



**Off-base Drinking Water Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory
Report, Electronic Data Deliverable, Data Val-
idation Report, and the Sample Location Fig-
ure, SDG 1700430**

*Naval Air Station Whiting Field
Milton, Florida*

February 2019



April 19, 2017

Vista Work Order No. 1700430

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

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 08, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name '679580'.

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,

A handwritten signature in cursive script that reads "Martha Maier" followed by a small "for" and a line.

Martha Maier
Laboratory Director



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

Vista Work Order No. 1700430**Case Narrative****Sample Condition on Receipt:**

Two drinking water samples and two 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.

Analytical Notes:**EPA Method 537**

The drinking water and aqueous samples were extracted and analyzed for PFOA, PFOS, and PFBS using EPA Method 537.

Holding Times

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

Quality Control

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

A Laboratory Fortified Blank (LFB) and Method Blank were analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The LFB recoveries were within the method acceptance criteria.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1700430-01	WF-RW08-0417	07-Apr-17 10:07	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700430-02	WF-FB08-0417	07-Apr-17 10:08	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700430-03	WF-RW09-0417	07-Apr-17 10:58	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700430-04	WF-FB09-0417	07-Apr-17 10:59	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						EPA Method 537				
Matrix:	Drinking Water	QC Batch:	B7D0087			Lab Sample:	B7D0087-BLK1			
Sample Size:	0.250 L	Date Extracted:	18-Apr-2017 10:56			Date Analyzed:	18-Apr-17 22:43 Column: BEH C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	ND	3.49	10.0	20.0		SUR	13C2-PFHxA	89.4	70 - 130	
PFOA	ND	4.54	10.0	20.0		SUR	13C2-PFDA	91.9	70 - 130	
PFOS	ND	3.05	10.0	20.0						

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: LFB

EPA Method 537

Matrix:	Drinking Water	QC Batch:	B7D0087			Lab Sample:	B7D0087-BS1		
Sample Size:	0.250 L	Date Extracted:	18-Apr-2017 10:56			Date Analyzed:	18-Apr-17 22:18 Column: BEH C18		
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL	
PFBS	16.0	17.7	90.5	70 - 130	SUR	13C2-PFHxA	89.2	70 - 130	
PFOA	20.3	20.0	101	70 - 130	SUR	13C2-PFDA	89.9	70 - 130	
PFOS	16.2	18.5	87.9	70 - 130					

LCL-UCL - Lower control limit - upper control limit

Sample ID: WF-RW08-0417

EPA Method 537

Client Data			Sample Data			Laboratory Data					
Name:	CH2M Hill		Matrix:	Drinking Water		Lab Sample:	1700430-01		Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.266 L		QC Batch:	B7D0087		Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:07					Date Analyzed:	19-Apr-17 00:08 Column: BEH C18				
Location:	WF-RW08										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	3.58	3.28	9.40	18.8	J	SUR 13C2-PFHxA		89.0	70 - 130		
PFOA	ND	4.27	9.40	18.8		SUR 13C2-PFDA		108	70 - 130		
PFOS	ND	2.87	9.40	18.8							

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: WF-FB08-0417							EPA Method 537				
Client Data			Sample Data			Laboratory Data					
Name:	CH2M Hill		Matrix:	Aqueous		Lab Sample:	1700430-02		Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.281 L		QC Batch:	B7D0087		Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:08					Date Analyzed:	19-Apr-17 00:21		Column:	BEH C18	
Location:	n/a										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	ND	3.10	8.88	17.8		SUR	13C2-PFHxA	86.7	70 - 130		
PFOA	ND	4.03	8.88	17.8		SUR	13C2-PFDA	93.9	70 - 130		
PFOS	ND	2.71	8.88	17.8							

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: WF-RW09-0417

EPA Method 537

Client Data			Sample Data			Laboratory Data					
Name:	CH2M Hill		Matrix:	Drinking Water		Lab Sample:	1700430-03		Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.280 L		QC Batch:	B7D0087		Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:58					Date Analyzed:	19-Apr-17 00:33 Column: BEH C18				
Location:	WF-RW09										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	ND	3.12	8.93	17.9		SUR	13C2-PFHxA	82.3	70 - 130		
PFOA	ND	4.05	8.93	17.9		SUR	13C2-PFDA	83.9	70 - 130		
PFOS	ND	2.72	8.93	17.9							

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: WF-FB09-0417						EPA Method 537			
Client Data			Sample Data			Laboratory Data			
P ame: Cq 2M q ill j ru.ect: 679580 Date Collected: 07-Apr-2017 10:59 Lucatium: n/a			Matrix: As HeuHR Sample Size: 048o L			Lab Sample: 1700o30-0o Date v eceiNed: 08-Apr-2017 9:27 QC Batch: B7D0087 Date Extracted: 18-Apr-2017 10:56 Date Analyzed: 19-Apr-17 00:o5 CulHmn: BEq C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j FBS	P D	3408	841	1746		SUv 13C2-j Fq xA	8o45	70 - 130	
j FOA	P D	o400	841	1746		SUv 13C2-j FDA	9645	70 - 130	
j FOS	P D	2469	841	1746					

DL - Detectiun limit
 v L - v eputing limit

LCL-UCL - Luwer cuntrl limit - Hpper cuntrl limit
 v eNtRreputed tu DL4
 When repurted, j FBS, j Fq xS, j FOA and j FOS inclHle both linear and branched iRumerR4
 Only the linear iRumer iRreputed fur all uther analyteR4

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The associated compound concentration exceeded the calibration range of the instrument.
H	Recovery and/or RPD was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
Nevada Division of Environmental Protection	CA004132017-1
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

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

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

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

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

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

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

CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: WR-2 1700430 Temp: 0.4 °C
 Storage ID: _____ Storage Secured: Yes ☐ No ☒

Project ID: 679580 P.O.#: 100067106051 Sampler: John Towns
 (name)

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

Invoice to: Name Katie Tippin Company CH2M Address _____ City _____ State _____ Ph# 757-831-1113 Fax# _____

Relinquished by (printed name and signature) John Towns Date 4/7/17 Time 1400 Received by (printed name and signature) Benedict B. Benedict Date 04/08/17 Time 0933
 Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

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

ATTN: Martha Maier

Method of Shipment: Fed Ex

Tracking No.: _____

Add Analysis(es) Requested

Container(s)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TC	2378 TC	PCDD/F	2378-TC	2378-TC	PCDD/F	2378-TC	2378 TC	PCDD/F	TOTALS	COPLAN	209 CON	PBDE	PAH	WHO-29	Mod. EPA	Comments
WF-RW08-0417	4/7/17	1007	WF-RW08	2	O	DW																X	
WF-FB08-0417	4/7/17	1008	n/a	2	O	AQ																X	
WF-RW09-0417	4/7/17	1058	WF-RW09	2	O	DW																X	
WF-FB09-0417	4/7/17	1059	n/a	2	O	AQ																X	

Special Instructions/Comments: _____

SEND
DOCUMENTATION
AND RESULTS TO:

Name: Katie Tippin
 Company: CH2M
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: 757-831-1113 Fax: _____
 Email: Katie.tippin@ch2m.com

Container Types: A = 1 Liter Amber, G = Glass Jar

P = PUF, T = MM5, O = Other: HDPE

Work Order 1700430

Bottle Preservation Type: T = Thiosulfate,

O = Other: Trizma

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,

SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: _____

SAMPLE LOG-IN CHECKLIST



Vista Project #:

1700430

TAT

7

Samples Arrival:	Date/Time	Initials:	Location:
	04/08/17 0927	URB	WR-2
Logged In:	Date/Time	Initials:	Location:
	04/08/17 1035	URB	WR-2
Delivered By:	FedEx	UPS	On Trac
	DHL	Hand Delivered	Other
Preservation:	Ice	Blue Ice	Dry Ice
			None
Temp °C:	0.1 (uncorrected)	Time: 0933	Thermometer ID: IR-1
Temp °C:	0.4 (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 # 7860 0439 4550	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	✓		
Preservation Documented:	Na ₂ S ₂ O ₃	Trizma	Yes
Shipping Container	Vista	Client	Retain
		Return	Dispose

Comments:



April 19, 2017

Vista Work Order No. 1700430

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

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 08, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name '679580'.

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,

A handwritten signature in black ink that reads "Karen Lopez" followed by a small "for" and a line.

Martha Maier
Laboratory Director



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

Vista Work Order No. 1700430**Case Narrative****Sample Condition on Receipt:**

Two drinking water samples and two 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.

Analytical Notes:**EPA Method 537**

The drinking water and aqueous samples were extracted and analyzed for PFOA, PFOS, and PFBS using EPA Method 537.

Holding Times

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

Quality Control

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

A Laboratory Fortified Blank (LFB) and Method Blank were analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The LFB recoveries were within the method acceptance criteria.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1700430-01	WF-RW08-0417	07-Apr-17 10:07	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700430-02	WF-FB08-0417	07-Apr-17 10:08	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700430-03	WF-RW09-0417	07-Apr-17 10:58	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700430-04	WF-FB09-0417	07-Apr-17 10:59	08-Apr-17 09:27	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						EPA Method 537			
Matrix: Drinking Water Sample Size: 0.250 L		QC Batch: B7D0087 Date Extracted: 18-Apr-2017 10:56				Lab Sample: B7D0087-BLK1 Date Analyzed: 18-Apr-17 22:43 Column: BEH C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	3.49	10.0	20.0		SUR 13C2-PFHxA	89.4	70 - 130	
PFOA	ND	4.54	10.0	20.0		SUR 13C2-PFDA	91.9	70 - 130	
PFOS	ND	3.05	10.0	20.0					

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: LFB

EPA Method 537

Matrix: Drinking Water	QC Batch: B7D0087	Lab Sample: B7D0087-BS1					
Sample Size: 0.250 L	Date Extracted: 18-Apr-2017 10:56	Date Analyzed: 18-Apr-17 22:18 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	16.0	17.7	90.5	70 - 130	SUR 13C2-PFHxA	89.2	70 - 130
PFOA	20.3	20.0	101	70 - 130	SUR 13C2-PFDA	89.9	70 - 130
PFOS	16.2	18.5	87.9	70 - 130			

LCL-UCL - Lower control limit - upper control limit

Sample ID: WF-RW08-0417

EPA Method 537

Client Data			Sample Data			Laboratory Data					
Name:	CH2M Hill		Matrix:	Drinking Water		Lab Sample:	1700430-01		Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.266 L		QC Batch:	B7D0087		Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:07					Date Analyzed:	19-Apr-17 00:08 Column: BEH C18				
Location:	WF-RW08										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	3.58	3.28	9.40	18.8	J	SUR 13C2-PFHxA		89.0	70 - 130		
PFOA	ND	4.27	9.40	18.8		SUR 13C2-PFDA		108	70 - 130		
PFOS	ND	2.87	9.40	18.8							

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: WF-FB08-0417							EPA Method 537			
Client Data			Sample Data			Laboratory Data				
Name: CH2M Hill			Matrix: Aqueous			Lab Sample: 1700430-02		Date Received: 08-Apr-2017 9:27		
Project: 679580			Sample Size: 0.281 L			QC Batch: B7D0087		Date Extracted: 18-Apr-2017 10:56		
Date Collected: 07-Apr-2017 10:08						Date Analyzed: 19-Apr-17 00:21 Column: BEH C18				
Location: n/a										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	ND	3.10	8.88	17.8		SUR	13C2-PFHxA	86.7	70 - 130	
PFOA	ND	4.03	8.88	17.8		SUR	13C2-PFDA	93.9	70 - 130	
PFOS	ND	2.71	8.88	17.8						

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: WF-RW09-0417

EPA Method 537

Client Data			Sample Data			Laboratory Data					
Name:	CH2M Hill		Matrix:	Drinking Water		Lab Sample:	1700430-03		Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.280 L		QC Batch:	B7D0087		Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:58					Date Analyzed:	19-Apr-17 00:33 Column: BEH C18				
Location:	WF-RW09										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	ND	3.12	8.93	17.9		SUR	13C2-PFHxA	82.3	70 - 130		
PFOA	ND	4.05	8.93	17.9		SUR	13C2-PFDA	83.9	70 - 130		
PFOS	ND	2.72	8.93	17.9							

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: WF-FB09-0417						EPA Method 537			
Client Data			Sample Data			Laboratory Data			
Name: Cq 2M q ill Project: 679580 Date Collected: 07-Apr-2017 10:59 Location: n/a			Matrix: As HeuHR Sample Size: 0.280 L			Lab Sample: 1700030-00 Date received: 08-Apr-2017 9:27 QC Batch: B7D0087 Date Extracted: 18-Apr-2017 10:56 Date Analyzed: 19-Apr-17 00:05 Culin: BEq C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j FBS	PD	348	841	1746		SUv 13C2-j Fq xA	8045	70 - 130	
j FOA	PD	400	841	1746		SUv 13C2-j FDA	9645	70 - 130	
j FOS	PD	249	841	1746					

DL - Detectiun limit
 v L - v eputing limit

LCL-UCL - Luwer cuntrl limit - Hpper cuntrl limit
 v eRtRreputed tu DL4
 When repurted, j FBS, j Fq xS, j FOA and j FOS inclHle both linear and branched iRumerR4
 Only the linear iRumer iRreputed fur all uthr analyteR4

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The associated compound concentration exceeded the calibration range of the instrument.
H	Recovery and/or RPD was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
Nevada Division of Environmental Protection	CA004132017-1
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

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

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

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

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

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

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

CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: WR-2 1700430 Temp: 0.4 °C
 Storage ID: _____ Storage Secured: Yes ☐ No ☒

Project ID: 679580 P.O.#: 100067106051 Sampler: John Towns
 (name)

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

Invoice to: Name Katie Tippin Company CH2M Address _____ City _____ State _____ Ph# 757-831-1113 Fax# _____

Relinquished by (printed name and signature) John Towns Date 4/7/17 Time 1400 Received by (printed name and signature) Benedict B. Benedict Date 04/08/17 Time 0933
 Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

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

ATTN: Martha Maier

Method of Shipment: Fed Ex

Tracking No.: _____

Add Analysis(es) Requested

Container(s)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TC	2378 TC	PCDD/F	2378-TC	2378-TC	PCDD/F	2378-TC	2378 TC	PCDD/F	TOTALS	COPLAN	209 CON	PBDE	PAH	WHO-29	Mod. EPA	Comments
WF-RW08-0417	4/7/17	1007	WF-RW08	2	O	DW																X	
WF-FB08-0417	4/7/17	1008	n/a	2	O	AQ																X	
WF-RW09-0417	4/7/17	1058	WF-RW09	2	O	DW																X	
WF-FB09-0417	4/7/17	1059	n/a	2	O	AQ																X	

Special Instructions/Comments: _____

SEND
DOCUMENTATION
AND RESULTS TO:

Name: Katie Tippin
 Company: CH2M
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: 757-831-1113 Fax: _____
 Email: Katie.tippin@ch2m.com

Container Types: A = 1 Liter Amber, G = Glass Jar

P = PUF, T = MM5, O = Other: HDPE

Work Order 1700430

Bottle Preservation Type: T = Thiosulfate,

O = Other: Trizma

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,

SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: _____

SAMPLE LOG-IN CHECKLIST



Vista Project #:

1700430

TAT

7

Samples Arrival:	Date/Time		Initials:		Location:	
	04/08/17 0927		[Signature]		WR-2	
Logged In:	Date/Time		Initials:		Location:	
	04/08/17 1035		[Signature]		WR-2	
Delivered By:	☒ FedEx	☐ UPS	☐ On Trac	☐ DHL	☐ Hand Delivered	☐ Other
Preservation:	☒ Ice		☐ Blue Ice		☐ Dry Ice	
Temp °C:	0.1 (uncorrected)	Time: 0933		Thermometer ID: IR-1		
Temp °C:	0.4 (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 #	7860 0439 4550		
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:	☒ Yes	☐ No	☐ NA
Shipping Container	☒ Vista	☐ Client	☐ Retain
	☐ Return	☐ Dispose	

Comments:

EXTRACTION INFORMATION

Process Sheet
Workorder: **1700430**

RX

Prep Expiration: 2017-Apr-21
Client: CH2M Hill

Workorder Due: 17-Apr-17 00:00

TAT: 9

Method: **537 PFAS DW DoD Unmodified**
Matrix: **Drinking Water**

Prep Batch: B7D0087

Prep Data Entered: BP 4.19.17
Date and Initials

Version: PFOA, PFOS, & PFBS

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700430-01	☒	WF-RW08-0417	08-Apr-17 09:27	WR-2 E-5	
1700430-02	☒	WF-FB08-0417	08-Apr-17 09:27	WR-2 E-5	
1700430-03	☒	WF-RW09-0417	08-Apr-17 09:27	WR-2 E-5	
1700430-04	☒	WF-FB09-0417	08-Apr-17 09:27	WR-2 E-5	

Spike CRP at 10ng/L (10ng/L) 20µL of 17D1230 (0.25ng/mL)

Vista PM: Martha Maier

Vial Box ID: Monkey Business

Sample Reconciled By: BP

4/18/17

PREPARATION BENCH SHEET

Matrix: Drinking Water

Method: 537 PFAS DW DoD Unmodified

B7D0087

Chemist: J. Stockman

Prep Date/Time: 18-Apr-17 10:56

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	SS IS/NS CHEM/WIT DATE	C7D0079 SPE	RS CHEM/WIT DATE
☐	B7D0087-BLK ②	N/A	N/A	(0.250)	JS BP 4/18/17	HC BP 4/18/17	BP HC 4/18/17
☐	B7D0087-BS1 ↓	↓	↓	↓	↓	↓	↓
☐	1700430-01RE1	293.21	27.30	0.26591	↓	↓	↓
☐	1700430-02RE1	307.65	26.22	0.28143	↓	↓	↓
☐	1700430-03RE1	306.73	26.75	0.27998	↓	↓	↓
☐	1700430-04RE1	309.77	26.11	0.28366	↓	↓	↓

② Added 0.625g Trizma to QCs BP 4-18-17

SS JS Name 1700730, SOLV Ⓟ	NS Name 1701230, 20uL	RS Name 1701230, 20uL Ⓟ	SPE Chem: Strata X 33µm 500mg/6mL Ele SOLV: MeOH Final Volume(s): 1mL	Check Out: BP 4-18-18 Chemist/Date: Check In: N/A Chemist/Date: Balance ID: HANS-8
-------------------------------------	--------------------------	-------------------------------	---	--

Comments: Assume 1 g = 1 mL

Batch: B7D0087

Matrix: Drinking Water

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1700430-01RE1	0.26591✓	NA	NA	1000	18-Apr-17 10:56	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700430-02RE1	0.28143✓			1000	18-Apr-17 10:56	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700430-03RE1	0.27998✓			1000	18-Apr-17 10:56	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700430-04RE1	0.28366✓			1000	18-Apr-17 10:56	BAP			Drinking Water	537 PFAS DW DoD Unmoc
B7D0087-BLK1	0.25 /	↓	↓	1000	18-Apr-17 10:56	BAP				QC
B7D0087-BS1	0.25 /	↓	↓	1000	18-Apr-17 10:56	BAP	17D1230	20✓		QC

BP 4.3
4.19.17

SAMPLE DATA –EPA METHOD 537

Dataset: U:\Q2.PRO\Results\New folder\170418L1-30.qld

Last Altered: Wednesday, April 19, 2017 10:37:32 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:38:00 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: B7D0087-BLK1, Description: LRB, Name: 170418L1_30.wiff, Date: 18-Apr-2017, Time: 22:43:00

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	79.90		1.386e4		0.250			
2	5 PFOA	368.90		2.033e4		0.250			
3	7 PFOS	79.92	1.175e1	1.386e4		0.250	5.04	0.0819	
4	15 13C2-PFHxA	269.90	1.350e4	2.033e4	0.742	0.250	3.78	35.8	89.4
5	16 13C2-PFDA	470.00	1.265e4	2.033e4	0.678	0.250	5.26	36.7	91.9
6	18 13C2-PFOA	369.90	2.033e4	2.033e4	1.000	0.250	4.66	40.0	100
7	19 13C4-PFOS	79.93	1.386e4	1.386e4	1.000	0.250	5.04	115	100

Dataset: U:\Q2.PRO\Results\New folder\170418L1-30.qld

Last Altered: Wednesday, April 19, 2017 10:37:32 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:38:00 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

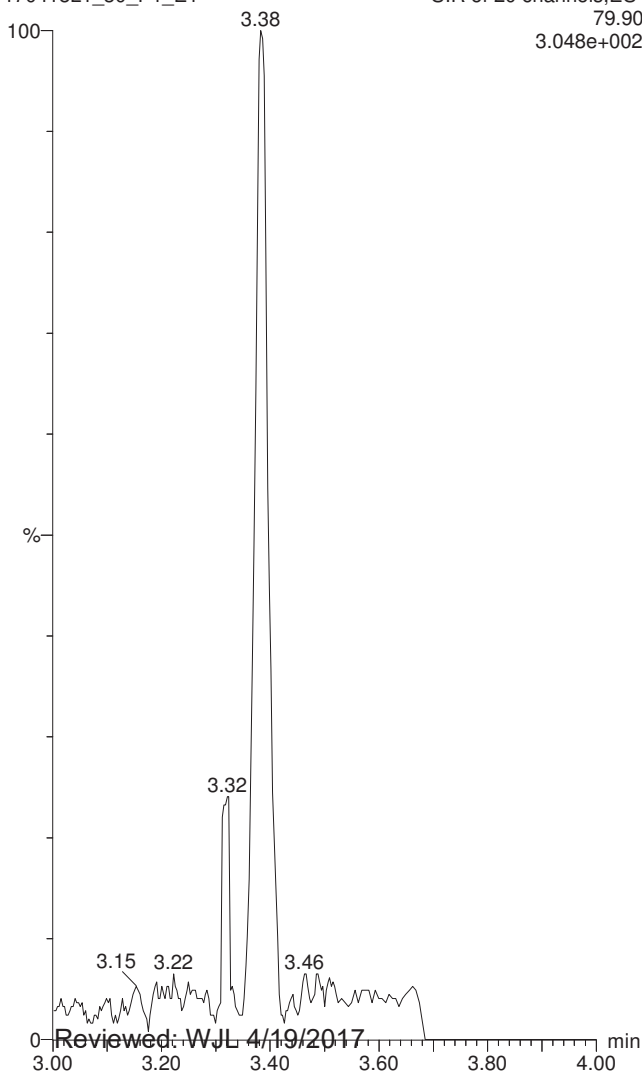
Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: B7D0087-BLK1, Description: LRB, Name: 170418L1_30.wiff, Date: 18-Apr-2017, Time: 22:43:00, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

170418L1_30_P1_E1

SIR of 20 channels,ES-
79.90
3.048e+002

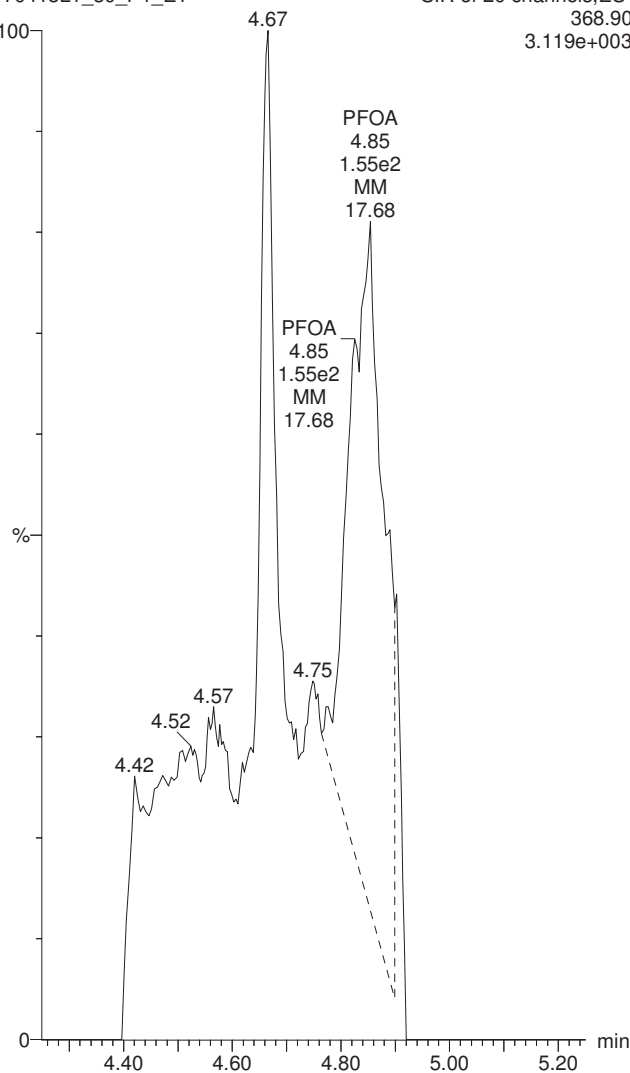


Work Order 1700430

PFOA

170418L1_30_P1_E1

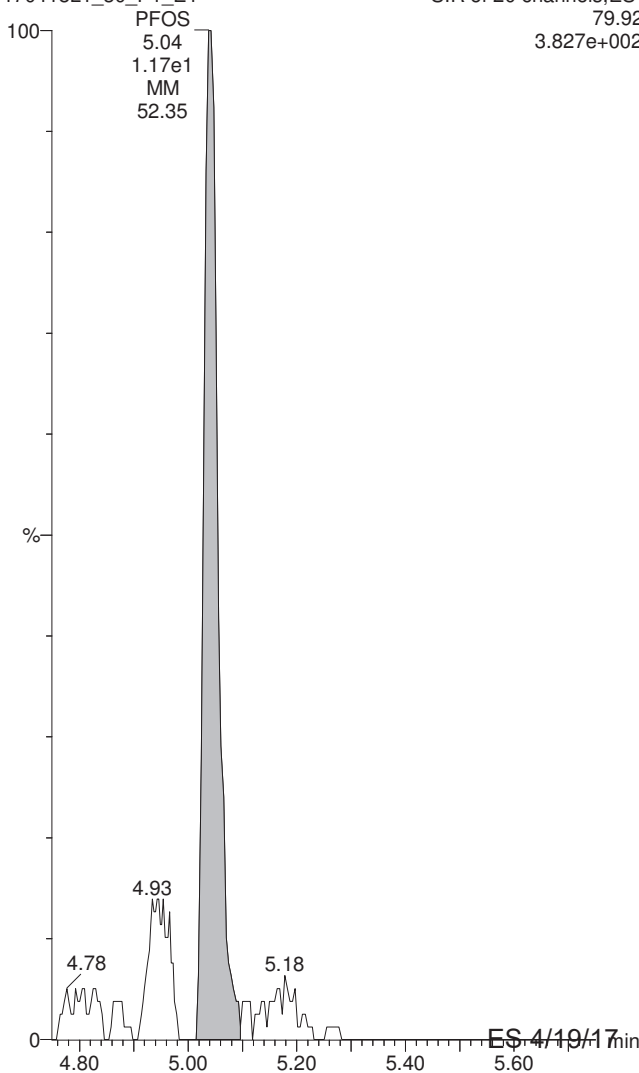
SIR of 20 channels,ES-
368.90
3.119e+003



PFOS

170418L1_30_P1_E1

SIR of 20 channels,ES-
79.92
3.827e+002



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Dataset: U:\Q2.PRO\Results\New folder\170418L1-30.qld

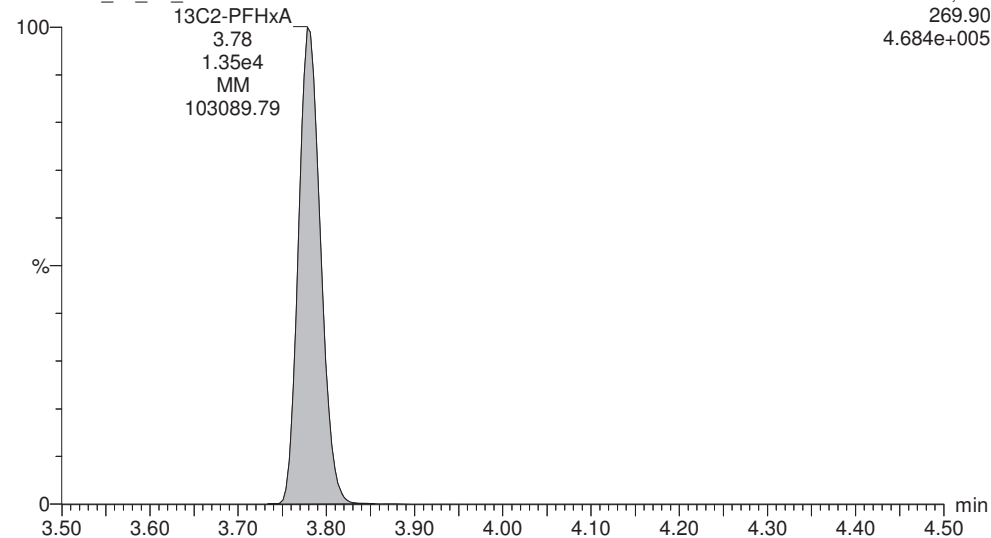
Last Altered: Wednesday, April 19, 2017 10:37:32 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:38:00 Pacific Daylight Time

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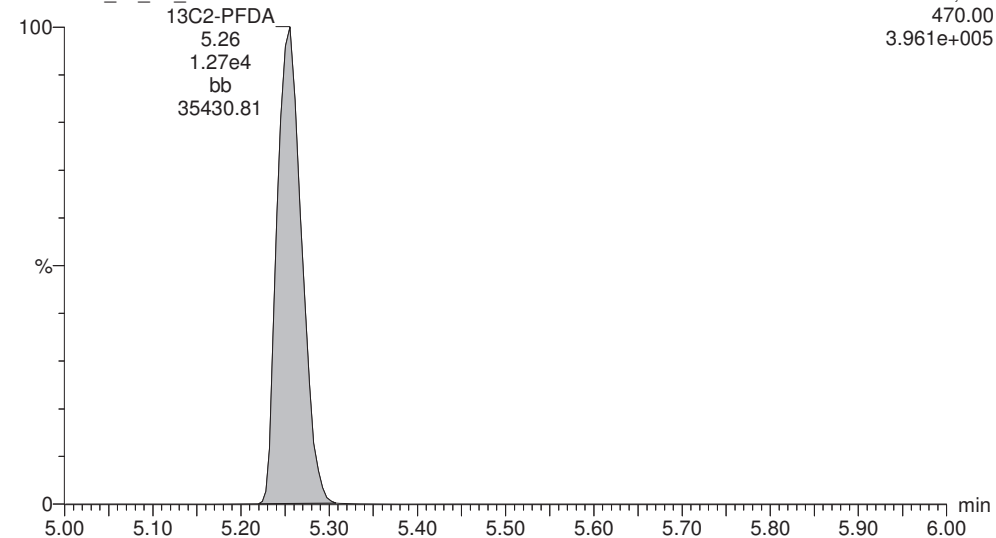
13C2-PFHxA

170418L1_30_P1_E1



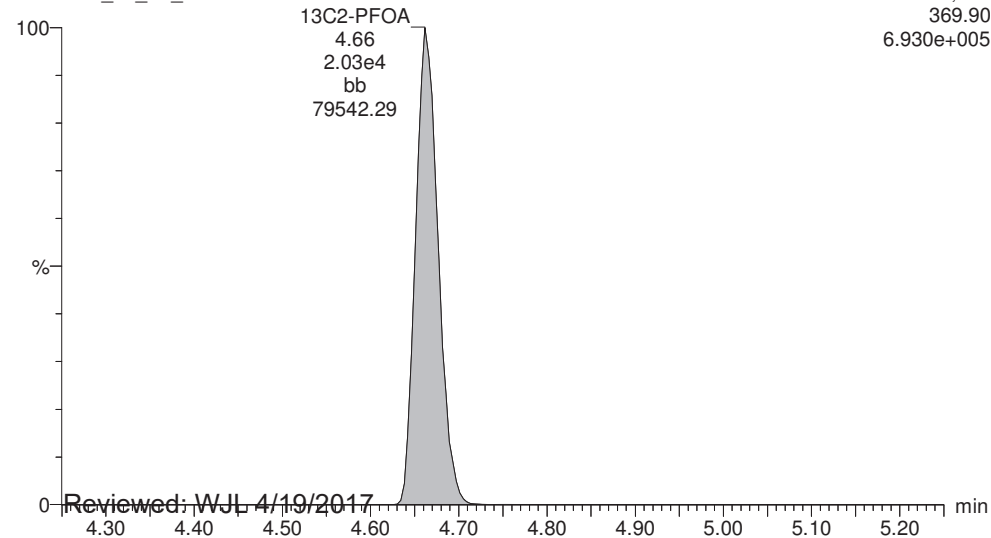
13C2-PFDA

170418L1_30_P1_E1



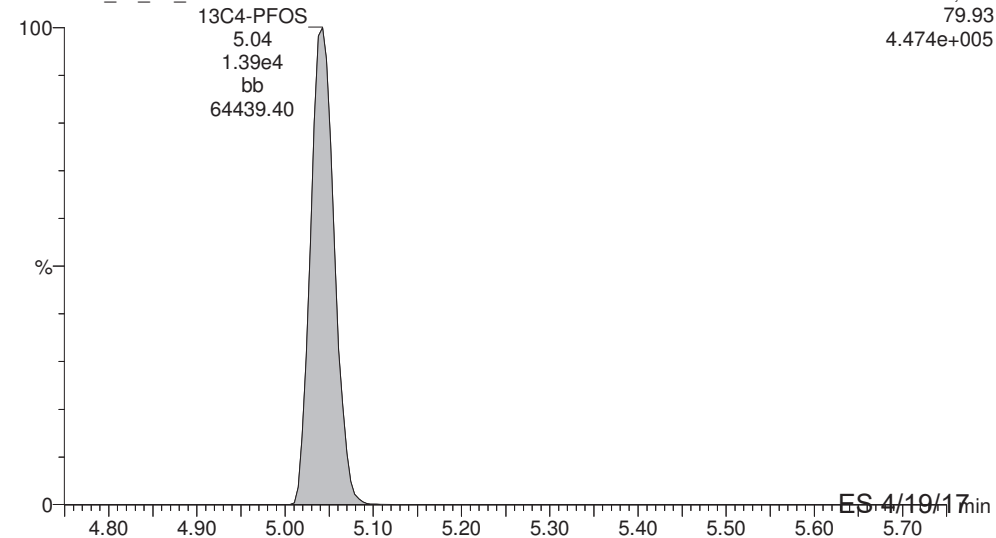
13C2-PFOA

170418L1_30_P1_E1



13C4-PFOS

170418L1_30_P1_E1



Reviewed: WJL 4/19/2017

ES 4/19/17

Dataset: U:\Q2.PRO\Results\New folder\170418L1-28.qld

Last Altered: Wednesday, April 19, 2017 10:28:50 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:30:29 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: B7D0087-BS1, Description: LFB, Name: 170418L1_28.wiff, Date: 18-Apr-2017, Time: 22:18:31

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	79.90	4.075e3	1.779e4		0.250	3.52	16.0	90.5
2	5 PFOA	368.90	9.813e3	2.344e4		0.250	4.76	20.3	101
3	7 PFOS	79.92	2.942e3	1.779e4		0.250	5.11	16.2	87.6
4	15 13C2-PFHxA	269.90	1.552e4	2.344e4	0.742	0.250	3.87	35.7	89.2
5	16 13C2-PFDA	470.00	1.427e4	2.344e4	0.678	0.250	5.33	35.9	89.9
6	18 13C2-PFOA	369.90	2.344e4	2.344e4	1.000	0.250	4.75	40.0	100
7	19 13C4-PFOS	79.93	1.779e4	1.779e4	1.000	0.250	5.11	115	100

