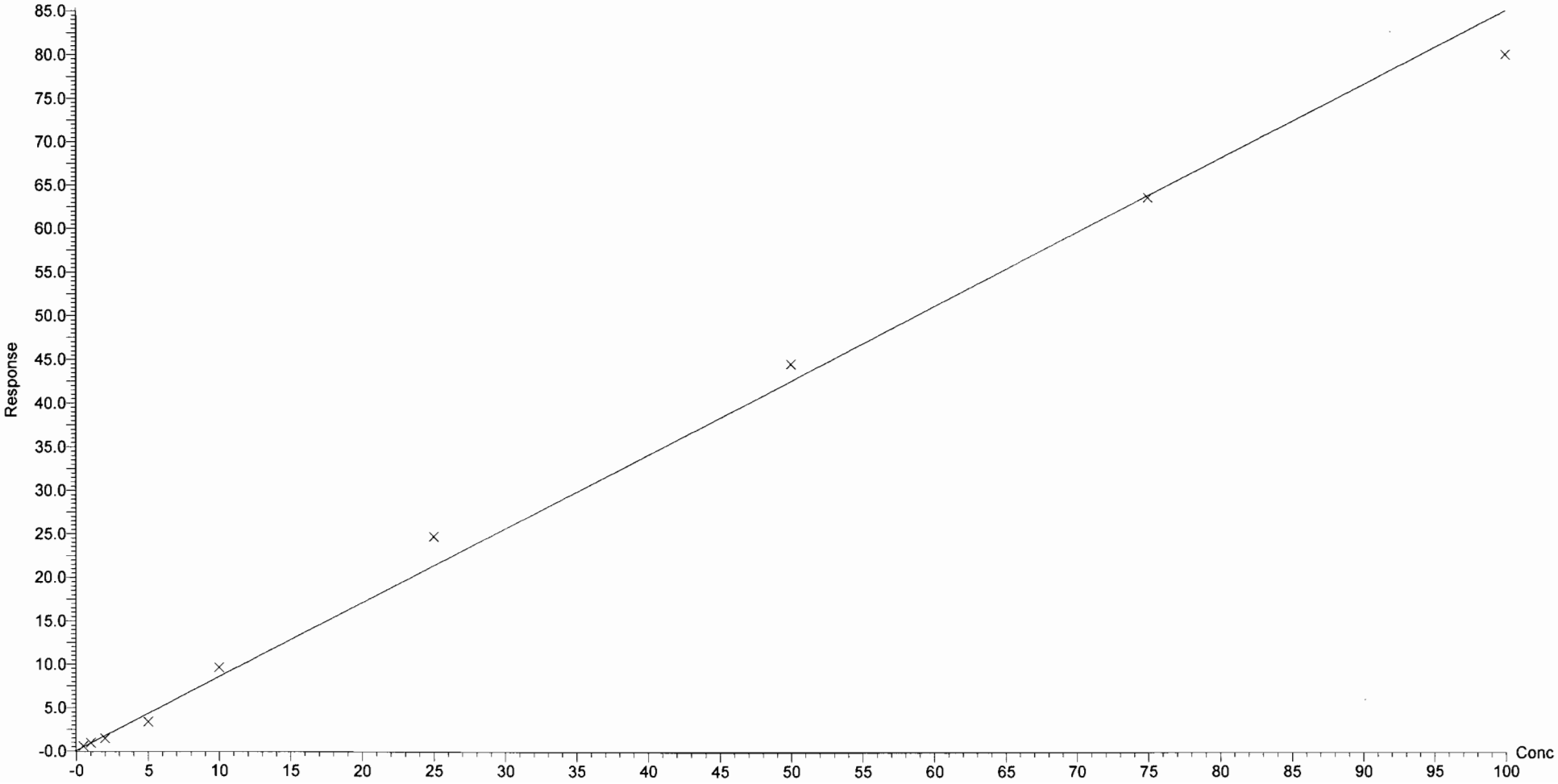
Compound name: PFBS
Coefficient of Determination: R^2 = 0.977505
Calibration curve: 0.00122129 * x^2 + 0.743308 * x + 0.145497
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None



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

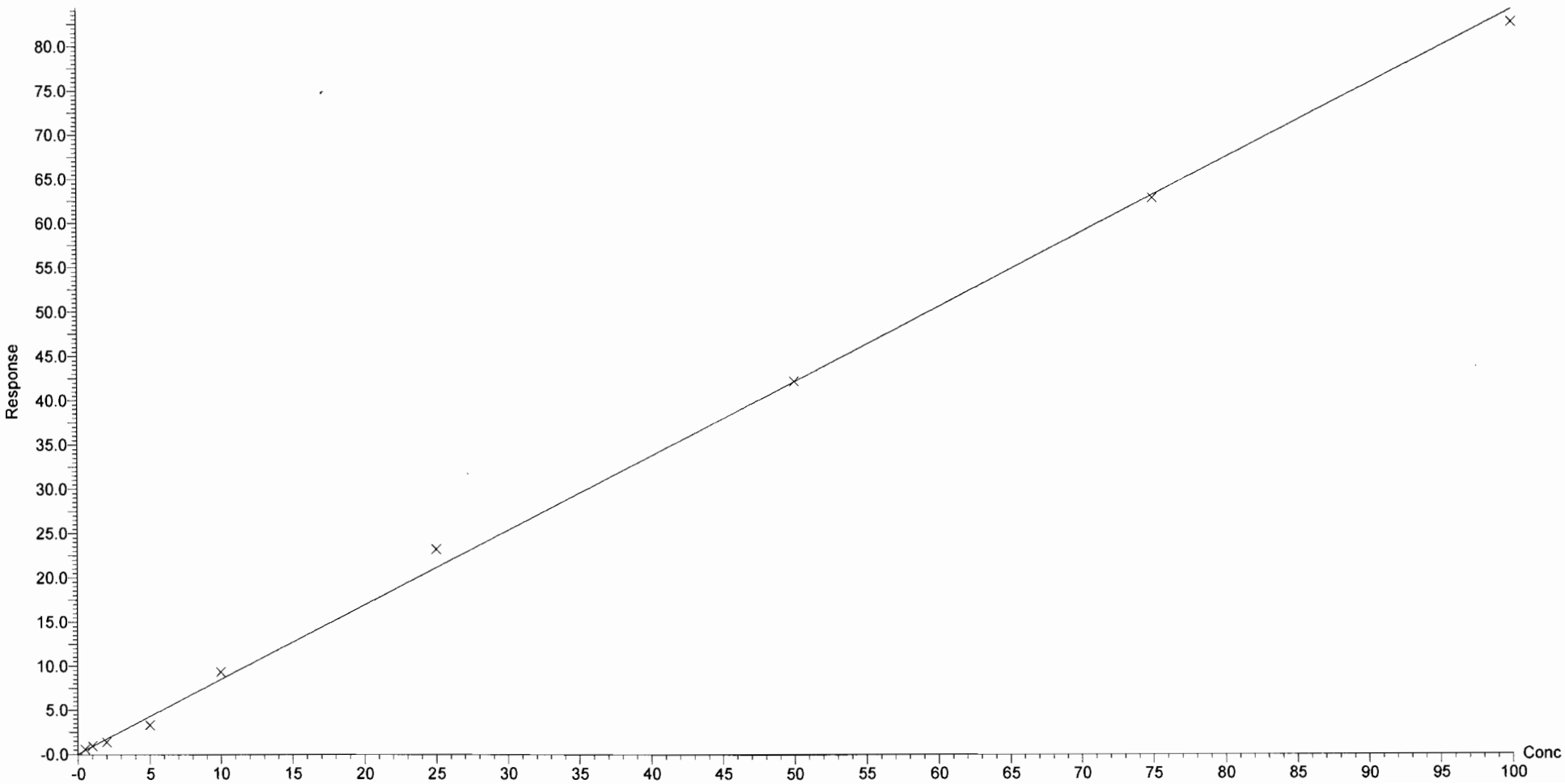
Compound name: PFHxA
Correlation coefficient: r = 0.996921, r^2 = 0.993852
Calibration curve: 0.852369 * x + 0.067677
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



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

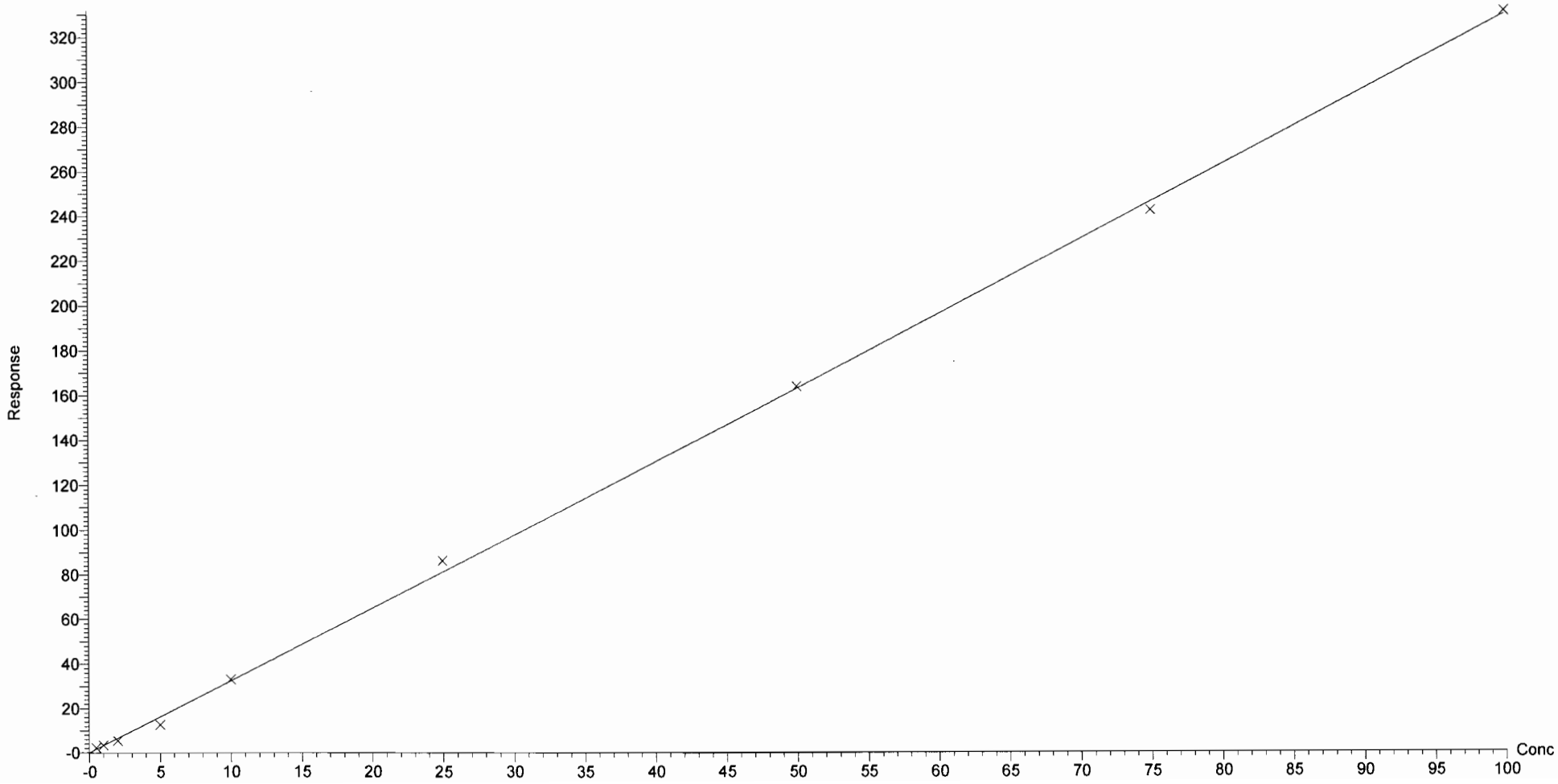


Vista Analytical Laboratory Q1

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

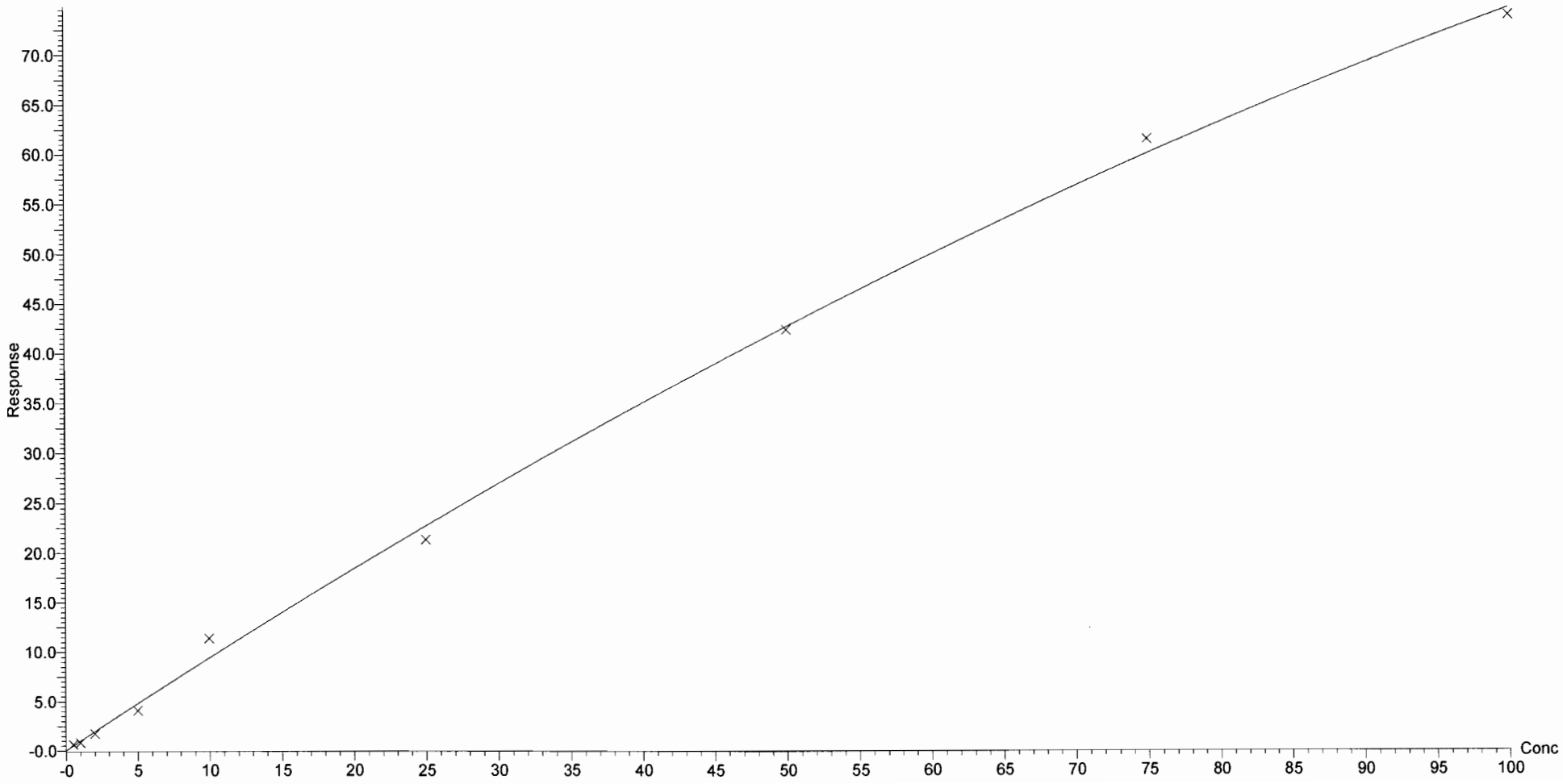
Compound name: PFHxS
Coefficient of Determination: R^2 = 0.998167
Calibration curve: 0.00081896 * x^2 + 3.22284 * x + 0.0419742
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

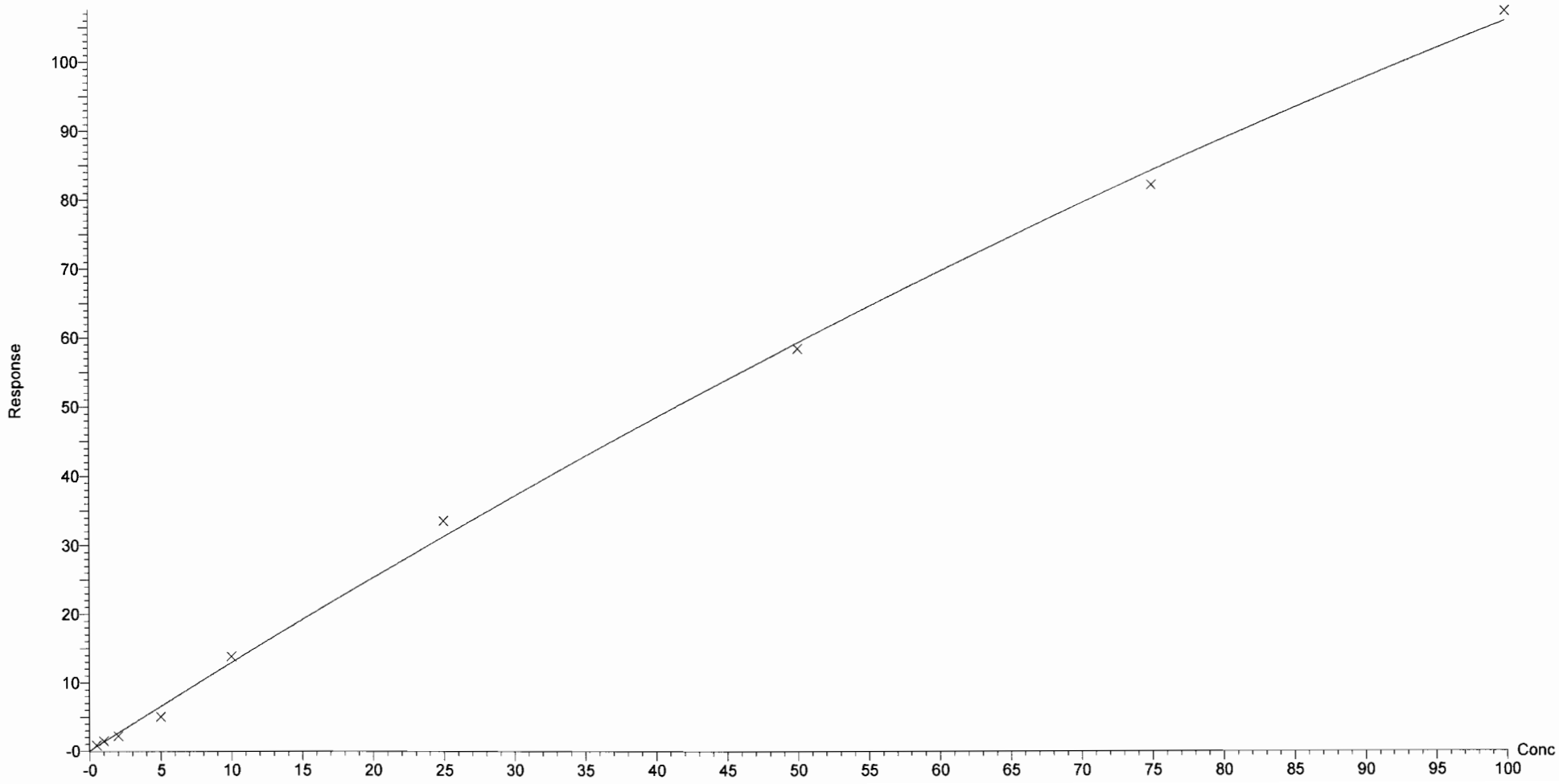
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.995743
Calibration curve: -0.00213642 * x^2 + 0.961467 * x + 0.0440674
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

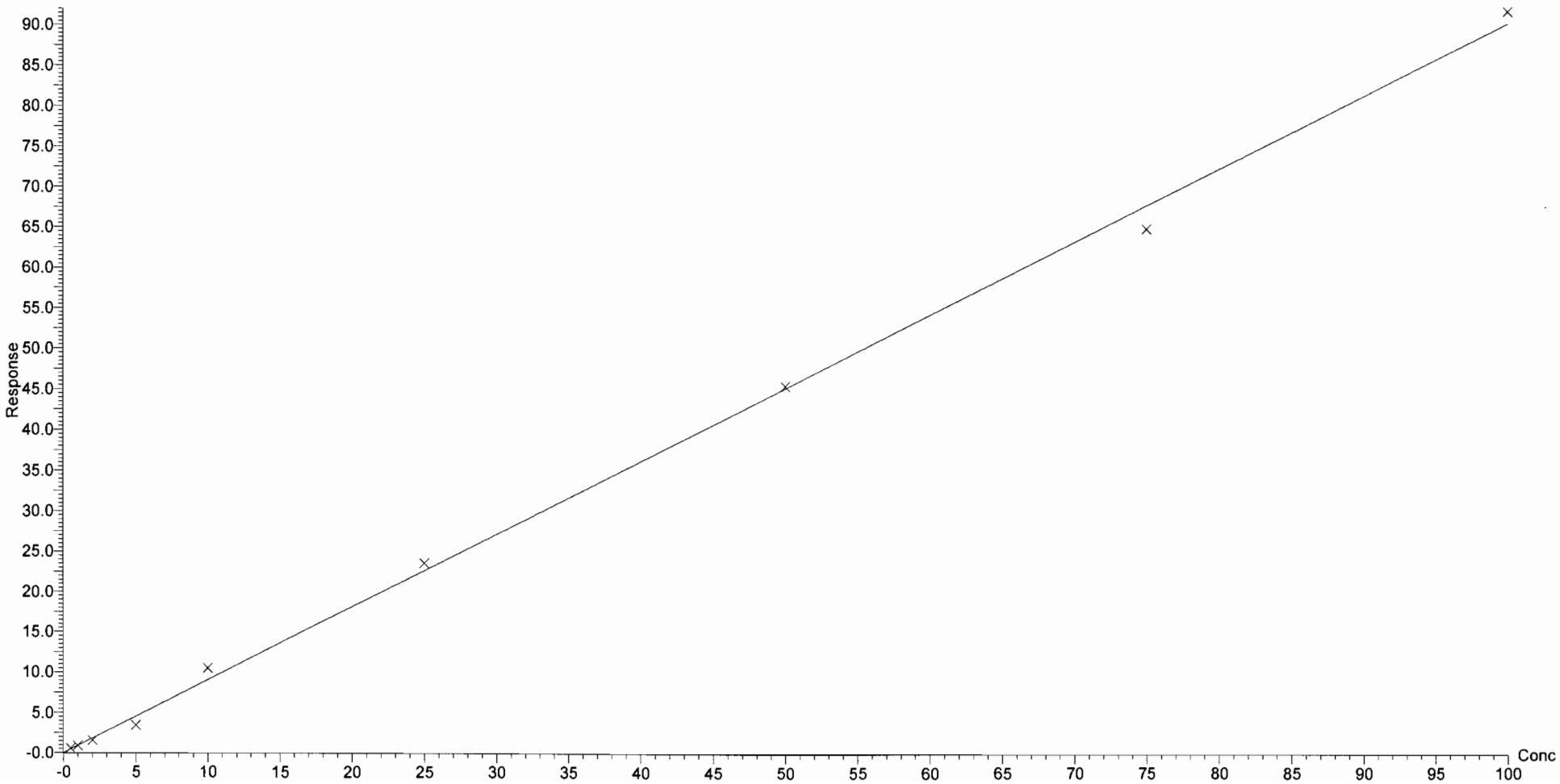
Compound name: PFOA
Coefficient of Determination: R^2 = 0.996931
Calibration curve: -0.0025112 * x^2 + 1.31194 * x + 0.0471482
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



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

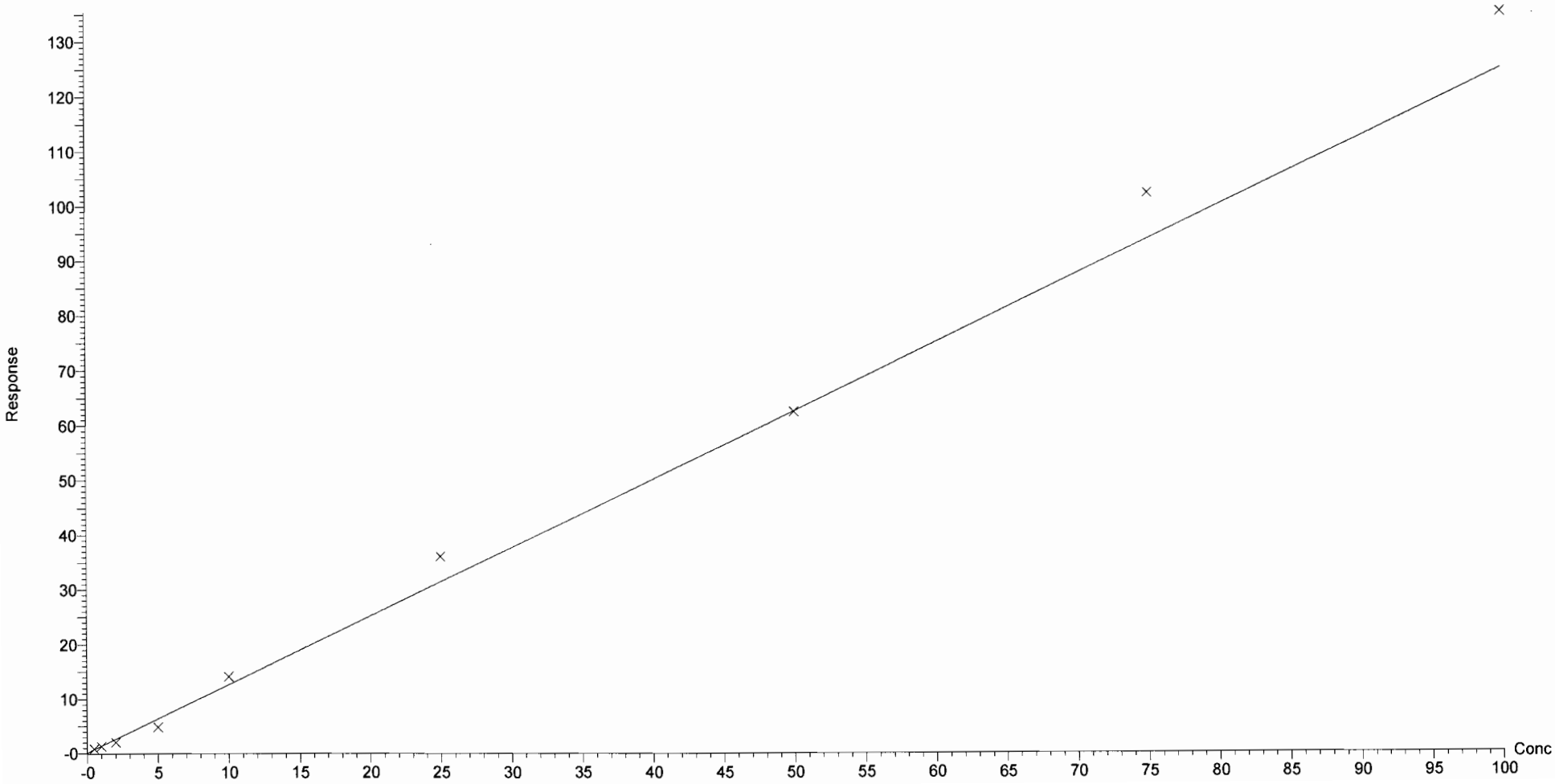
Compound name: PFNA
Correlation coefficient: r = 0.998382, r^2 = 0.996768
Calibration curve: 0.905077 * x + 0.00552082
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



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

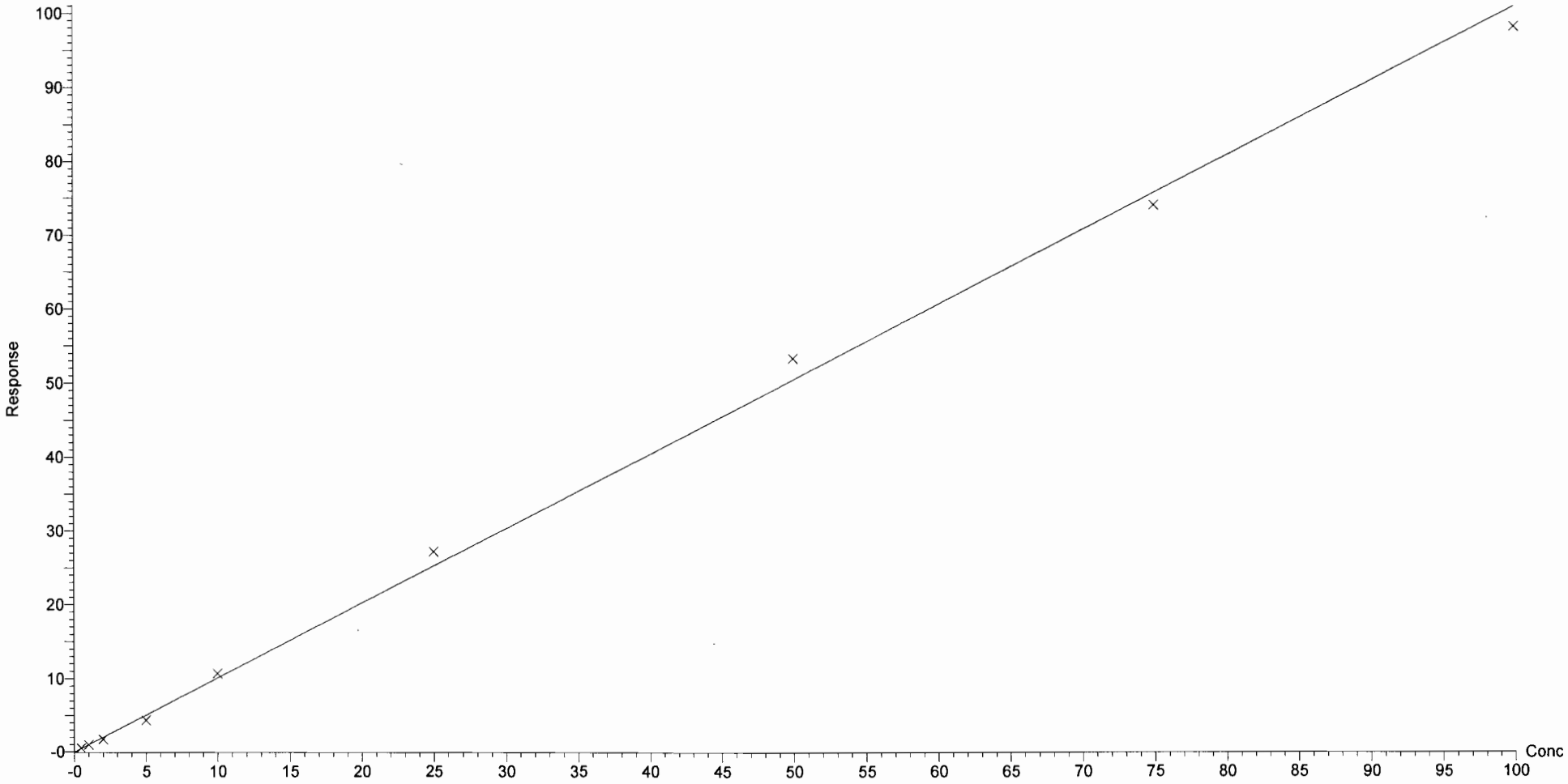
Compound name: PFOS
Correlation coefficient: r = 0.985935, r^2 = 0.972067
Calibration curve: 1.25111 * x + 0.123067
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x^2, Axis trans: None



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

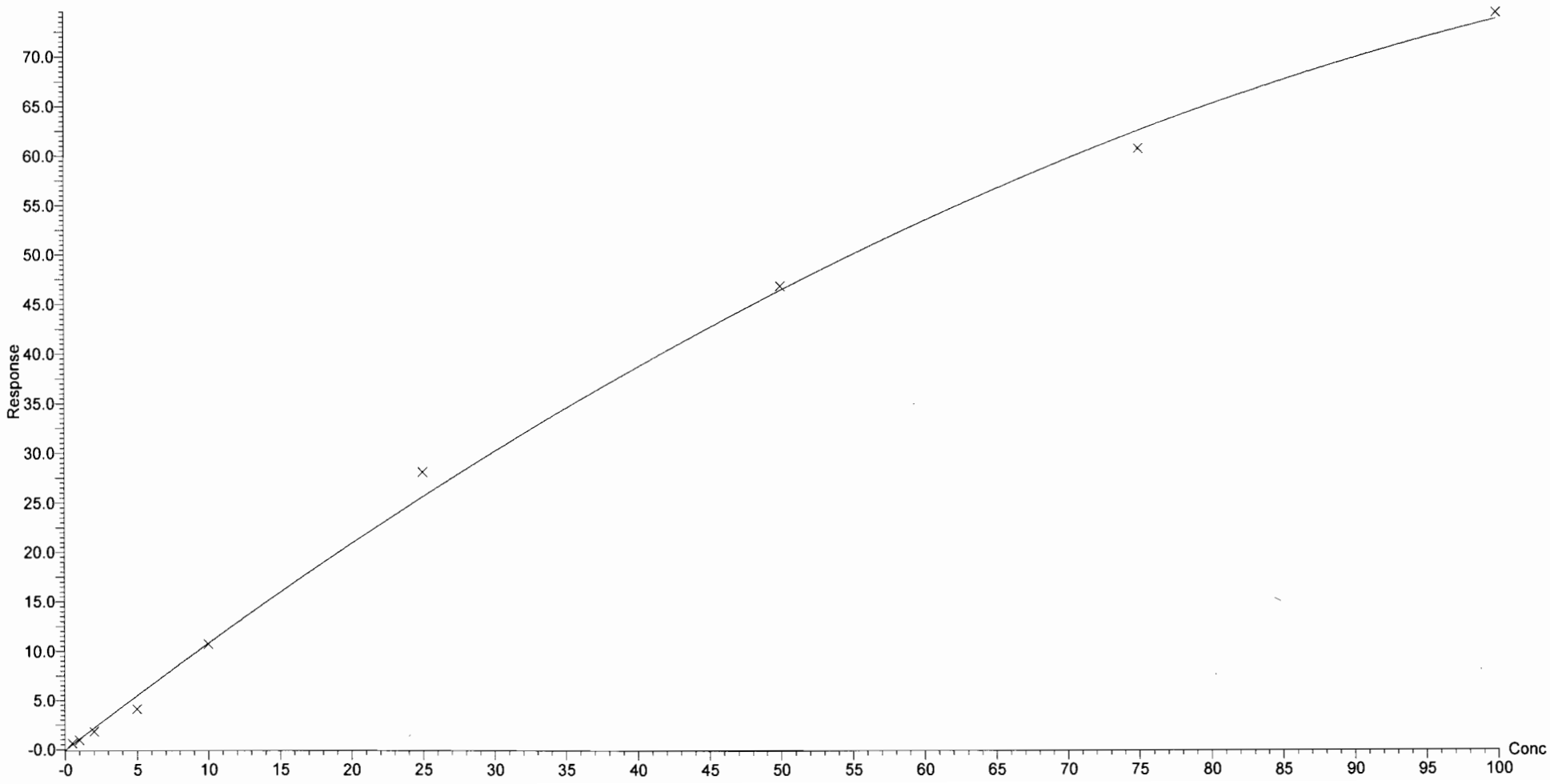
Compound name: PFDA
Correlation coefficient: r = 0.998849, r^2 = 0.997699
Calibration curve: 1.01138 * x + -0.0247569
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



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
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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
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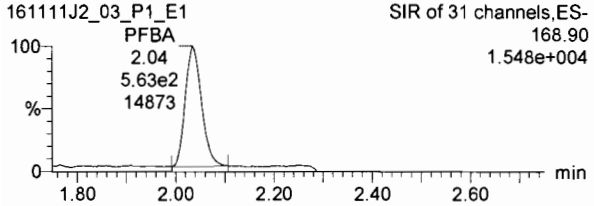
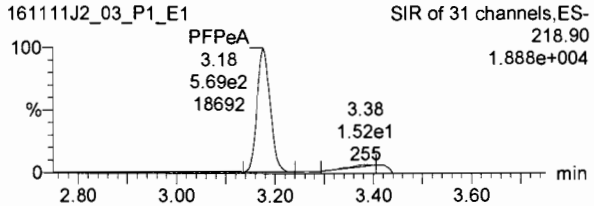
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

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

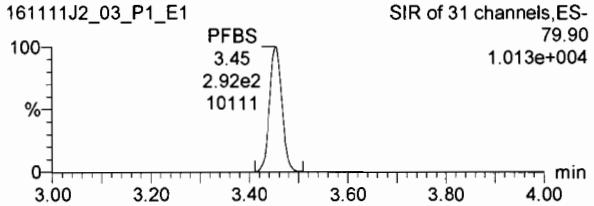
PFBA



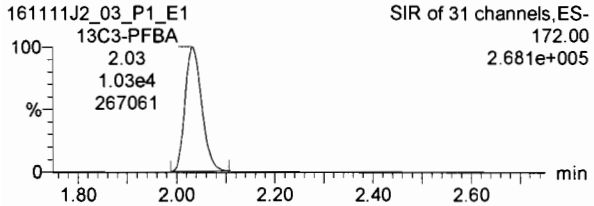
PFPeA



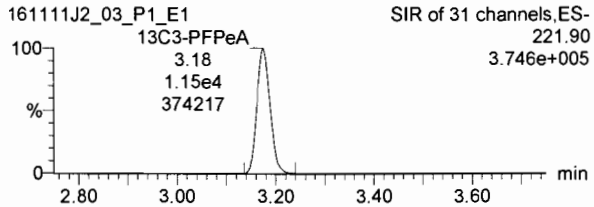
PFBS



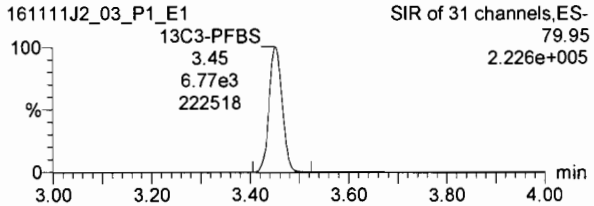
13C3-PFBA



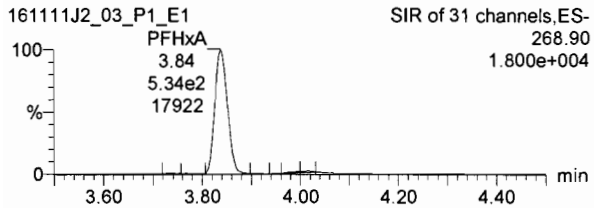
13C3-PFPeA



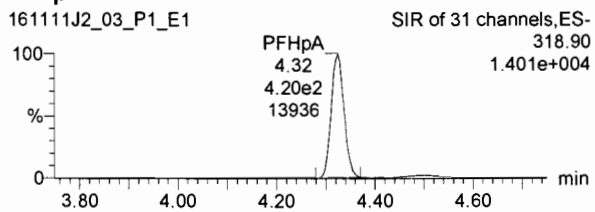
13C3-PFBS



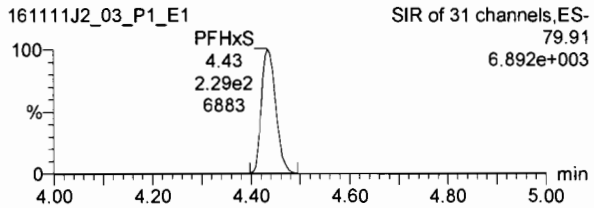
PFHxA



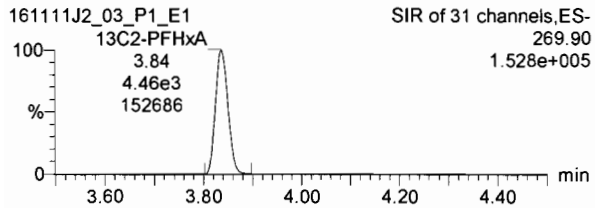
PFHpA



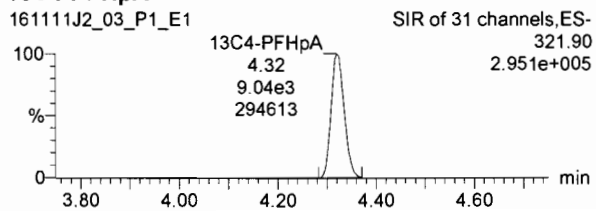
PFHxS



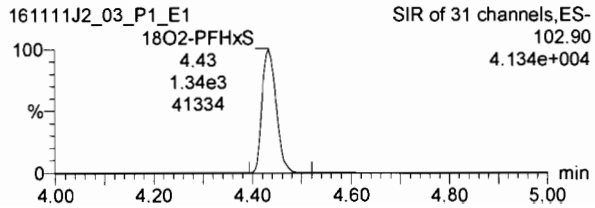
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

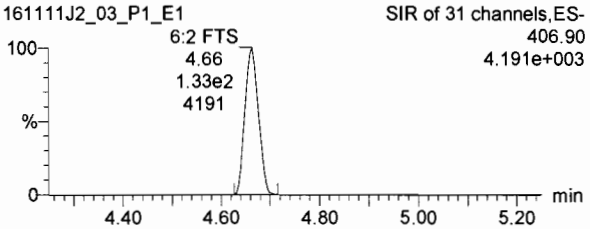


Dataset: U:\Q2.PRO\Results\161112J2\161111J2crv.qld

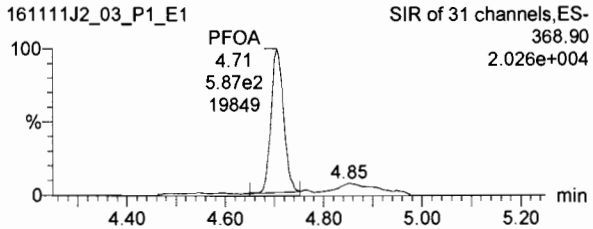
Last Altered: Saturday, November 12, 2016 10:51:18 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

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

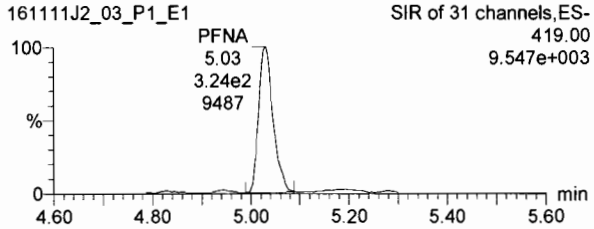
6:2 FTS



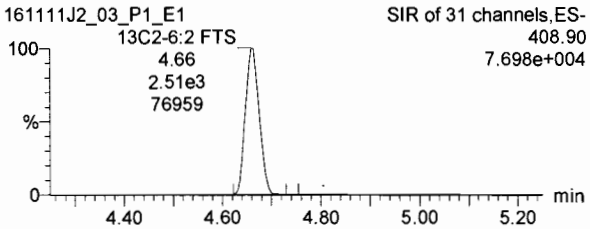
PFOA



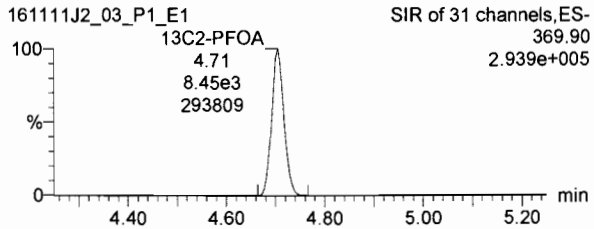
PFNA



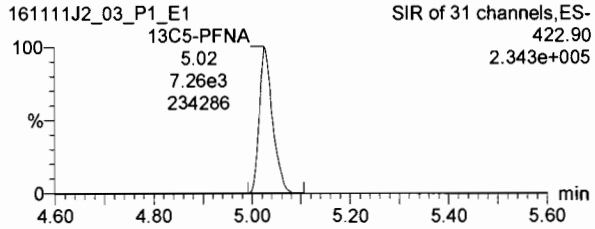
13C2-6:2 FTS



13C2-PFOA



13C5-PFNA



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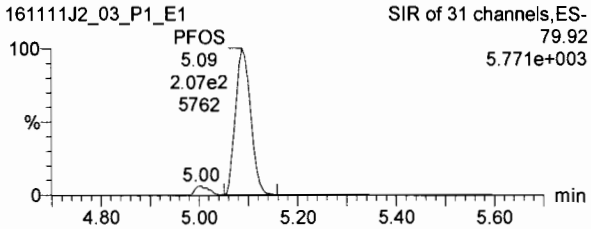

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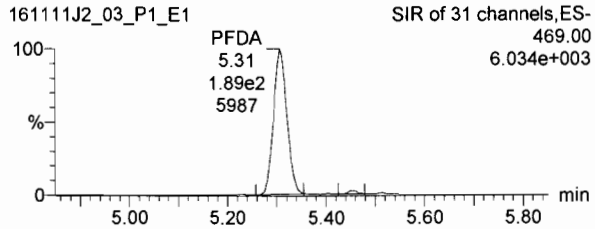

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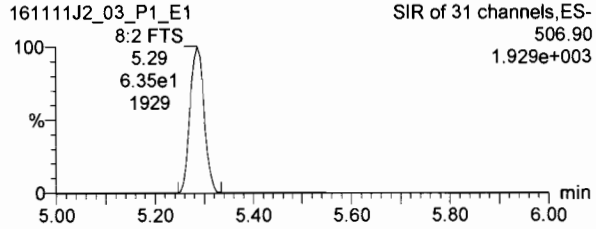

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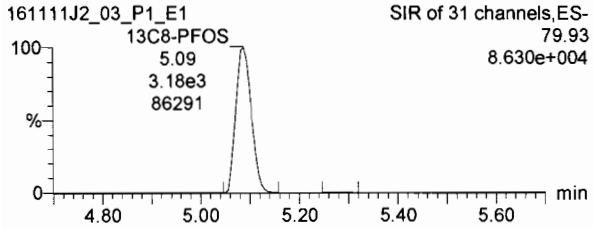

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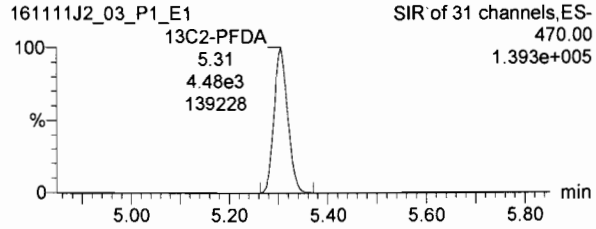

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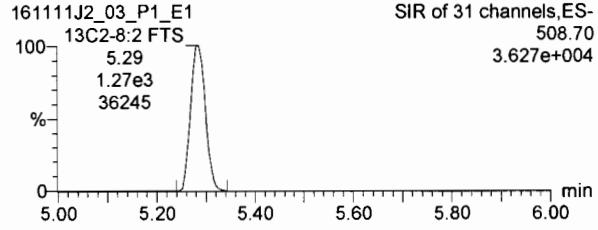

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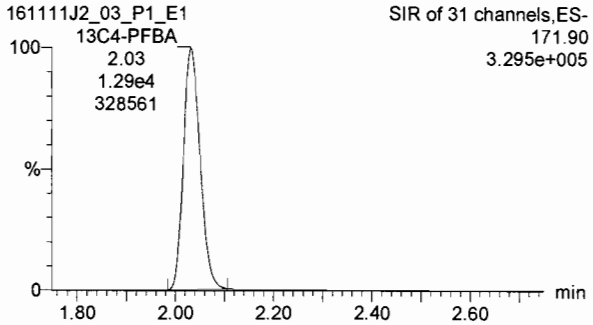
Name: 161111J2_03.wiff, Date: 11-Nov-2016, Time: 16:51:46, ID: ST161111J2-2 PFC CS(-1) 16K1115, Description: PFC CS(-1) 16K1115 A

13C4-PFBA



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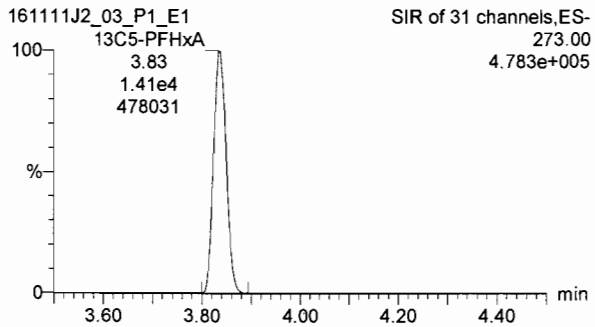

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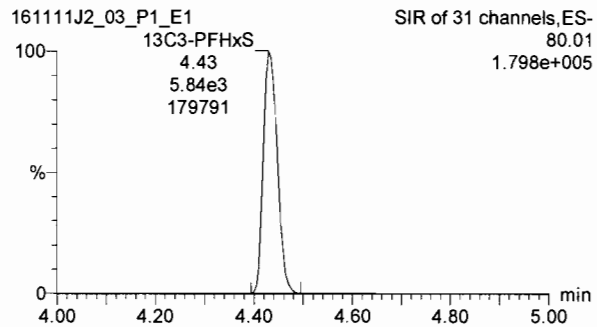

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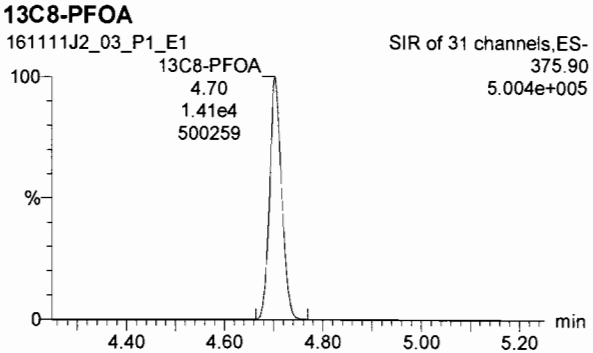

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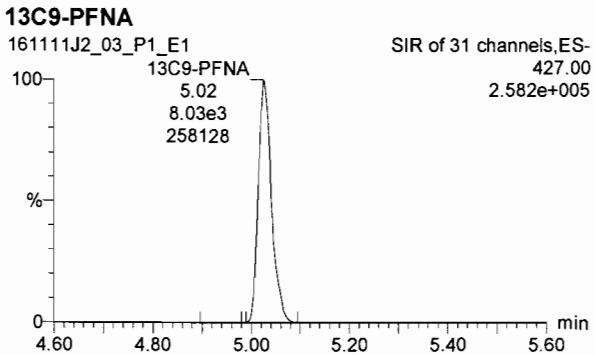