Dataset: U:\Q2.PRO\Results\New folder\170418L1-28.qld

Last Altered: Wednesday, April 19, 2017 10:28:50 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:30:29 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13
Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

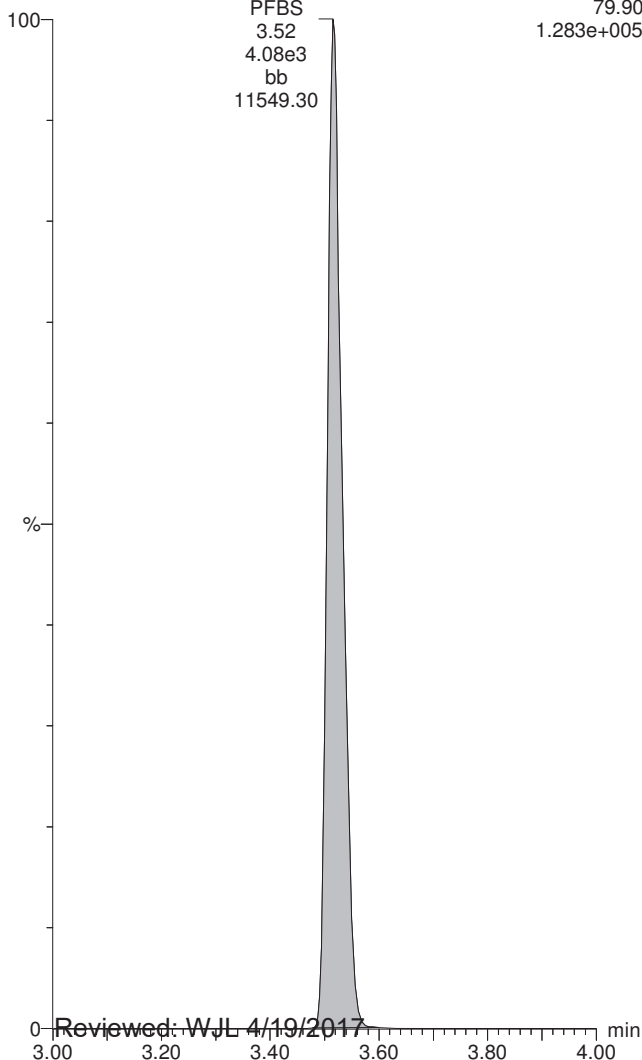
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PFBS

170418L1_28_P1_E1

PFBS
3.52
4.08e3
bb
11549.30

SIR of 20 channels,ES-
79.90
1.283e+005

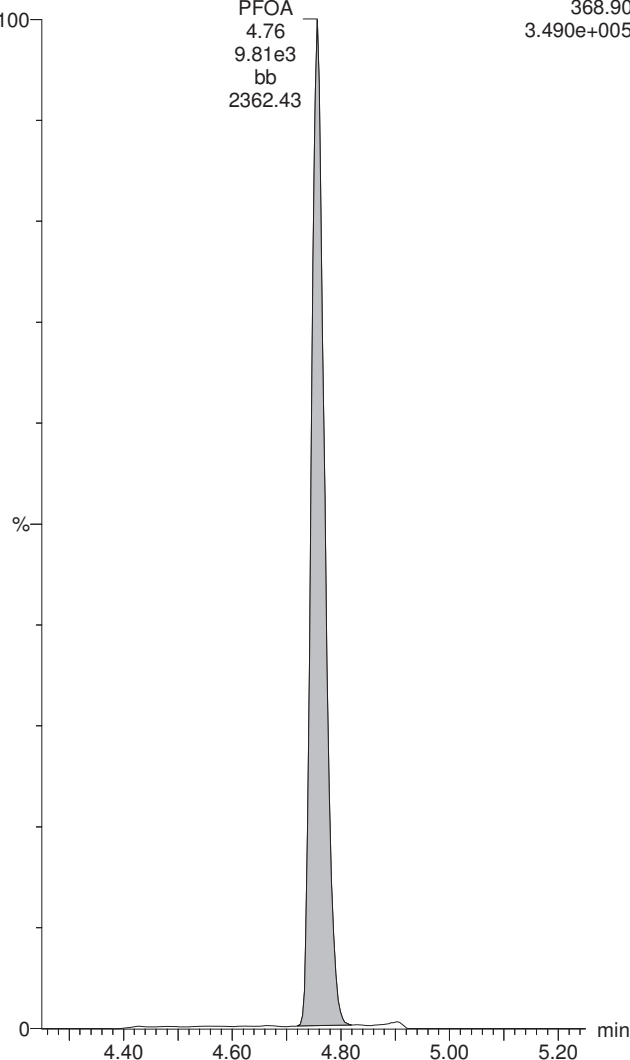


PFOA

170418L1_28_P1_E1

PFOA
4.76
9.81e3
bb
2362.43

SIR of 20 channels,ES-
368.90
3.490e+005

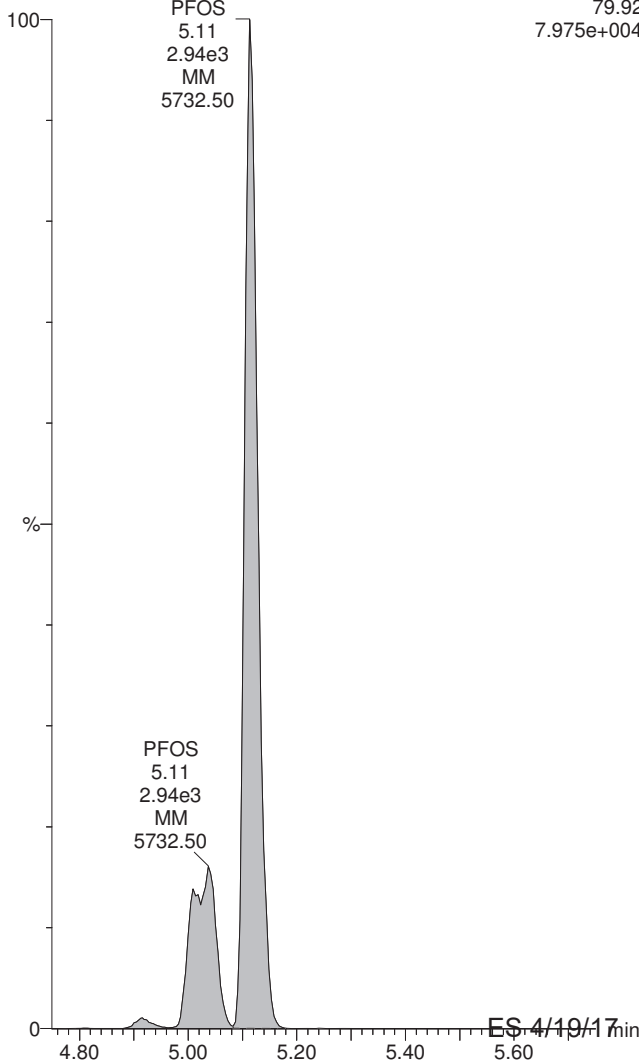


PFOS

170418L1_28_P1_E1

PFOS
5.11
2.94e3
MM
5732.50

SIR of 20 channels,ES-
79.92
7.975e+004



Reviewed: WJL 4/19/2017

Work Order 1700430

ES 4/19/17

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Dataset: U:\Q2.PRO\Results\New folder\170418L1-28.qld

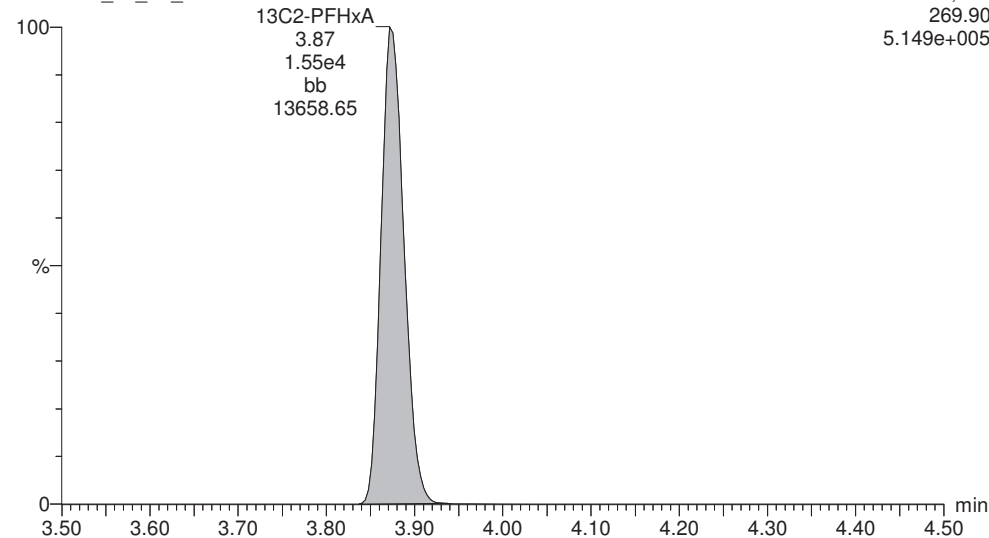
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Printed: Wednesday, April 19, 2017 10:30:29 Pacific Daylight Time

ID: B7D0087-BS1, Description: LFB, Name: 170418L1_28.wiff, Date: 18-Apr-2017, Time: 22:18:31, Instrument: , Lab: ©PE-SCIEX, User: sciex

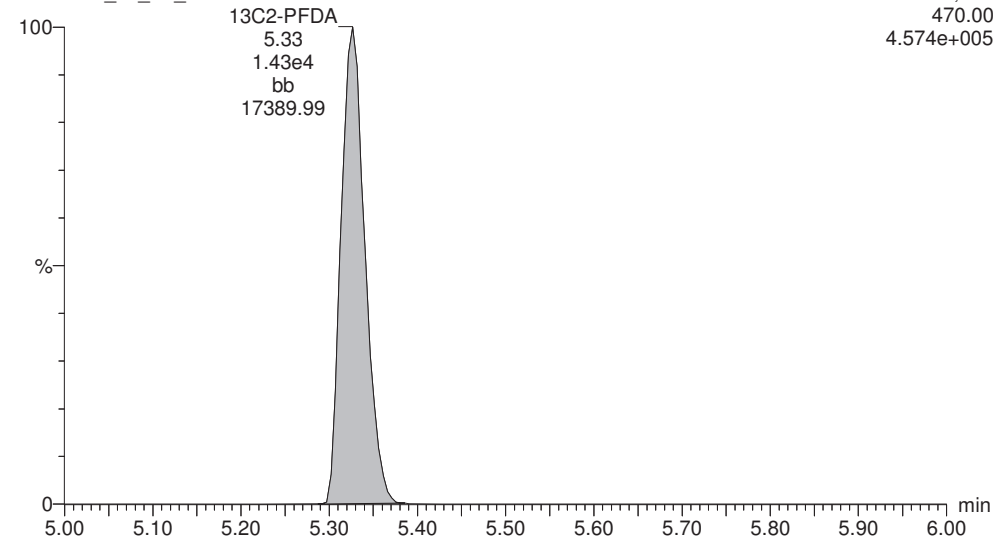
13C2-PFHxA

170418L1_28_P1_E1



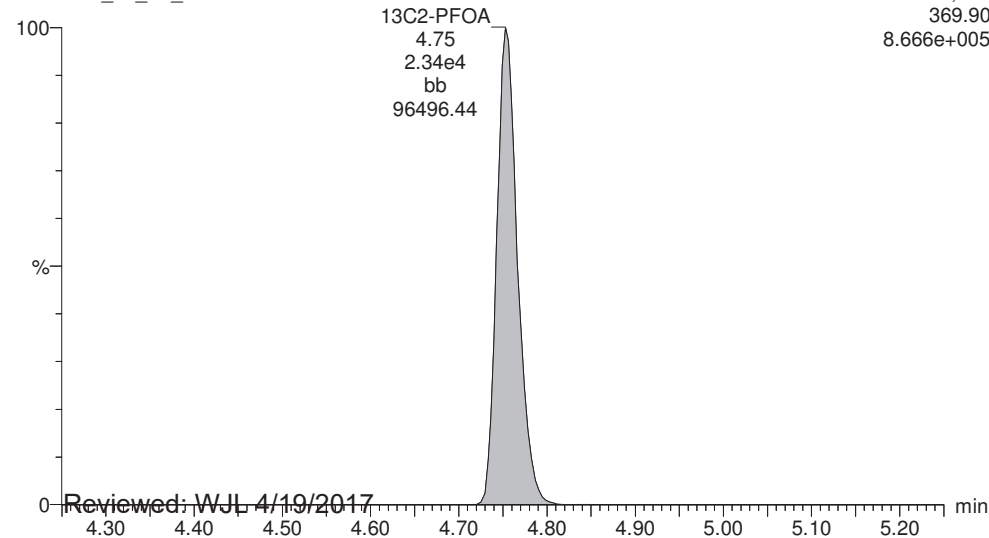
13C2-PFDA

170418L1_28_P1_E1



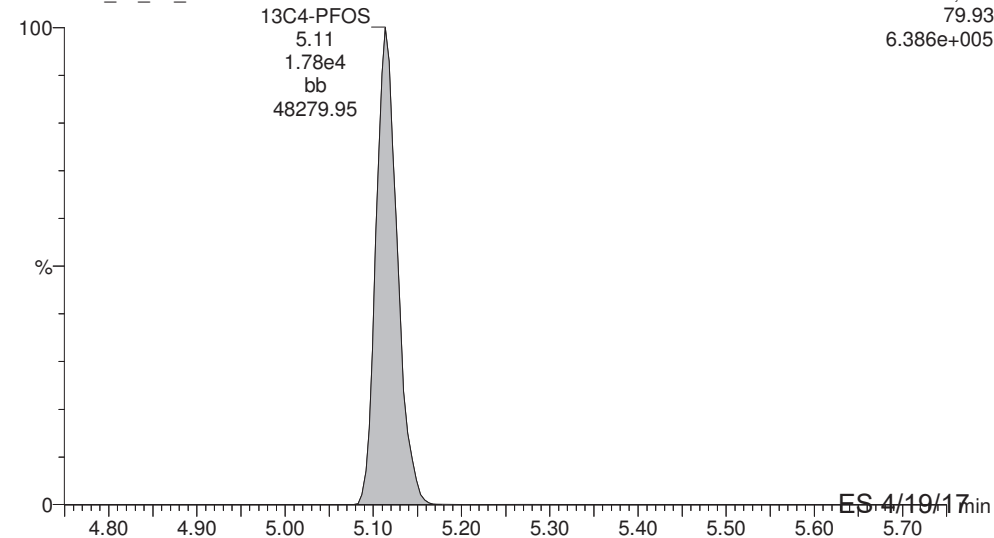
13C2-PFOA

170418L1_28_P1_E1



13C4-PFOS

170418L1_28_P1_E1



Reviewed: WJL 4/19/2017

ES 4/19/17

Dataset: U:\Q2.PRO\Results\New folder\170418L1-37.qld

Last Altered: Wednesday, April 19, 2017 10:39:46 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:40:48 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: 1700430RE1-01, Description: WF-RW08-0417, Name: 170418L1_37.wiff, Date: 19-Apr-2017, Time: 00:08:46

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	79.90	9.377e2	1.675e4		0.266	3.49	3.58	
2	5 PFOA	368.90	1.009e3	2.091e4		0.266	4.67	2.16	
3	7 PFOS	79.92	2.249e2	1.675e4		0.266	5.04	1.22	
4	15 13C2-PFHxA	269.90	1.382e4	2.091e4	0.742	0.266	3.82	33.5	89.0
5	16 13C2-PFDA	470.00	1.528e4	2.091e4	0.678	0.266	5.26	40.6	108
6	18 13C2-PFOA	369.90	2.091e4	2.091e4	1.000	0.266	4.67	37.6	100
7	19 13C4-PFOS	79.93	1.675e4	1.675e4	1.000	0.266	5.04	108	100

Dataset: U:\Q2.PRO\Results\New folder\170418L1-37.qld

Last Altered: Wednesday, April 19, 2017 10:39:46 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:40:48 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

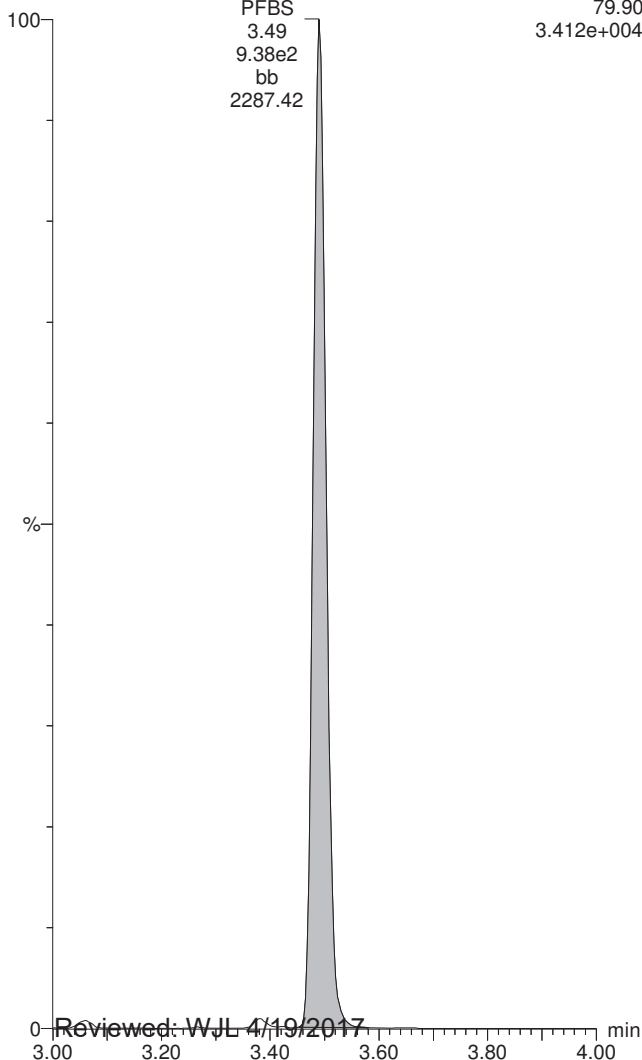
ID: 1700430RE1-01, Description: WF-RW08-0417, Name: 170418L1_37.wiff, Date: 19-Apr-2017, Time: 00:08:46, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

170418L1_37_P1_E1

PFBS
3.49
9.38e2
bb
2287.42

SIR of 20 channels,ES-
79.90
3.412e+004

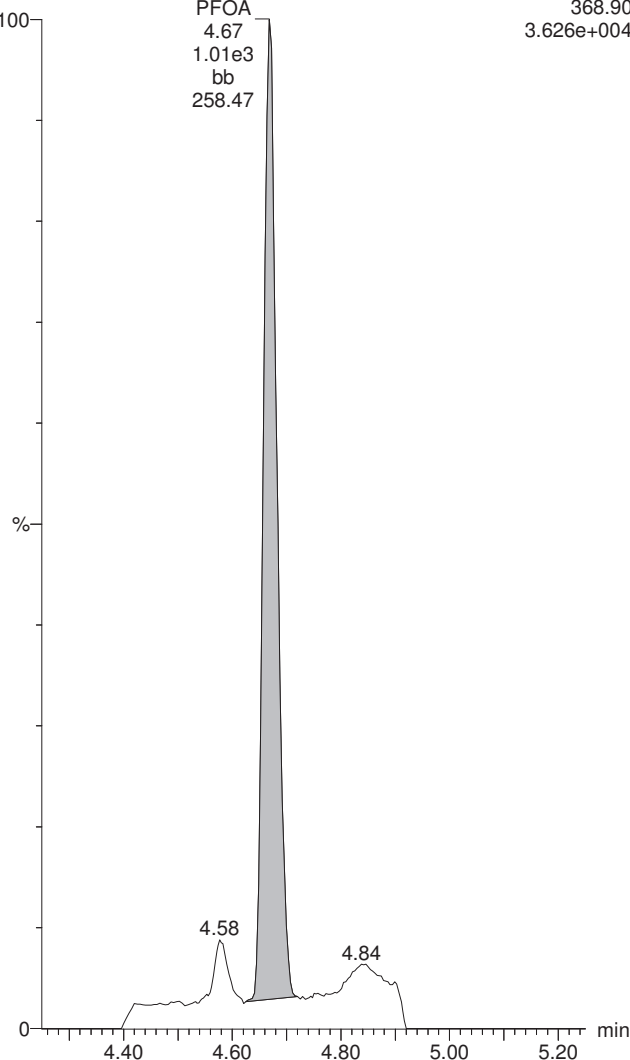


PFOA

170418L1_37_P1_E1

PFOA
4.67
1.01e3
bb
258.47

SIR of 20 channels,ES-
368.90
3.626e+004

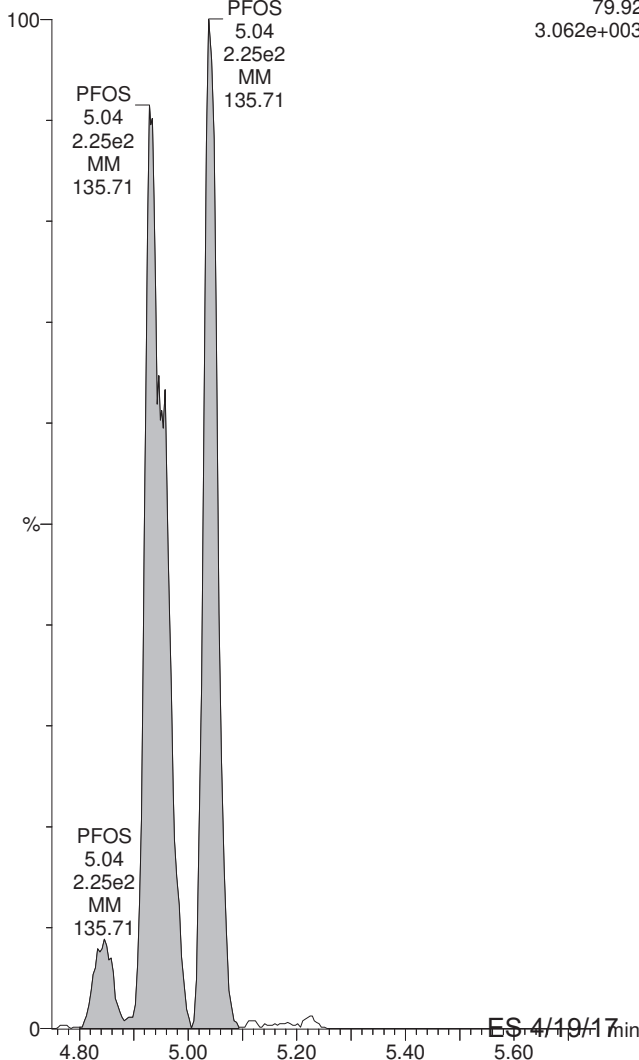


PFOS

170418L1_37_P1_E1

PFOS
5.04
2.25e2
MM
135.71

SIR of 20 channels,ES-
79.92
3.062e+003



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Dataset: U:\Q2.PRO\Results\New folder\170418L1-37.qld

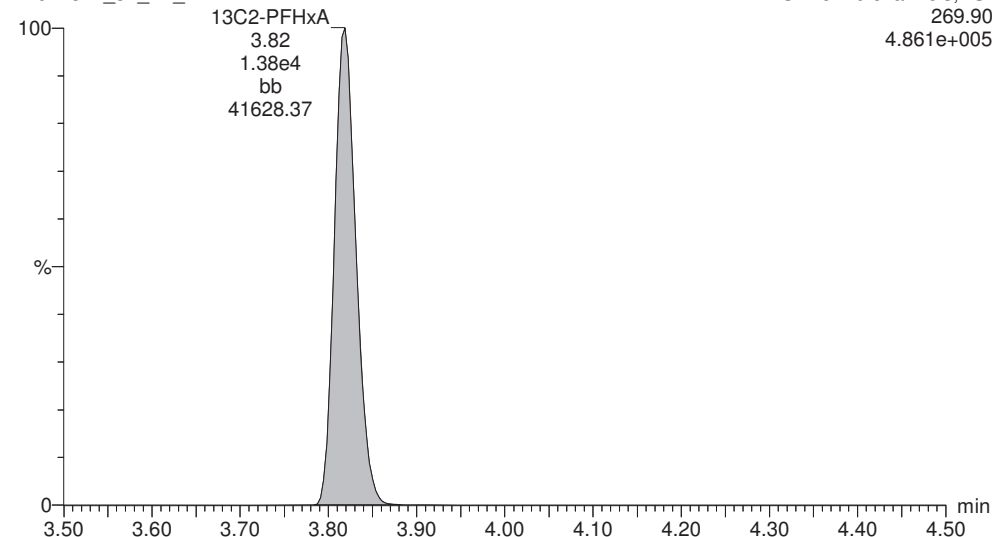
Last Altered: Wednesday, April 19, 2017 10:39:46 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:40:48 Pacific Daylight Time

ID: 1700430RE1-01, Description: WF-RW08-0417, Name: 170418L1_37.wiff, Date: 19-Apr-2017, Time: 00:08:46, Instrument: , Lab: ©PE-SCIEX, User: sciex

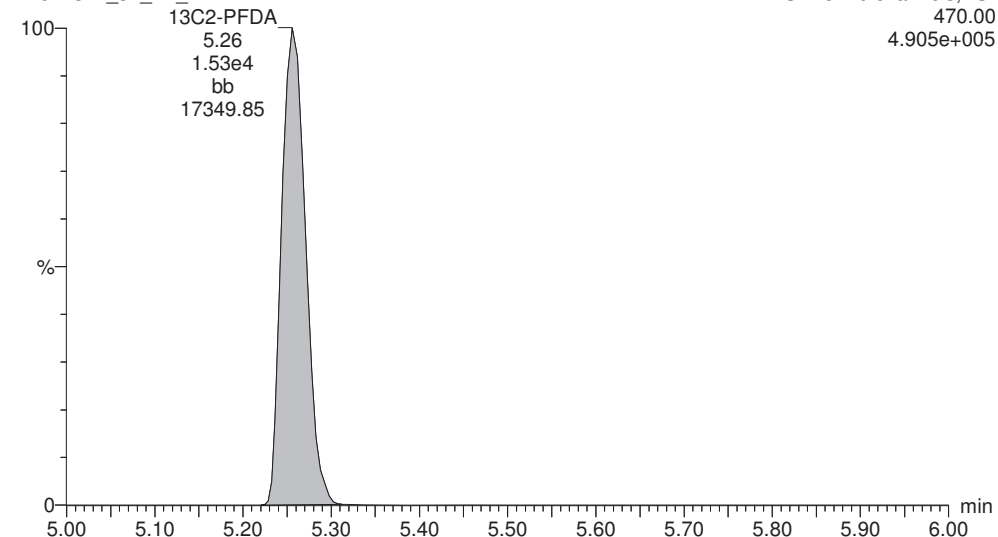
13C2-PFHxA

170418L1_37_P1_E1



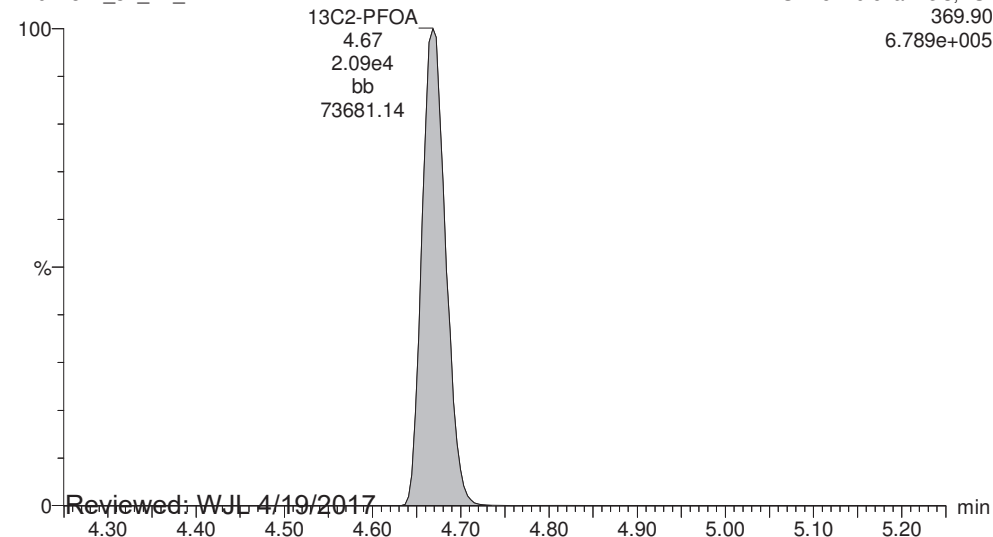
13C2-PFDA

170418L1_37_P1_E1



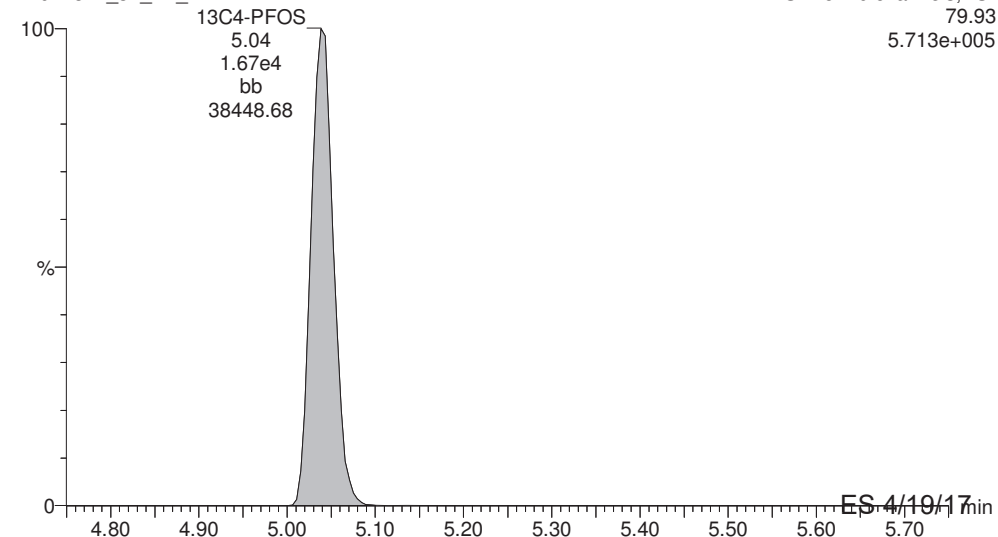
13C2-PFOA

170418L1_37_P1_E1



13C4-PFOS

170418L1_37_P1_E1



Reviewed: WJL 4/19/2017

ES 4/19/17

Dataset: U:\Q2.PRO\Results\New folder\170418L1-38.qld

Last Altered: Wednesday, April 19, 2017 10:42:46 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:43:04 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: 1700430RE1-02, Description: WF-FB08-0417, Name: 170418L1_38.wiff, Date: 19-Apr-2017, Time: 00:21:01

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	79.90		1.532e4		0.281			
2	5 PFOA	368.90		2.017e4		0.281			
3	7 PFOS	79.92	7.765e0	1.532e4		0.281	5.01	0.0435	
4	15 13C2-PFHxA	269.90	1.298e4	2.017e4	0.742	0.281	3.80	30.8	86.7
5	16 13C2-PFDA	470.00	1.283e4	2.017e4	0.678	0.281	5.23	33.4	93.9
6	18 13C2-PFOA	369.90	2.017e4	2.017e4	1.000	0.281	4.65	35.5	100
7	19 13C4-PFOS	79.93	1.532e4	1.532e4	1.000	0.281	5.01	102	100

Dataset: U:\Q2.PRO\Results\New folder\170418L1-38.qld

Last Altered: Wednesday, April 19, 2017 10:42:46 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:43:04 Pacific Daylight Time

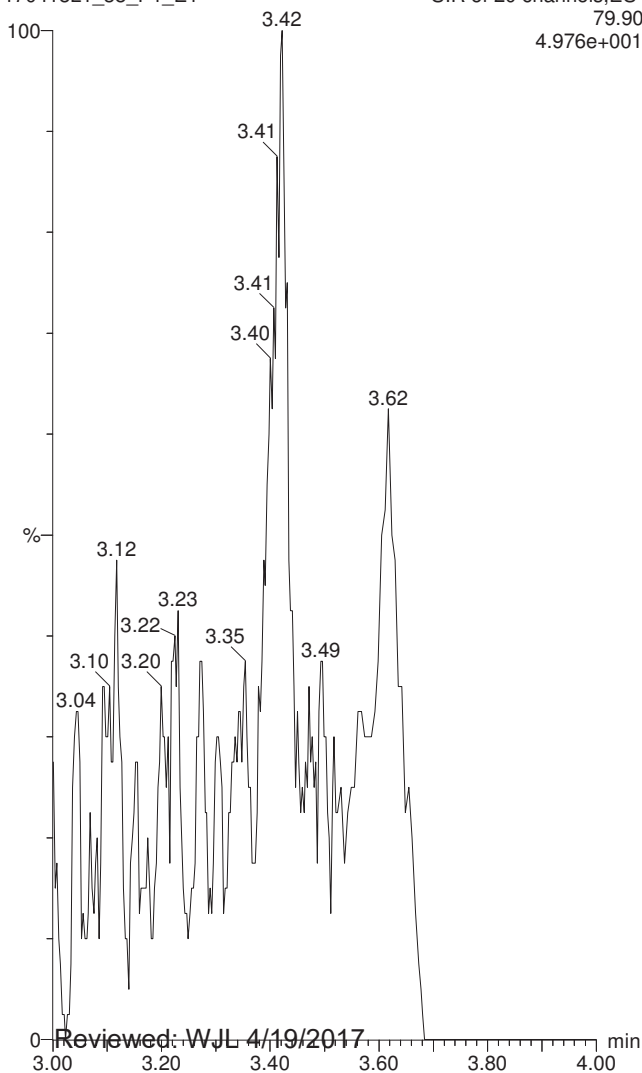
Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13
Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: 1700430RE1-02, Description: WF-FB08-0417, Name: 170418L1_38.wiff, Date: 19-Apr-2017, Time: 00:21:01, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