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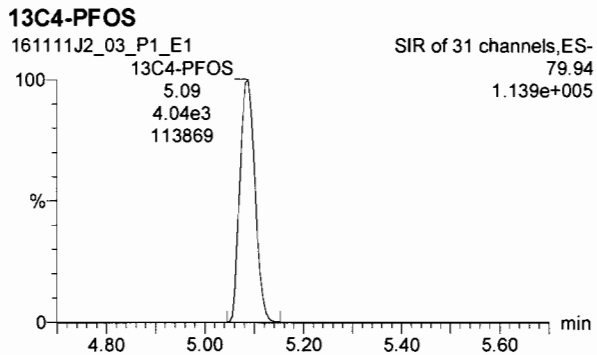

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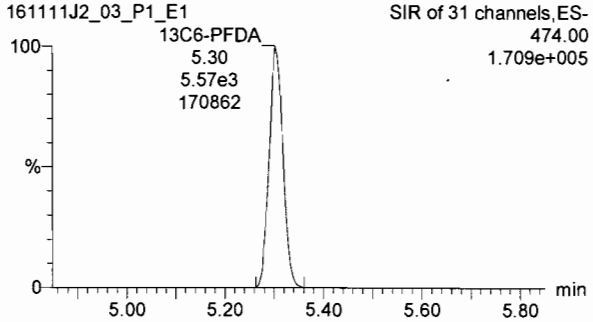

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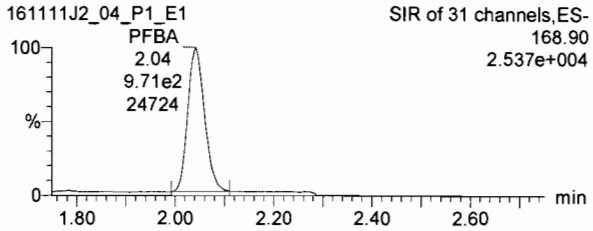

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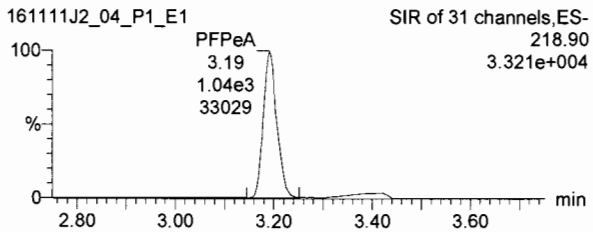

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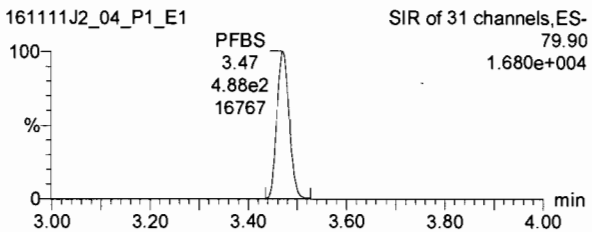

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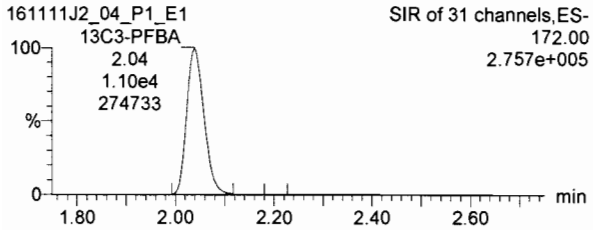

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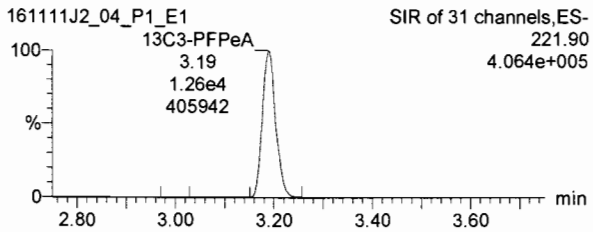

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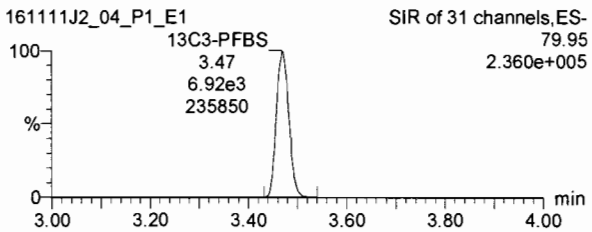

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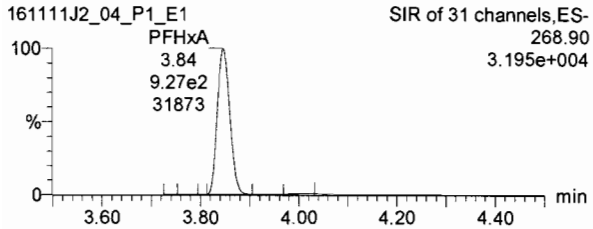

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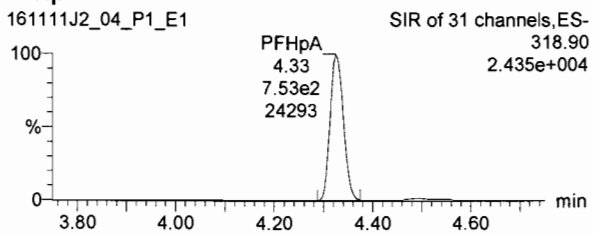

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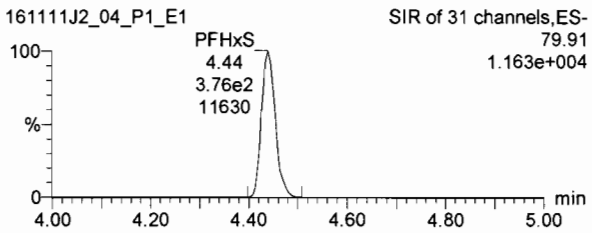

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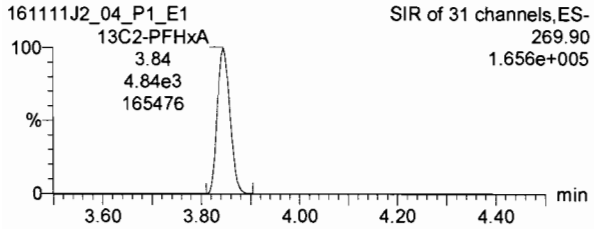

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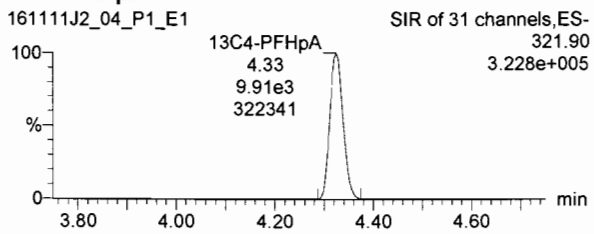

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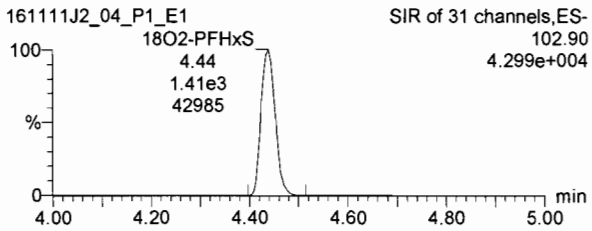

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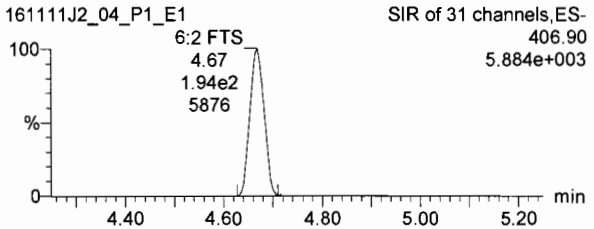
6:2 FTS



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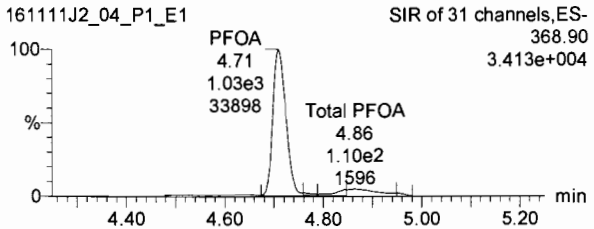

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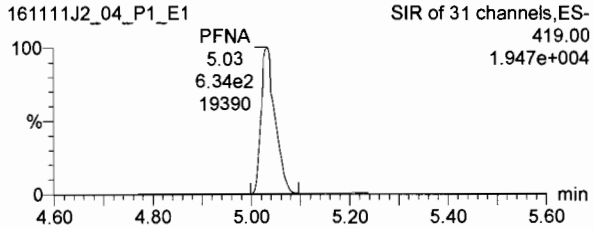

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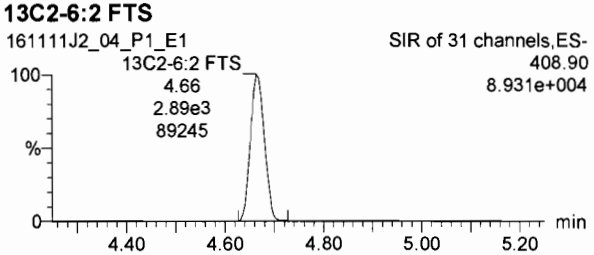

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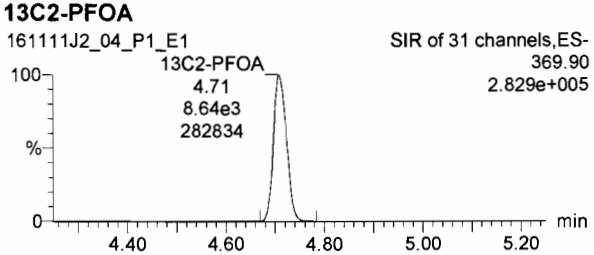

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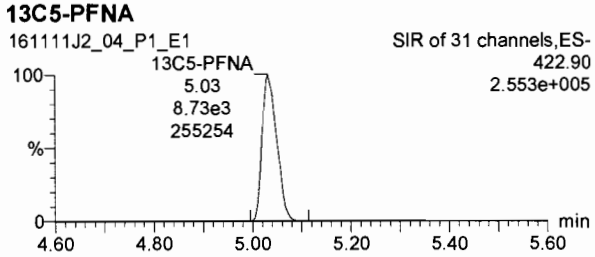

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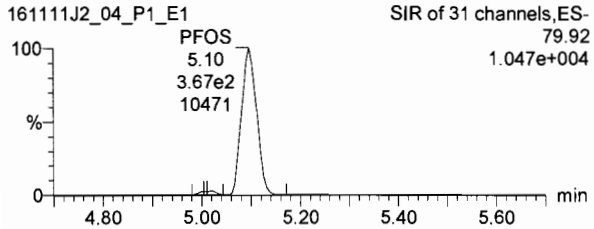

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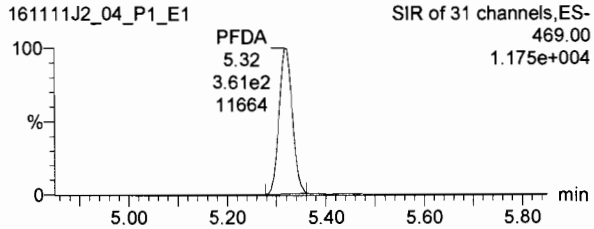

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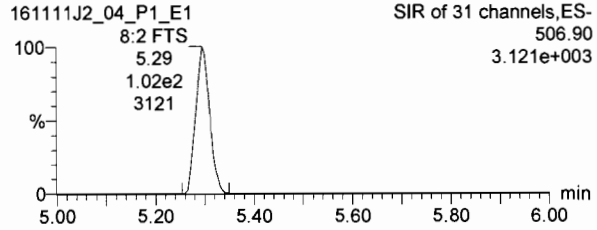

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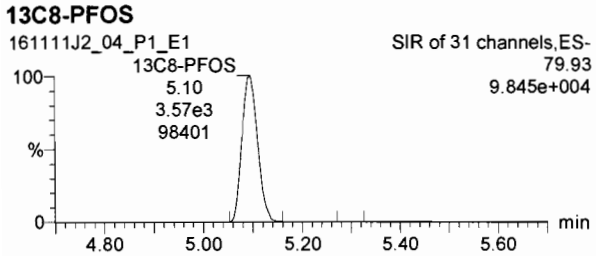

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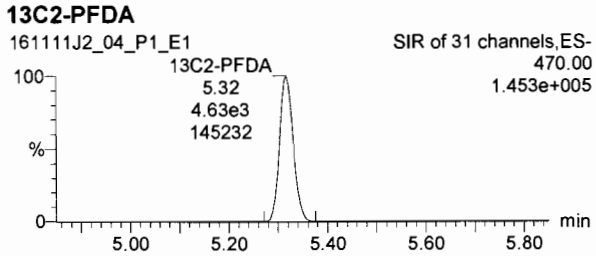
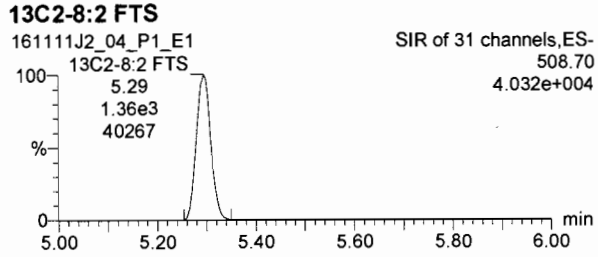


13C2-8:2 FTS



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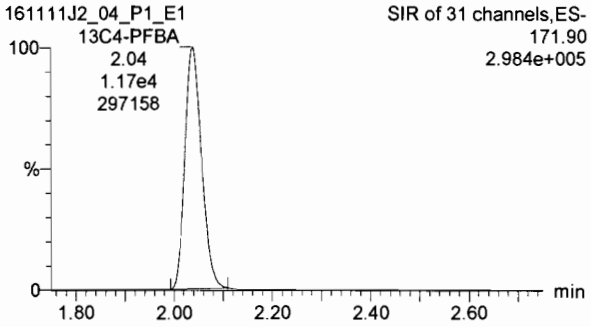
13C4-PFBA



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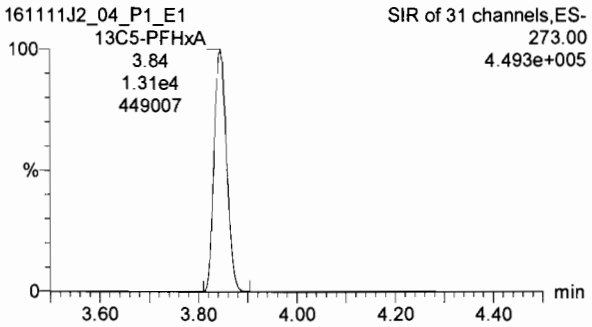

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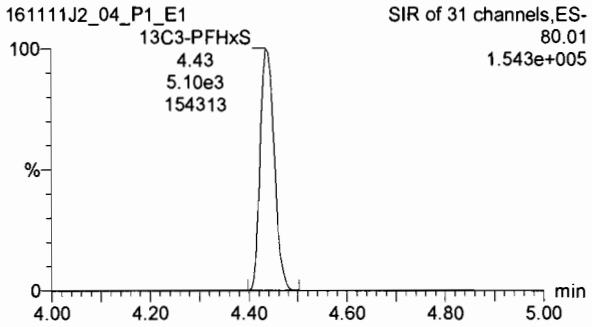

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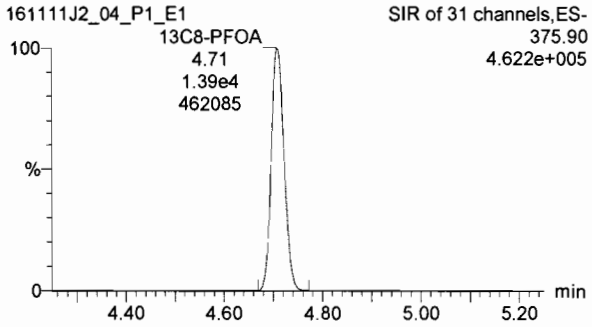

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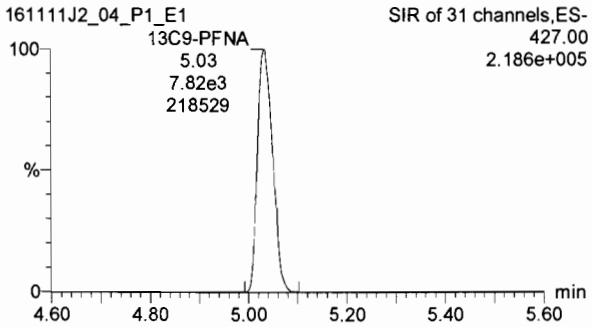

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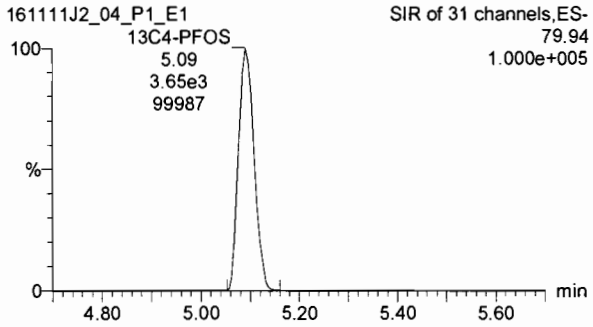

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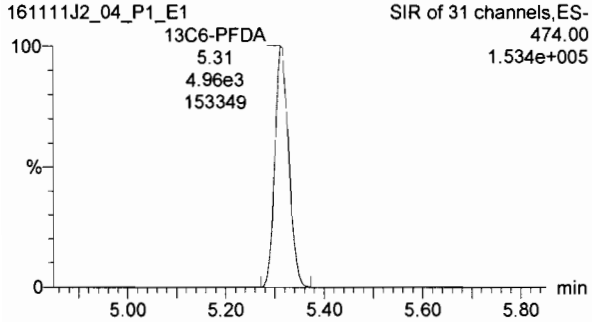

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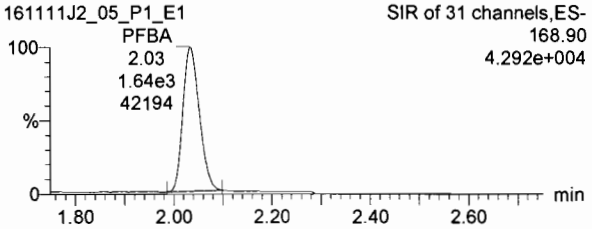
PFBA



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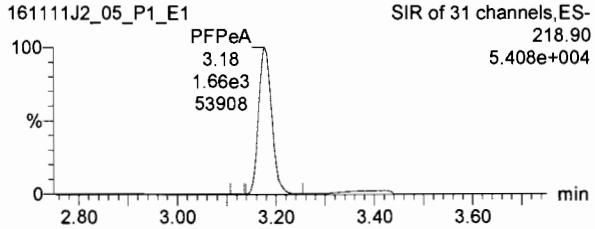

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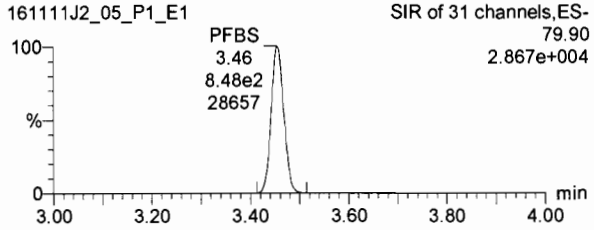

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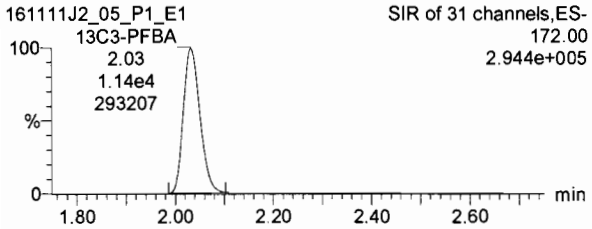

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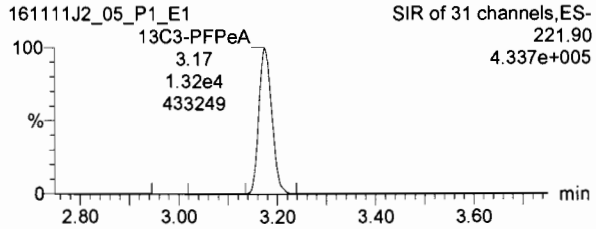

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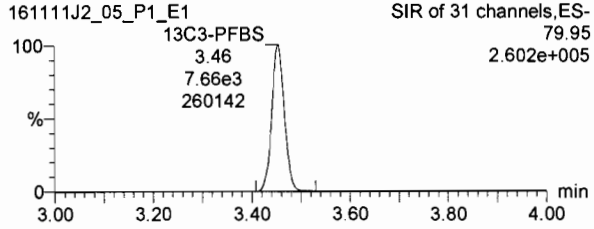

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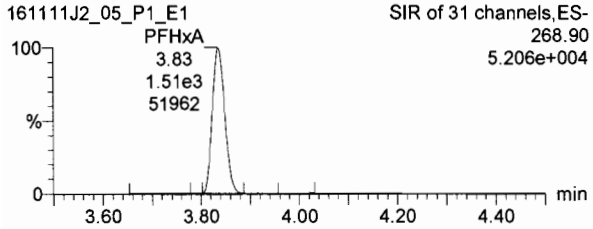

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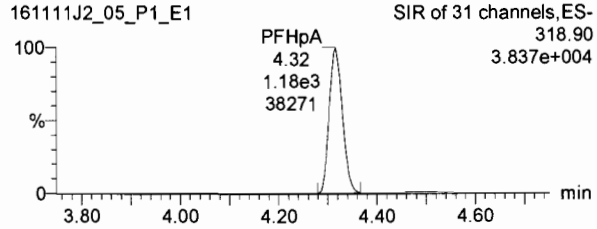

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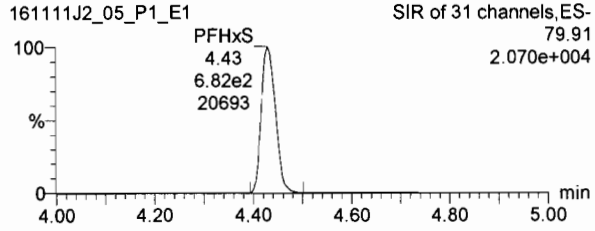

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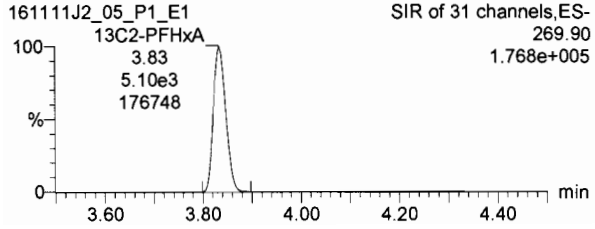

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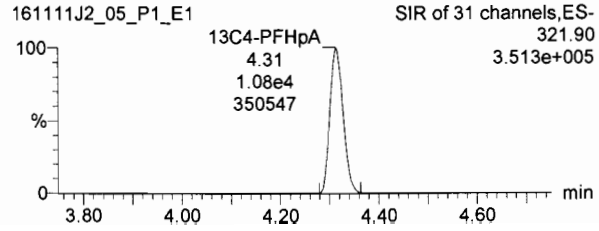
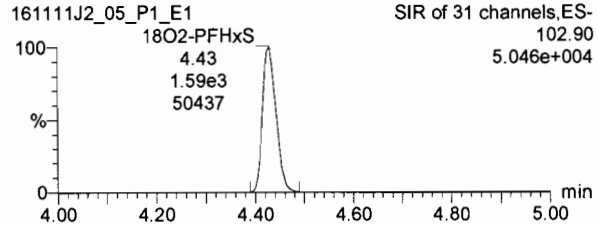


18O2-PFHxS



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Name: 161111J2_05.wiff, Date: 11-Nov-2016, Time: 17:16:11, ID: ST161111J2-4 PFC CS1 16K1117, Description: PFC CS1 16K1117 A

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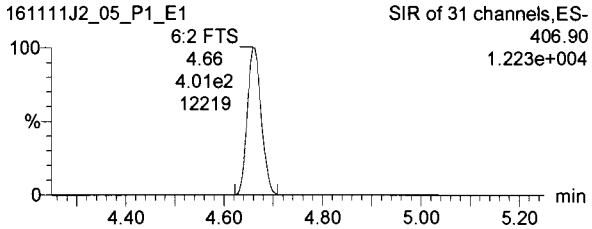

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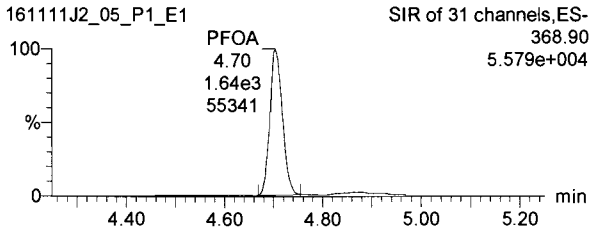

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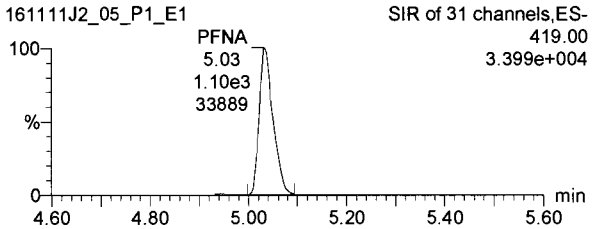

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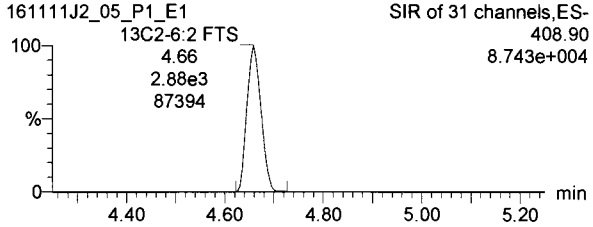

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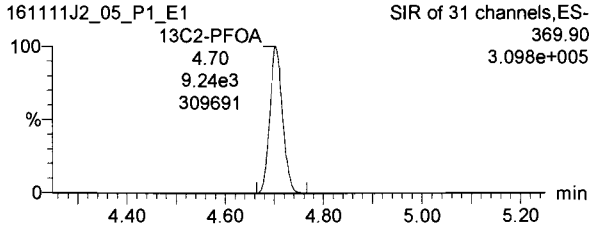

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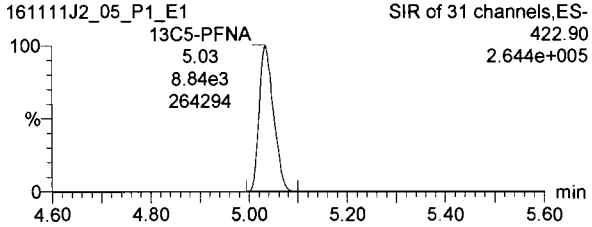

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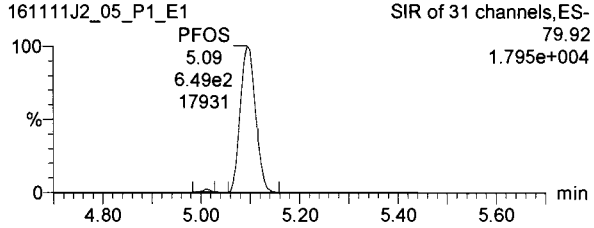

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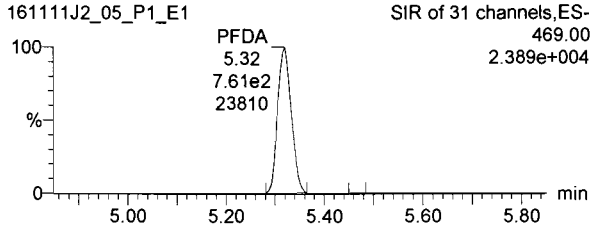

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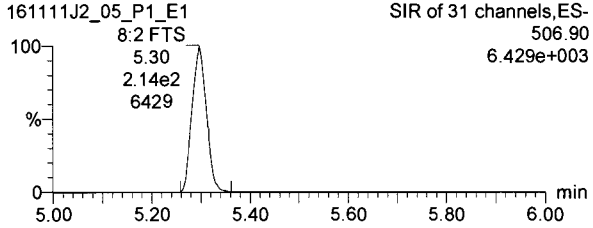

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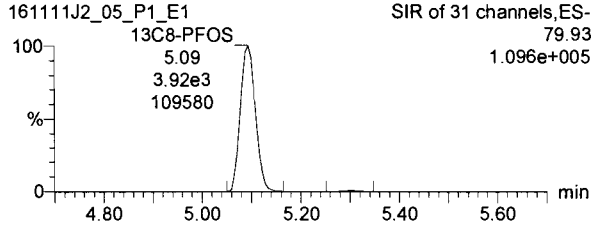

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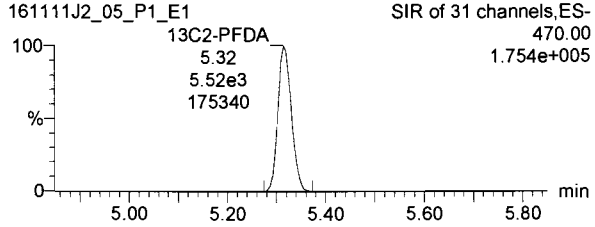

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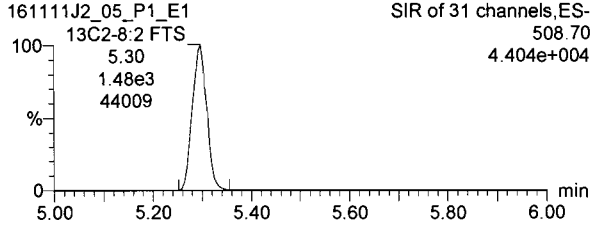

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Name: 161111J2_05.wiff, Date: 11-Nov-2016, Time: 17:16:11, ID: ST161111J2-4 PFC CS1 16K1117, Description: PFC CS1 16K1117 A

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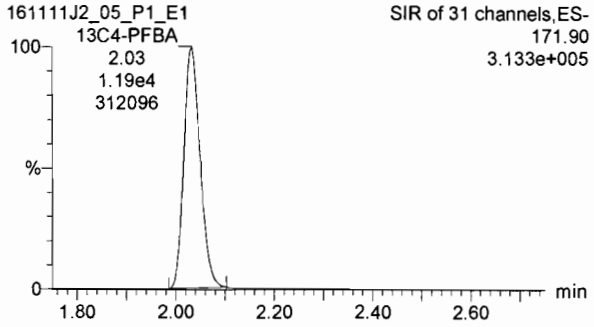

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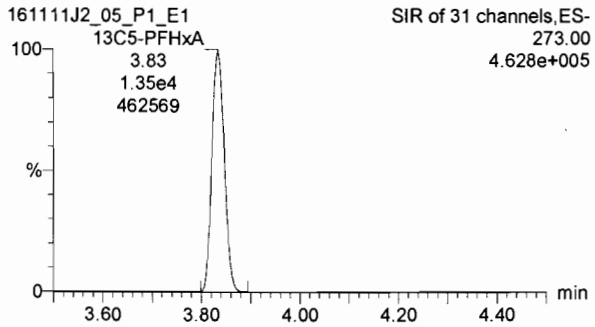

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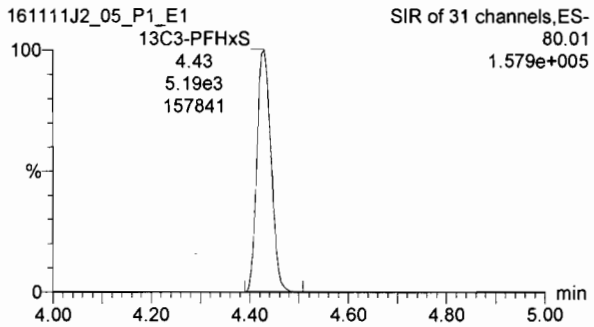

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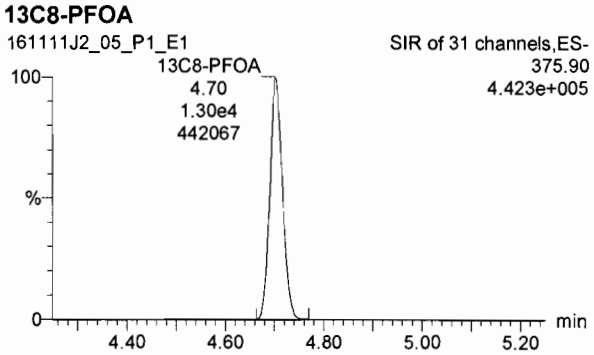

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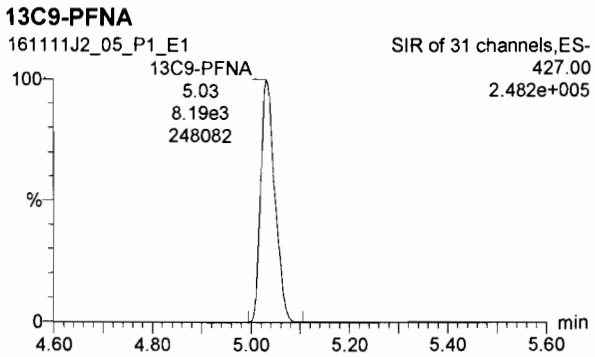

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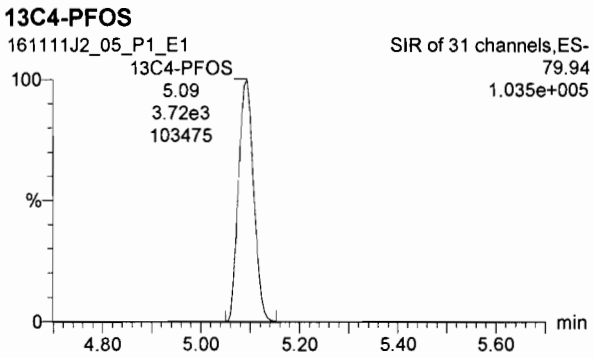

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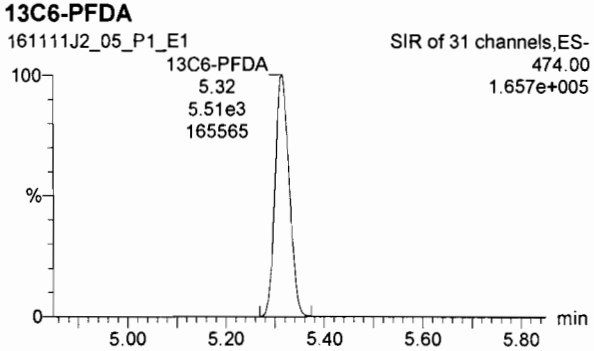

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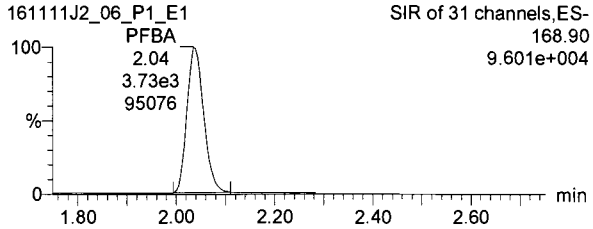

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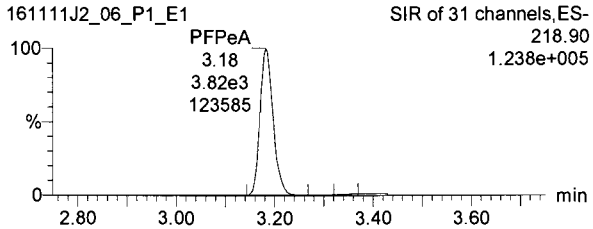

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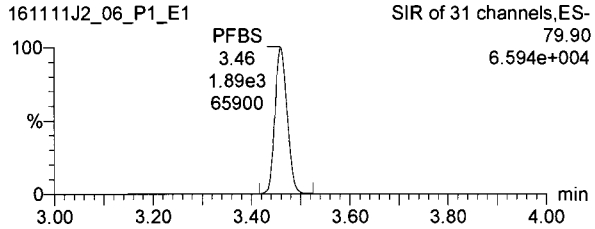

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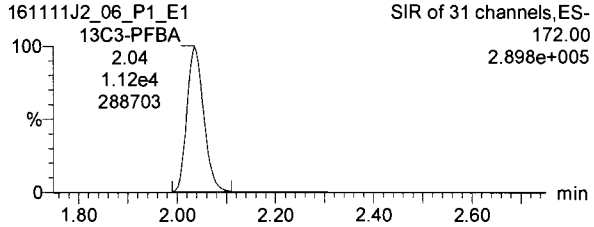

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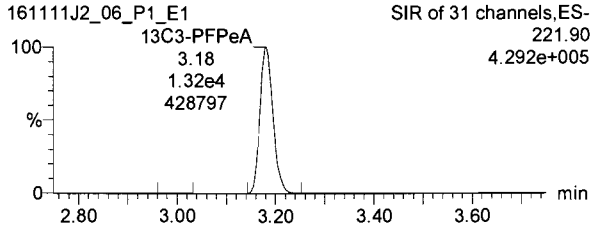

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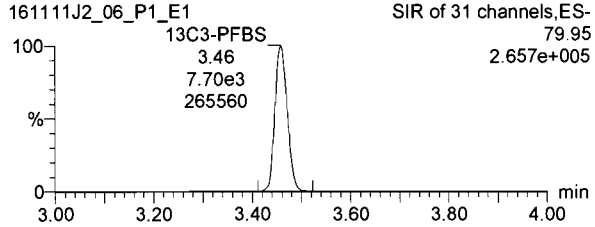

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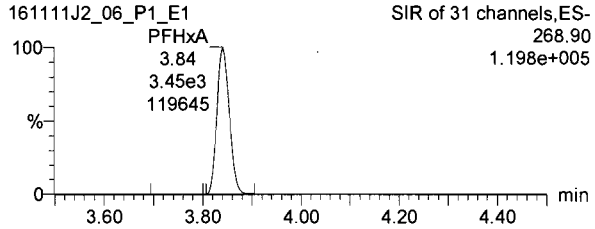

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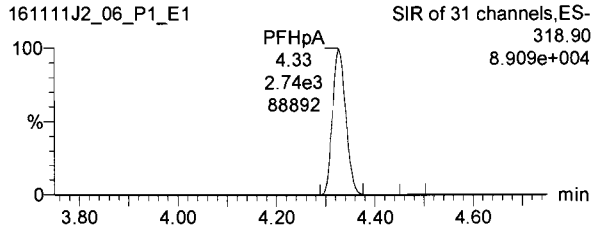

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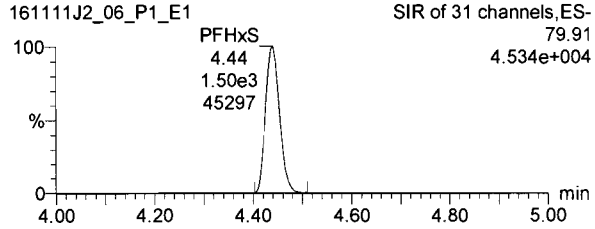

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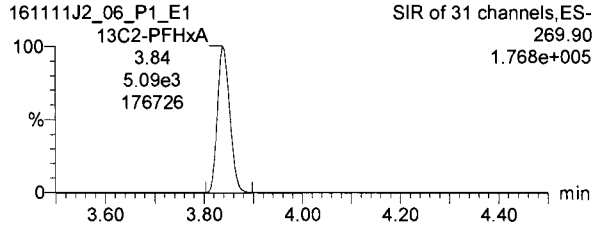

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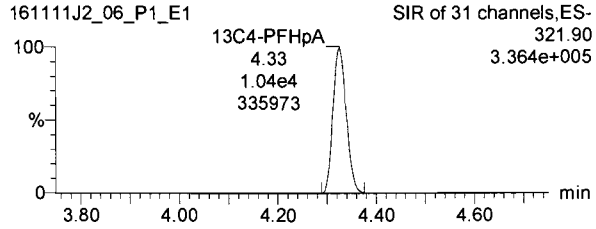

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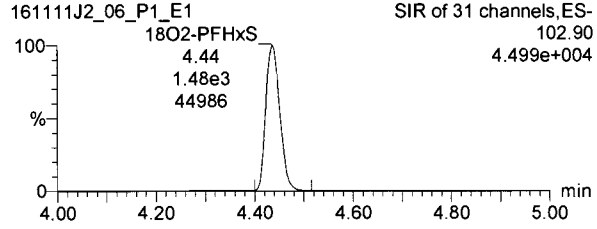

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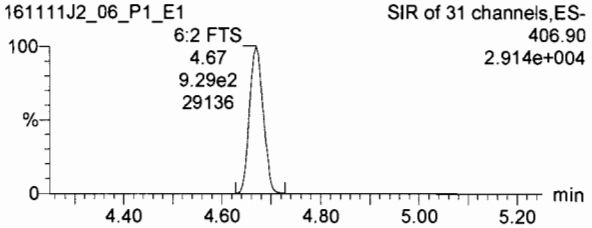

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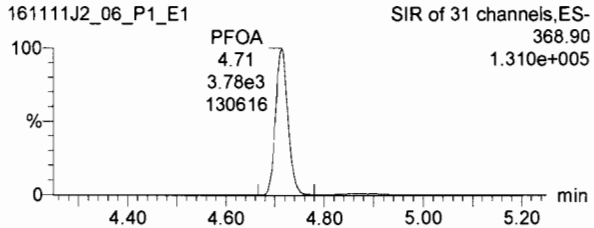

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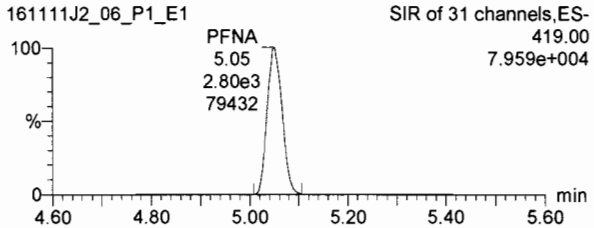

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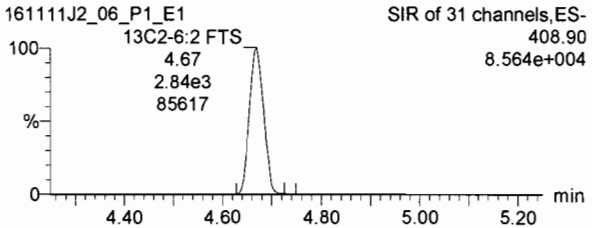

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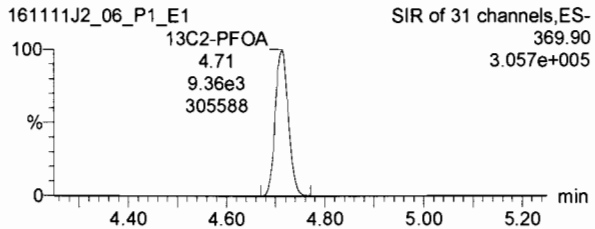

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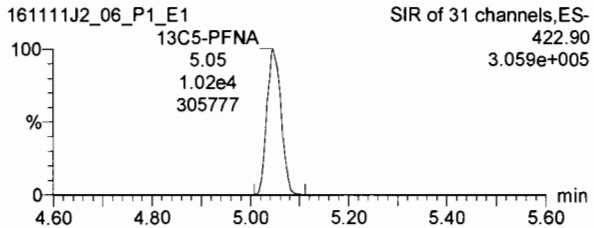

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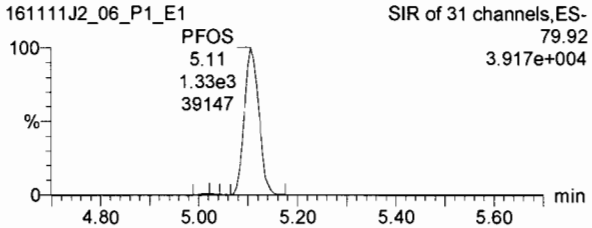

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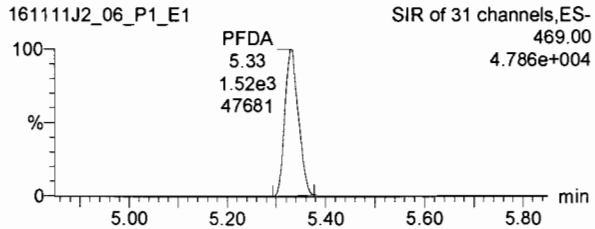

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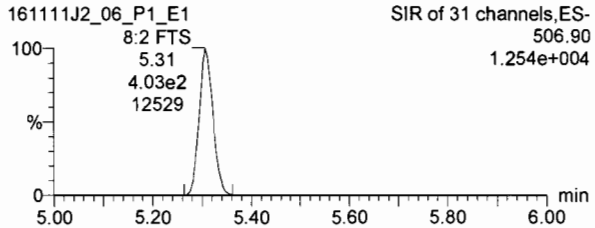

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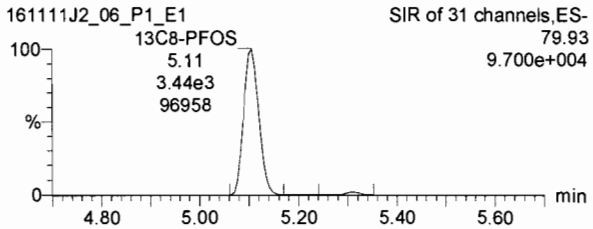

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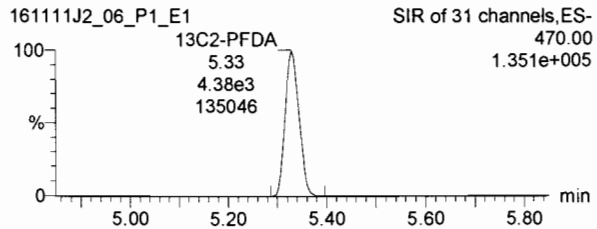

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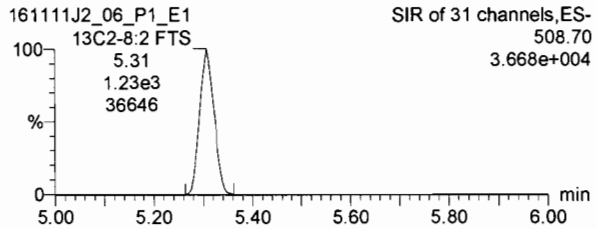

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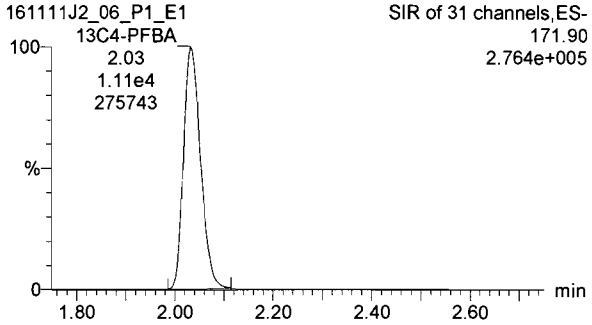
13C4-PFBA



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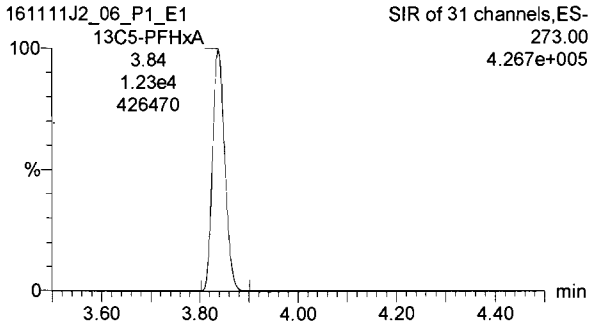

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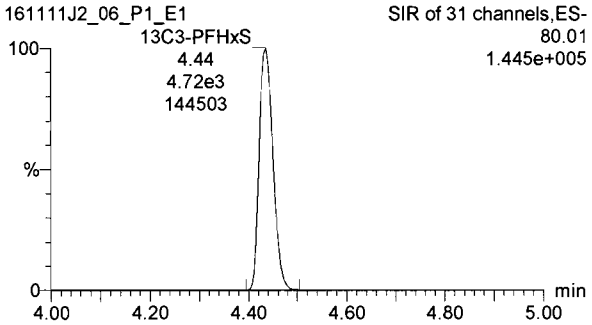

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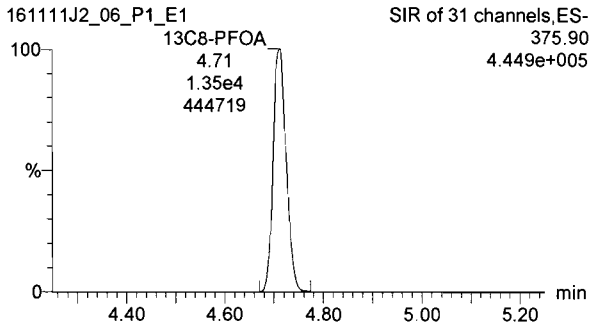

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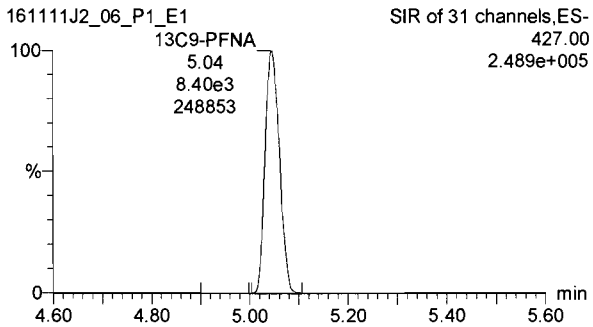

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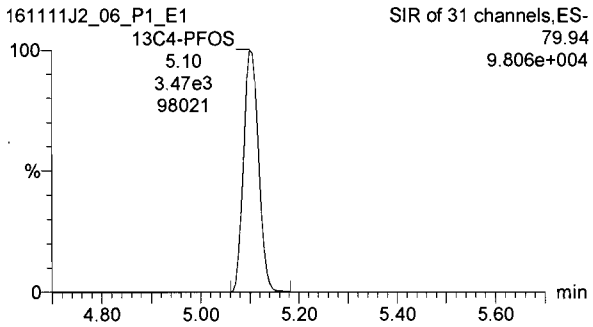