170418L1_38_P1_E1

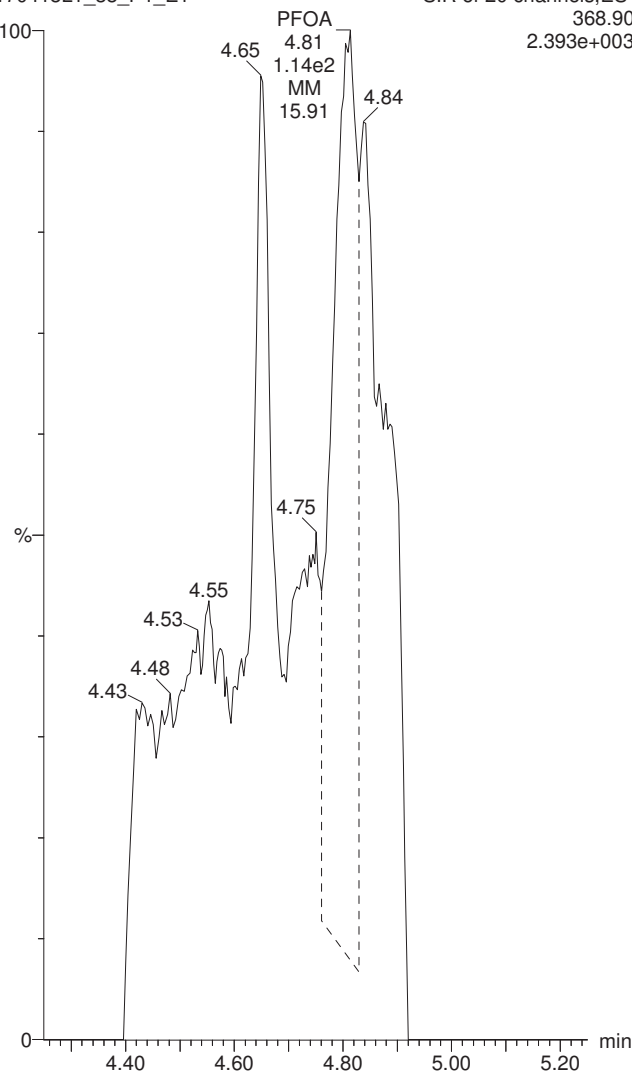
SIR of 20 channels,ES-
79.90
4.976e+001



PFOA

170418L1_38_P1_E1

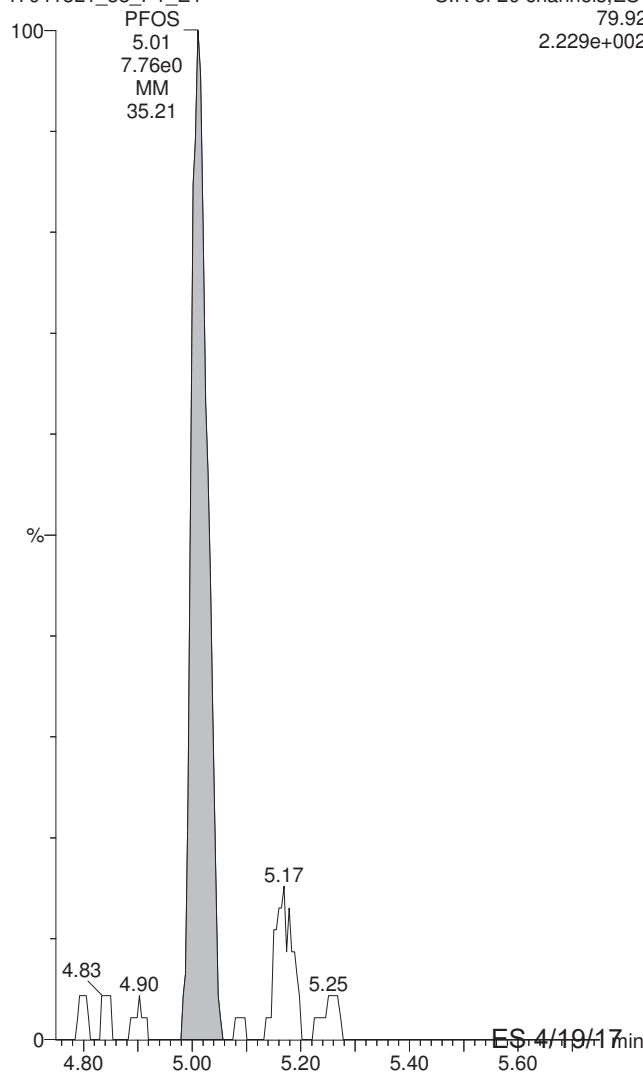
SIR of 20 channels,ES-
368.90
2.393e+003



PFOS

170418L1_38_P1_E1

SIR of 20 channels,ES-
79.92
2.229e+002



Reviewed: WJL 4/19/2017

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Dataset: U:\Q2.PRO\Results\New folder\170418L1-38.qld

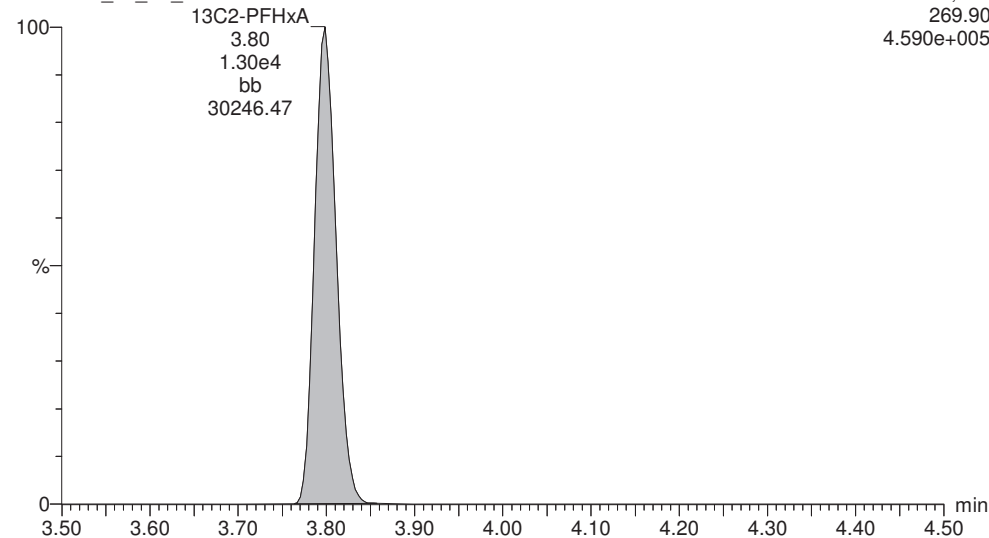
Last Altered: Wednesday, April 19, 2017 10:42:46 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:43:04 Pacific Daylight Time

ID: 1700430RE1-02, Description: WF-FB08-0417, Name: 170418L1_38.wiff, Date: 19-Apr-2017, Time: 00:21:01, Instrument: , Lab: ©PE-SCIEX, User: sciex

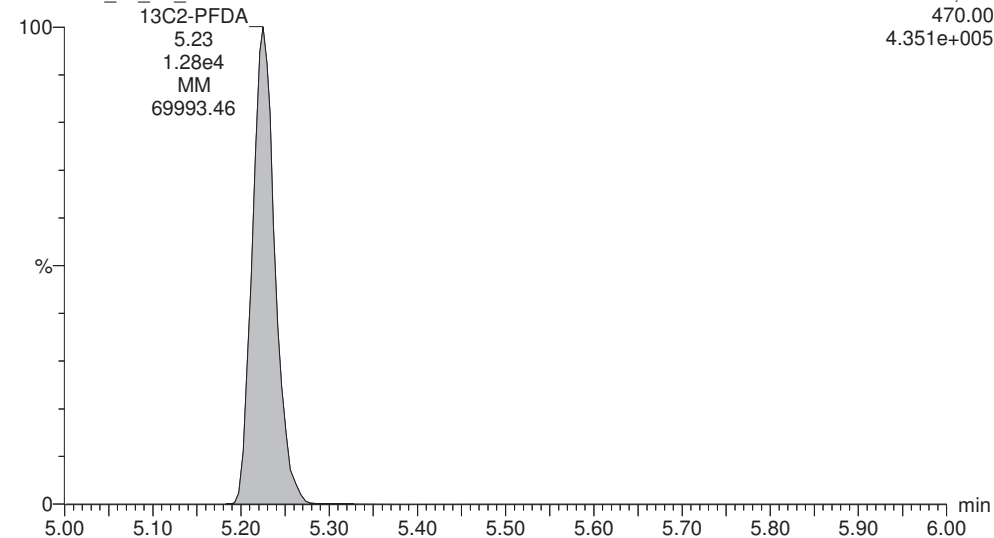
13C2-PFHxA

170418L1_38_P1_E1



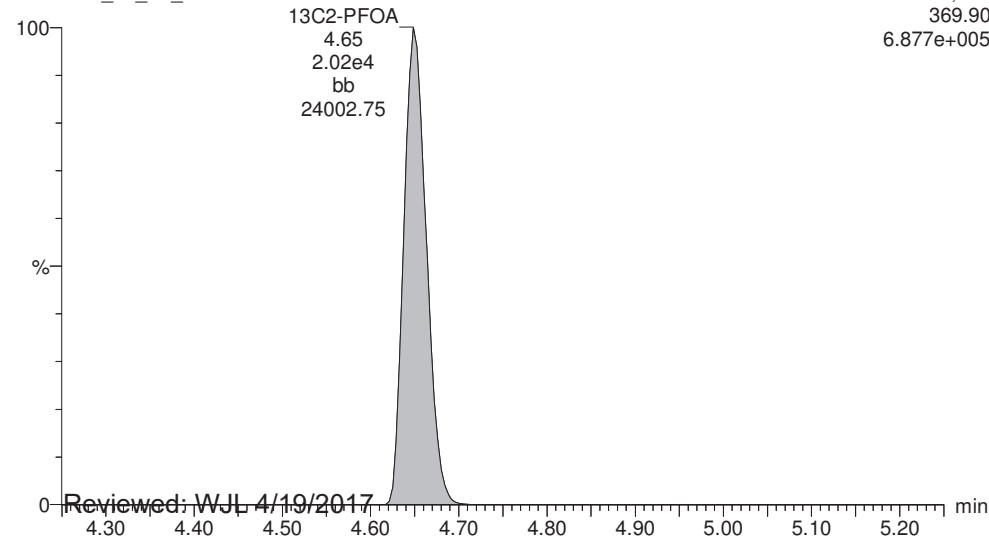
13C2-PFDA

170418L1_38_P1_E1



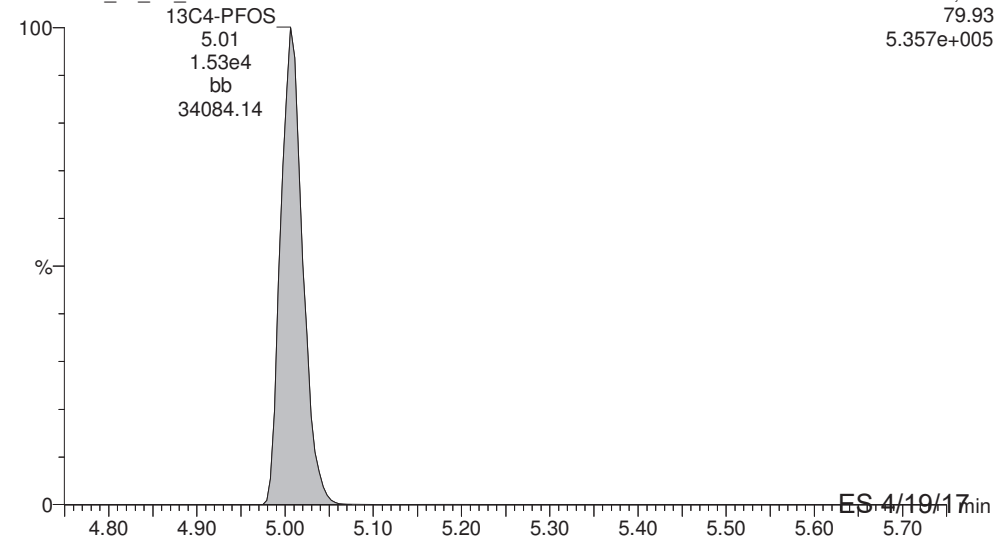
13C2-PFOA

170418L1_38_P1_E1



13C4-PFOS

170418L1_38_P1_E1



Reviewed: WJL 4/19/2017

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Dataset: U:\Q2.PRO\Results\New folder\170418L1-39.qld

Last Altered: Wednesday, April 19, 2017 10:45:34 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:45:48 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: 1700430RE1-03, Description: WF-RW09-0417, Name: 170418L1_39.wiff, Date: 19-Apr-2017, Time: 00:33:15

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	79.90	6.421e1	1.617e4		0.280	3.50	0.240	
2	5 PFOA	368.90	1.789e2	2.379e4		0.280	4.70	0.320	
3	7 PFOS	79.92	9.349e1	1.617e4		0.280	5.06	0.499	
4	15 13C2-PFHxA	269.90	1.454e4	2.379e4	0.742	0.280	3.85	29.4	82.3
5	16 13C2-PFDA	470.00	1.352e4	2.379e4	0.678	0.280	5.27	30.0	83.9
6	18 13C2-PFOA	369.90	2.379e4	2.379e4	1.000	0.280	4.70	35.7	100
7	19 13C4-PFOS	79.93	1.617e4	1.617e4	1.000	0.280	5.06	103	100

Dataset: U:\Q2.PRO\Results\New folder\170418L1-39.qld

Last Altered: Wednesday, April 19, 2017 10:45:34 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:45:48 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

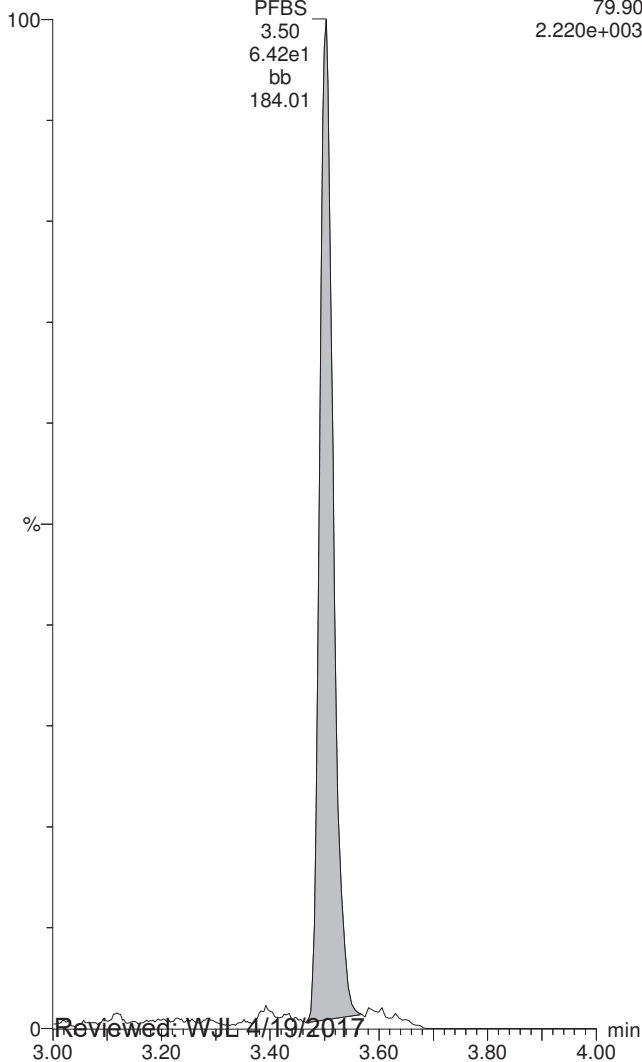
ID: 1700430RE1-03, Description: WF-RW09-0417, Name: 170418L1_39.wiff, Date: 19-Apr-2017, Time: 00:33:15, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

170418L1_39_P1_E1

PFBS
3.50
6.42e1
bb
184.01

SIR of 20 channels,ES-
79.90
2.220e+003

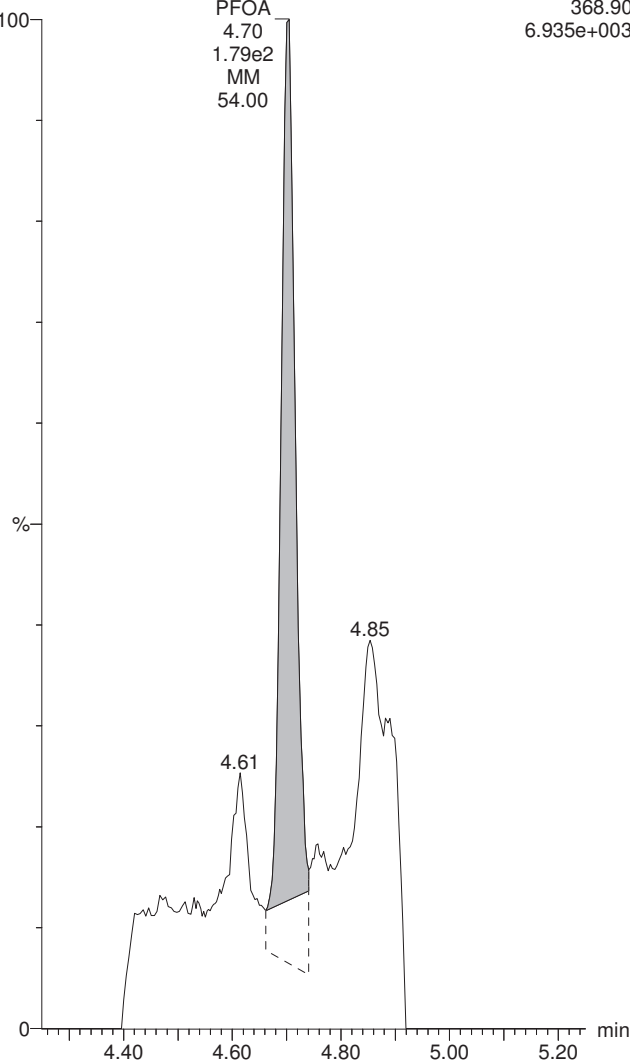


PFOA

170418L1_39_P1_E1

PFOA
4.70
1.79e2
MM
54.00

SIR of 20 channels,ES-
368.90
6.935e+003

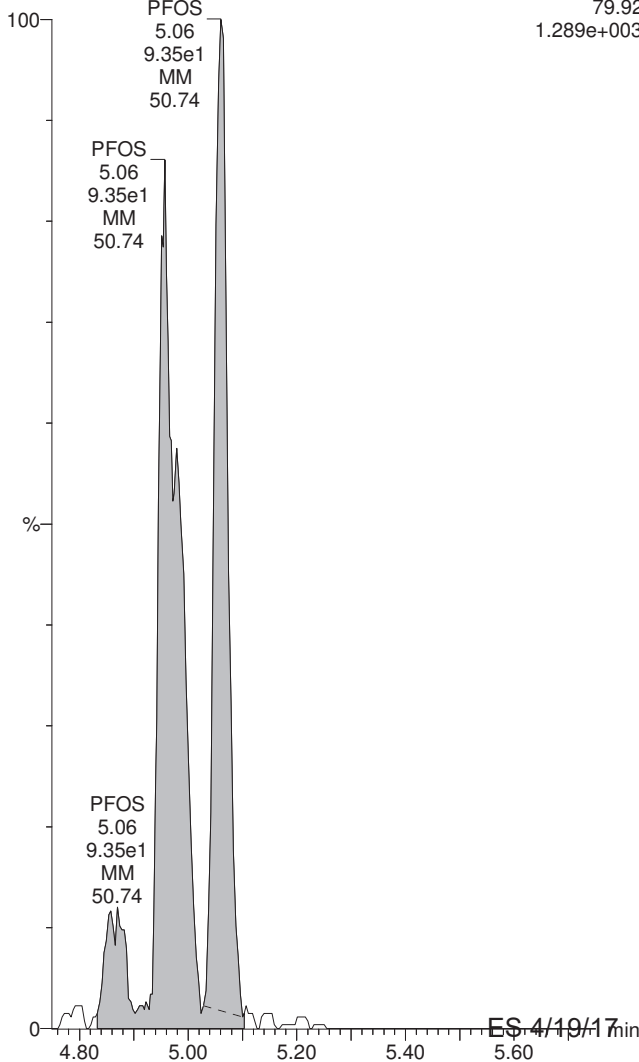


PFOS

170418L1_39_P1_E1

PFOS
5.06
9.35e1
MM
50.74

SIR of 20 channels,ES-
79.92
1.289e+003



Reviewed: WJL 4/19/2017

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Dataset: U:\Q2.PRO\Results\New folder\170418L1-39.qld

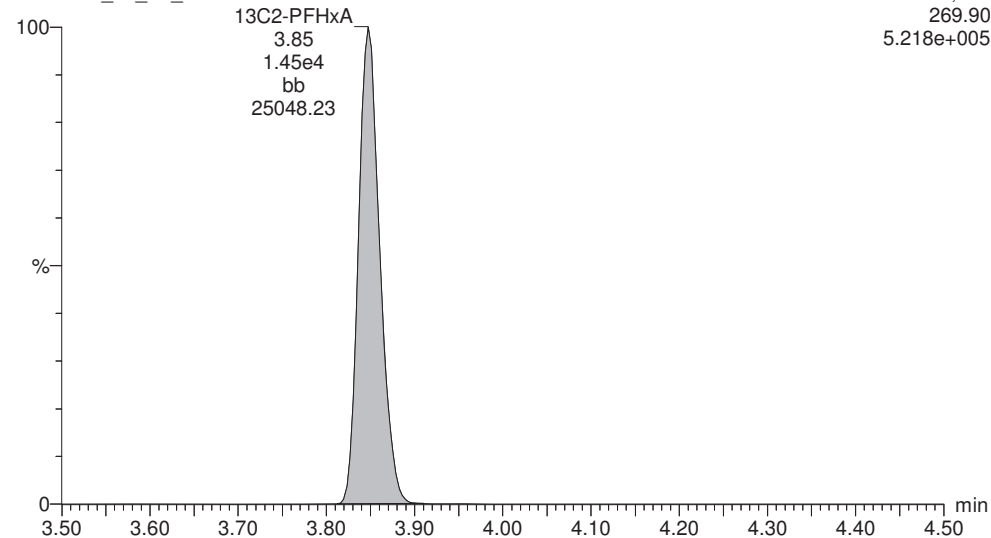
Last Altered: Wednesday, April 19, 2017 10:45:34 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:45:48 Pacific Daylight Time

ID: 1700430RE1-03, Description: WF-RW09-0417, Name: 170418L1_39.wiff, Date: 19-Apr-2017, Time: 00:33:15, Instrument: , Lab: ©PE-SCIEX, User: sciex

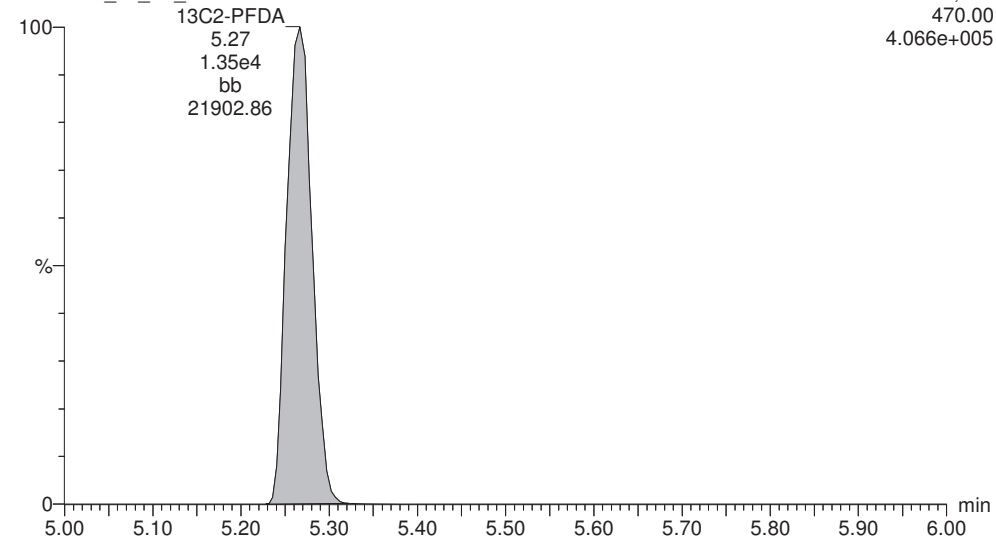
13C2-PFHxA

170418L1_39_P1_E1



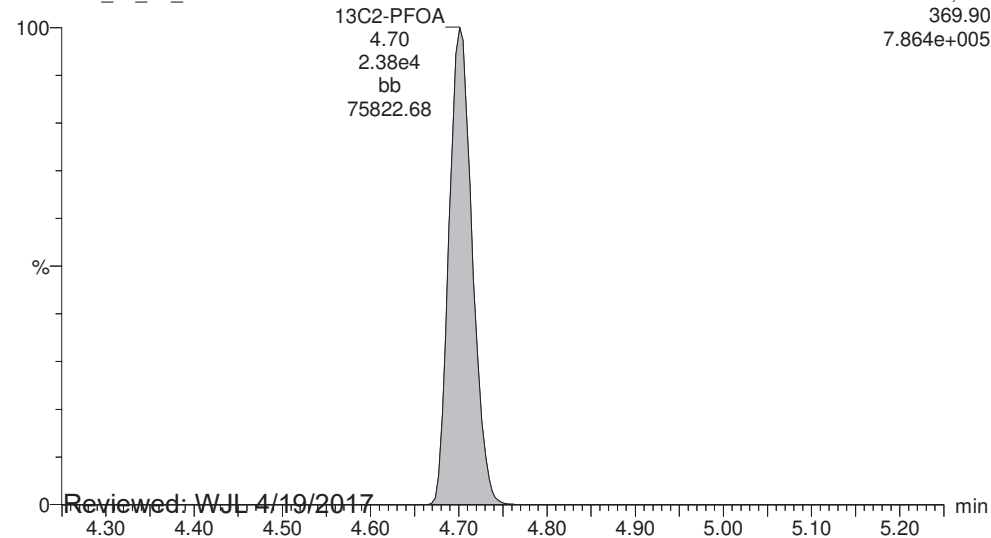
13C2-PFDA

170418L1_39_P1_E1



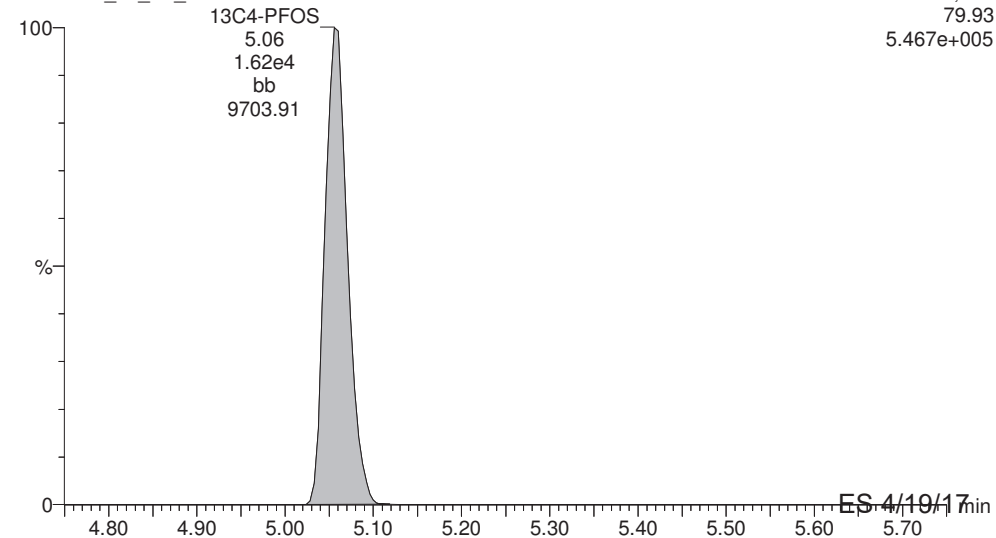
13C2-PFOA

170418L1_39_P1_E1



13C4-PFOS

170418L1_39_P1_E1



Reviewed: WJL 4/19/2017

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Dataset: U:\Q2.PRO\Results\New folder\170418L1-40.qld

Last Altered: Wednesday, April 19, 2017 10:48:09 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:49:25 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: 1700430RE1-04, Description: WF-FB09-0417, Name: 170418L1_40.wiff, Date: 19-Apr-2017, Time: 00:45:31

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	79.90		1.560e4		0.284			
2	5 PFOA	368.90		2.204e4		0.284			
3	7 PFOS	79.92	7.212e0	1.560e4		0.284	5.01	0.0394	
4	15 13C2-PFHxA	269.90	1.383e4	2.204e4	0.742	0.284	3.82	29.8	84.5
5	16 13C2-PFDA	470.00	1.442e4	2.204e4	0.678	0.284	5.22	34.0	96.5
6	18 13C2-PFOA	369.90	2.204e4	2.204e4	1.000	0.284	4.65	35.3	100
7	19 13C4-PFOS	79.93	1.560e4	1.560e4	1.000	0.284	5.01	101	100

Dataset: U:\Q2.PRO\Results\New folder\170418L1-40.qld

Last Altered: Wednesday, April 19, 2017 10:48:09 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:49:25 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

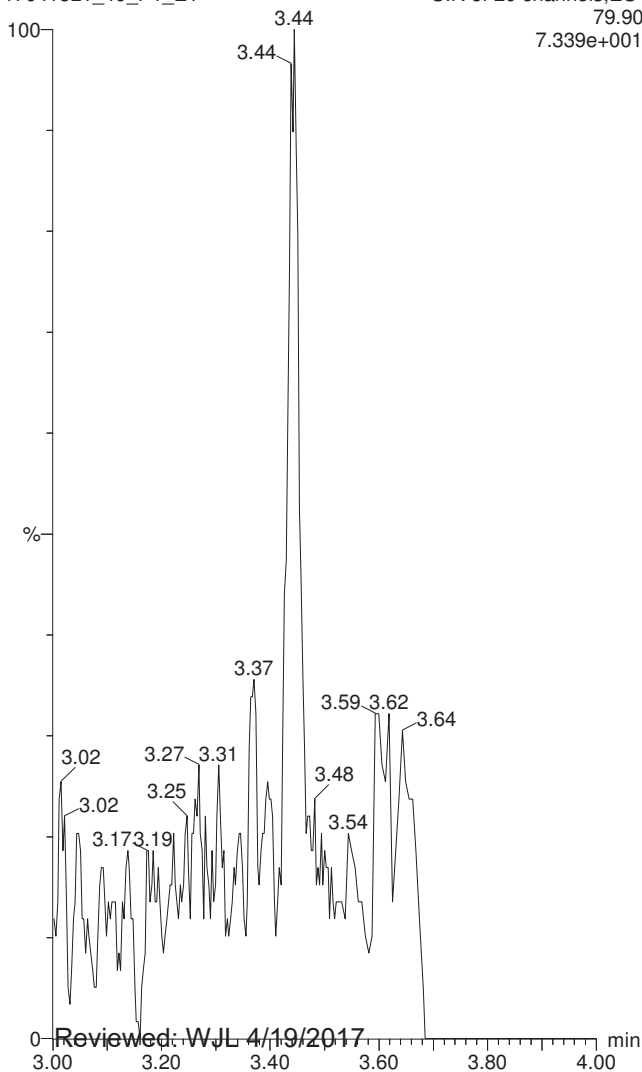
Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

ID: 1700430RE1-04, Description: WF-FB09-0417, Name: 170418L1_40.wiff, Date: 19-Apr-2017, Time: 00:45:31, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

170418L1_40_P1_E1

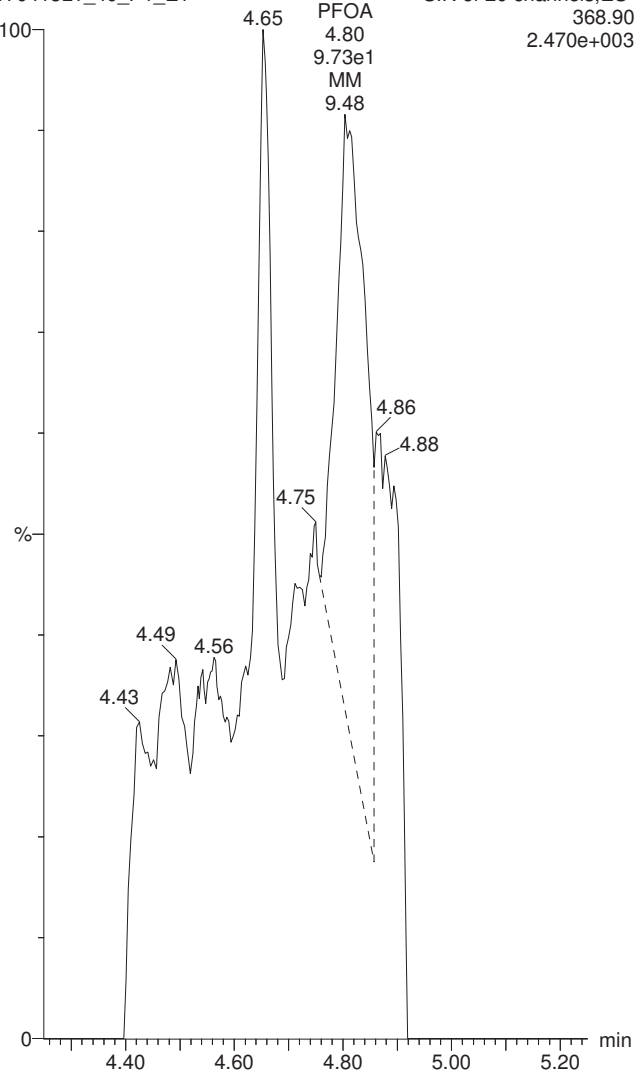
SIR of 20 channels,ES-
79.90
7.339e+001



PFOA

170418L1_40_P1_E1

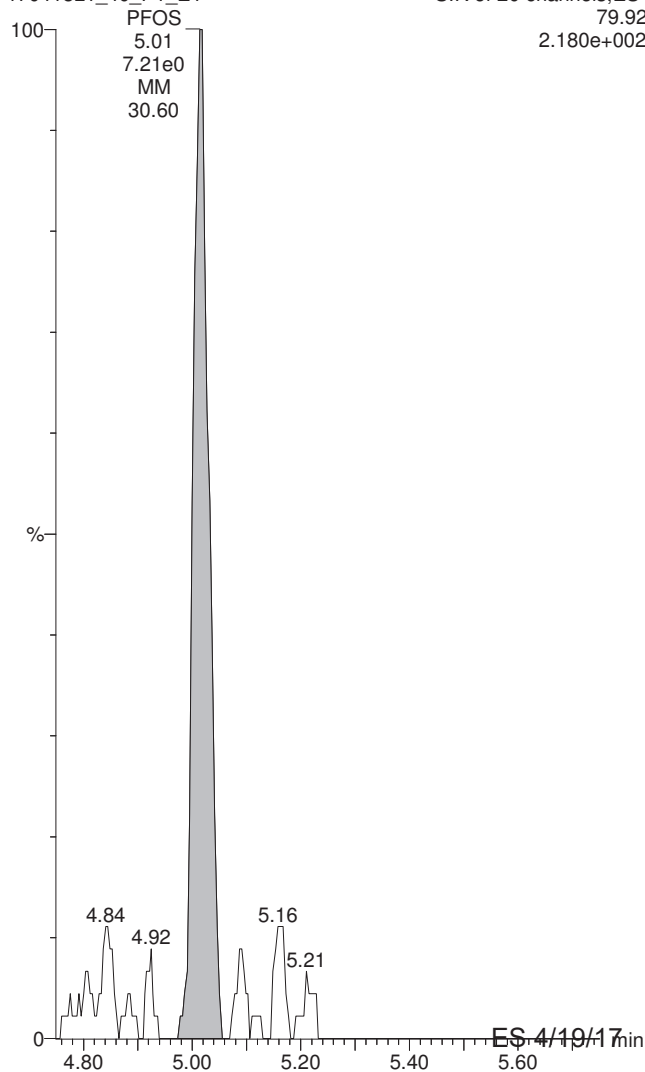
SIR of 20 channels,ES-
368.90
2.470e+003



PFOS

170418L1_40_P1_E1

SIR of 20 channels,ES-
79.92
2.180e+002



Reviewed: WJL 4/19/2017

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Dataset: U:\Q2.PRO\Results\New folder\170418L1-40.qld