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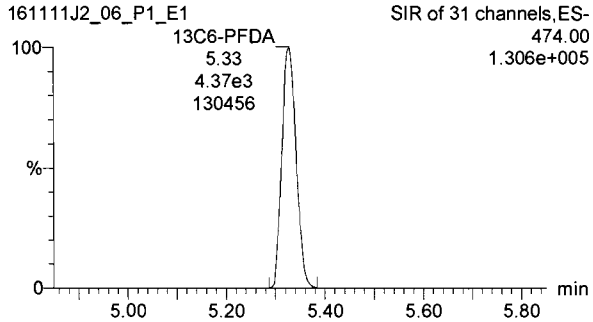

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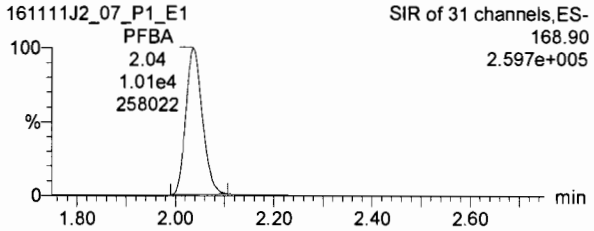

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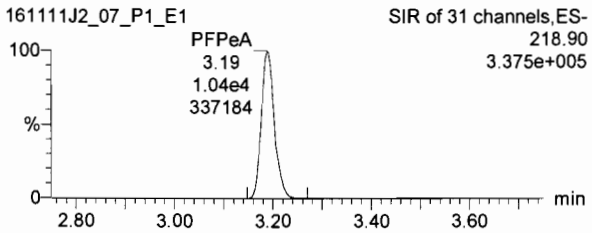

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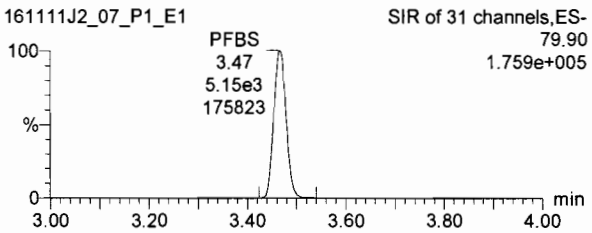
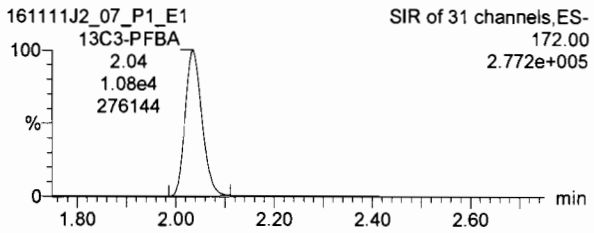


13C3-PFBA



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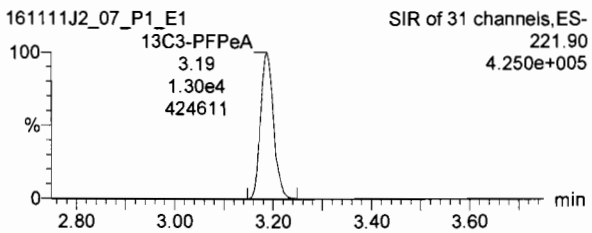

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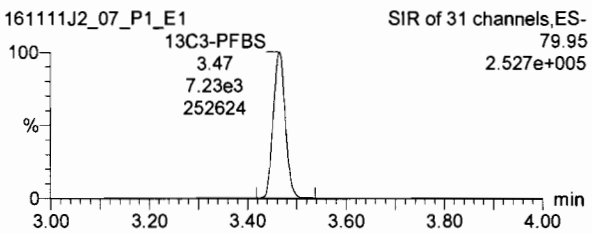

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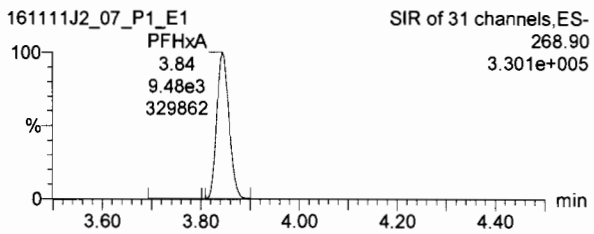

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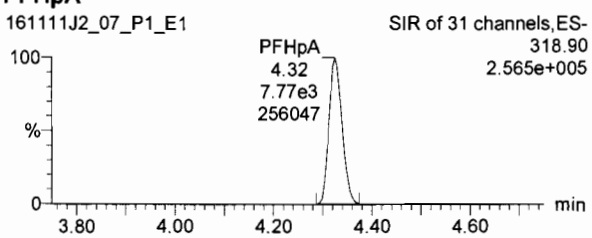

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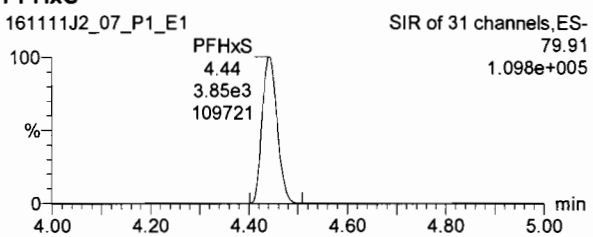

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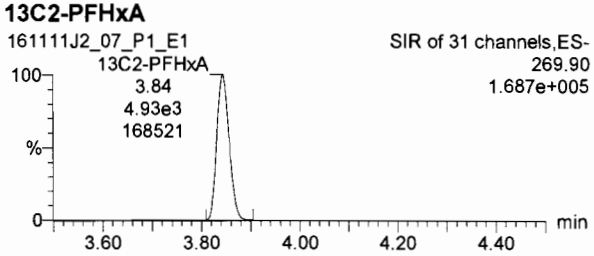

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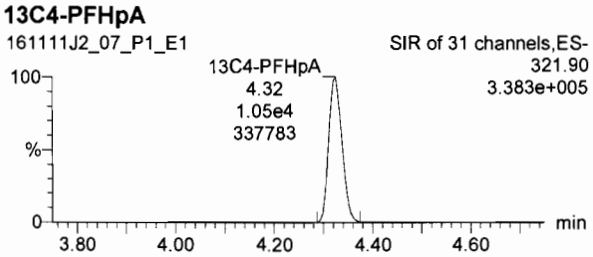

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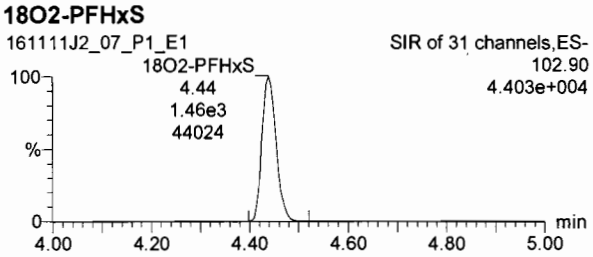

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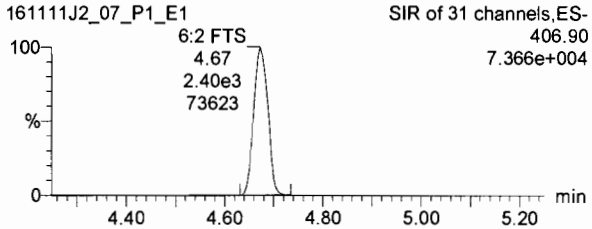
6:2 FTS



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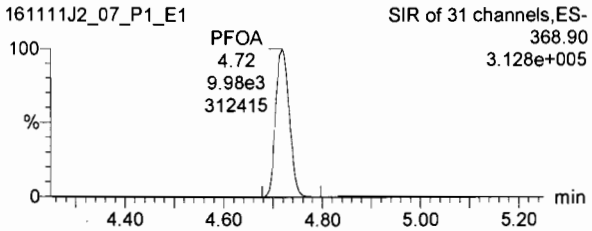

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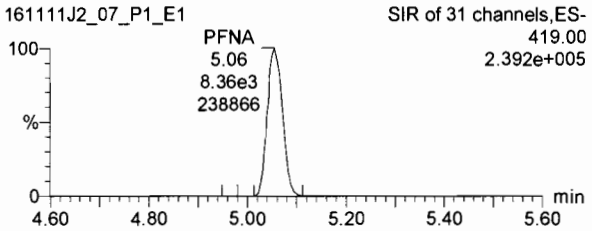

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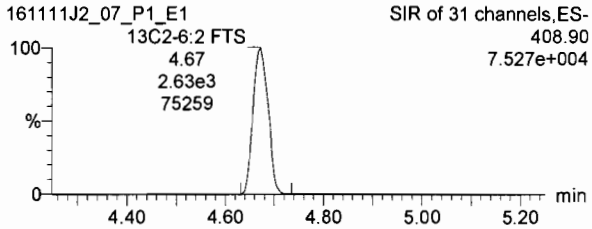

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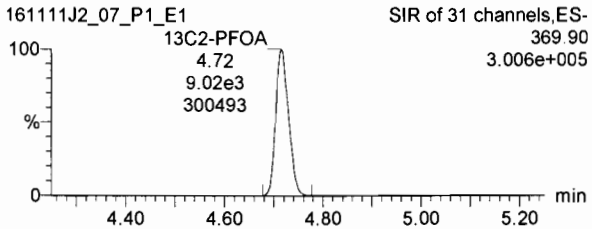

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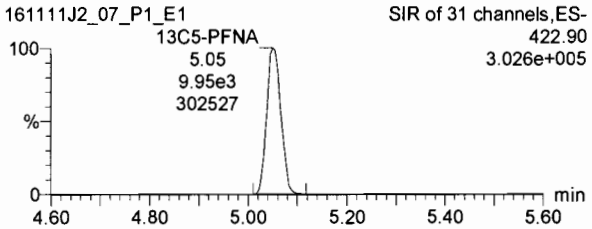

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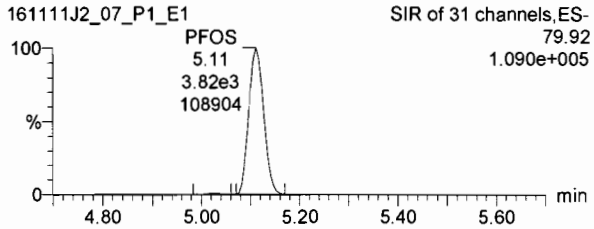

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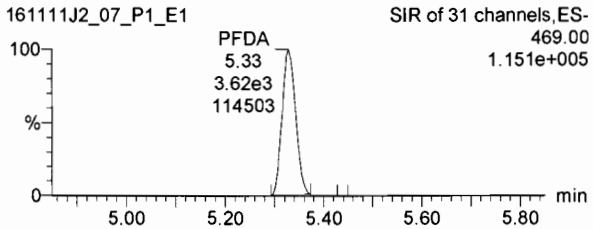

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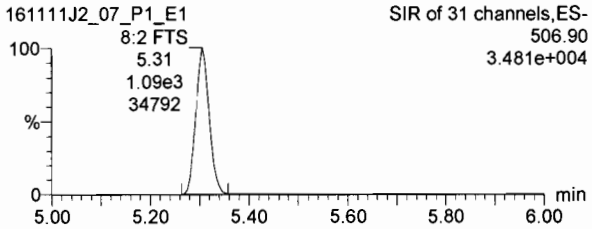

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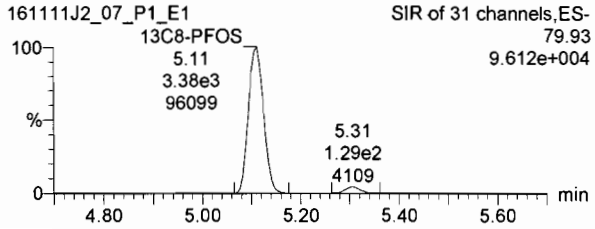

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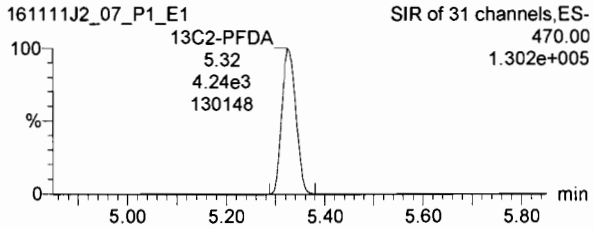

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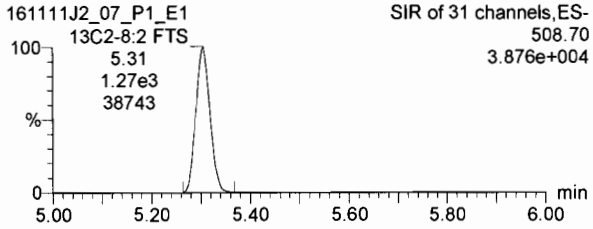

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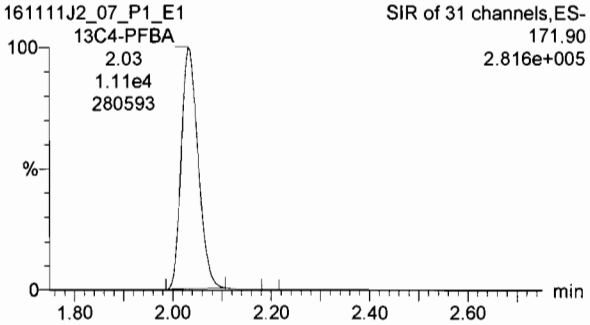
13C4-PFBA



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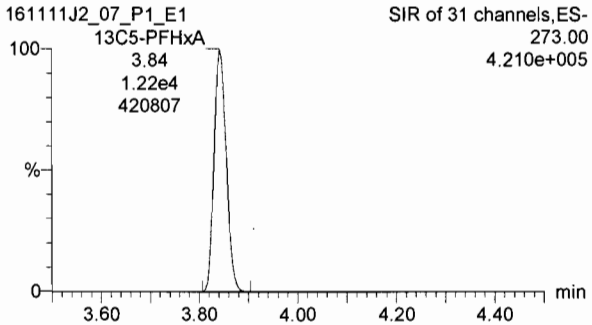

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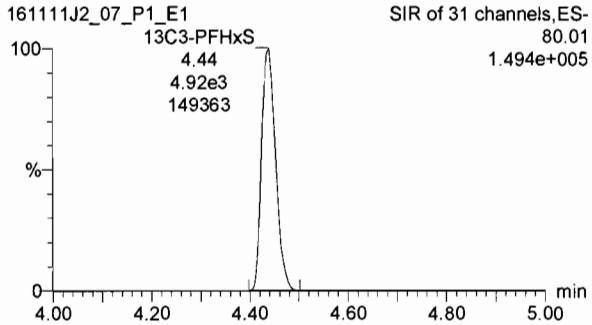

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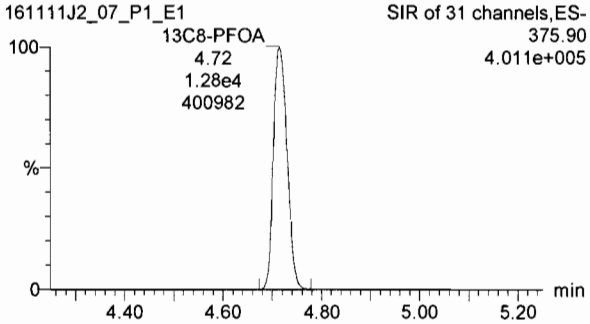

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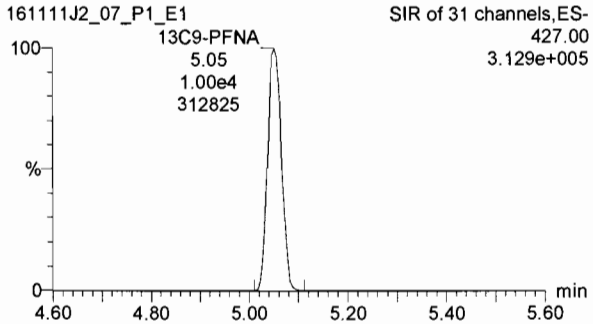

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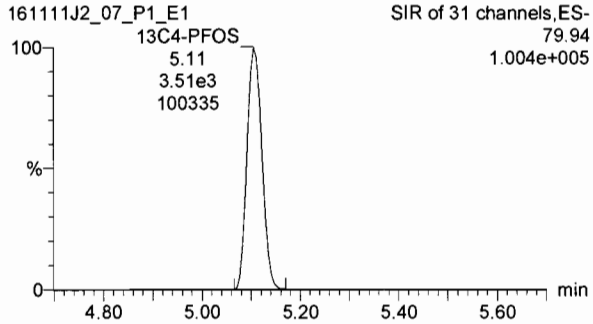

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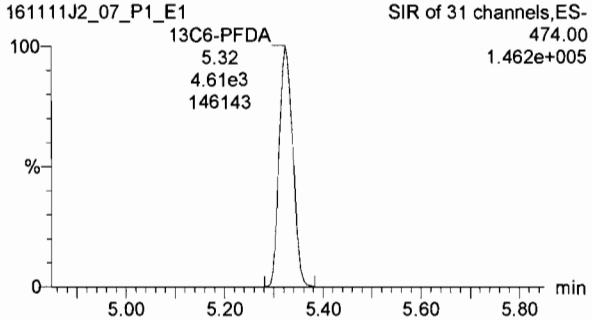

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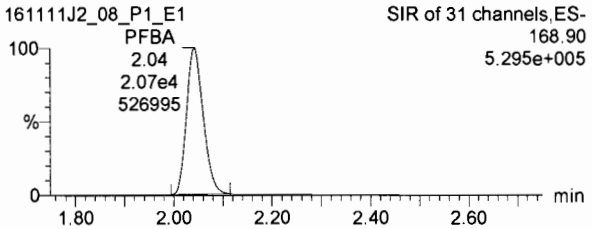

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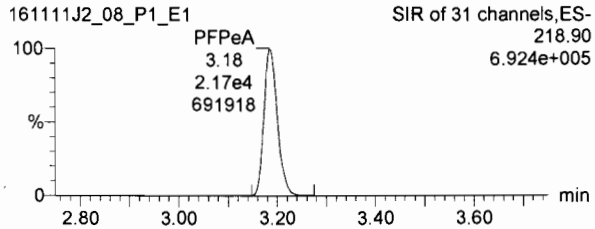

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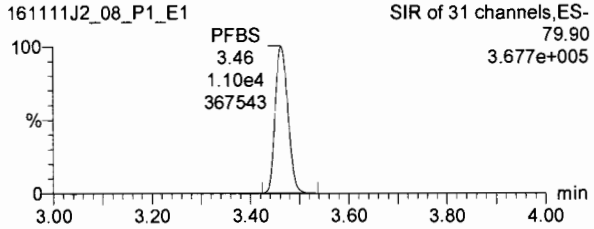

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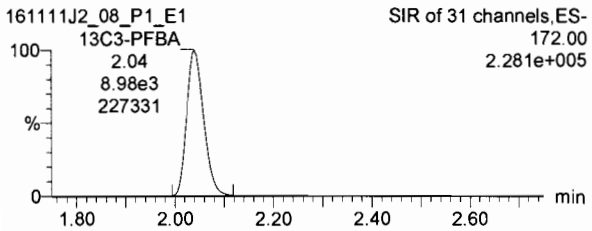

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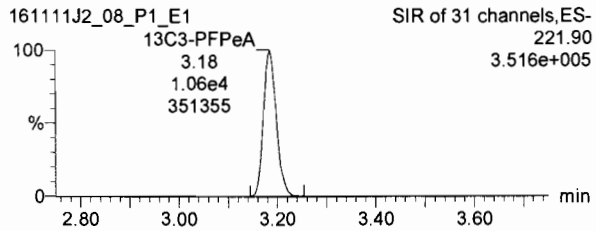

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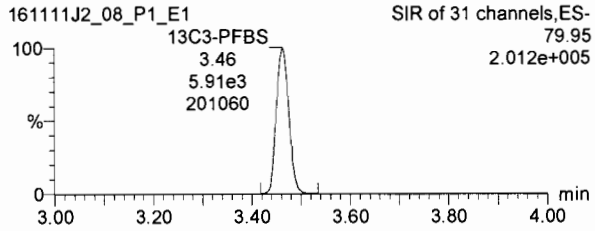

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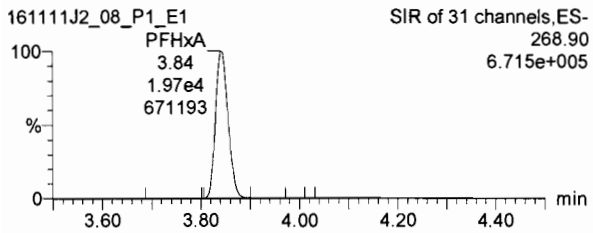

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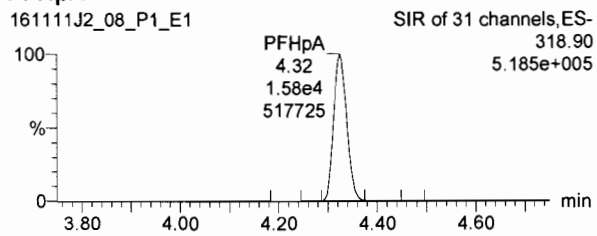

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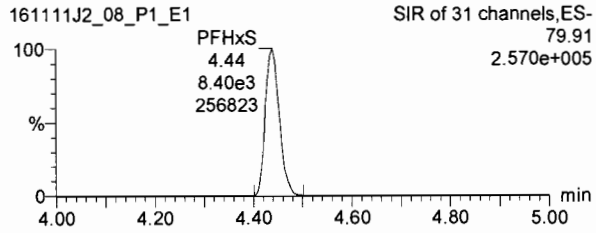

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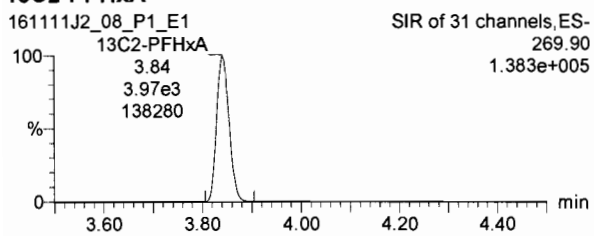

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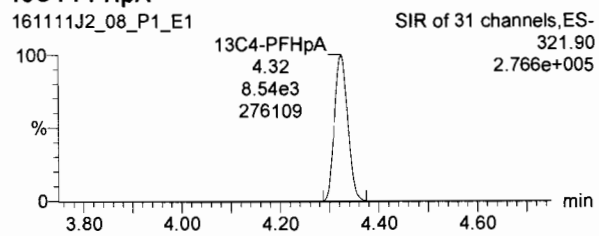

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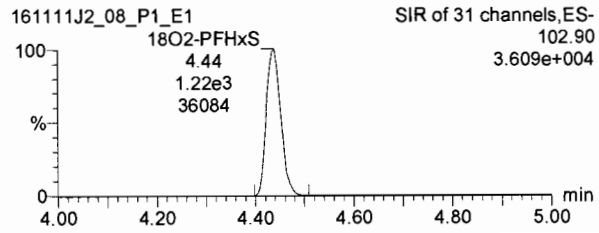

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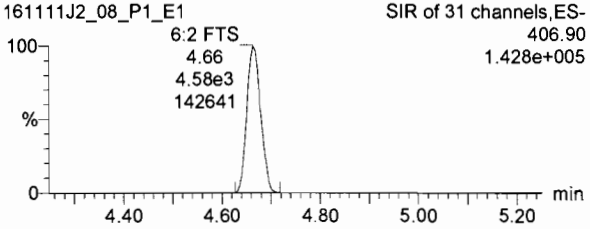

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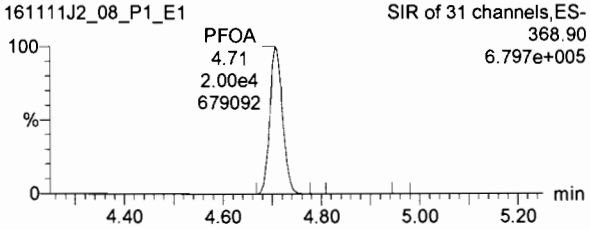

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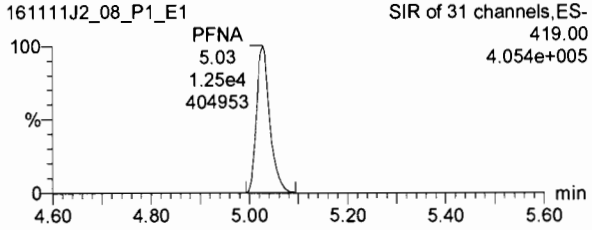

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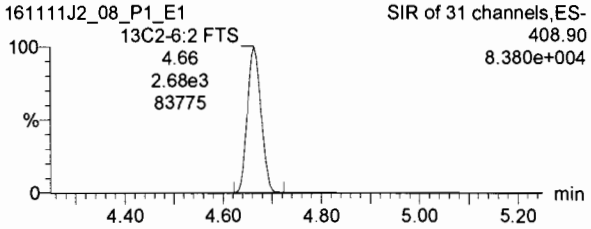

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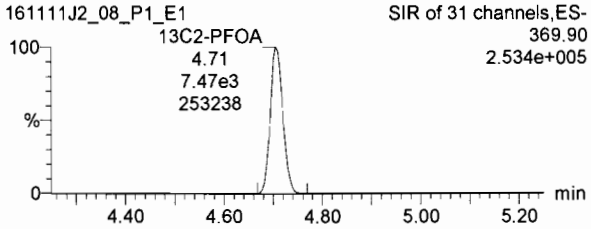

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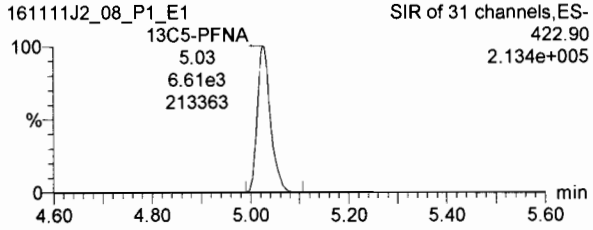

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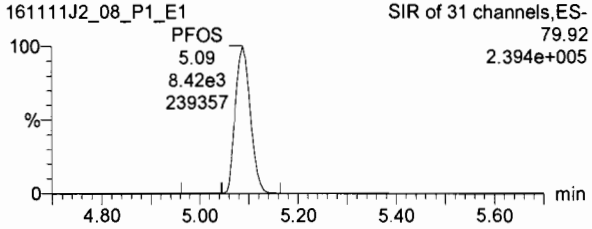

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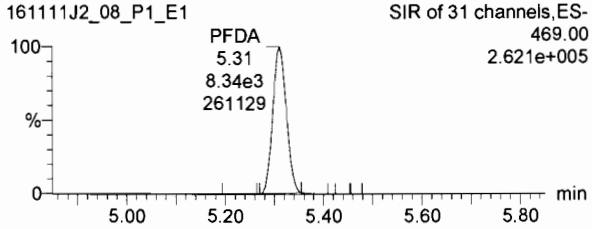

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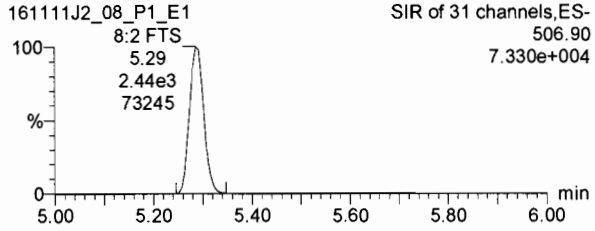

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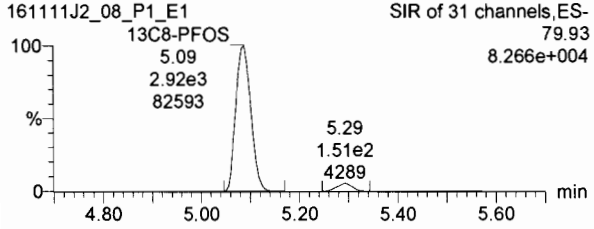

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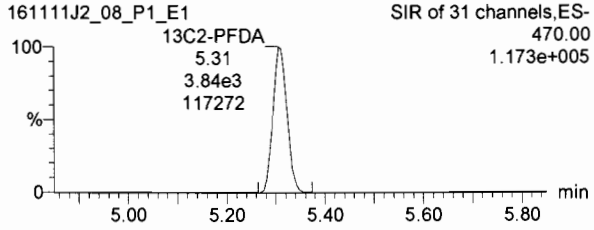
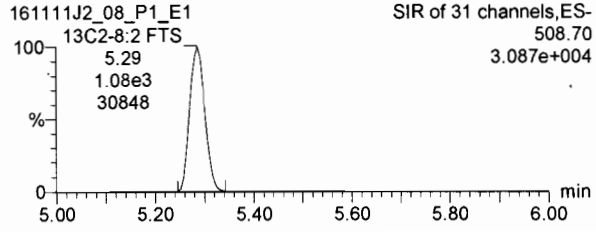


13C2-8:2 FTS



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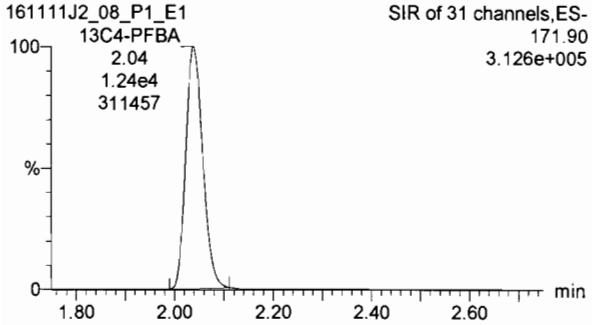
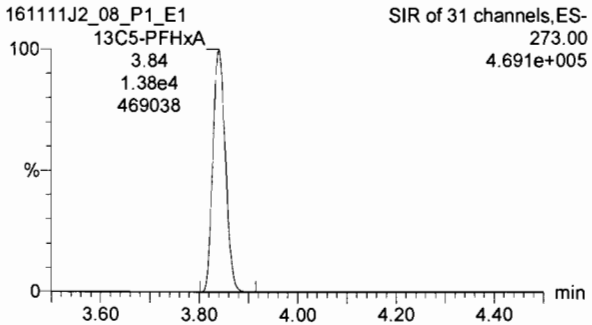
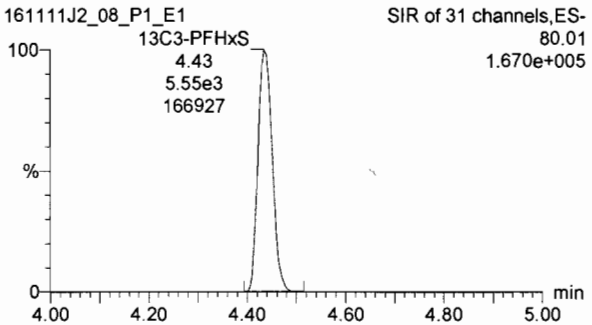


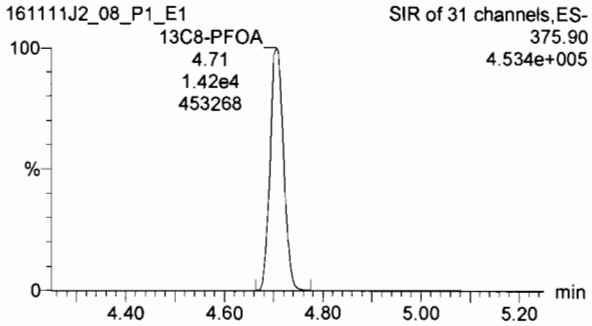
13C5-PFHxA



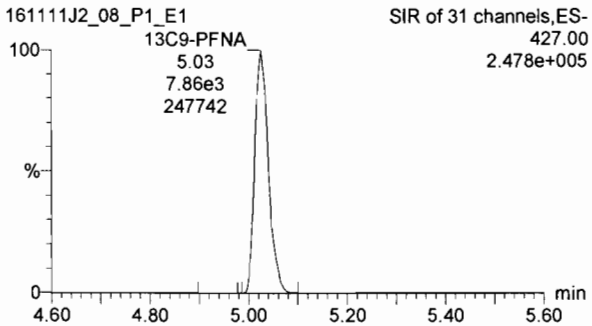
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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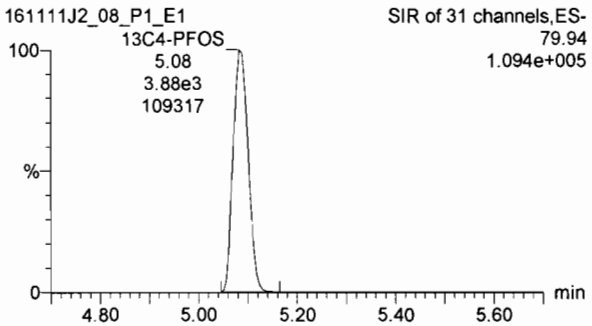

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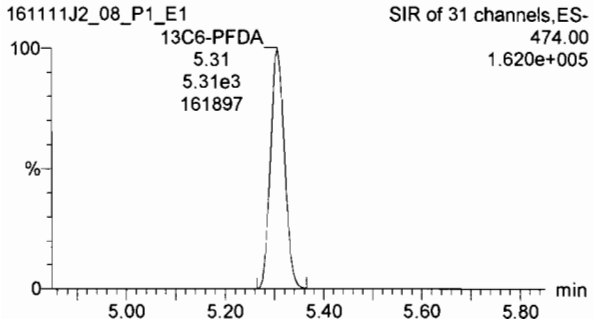

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Name: 161111J2_09.wiff, Date: 11-Nov-2016, Time: 18:05:09, ID: ST161111J2-8 PFC CS4 16K1121, Description: PFC CS4 16K1121 A

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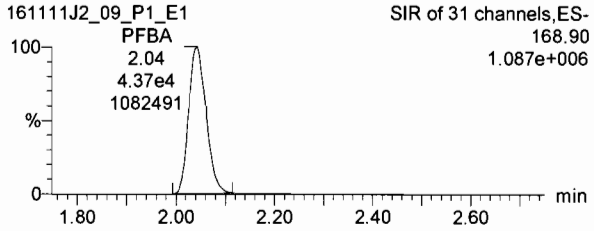

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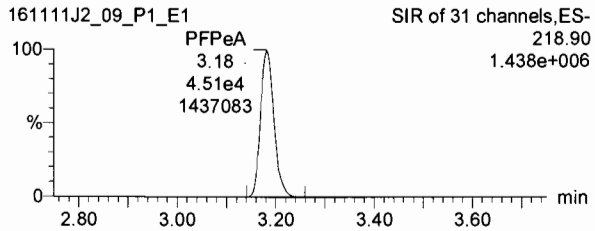

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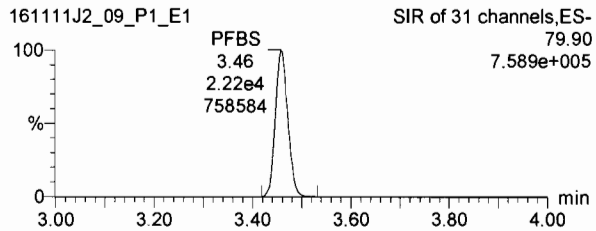

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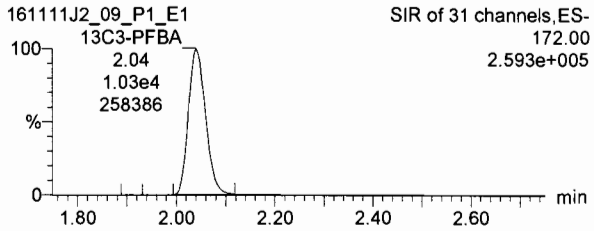

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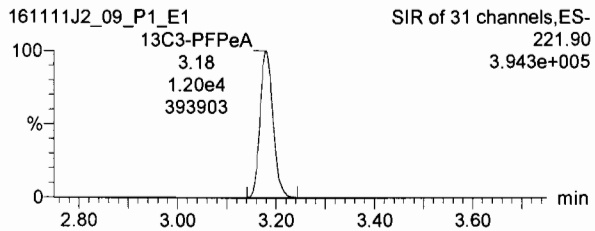

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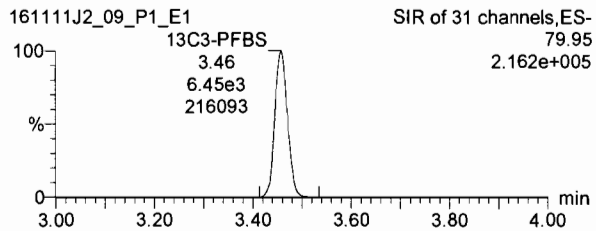

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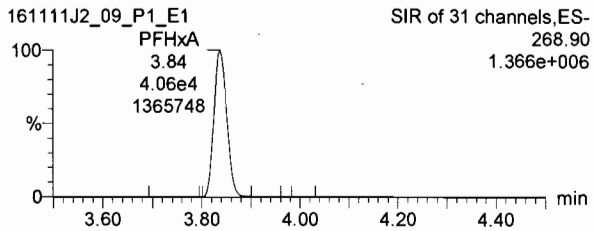

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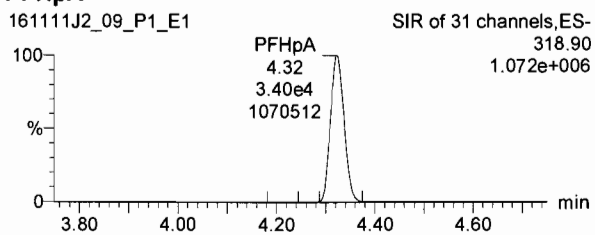

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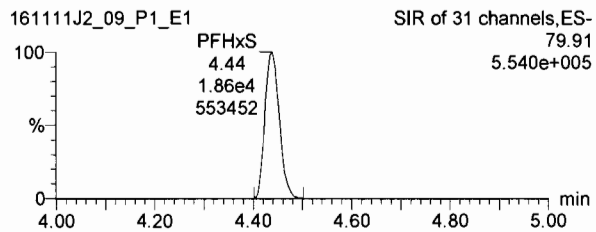
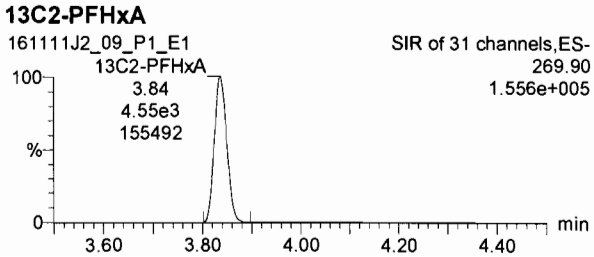
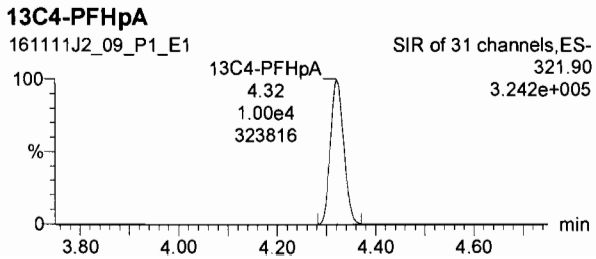


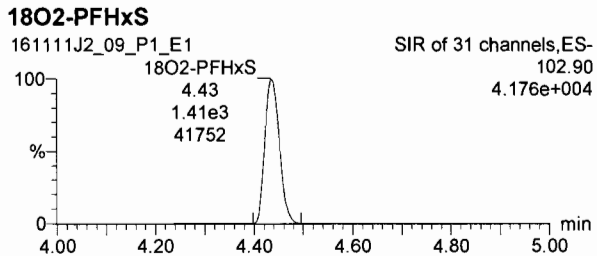
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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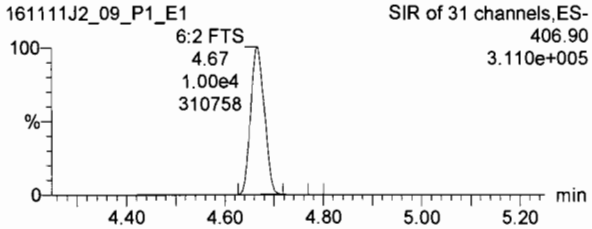
Name: 161111J2_09.wiff, Date: 11-Nov-2016, Time: 18:05:09, ID: ST161111J2-8 PFC CS4 16K1121, Description: PFC CS4 16K1121 A

6:2 FTS



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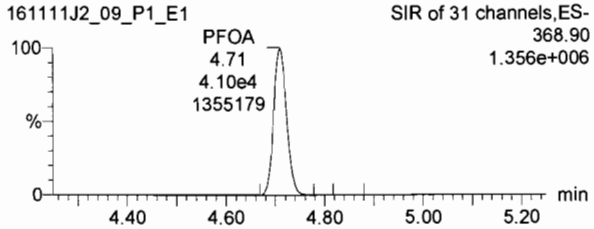

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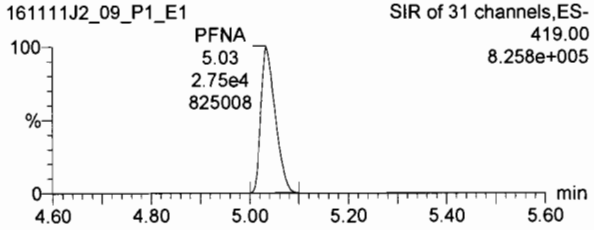

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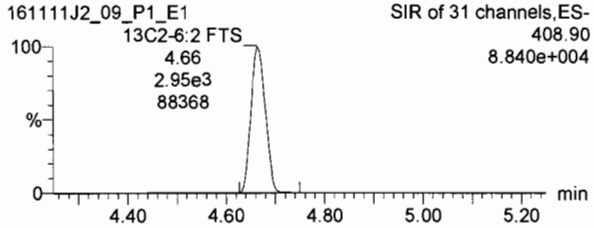

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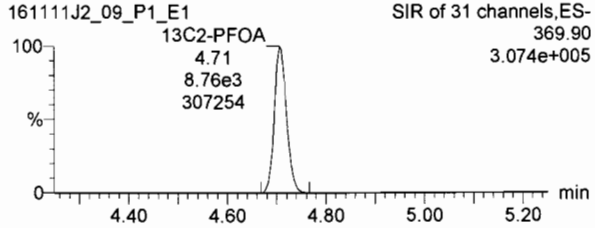

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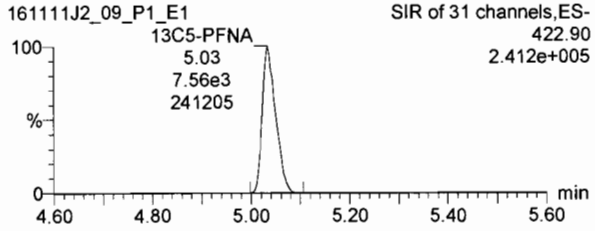

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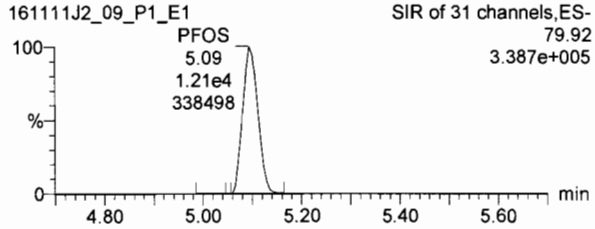

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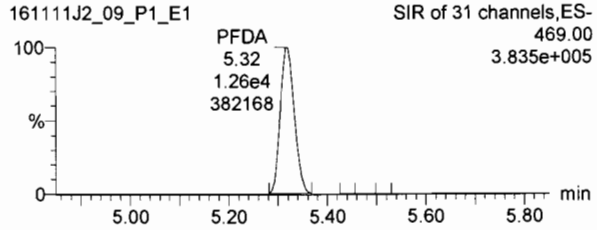
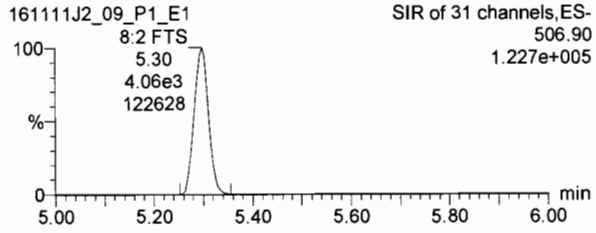


8:2 FTS



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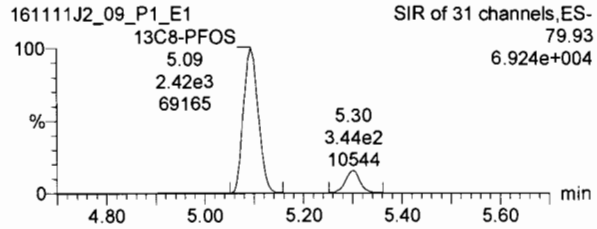

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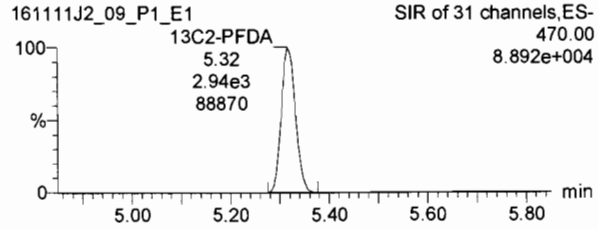

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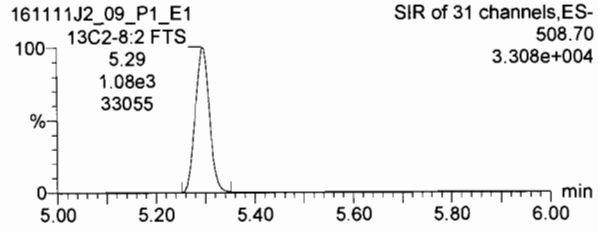

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Name: 161111J2_09.wiff, Date: 11-Nov-2016, Time: 18:05:09, ID: ST161111J2-8 PFC CS4 16K1121, Description: PFC CS4 16K1121 A

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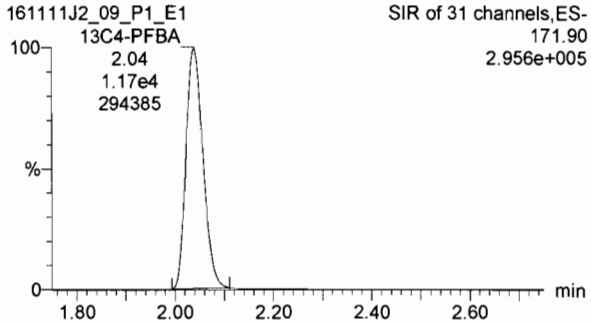

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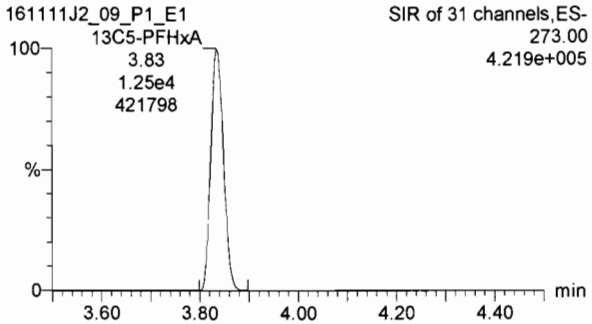

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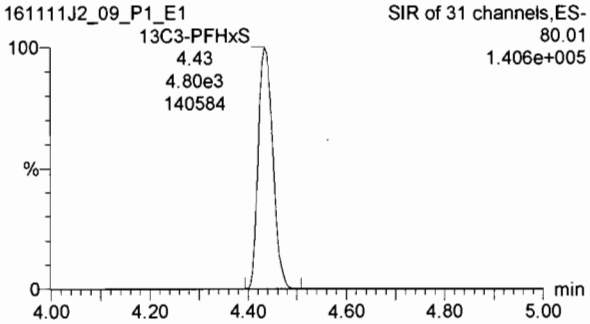

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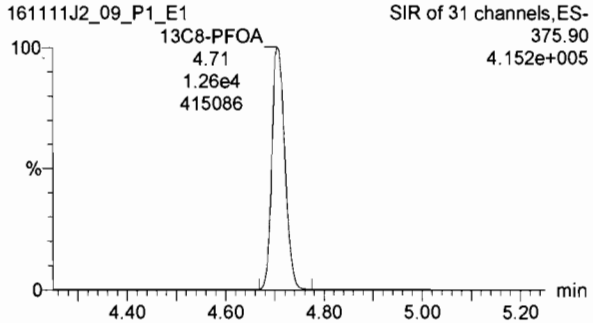

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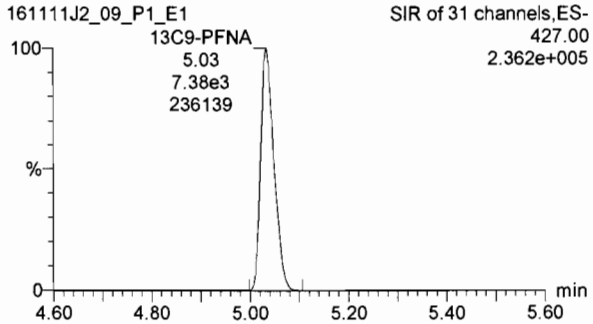

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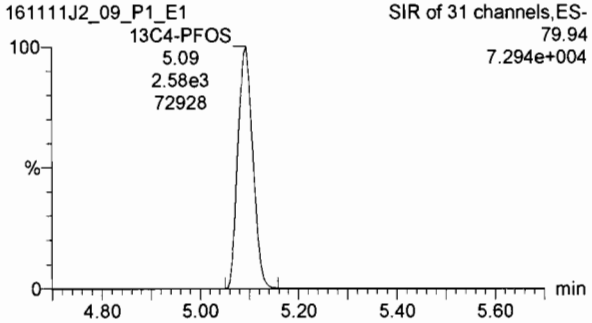

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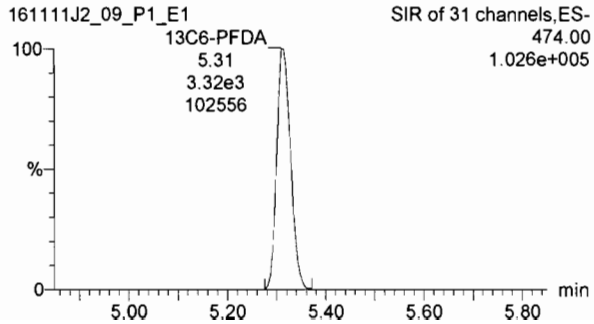

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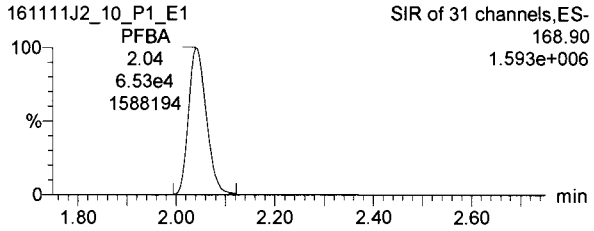

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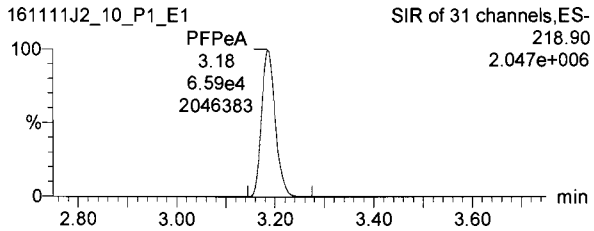

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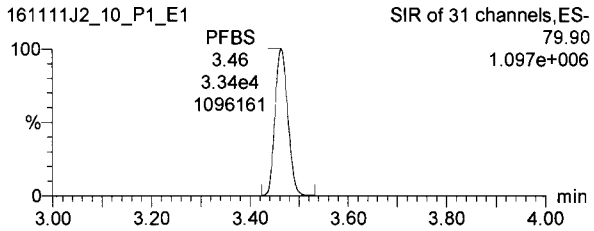

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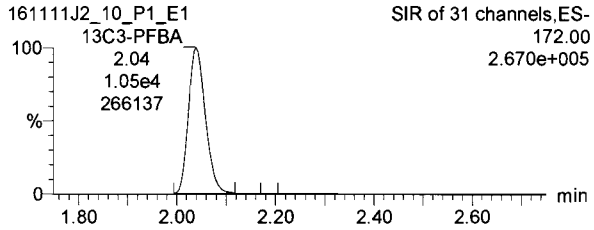

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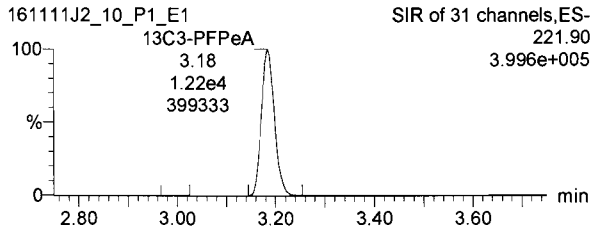

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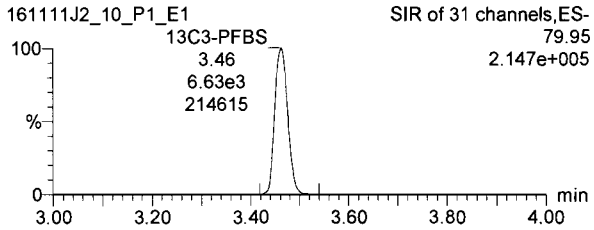

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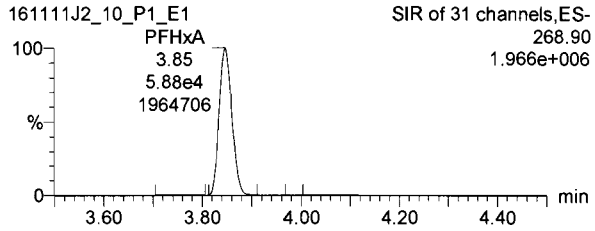

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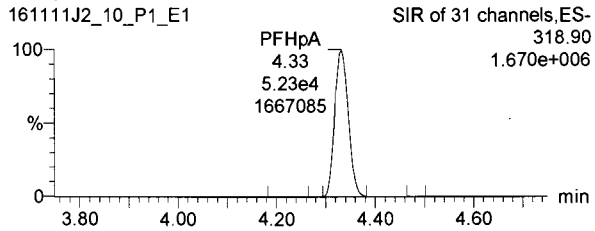

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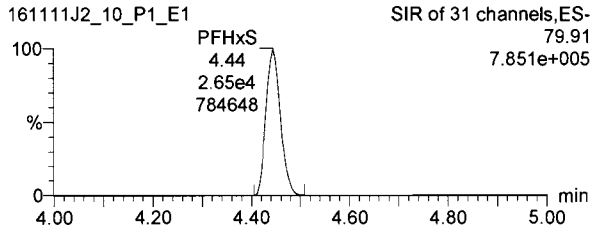

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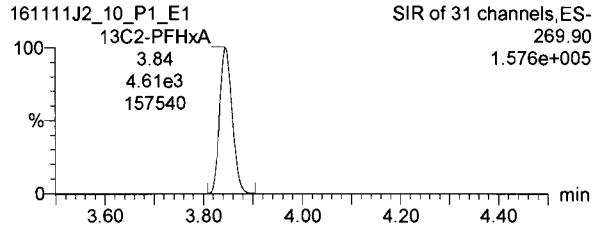

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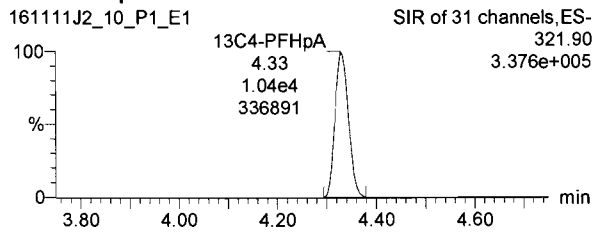

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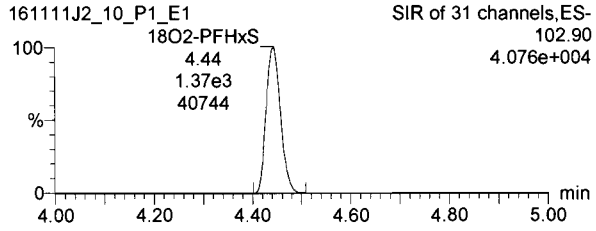

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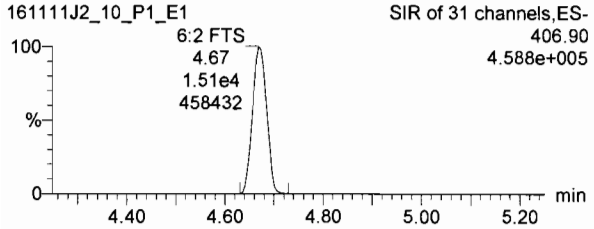

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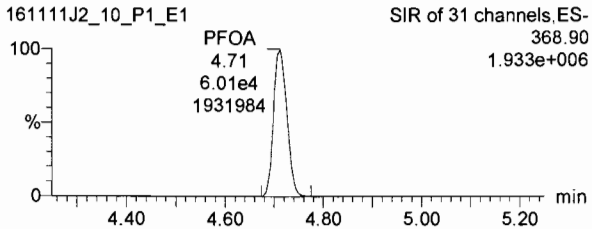

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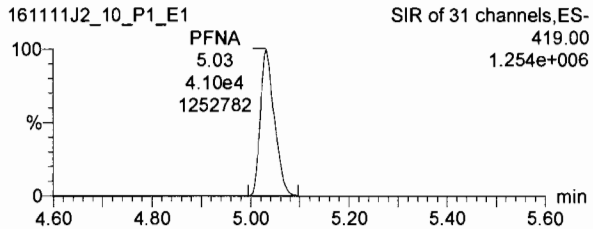

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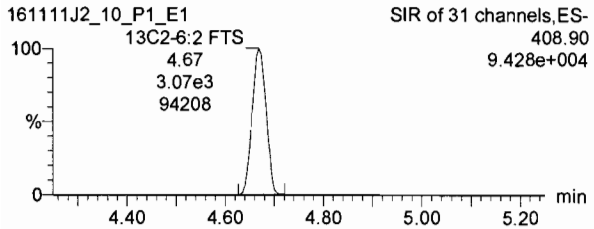
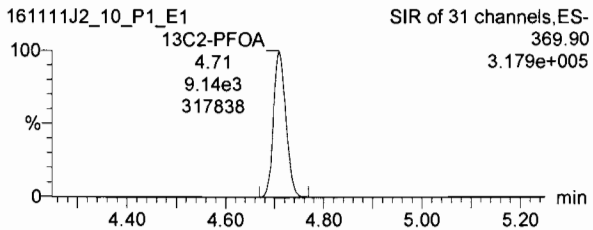


13C2-PFOA



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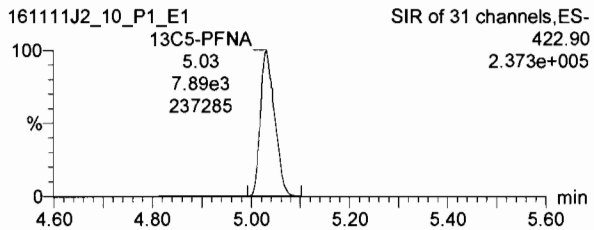

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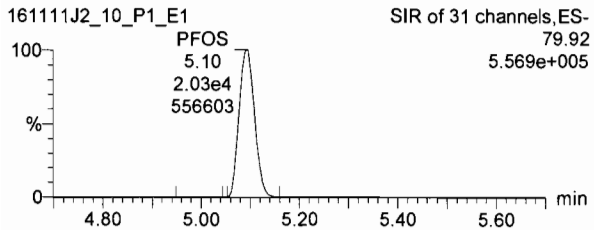

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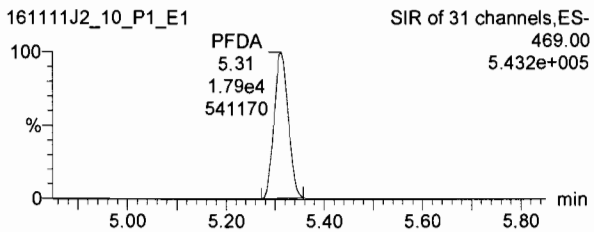
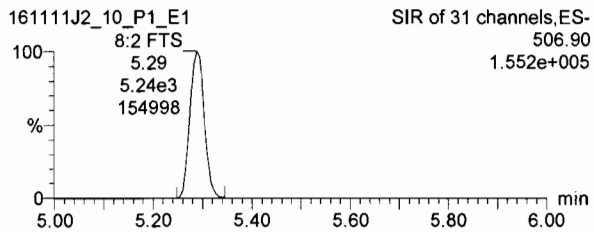
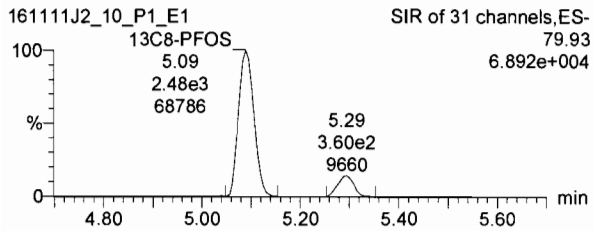


8:2 FTS



13C8-PFOS



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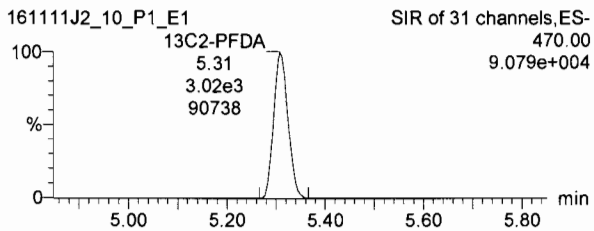
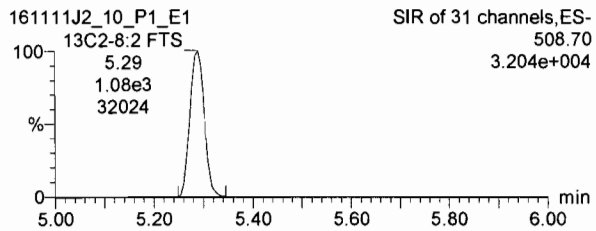


13C2-8:2 FTS



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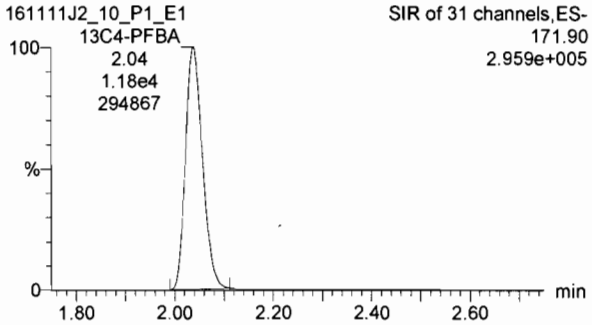
Printed: Saturday, November 12, 2016 10:55:05 Pacific Standard Time

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



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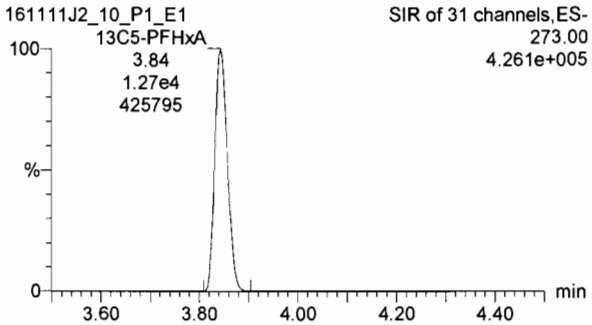

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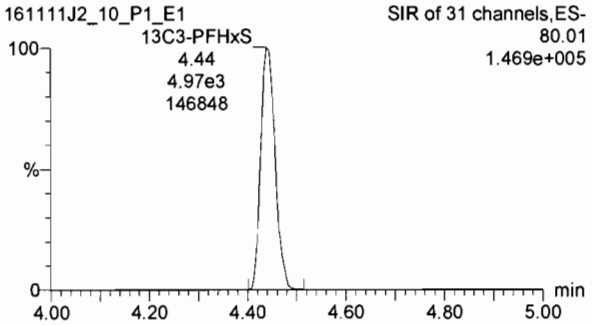

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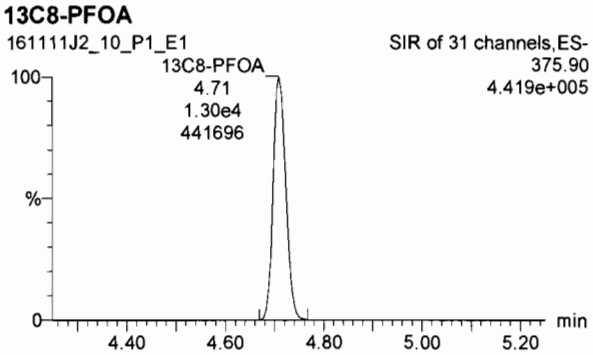

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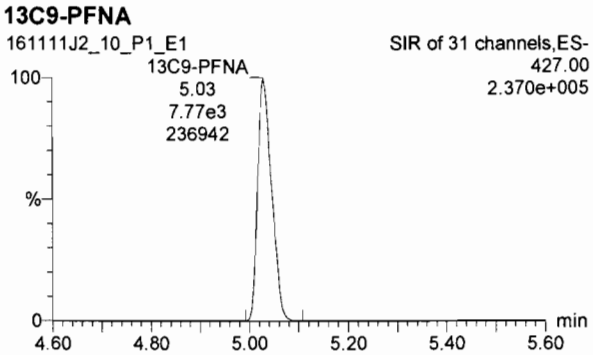

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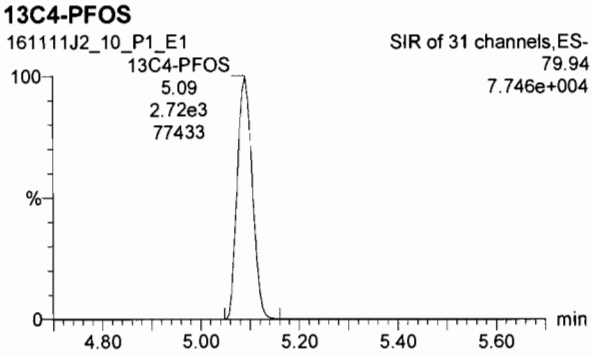
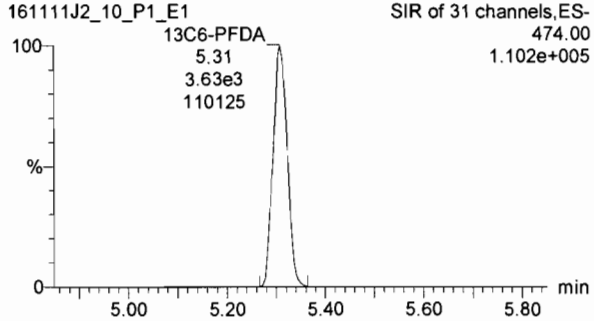


13C6-PFDA



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Name: 161111J2_11.wiff, Date: 11-Nov-2016, Time: 18:29:38, ID: ST161111J2-10 PFC CS5 16K1123, Description: PFC CS5 16K1123 A

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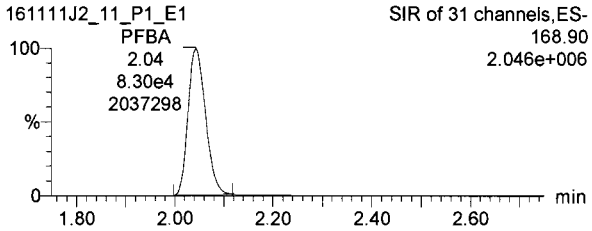

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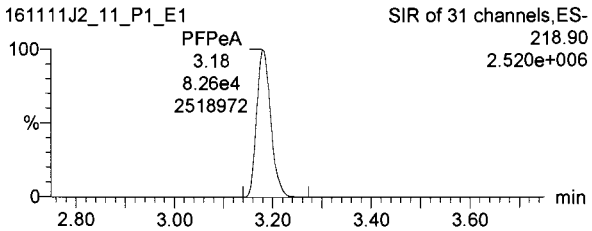

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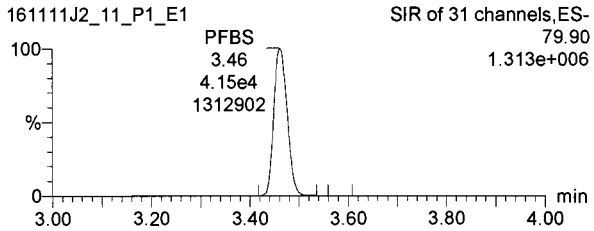

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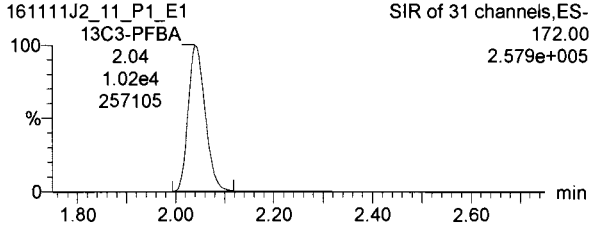

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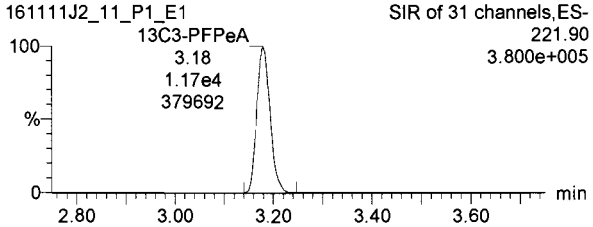

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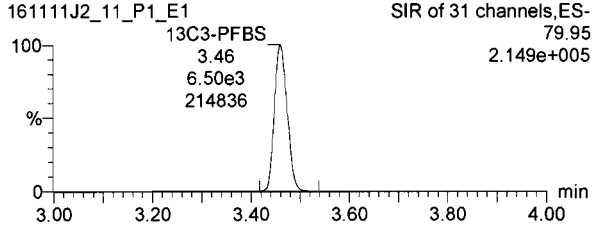

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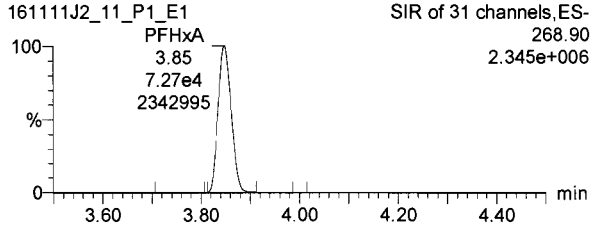

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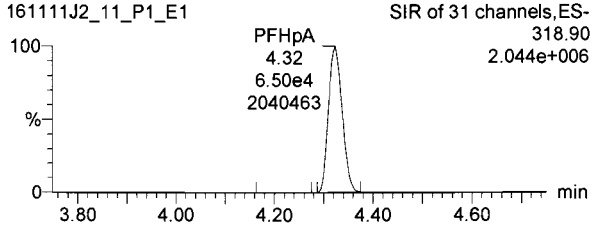

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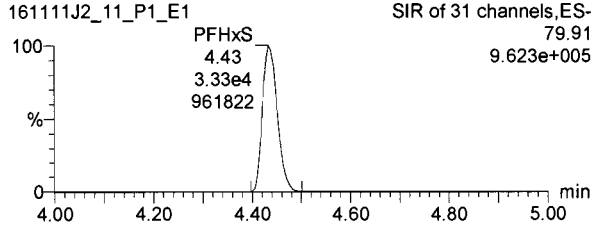

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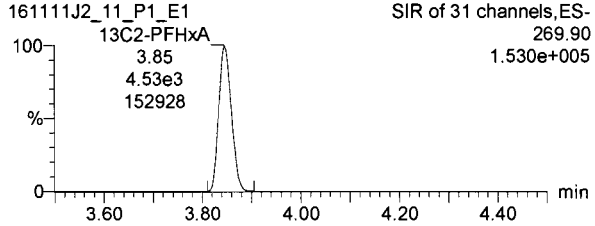

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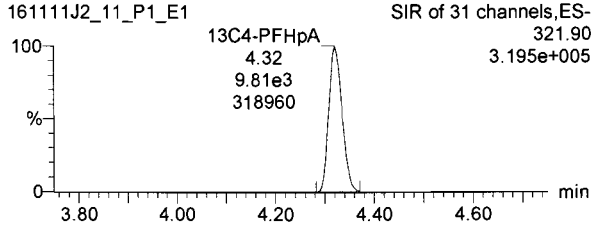
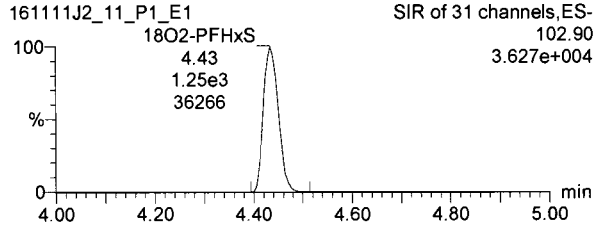


18O2-PFHxS



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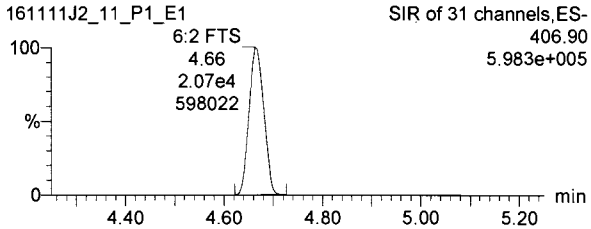
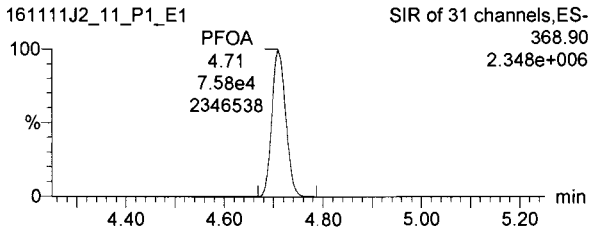
Name: 161111J2_11.wiff, Date: 11-Nov-2016, Time: 18:29:38, ID: ST161111J2-10 PFC CS5 16K1123, Description: PFC CS5 16K1123 A

6:2 FTS



PFOA



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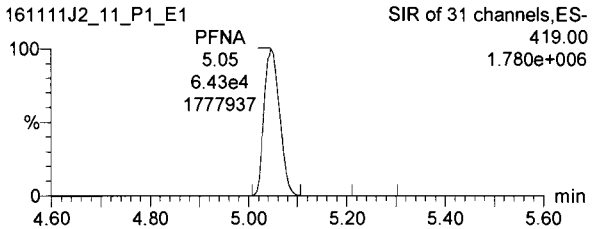
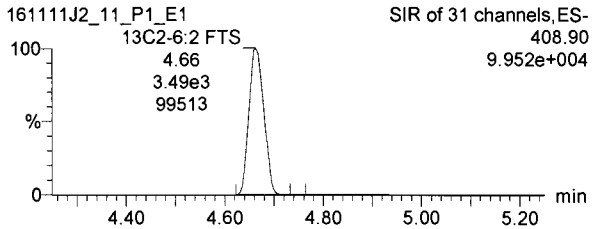


13C2-6:2 FTS



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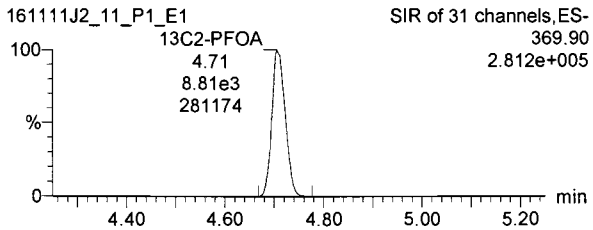

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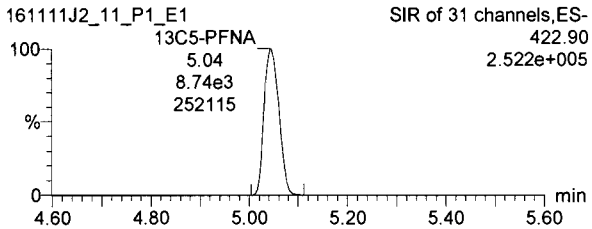

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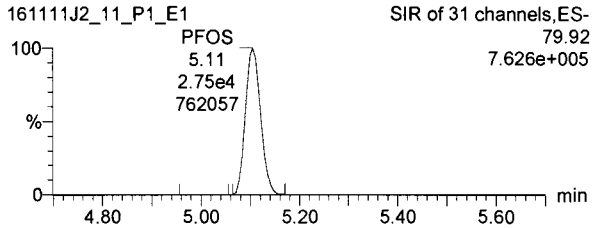

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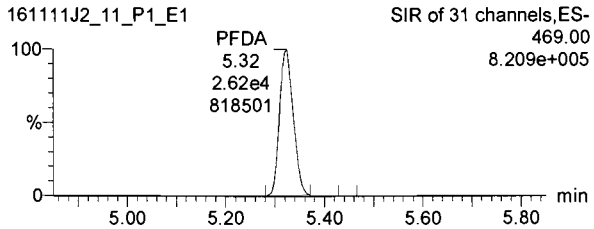

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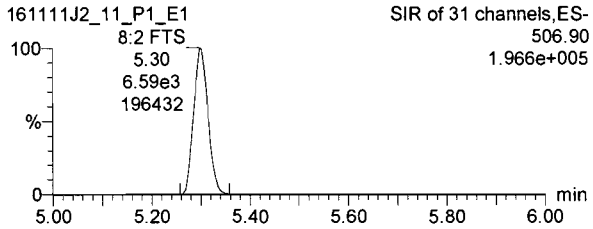

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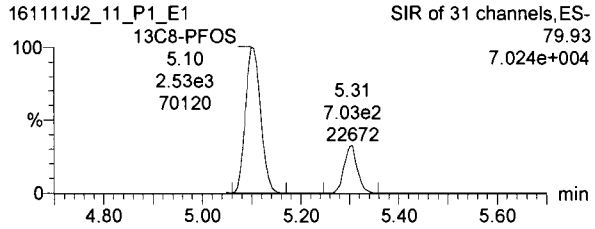

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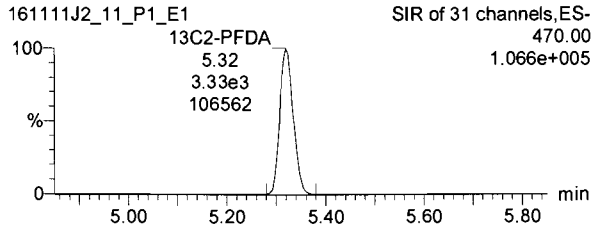
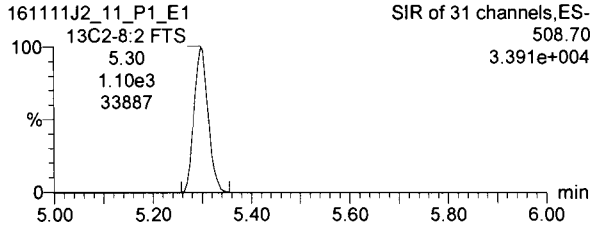


13C2-8:2 FTS



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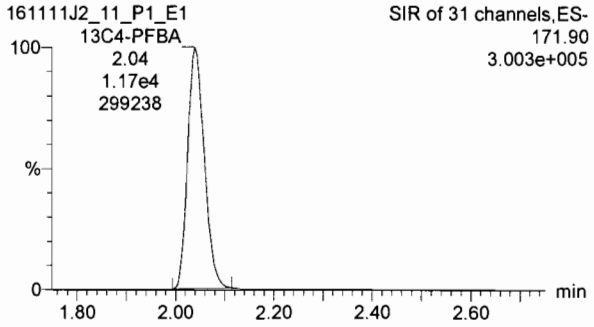

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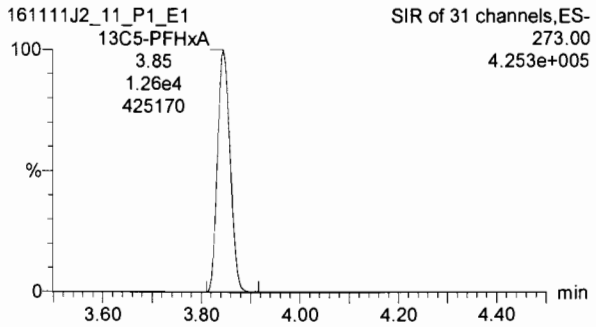

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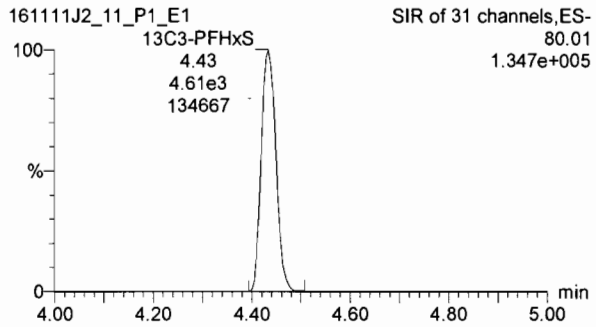

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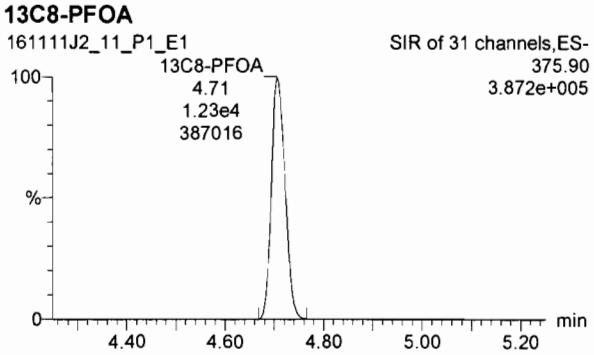

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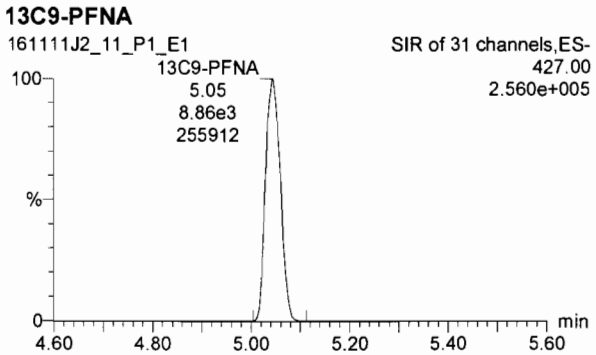

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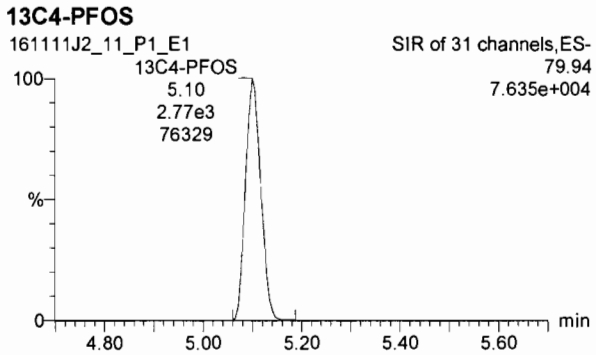

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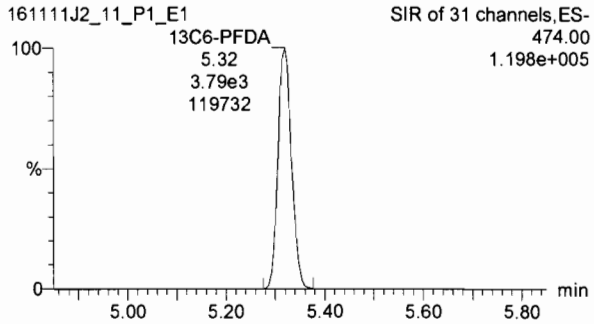

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

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Printed: Saturday, November 12, 2016 10:57:30 Pacific Standard Time

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Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

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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

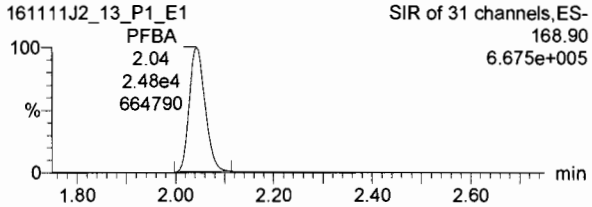
Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:42 Pacific Standard Time

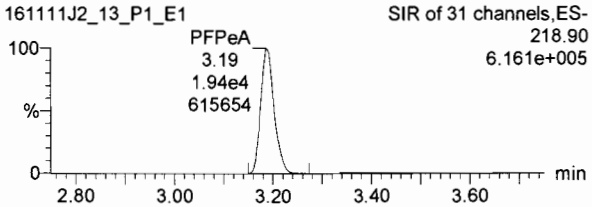
Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Mixed.mdb 12 Nov 2016 10:51:05
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-11-16_L18_A.cdb 12 Nov 2016 10:16:40

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

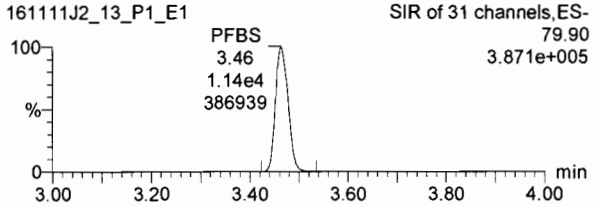
PFBA



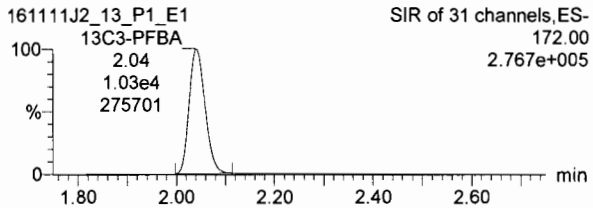
PFPeA



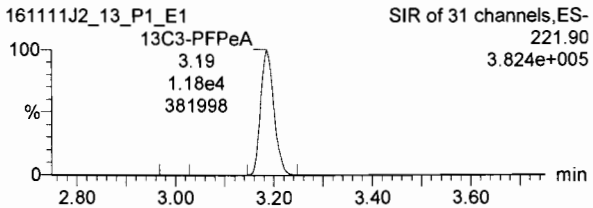
PFBS



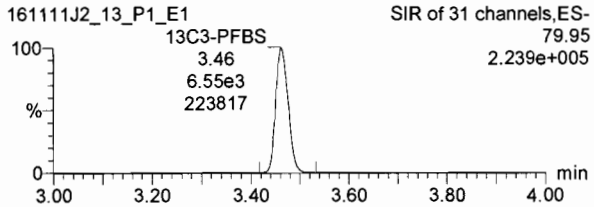
13C3-PFBA



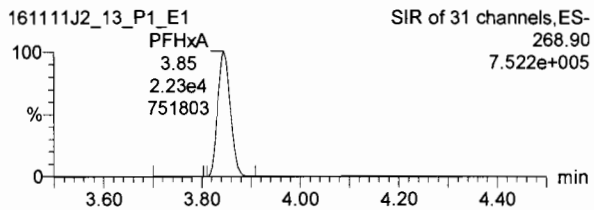
13C3-PFPeA



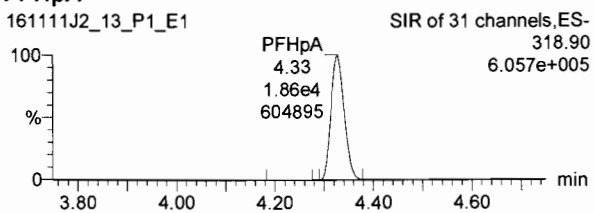
13C3-PFBS



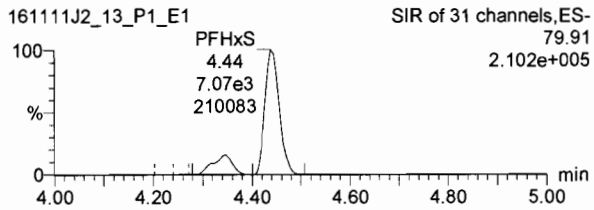
PFHxA



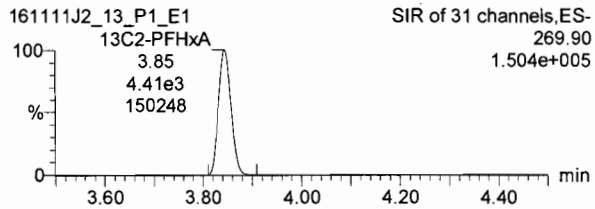
PFHpA



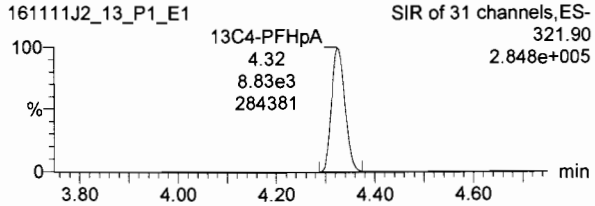
PFHxS



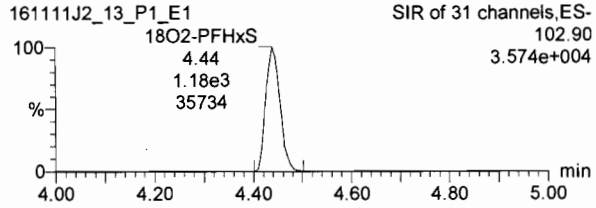
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

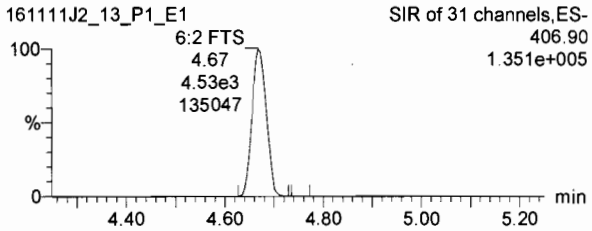


Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

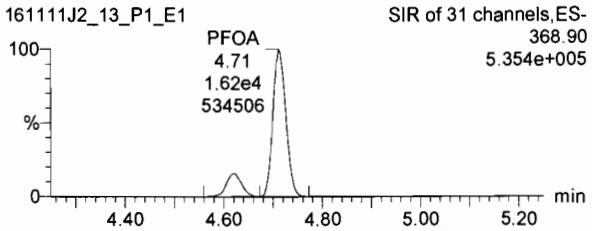
Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:42 Pacific Standard Time

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

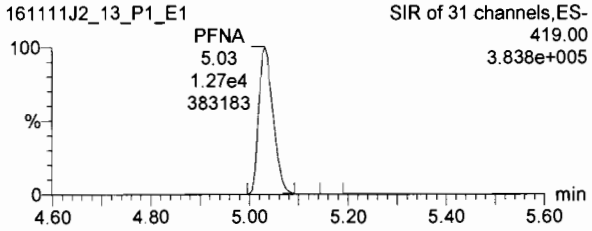
6:2 FTS



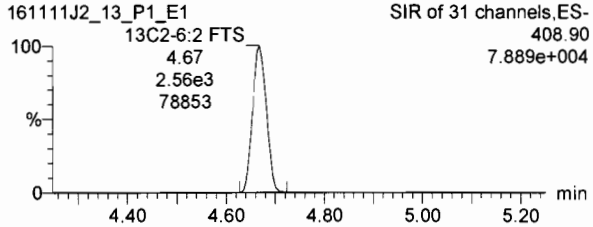
PFOA



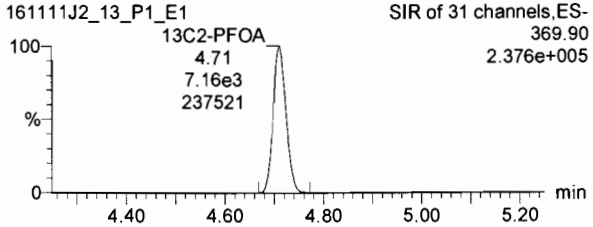
PFNA



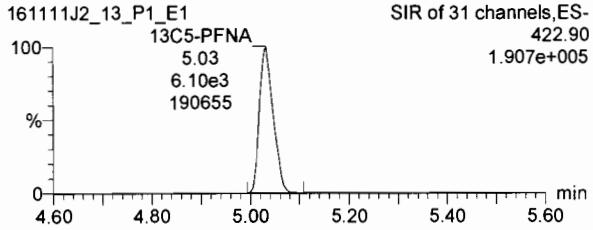
13C2-6:2 FTS



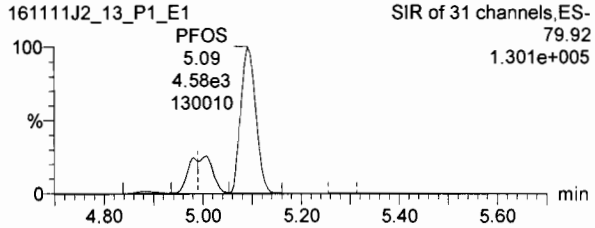
13C2-PFOA



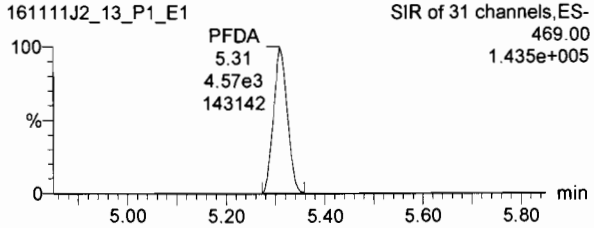
13C5-PFNA



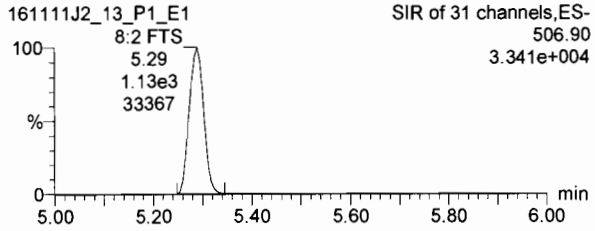
PFOS



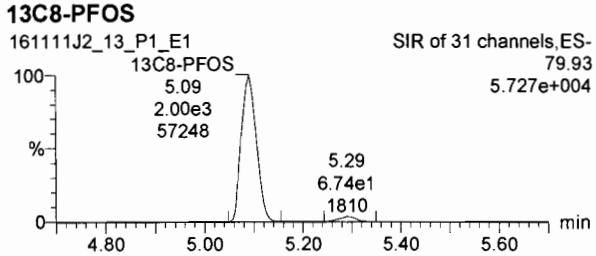
PFDA



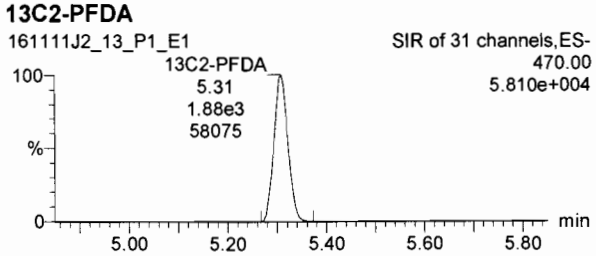
8:2 FTS



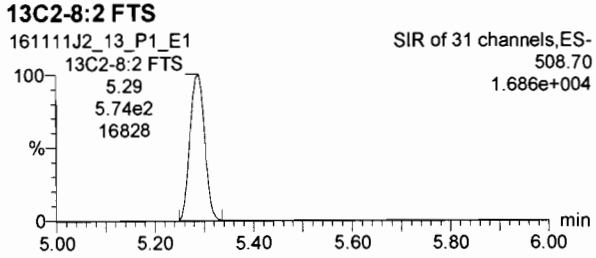
13C8-PFOS



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	6.49e3		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

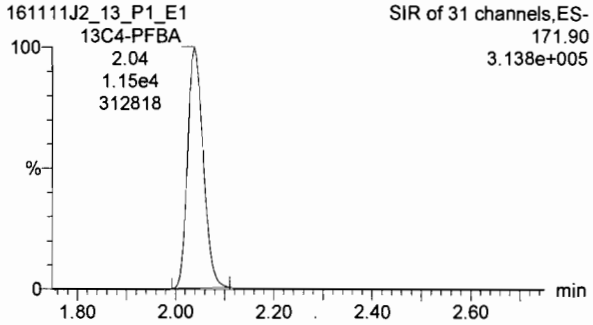
NUM

Dataset: U:\Q2.PRO\Results\161112J2\161111J2_13.qld

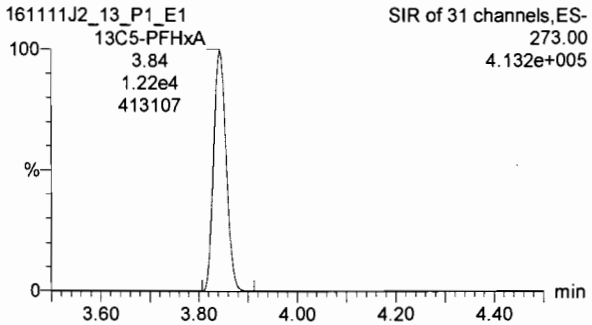
Last Altered: Saturday, November 12, 2016 10:56:35 Pacific Standard Time
Printed: Saturday, November 12, 2016 10:57:42 Pacific Standard Time

Name: 161111J2_13.wiff, Date: 11-Nov-2016, Time: 18:54:07, ID: SS161111J2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

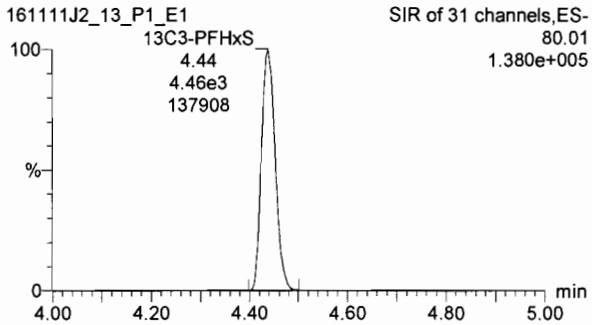
13C4-PFBA



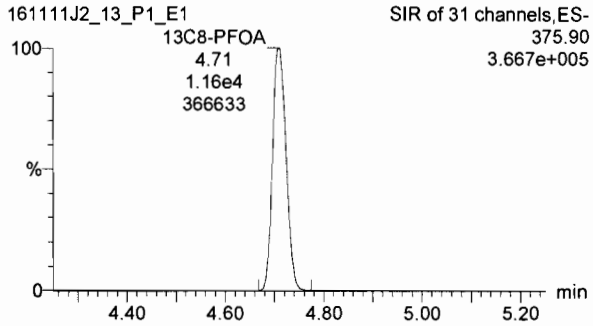
13C5-PFHxA



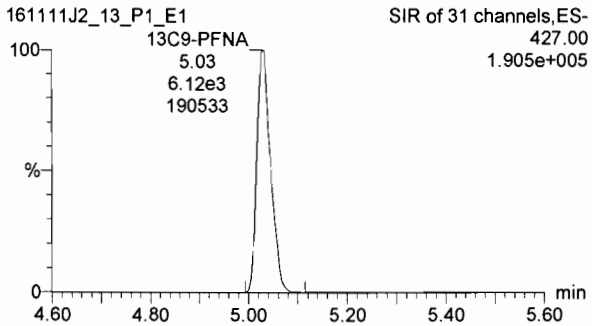
13C3-PFHxS



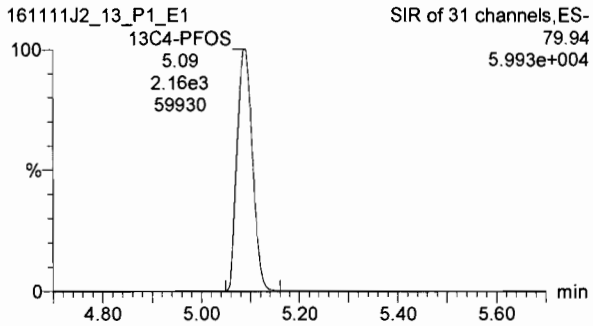
13C8-PFOA



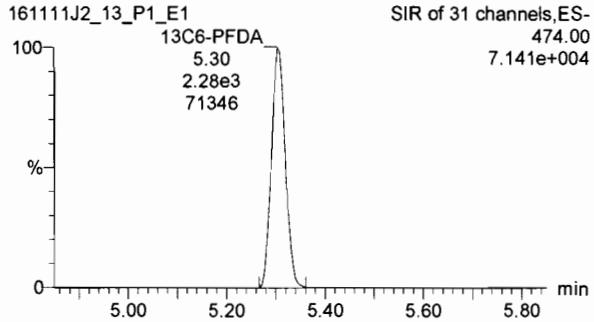
13C9-PFNA



13C4-PFOS



13C6-PFDA



Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:26:39 Pacific Standard Time

Scanned KC 11-14-16

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Compound name: PFBS
Correlation coefficient: r = 0.993420, r^2 = 0.986884
Calibration curve: 1.36557 * x + 0.119712
Response type: Internal Std (Ref 9), 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 161113G1_3	0.500	3.25	5.89e2	8.09e3	0.578	1.82	15.6
2	2 161113G1_4	1.00	3.25	1.12e3	9.40e3	1.00	1.48	-0.0
3	3 161113G1_5	2.00	3.25	1.80e3	9.15e3	1.72	1.23	-14.2
4	4 161113G1_6	5.00	3.25	3.80e3	8.99e3	3.78	1.06	-24.4
5	5 161113G1_7	10.0	3.25	1.05e4	8.47e3	11.3	1.55	12.6
6	6 161113G1_8	25.0	3.25	2.26e4	6.85e3	30.1	1.65	20.2
7	7 161113G1_9	50.0	3.25	4.08e4	8.27e3	45.1	1.23	-9.9
8	8 161113G1_10	75.0	3.25	5.89e4	7.17e3	75.1	1.37	0.1

AC 11/14/16

PW 11/14/16

PFDA excluded from CS(-1).