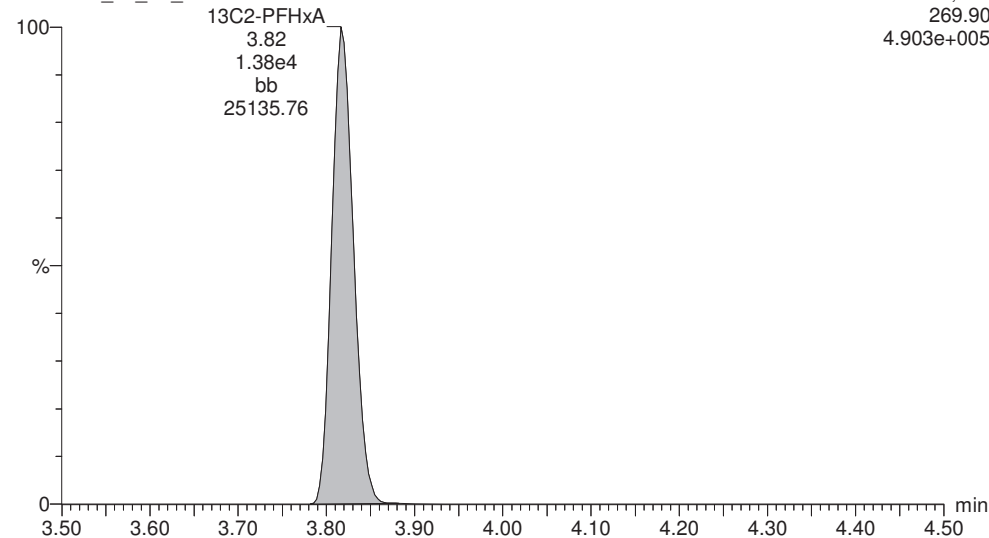
Last Altered: Wednesday, April 19, 2017 10:48:09 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:49:25 Pacific Daylight Time

ID: 1700430RE1-04, Description: WF-FB09-0417, Name: 170418L1_40.wiff, Date: 19-Apr-2017, Time: 00:45:31, Instrument: , Lab: ©PE-SCIEX, User: sciex

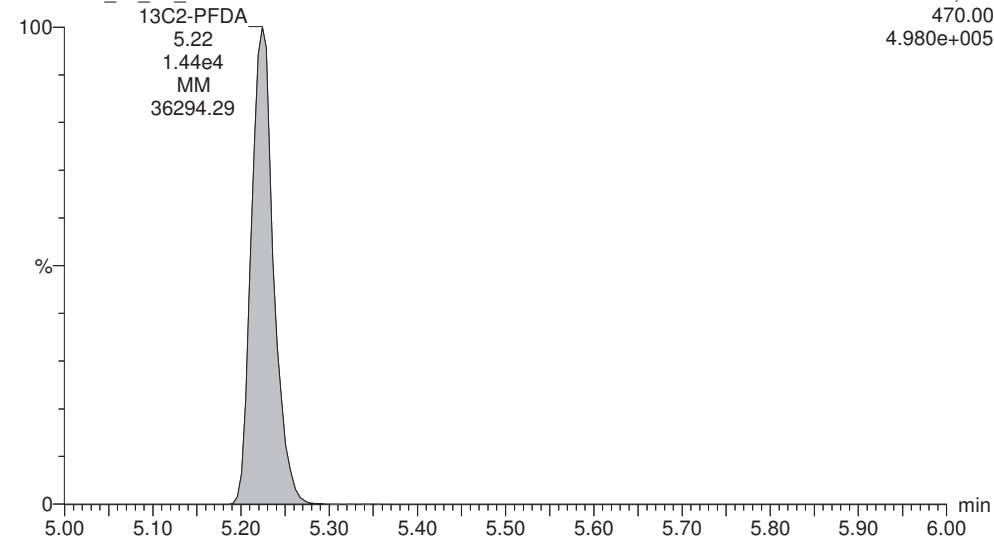
13C2-PFHxA

170418L1_40_P1_E1



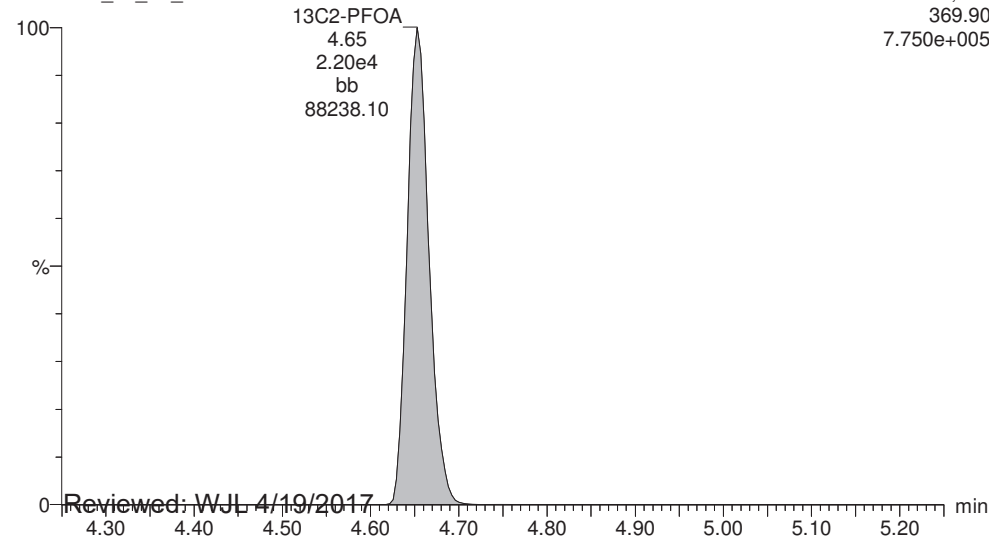
13C2-PFDA

170418L1_40_P1_E1



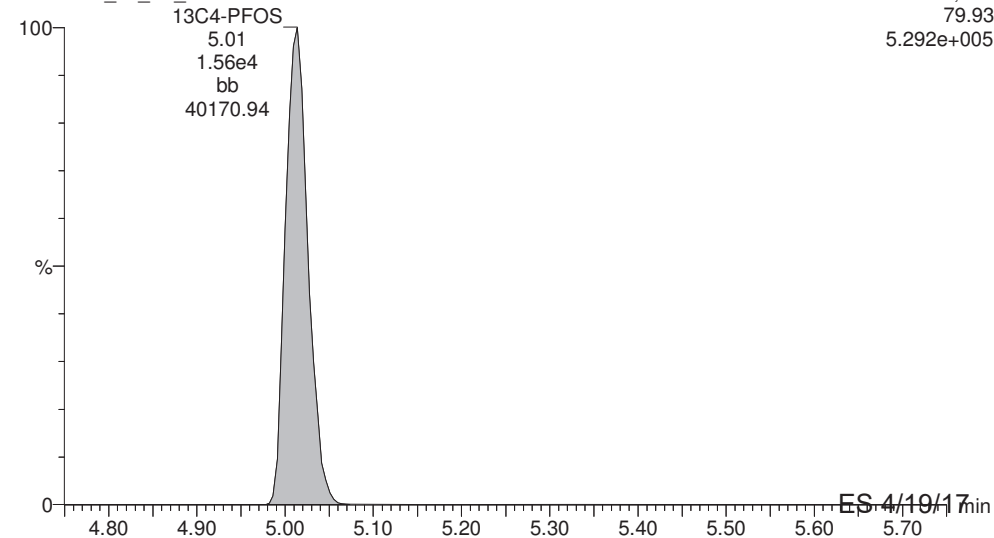
13C2-PFOA

170418L1_40_P1_E1



13C4-PFOS

170418L1_40_P1_E1



Reviewed: WJL 4/19/2017

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CONTINUING CALIBRATION

Dataset: U:\Q2.PRO\Results\New folder\170418L1-42.qld

Last Altered: Wednesday, April 19, 2017 10:22:57 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:23:20 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

Name: 170418L1_42.wiff, Date: 19-Apr-2017, Time: 01:09:58, ID: ST170418L1-9 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1	PFBS	79.90	8.54e3	1.76e4		1.000	3.42	8.84	99.8
2	2	PFHxA	268.9	1.53e4	1.76e4		1.000	3.80	10.8	108.3
3	3	PFHpA	318.90	1.84e4	2.41e4		1.000	4.28	10.8	107.9
4	4	PFHxS	79.91	7.35e3	1.76e4		1.000	4.38	9.43	103.4
5	5	PFOA	368.90	2.09e4	2.41e4		1.000	4.64	10.7	107.2
6	6	PFNA	419.00	2.14e4	2.41e4		1.000	4.94	11.8	117.6
7	7	PFOS	79.92	7.24e3	1.76e4		1.000	5.00	10.4	111.9
8	8	PFDA	469.00	1.14e4	2.41e4		1.000	5.21	11.5	114.6
9	9	N-MeFOSAA	419.01	6.45e3	2.32e4		1.000	5.32	12.1	121.5
10	10	N-EtFOSAA	418.90	6.03e3	2.32e4		1.000	5.43	12.4	124.3
11	11	PFUnA	519.0	1.29e4	2.41e4		1.000	5.43	11.5	114.6
12	12	PFDoA	569.00	1.67e4	2.41e4		1.000	5.65	12.0	119.9
13	13	PFTTrDA	619.00	1.53e4	2.41e4		1.000	5.84	11.4	114.4
14	14	PFTeDA	669.00	1.37e4	2.41e4		1.000	6.00	11.2	112.4
15	15	13C2-PFHxA	269.90	1.92e4	2.41e4	0.742	1.000	3.79	10.7	107.1
16	16	13C2-PFDA	470.00	1.75e4	2.41e4	0.678	1.000	5.21	10.7	107.3
17	17	d5-N-EtFOSAA	419.02	2.18e4	2.32e4	0.846	1.000	5.43	44.4	111.0
18	18	13C2-PFOA	369.90	2.41e4	2.41e4	1.000	1.000	4.64	10.0	100.0
19	19	13C4-PFOS	79.93	1.76e4	1.76e4	1.000	1.000	4.99	28.7	100.0
20	20	d3-N-MeFOSAA	418.91	2.32e4	2.32e4	1.000	1.000	5.32	40.0	100.0

70-130

70-150

ES 4/19/17

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:01:29 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:01:47 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13
Calibration: 19 Apr 2017 10:01:29

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170418L1_01_P...	IPA	18-Apr-17	16:48:03
2	170418L1_02_P...	ST170418L1-1 537 DW CS(-3) 17D1811	18-Apr-17	17:00:18
3	170418L1_03_P...	ST170418L1-2 537 DW CS(-2) 17D1812	18-Apr-17	17:12:33
4	170418L1_04_P...	ST170418L1-3 537 DW CS(-1) 17D1813	18-Apr-17	17:24:47
5	170418L1_05_P...	ST170418L1-4 537 DW CS0 17D1814	18-Apr-17	17:36:59
6	170418L1_06_P...	ST170418L1-5 537 DW CS1 17D1815	18-Apr-17	17:49:11
7	170418L1_07_P...	ST170418L1-6 537 DW CS1.2 17D1816	18-Apr-17	18:01:27
8	170418L1_08_P...	ST170418L1-7 537 DW CS1.3 17D1817	18-Apr-17	18:13:38
9	170418L1_09_P...	ST170418L1-8 537 DW CS1.5 17D1818	18-Apr-17	18:25:53
10	170418L1_10_P...	IPA	18-Apr-17	18:38:05
11	170418L1_11_P...	SS170418L1-1 537 DW SSS 17D1821	18-Apr-17	18:50:21
12	170418L1_12_P...	IPA	18-Apr-17	19:02:32
13	170418L1_13_P...	B7D0085-BLK1	18-Apr-17	19:14:49
14	170418L1_14_P...	B7D0086-BLK1	18-Apr-17	19:27:05
15	170418L1_15_P...	B7D0085-BS1	18-Apr-17	19:39:17
16	170418L1_16_P...	B7D0085-BS2	18-Apr-17	19:51:35
17	170418L1_17_P...	B7D0085-BS3	18-Apr-17	20:03:51
18	170418L1_18_P...	B7D0085-BS4	18-Apr-17	20:16:08
19	170418L1_19_P...	B7D0085-BS5	18-Apr-17	20:28:23
20	170418L1_20_P...	B7D0085-BS6	18-Apr-17	20:40:35
21	170418L1_21_P...	B7D0085-BS7	18-Apr-17	20:52:51
22	170418L1_22_P...	B7D0086-BS1	18-Apr-17	21:05:03
23	170418L1_23_P...	B7D0086-BS2	18-Apr-17	21:17:18
24	170418L1_24_P...	B7D0086-BS3	18-Apr-17	21:29:29
25	170418L1_25_P...	B7D0086-BS4	18-Apr-17	21:41:45
26	170418L1_26_P...	IPA	18-Apr-17	21:54:01
27	170418L1_27_P...	B7D0039-BS1	18-Apr-17	22:06:16
28	170418L1_28_P...	B7D0087-BS1	18-Apr-17	22:18:31
29	170418L1_29_P...	B7D0039-BLK1	18-Apr-17	22:30:46
30	170418L1_30_P...	B7D0087-BLK1	18-Apr-17	22:43:00
31	170418L1_31_P...	1700395-01	18-Apr-17	22:55:15
32	170418L1_32_P...	B7D0039-MS1	18-Apr-17	23:07:31

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:01:29 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:01:47 Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
33	170418L1_33_P...	1700395-02	18-Apr-17	23:19:44
34	170418L1_34_P...	B7D0039-DUP1	18-Apr-17	23:32:01
35	170418L1_35_P...	1700395-03	18-Apr-17	23:44:17
36	170418L1_36_P...	1700395-04	18-Apr-17	23:56:31
37	170418L1_37_P...	1700430RE1-01	19-Apr-17	00:08:46
38	170418L1_38_P...	1700430RE1-02	19-Apr-17	00:21:01
39	170418L1_39_P...	1700430RE1-03	19-Apr-17	00:33:15
40	170418L1_40_P...	1700430RE1-04	19-Apr-17	00:45:31
41	170418L1_41_P...	IPA	19-Apr-17	00:57:41
42	170418L1_42_P...	ST170418L1-9 537 DW CS1 17D1815	19-Apr-17	01:09:58
43	170418L1_43_P...	IPA	19-Apr-17	01:22:13

LC Calibration Standards Review Checklist 63

Calibration ID:	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>STR041821-9</u>	<u>LMH</u>	☒	☒	☒	☒	☒	☒
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: _____

Run Log Present: ☒

of Samples per Sequence Checked: ☒

Reviewed By: am 1/14/17
Initials/Date

Comments:

537 DW List 14

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:17:26 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:18:08 Pacific Daylight Time

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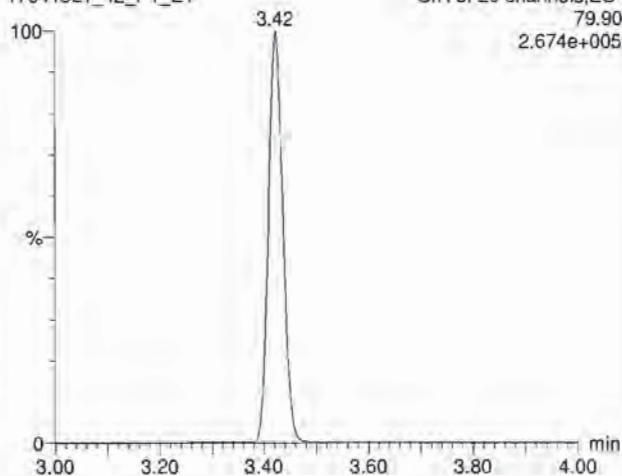
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PFBS

170418L1_42_P1_E1

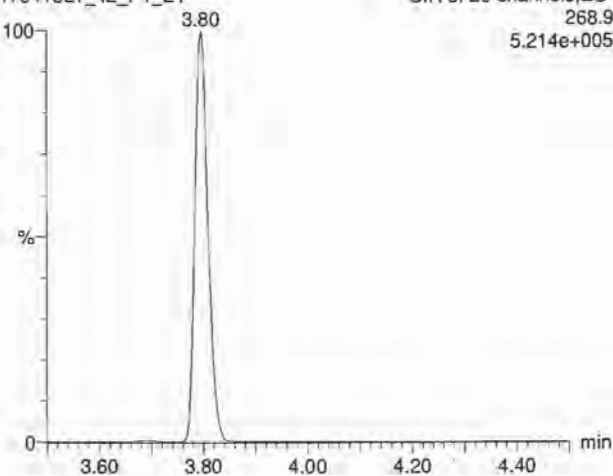
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2.674e+005



PFHxA

170418L1_42_P1_E1

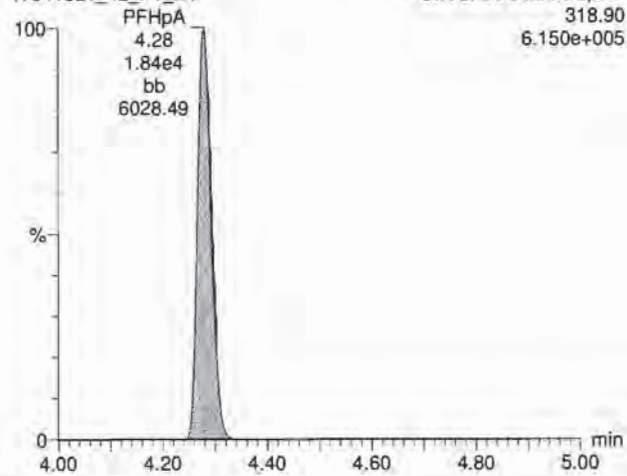
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PFHpA

170418L1_42_P1_E1

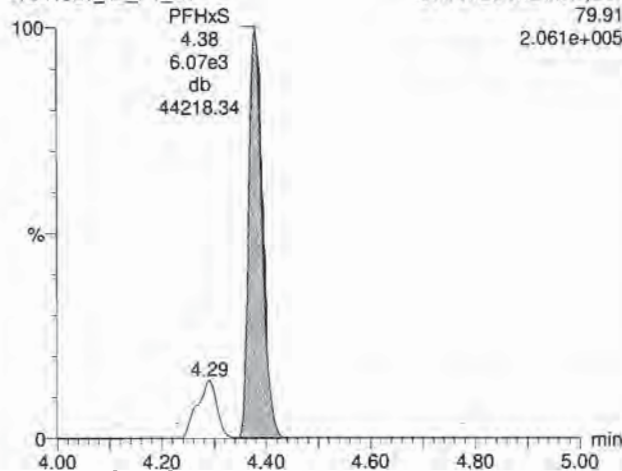
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PFHxS

170418L1_42_P1_E1

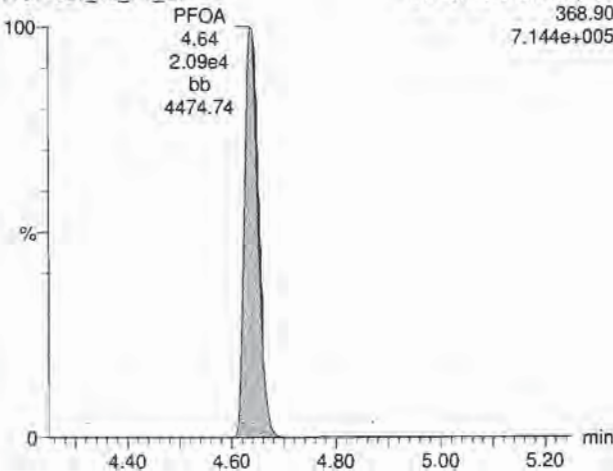
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2.061e+005



PFOA

170418L1_42_P1_E1

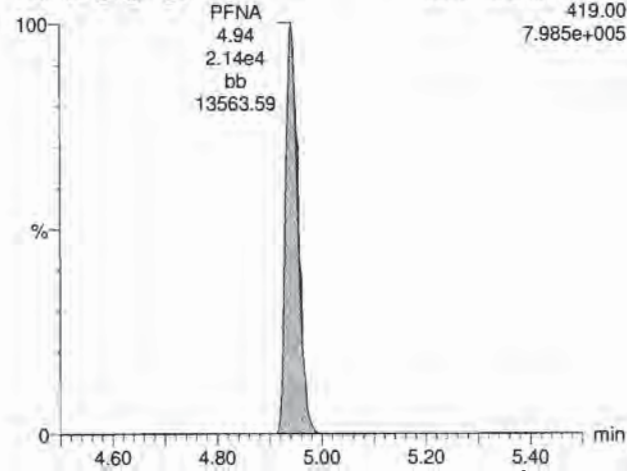
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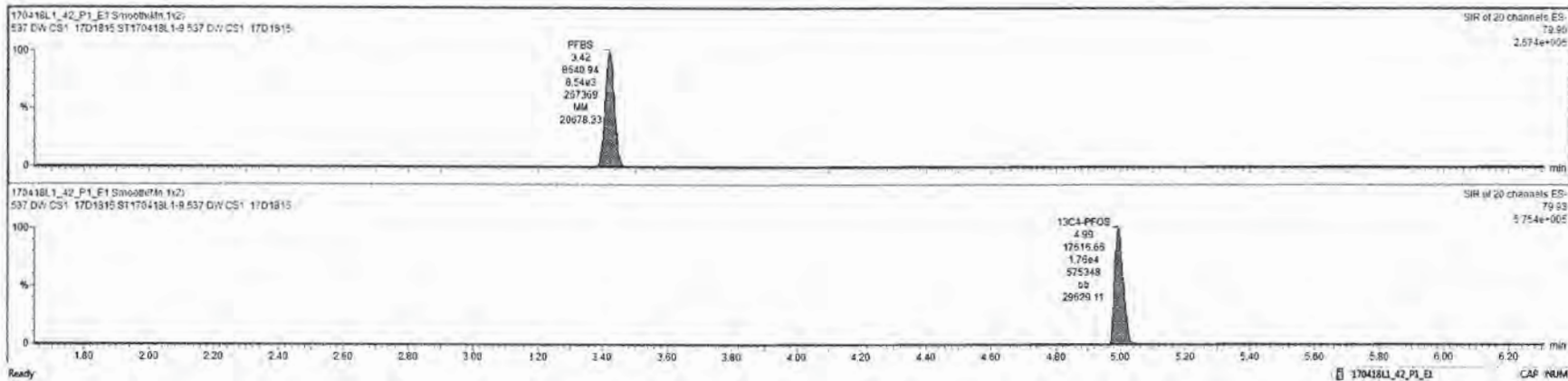
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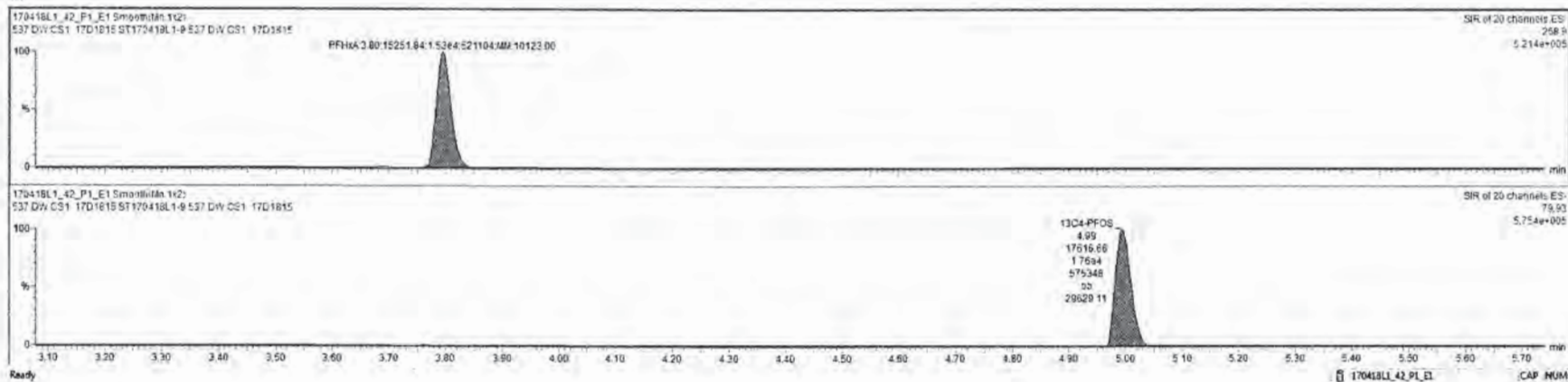
SIR of 20 channels, ES-
419.00
7.985e+005



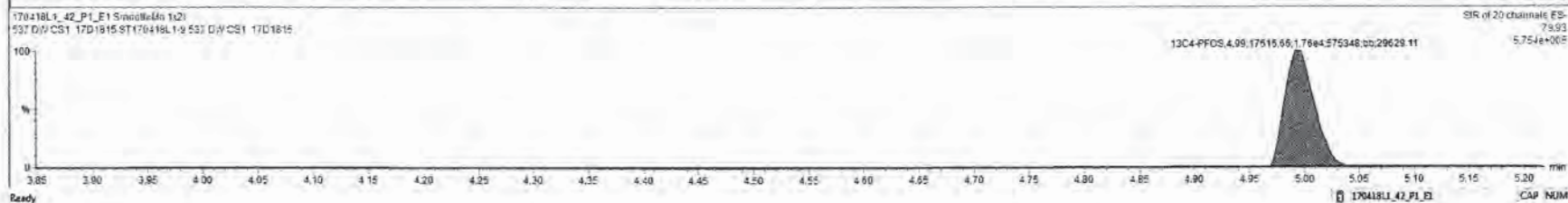
#	Name	Conc.	DL	%Rec	EMPC	Ass.Rmp	RSP	RT	#	RA	Y/N	RST	Acc.Deb	Acc.Time	1 st Chr Name	ID	Sample Text	Reclart	RM	Cal PM	MDL
1	PFBS	8.825040	0.003940	99.0		8.54143		3.42	1	19		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
2	PFHxA	10.812505	0.00253	106.3		1.5254		3.96	2	19		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
3	PFHpA	10.794162	0.00437	107.9		1.64064		4.20	3	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
4	PFHxS	9.4275804	0.00421	103.4		7.34963		4.36	4	19		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.715622	0.00579	107.2		2.09464		4.64	5	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
6	PFNA	11.753464	0.00237	117.6		2.14164		4.94	6	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.362811	0.0028	111.5		7.24143		5.00	7	19		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.484990	0.00118	114.6		1.13064		5.21	8	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
9	N-EFOSAA							9	20				19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
10	N-EFOSAA							10	20				19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
11	PFDA							11	18				19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
12	PFDA							12	18				19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
13	PFDA	11.433678	0.00207	114.4		1.53064		5.04	13	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
14	PFDA	11.241757	0.00290	112.4		1.37264		6.00	14	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
15	13C2-PFhxA	10.708267	0.000520	107.1		1.91564	0.742	3.79	15	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES
16	13C2-PFDA	0.0008417	0.00148	0.0		1.37460	0.678	5.33	16	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
17	15-N-EFOSAA		0.00456			0.846		17	20				19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
18	13C2-PFDA	10.600000	0.000304	100.0		2.40964	1.000	4.64	18	18		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
19	13C4-PFOS	28.700000	0.00242	106.0		1.76264	1.000	4.99	19	19		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	NO
20	13-N-EFOSAA	40.000000	0.00161	106.0		2.31564	1.000	5.32	20	20		0.000	19-Apr-17	01:09:58		ST170418L1	537-DW-CS1 17	0.0	1.00	C18_5	YES



170418L1_42_P1_E1-ST170418L1-9537DWCS1 17D1815-537DWCS1 17D1815



ID	Name	Conc	DL	%Ref	EMPC	Abn Resp	RPF	RT	#	SA	RA	Y/N	RRT	Abn Date	Appl Time	1st Chk/Ret	D	Sample Ind	Factor	SN	Chk No	MOD
1	PFBS	8.8350455	0.002548	98.8		8.541e3	3.42	1	10				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
2	PFHxA	10.8322595	0.00255	108.2		1.525e4	3.06	2	19				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFHpA	10.794162	0.00437	107.9		1.840e4	4.26	3	10				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
4	PFHxS	8.4323584	0.00421	103.4		7.549e3	4.38	4	19				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.715662	0.00579	107.2		2.694e4	4.64	5	16				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
6	PFNA	11.755404	0.00217	117.6		2.141e4	4.64	6	18				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.362811	0.00220	111.9		7.241e3	5.60	7	15				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.464990	0.00115	114.6		1.135e4	5.21	8	18				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
9	NAH-FOSAA							9	20				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
10	NAH-FOSAA							10	20				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
11	PFHxA							11	10				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
12	PFDA							12	16				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
13	PFHxS	11.430879	0.00207	114.4		1.530e4	5.64	13	16				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
14	PFHxS	11.241757	0.00208	112.4		1.372e4	6.00	14	18				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
15	13C2-PFHxA	10.708287	0.005920	107.1		1.915e4	6.742	3.79	15	16			0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
16	13C2-PFDA	8.0008417	0.00148	0.0		1.374e0	6.676	5.32	16	18			0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
17	es-N-EFOSAA		0.00458				6.846	17	20				0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
18	13C2-PFDA	10.000000	0.000304	100.0		2.409e4	1.000	4.64	16	18			0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
19	13C4-PFOS	28.700600	0.00242	100.0		1.762e4	1.000	4.99	19	15			0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
20	es-N-EFOSAA	40.800000	0.00161	100.0		2.315e4	1.000	5.32	20	20			0.000	19-Apr-17	01:09:50		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES



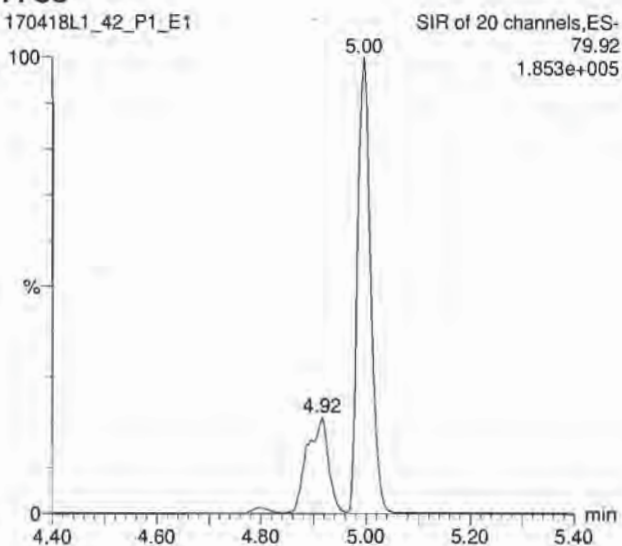
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Printed: Wednesday, April 19, 2017 10:18:08 Pacific Daylight Time

ID: ST170418L1-9 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_42.wiff, Date: 19-Apr-2017, Time: 01:09:58, Instrument: , Lab: ©PE-SCIEX,
User: sciex

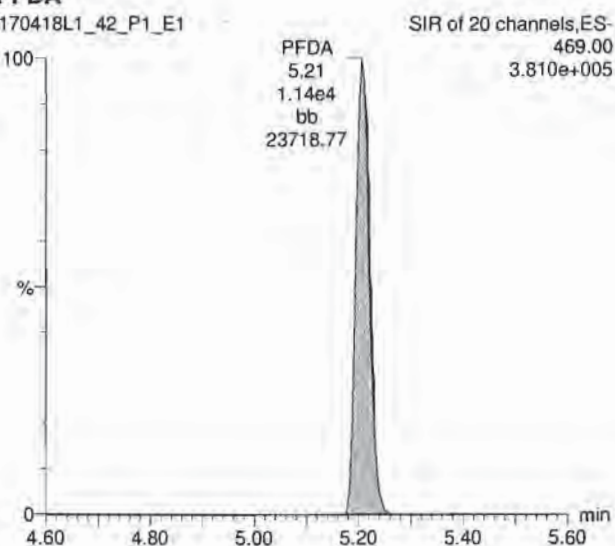
PFOS

170418L1_42_P1_E1



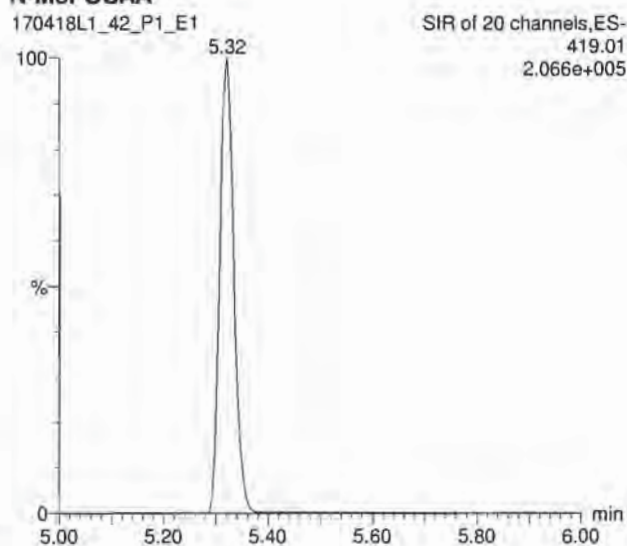
PFDA

170418L1_42_P1_E1



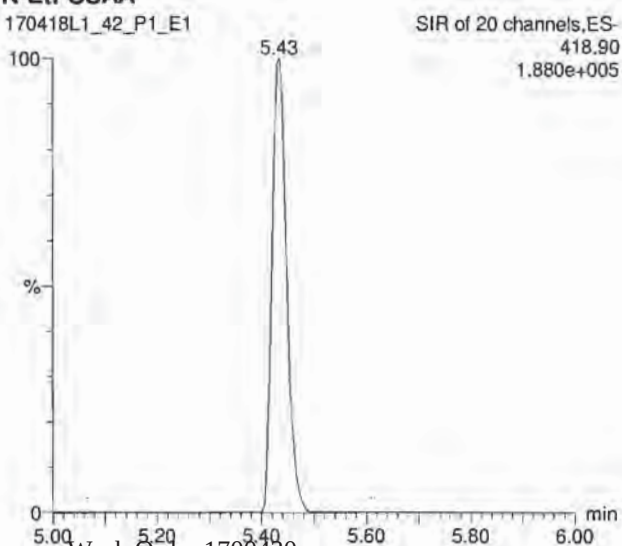
N-MeFOSAA

170418L1_42_P1_E1



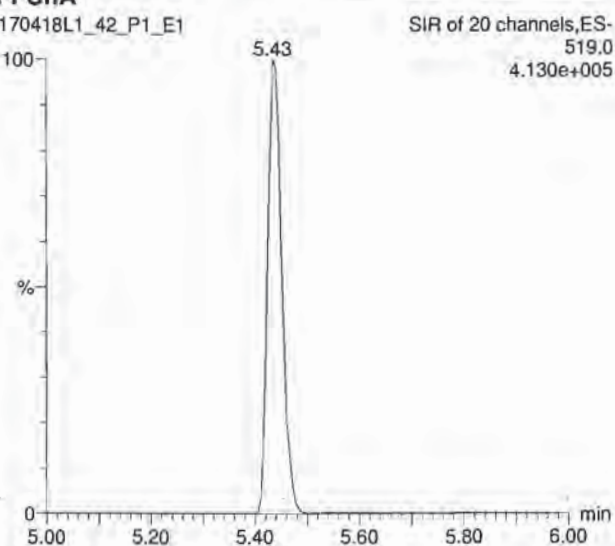
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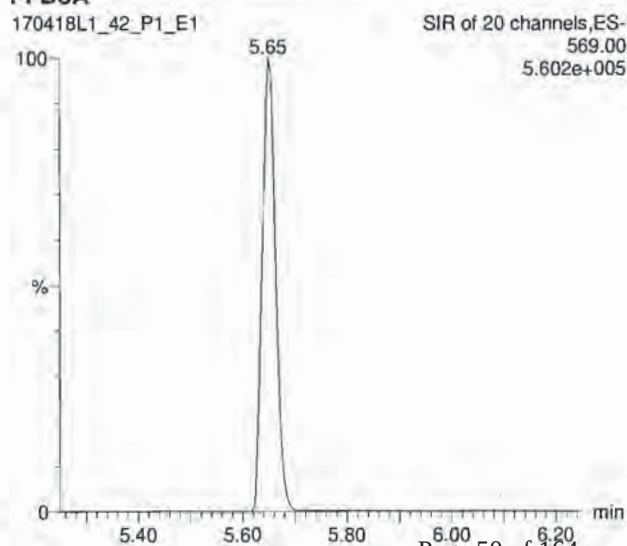
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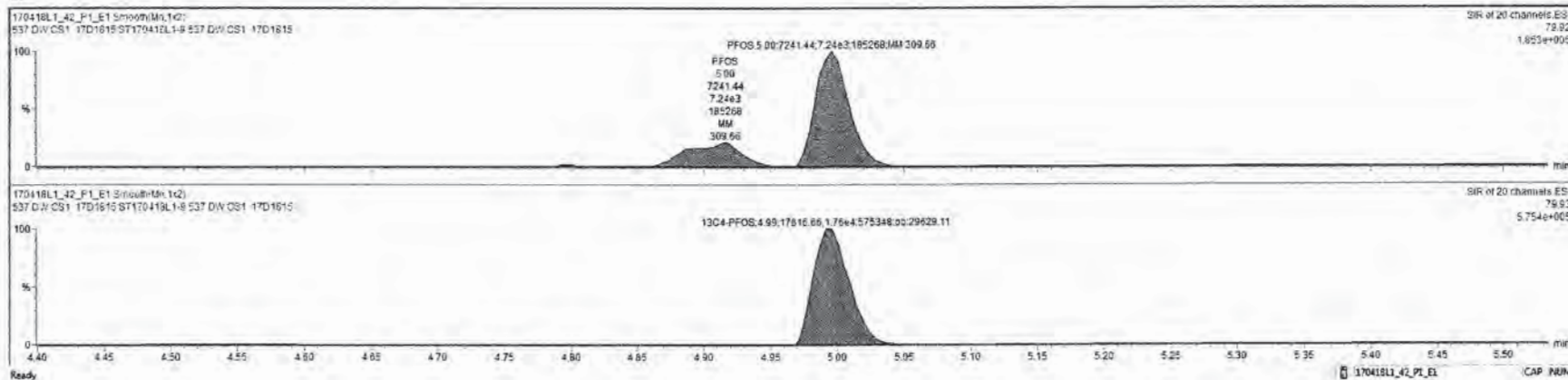