Compound name: PFHxA
Correlation coefficient: r = 0.992075, r^2 = 0.984213
Calibration curve: 0.533409 * x + 0.0903449
Response type: Internal Std (Ref 10), 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 161113G1_3	0.500	3.64	7.85e2	9.91e3	0.573	0.792	14.6
2	2 161113G1_4	1.00	3.64	1.18e3	1.02e4	0.914	0.578	-8.6
3	3 161113G1_5	2.00	3.64	2.03e3	1.06e4	1.63	0.480	-18.5
4	4 161113G1_6	5.00	3.64	4.71e3	1.06e4	4.01	0.445	-19.9
5	5 161113G1_7	10.0	3.64	1.22e4	9.51e3	11.8	0.641	18.4
6	6 161113G1_8	25.0	3.65	2.79e4	8.36e3	31.1	0.666	24.3
7	7 161113G1_9	50.0	3.65	5.23e4	1.03e4	47.5	0.509	-4.9
8	8 161113G1_10	75.0	3.64	7.02e4	9.25e3	70.9	0.506	-5.4

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Compound name: PFHpA
Correlation coefficient: r = 0.993436, r^2 = 0.986915
Calibration curve: 1.19442 * x + 0.171662
Response type: Internal Std (Ref 11), 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 161113G1_3	0.500	4.14	1.77e3	2.62e4	0.564	1.69	12.8
2	2 161113G1_4	1.00	4.14	3.12e3	2.87e4	0.995	1.36	-0.5
3	3 161113G1_5	2.00	4.14	4.34e3	2.54e4	1.65	1.07	-17.7
4	4 161113G1_6	5.00	4.14	1.15e4	2.79e4	4.16	1.03	-16.9
5	5 161113G1_7	10.0	4.14	2.94e4	2.82e4	10.8	1.30	7.8
6	6 161113G1_8	25.0	4.14	6.90e4	2.32e4	31.0	1.49	24.1
7	7 161113G1_9	50.0	4.14	1.21e5	2.69e4	46.8	1.12	-6.3
8	8 161113G1_10	75.0	4.14	1.81e5	2.60e4	72.5	1.16	-3.3

Compound name: PFHxS
Correlation coefficient: r = 0.992500, r^2 = 0.985056
Calibration curve: 1.30086 * x + 0.139374
Response type: Internal Std (Ref 12), 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 161113G1_3	0.500	4.25	5.42e2	7.72e3	0.568	1.76	13.5
2	2 161113G1_4	1.00	4.25	9.58e2	8.16e3	1.02	1.47	2.1
3	3 161113G1_5	2.00	4.25	1.31e3	7.55e3	1.56	1.09	-21.8
4	4 161113G1_6	5.00	4.25	3.64e3	8.23e3	4.14	1.11	-17.2
5	5 161113G1_7	10.0	4.25	8.85e3	7.97e3	10.6	1.39	5.7
6	6 161113G1_8	25.0	4.25	2.06e4	6.31e3	31.2	1.63	25.0
7	7 161113G1_9	50.0	4.25	4.08e4	7.78e3	50.3	1.31	0.5
8	8 161113G1_10	75.0	4.25	5.67e4	7.87e3	69.1	1.20	-7.8

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Compound name: PFOA
Correlation coefficient: r = 0.995660, r^2 = 0.991339
Calibration curve: 0.800305 * x + 0.222058
Response type: Internal Std (Ref 13), 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 161113G1_3	0.500	4.52	2.17e3	3.88e4	0.597	1.40	19.4
2	2 161113G1_4	1.00	4.52	3.09e3	4.05e4	0.913	0.953	-8.7
3	3 161113G1_5	2.00	4.52	4.41e3	3.73e4	1.57	0.739	-21.6
4	4 161113G1_6	5.00	4.52	1.16e4	3.92e4	4.34	0.739	-13.3
5	5 161113G1_7	10.0	4.52	3.02e4	4.06e4	11.3	0.930	13.5
6	6 161113G1_8	25.0	4.53	6.61e4	3.49e4	29.3	0.946	17.1
7	7 161113G1_9	50.0	4.53	1.28e5	4.02e4	49.3	0.793	-1.4
8	8 161113G1_10	75.0	4.52	1.76e5	3.84e4	71.2	0.762	-5.1

Compound name: PFOS
Correlation coefficient: r = 0.997531, r^2 = 0.995068
Calibration curve: 0.727385 * x + -0.0835443
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 161113G1_3	0.500	4.90	1.13e2	4.68e3	0.530	0.604	6.0
2	2 161113G1_4	1.00	4.90	3.80e2	6.90e3	1.06	0.688	6.1
3	3 161113G1_5	2.00	4.90	4.73e2	5.54e3	1.58	0.533	-20.9
4	4 161113G1_6	5.00	4.90	1.88e3	7.02e3	4.72	0.670	-5.6
5	5 161113G1_7	10.0	4.90	4.12e3	6.81e3	10.5	0.757	5.2
6	6 161113G1_8	25.0	4.90	8.64e3	5.23e3	28.5	0.826	14.0
7	7 161113G1_9	50.0	4.90	2.19e4	7.58e3	49.7	0.721	-0.6
8	8 161113G1_10	75.0	4.90	3.43e4	8.21e3	71.9	0.696	-4.1

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Compound name: PFNA
Correlation coefficient: r = 0.991334, r^2 = 0.982742
Calibration curve: 1.58768 * x + 0.131445
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

A excluded

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	0.500	4.85	1.03e3	1.32e4	0.531	1.95	6.3
2	2 161113G1_4	1.00	4.85	2.07e3	1.46e4	1.03	1.77	3.3
3	3 161113G1_5	2.00	4.85	3.03e3	1.48e4	1.53	1.28	-23.7
4	4 161113G1_6	5.00	4.85	8.54e3	1.56e4	4.23	1.37	-15.3
5	5 161113G1_7	10.0	4.85	2.13e4	1.40e4	11.9	1.90	18.8
6	6 161113G1_8	25.0	4.85	4.61e4	1.18e4	30.8	1.96	23.3
7	7 161113G1_9	50.0	4.85	9.20e4	1.64e4	44.0	1.40	-12.0
8	8 161113G1_10	75.0	4.85	1.43e5	1.51e4	74.5	1.58	-0.7

Compound name: PFDA
Correlation coefficient: r = 0.993024, r^2 = 0.986097
Calibration curve: 0.548079 * x + 0.0475241
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.	RRF	%Dev
1	1 161113G1_3	0.500	5.13	2.19e2	7.36e3	0.591	0.743	18.2 A
2	2 161113G1_4	1.00	5.13	6.97e2	1.15e4	1.30	0.760	30.0
3	3 161113G1_5	2.00	5.13	8.00e2	9.53e3	1.83	0.525	-8.6
4	4 161113G1_6	5.00	5.13	1.91e3	1.13e4	3.78	0.424	-24.4
5	5 161113G1_7	10.0	5.13	5.15e3	1.12e4	10.4	0.575	4.0
6	6 161113G1_8	25.0	5.13	9.45e3	6.91e3	31.1	0.684	24.5
7	7 161113G1_9	50.0	5.13	2.99e4	1.40e4	48.6	0.534	-2.7
8	8 161113G1_10	75.0	5.13	4.77e4	1.53e4	70.9	0.519	-5.4

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Compound name: 13C3-PFBS
Response Factor: 0.249812
RRF SD: 0.0343471, Relative SD: 13.7492
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	3.25	8.09e3	3.80e4	10.7	0.213	-14.8
2	2 161113G1_4	12.5	3.25	9.40e3	3.52e4	13.4	0.267	7.0
3	3 161113G1_5	12.5	3.25	9.15e3	3.20e4	14.3	0.286	14.6
4	4 161113G1_6	12.5	3.25	8.99e3	3.27e4	13.7	0.275	10.0
5	5 161113G1_7	12.5	3.25	8.47e3	3.23e4	13.1	0.263	5.2
6	6 161113G1_8	12.5	3.25	6.85e3	3.74e4	9.18	0.183	-26.6
7	7 161113G1_9	12.5	3.25	8.27e3	3.22e4	12.9	0.257	2.9
8	8 161113G1_10	12.5	3.25	7.17e3	2.82e4	12.7	0.254	1.7

Compound name: 13C2-PFHxA
Response Factor: 0.74126
RRF SD: 0.0946175, Relative SD: 12.7644
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	5.00	3.64	9.91e3	3.80e4	4.40	0.652	-12.1
2	2 161113G1_4	5.00	3.64	1.02e4	3.52e4	4.91	0.728	-1.8
3	3 161113G1_5	5.00	3.64	1.06e4	3.20e4	5.59	0.828	11.7
4	4 161113G1_6	5.00	3.64	1.06e4	3.27e4	5.45	0.808	9.0
5	5 161113G1_7	5.00	3.64	9.51e3	3.23e4	4.97	0.737	-0.6
6	6 161113G1_8	5.00	3.64	8.36e3	3.74e4	3.77	0.559	-24.5
7	7 161113G1_9	5.00	3.64	1.03e4	3.22e4	5.39	0.799	7.7
8	8 161113G1_10	5.00	3.64	9.25e3	2.82e4	5.53	0.819	10.5

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Compound name: 13C4-PFHpA
Response Factor: 2.07704
RRF SD: 0.223378, Relative SD: 10.7547
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.14	2.62e4	1.44e4	10.9	1.82	-12.5
2	2 161113G1_4	12.5	4.14	2.87e4	1.33e4	13.0	2.15	3.7
3	3 161113G1_5	12.5	4.14	2.54e4	1.22e4	12.5	2.08	0.4
4	4 161113G1_6	12.5	4.14	2.79e4	1.23e4	13.6	2.27	9.2
5	5 161113G1_7	12.5	4.14	2.82e4	1.32e4	12.8	2.13	2.7
6	6 161113G1_8	12.5	4.14	2.32e4	1.40e4	9.98	1.66	-20.2
7	7 161113G1_9	12.5	4.14	2.69e4	1.21e4	13.4	2.23	7.5
8	8 161113G1_10	12.5	4.14	2.60e4	1.15e4	13.6	2.27	9.2

Compound name: 18O2-PFHxS
Response Factor: 0.602831
RRF SD: 0.0762623, Relative SD: 12.6507
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.24	7.72e3	1.44e4	11.1	0.536	-11.1
2	2 161113G1_4	12.5	4.24	8.16e3	1.33e4	12.7	0.613	1.7
3	3 161113G1_5	12.5	4.24	7.55e3	1.22e4	12.9	0.620	2.9
4	4 161113G1_6	12.5	4.24	8.23e3	1.23e4	13.8	0.668	10.8
5	5 161113G1_7	12.5	4.24	7.97e3	1.32e4	12.5	0.603	0.1
6	6 161113G1_8	12.5	4.25	6.31e3	1.40e4	9.36	0.451	-25.1
7	7 161113G1_9	12.5	4.25	7.78e3	1.21e4	13.4	0.645	7.0
8	8 161113G1_10	12.5	4.25	7.87e3	1.15e4	14.2	0.686	13.8

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Compound name: 13C2-PFOA
Response Factor: 2.43832
RRF SD: 0.272715, Relative SD: 11.1845
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.52	3.88e4	1.72e4	11.6	2.25	-7.6
2	2 161113G1_4	12.5	4.52	4.05e4	1.60e4	12.9	2.52	3.5
3	3 161113G1_5	12.5	4.52	3.73e4	1.33e4	14.4	2.81	15.0
4	4 161113G1_6	12.5	4.52	3.92e4	1.56e4	12.9	2.51	2.9
5	5 161113G1_7	12.5	4.52	4.06e4	1.65e4	12.6	2.47	1.1
6	6 161113G1_8	12.5	4.53	3.49e4	1.86e4	9.64	1.88	-22.9
7	7 161113G1_9	12.5	4.53	4.02e4	1.63e4	12.7	2.47	1.3
8	8 161113G1_10	12.5	4.52	3.84e4	1.48e4	13.3	2.60	6.6

Compound name: 13C8-PFOS
Response Factor: 1.05531
RRF SD: 0.151169, Relative SD: 14.3247
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.90	4.68e3	5.56e3	9.97	0.842	-20.2
2	2 161113G1_4	12.5	4.90	6.90e3	5.89e3	13.9	1.17	10.9
3	3 161113G1_5	12.5	4.90	5.54e3	4.99e3	13.2	1.11	5.3
4	4 161113G1_6	12.5	4.90	7.02e3	6.24e3	13.3	1.12	6.5
5	5 161113G1_7	12.5	4.90	6.81e3	5.41e3	14.9	1.26	19.3
6	6 161113G1_8	12.5	4.90	5.23e3	6.09e3	10.2	0.859	-18.6
7	7 161113G1_9	12.5	4.90	7.58e3	7.91e3	11.4	0.959	-9.2
8	8 161113G1_10	12.5	4.90	8.21e3	7.34e3	13.2	1.12	6.0

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Compound name: 13C5-PFNA
Response Factor: 1.15772
RRF SD: 0.162288, Relative SD: 14.0179
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.85	1.32e4	1.33e4	10.8	0.996	-14.0
2	2 161113G1_4	12.5	4.85	1.46e4	1.31e4	12.1	1.12	-3.4
3	3 161113G1_5	12.5	4.85	1.48e4	1.14e4	14.0	1.30	12.0
4	4 161113G1_6	12.5	4.85	1.56e4	1.21e4	13.9	1.28	10.8
5	5 161113G1_7	12.5	4.85	1.40e4	1.18e4	12.8	1.19	2.4
6	6 161113G1_8	12.5	4.85	1.18e4	1.38e4	9.23	0.855	-26.2
7	7 161113G1_9	12.5	4.85	1.64e4	1.25e4	14.3	1.32	14.0
8	8 161113G1_10	12.5	4.85	1.51e4	1.25e4	13.0	1.21	4.3

Compound name: 13C2-PFDA
Response Factor: 1.16403
RRF SD: 0.192878, Relative SD: 16.5699
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	5.13	7.36e3	7.75e3	10.2	0.950	-18.4
2	2 161113G1_4	12.5	5.13	1.15e4	1.02e4	12.1	1.13	-3.3
3	3 161113G1_5	12.5	5.13	9.53e3	7.68e3	13.3	1.24	6.6
4	4 161113G1_6	12.5	5.13	1.13e4	9.51e3	12.7	1.18	1.8
5	5 161113G1_7	12.5	5.13	1.12e4	8.53e3	14.1	1.31	12.8
6	6 161113G1_8	12.5	5.13	6.91e3	8.46e3	8.77	0.817	-29.8
7	7 161113G1_9	12.5	5.13	1.40e4	1.06e4	14.1	1.32	13.2
8	8 161113G1_10	12.5	5.13	1.53e4	1.12e4	14.7	1.37	17.3

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Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 8.3925e-017, Relative SD: 8.3925e-015
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1	161113G1_3	12.5	3.64	3.80e4	3.80e4	12.5	1.00	0.0
2	2	161113G1_4	12.5	3.64	3.52e4	3.52e4	12.5	1.00	0.0
3	3	161113G1_5	12.5	3.64	3.20e4	3.20e4	12.5	1.00	0.0
4	4	161113G1_6	12.5	3.64	3.27e4	3.27e4	12.5	1.00	0.0
5	5	161113G1_7	12.5	3.64	3.23e4	3.23e4	12.5	1.00	0.0
6	6	161113G1_8	12.5	3.64	3.74e4	3.74e4	12.5	1.00	0.0
7	7	161113G1_9	12.5	3.64	3.22e4	3.22e4	12.5	1.00	0.0
8	8	161113G1_10	12.5	3.64	2.82e4	2.82e4	12.5	1.00	0.0

Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 4.19625e-017, Relative SD: 4.19625e-015
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1	161113G1_3	12.5	4.24	1.44e4	1.44e4	12.5	1.00	0.0
2	2	161113G1_4	12.5	4.24	1.33e4	1.33e4	12.5	1.00	0.0
3	3	161113G1_5	12.5	4.24	1.22e4	1.22e4	12.5	1.00	0.0
4	4	161113G1_6	12.5	4.25	1.23e4	1.23e4	12.5	1.00	0.0
5	5	161113G1_7	12.5	4.25	1.32e4	1.32e4	12.5	1.00	-0.0
6	6	161113G1_8	12.5	4.25	1.40e4	1.40e4	12.5	1.00	0.0
7	7	161113G1_9	12.5	4.25	1.21e4	1.21e4	12.5	1.00	0.0
8	8	161113G1_10	12.5	4.25	1.15e4	1.15e4	12.5	1.00	0.0

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:26:39 Pacific Standard Time

Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.52	1.72e4	1.72e4	12.5	1.00	0.0
2	2 161113G1_4	12.5	4.52	1.60e4	1.60e4	12.5	1.00	0.0
3	3 161113G1_5	12.5	4.52	1.33e4	1.33e4	12.5	1.00	0.0
4	4 161113G1_6	12.5	4.52	1.56e4	1.56e4	12.5	1.00	0.0
5	5 161113G1_7	12.5	4.52	1.65e4	1.65e4	12.5	1.00	0.0
6	6 161113G1_8	12.5	4.52	1.86e4	1.86e4	12.5	1.00	0.0
7	7 161113G1_9	12.5	4.53	1.63e4	1.63e4	12.5	1.00	0.0
8	8 161113G1_10	12.5	4.52	1.48e4	1.48e4	12.5	1.00	0.0

Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.90	5.56e3	5.56e3	12.5	1.00	0.0
2	2 161113G1_4	12.5	4.90	5.89e3	5.89e3	12.5	1.00	0.0
3	3 161113G1_5	12.5	4.90	4.99e3	4.99e3	12.5	1.00	0.0
4	4 161113G1_6	12.5	4.90	6.24e3	6.24e3	12.5	1.00	0.0
5	5 161113G1_7	12.5	4.90	5.41e3	5.41e3	12.5	1.00	0.0
6	6 161113G1_8	12.5	4.90	6.09e3	6.09e3	12.5	1.00	0.0
7	7 161113G1_9	12.5	4.90	7.91e3	7.91e3	12.5	1.00	0.0
8	8 161113G1_10	12.5	4.90	7.34e3	7.34e3	12.5	1.00	0.0

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:26:39 Pacific Standard Time

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 8.3925e-017, Relative SD: 8.3925e-015
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	4.85	1.33e4	1.33e4	12.5	1.00	0.0
2	2 161113G1_4	12.5	4.85	1.31e4	1.31e4	12.5	1.00	0.0
3	3 161113G1_5	12.5	4.85	1.14e4	1.14e4	12.5	1.00	0.0
4	4 161113G1_6	12.5	4.85	1.21e4	1.21e4	12.5	1.00	0.0
5	5 161113G1_7	12.5	4.85	1.18e4	1.18e4	12.5	1.00	0.0
6	6 161113G1_8	12.5	4.85	1.38e4	1.38e4	12.5	1.00	0.0
7	7 161113G1_9	12.5	4.85	1.25e4	1.25e4	12.5	1.00	0.0
8	8 161113G1_10	12.5	4.85	1.25e4	1.25e4	12.5	1.00	0.0

Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 9.3831e-017, Relative SD: 9.3831e-015
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161113G1_3	12.5	5.13	7.75e3	7.75e3	12.5	1.00	0.0
2	2 161113G1_4	12.5	5.13	1.02e4	1.02e4	12.5	1.00	0.0
3	3 161113G1_5	12.5	5.13	7.68e3	7.68e3	12.5	1.00	0.0
4	4 161113G1_6	12.5	5.13	9.51e3	9.51e3	12.5	1.00	0.0
5	5 161113G1_7	12.5	5.13	8.53e3	8.53e3	12.5	1.00	-0.0
6	6 161113G1_8	12.5	5.13	8.46e3	8.46e3	12.5	1.00	0.0
7	7 161113G1_9	12.5	5.13	1.06e4	1.06e4	12.5	1.00	0.0
8	8 161113G1_10	12.5	5.13	1.12e4	1.12e4	12.5	1.00	0.0

Quantify Compound Summary Report **MassLynx 4.1**
Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Monday, November 14, 2016 09:28:19 Pacific Standard Time
Printed: Monday, November 14, 2016 09:28:35 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	161113G1_1	IPA	13-Nov-16	11:09:29
2	161113G1_2	ST161113G1-1 PFC CS-2 16K1124	13-Nov-16	11:22:09
3	161113G1_3	ST161113G1-2 PFC CS-1 16K1125	13-Nov-16	11:34:46
4	161113G1_4	ST161113G1-3 PFC CS0 16K1126	13-Nov-16	11:47:22
5	161113G1_5	ST161113G1-4 PFC CS1 16K1127	13-Nov-16	12:00:00
6	161113G1_6	ST161113G1-5 PFC CS2 16K1128	13-Nov-16	12:12:39
7	161113G1_7	ST161113G1-6 PFC CS3 16K1129	13-Nov-16	12:25:17
8	161113G1_8	ST161113G1-7 PFC CS3.5 16K0923	13-Nov-16	12:37:58
9	161113G1_9	ST161113G1-8 PFC CS4 16K1130	13-Nov-16	12:50:37
10	161113G1_10	ST161113G1-9 PFC CS4.5 16K1131	13-Nov-16	13:03:18
11	161113G1_11	ST161113G1-10 PFC CS5 16K1132	13-Nov-16	13:15:55
12	161113G1_12	IPA	13-Nov-16	13:28:31
13	161113G1_13	SS161113G1-1 PFC SSS 16J1810	13-Nov-16	13:41:09
14	161113G1_14	B6K0053-BS1 OPR 0.125	13-Nov-16	13:53:48
15	161113G1_15	B6K0054-BS1 OPR 0.125	13-Nov-16	14:06:24
16	161113G1_16	B6K0054-BSD1 LCS Dup 0.125	13-Nov-16	14:19:01
17	161113G1_17	B6K0055-BS1 OPR 1	13-Nov-16	14:31:39
18	161113G1_18	IPA	13-Nov-16	14:44:17
19	161113G1_19	B6K0053-BLK1 Method Blank 0.125	13-Nov-16	14:56:54
20	161113G1_20	B6K0054-BLK1 Method Blank 0.125	13-Nov-16	15:09:33
21	161113G1_21	B6K0055-BLK1 Method Blank 1	13-Nov-16	15:22:08
22	161113G1_22	1601388-01 MW-BG07-1016 0.12618	13-Nov-16	15:34:43
23	161113G1_23	1601388-02 MW-BG06-1016 0.12354	13-Nov-16	15:47:19
24	161113G1_24	1601388-03 MW-BG05-1016 0.12746	13-Nov-16	15:59:55
25	161113G1_25	1601388-04 MW-BG05P-1016 0.1237	13-Nov-16	16:12:32
26	161113G1_26	1601388-05 MW-BG04-1016 0.13102	13-Nov-16	16:25:10
27	161113G1_27	1601388-06 OC-FB-102816 0.12776	13-Nov-16	16:37:48
28	161113G1_28	1601388-07 MW-BG01-1016 0.12279	13-Nov-16	16:50:26
29	161113G1_29	1601388-08 MW-BG09-1016 0.12536	13-Nov-16	17:03:01
30	161113G1_30	B6K0053-MS1 Matrix Spike 0.13008	13-Nov-16	17:15:36
31	161113G1_31	B6K0053-MSD1 Matrix Spike Dup 0.12486	13-Nov-16	17:28:12

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Monday, November 14, 2016 09:28:19 Pacific Standard Time
Printed: Monday, November 14, 2016 09:28:35 Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	161113G1_32	1601388-09 OC-MW04-1016 0.12595	13-Nov-16	17:40:48
33	161113G1_33	IPA	13-Nov-16	17:53:25
34	161113G1_34	ST161113G1-11 PFC CS3.5 16K0923	13-Nov-16	18:06:14
35	161113G1_35	IPA	13-Nov-16	18:18:52
36	161113G1_36	1601388-10 MW-BG11-1016 0.12196	13-Nov-16	18:31:31
37	161113G1_37	1601390-01 SP 4 0.12354	13-Nov-16	18:44:09
38	161113G1_38	1601390-02 SP 5 0.12756	13-Nov-16	18:56:47
39	161113G1_39	1601390-03 SP 6 0.12523	13-Nov-16	19:09:26
40	161113G1_40	1601390-04 102916-DUP 0.12766	13-Nov-16	19:22:01
41	161113G1_41	1601398-01 SW-NRES020-110116 0.12224	13-Nov-16	19:34:35
42	161113G1_42	1601399-01 860 SOUTH RD 0.12506	13-Nov-16	19:47:11
43	161113G1_43	1601382-02 AT028-SB15-102816-01-02 1	13-Nov-16	19:59:49
44	161113G1_44	1601382-03 AT028-SB15-102816-04-05 1	13-Nov-16	20:12:27
45	161113G1_45	1601382-04 AT028-SB16-102816-02-03 1	13-Nov-16	20:25:06
46	161113G1_46	IPA	13-Nov-16	20:37:46
47	161113G1_47	ST161113G1-12 PFC CS3.5 16K0923	13-Nov-16	20:50:25
48	161113G1_48	IPA	13-Nov-16	21:03:11

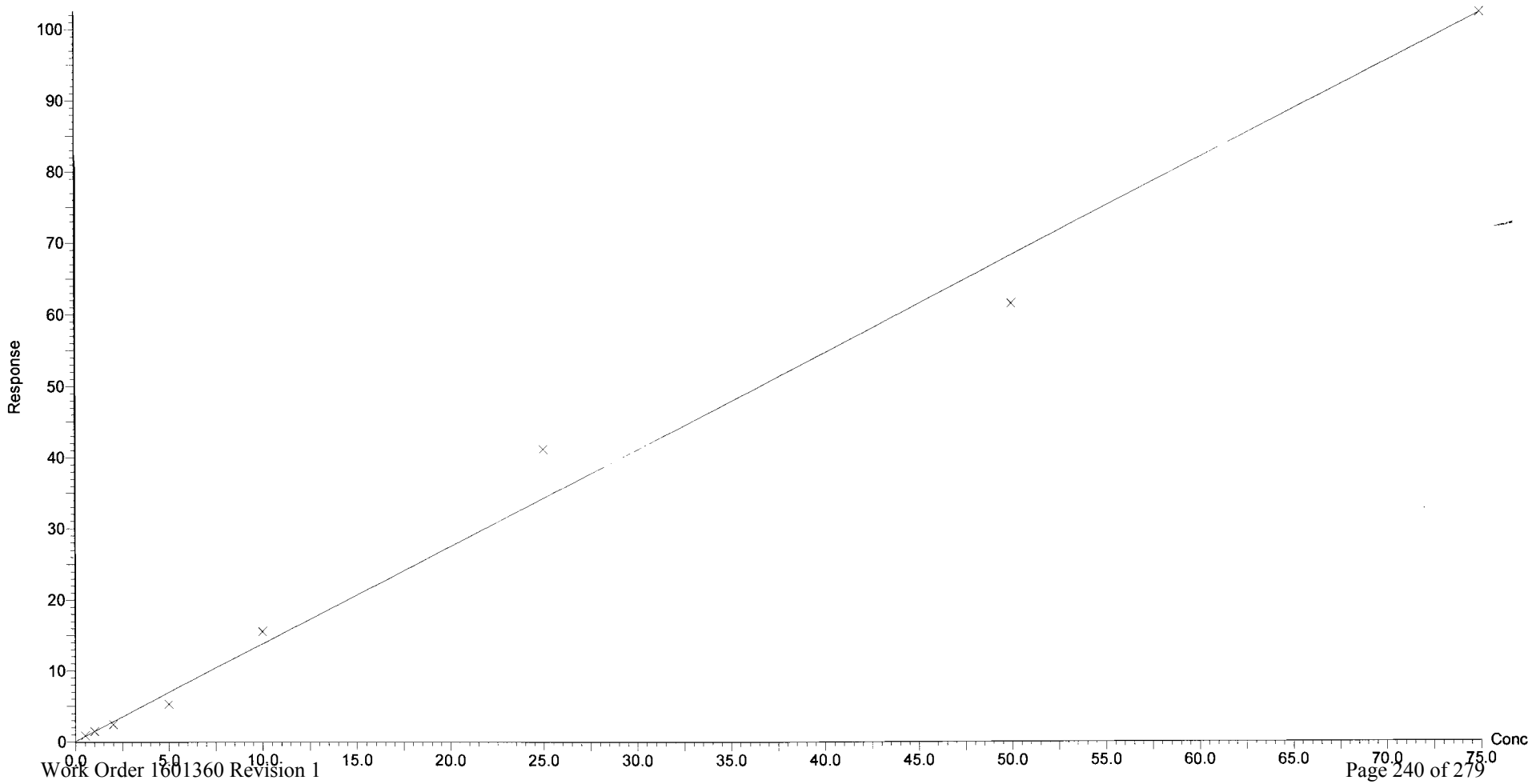
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

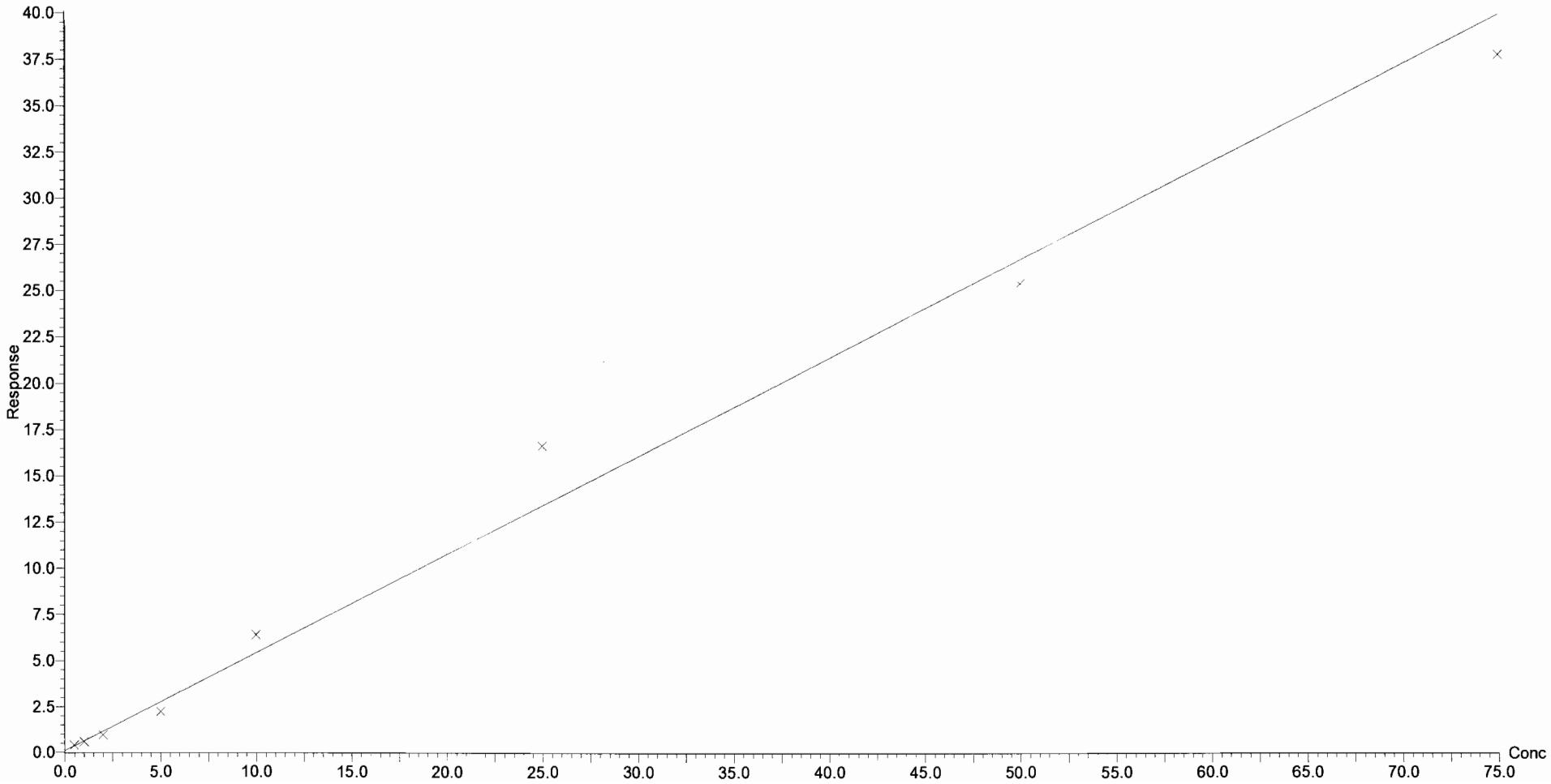
Compound name: PFBS
Correlation coefficient: r = 0.993420, r^2 = 0.986884
Calibration curve: 1.36557 * x + 0.119712
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

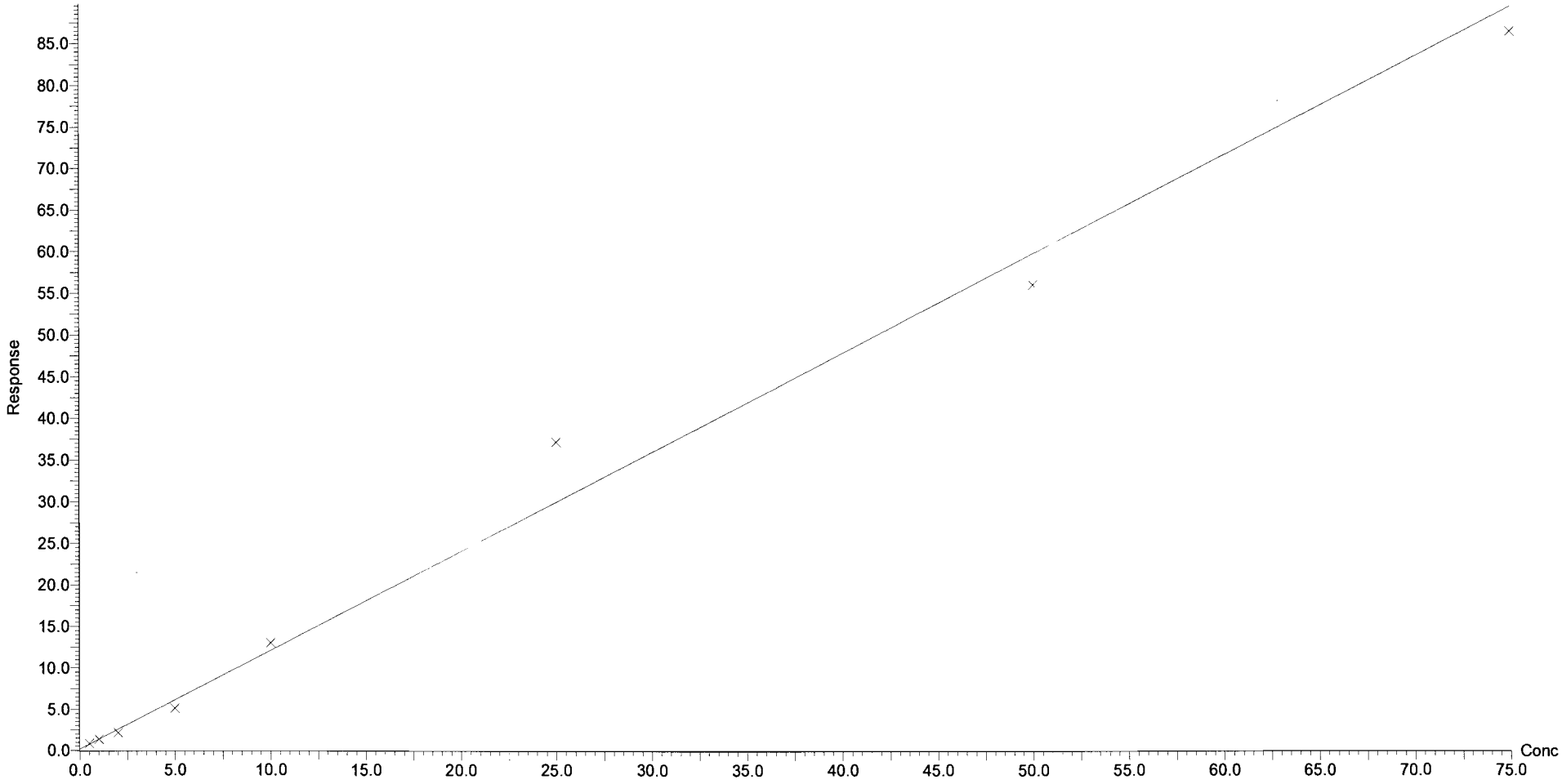
Compound name: PFHxA
Correlation coefficient: r = 0.992075, r^2 = 0.984213
Calibration curve: 0.533409 * x + 0.0903449
Response type: Internal Std (Ref 10), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

Compound name: PFHpA
Correlation coefficient: r = 0.993436, r^2 = 0.986915
Calibration curve: 1.19442 * x + 0.171662
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

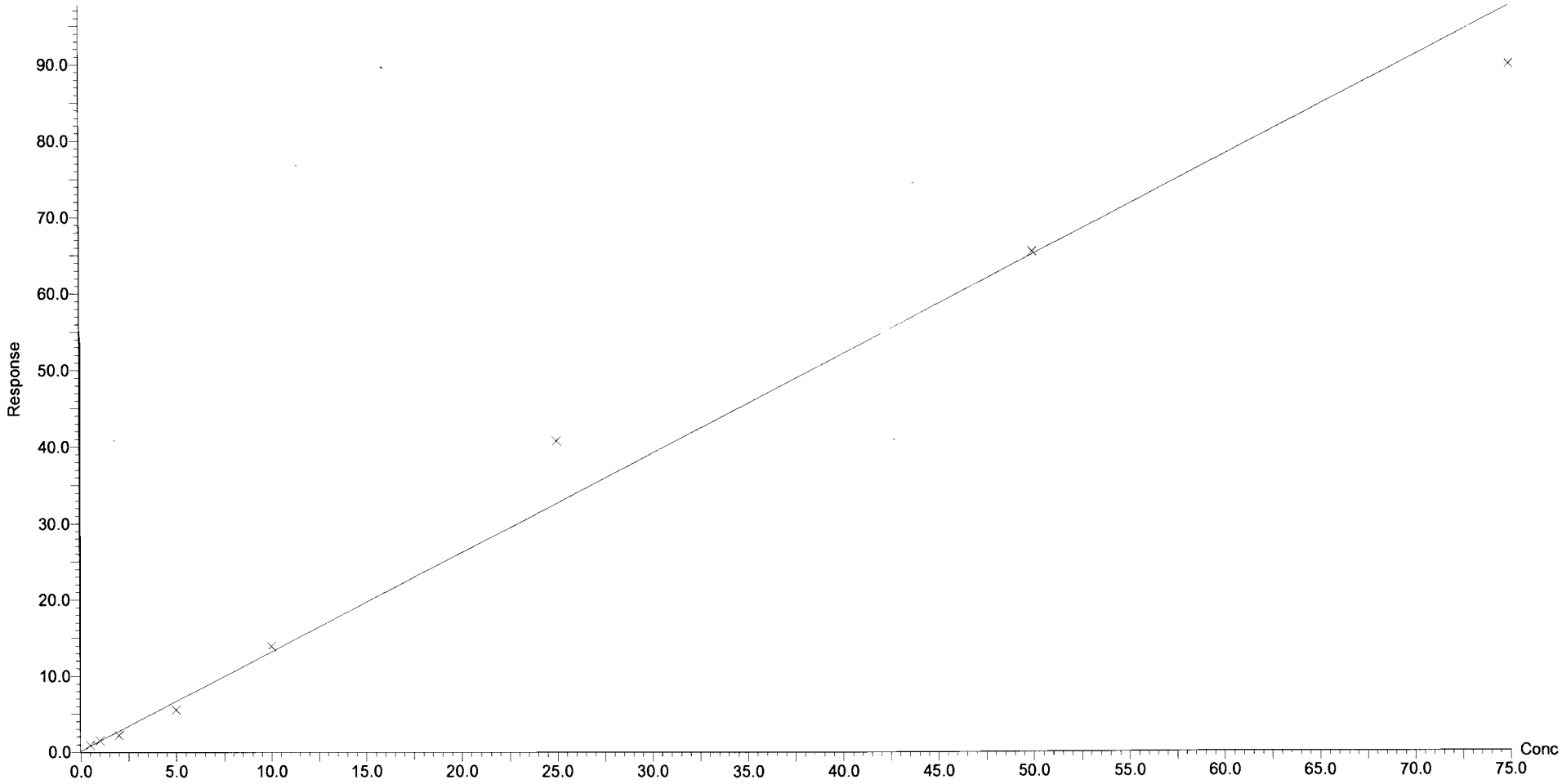


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

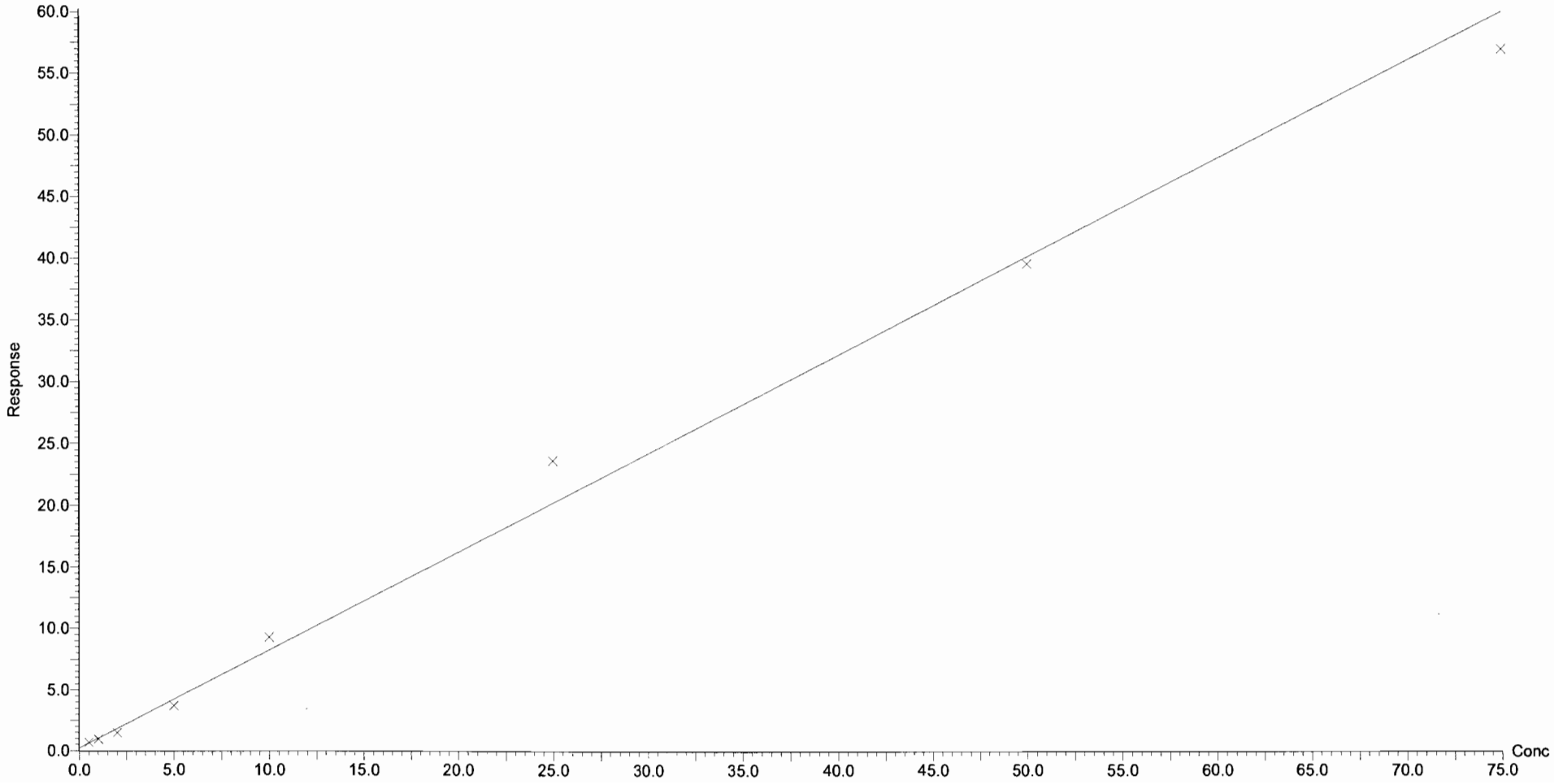
Compound name: PFHxS
Correlation coefficient: r = 0.992500, r^2 = 0.985056
Calibration curve: 1.30086 * x + 0.139374
Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

Compound name: PFOA
Correlation coefficient: r = 0.995660, r^2 = 0.991339
Calibration curve: 0.800305 * x + 0.222058
Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

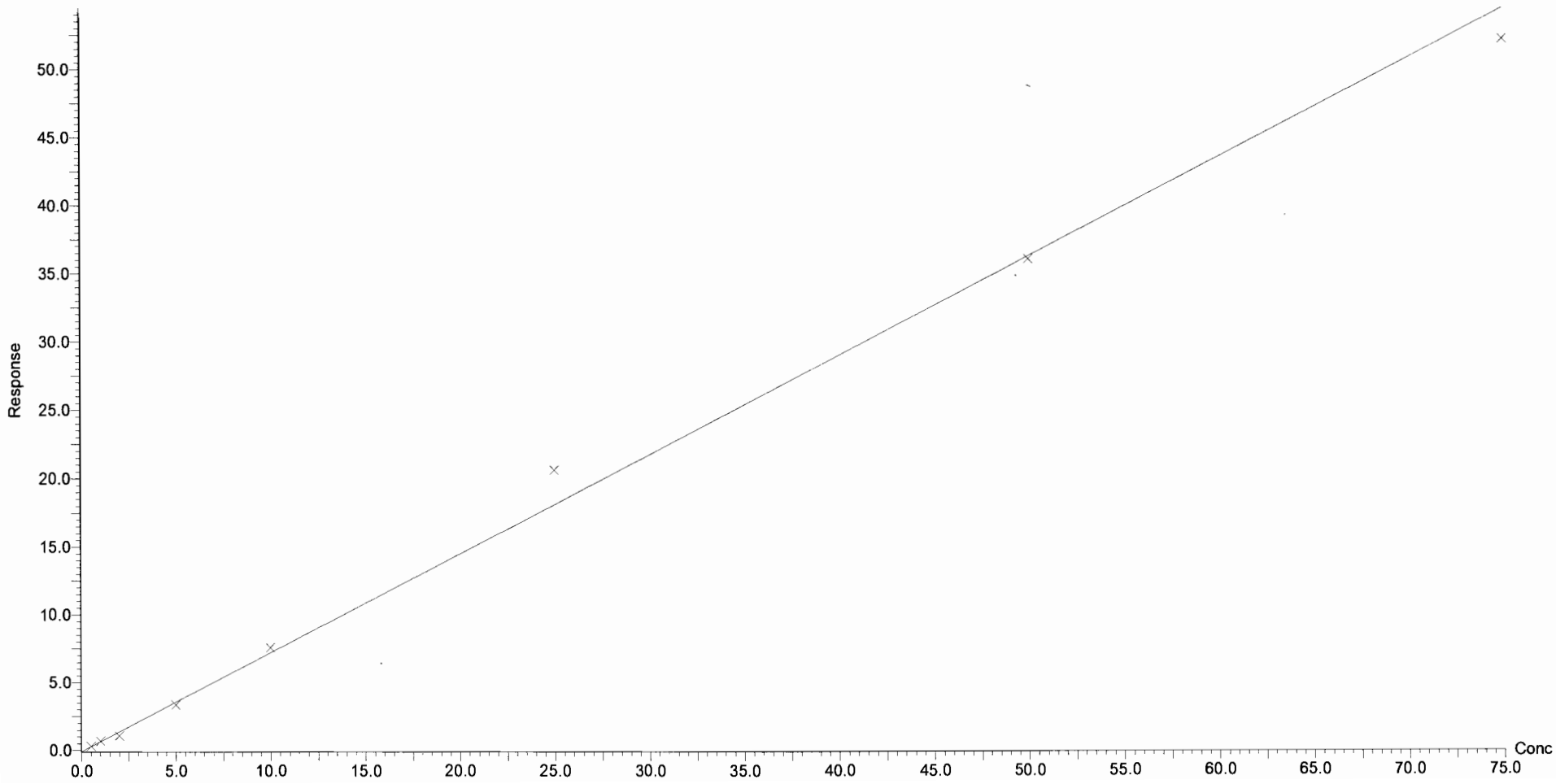


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

Compound name: PFOS
Correlation coefficient: r = 0.997531, r^2 = 0.995068
Calibration curve: 0.727385 * x + -0.0835443
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