PFDaA

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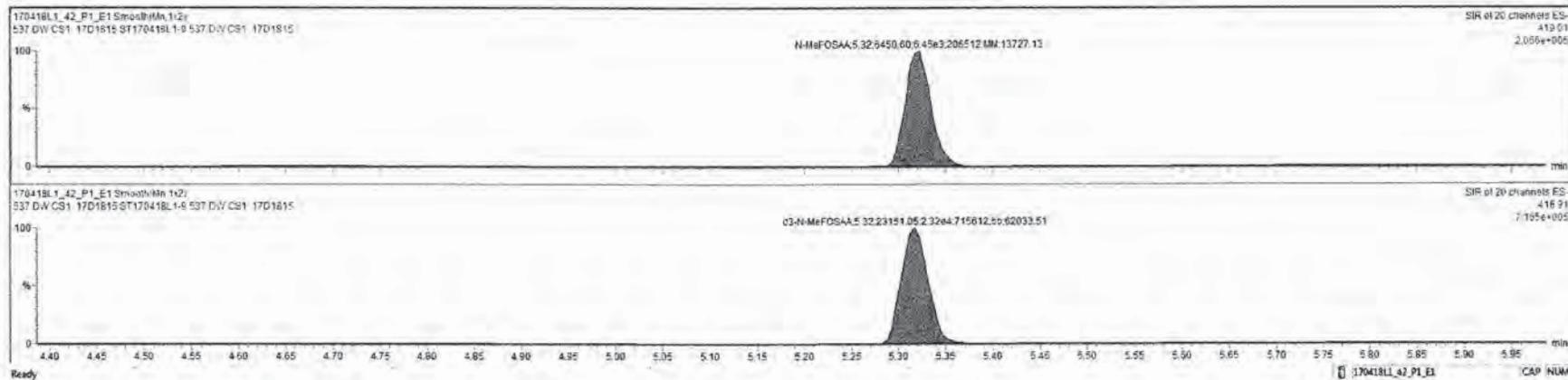


170418L1_42_P1_E1-ST170418L1-9-537 DW CS1 17D1815-537 DWCS1 17D1815																						
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1	PFOS	8.826940	0.00040	89.6		8.54143		3.42	1	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
2	PFNA	10.532395	0.00253	106.3		1.52544		3.80	2	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFHpA	10.794162	0.00437	107.9		1.84504		4.20	3	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
4	PFHpS	9.4275804	0.00421	103.4		7.34902		4.30	4	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.715862	0.00579	107.2		2.89444		4.64	5	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
6	PFNA	11.758404	0.00217	117.6		2.14164		4.94	6	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.362811	0.0028	111.9		7.24142		5.00	7	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.494890	0.00118	114.8		1.13644		5.21	8	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
9	N-MeFOSAA							9	20					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
10	N-EFOSAA							10	20					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
11	PFNA							11	19					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
12	PFDA							12	19					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
13	PFTrCA	11.436679	0.00207	118.4		1.53044		5.94	13	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
14	PFTrCA	11.241757	0.00298	112.4		1.37264		6.00	14	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
15	13C2-PFNA	10.708267	0.00020	107.1		1.91564	0.742	3.78	15	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
16	13C2-PFDA	0.0000417	0.00148	6.0		1.37460	0.678	5.33	16	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
17	d5-NEFOSAA		0.00458				0.846	17	20					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
18	13C2-PFDA	10.600000	0.000304	106.0		2.40904	1.000	4.84	18	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
19	13C4-PFOS	20.700000	0.00242	100.0		1.78264	1.000	4.88	19	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
20	d3-MeFOSAA	40.600000	0.00181	100.0		2.31564	1.000	5.32	20	20			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES

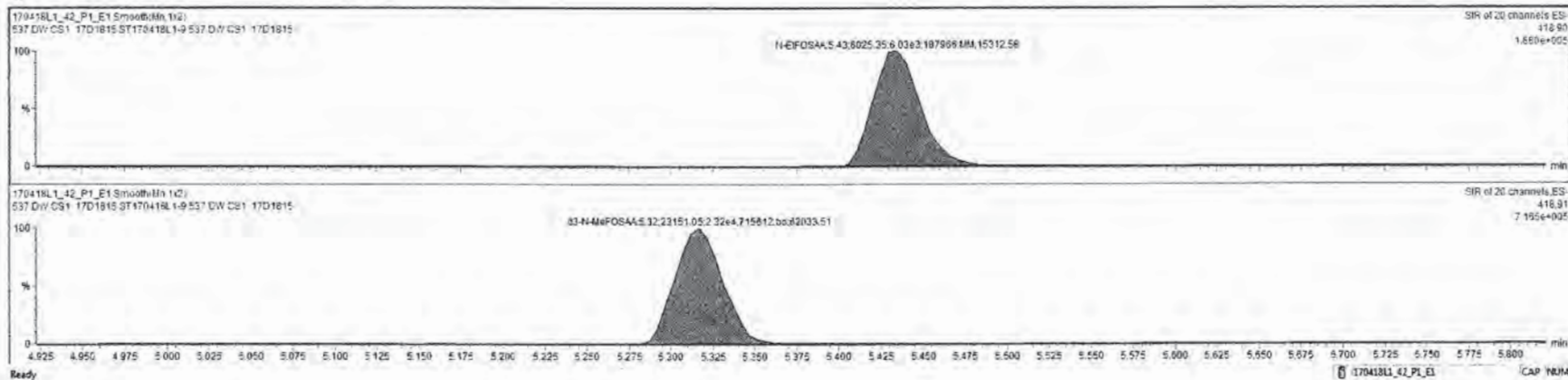


170418L1_42_P1_E1-ST170418L1-9 537 DW CS1 17D1815-537 DW CS1 17D1815

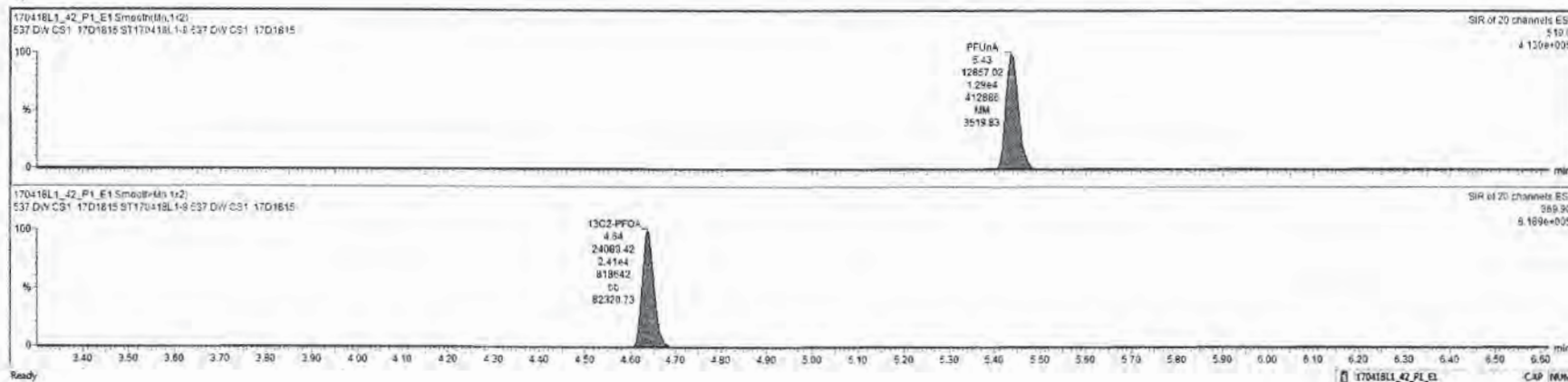
#	Name	Conc.	DL	%Rec	EMPC	AbsOrmp	RSP	ITC	#	Elr	RA	YIN	RRT	Acq Date	Acq Time	# Ch/Alpex	ID	Genetic Test	Factor1	Site	Cell File	YADL
1	PFBS	8.8350400	0.000948	99.0		8.541e2		3.42	1	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
2	PFMSA	10.8523600	0.002553	100.0		1.525e4		3.80	2	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFMSA	10.7941600	0.004337	107.6		1.643e4		4.26	3	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
4	PFMSA	9.4375600	0.004421	103.4		7.549e3		4.36	4	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.7159800	0.00379	107.2		2.094e4		4.64	5	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
6	PFDA	10.7159400	0.00379	117.6		2.141e4		4.94	6	10			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.302811	0.0628	111.5		7.241e3		5.00	7	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.4640900	0.00119	114.8		1.135e4		5.21	8	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
9	N-MeFOSAA	12.147575	0.00273	121.5		6.451e3		6.30	9	20			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
10	N-MeFOSAA							10	20					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
11	PFMSA							11	18					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
12	PFMSA							12	18					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
13	PFMSA	11.435675	0.00207	114.4		1.535e4		5.84	13	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
14	PFMSA	11.241757	0.00260	112.4		1.572e4		6.00	14	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
15	13C2-PFMSA	10.700267	0.000522	107.1		1.915e4	0.742	3.78	15	16			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
16	13C2-PFMSA	8.0006417	0.00148	0.0		1.374e3	0.878	9.33	16	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
17	d5-N-MeFOSAA		0.00458			0.846		17	20					19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
18	13C2-PFMSA	10.8500000	0.00304	100.0		2.405e4	1.300	4.64	18	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
19	13C2-PFOS	28.7000000	0.00242	100.0		1.762e4	1.300	4.98	19	19			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
20	d3-N-MeFOSAA	40.0000000	0.00161	100.0		2.315e4	1.300	6.32	20	20			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES



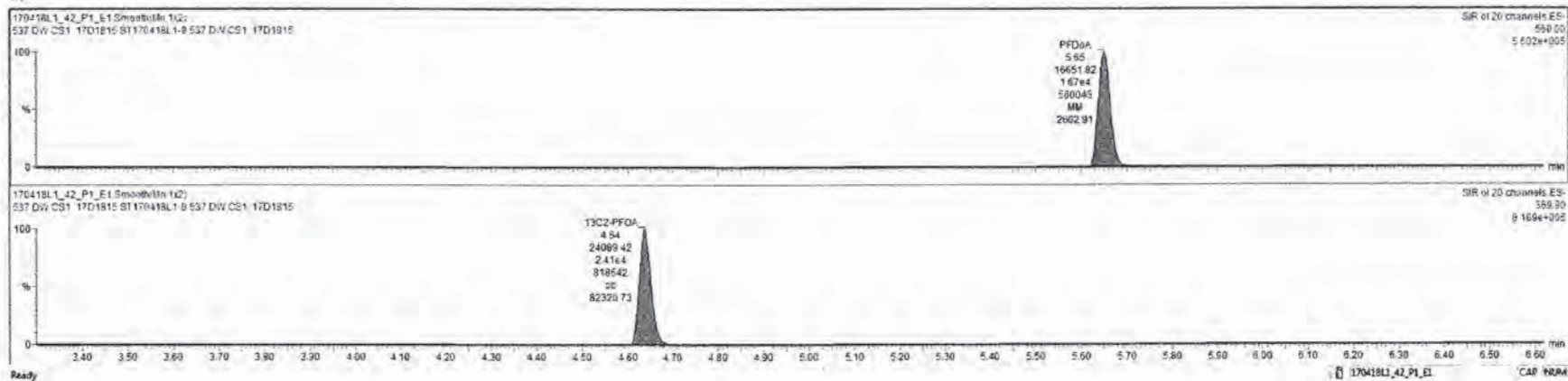
N	Name	Comp	DL	%Rec	YIAPC	Abs Resp	SIR	RT	P	SA	YR	PRT	Acq Date	Acq Time	1 st Chk/Sec	ID	Sample Text	Factor1	SW	Cal File	Model
1	PFBS	9.6752402	0.005945	99.8		5.541e0		3.42	1	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
2	PFHSA	10.8325595	0.002553	106.3		1.525e4		3.50	2	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
3	PFHSA	10.794162	0.00437	107.5		1.840e4		4.28	3	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
4	PFHSA	9.4275804	0.00421	103.4		7.349e3		4.58	4	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
5	PFDA	10.715692	0.00579	107.2		2.091e4		4.84	5	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
6	PFDA	11.755404	0.00217	117.5		2.741e4		4.94	6	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
7	PFOS	10.302011	0.0028	111.5		7.241e3		5.00	7	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
8	PFDA	11.484990	0.00115	114.6		1.138e4		5.21	8	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
9	N-MeFOSAA	12.147575	0.00231	121.5		6.451e3		5.32	9	20		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
10	N-MeFOSAA	12.420275	0.00197	124.2		6.825e3		5.43	10	20		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
11	PFHSA							11	12				19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	NO
12	PFDA							12	10				19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	NO
13	PFHSA	11.438675	0.00207	114.4		1.530e4		5.64	13	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
14	PFHSA	11.241757	0.00250	112.4		1.372e4		6.00	14	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
15	13C2-PFHSA	10.706267	0.000920	107.1		1.915e4	0.742	3.79	15	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES
16	13C2-PFDA	0.0002417	0.00148	0.0		1.374e0	0.678	5.23	16	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	NO
17	15-N-MeFOSAA					0.346		17	20				19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	NO
18	13C2-PFDA	10.000000	0.000304	100.0		2.409e4	1.000	4.64	18	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	NO
19	13C4-PFOS	26.700000	0.00242	100.0		1.702e4	1.000	4.99	19	15		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	NO
20	13-N-MeFOSAA	40.000000	0.00101	100.0		2.315e4	1.000	5.32	20	20		0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17...	0.0	1.00	C18_5	YES



#	Name	Conc.	DL	%Rec	EMPC	AbnRelnc	SNP	ST	#	ES	RA	Y/N	RT	Acq Date	Acq Time	1 st Ch Noise	Q	Sample Test	Fechar1	SNR	ChkFile	MDL
1	PFBS	8.8356405	0.002943	99.0		8.541e3		3.42	1	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
2	PFHxA	10.8325805	0.00253	106.3		1.525e4		3.86	2	18			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFHpA	16.794182	0.00437	167.9		1.840e4		4.20	3	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
4	PFHxS	9.4275824	0.00421	163.4		7.345e3		4.30	4	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.7155662	0.00579	167.2		2.094e4		4.64	5	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
6	PFNA	11.755464	0.00217	117.6		2.141e4		4.94	6	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.362811	0.0028	111.6		7.241e3		5.00	7	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.464890	0.00118	114.8		1.130e4		5.21	8	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
9	N-MeFOSAA	12.147575	0.00211	121.5		6.451e3		5.32	9	20			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
10	N-EFOSAA	12.428575	0.00191	124.3		6.825e3		5.43	10	20			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
11	PFUnA	11.435287	0.00742	114.8		1.380e4		5.43	11	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
12	PFDA							5.84	12	18			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
13	PFTrDA	11.433875	0.00207	114.4		1.530e4		5.84	13	18			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
14	PFTrDA	11.241757	0.00256	112.4		1.372e4		6.00	14	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
15	13C2-PFHxA	10.706267	0.000920	107.1		1.815e4	0.742	3.76	15	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
16	13C2-PFDA	0.0008417	0.00148	9.0		1.374e3	0.675	5.33	16	18			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
17	6S-R-EFOSAA		0.00450				0.848	17	20				0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
18	13C2-PFDA	10.600000	0.000304	100.0		2.499e4	1.030	4.54	18	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
19	13C4-PFOS	28.700000	0.00242	100.0		1.762e4	1.080	4.95	19	15			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
20	6S-R-MeFOSAA	40.000000	0.00181	100.0		2.315e4	1.300	5.32	20	20			0.000	18-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES



170418L1_42_P1_E1-ST170418L1-9.537/DWCS1 17D1815-537/DWCS1 17D1815																						
ID	Name	Chc	DL	%Rec	EMPC	Alt Resp	RDF	RT	#	SR	RA	YRL	PKT	Acq Date	Acq Time	1 st Chrt Name	D	Sample Test	Factor1	SW	CalFile	MSL
1	PFBS	6.6350405	0.002945	99.8		6.541e3		3.42	1	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
2	PFHxA	10.632595	0.00305	100.3		1.525e4		3.80	2	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
3	PFHxA	10.754162	0.00437	107.9		1.640e4		4.28	3	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
4	PFHxS	9.4275804	0.00421	107.4		7.349e3		4.38	4	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
5	PFOA	10.715662	0.00579	107.2		2.094e4		4.64	5	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
6	PFNA	11.758404	0.00217	117.6		2.141e4		4.94	6	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
7	PFOS	10.302811	0.0028	111.9		7.241e3		5.00	7	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
8	PFOA	11.404890	0.00118	114.8		1.136e4		5.21	8	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
9	N-MeFOSAA	12.147575	0.00211	121.5		6.451e3		5.32	9	20			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
10	N-MeFOSAA	12.428575	0.00197	124.3		6.025e3		5.43	10	20			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
11	PFUnA	11.459087	0.00742	114.8		1.286e4		5.43	11	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
12	PFDA	11.304704	0.0105	116.0		1.805e4		5.62	12	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
13	PFDA	11.430678	0.00207	114.4		1.530e4		5.64	13	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
14	PFDA	11.241727	0.00285	112.4		1.572e4		6.00	14	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
15	13C2-PFHxA	10.702267	0.000920	107.1		1.915e4	0.742	3.79	15	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	
16	13C2-PFOA	6.0006417	0.00148	0.0		1.374e3	0.678	5.32	16	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	NO	
17	6F-N-ESFOSAA		0.00458			0.846		17	20					19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	NO	
18	13C2-PFOA	10.000000	0.003304	100.0		2.409e4	1.000	4.64	18	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	NO	
19	13C4-PFOS	26.700000	0.00242	100.0		1.762e4	1.000	4.99	19	19			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	NO	
20	d3-N-MeFOSAA	40.000000	0.00181	100.0		2.315e4	1.000	5.32	20	20			0.000	19-Apr-17	01:09:58	ST170418L	537 DW CS1 17...	0.0	1.00	C18_5	YES	



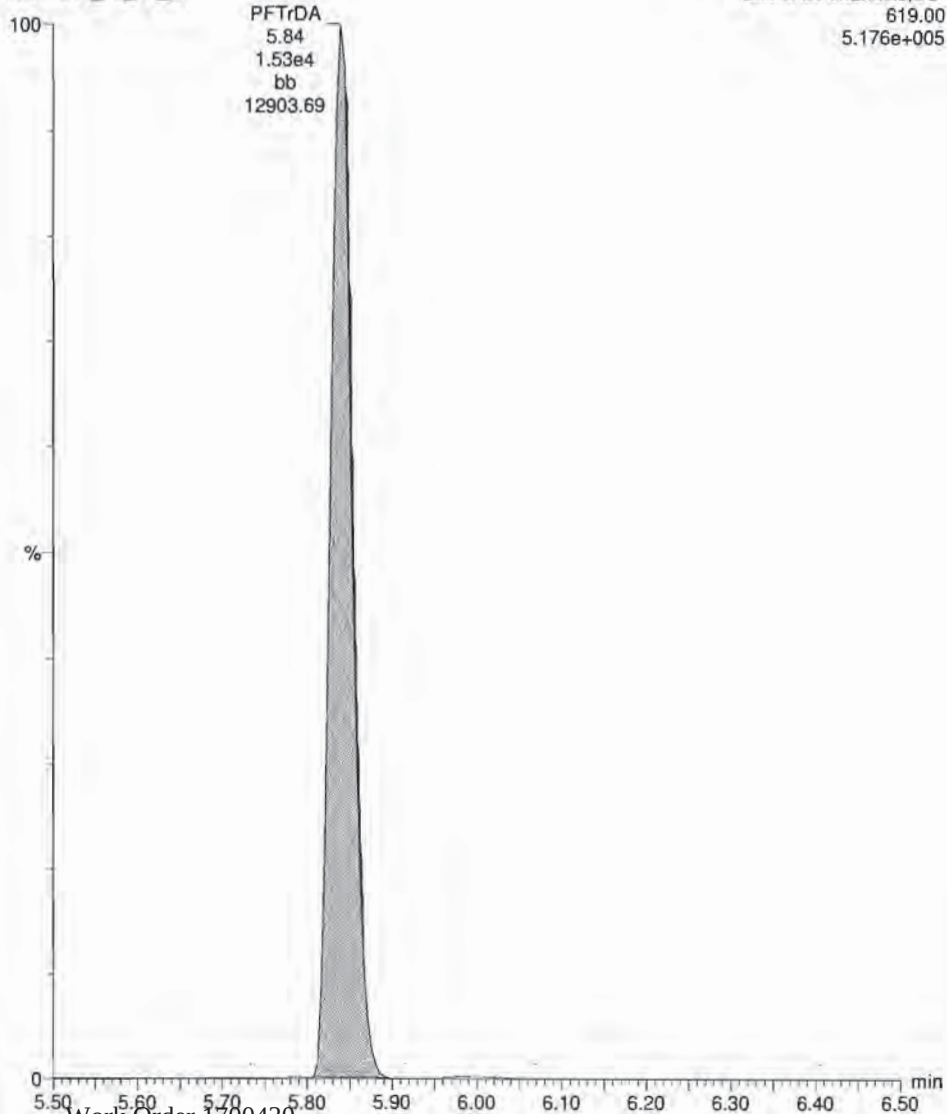
Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:17:26 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:18:08 Pacific Daylight Time

ID: ST170418L1-9 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_42.wiff, Date: 19-Apr-2017, Time: 01:09:58, Instrument: , Lab: ©PE-SCIEX,
User: sciex

PFTrDA

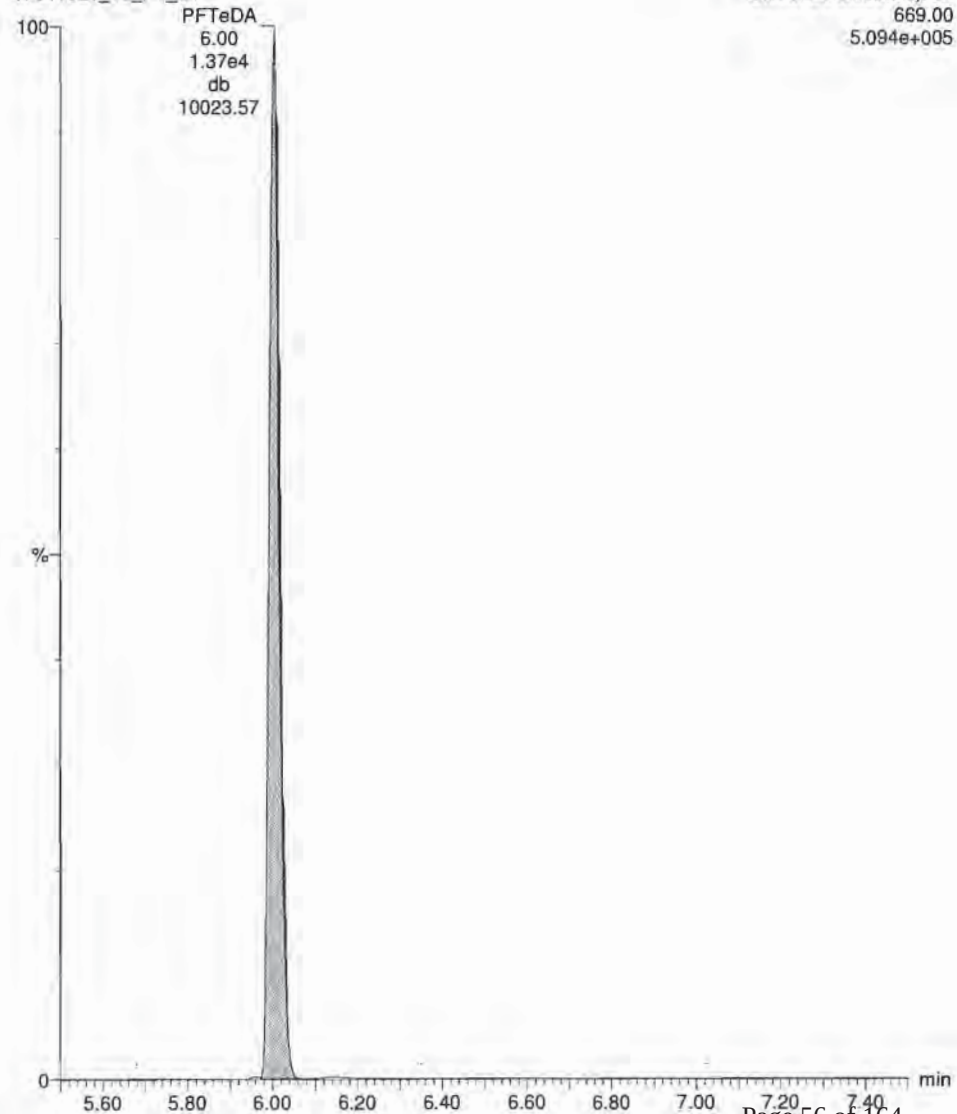
170418L1_42_P1_E1



Work Order 1700430

PFTeDA

170418L1_42_P1_E1



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Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:17:26 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:18:08 Pacific Daylight Time

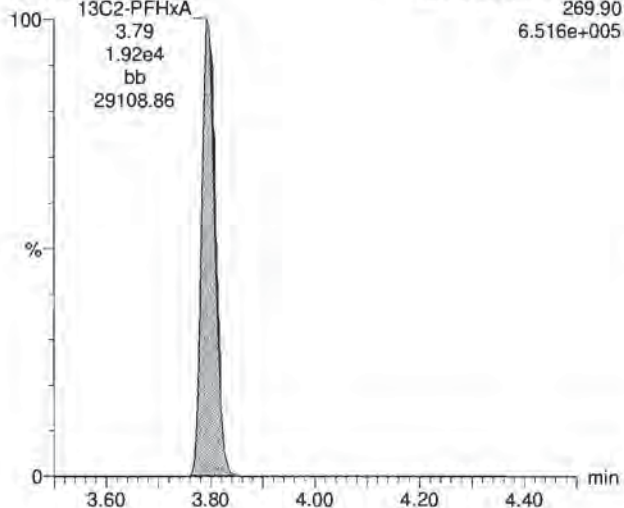
ID: ST170418L1-9 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_42.wiff, Date: 19-Apr-2017, Time: 01:09:58, Instrument: , Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

170418L1_42_P1_E1

13C2-PFHxA
3.79
1.92e4
bb
29108.86

SIR of 20 channels, ES-
269.90
6.516e+005

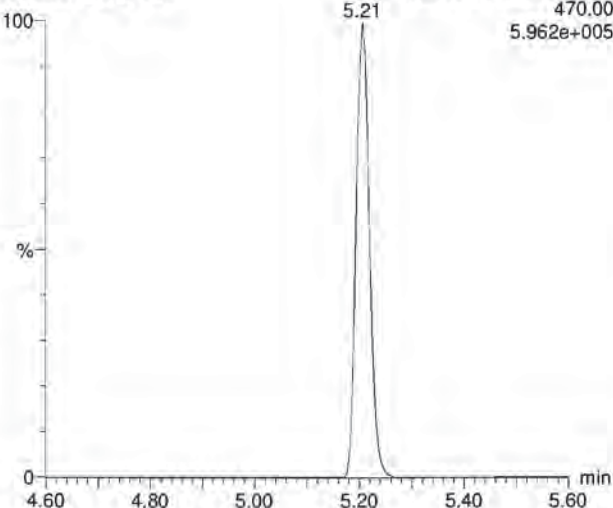


13C2-PFDA

170418L1_42_P1_E1

5.21

SIR of 20 channels, ES-
470.00
5.962e+005

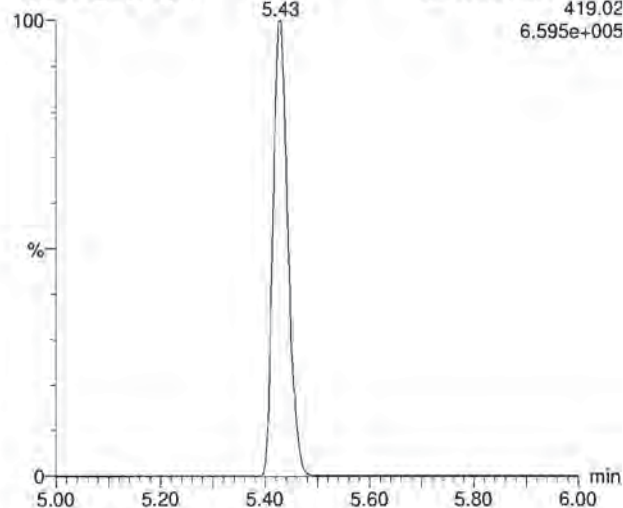


d5-N-EtFOSAA

170418L1_42_P1_E1

5.43

SIR of 20 channels, ES-
419.02
6.595e+005

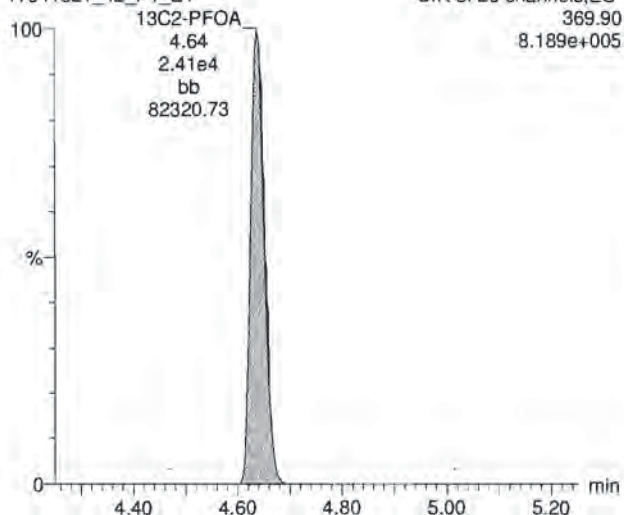


13C2-PFOA

170418L1_42_P1_E1

13C2-PFOA
4.64
2.41e4
bb
82320.73

SIR of 20 channels, ES-
369.90
8.189e+005

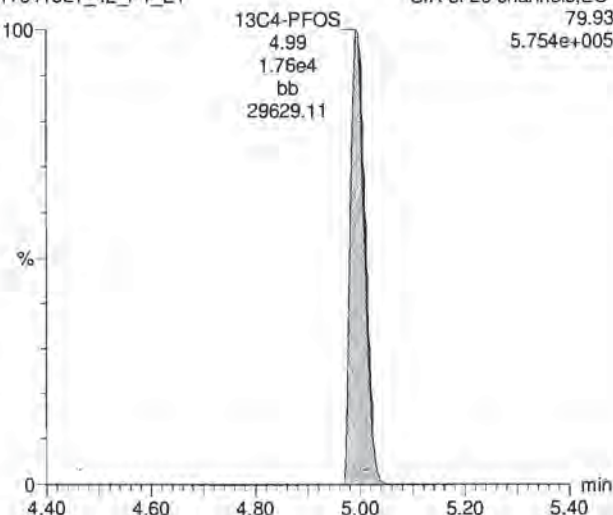


13C4-PFOS

170418L1_42_P1_E1

13C4-PFOS
4.99
1.76e4
bb
29629.11

SIR of 20 channels, ES-
79.93
5.754e+005

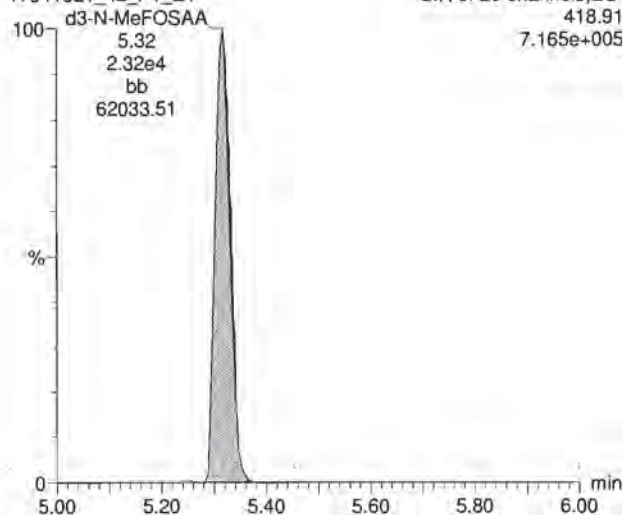


d3-N-MeFOSAA

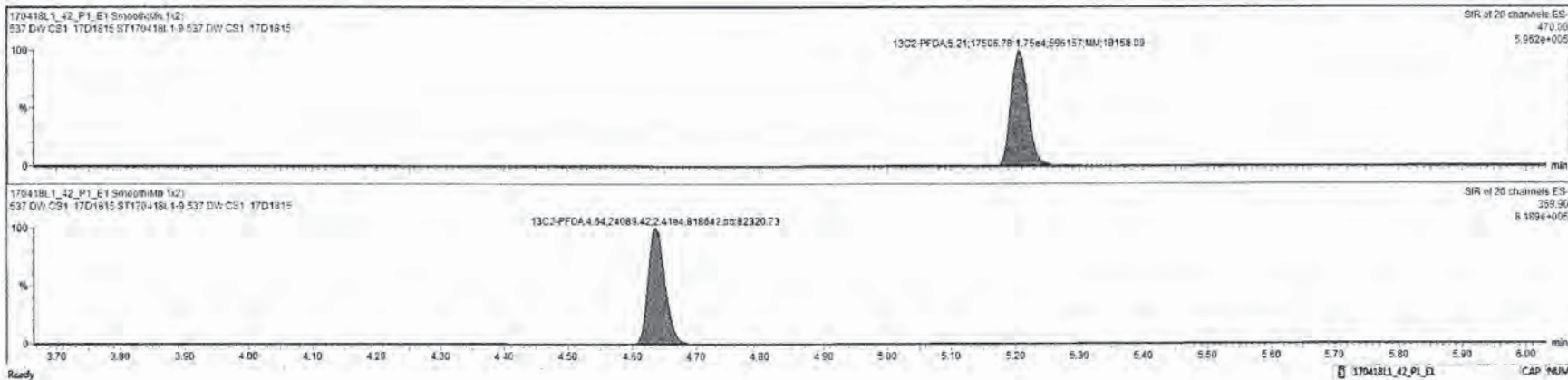
170418L1_42_P1_E1

d3-N-MeFOSAA
5.32
2.32e4
bb
62033.51

SIR of 20 channels, ES-
418.91
7.165e+005

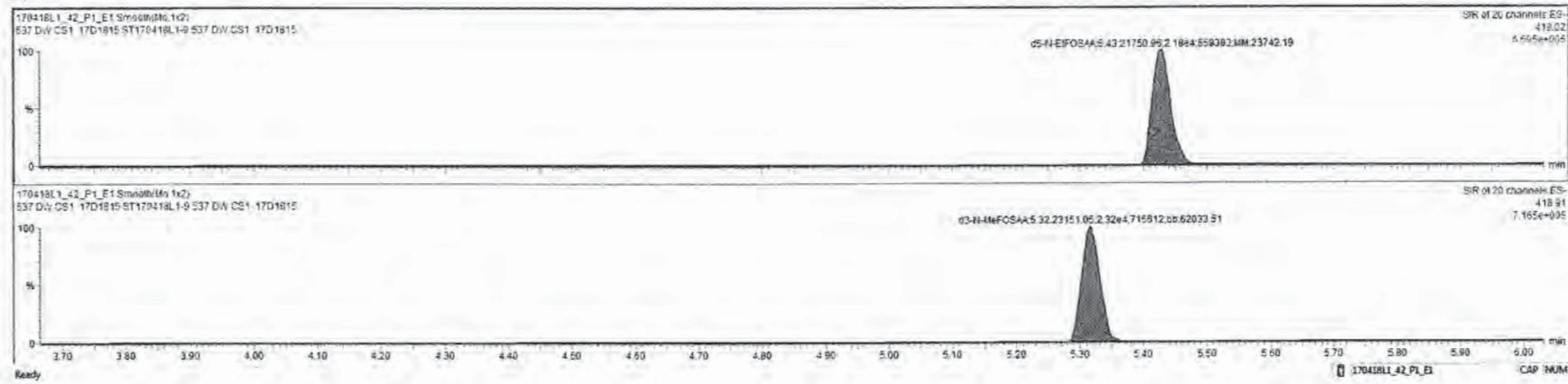


#	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RSP	RT	#	SR	RA	Y/N	QRT	Acq Date	Acq Time	1 st Chrt No	ID	Sample Test	Factor1	DW	Cal File	MSDL
1	PFBS	8.635040E	0.00948	99.2		8.541e3	3.43	1	15				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFHxA	10.832595	0.50253	108.3		1.525e4	3.06	2	19				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFHxA	10.794162	0.50437	107.5		1.840e4	4.28	3	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
4	PFHxA	9.427586E	0.00421	102.4		7.349e3	4.38	4	19				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.715682	0.50579	107.2		2.094e4	4.84	5	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
6	PFNA	11.753464	0.50217	117.6		2.141e4	4.84	6	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.362811	0.5028	111.8		7.541e3	5.00	7	19				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.484590	0.50118	114.6		1.138e4	5.21	8	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
9	N-MeFOSAA	12.147575	0.50211	121.5		8.451e3	5.32	9	20				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
10	N-MeFOSAA	12.428575	0.50197	124.3		6.025e3	5.43	10	20				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
11	PFUnA	11.459287	0.50742	114.8		1.206e4	5.43	11	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
12	PFDA	11.954784	0.5105	119.9		1.885e4	5.65	12	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
13	PFTDA	11.430678	0.50207	114.4		1.530e4	5.84	13	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
14	PFTDA	11.241757	0.50286	112.4		1.372e4	6.00	14	18				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
15	13C2-PFHxA	10.705267	0.009820	107.1		1.915e4	0.742	3.79	15	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
16	13C2-PFDA	10.722543	0.50160	107.3		1.751e4	0.078	5.21	16	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES
17	c5-N-MeFOSAA		0.50458			0.846		17	20				0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
18	13C2-PFDA	10.800000	0.000304	100.0		2.409e4	1.000	4.64	18	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
19	13C4-PFOS	28.790000	0.00242	100.0		1.782e4	1.800	4.98	19	18			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	NO
20	c3-N-MeFOSAA	40.900000	0.00181	100.0		2.315e4	1.000	5.32	20	20			0.000	19-Apr-17	01:09:58		ST170418L1	537 DW CS1 17	0.0	1.00	C18_5	YES