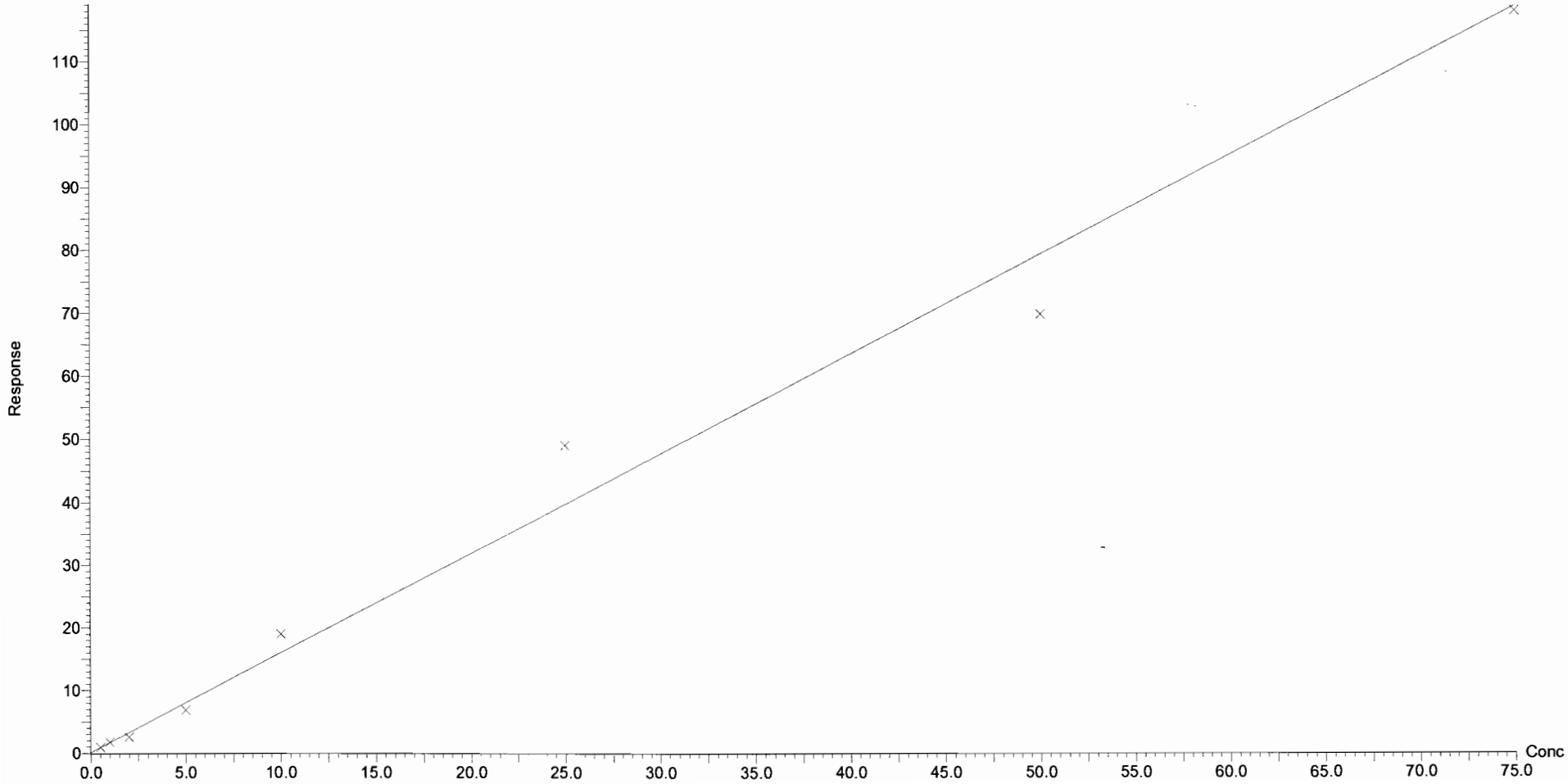


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

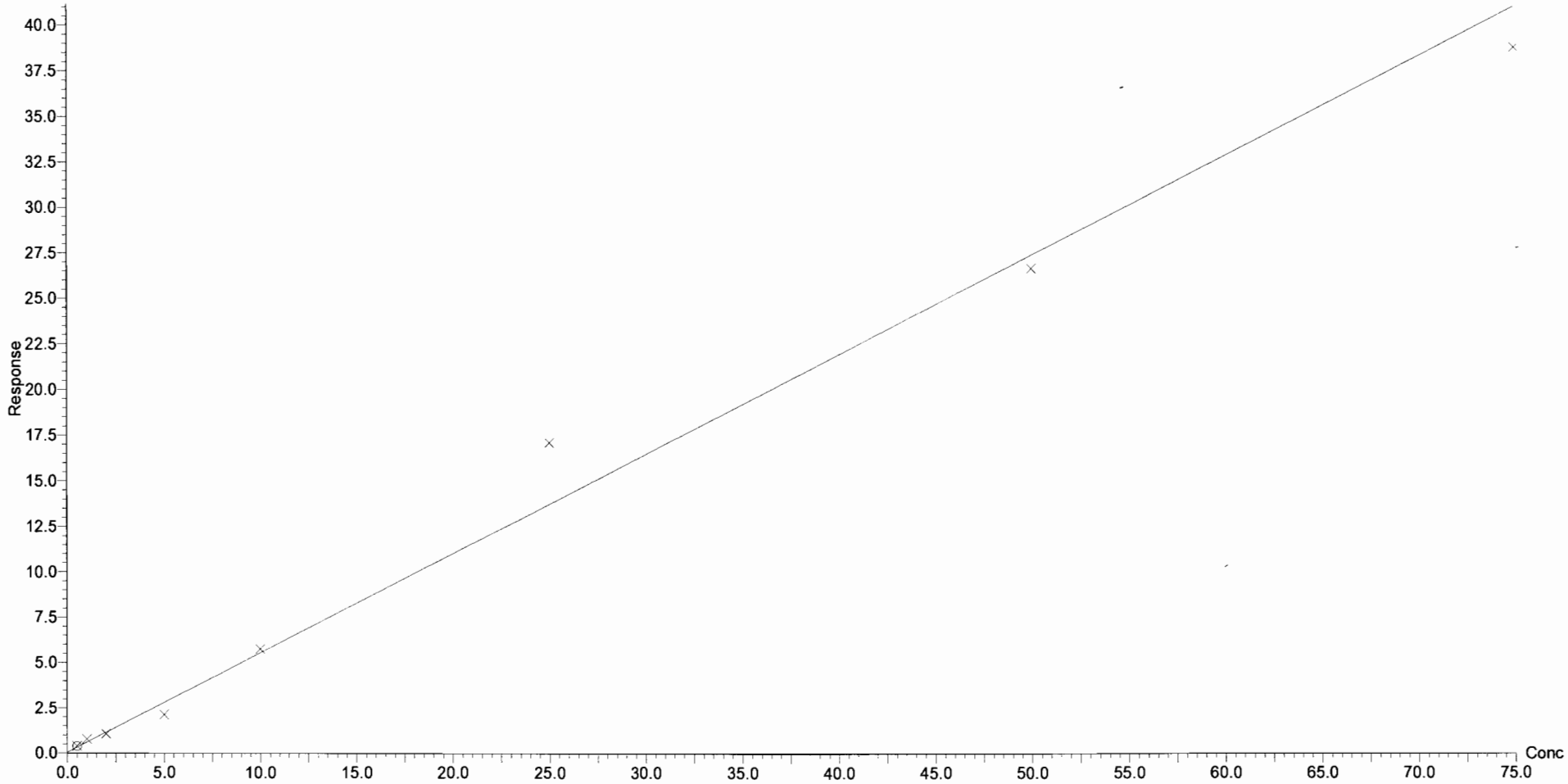
Compound name: PFNA
Correlation coefficient: r = 0.991334, r^2 = 0.982742
Calibration curve: 1.58768 * x + 0.131445
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-CRV.qld

Last Altered: Monday, November 14, 2016 09:22:23 Pacific Standard Time
Printed: Monday, November 14, 2016 09:25:20 Pacific Standard Time

Compound name: PFDA
Correlation coefficient: r = 0.993024, r^2 = 0.986097
Calibration curve: 0.548079 * x + 0.0475241
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

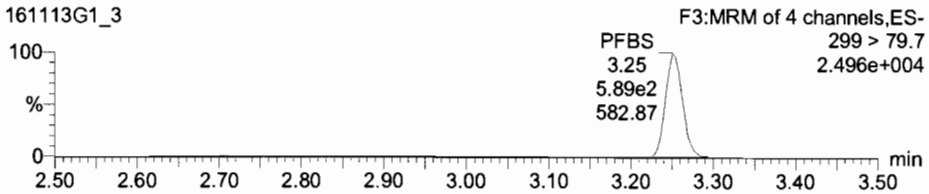
Dataset: Untitled

Last Altered: Monday, November 14, 2016 09:09:18 Pacific Standard Time
Printed: Monday, November 14, 2016 09:10:33 Pacific Standard Time

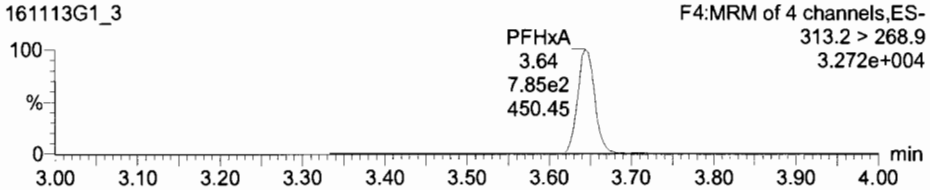
Method: U:\G1.PRO\MethDB\PFAS_14_A_LINEAR.mdb 11 Nov 2016 08:55:34
Calibration: 14 Nov 2016 09:09:17

Name: 161113G1_3, Date: 13-Nov-2016, Time: 11:34:46, ID: ST161113G1-2 PFC CS-1 16K1125, Description: PFC CS-1 16K1125 A

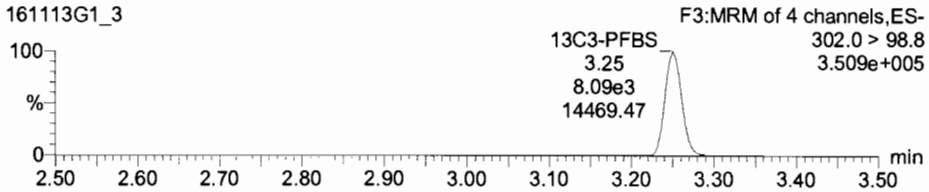
Total PFBS



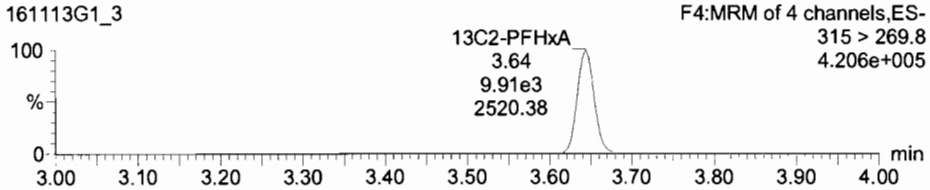
PFHxA



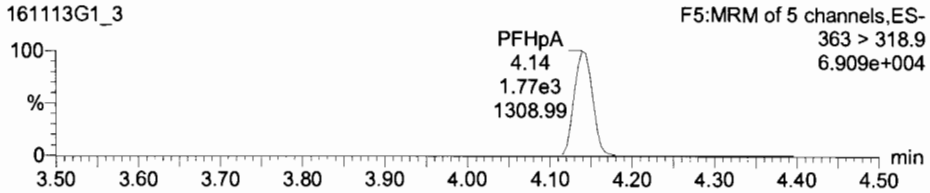
13C3-PFBS



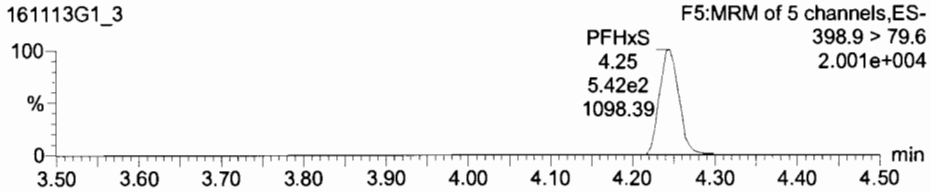
13C2-PFHxA



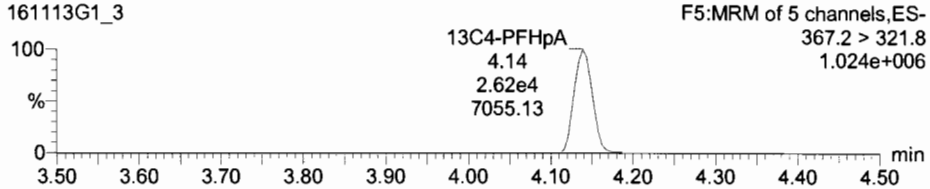
PFHpA



Total PFHxS



13C4-PFHpA



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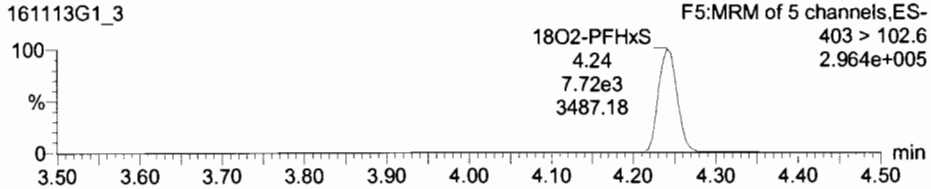

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Name: 161113G1_3, Date: 13-Nov-2016, Time: 11:34:46, ID: ST161113G1-2 PFC CS-1 16K1125, Description: PFC CS-1 16K1125 A

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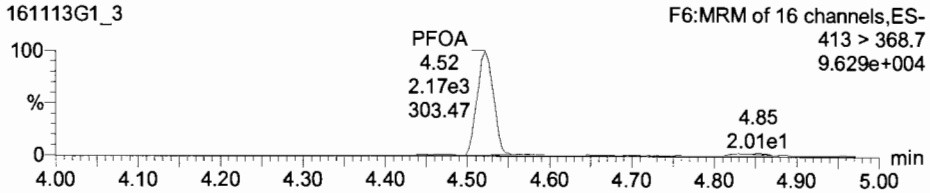

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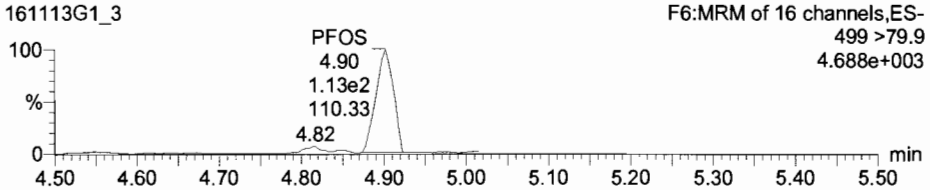

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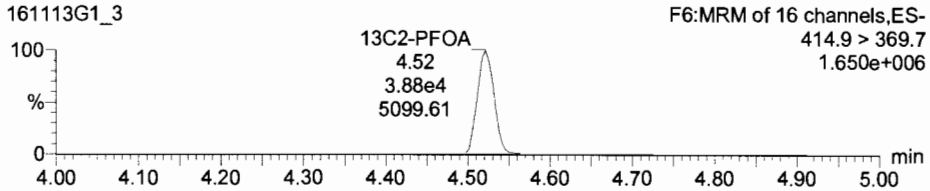

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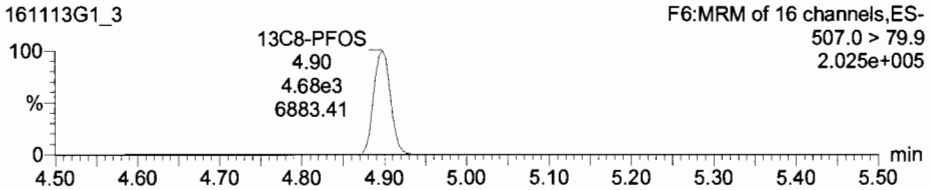

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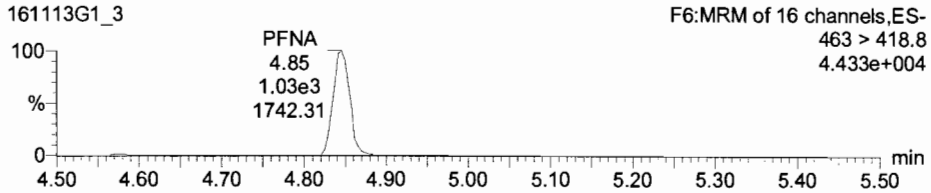

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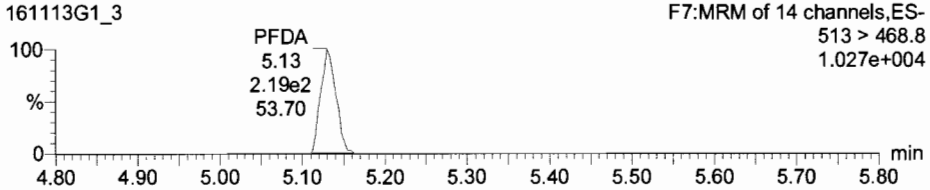
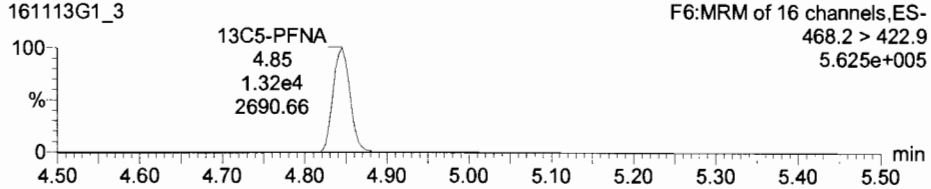


13C5-PFNA



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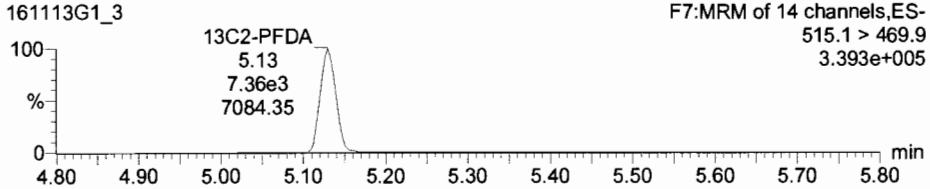

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Name: 161113G1_3, Date: 13-Nov-2016, Time: 11:34:46, ID: ST161113G1-2 PFC CS-1 16K1125, Description: PFC CS-1 16K1125 A

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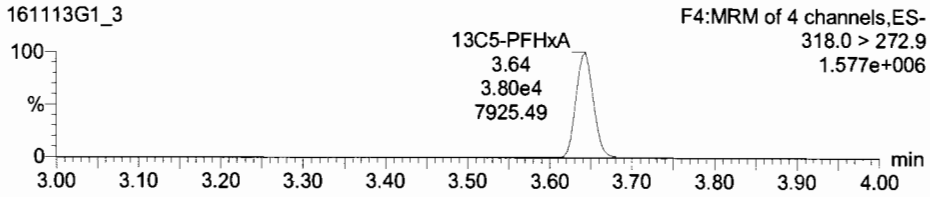

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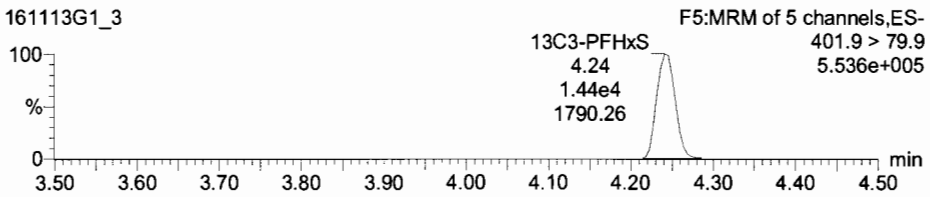

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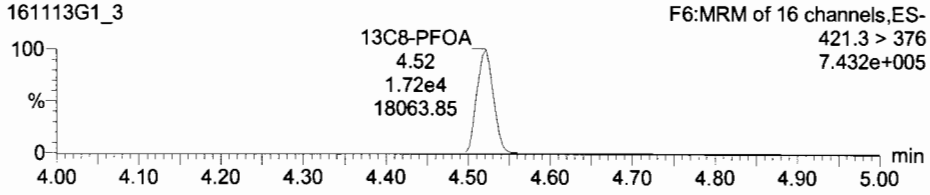

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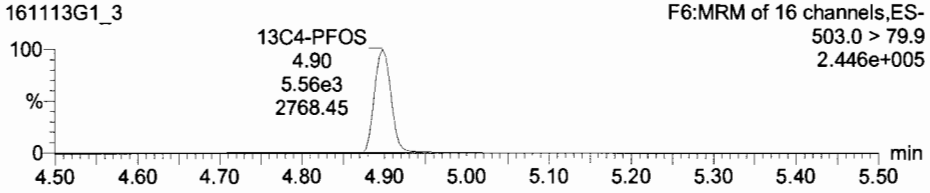

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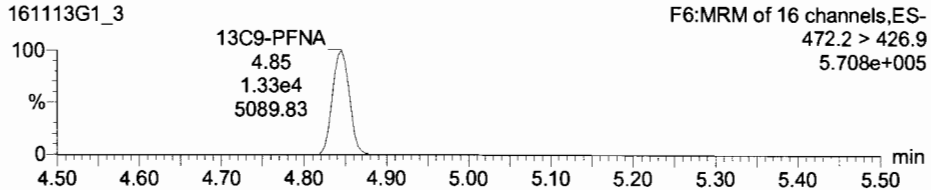
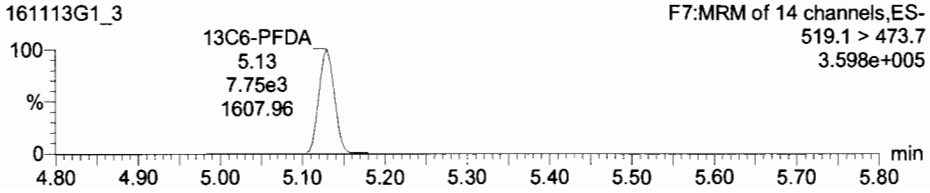


13C6-PFDA



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Name: 161113G1_4, Date: 13-Nov-2016, Time: 11:47:22, ID: ST161113G1-3 PFC CS0 16K1126, Description: PFC CS0 16K1126 A

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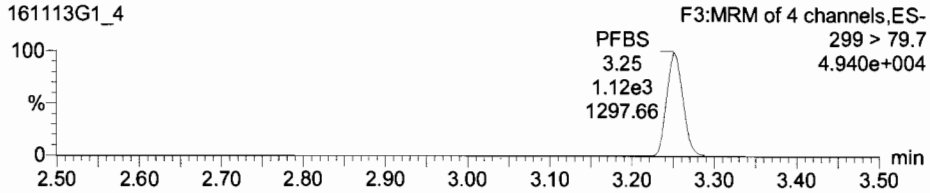

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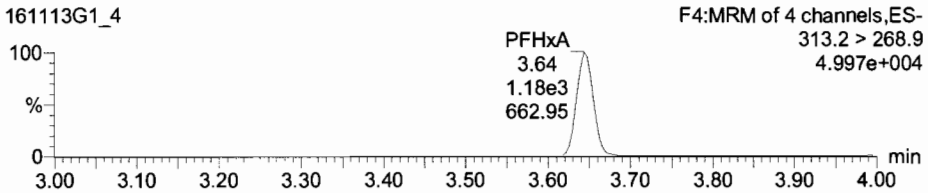

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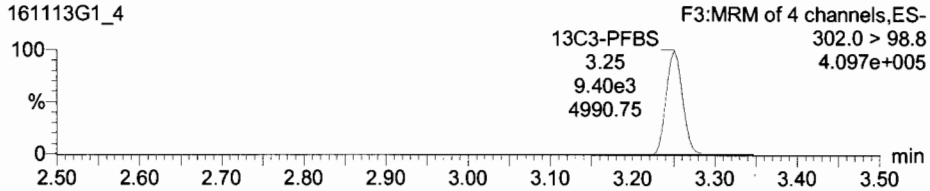

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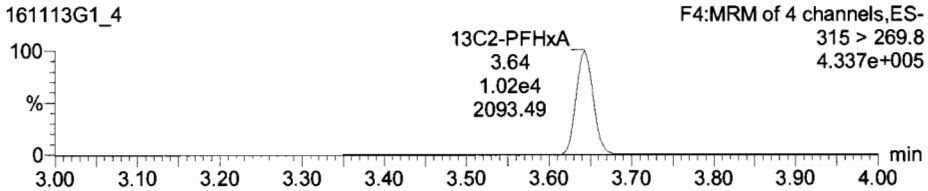

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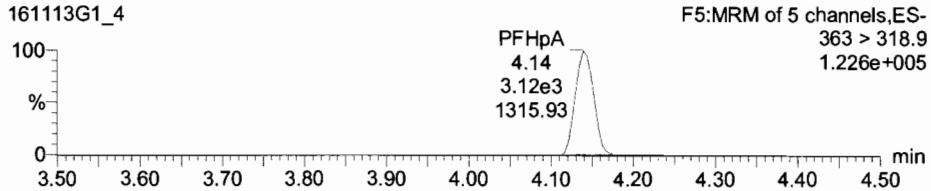

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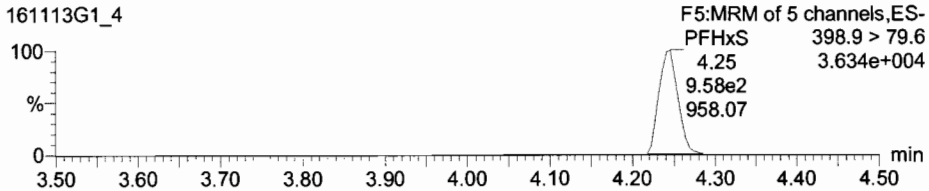

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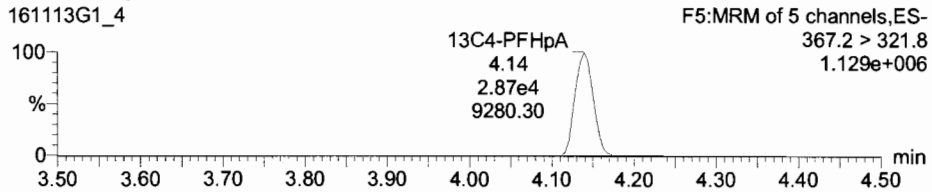

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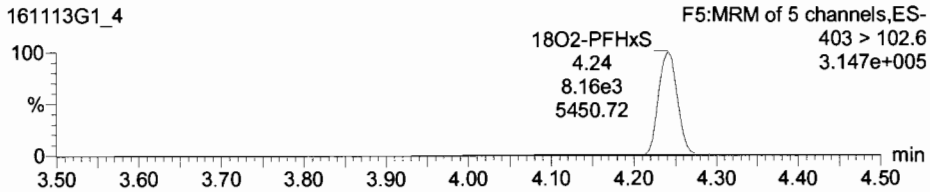

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Name: 161113G1_4, Date: 13-Nov-2016, Time: 11:47:22, ID: ST161113G1-3 PFC CS0 16K1126, Description: PFC CS0 16K1126 A

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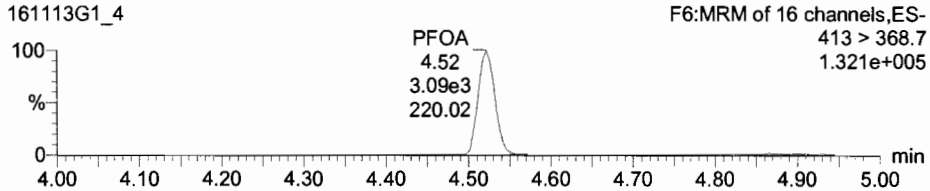

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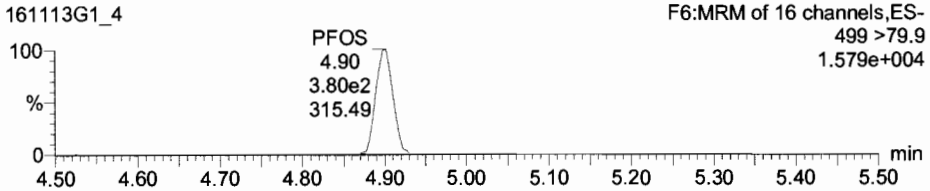

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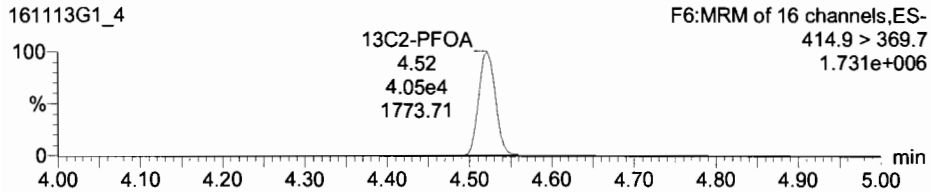

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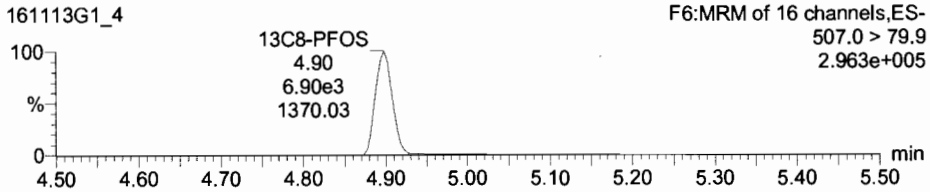

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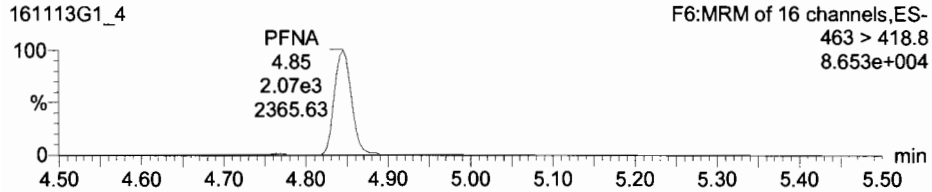

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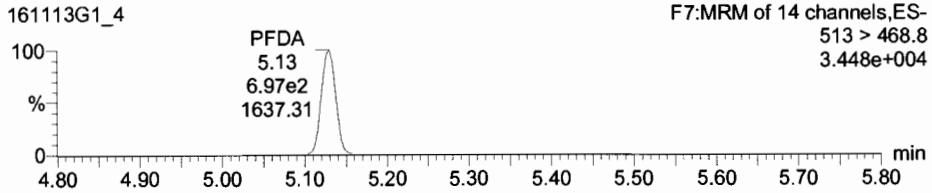

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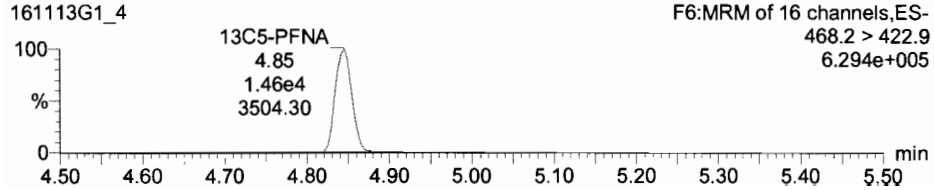

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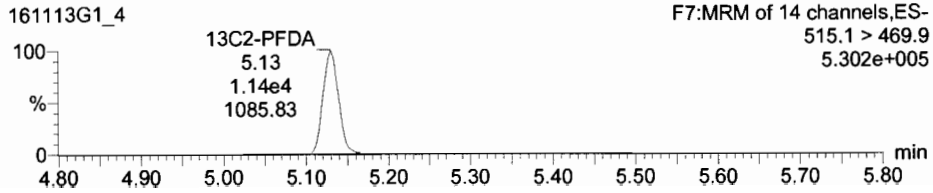

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Name: 161113G1_4, Date: 13-Nov-2016, Time: 11:47:22, ID: ST161113G1-3 PFC CS0 16K1126, Description: PFC CS0 16K1126 A

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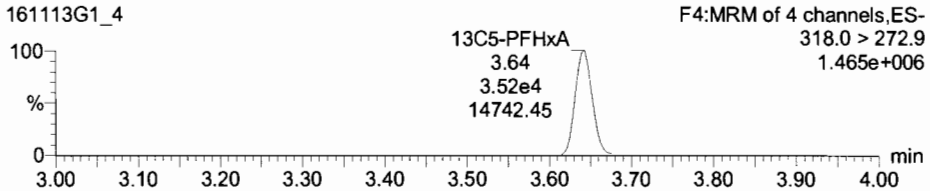

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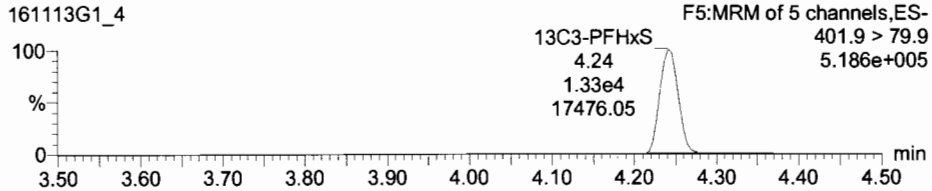

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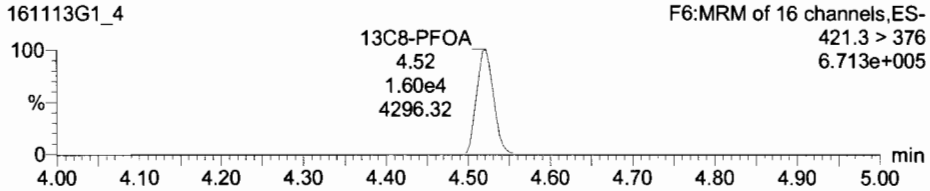

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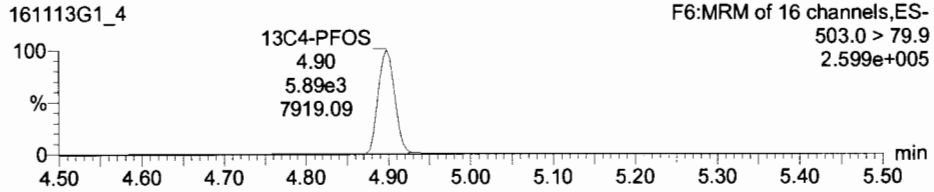

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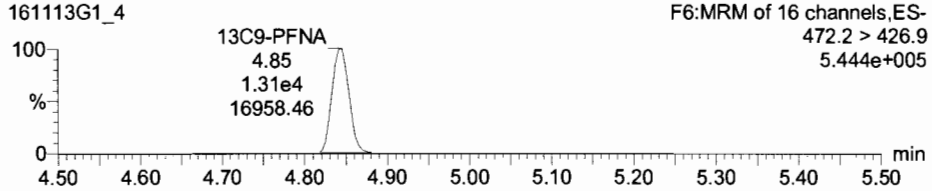

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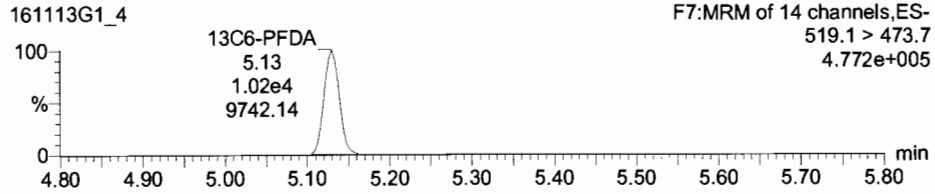

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Name: 161113G1_5, Date: 13-Nov-2016, Time: 12:00:00, ID: ST161113G1-4 PFC CS1 16K1127, Description: PFC CS1 16K1127 A

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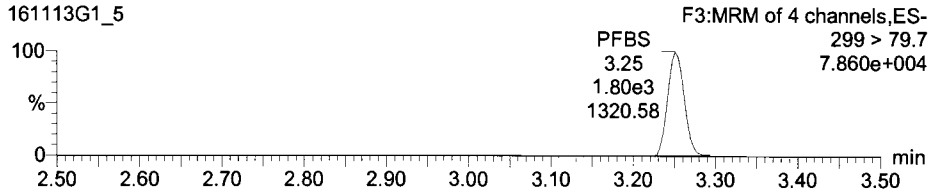
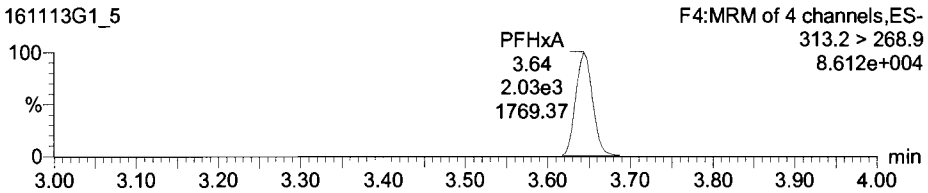


PFHxA



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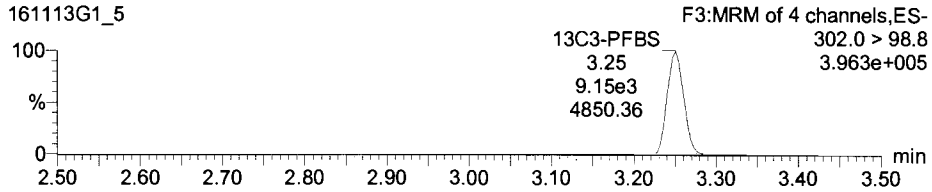

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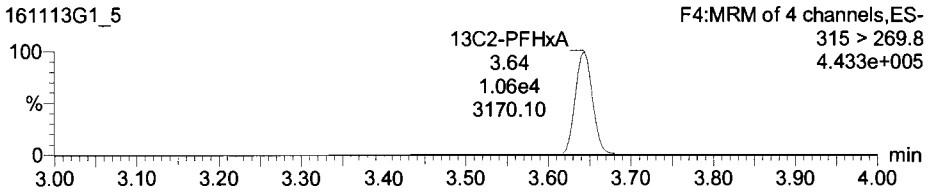

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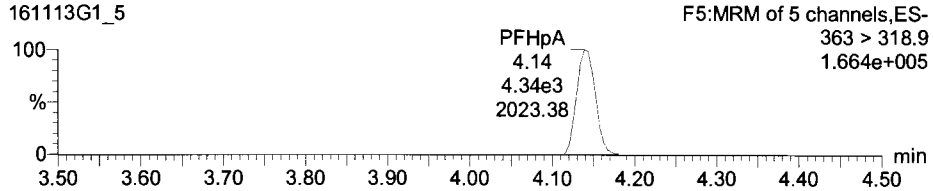
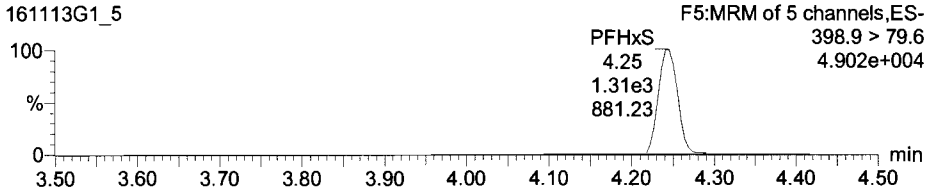


Total PFHxS



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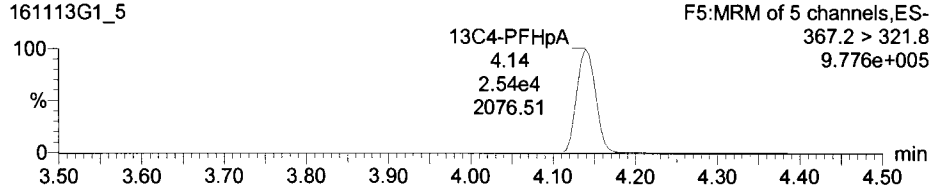

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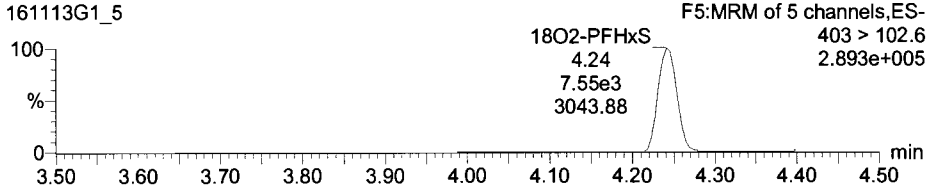

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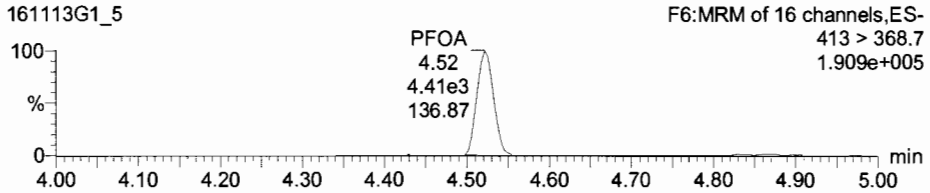
Total PFOA



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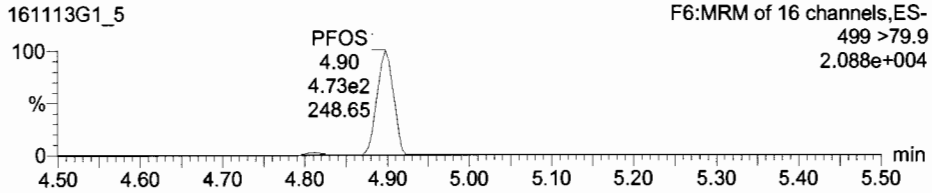

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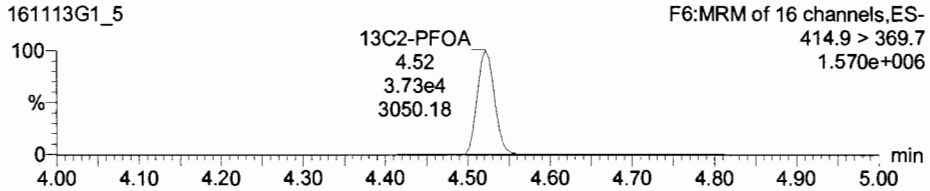

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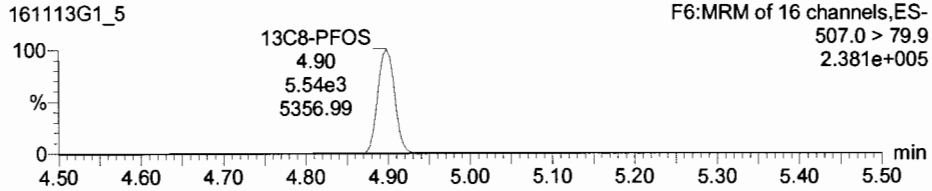

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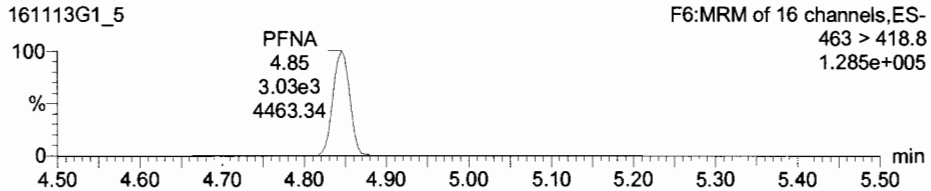

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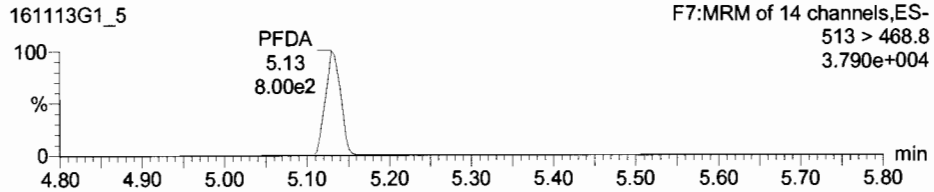
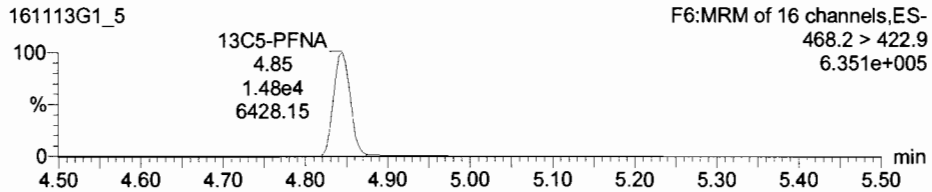


13C5-PFNA



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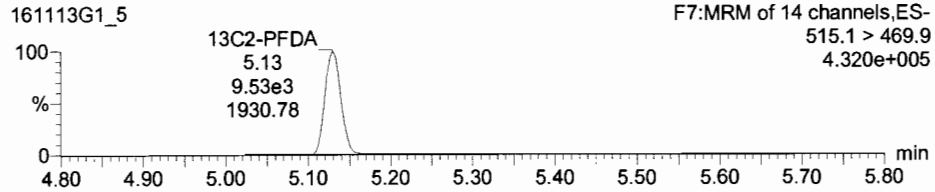

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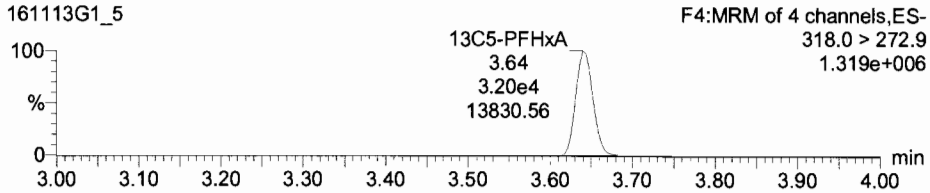
13C5-PFHxA



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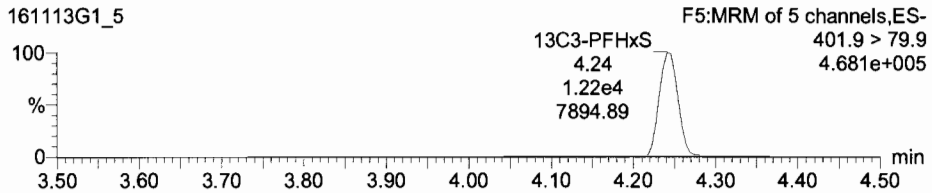
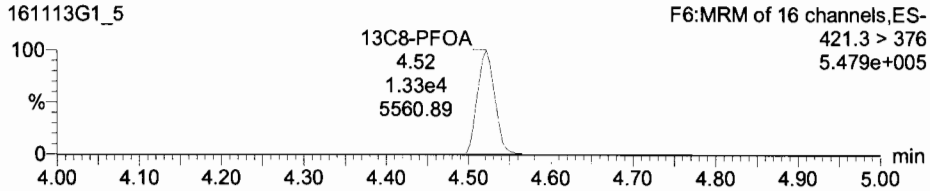


13C8-PFOA



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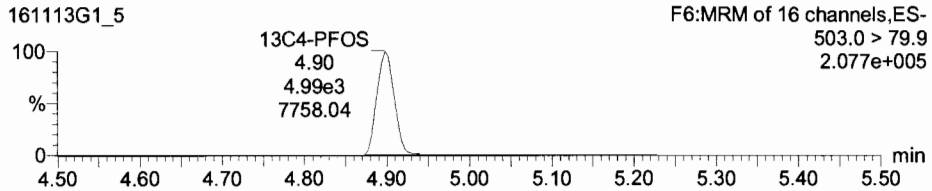

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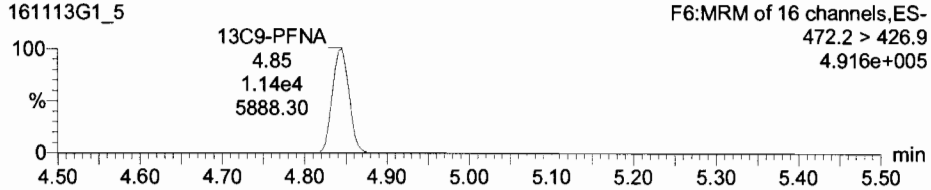
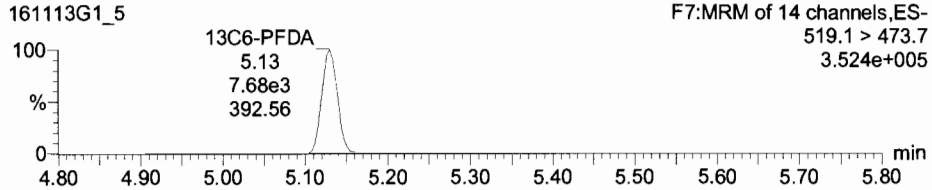


13C6-PFDA



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Last Altered: Monday, November 14, 2016 09:09:18 Pacific Standard Time
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Name: 161113G1_6, Date: 13-Nov-2016, Time: 12:12:39, ID: ST161113G1-5 PFC CS2 16K1128, Description: PFC CS2 16K1128 A

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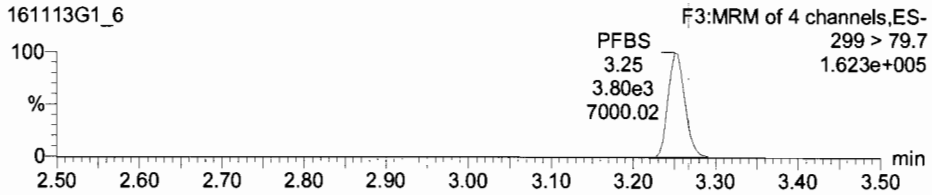
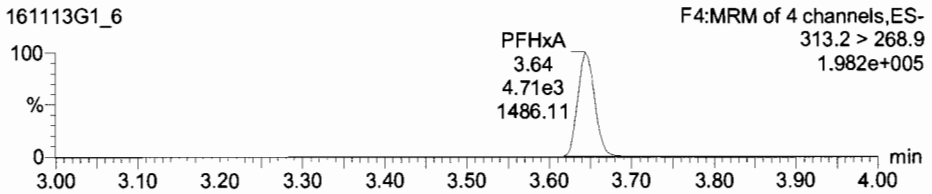
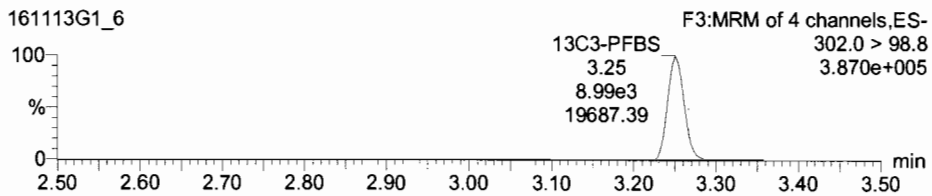


PFHxA



13C3-PFBS



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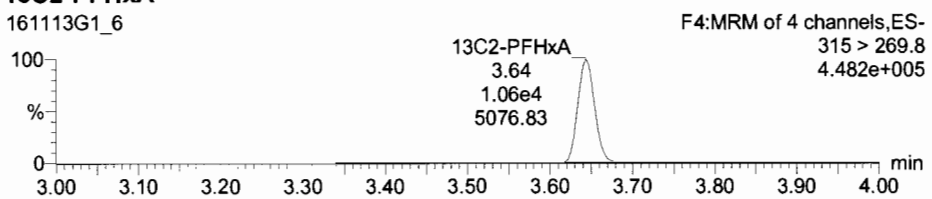

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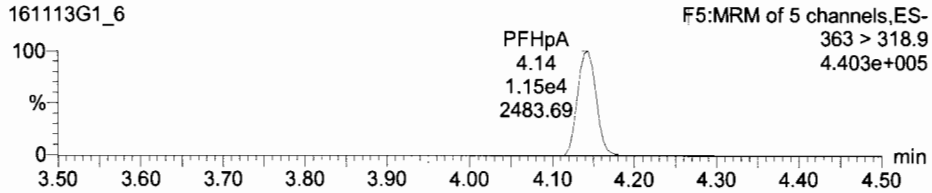

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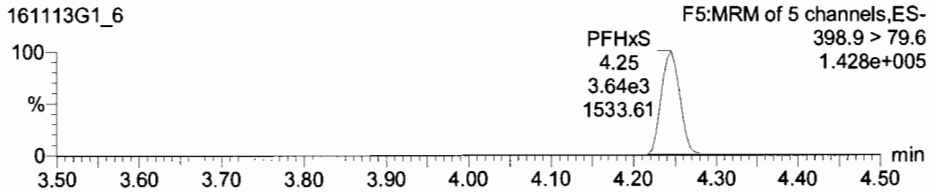

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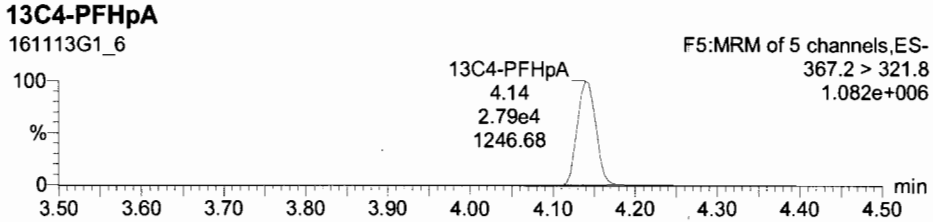

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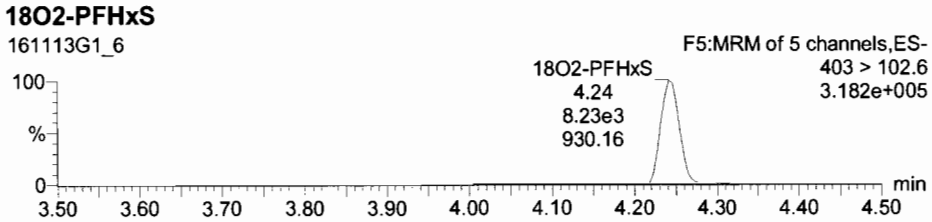

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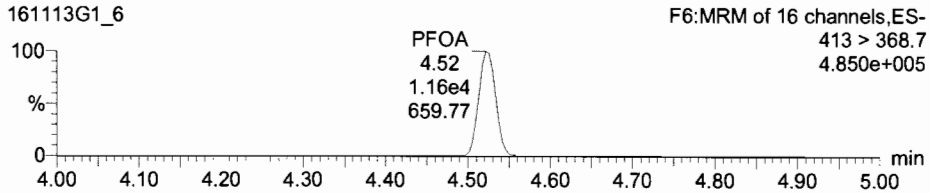
Name: 161113G1_6, Date: 13-Nov-2016, Time: 12:12:39, ID: ST161113G1-5 PFC CS2 16K1128, Description: PFC CS2 16K1128 A

Total PFOA



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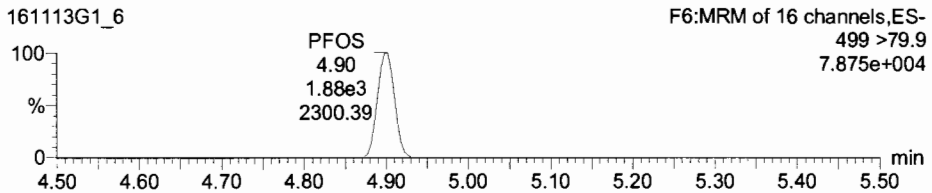

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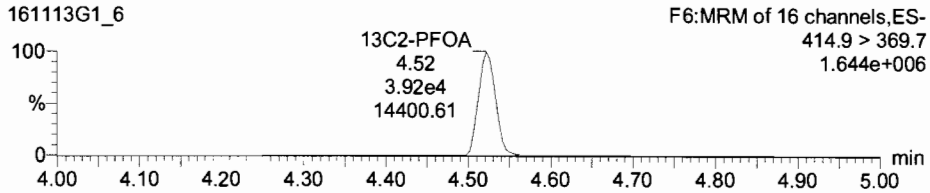

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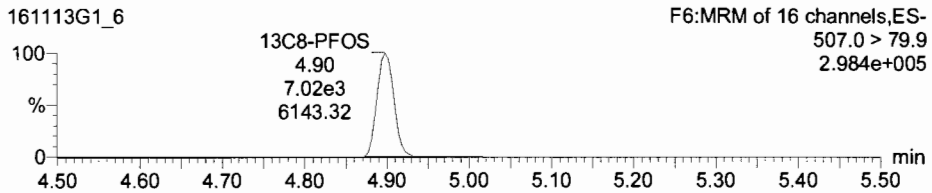

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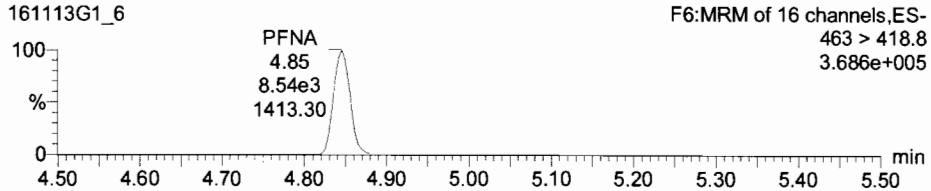

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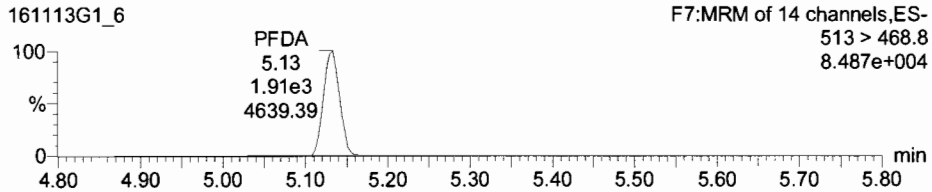

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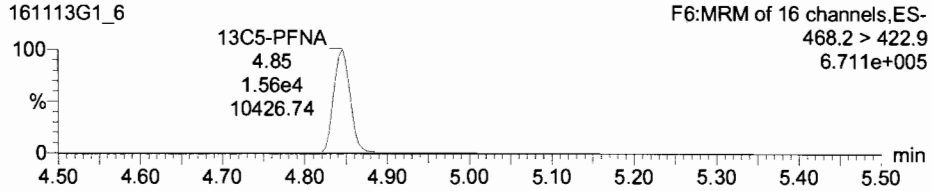

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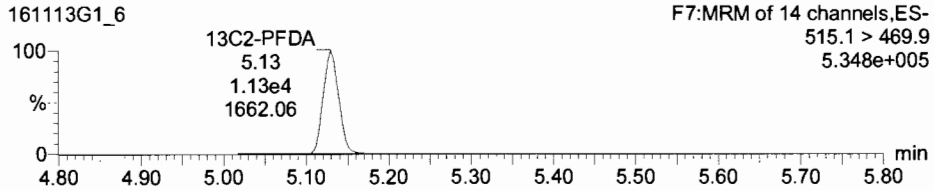


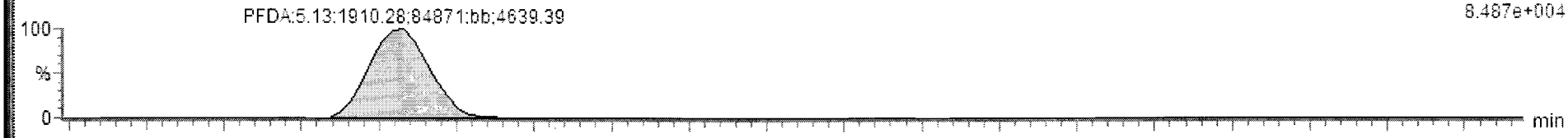
TargetLynx - 161113G1-CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

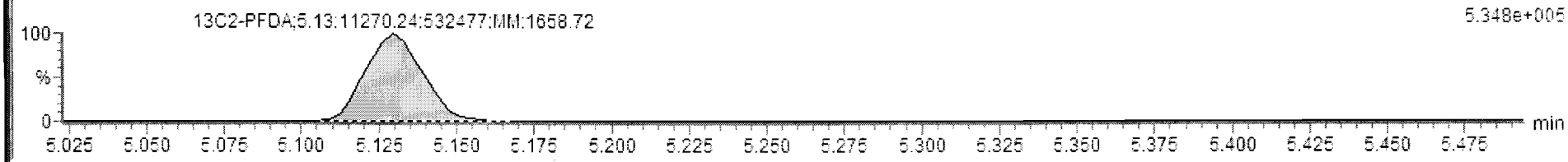
161113G1_6 - ST161113G1-5 PFC CS2 16K1128 - PFC CS2 16K1128 A

	Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	299 > 79.7	3.80e3	5.284	1.057	1.000	3.25	3.78	75.6	0.0000000		0.9869
2	PFHxA	313.2 > 268.9	4.71e3	2.227	0.445	1.000	3.64	4.01	80.1	0.0000000		0.9842
3	PFHpA	363 > 318.9	1.15e4	5.135	1.027	1.000	4.14	4.16	83.1	0.0000000		0.9869
4	PFHxS	398.9 > 79.6	3.64e3	5.528	1.106	1.000	4.25	4.14	82.8	0.0000000		0.9851
5	PFOA	413 > 368.7	1.16e4	3.693	0.739	1.000	4.52	4.34	86.7	0.0000000		0.9913
6	PFOS	499 >79.9	1.88e3	3.348	0.670	1.000	4.90	4.72	94.4	0.1197636		0.9951
7	PFNA	463 > 418.8	8.54e3	6.854	1.371	1.000	4.85	4.23	84.7	0.0000000		0.9827
8	PFDA	513 > 468.8	1.91e3	2.119	0.424	1.000	5.13	3.75	75.0	0.0000000		0.9862
9	13C3-PFBS	302.0 > 98.8	8.99e3	3.434	0.275	1.000	3.25	13.7	110.0	0.0017850	13.7	
10	13C2-PFHxA	315 > 269.8	1.06e4	4.040	0.808	1.000	3.64	5.45	109.0	0.0026978	12.8	
11	13C4-PFHpA	367.2 > 321.8	2.79e4	28.342	2.267	1.000	4.14	13.6	109.2	0.0273797	10.8	
12	18O2-PFHxS	403 > 102.6	8.23e3	8.347	0.668	1.000	4.24	13.8	110.8	0.0372324	12.7	
13	13C2-PFOA	414.9 > 369.7	3.92e4	31.375	2.510	1.000	4.52	12.9	102.9	0.0022195	11.2	
14	13C8-PFOS	507.0 > 79.9	7.02e3	14.052	1.124	1.000	4.90	13.3	106.5	0.0053721	14.3	
15	13C5-PFNA	468.2 > 422.9	1.56e4	16.036	1.283	1.000	4.85	13.9	110.8	0.0033300	14.0	
16	13C2-PFDA	515.1 > 469.9	1.13e4	14.806	1.185	1.000	5.13	12.7	101.8	0.0196539	16.6	
17	13C5-PFHxA	318.0 > 272.9	3.27e4	12.500	1.000	1.000	3.64	12.5	100.0	0.0023257	0.000000...	

161113G1_6 Smooth(Mn,1x2)
PFC CS2 16K1128 A ST161113G1-5 PFC CS2 16K1128
F7:MRM of 14 channels,ES-
513 > 468.8
8.487e+004



161113G1_6 Smooth(Mn,1x2)
PFC CS2 16K1128 A ST161113G1-5 PFC CS2 16K1128
F7:MRM of 14 channels,ES-
515.1 > 469.9
5.348e+005



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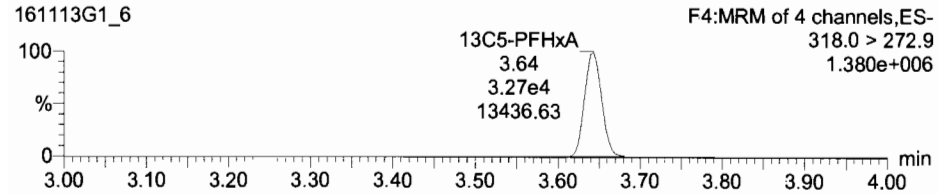
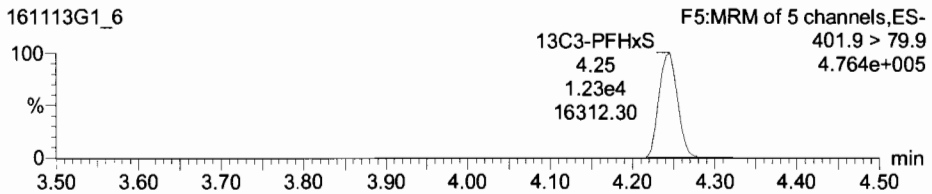
Name: 161113G1_6, Date: 13-Nov-2016, Time: 12:12:39, ID: ST161113G1-5 PFC CS2 16K1128, Description: PFC CS2 16K1128 A

13C5-PFHxA



13C3-PFHxS



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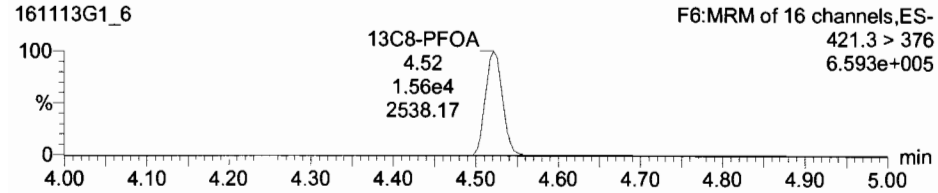

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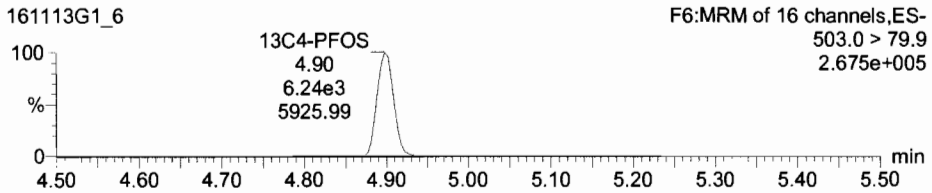

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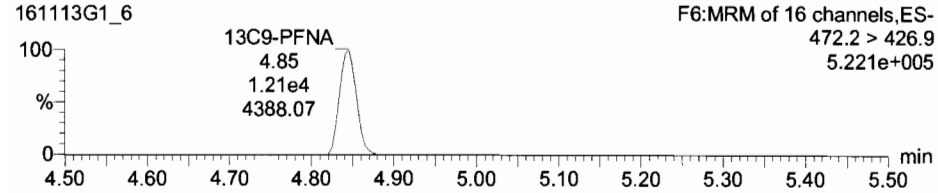

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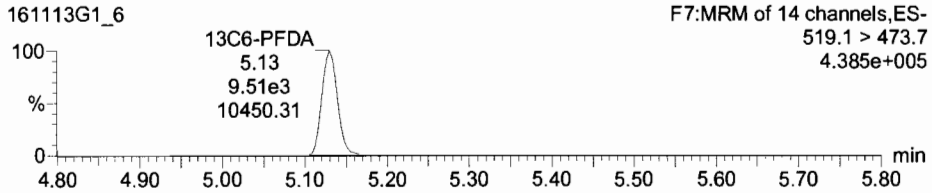

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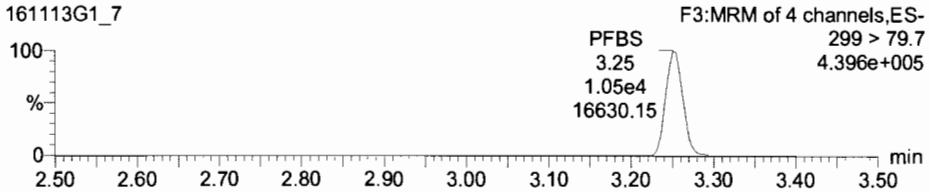
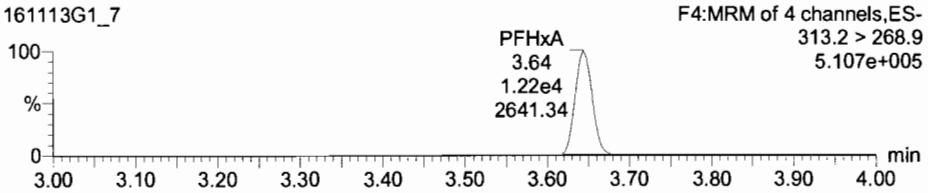
Total PFBS



PFHxA



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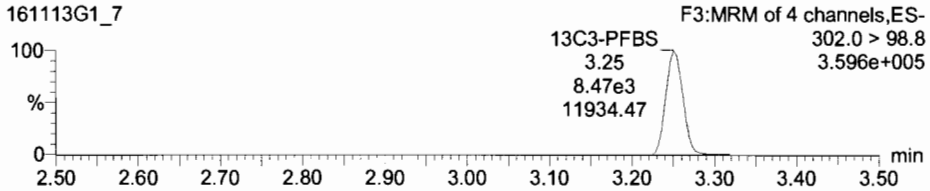

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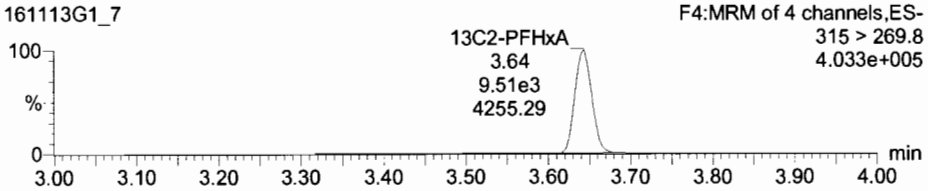

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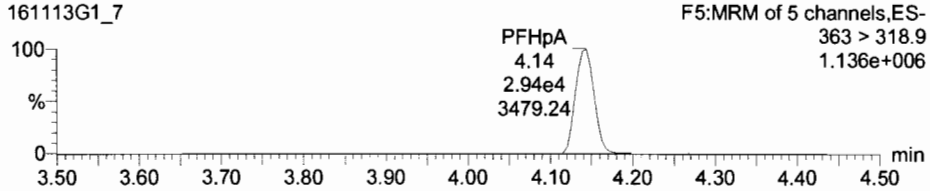

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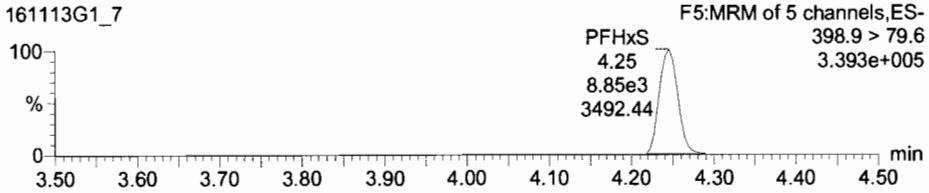

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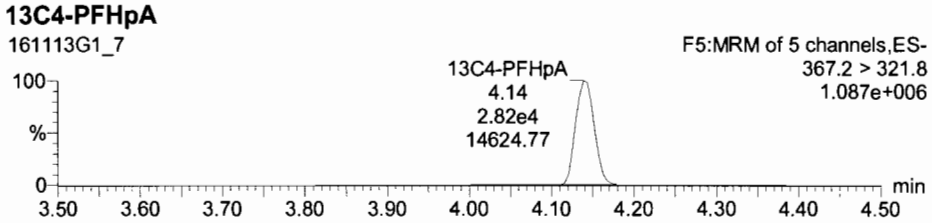

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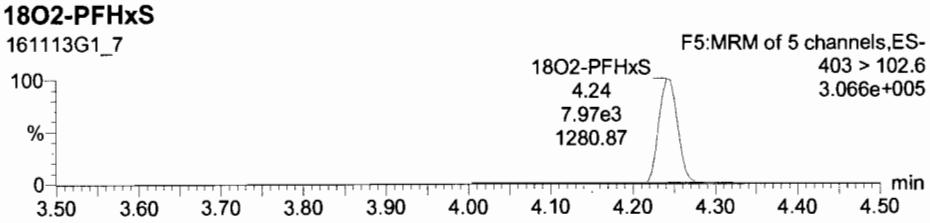

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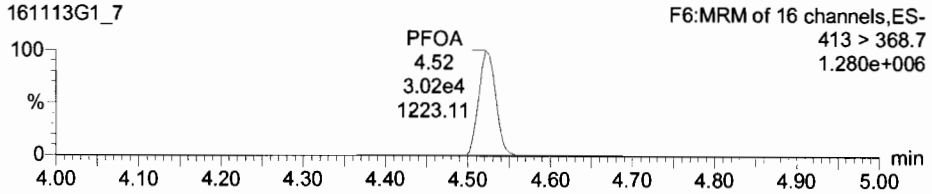
Name: 161113G1_7, Date: 13-Nov-2016, Time: 12:25:17, ID: ST161113G1-6 PFC CS3 16K1129, Description: PFC CS3 16K1129 A

Total PFOA



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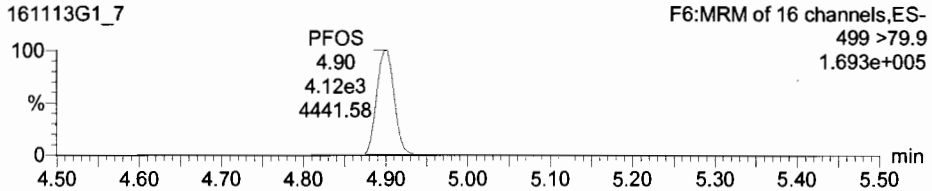

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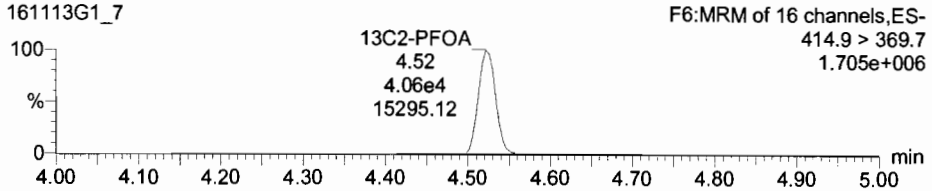

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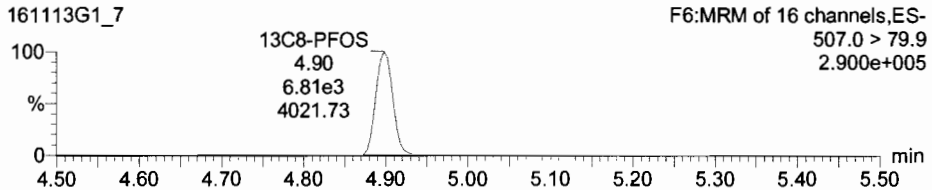

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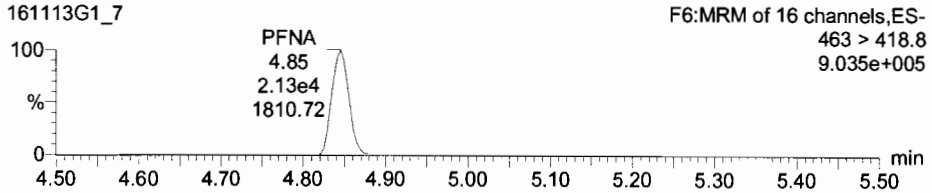
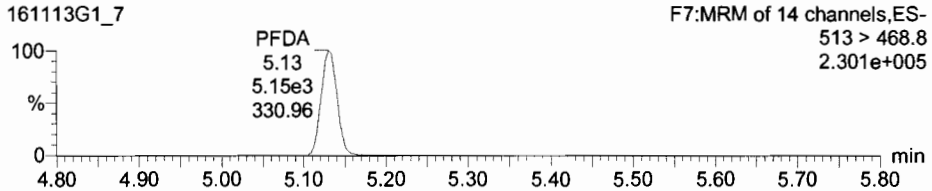
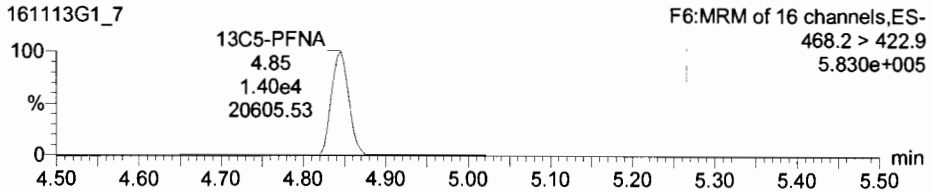


PFDA



13C5-PFNA



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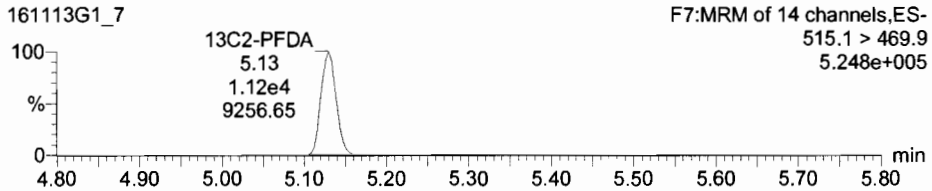

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Name: 161113G1_7, Date: 13-Nov-2016, Time: 12:25:17, ID: ST161113G1-6 PFC CS3 16K1129, Description: PFC CS3 16K1129 A

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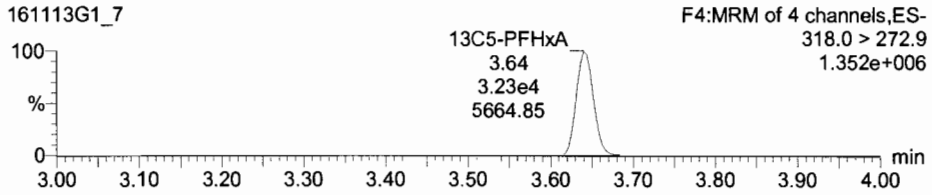

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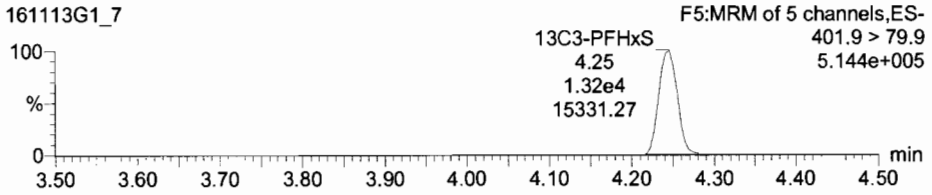

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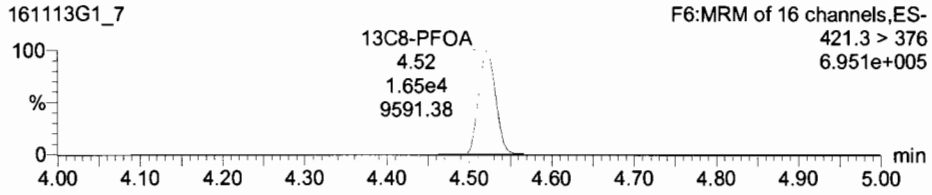

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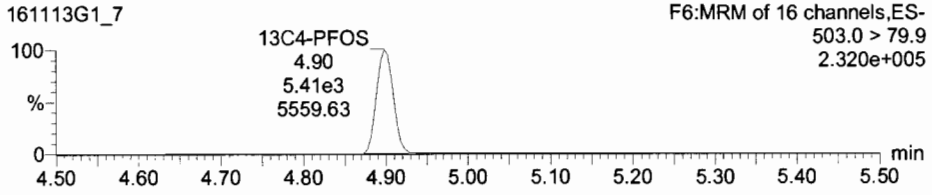

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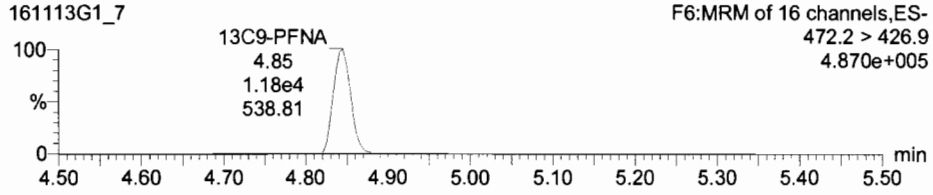

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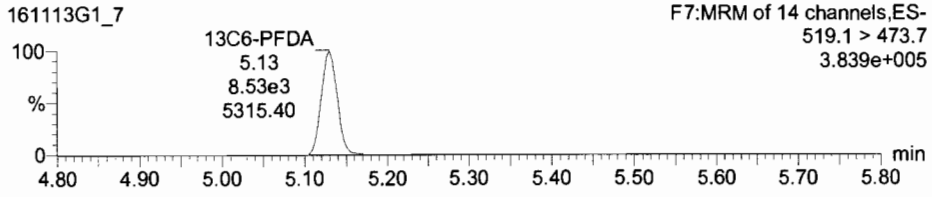

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Last Altered: Monday, November 14, 2016 09:09:18 Pacific Standard Time
Printed: Monday, November 14, 2016 09:10:33 Pacific Standard Time

Name: 161113G1_8, Date: 13-Nov-2016, Time: 12:37:58, ID: ST161113G1-7 PFC CS3.5 16K0923, Description: PFC CS3.5 16K0923 A

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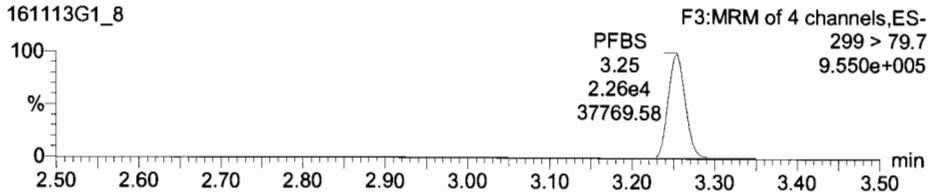

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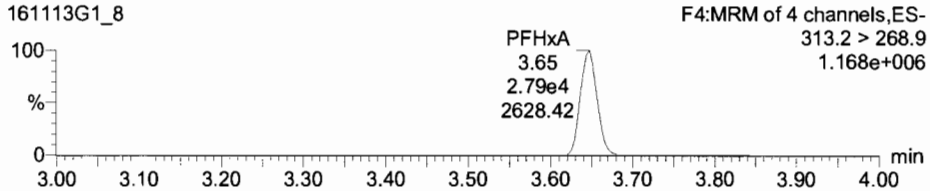

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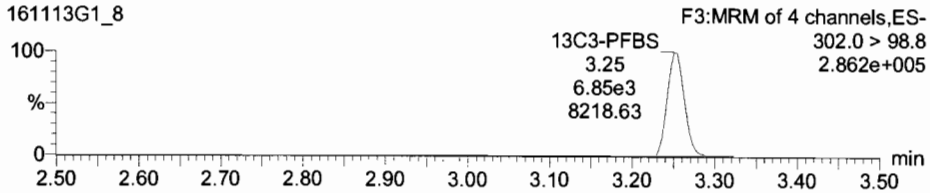

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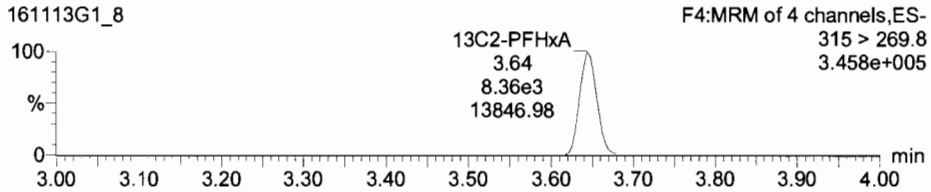

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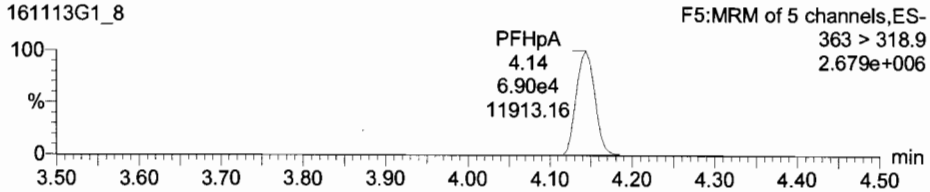

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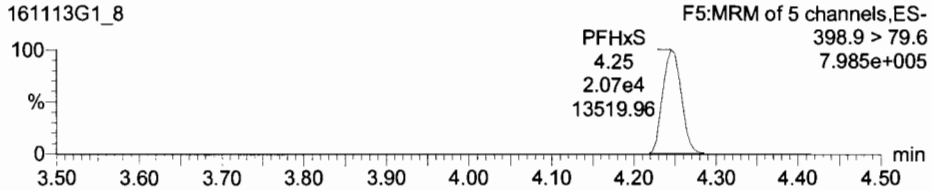

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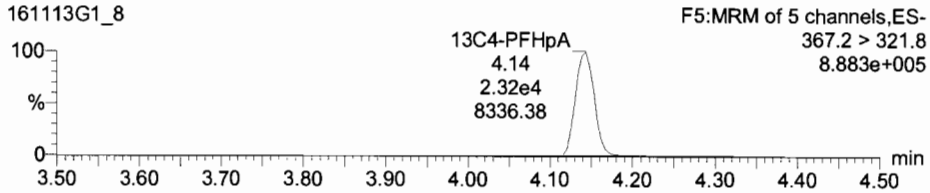

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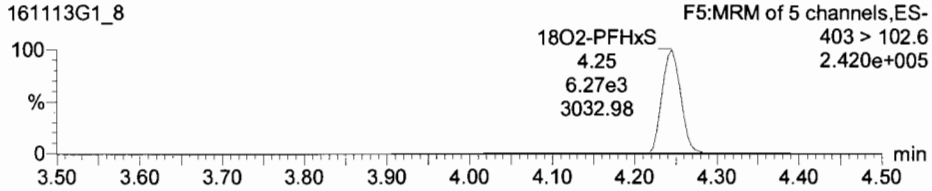

TargetLynx - 161113G1-CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

161113G1_8 - ST161113G1-7 PFC CS3.5 16K0923 - PFC CS3.5 16K0923 A

	Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	299 > 79.7	2.26e4	41.168	1.647	1.000	3.25	30.1	120.2	0.0000000		0.9865
2	PFHxA	313.2 > 268.9	2.79e4	16.662	0.666	1.000	3.65	31.1	124.3	0.0000000		0.9842
3	PFHpA	363 > 318.9	6.90e4	37.241	1.490	1.000	4.14	31.0	124.1	0.0000000		0.9869
4	PFHxS	398.9 > 79.6	2.06e4	40.786	1.631	1.000	4.25	31.2	125.0	0.0000000		0.9851
5	PFOA	413 > 368.7	6.61e4	23.657	0.946	1.000	4.53	29.3	117.1	0.0000000		0.9913
6	PFOS	499 >79.9	8.64e3	20.638	0.826	1.000	4.90	28.5	114.0	0.1352703		0.9951
7	PFNA	463 > 418.8	4.61e4	49.063	1.963	1.000	4.85	30.8	123.3	0.0000000		0.9827
8	PFDA	513 > 468.8	9.45e3	17.105	0.684	1.000	5.13	31.1	124.5	0.0000000		0.9862
9	13C3-PFBS	302.0 > 98.8	6.85e3	2.292	0.183	1.000	3.25	9.18	73.4	0.0028420	13.7	
10	13C2-PFHxA	315 > 269.8	8.36e3	2.797	0.559	1.000	3.64	3.77	75.5	0.0006873	12.8	
11	13C4-PFHpA	367.2 > 321.8	2.32e4	20.720	1.658	1.000	4.14	9.98	79.8	0.0030063	10.8	
12	18O2-PFHxS	403 > 102.6	6.31e3	5.643	0.451	1.000	4.25	9.36	74.9	0.0077578	12.7	
13	13C2-PFOA	414.9 > 369.7	3.49e4	23.496	1.880	1.000	4.53	9.64	77.1	0.0222173	11.2	
14	13C8-PFOS	507.0 > 79.9	5.23e3	10.741	0.859	1.000	4.90	10.2	81.4	0.0294796	14.3	
15	13C5-PFNA	468.2 > 422.9	1.18e4	10.882	0.855	1.000	4.85	9.23	73.8	0.0014979	14.0	
16	13C2-PFDA	515.1 > 469.9	6.91e3	10.208	0.817	1.000	5.13	8.77	70.2	0.0019706	16.6	
17	13C5-PFHxA	318.0 > 272.9	3.74e4	12.500	1.000	1.000	3.64	12.5	100.0	0.0028158	0.000000...	

161113G1_8 Smooth(Mn,1x2)
PFC CS3.5 16K0923 A ST161113G1-7 PFC CS3.5 16K0923

F5:MRM of 5 channels,ES-
398.9 > 79.6
7.985e+005

PFHxS:4.25;20579.66;795686;MM;13504.75

100
%
0
min

161113G1_8 Smooth(Mn,1x2)
PFC CS3.5 16K0923 A ST161113G1-7 PFC CS3.5 16K0923

F5:MRM of 5 channels,ES-
403 > 102.6
2.420e+005

18O2-PFHxS;4.25;6307.21;241987;MM;3037.00

100
%
0
min

4.025 4.050 4.075 4.100 4.125 4.150 4.175 4.200 4.225 4.250 4.275 4.300 4.325 4.350 4.375

Ready 161113G1_8 CAP NUM

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Last Altered: Monday, November 14, 2016 09:09:18 Pacific Standard Time
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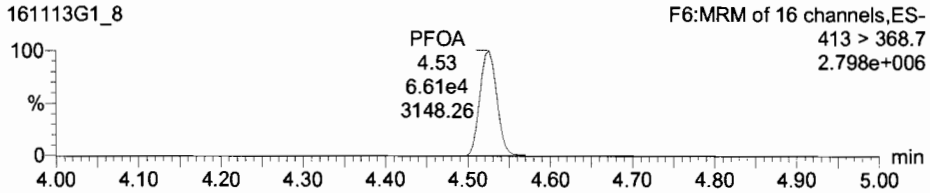
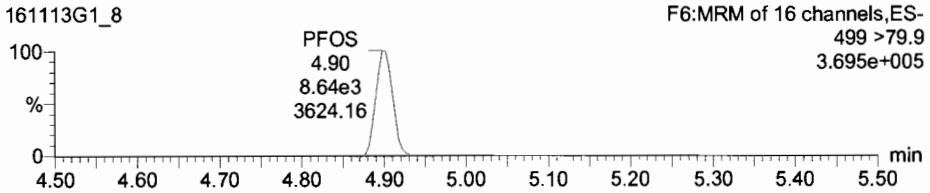
Name: 161113G1_8, Date: 13-Nov-2016, Time: 12:37:58, ID: ST161113G1-7 PFC CS3.5 16K0923, Description: PFC CS3.5 16K0923 A

Total PFOA



Total PFOS



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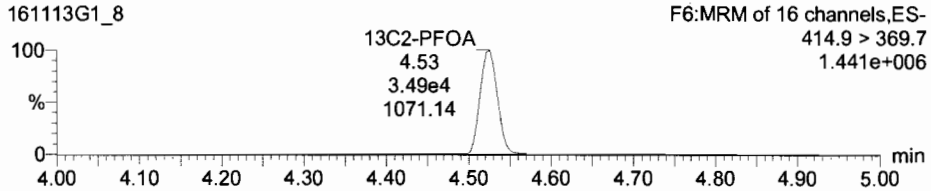

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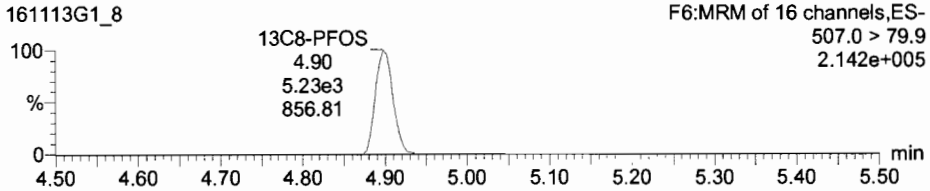

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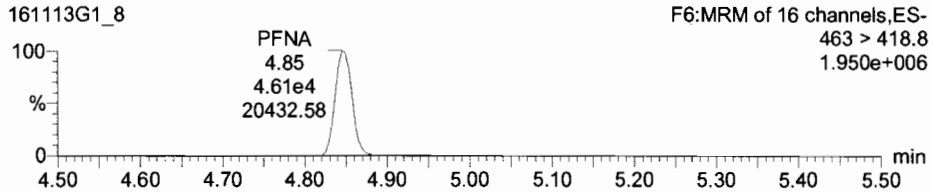

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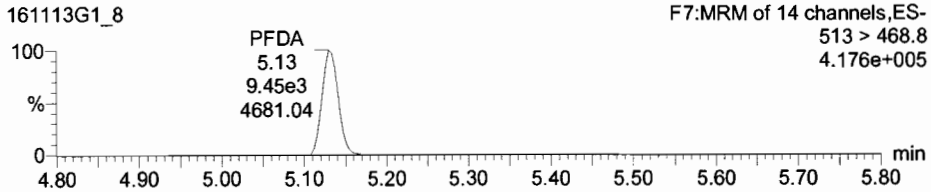

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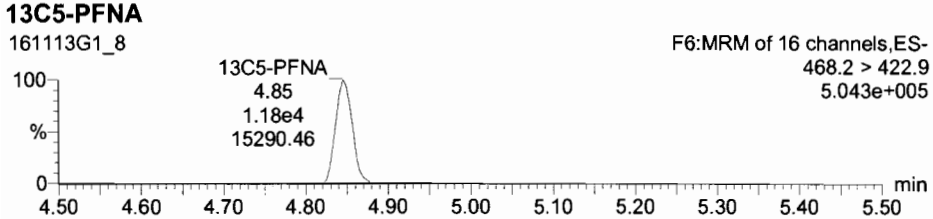

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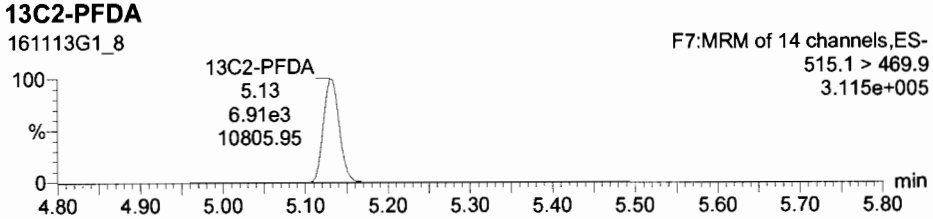

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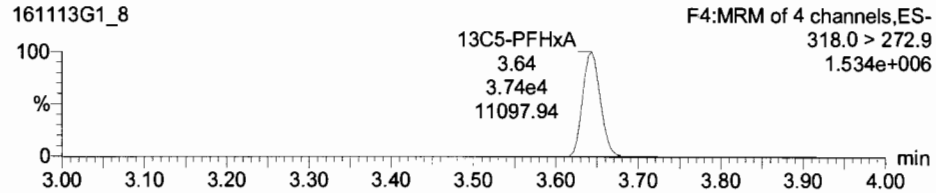
13C5-PFHxA



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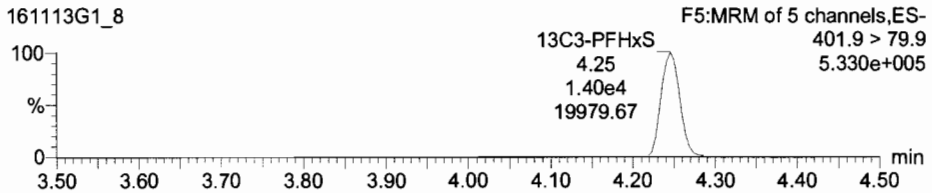

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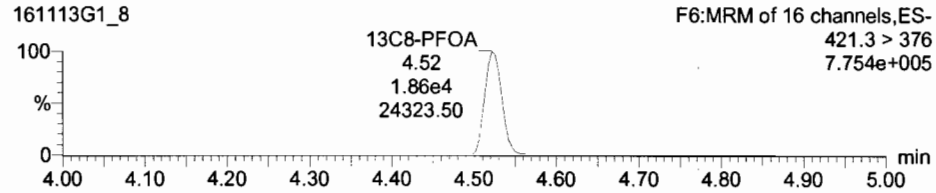

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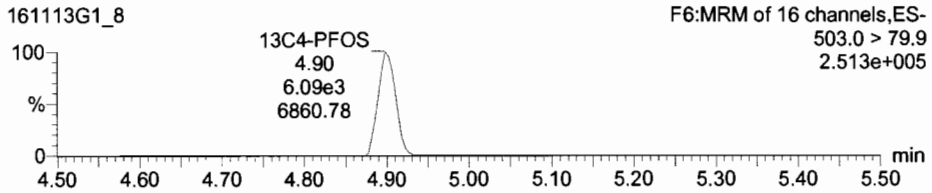

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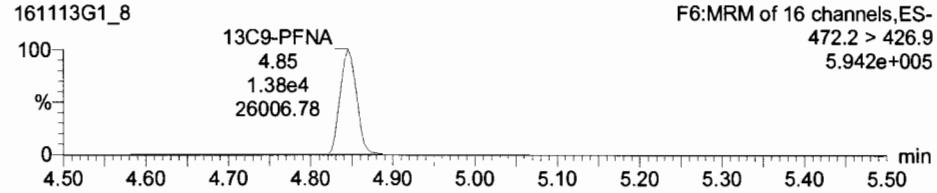

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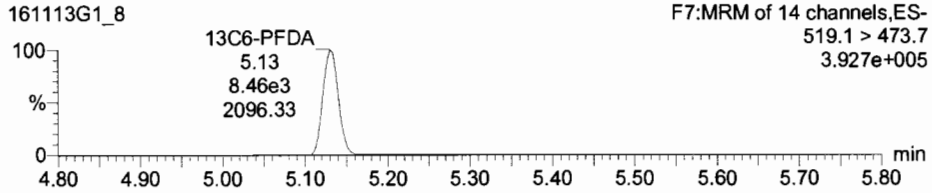

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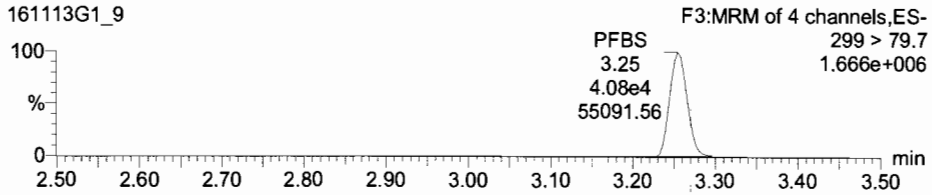

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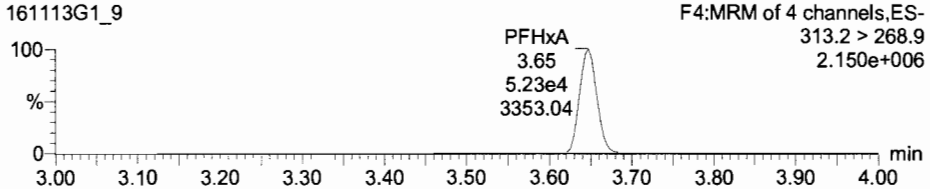

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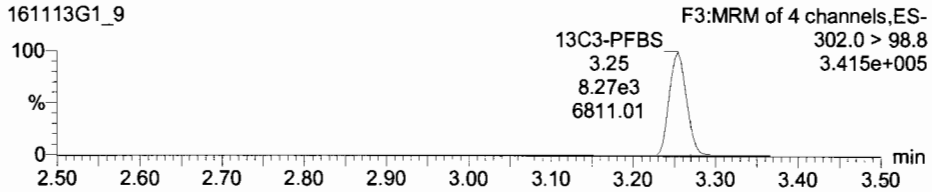

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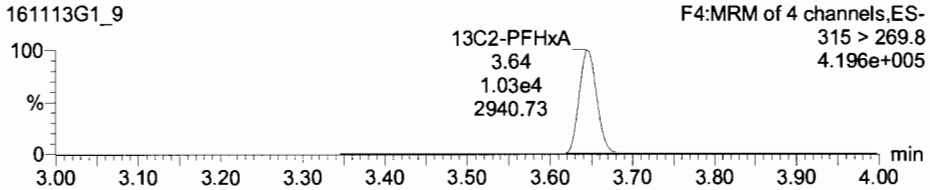

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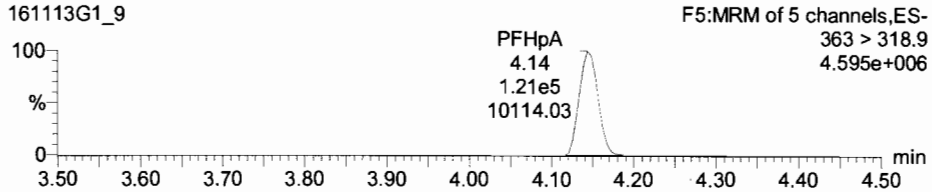

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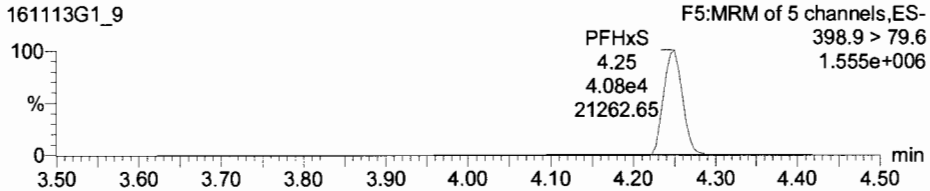