170418L1_42_P1_E1-ST170418L1-9-537 DW CS1 17D1815 -537 DW CS1 17D1815

#	Name	Conc.	CL	%Rec	EMPC	Area	Ratio	FWHM	RT	#	El	SA	Y/N	RT1	Acq.Def	Acq.Time	1st ChrtName	ID	Sample Text	Factor1	Strt	Cal File	MDL
1	PFBS	8.6750405	0.000943	99.0		8.541e2		3.42	1	19				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
2	PFDA	10.832595	0.00231	100.0		1.525e4		2.80	2	19				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
3	PFHxA	10.784163	0.00437	107.9		1.845e4		4.28	3	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
4	PFHxS	9.4275804	0.000421	103.4		7.349e3		4.30	4	19				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
5	PFDA	10.715682	0.00579	107.2		2.894e4		4.84	5	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
6	PFNA	11.758404	0.00217	117.6		2.141e4		4.84	6	19				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
7	PFOS	10.382811	0.0028	111.5		7.241e3		5.00	7	19				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
8	PFDA	11.484960	0.00118	114.6		1.138e4		5.21	8	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
9	N-MeFOSAA	12.147575	0.00211	121.5		6.451e3		5.32	9	20				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
10	N-EFOSAA	12.428575	0.00197	124.7		6.025e3		5.43	10	20				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
11	PFHxA	11.459287	0.00742	114.6		1.295e4		5.43	11	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
12	PFDA	11.864784	0.0105	119.9		1.885e4		5.65	12	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
13	PFHxDA	11.430873	0.00207	114.4		1.530e4		5.64	13	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
14	PFHxDA	11.241787	0.00288	112.4		1.372e4		6.00	14	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
15	13C3-PFHxA	10.708367	0.000820	107.1		1.915e4	0.742	3.79	15	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
16	13C3-PFDA	10.725743	0.00148	107.3		1.751e4	0.678	5.21	16	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
17	5E-N-EFOSAA	44.597363	0.00456	111.0		2.179e4	0.640	5.43	17	20				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES
18	13C3-PFDA	10.000000	0.002304	100.0		2.439e4	1.000	4.64	18	18				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
19	13C3-PFOS	28.700000	0.00242	100.0		1.782e4	1.000	4.99	19	19				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	NO
20	03-N-MeFOSAA	40.000000	0.00161	100.0		2.315e4	1.000	5.32	20	20				0.000	19-Apr-17	01:09:58		ST170418L	537 DW CS1 17	0.0	1.00	C18_5	YES



INITIAL CALIBRATION

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\4-18-17-DW.cdb 19 Apr 2017 09:10:24

C18-537-Q3-04-18-17-L14.cdb

ES 4/19/17

Compound name: PFBS

Coefficient of Determination: $R^2 = 0.996205$

Calibration curve: $-0.0141699 * x^2 + 1.7001 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

Qm 4/19/17

ES 4/19/17

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.443	3.55	3.78e2	1.41e4	0.454	2.5	1.74
2	2 170418L1_03_P1_...	0.885	3.43	7.59e2	1.49e4	0.864	-2.4	1.65
3	3 170418L1_04_P1_...	1.77	3.49	1.42e3	1.55e4	1.57	-11.3	1.49
4	4 170418L1_05_P1_...	4.42	3.44	3.55e3	1.54e4	4.03	-8.9	1.50
5	5 170418L1_06_P1_...	8.85	3.54	6.79e3	1.27e4	9.84	11.2	1.74
6	6 170418L1_07_P1_...	13.3	3.50	9.62e3	1.41e4	12.9	-2.6	1.48
7	7 170418L1_08_P1_...	17.7	3.49	1.28e4	1.40e4	18.3	3.5	1.49
8	8 170418L1_09_P1_...	22.1	3.58	1.72e4	1.65e4	21.4	-3.1	1.35

Compound name: PFHxA

Coefficient of Determination: $R^2 = 0.996281$

Calibration curve: $-0.0224442 * x^2 + 2.53689 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	3.91	6.61e2	1.41e4	0.531	6.3	2.68
2	2 170418L1_03_P1_...	1.00	3.81	1.33e3	1.49e4	1.02	1.7	2.56
3	3 170418L1_04_P1_...	2.00	3.85	2.50e3	1.55e4	1.86	-6.9	2.32
4	4 170418L1_05_P1_...	5.00	3.81	6.11e3	1.54e4	4.68	-6.5	2.27
5	5 170418L1_06_P1_...	10.0	3.90	1.12e4	1.27e4	11.1	10.5	2.53
6	6 170418L1_07_P1_...	15.0	3.85	1.52e4	1.41e4	14.0	-7.0	2.07
7	7 170418L1_08_P1_...	20.0	3.85	2.10e4	1.40e4	20.9	4.3	2.16
8	8 170418L1_09_P1_...	25.0	3.95	2.80e4	1.65e4	24.6	-1.8	1.95

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.990109$

Calibration curve: $-0.000318798 * x^2 + 0.711202 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	4.40	8.85e2	1.79e4	0.696	39.2	0.990
2	2 170418L1_03_P1_...	1.00	4.29	1.74e3	2.04e4	1.21	20.5	0.857
3	3 170418L1_04_P1_...	2.00	4.29	3.20e3	2.27e4	1.98	-0.8	0.705
4	4 170418L1_05_P1_...	5.00	4.28	7.99e3	2.26e4	4.98	-0.3	0.707
5	5 170418L1_06_P1_...	10.0	4.39	1.45e4	1.87e4	11.0	9.8	0.777
6	6 170418L1_07_P1_...	15.0	4.34	1.97e4	2.12e4	13.2	-12.1	0.621
7	7 170418L1_08_P1_...	20.0	4.32	2.68e4	2.02e4	18.9	-5.6	0.665
8	8 170418L1_09_P1_...	25.0	4.46	3.67e4	1.96e4	26.6	6.4	0.748

Compound name: PFHxS

Coefficient of Determination: $R^2 = 0.998274$

Calibration curve: $-0.0114883 * x^2 + 1.37834 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.455	4.50	3.20e2	1.41e4	0.474	4.2	1.43
2	2 170418L1_03_P1_...	0.910	4.39	6.55e2	1.49e4	0.920	1.1	1.38
3	3 170418L1_04_P1_...	1.82	4.39	1.27e3	1.55e4	1.73	-4.7	1.29
4	4 170418L1_05_P1_...	4.56	4.38	3.10e3	1.54e4	4.34	-4.8	1.26
5	5 170418L1_06_P1_...	9.12	4.49	5.49e3	1.27e4	9.81	7.6	1.36
6	6 170418L1_07_P1_...	13.7	4.45	7.88e3	1.41e4	13.1	-4.5	1.17
7	7 170418L1_08_P1_...	18.2	4.43	1.06e4	1.40e4	18.6	2.1	1.19
8	8 170418L1_09_P1_...	22.8	4.57	1.45e4	1.65e4	22.6	-0.8	1.11

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: PFOA

Coefficient of Determination: $R^2 = 0.991438$

Calibration curve: $-0.00277048 * x^2 + 0.840755 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	4.78	1.08e3	1.79e4	0.723	44.6	1.21
2	2 170418L1_03_P1_...	1.00	4.65	1.97e3	2.04e4	1.15	15.2	0.965
3	3 170418L1_04_P1_...	2.00	4.64	3.64e3	2.27e4	1.92	-4.1	0.802
4	4 170418L1_05_P1_...	5.00	4.64	8.79e3	2.26e4	4.70	-5.9	0.779
5	5 170418L1_06_P1_...	10.0	4.76	1.68e4	1.87e4	11.1	11.0	0.899
6	6 170418L1_07_P1_...	15.0	4.72	2.34e4	2.12e4	13.8	-8.3	0.736
7	7 170418L1_08_P1_...	20.0	4.69	2.98e4	2.02e4	18.7	-6.5	0.738
8	8 170418L1_09_P1_...	25.0	4.85	3.99e4	1.96e4	26.5	5.9	0.813

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.997987$

Calibration curve: $-0.00601034 * x^2 + 0.826696 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.09	8.37e2	1.79e4	0.569	13.7	0.936
2	2 170418L1_03_P1_...	1.00	4.96	1.82e3	2.04e4	1.09	8.8	0.892
3	3 170418L1_04_P1_...	2.00	4.94	3.54e3	2.27e4	1.91	-4.4	0.779
4	4 170418L1_05_P1_...	5.00	4.94	8.69e3	2.26e4	4.82	-3.5	0.770
5	5 170418L1_06_P1_...	10.0	5.07	1.44e4	1.87e4	10.1	0.5	0.770
6	6 170418L1_07_P1_...	15.0	5.03	2.27e4	2.12e4	14.5	-3.3	0.715
7	7 170418L1_08_P1_...	20.0	5.01	3.01e4	2.02e4	21.4	6.8	0.746
8	8 170418L1_09_P1_...	25.0	5.17	3.24e4	1.96e4	24.2	-3.2	0.660

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: PFOSCoefficient of Determination: $R^2 = 0.997161$ Calibration curve: $-0.00479285 * x^2 + 1.1881 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.465	5.14	3.00e2	1.41e4	0.514	10.6	1.31
2	2 170418L1_03_P1_...	0.930	5.01	5.95e2	1.49e4	0.966	3.9	1.23
3	3 170418L1_04_P1_...	1.86	4.99	1.26e3	1.55e4	1.99	6.8	1.26
4	4 170418L1_05_P1_...	4.64	5.00	2.88e3	1.54e4	4.60	-0.8	1.16
5	5 170418L1_06_P1_...	9.26	5.12	4.92e3	1.27e4	9.75	5.3	1.20
6	6 170418L1_07_P1_...	13.9	5.08	6.99e3	1.41e4	12.6	-9.2	1.02
7	7 170418L1_08_P1_...	18.5	5.05	9.96e3	1.40e4	18.6	0.5	1.10
8	8 170418L1_09_P1_...	23.1	5.22	1.46e4	1.65e4	23.7	2.3	1.10

Compound name: PFDACoefficient of Determination: $R^2 = 0.989727$ Calibration curve: $-0.000194499 * x^2 + 0.414245 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.35	4.77e2	1.79e4	0.644	28.8	0.533
2	2 170418L1_03_P1_...	1.00	5.22	9.60e2	2.04e4	1.14	13.8	0.471
3	3 170418L1_04_P1_...	2.00	5.20	1.91e3	2.27e4	2.04	1.9	0.422
4	4 170418L1_05_P1_...	5.00	5.21	4.40e3	2.26e4	4.71	-5.8	0.389
5	5 170418L1_06_P1_...	10.0	5.34	8.77e3	1.87e4	11.4	13.9	0.469
6	6 170418L1_07_P1_...	15.0	5.30	1.12e4	2.12e4	12.8	-14.7	0.351
7	7 170418L1_08_P1_...	20.0	5.27	1.64e4	2.02e4	19.9	-0.7	0.408
8	8 170418L1_09_P1_...	25.0	5.44	2.08e4	1.96e4	25.9	3.8	0.425

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: N-MeFOSAACoefficient of Determination: $R^2 = 0.997375$ Calibration curve: $-0.0066758 * x^2 + 0.998582 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.47	2.68e2	1.96e4	0.549	9.8	1.09
2	2 170418L1_03_P1_...	1.00	5.34	5.52e2	2.32e4	0.957	-4.3	0.950
3	3 170418L1_04_P1_...	2.00	5.32	1.24e3	2.54e4	1.98	-1.0	0.976
4	4 170418L1_05_P1_...	5.00	5.32	2.71e3	2.47e4	4.52	-9.5	0.876
5	5 170418L1_06_P1_...	10.0	5.45	4.85e3	2.05e4	10.1	1.5	0.944
6	6 170418L1_07_P1_...	15.0	5.41	7.11e3	2.07e4	15.3	2.2	0.916
7	7 170418L1_08_P1_...	20.0	5.39	9.60e3	2.11e4	21.3	6.3	0.911
8	8 170418L1_09_P1_...	25.0	5.55	1.08e4	2.16e4	23.7	-5.1	0.798

Compound name: N-EtFOSAACoefficient of Determination: $R^2 = 0.995919$ Calibration curve: $-0.0027634 * x^2 + 0.8721 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.56	2.57e2	1.96e4	0.603	20.6	1.05
2	2 170418L1_03_P1_...	1.00	5.45	5.78e2	2.32e4	1.14	14.5	0.995
3	3 170418L1_04_P1_...	2.00	5.43	1.21e3	2.54e4	2.20	9.8	0.951
4	4 170418L1_05_P1_...	5.00	5.43	2.78e3	2.47e4	5.24	4.7	0.898
5	5 170418L1_06_P1_...	10.0	5.56	4.17e3	2.05e4	9.60	-4.0	0.811
6	6 170418L1_07_P1_...	15.0	5.52	5.87e3	2.07e4	13.6	-9.3	0.757
7	7 170418L1_08_P1_...	20.0	5.50	8.92e3	2.11e4	20.8	3.8	0.846
8	8 170418L1_09_P1_...	25.0	5.65	1.10e4	2.16e4	25.4	1.5	0.814

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.995481$

Calibration curve: $-0.00150718 * x^2 + 0.483025 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.57	5.48e2	1.79e4	0.636	27.2	0.613
2	2 170418L1_03_P1_...	1.00	5.45	1.14e3	2.04e4	1.16	15.9	0.558
3	3 170418L1_04_P1_...	2.00	5.44	2.33e3	2.27e4	2.14	7.1	0.514
4	4 170418L1_05_P1_...	5.00	5.44	5.39e3	2.26e4	5.02	0.4	0.477
5	5 170418L1_06_P1_...	10.0	5.56	8.89e3	1.87e4	10.2	1.6	0.475
6	6 170418L1_07_P1_...	15.0	5.52	1.31e4	2.12e4	13.4	-11.0	0.412
7	7 170418L1_08_P1_...	20.0	5.50	1.86e4	2.02e4	20.4	2.2	0.462
8	8 170418L1_09_P1_...	25.0	5.65	2.23e4	1.96e4	25.6	2.4	0.455

Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.994775$

Calibration curve: $-0.00416026 * x^2 + 0.626194 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.76	6.40e2	1.79e4	0.574	14.8	0.716
2	2 170418L1_03_P1_...	1.00	5.66	1.66e3	2.04e4	1.31	31.0	0.813
3	3 170418L1_04_P1_...	2.00	5.66	2.88e3	2.27e4	2.05	2.5	0.633
4	4 170418L1_05_P1_...	5.00	5.65	6.90e3	2.26e4	5.05	1.0	0.611
5	5 170418L1_06_P1_...	10.0	5.76	1.02e4	1.87e4	9.33	-6.7	0.548
6	6 170418L1_07_P1_...	15.0	5.72	1.69e4	2.12e4	14.0	-6.4	0.531
7	7 170418L1_08_P1_...	20.0	5.70	2.33e4	2.02e4	21.5	7.4	0.577
8	8 170418L1_09_P1_...	25.0	5.84	2.54e4	1.96e4	24.7	-1.1	0.517

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.998428$

Calibration curve: $-0.00320651 * x^2 + 0.591825 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	5.92	6.53e2	1.79e4	0.619	23.8	0.731
2	2 170418L1_03_P1_...	1.00	5.85	1.38e3	2.04e4	1.16	15.6	0.680
3	3 170418L1_04_P1_...	2.00	5.85	2.55e3	2.27e4	1.92	-4.0	0.562
4	4 170418L1_05_P1_...	5.00	5.83	6.40e3	2.26e4	4.92	-1.5	0.567
5	5 170418L1_06_P1_...	10.0	5.93	1.05e4	1.87e4	10.0	-0.0	0.560
6	6 170418L1_07_P1_...	15.0	5.89	1.67e4	2.12e4	14.4	-3.9	0.524
7	7 170418L1_08_P1_...	20.0	5.87	2.16e4	2.02e4	20.4	2.0	0.537
8	8 170418L1_09_P1_...	25.0	6.00	2.52e4	1.96e4	25.1	0.3	0.513

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.993412$

Calibration curve: $-0.00122474 * x^2 + 0.520395 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	0.500	6.05	6.20e2	1.79e4	0.668	33.5	0.694
2	2 170418L1_03_P1_...	1.00	6.01	1.34e3	2.04e4	1.27	26.5	0.656
3	3 170418L1_04_P1_...	2.00	6.02	2.44e3	2.27e4	2.08	3.9	0.538
4	4 170418L1_05_P1_...	5.00	6.00	5.98e3	2.26e4	5.15	2.9	0.529
5	5 170418L1_06_P1_...	10.0	6.07	9.67e3	1.87e4	10.2	1.9	0.517
6	6 170418L1_07_P1_...	15.0	6.04	1.42e4	2.12e4	13.3	-11.0	0.449
7	7 170418L1_08_P1_...	20.0	6.03	1.95e4	2.02e4	19.5	-2.5	0.484
8	8 170418L1_09_P1_...	25.0	6.14	2.52e4	1.96e4	26.3	5.3	0.514

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: 13C2-PFHxA

Response Factor: 0.742409

RRF SD: 0.0528993, Relative SD: 7.12535

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	10.0	3.90	1.43e4	1.79e4	10.8	7.7	0.800
2	2 170418L1_03_P1_...	10.0	3.81	1.52e4	2.04e4	10.1	0.7	0.748
3	3 170418L1_04_P1_...	10.0	3.85	1.56e4	2.27e4	9.25	-7.5	0.687
4	4 170418L1_05_P1_...	10.0	3.81	1.51e4	2.26e4	9.03	-9.7	0.670
5	5 170418L1_06_P1_...	10.0	3.90	1.34e4	1.87e4	9.66	-3.4	0.717
6	6 170418L1_07_P1_...	10.0	3.85	1.58e4	2.12e4	10.0	0.3	0.744
7	7 170418L1_08_P1_...	10.0	3.85	1.50e4	2.02e4	10.0	0.5	0.746
8	8 170418L1_09_P1_...	10.0	3.95	1.62e4	1.96e4	11.1	11.5	0.827

Compound name: 13C2-PFDA

Response Factor: 0.677567

RRF SD: 0.035469, Relative SD: 5.23476

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	10.0	5.35	1.29e4	1.79e4	10.6	6.1	0.719
2	2 170418L1_03_P1_...	10.0	5.22	1.42e4	2.04e4	10.3	3.2	0.699
3	3 170418L1_04_P1_...	10.0	5.20	1.45e4	2.27e4	9.41	-5.9	0.638
4	4 170418L1_05_P1_...	10.0	5.20	1.41e4	2.26e4	9.20	-8.0	0.623
5	5 170418L1_06_P1_...	10.0	5.34	1.29e4	1.87e4	10.2	1.9	0.691
6	6 170418L1_07_P1_...	10.0	5.30	1.50e4	2.12e4	10.5	4.6	0.709
7	7 170418L1_08_P1_...	10.0	5.27	1.31e4	2.02e4	9.60	-4.0	0.650
8	8 170418L1_09_P1_...	10.0	5.43	1.36e4	1.96e4	10.2	2.1	0.692

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: d5-N-EtFOSAA

Response Factor: 0.846468

RRF SD: 0.0851817, Relative SD: 10.0632

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	40.0	5.56	1.92e4	1.96e4	46.4	15.9	0.981
2	2 170418L1_03_P1_...	40.0	5.44	1.77e4	2.32e4	36.1	-9.8	0.764
3	3 170418L1_04_P1_...	40.0	5.43	2.22e4	2.54e4	41.3	3.1	0.873
4	4 170418L1_05_P1_...	40.0	5.43	1.89e4	2.47e4	36.0	-9.9	0.762
5	5 170418L1_06_P1_...	40.0	5.55	1.54e4	2.05e4	35.5	-11.2	0.752
6	6 170418L1_07_P1_...	40.0	5.51	1.90e4	2.07e4	43.4	8.6	0.919
7	7 170418L1_08_P1_...	40.0	5.49	1.90e4	2.11e4	42.6	6.5	0.901
8	8 170418L1_09_P1_...	40.0	5.65	1.77e4	2.16e4	38.7	-3.2	0.819

Compound name: 13C2-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	10.0	4.78	1.79e4	1.79e4	10.0	0.0	1.00
2	2 170418L1_03_P1_...	10.0	4.65	2.04e4	2.04e4	10.0	0.0	1.00
3	3 170418L1_04_P1_...	10.0	4.64	2.27e4	2.27e4	10.0	0.0	1.00
4	4 170418L1_05_P1_...	10.0	4.64	2.26e4	2.26e4	10.0	0.0	1.00
5	5 170418L1_06_P1_...	10.0	4.76	1.87e4	1.87e4	10.0	0.0	1.00
6	6 170418L1_07_P1_...	10.0	4.72	2.12e4	2.12e4	10.0	0.0	1.00
7	7 170418L1_08_P1_...	10.0	4.69	2.02e4	2.02e4	10.0	0.0	1.00
8	8 170418L1_09_P1_...	10.0	4.85	1.96e4	1.96e4	10.0	0.0	1.00

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:49 Pacific Daylight Time

Compound name: 13C4-PFOS

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.	%Dev	RRF
1	1 170418L1_02_P1_...	28.7	5.14	1.41e4	1.41e4	28.7	0.0	1.00
2	2 170418L1_03_P1_...	28.7	5.01	1.49e4	1.49e4	28.7	0.0	1.00
3	3 170418L1_04_P1_...	28.7	4.99	1.55e4	1.55e4	28.7	0.0	1.00
4	4 170418L1_05_P1_...	28.7	5.00	1.54e4	1.54e4	28.7	0.0	1.00
5	5 170418L1_06_P1_...	28.7	5.13	1.27e4	1.27e4	28.7	0.0	1.00
6	6 170418L1_07_P1_...	28.7	5.08	1.41e4	1.41e4	28.7	0.0	1.00
7	7 170418L1_08_P1_...	28.7	5.05	1.40e4	1.40e4	28.7	0.0	1.00
8	8 170418L1_09_P1_...	28.7	5.22	1.65e4	1.65e4	28.7	0.0	1.00

Compound name: d3-N-MeFOSAA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

	# Name	Std. Conc.	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170418L1_02_P1_...	40.0	5.45	1.96e4	1.96e4	40.0	0.0	1.00
2	2 170418L1_03_P1_...	40.0	5.33	2.32e4	2.32e4	40.0	0.0	1.00
3	3 170418L1_04_P1_...	40.0	5.32	2.54e4	2.54e4	40.0	0.0	1.00
4	4 170418L1_05_P1_...	40.0	5.32	2.47e4	2.47e4	40.0	0.0	1.00
5	5 170418L1_06_P1_...	40.0	5.45	2.05e4	2.05e4	40.0	0.0	1.00
6	6 170418L1_07_P1_...	40.0	5.41	2.07e4	2.07e4	40.0	0.0	1.00
7	7 170418L1_08_P1_...	40.0	5.38	2.11e4	2.11e4	40.0	0.0	1.00
8	8 170418L1_09_P1_...	40.0	5.54	2.16e4	2.16e4	40.0	0.0	1.00

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:01:29 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:01:47 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: 19 Apr 2017 10:01:29

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170418L1_01_P...	IPA	18-Apr-17	16:48:03
2	170418L1_02_P...	ST170418L1-1 537 DW CS(-3) 17D1811	18-Apr-17	17:00:18
3	170418L1_03_P...	ST170418L1-2 537 DW CS(-2) 17D1812	18-Apr-17	17:12:33
4	170418L1_04_P...	ST170418L1-3 537 DW CS(-1) 17D1813	18-Apr-17	17:24:47
5	170418L1_05_P...	ST170418L1-4 537 DW CS0 17D1814	18-Apr-17	17:36:59
6	170418L1_06_P...	ST170418L1-5 537 DW CS1 17D1815	18-Apr-17	17:49:11
7	170418L1_07_P...	ST170418L1-6 537 DW CS1.2 17D1816	18-Apr-17	18:01:27
8	170418L1_08_P...	ST170418L1-7 537 DW CS1.3 17D1817	18-Apr-17	18:13:38
9	170418L1_09_P...	ST170418L1-8 537 DW CS1.5 17D1818	18-Apr-17	18:25:53
10	170418L1_10_P...	IPA	18-Apr-17	18:38:05
11	170418L1_11_P...	SS170418L1-1 537 DW SSS 17D1821	18-Apr-17	18:50:21
12	170418L1_12_P...	IPA	18-Apr-17	19:02:32
13	170418L1_13_P...	B7D0085-BLK1	18-Apr-17	19:14:49
14	170418L1_14_P...	B7D0086-BLK1	18-Apr-17	19:27:05
15	170418L1_15_P...	B7D0085-BS1	18-Apr-17	19:39:17
16	170418L1_16_P...	B7D0085-BS2	18-Apr-17	19:51:35
17	170418L1_17_P...	B7D0085-BS3	18-Apr-17	20:03:51
18	170418L1_18_P...	B7D0085-BS4	18-Apr-17	20:16:08
19	170418L1_19_P...	B7D0085-BS5	18-Apr-17	20:28:23
20	170418L1_20_P...	B7D0085-BS6	18-Apr-17	20:40:35
21	170418L1_21_P...	B7D0085-BS7	18-Apr-17	20:52:51
22	170418L1_22_P...	B7D0086-BS1	18-Apr-17	21:05:03
23	170418L1_23_P...	B7D0086-BS2	18-Apr-17	21:17:18
24	170418L1_24_P...	B7D0086-BS3	18-Apr-17	21:29:29
25	170418L1_25_P...	B7D0086-BS4	18-Apr-17	21:41:45
26	170418L1_26_P...	IPA	18-Apr-17	21:54:01
27	170418L1_27_P...	B7D0039-BS1	18-Apr-17	22:06:16
28	170418L1_28_P...	B7D0087-BS1	18-Apr-17	22:18:31
29	170418L1_29_P...	B7D0039-BLK1	18-Apr-17	22:30:46
30	170418L1_30_P...	B7D0087-BLK1	18-Apr-17	22:43:00
31	170418L1_31_P...	1700395-01	18-Apr-17	22:55:15
32	170418L1_32_P...	B7D0039-MS1	18-Apr-17	23:07:31

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 10:01:29 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:01:47 Pacific Daylight Time

Compound name: PFBS

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34	170418L1_34_P...	B7D0039-DUP1	18-Apr-17	23:32:01
35	170418L1_35_P...	1700395-03	18-Apr-17	23:44:17
36	170418L1_36_P...	1700395-04	18-Apr-17	23:56:31
37	170418L1_37_P...	1700430RE1-01	19-Apr-17	00:08:46
38	170418L1_38_P...	1700430RE1-02	19-Apr-17	00:21:01
39	170418L1_39_P...	1700430RE1-03	19-Apr-17	00:33:15
40	170418L1_40_P...	1700430RE1-04	19-Apr-17	00:45:31
41	170418L1_41_P...	IPA	19-Apr-17	00:57:41
42	170418L1_42_P...	ST170418L1-9 537 DW CS1 17D1815	19-Apr-17	01:09:58
43	170418L1_43_P...	IPA	19-Apr-17	01:22:13

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

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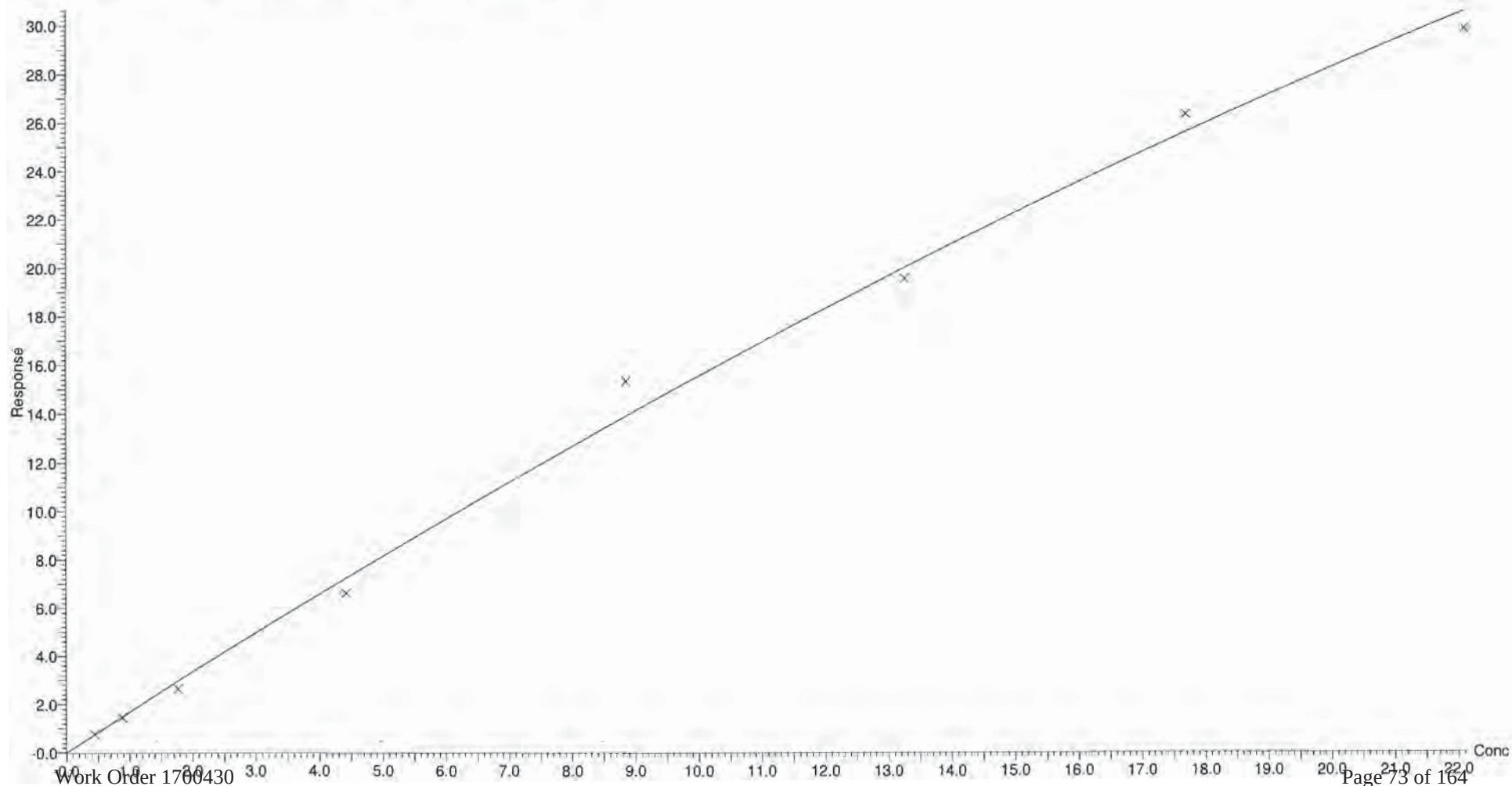
Calibration: U:\Q2.PRO\CurveDB\4-18-17-DW.cdb 19 Apr 2017 09:10:24

Compound name: PFBS

Coefficient of Determination: $R^2 = 0.996205$ Calibration curve: $-0.0141699 * x^2 + 1.7001 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