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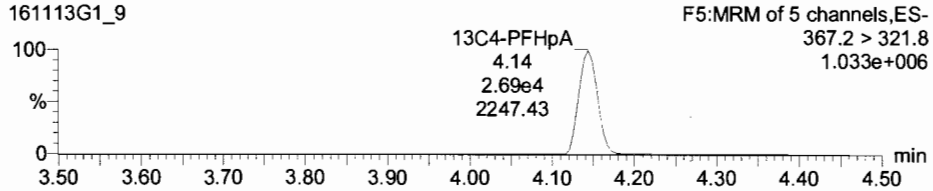

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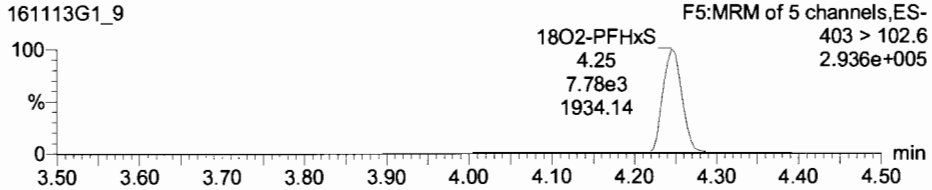

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Name: 161113G1_9, Date: 13-Nov-2016, Time: 12:50:37, ID: ST161113G1-8 PFC CS4 16K1130, Description: PFC CS4 16K1130 A

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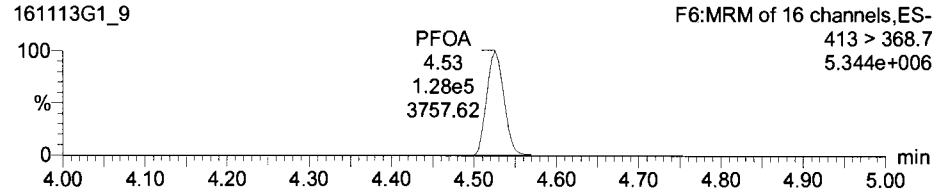

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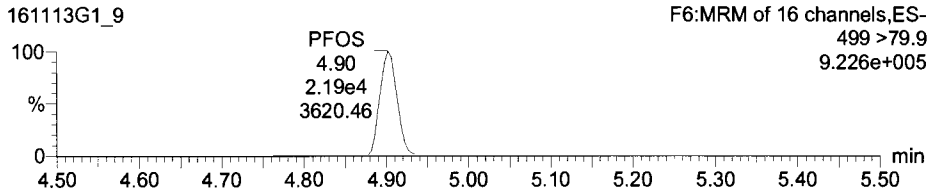

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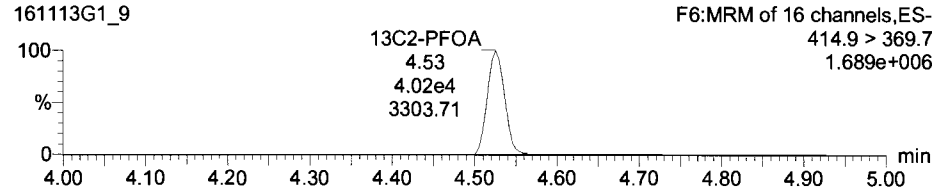

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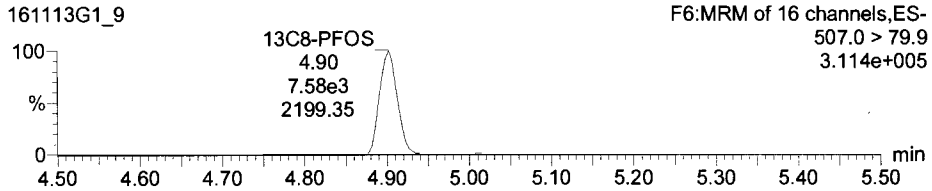

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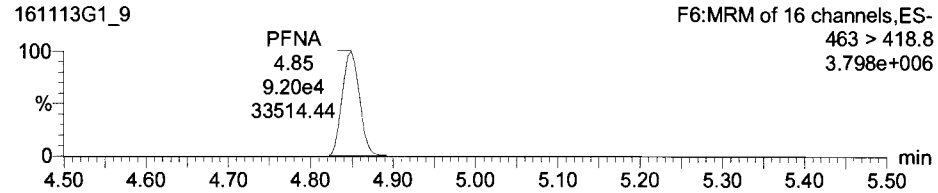
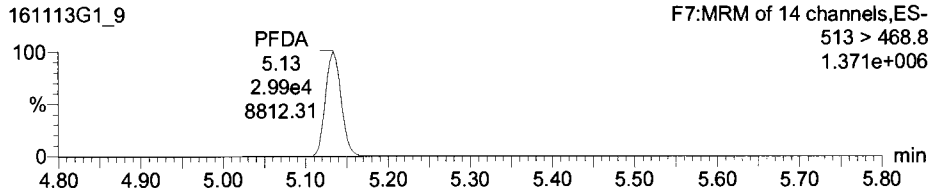
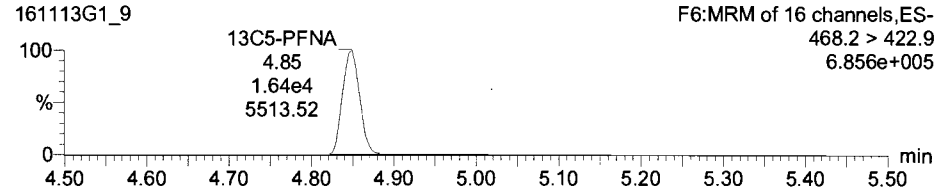


PFDA



13C5-PFNA



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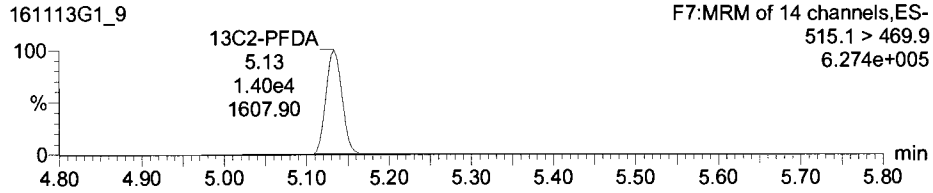

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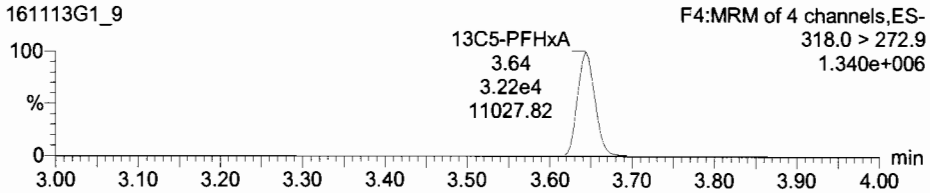
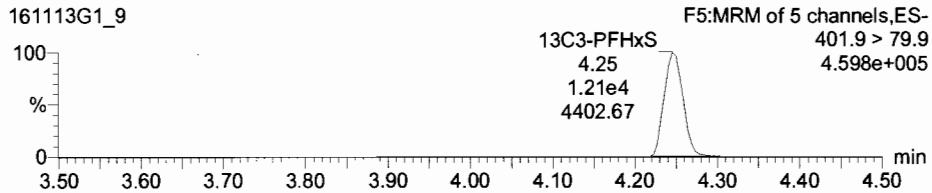
Printed: Monday, November 14, 2016 09:10:33 Pacific Standard Time

Name: 161113G1_9, Date: 13-Nov-2016, Time: 12:50:37, ID: ST161113G1-8 PFC CS4 16K1130, Description: PFC CS4 16K1130 A

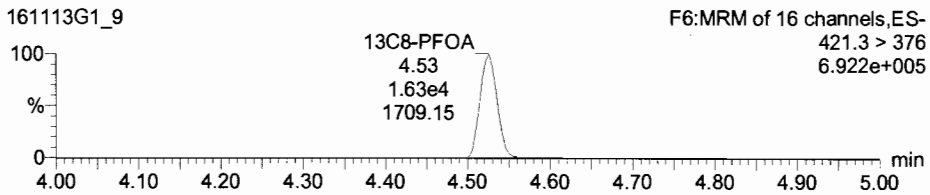
13C5-PFHxA



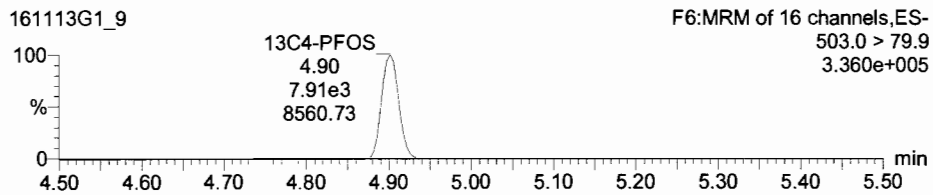
13C3-PFHxS



13C8-PFOA



13C4-PFOS



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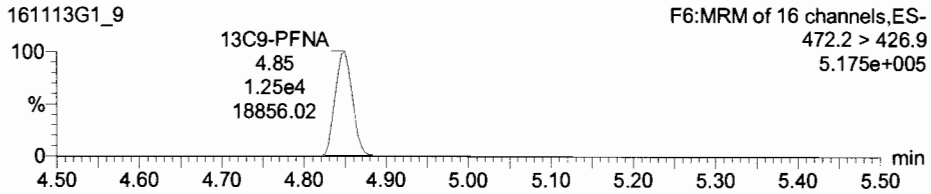
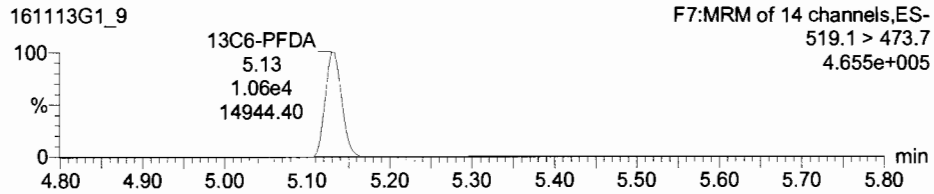


13C6-PFDA



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Last Altered: Monday, November 14, 2016 09:09:18 Pacific Standard Time
Printed: Monday, November 14, 2016 09:10:33 Pacific Standard Time

Name: 161113G1_10, Date: 13-Nov-2016, Time: 13:03:18, ID: ST161113G1-9 PFC CS4.5 16K1131, Description: PFC CS4.5 16K1131 A

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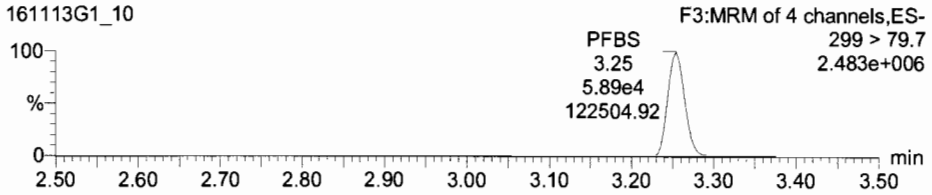
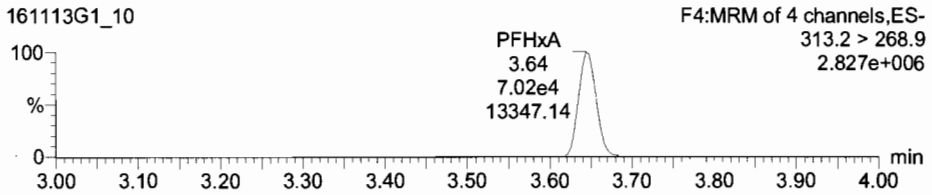
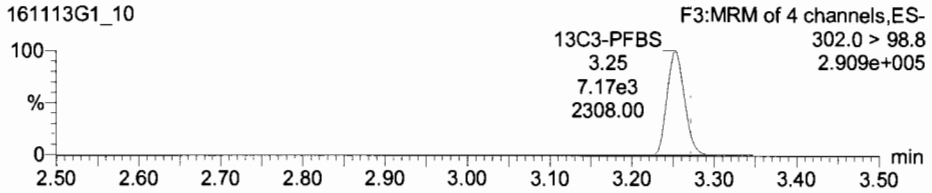


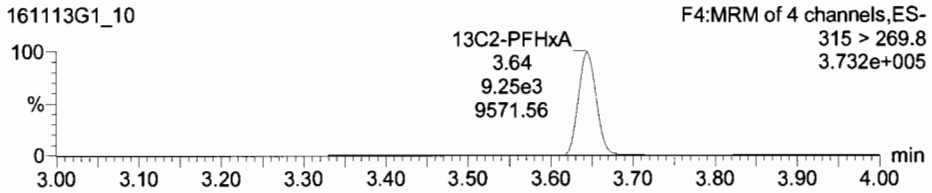
PFHxA



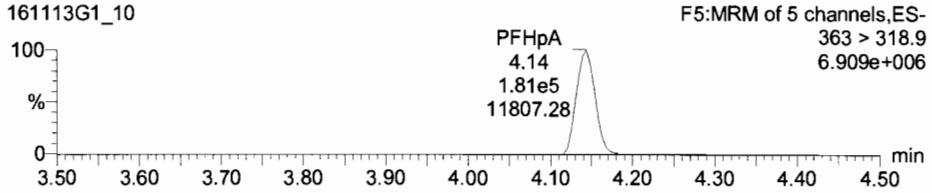
13C3-PFBS



13C2-PFHxA



PFHpA



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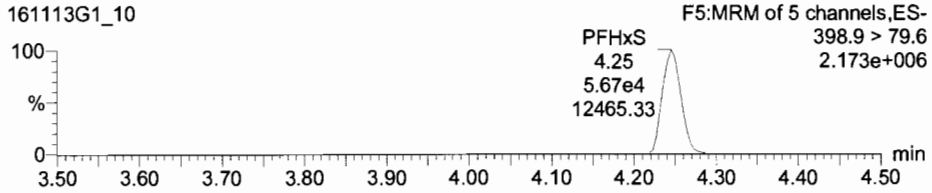
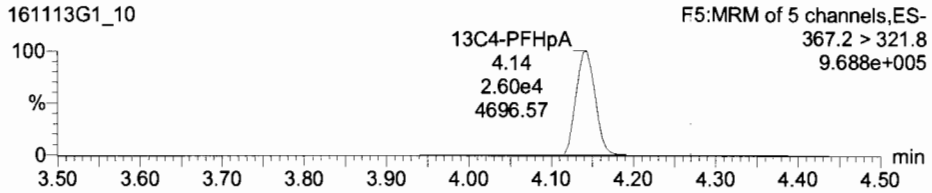
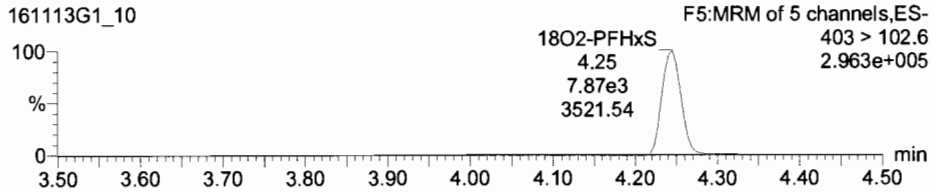


13C4-PFHpA



18O2-PFHxS



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Name: 161113G1_10, Date: 13-Nov-2016, Time: 13:03:18, ID: ST161113G1-9 PFC CS4.5 16K1131, Description: PFC CS4.5 16K1131 A

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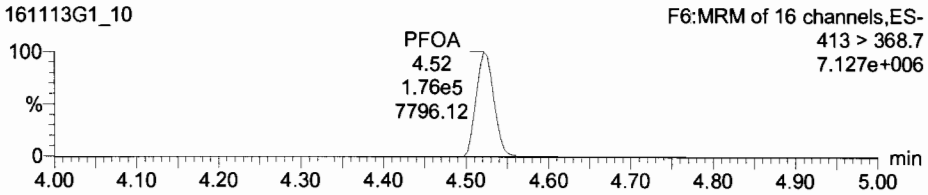

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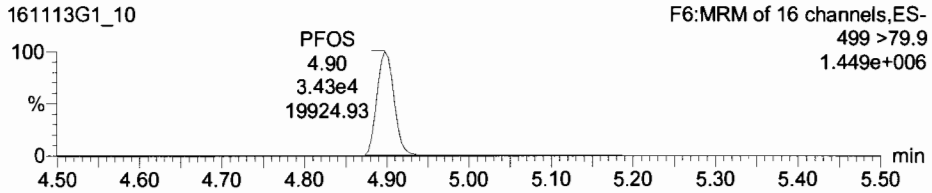

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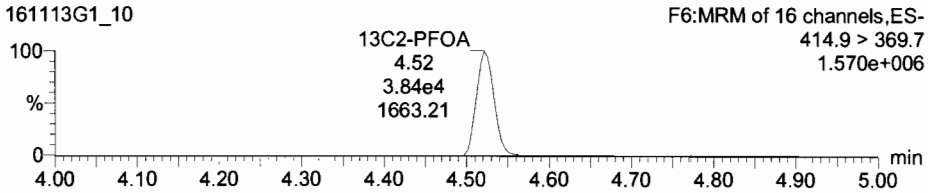

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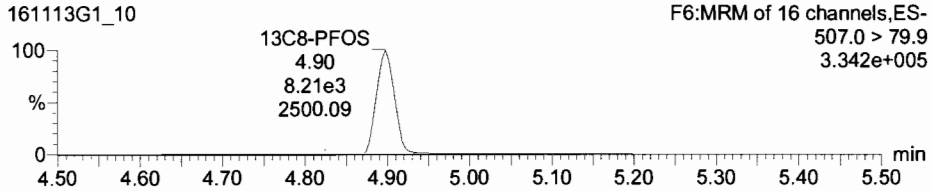

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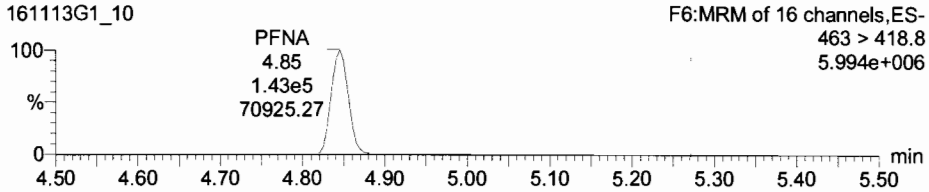

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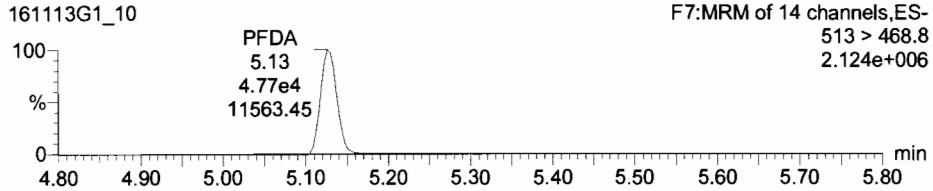
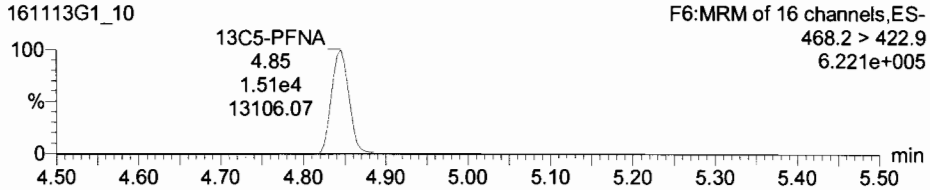


13C5-PFNA



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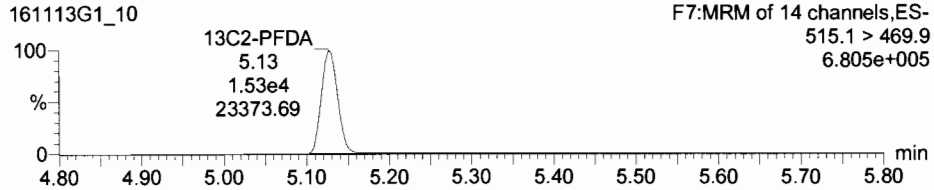

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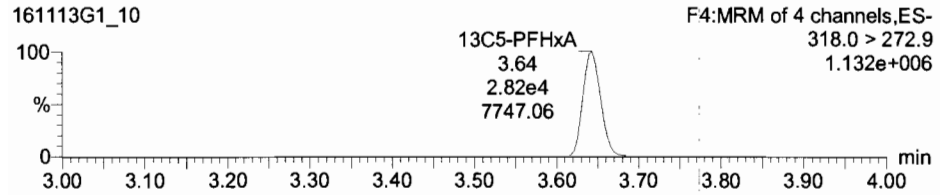
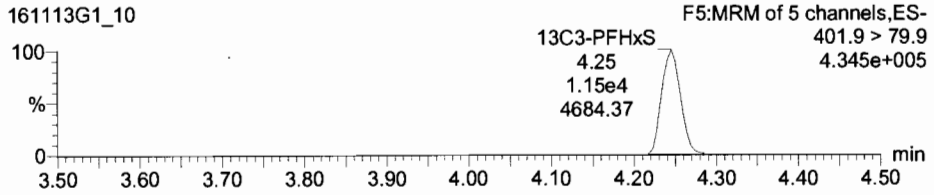
Name: 161113G1_10, Date: 13-Nov-2016, Time: 13:03:18, ID: ST161113G1-9 PFC CS4.5 16K1131, Description: PFC CS4.5 16K1131 A

13C5-PFHxA



13C3-PFHxS



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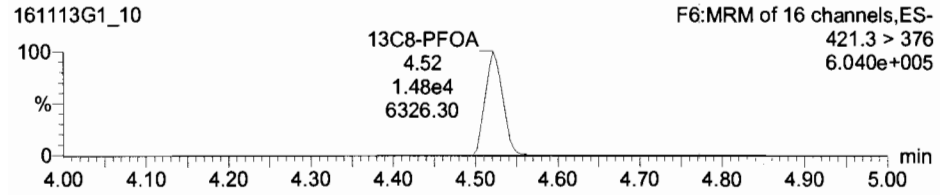

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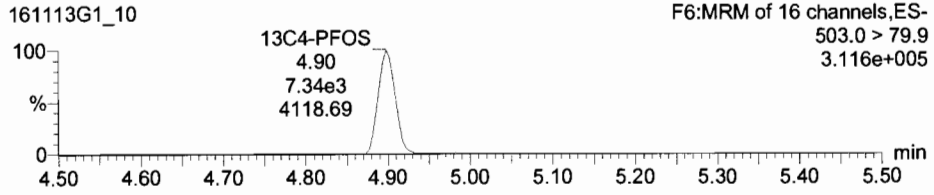

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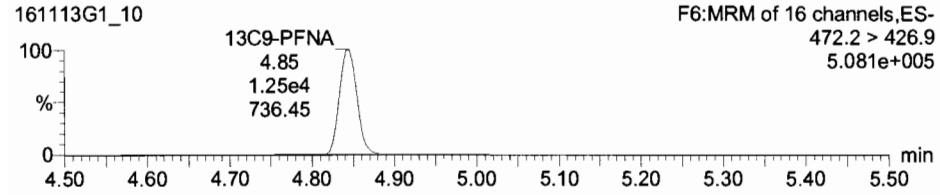

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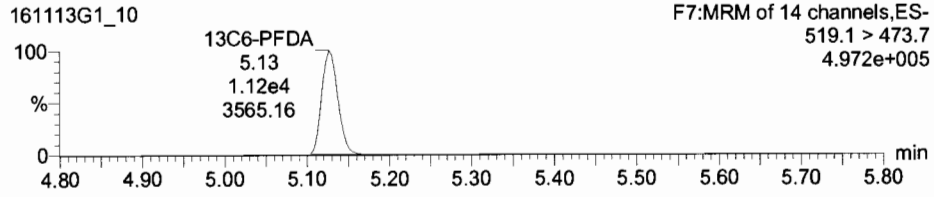

Quantify Sample Summary Report **MassLynx 4.1**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161113G1\161113G1-13.qld

Last Altered: Monday, November 14, 2016 09:38:30 Pacific Standard Time
Printed: Monday, November 14, 2016 09:39:42 Pacific Standard Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161113G1_13, Date: 13-Nov-2016, Time: 13:41:09, ID: SS161113G1-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1	PFBS	299 > 79.7	2.28e4	7.22e3		1.000	3.15	28.8	115.0
2	2	PFHxA	313.2 > 268.9	3.08e4	9.35e3		1.000	3.52	30.7	122.7
3	3	PFHpA	363 > 318.9	6.83e4	2.31e4		1.000	4.05	30.8	123.0
4	4	PFHxS	398.9 > 79.6	1.75e4	6.71e3		1.000	4.16	24.9	123 ~~99.6~~
5	5	PFOA	413 > 368.7	5.12e4	3.20e4		1.000	4.44	24.8	125 ~~99.0~~
6	6	PFOS	499 >79.9	5.76e3	4.36e3		1.000	4.83	22.8	116 ~~91.3~~
7	7	PFNA	463 > 418.8	4.47e4	1.12e4		1.000	4.77	31.2	124.9
8	8	PFDA	513 > 468.8	7.90e3	5.76e3		1.000	5.06	31.2	124.7
9	9	13C3-PFBS	302.0 > 98.8	7.22e3	3.14e4	0.250	1.000	3.15	11.5	92.0
10	10	13C2-PFHxA	315 > 269.8	9.35e3	3.14e4	0.741	1.000	3.52	5.02	100.4
11	11	13C4-PFHpA	367.2 > 321.8	2.31e4	1.21e4	2.077	1.000	4.05	11.5	92.3
12	12	18O2-PFHxS	403 > 102.6	6.71e3	1.21e4	0.603	1.000	4.16	11.5	92.3
13	13	13C2-PFOA	414.9 > 369.7	3.20e4	1.43e4	2.438	1.000	4.44	11.5	92.0
14	14	13C8-PFOS	507.0 > 79.9	4.36e3	4.59e3	1.055	1.000	4.83	11.2	90.0
15	15	13C5-PFNA	468.2 > 422.9	1.12e4	1.04e4	1.158	1.000	4.77	11.6	93.1
16	16	13C2-PFDA	515.1 > 469.9	5.76e3	4.97e3	1.164	1.000	5.06	12.5	99.6
17	17	13C5-PFHxA	318.0 > 272.9	3.14e4	3.14e4	1.000	1.000	3.52	12.5	100.0
18	18	13C3-PFHxS	401.9 > 79.9	1.21e4	1.21e4	1.000	1.000	4.16	12.5	100.0
19	19	13C8-PFOA	421.3 > 376	1.43e4	1.43e4	1.000	1.000	4.44	12.5	100.0
20	20	13C4-PFOS	503.0 > 79.9	4.59e3	4.59e3	1.000	1.000	4.83	12.5	100.0
21	21	13C9-PFNA	472.2 > 426.9	1.04e4	1.04e4	1.000	1.000	4.77	12.5	100.0
22	22	13C6-PFDA	519.1 > 473.7	4.97e3	4.97e3	1.000	1.000	5.06	12.5	100.0

75-125

DC
11/14/16

Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Monday, November 14, 2016 09:29:44 Pacific Standard Time
Printed: Monday, November 14, 2016 09:30:01 Pacific Standard Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-13-16_L14_A.cdb 14 Nov 2016 09:22:23

Name: 161113G1_13, Date: 13-Nov-2016, Time: 13:41:09, ID: SS161113G1-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

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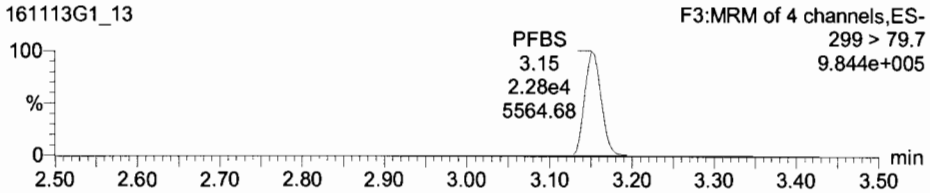
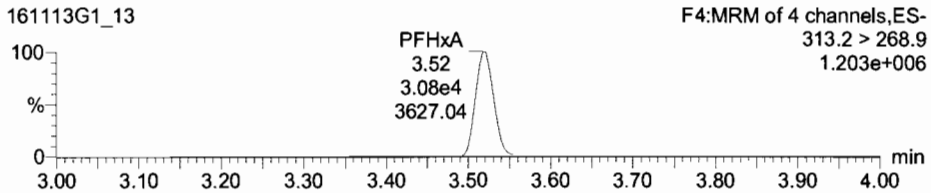


PFHxA



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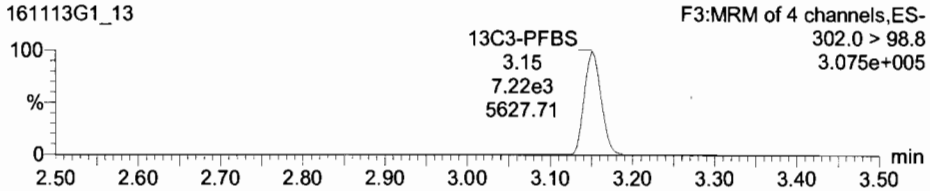

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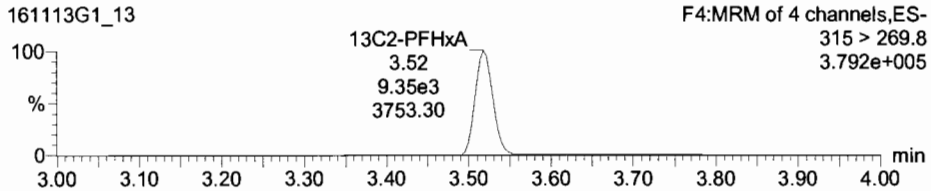
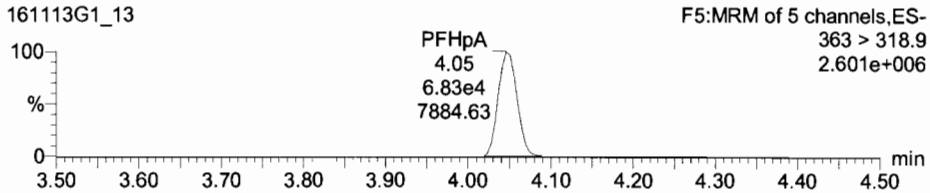
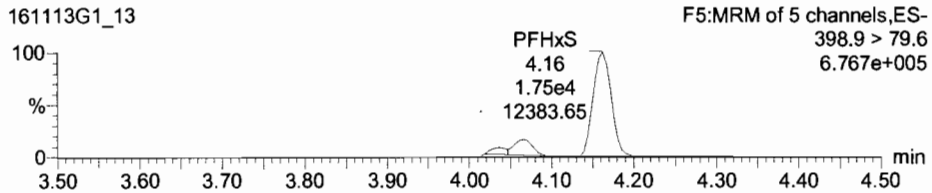


PFHpA



Total PFHxS



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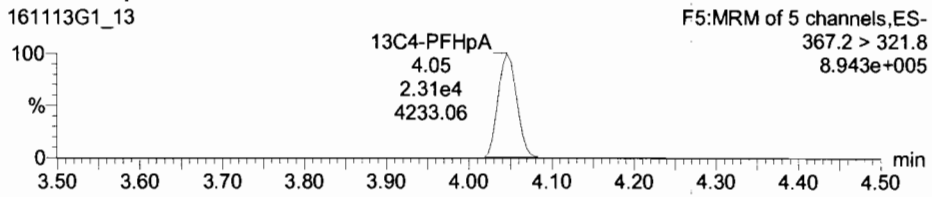
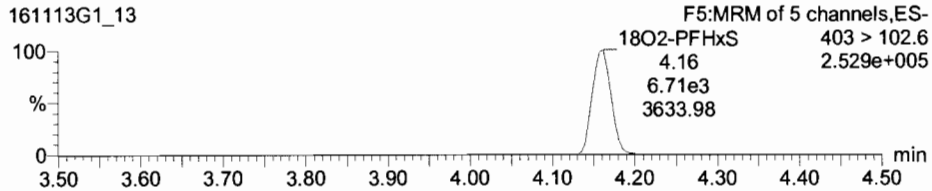


18O2-PFHxS



Vista Analytical Laboratory Q1

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Last Altered: Monday, November 14, 2016 09:29:44 Pacific Standard Time
Printed: Monday, November 14, 2016 09:30:01 Pacific Standard Time

Name: 161113G1_13, Date: 13-Nov-2016, Time: 13:41:09, ID: SS161113G1-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

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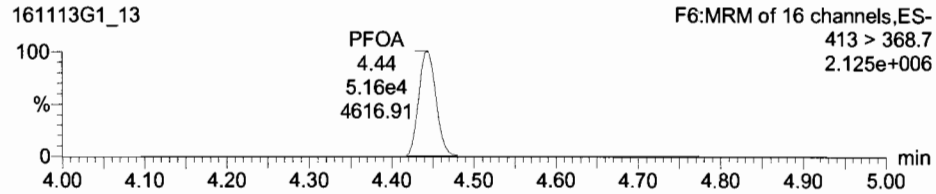

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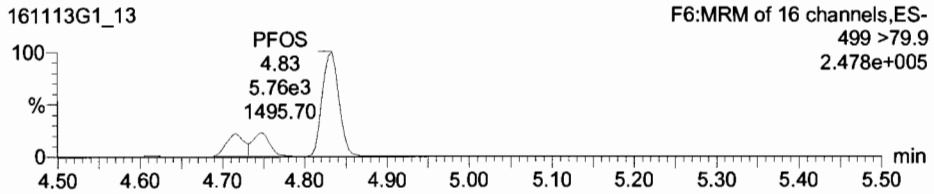

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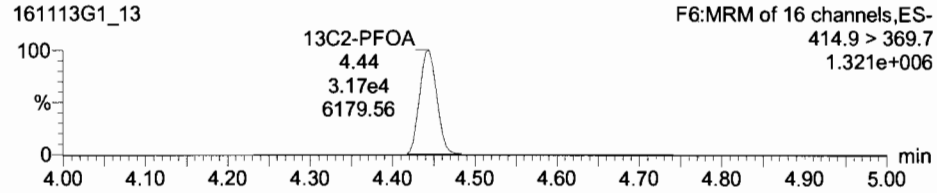

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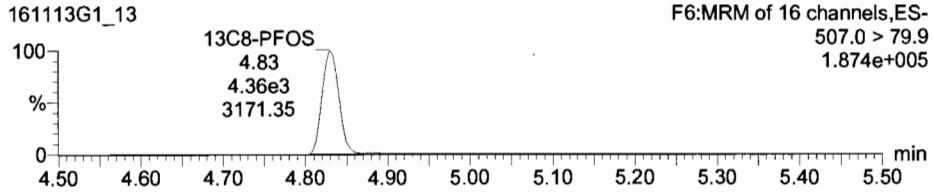
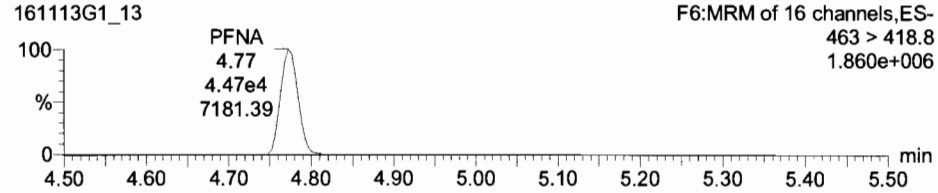
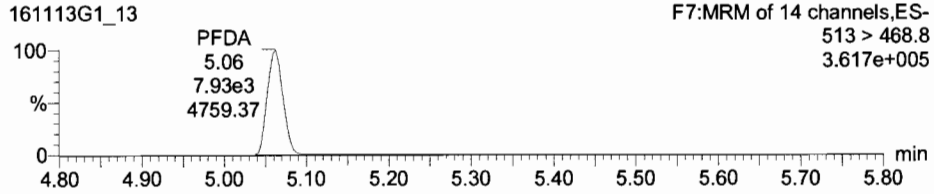


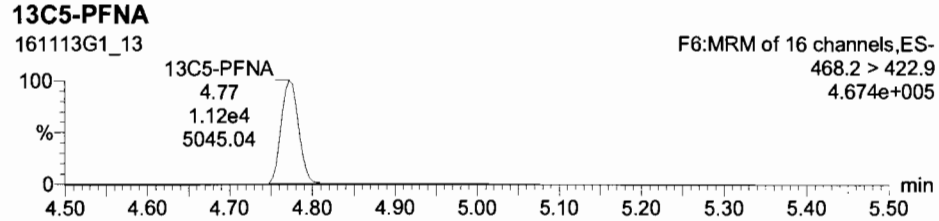
PFNA



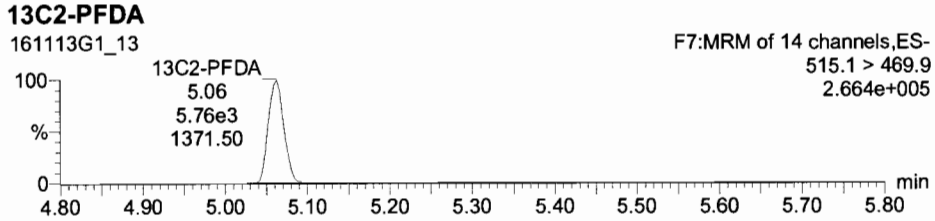
PFDA



13C5-PFNA



13C2-PFDA

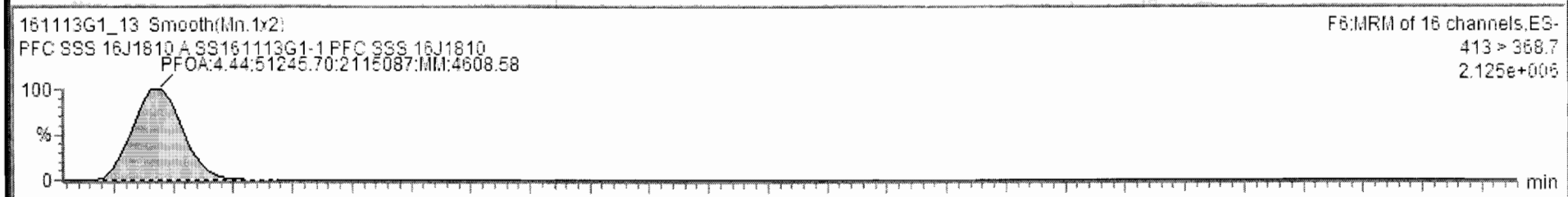


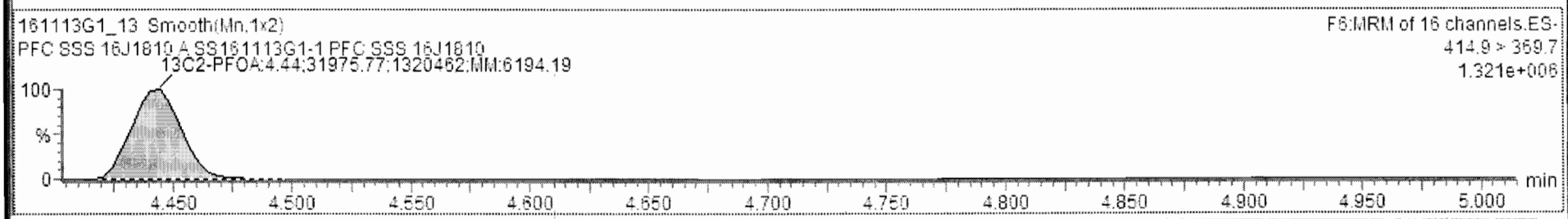
TargetLynx - 161113G1-13.qld - [Chromatogram]

File Edit View Display Processing Window Help

161113G1_13 - SS161113G1-1 PFC SSS 16J1810 - PFC SSS 16J1810 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBS	299 > 79.7	2.28e4		1.000	3.15	3.15	28.8	YES	115.0	0.0000000
2	PFHxA	313.2 > 268.9	3.08e4		1.000	3.52	3.52	30.7	YES	122.7	0.0000000
3	PFHpA	363 > 318.9	6.83e4		1.000	4.05	4.05	30.8	YES	123.0	0.0000000
4	PFHxS	398.9 > 79.6	1.75e4		1.000	4.16	4.16	24.9	YES	99.8	0.0000000
5	PFOA	413 > 368.7	5.12e4		1.000	4.44	4.44	24.8	YES	99.0	0.0000000
6	PFOS	499 >79.9	5.76e3		1.000	4.83	4.83	22.8	YES	91.3	0.1526328
7	PFNA	463 > 418.8	4.47e4		1.000	4.77	4.77	31.2	YES	124.9	0.0000000
8	PFDA	513 > 468.8	7.80e3		1.000	5.06	5.06	31.2	NO	124.7	0.0000000
9	13C3-PFBS	302.0 > 98.8	7.22e3	0.250	1.000	3.14	3.15	11.5	NO	92.0	0.0053520
10	13C2-PFHxA	315 > 269.8	9.35e3	0.741	1.000	3.52	3.52	5.02	NO	100.4	0.0033329
11	13C4-PFHpA	367.2 > 321.8	2.31e4	2.08	1.000	4.04	4.05	11.5	NO	92.3	0.0069201
12	18O2-PFHxS	403 > 102.6	6.71e3	0.603	1.000	4.16	4.16	11.5	NO	92.3	0.0078731
13	13C2-PFOA	414.9 > 369.7	3.20e4	2.44	1.000	4.44	4.44	11.5	NO	92.0	0.0045674
14	13C8-PFOS	507.0 > 79.9	4.36e3	1.06	1.000	4.83	4.83	11.2	NO	90.0	0.0090422
15	13C5-PFNA	468.2 > 422.9	1.12e4	1.16	1.000	4.77	4.77	11.6	NO	93.1	0.0059095
16	13C2-PFDA	515.1 > 469.9	5.76e3	1.16	1.000	5.06	5.06	12.5	NO	99.6	0.0228154
17	13C5-PFHxA	318.0 > 272.9	3.14e4	1.00	1.000	3.52	3.52	12.5	NO	100.0	0.0038206





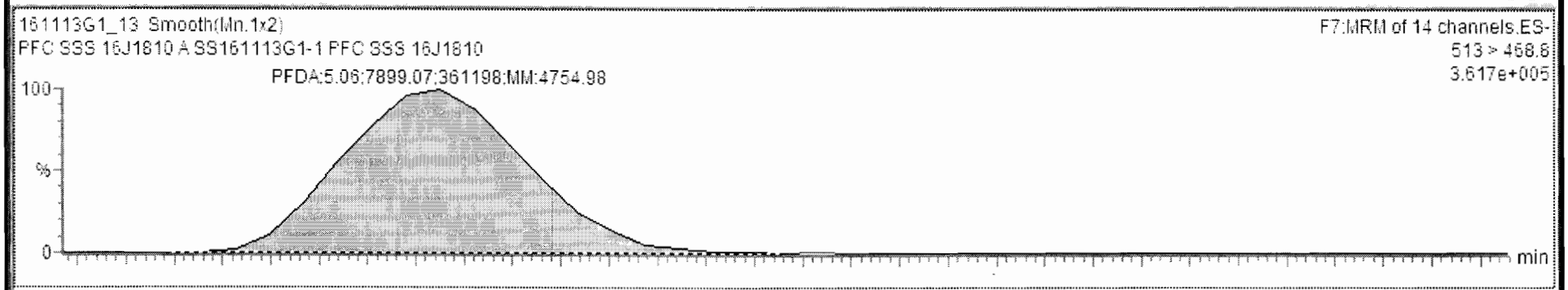
Ready 161113G1_13 CAP NUM

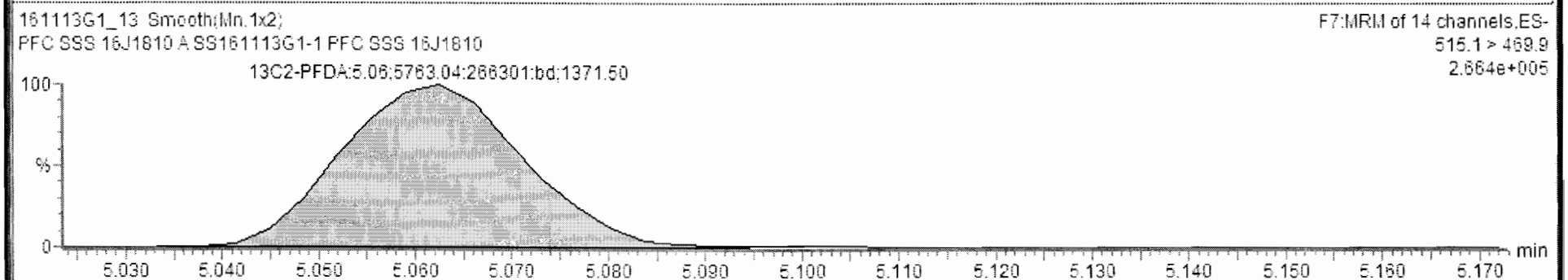
TargetLynx - untitled * - [Chromatogram]

File Edit View Display Processing Window Help

161113G1_13 - SS161113G1-1 PFC SSS 16J1810 - PFC SSS 16J1810 A

	Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	299 > 79.7	2.28e4	39.391	1.576	1.000	3.15	28.8	115.0	0.0000000		0.9869
2	PFHxA	313.2 > 268.9	3.08e4	18.448	0.658	1.000	3.52	30.7	122.7	0.0000000		0.9842
3	PFHpA	363 > 318.9	6.83e4	36.914	1.477	1.000	4.05	30.8	123.0	0.0000000		0.9869
4	PFHxS	398.9 > 79.6	1.75e4	32.580	1.303	1.000	4.16	24.9	99.8	0.0000000		0.9851
5	PFOA	413 > 368.7	5.16e4	20.317	0.813	1.000	4.44	25.1	100.4	0.0000000		0.9913
6	PFOS	499 >79.9	5.76e3	16.514	0.661	1.000	4.83	22.8	91.3	0.1528328		0.9951
7	PFNA	463 > 418.8	4.47e4	49.719	1.989	1.000	4.77	31.2	124.9	0.0000000		0.9827
8	PFDA	513 > 468.8	7.90e3	17.133	0.685	1.000	5.06	31.2	124.7	0.0000000		0.9861
9	13C3-PFBS	302.0 > 98.8	7.22e3	2.873	0.230	1.000	3.15	11.5	92.0	0.0053520	13.7	
10	13C2-PFHxA	315 > 269.8	9.35e3	3.720	0.744	1.000	3.52	5.02	100.4	0.0033329	12.8	
11	13C4-PFHpA	367.2 > 321.8	2.31e4	23.958	1.917	1.000	4.05	11.5	92.3	0.0069201	10.8	





Ready 161113G1_13 CAP NUM

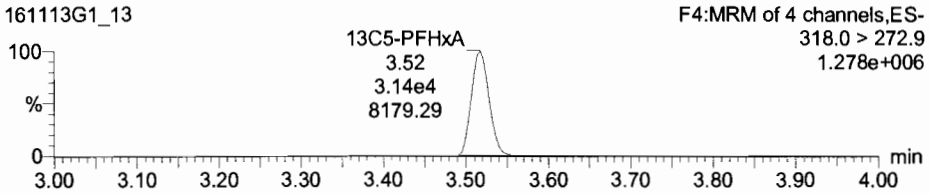
Vista Analytical Laboratory Q1

Dataset: Untitled

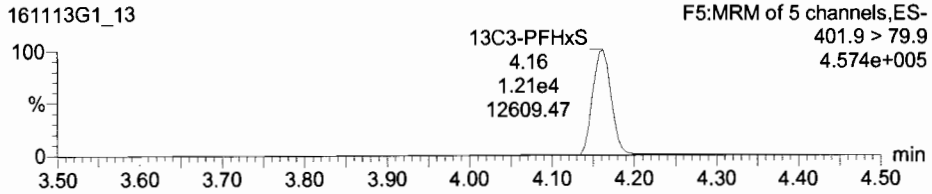
Last Altered: Monday, November 14, 2016 09:29:44 Pacific Standard Time
Printed: Monday, November 14, 2016 09:30:01 Pacific Standard Time

Name: 161113G1_13, Date: 13-Nov-2016, Time: 13:41:09, ID: SS161113G1-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

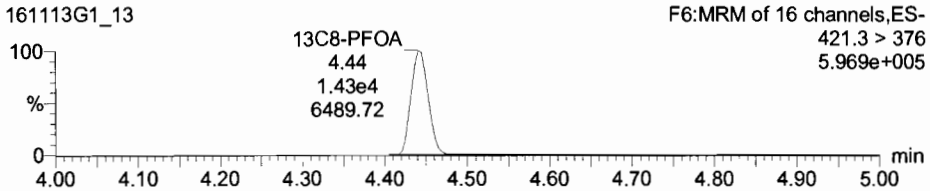
13C5-PFHxA



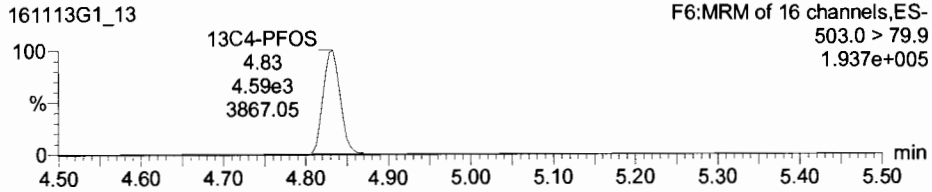
13C3-PFHxS



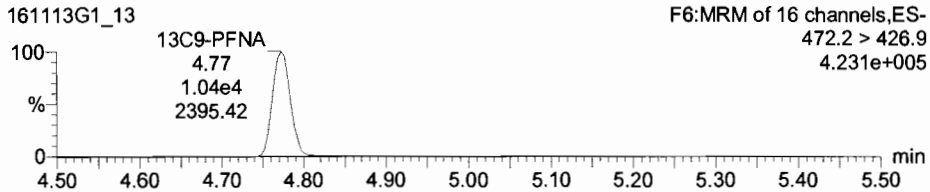
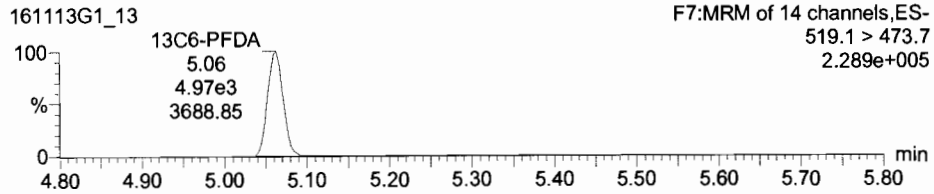
13C8-PFOA



13C4-PFOS



13C9-PFNA



13C6-PFDA