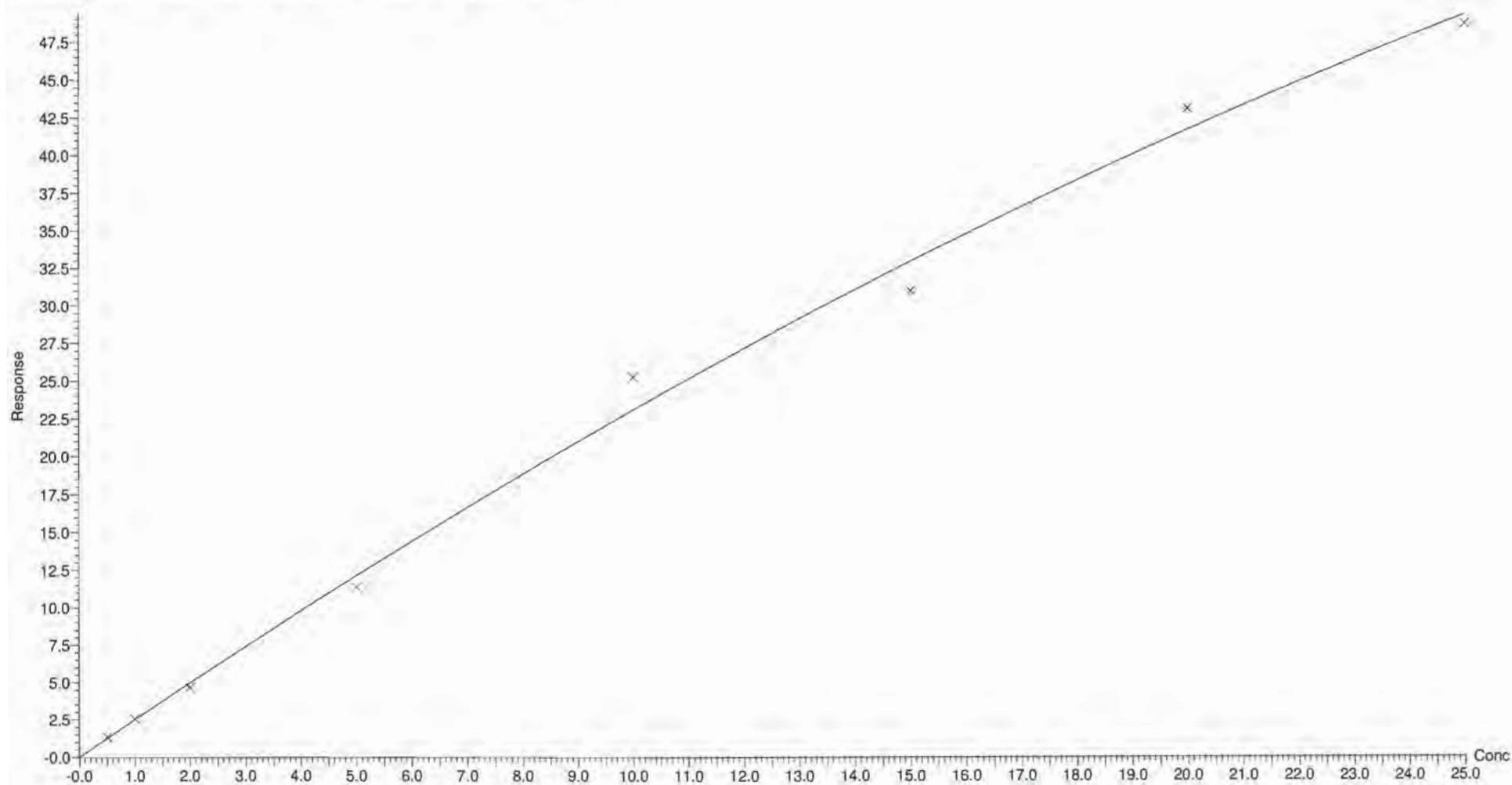
Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

Compound name: PFHxA

Coefficient of Determination: $R^2 = 0.996281$ Calibration curve: $-0.0224442 * x^2 + 2.53689 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

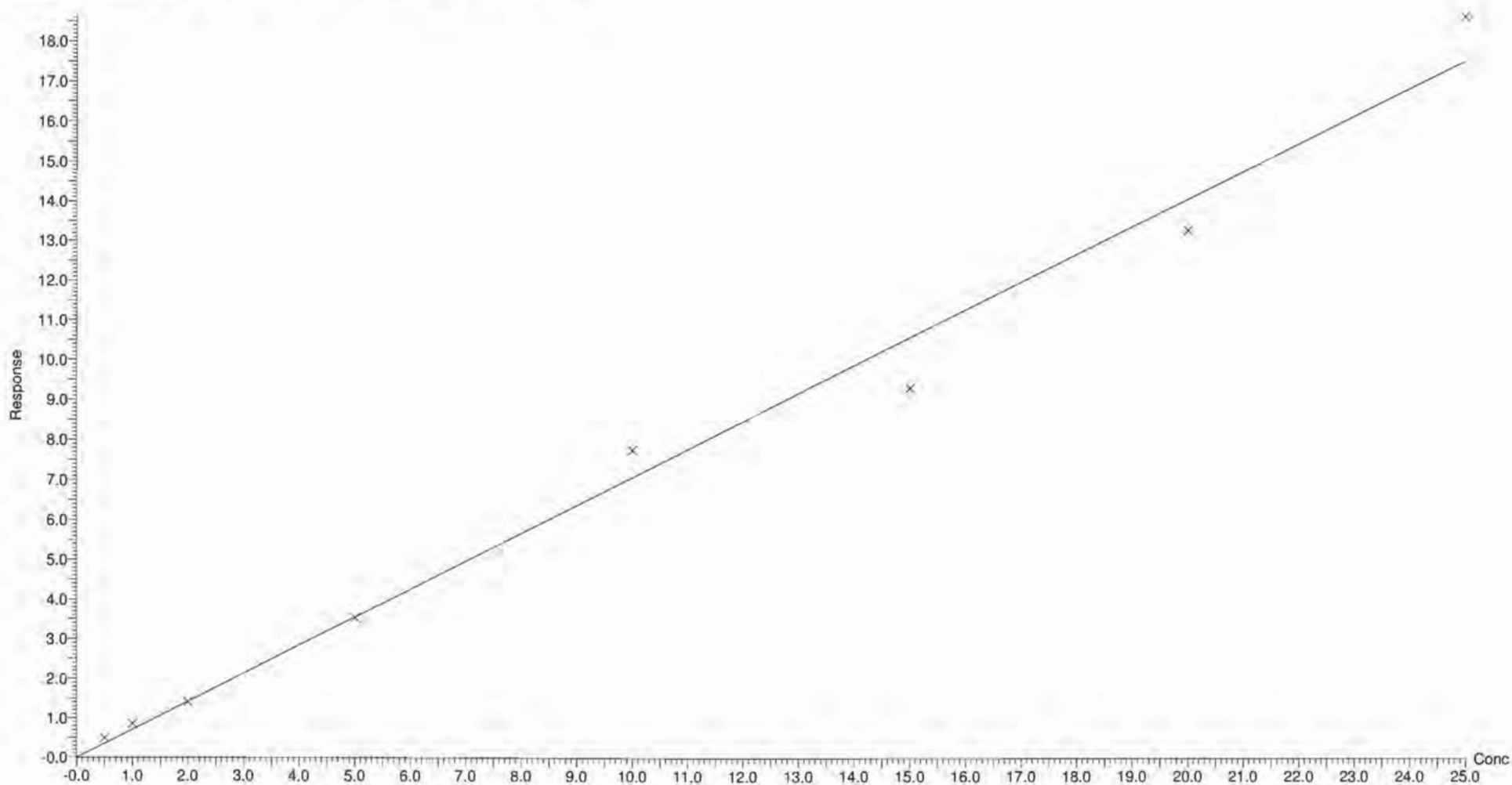
Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.990109$ Calibration curve: $-0.000318798 * x^2 + 0.711202 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

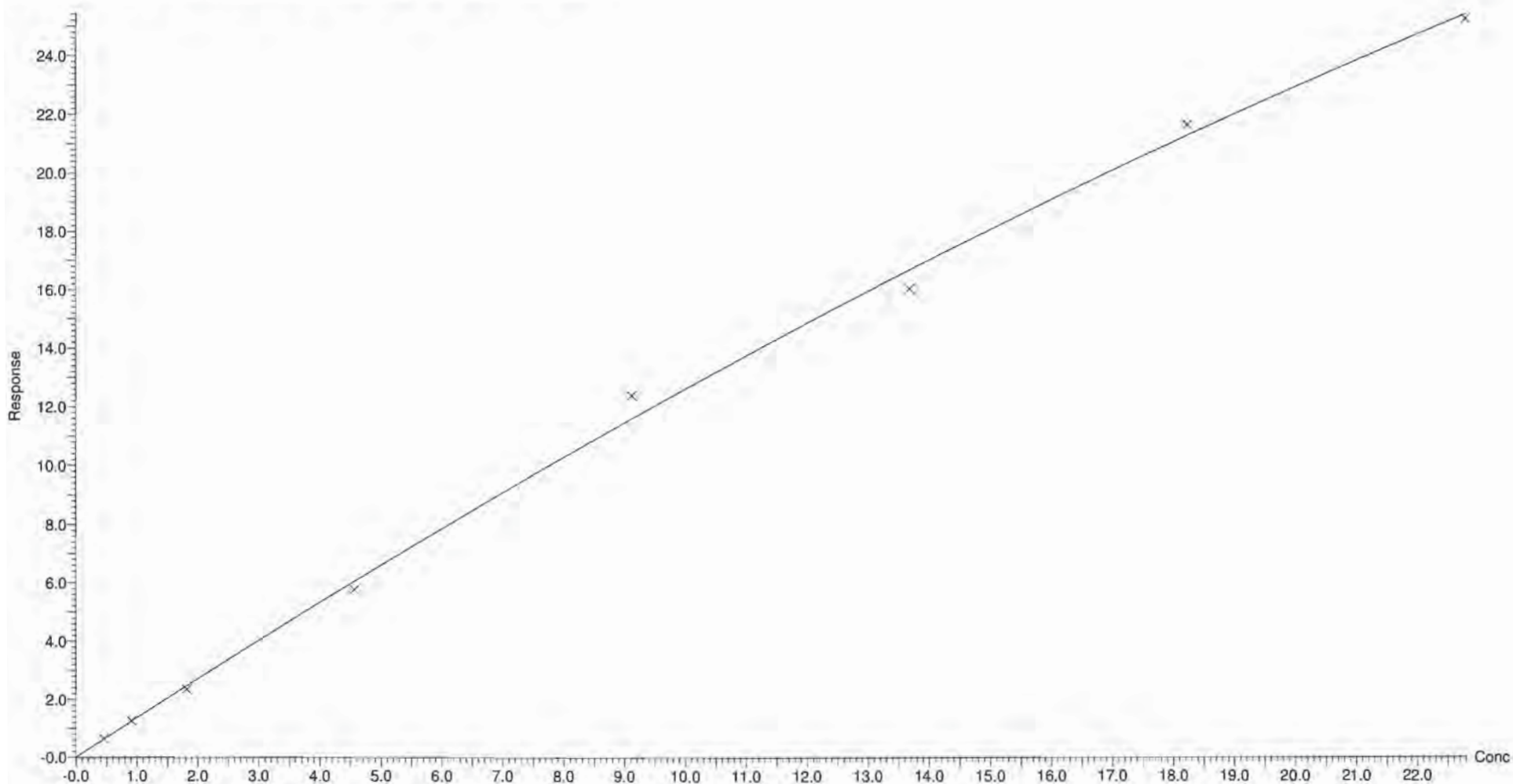
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Compound name: PFHxS

Coefficient of Determination: $R^2 = 0.998274$ Calibration curve: $-0.0114883 * x^2 + 1.37834 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

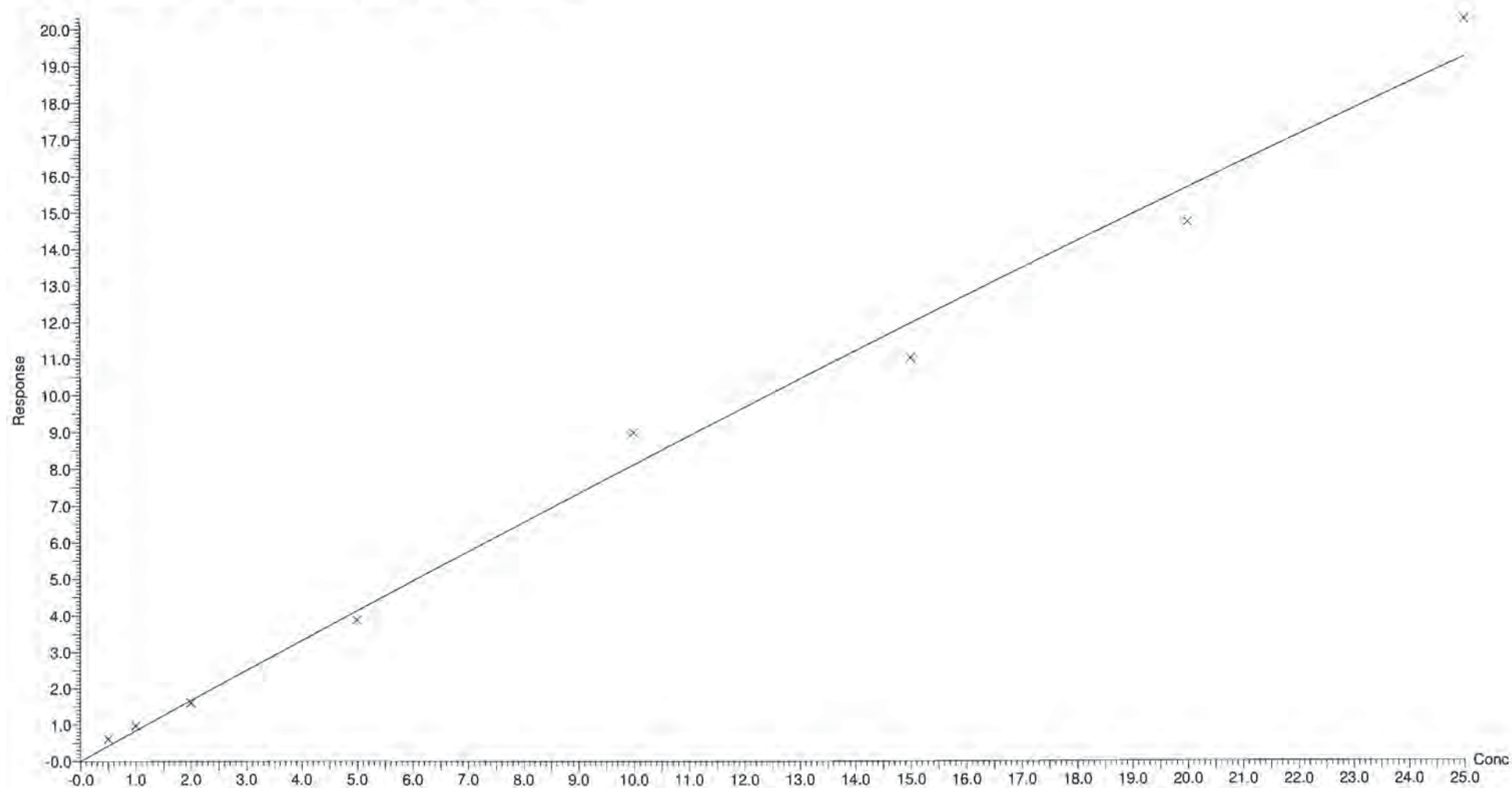
Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

Compound name: PFOA

Coefficient of Determination: $R^2 = 0.991438$ Calibration curve: $-0.00277048 * x^2 + 0.840755 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

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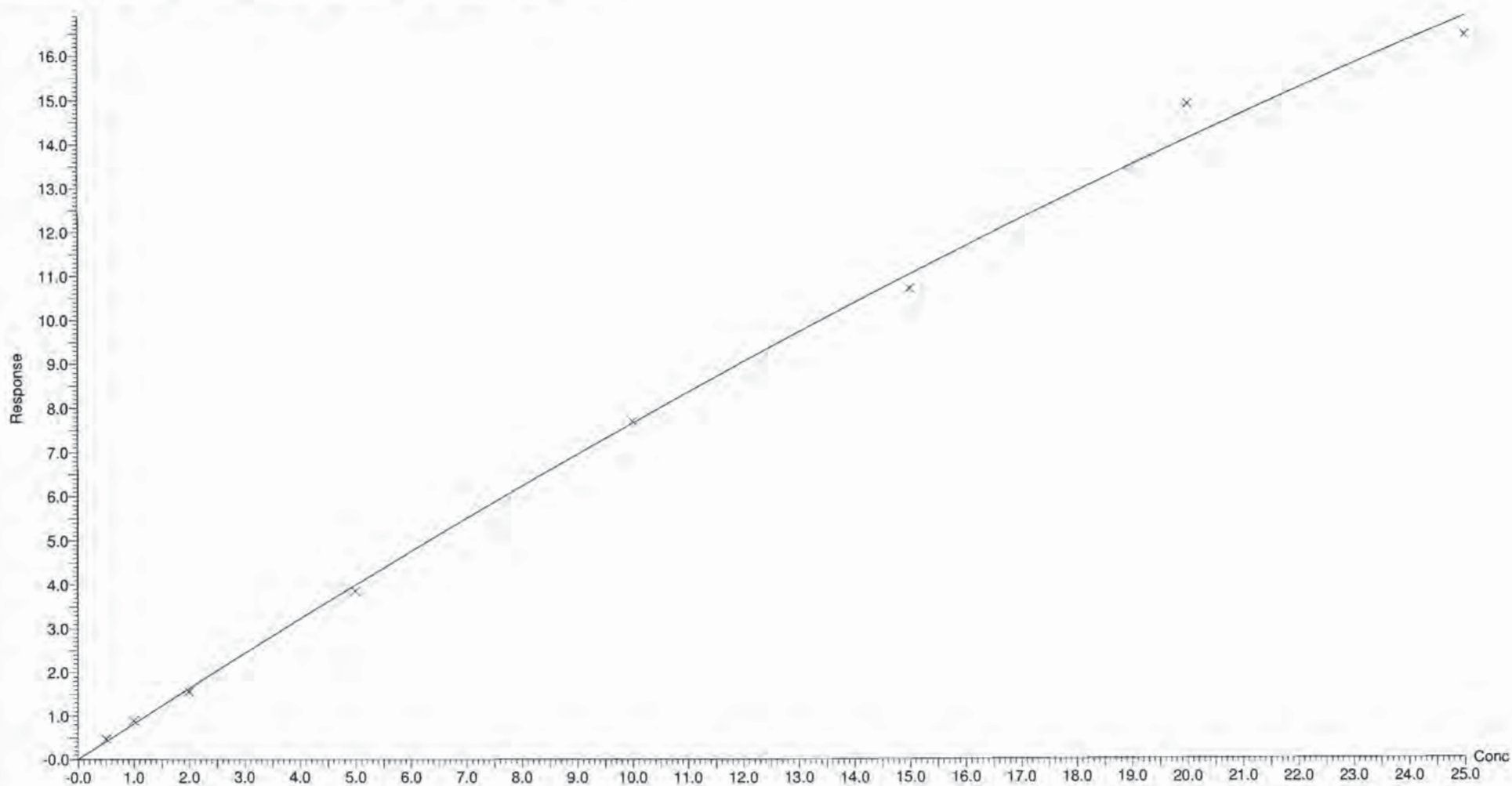
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Compound name: PFNA

Coefficient of Determination: $R^2 = 0.997987$ Calibration curve: $-0.00601034 * x^2 + 0.826696 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

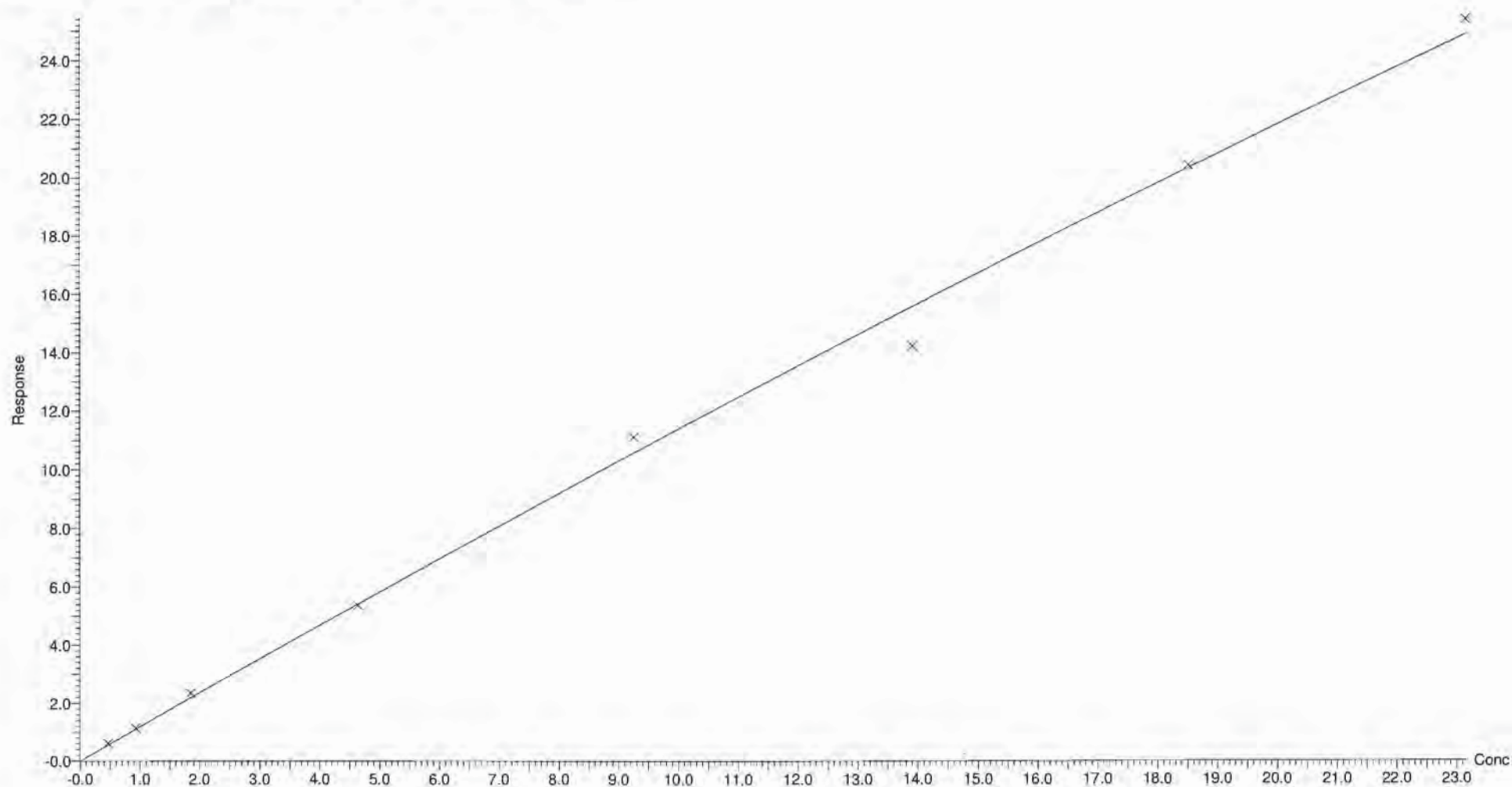
Compound name: PFOS

Coefficient of Determination: $R^2 = 0.997161$

Calibration curve: $-0.00479285 * x^2 + 1.1881 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

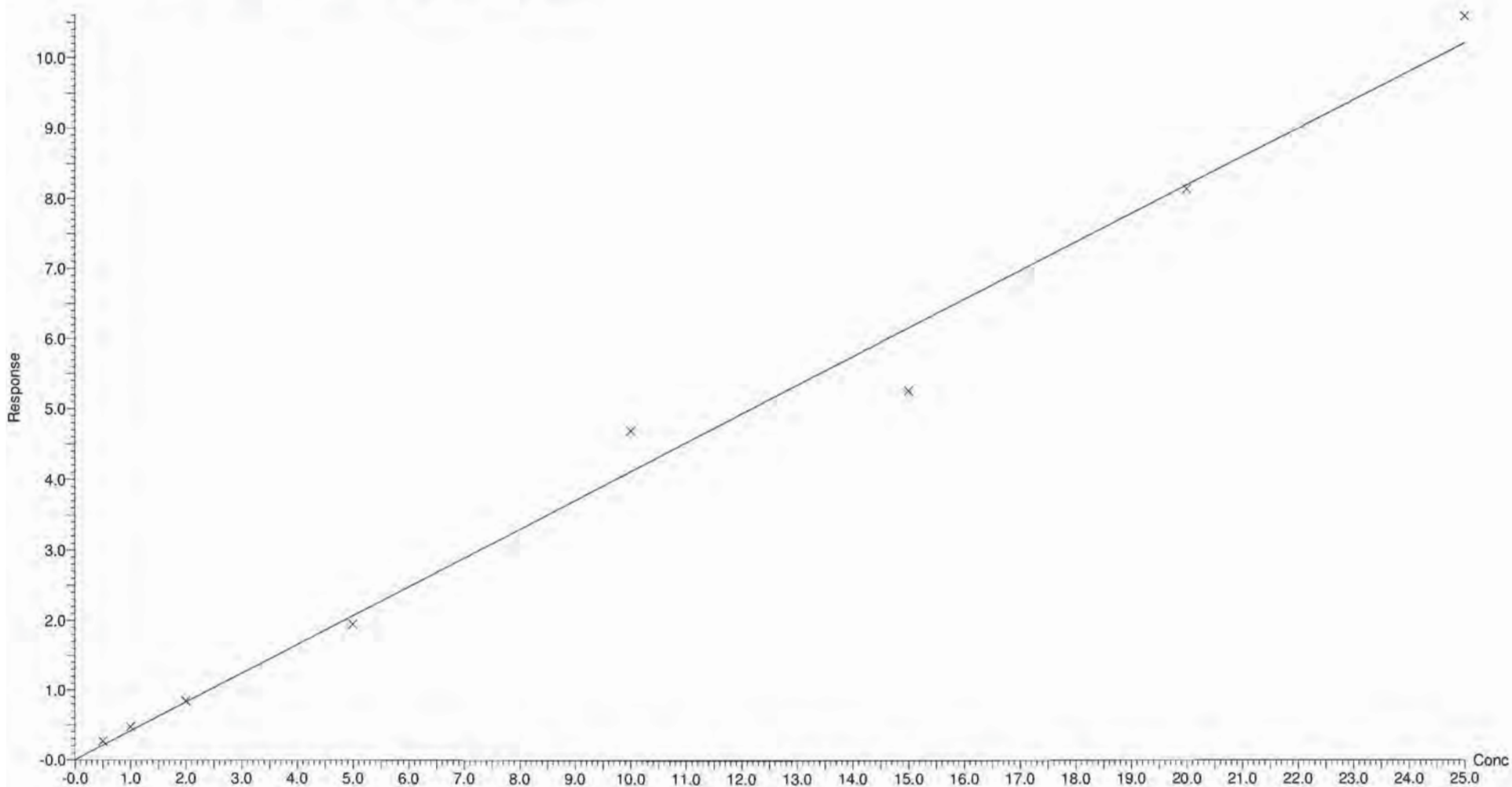
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.989727$

Calibration curve: $-0.000194499 * x^2 + 0.414245 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

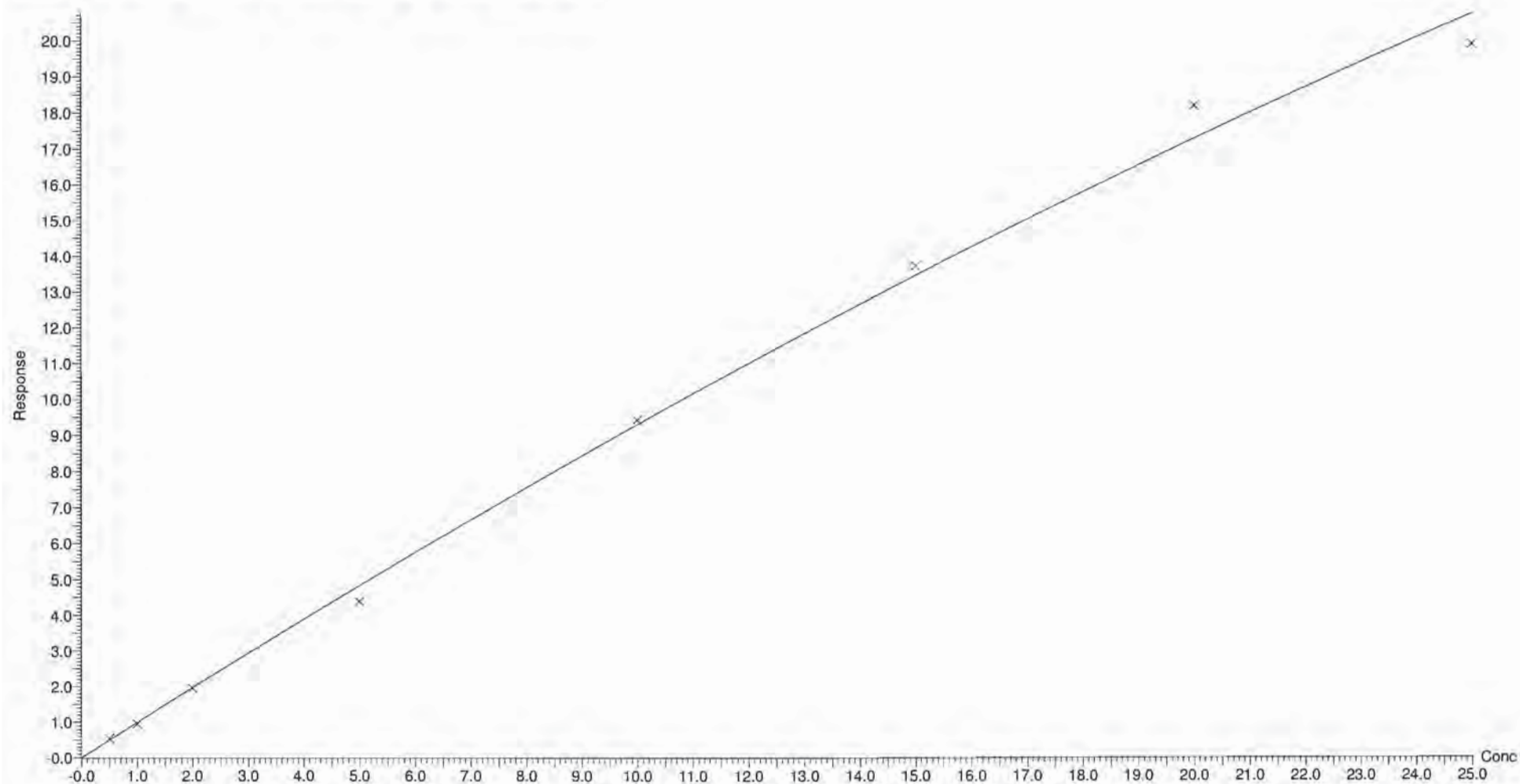
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.997375$

Calibration curve: $-0.0066758 * x^2 + 0.998582 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

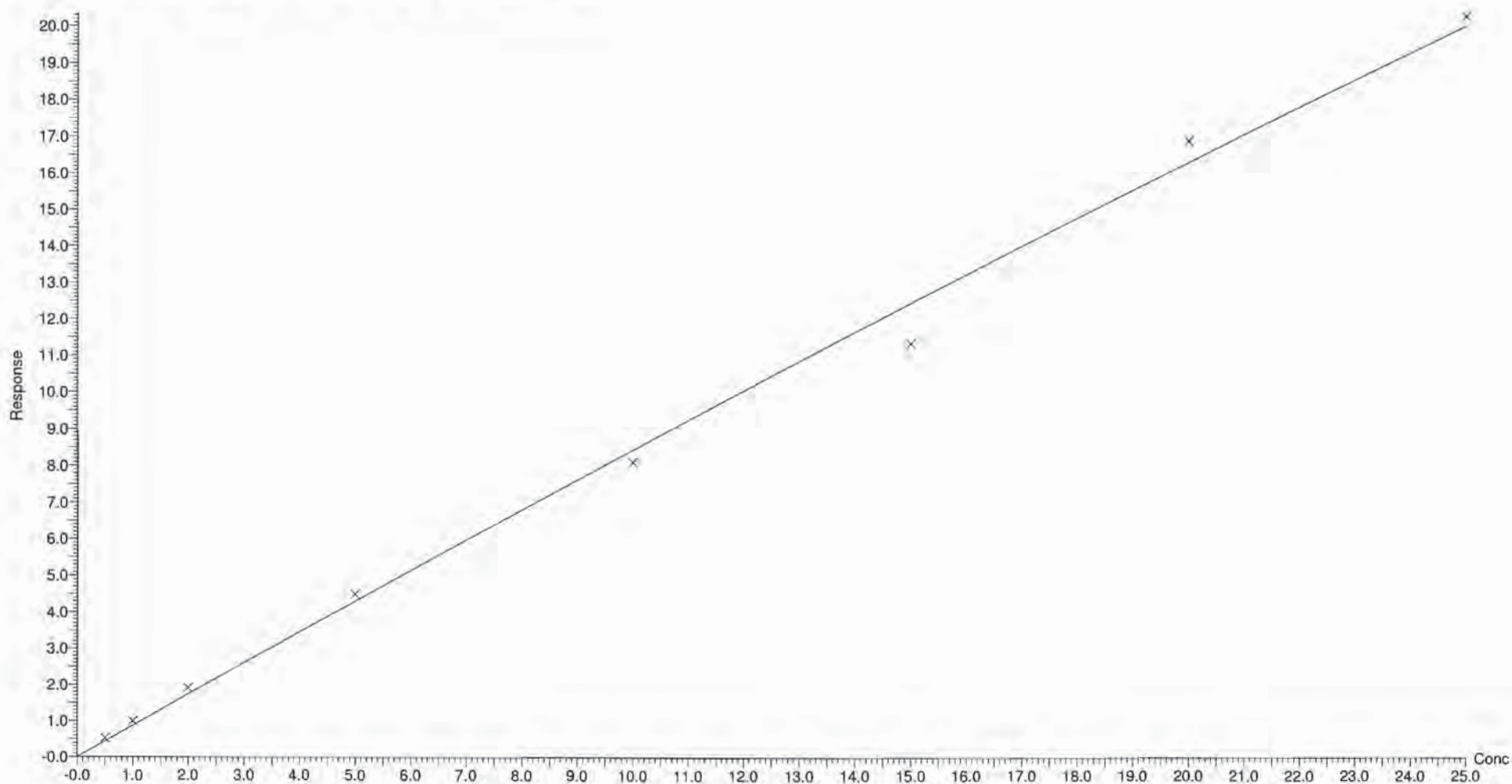
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.995919$

Calibration curve: $-0.0027634 * x^2 + 0.8721 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

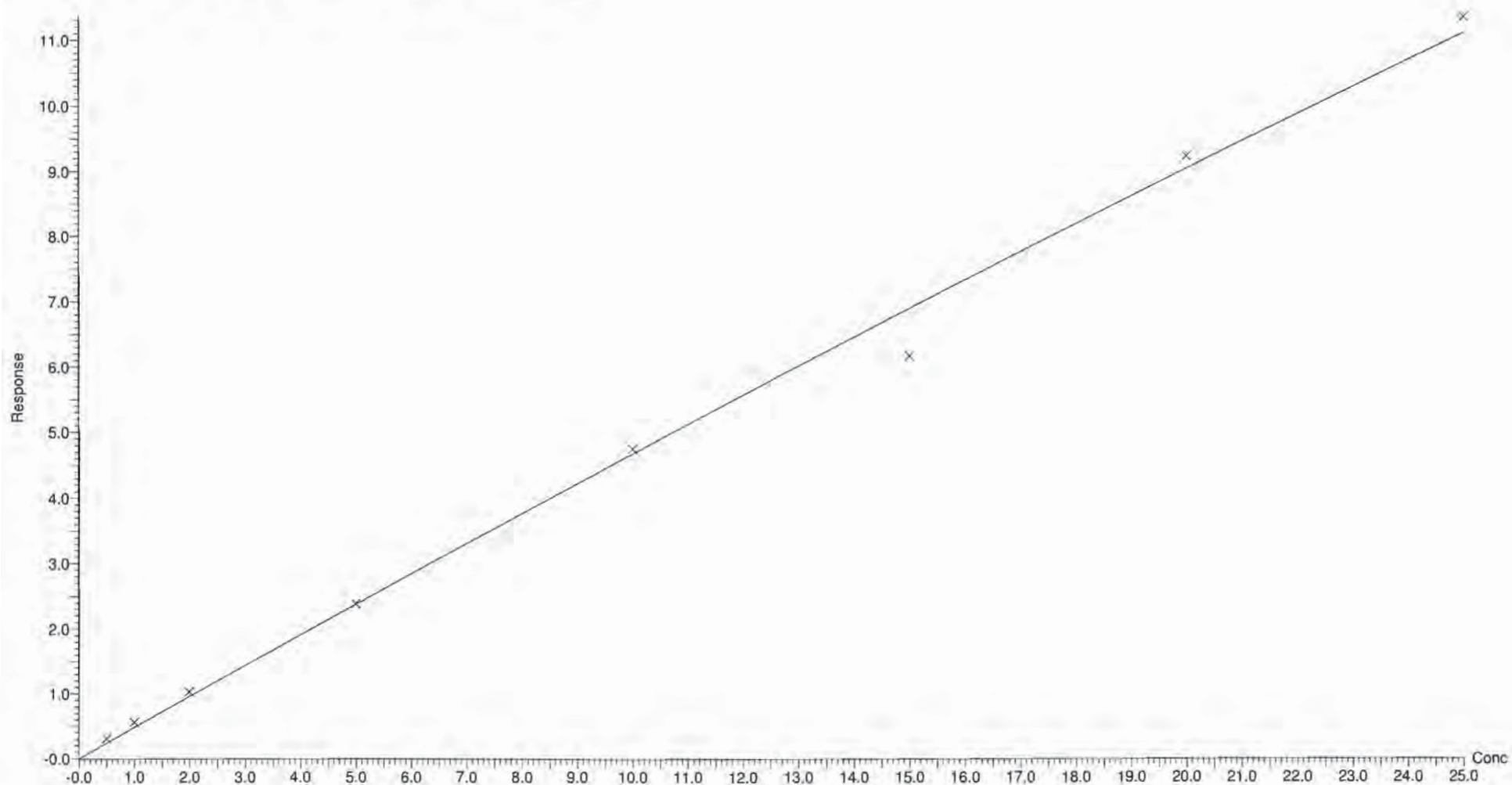
Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.995481$

Calibration curve: $-0.00150718 * x^2 + 0.483025 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

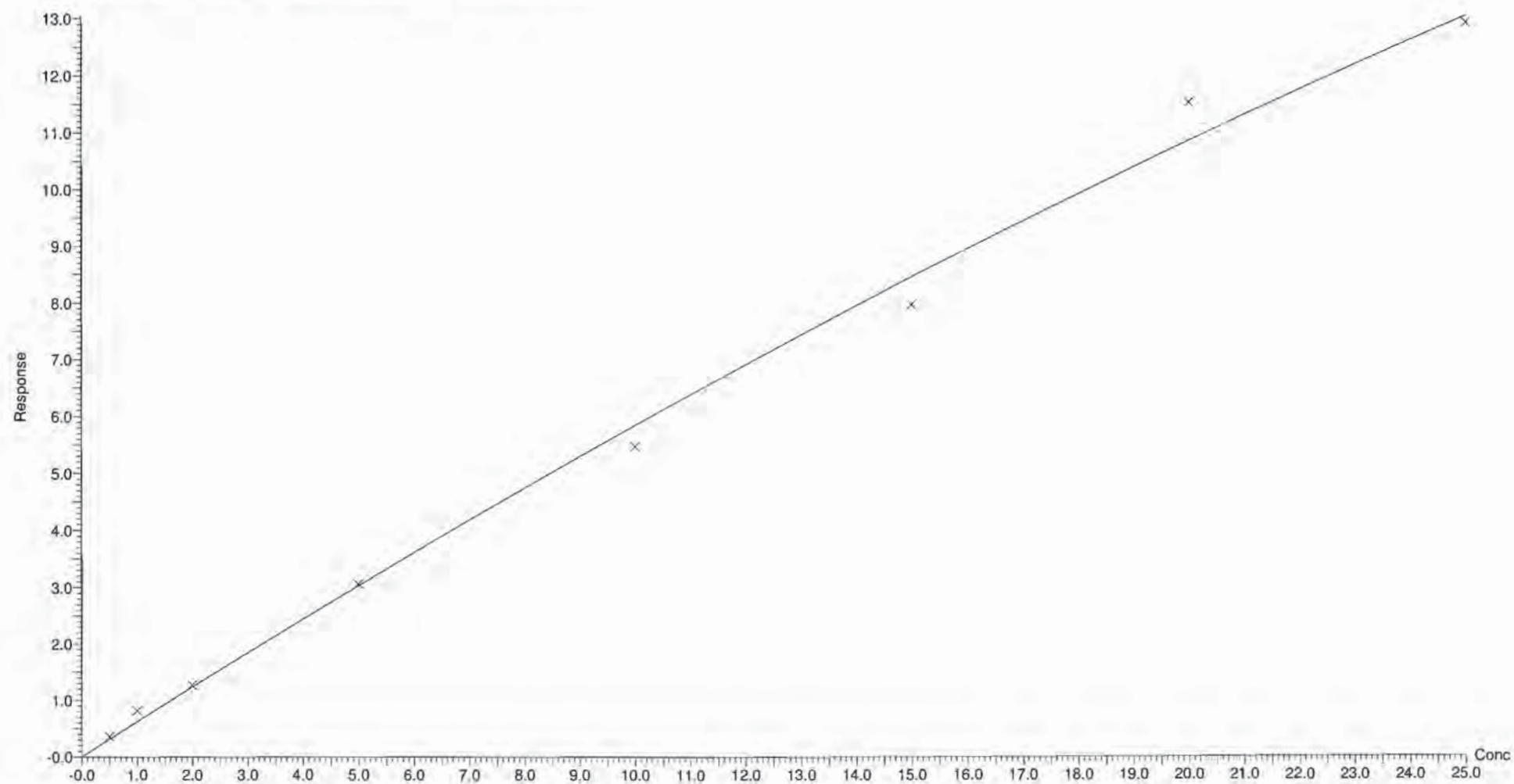
Compound name: PFDaA

Coefficient of Determination: $R^2 = 0.994775$

Calibration curve: $-0.00416026 * x^2 + 0.626194 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.998428$ Calibration curve: $-0.00320651 \cdot x^2 + 0.591825 \cdot x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:00:11 Pacific Daylight Time

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.993412$

Calibration curve: $-0.00122474 * x^2 + 0.520395 * x$

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

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

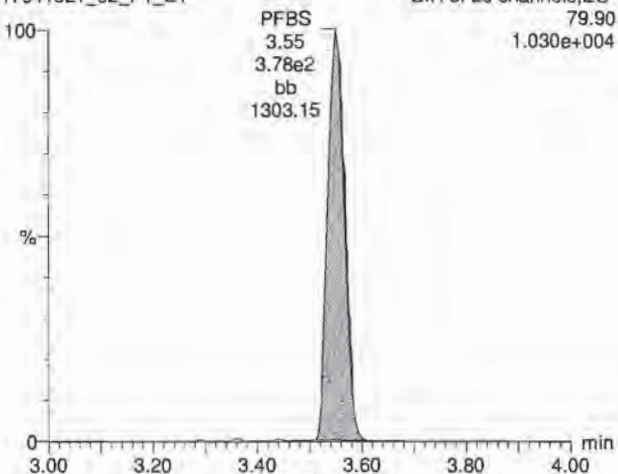
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Lab: ©PE-SCIEX, User: sciex

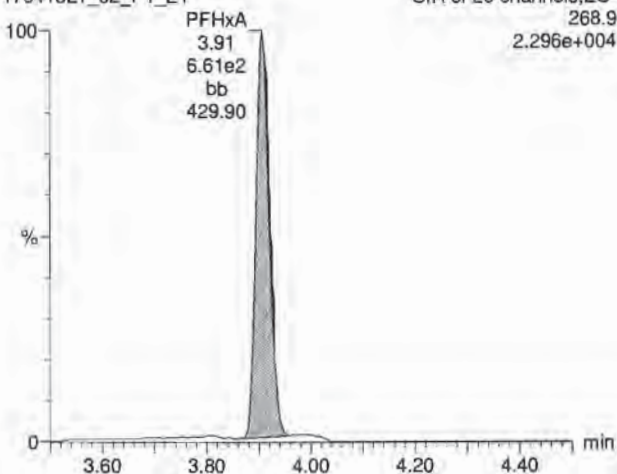
PFBS

170418L1_02_P1_E1



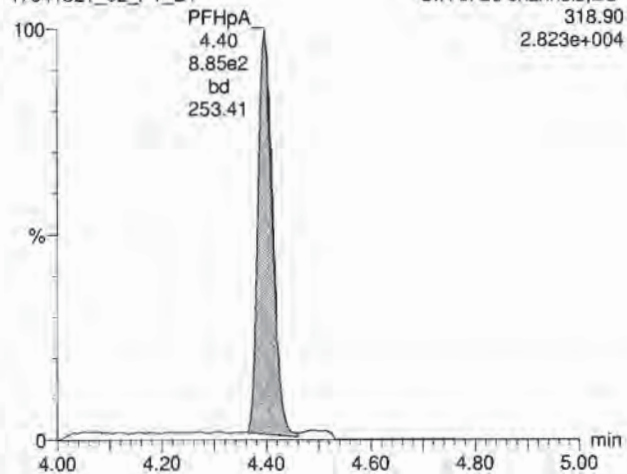
PFHxA

170418L1_02_P1_E1



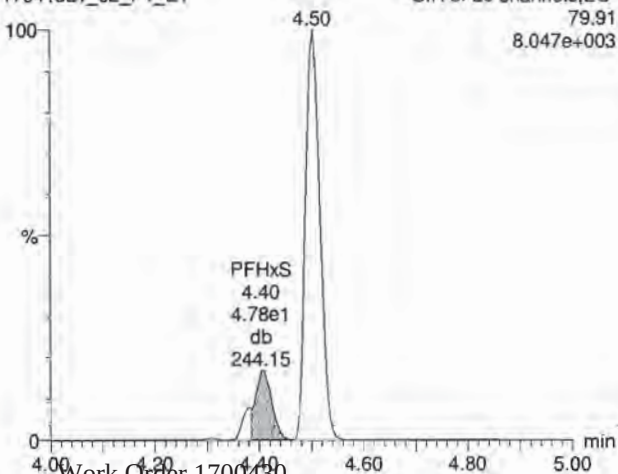
PFHpA

170418L1_02_P1_E1



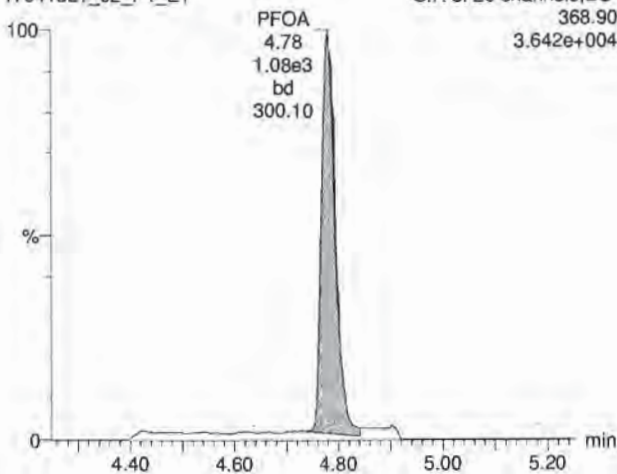
PFHxS

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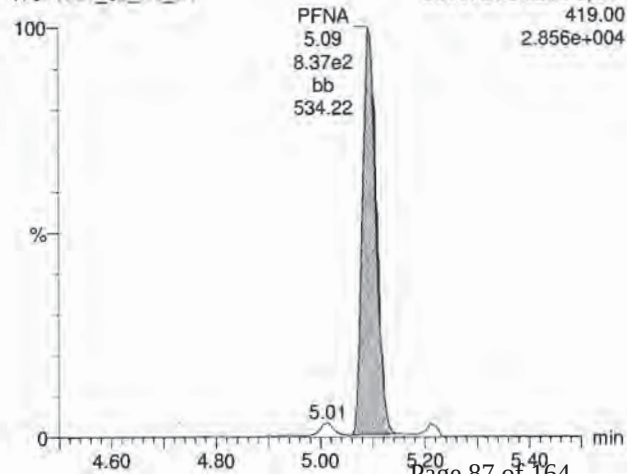
PFOA

170418L1_02_P1_E1



PFNA

170418L1_02_P1_E1



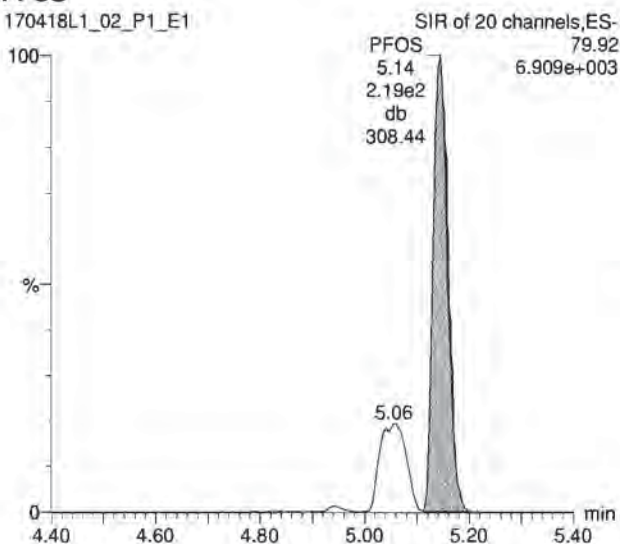
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Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

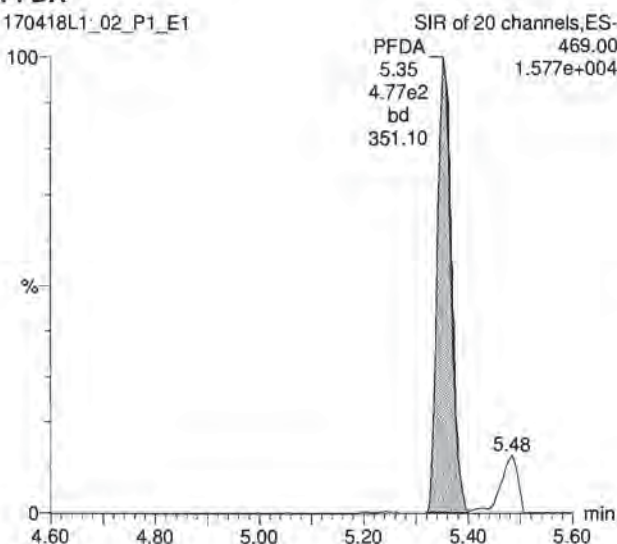
PFOS

170418L1_02_P1_E1



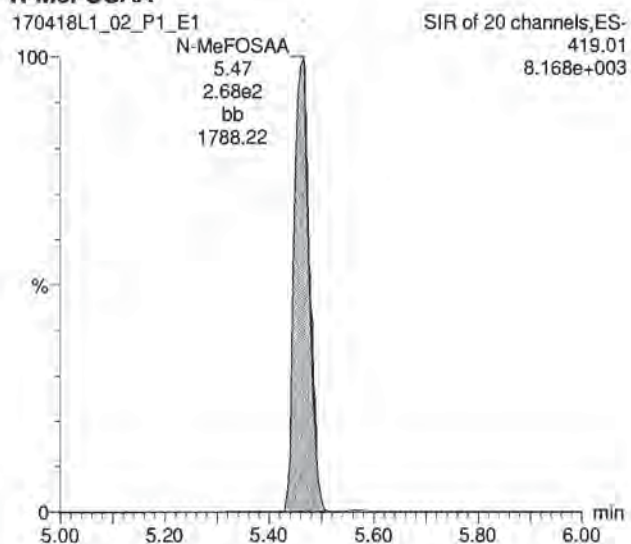
PFDA

170418L1_02_P1_E1



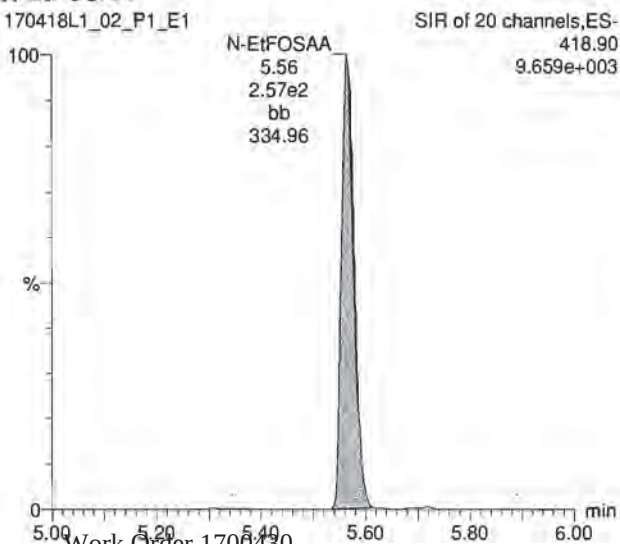
N-MeFOSAA

170418L1_02_P1_E1



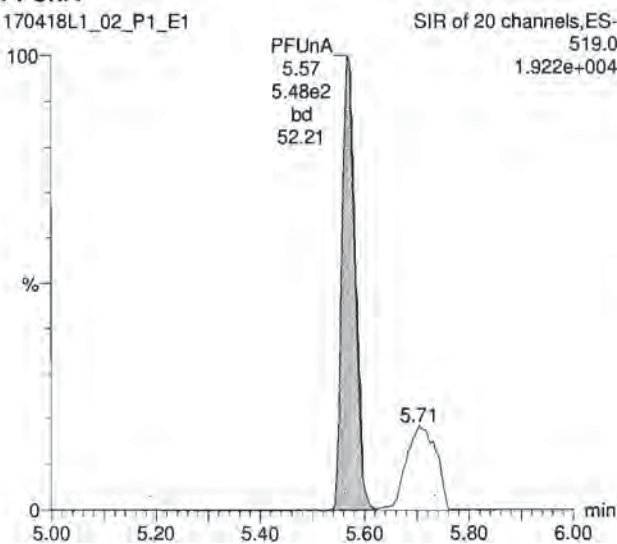
N-EtFOSAA

170418L1_02_P1_E1



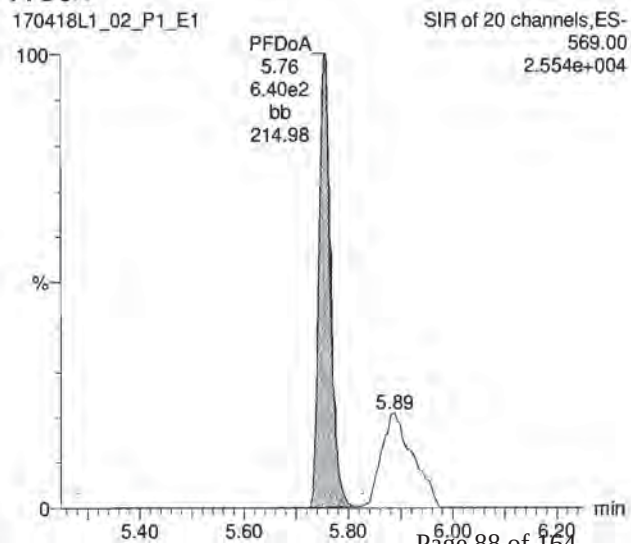
PFUnA

170418L1_02_P1_E1



PFDaA

170418L1_02_P1_E1



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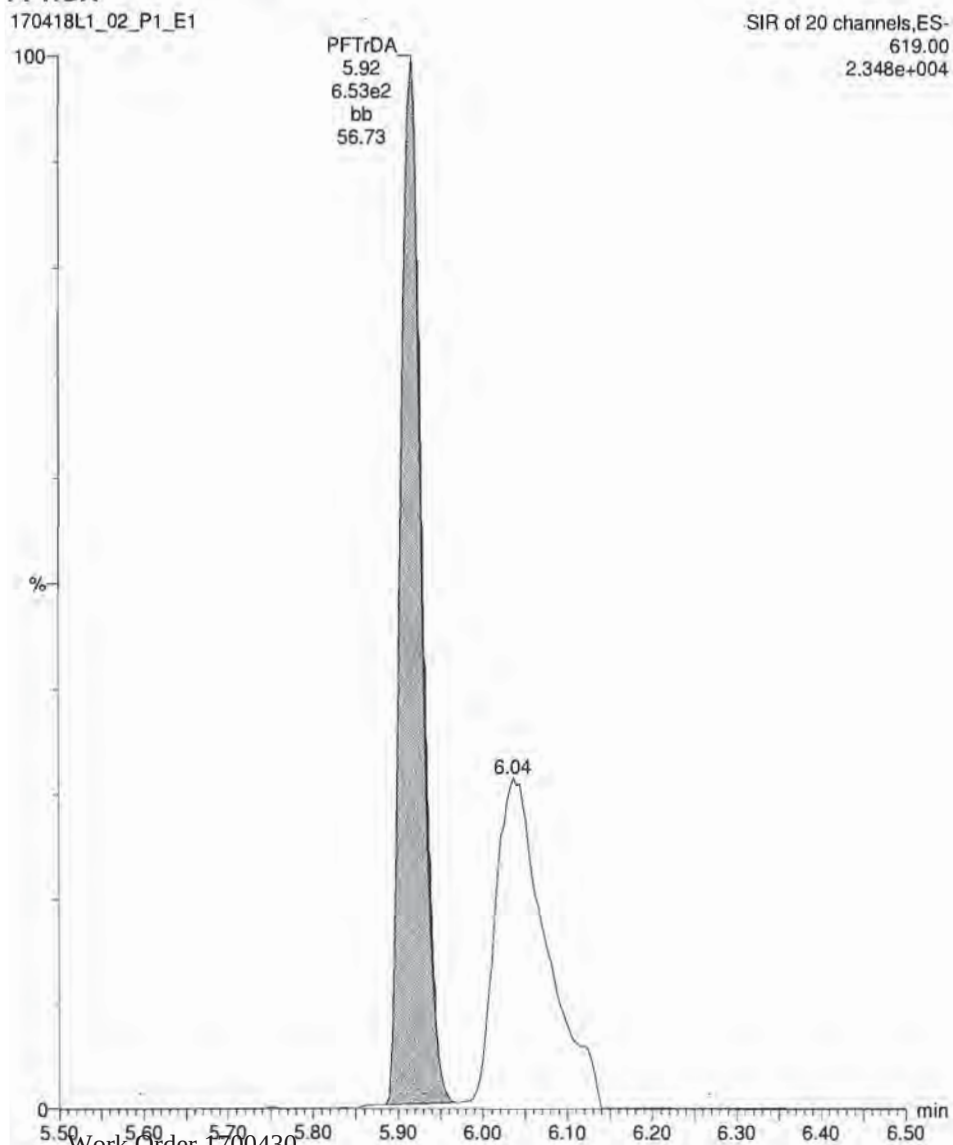
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

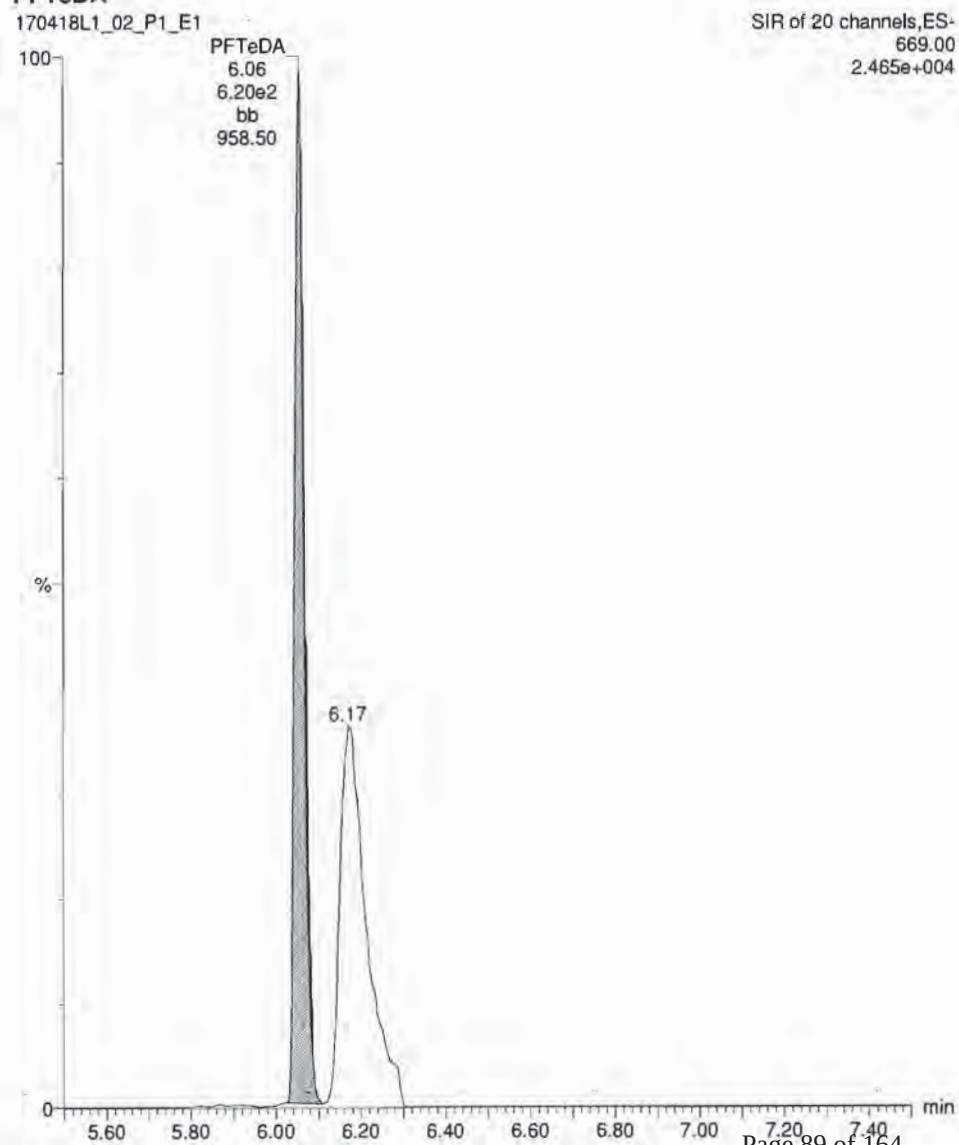
PFTrDA

170418L1_02_P1_E1



PFTeDA

170418L1_02_P1_E1



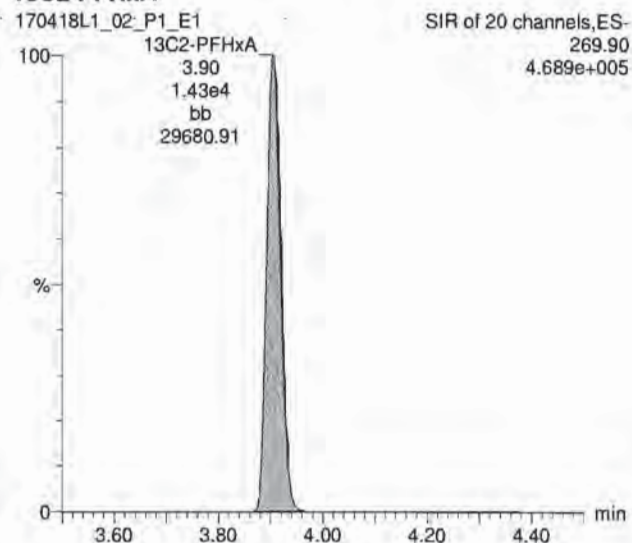
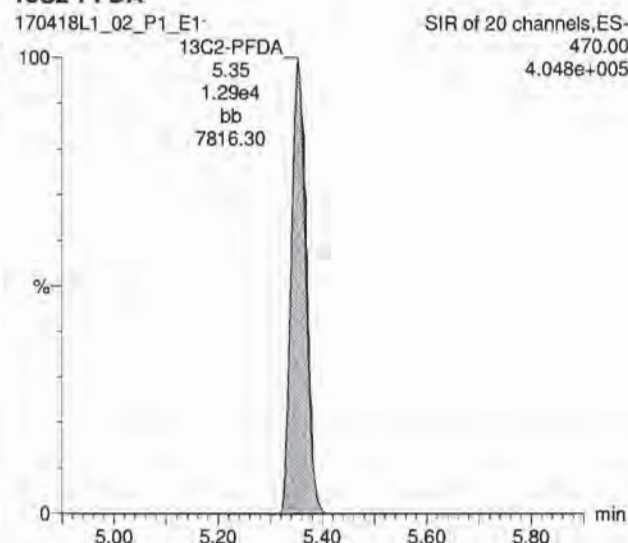
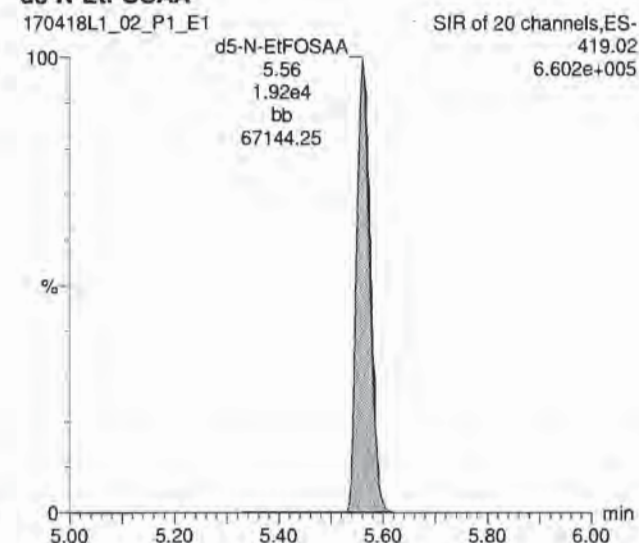
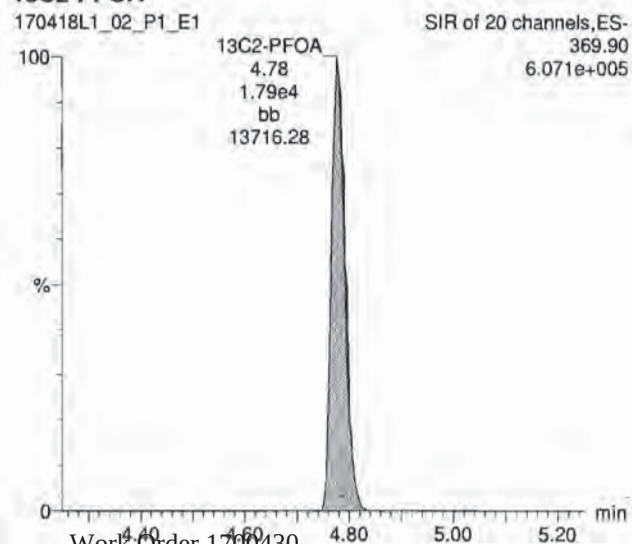
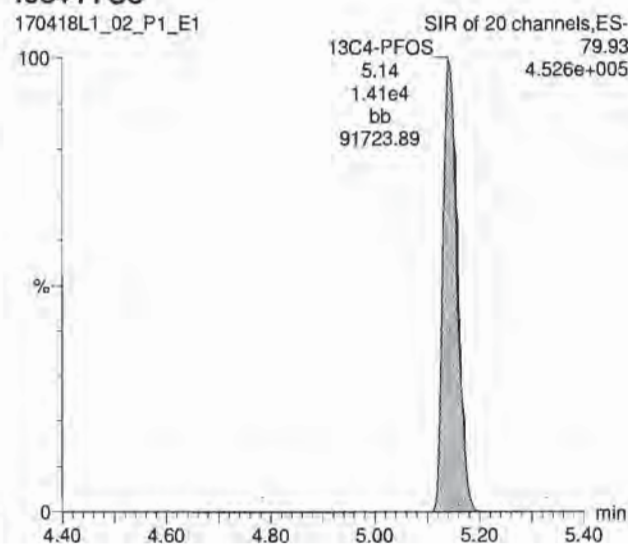
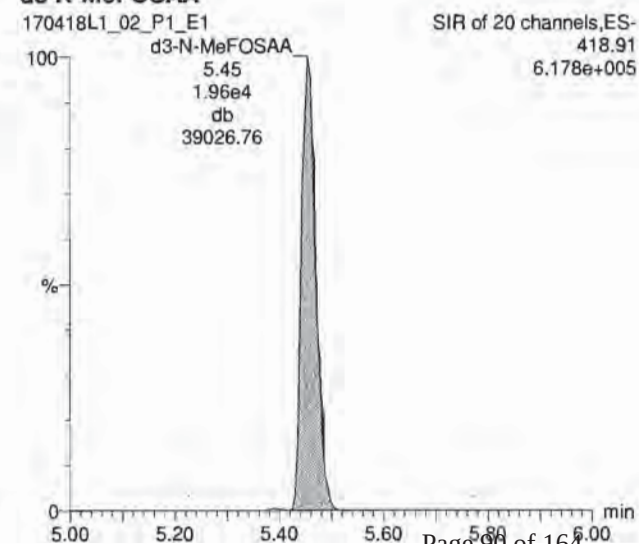
Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA**13C2-PFDA****d5-N-EtFOSAA****13C2-PFOA****13C4-PFOS****d3-N-MeFOSAA**

Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time

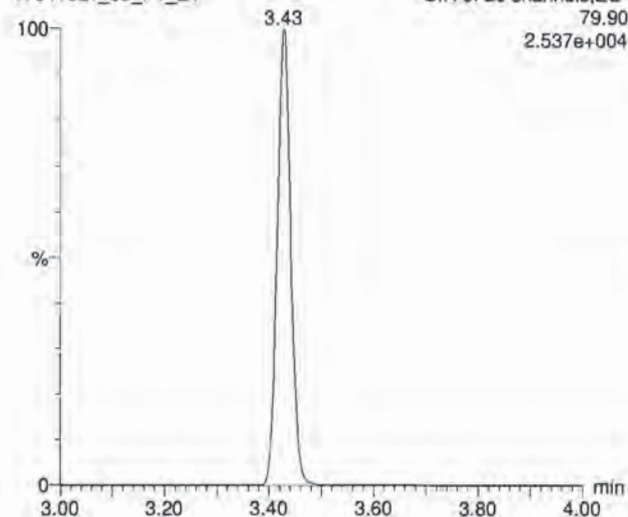
Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

PFBS

170418L1_03_P1_E1

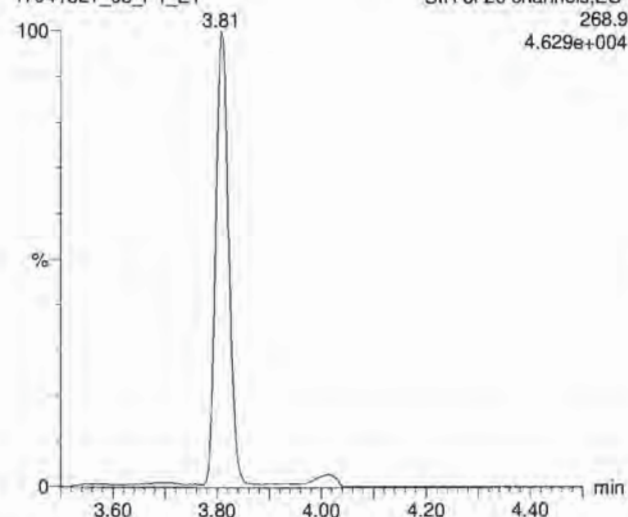
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79.90
2.537e+004



PFHxA

170418L1_03_P1_E1

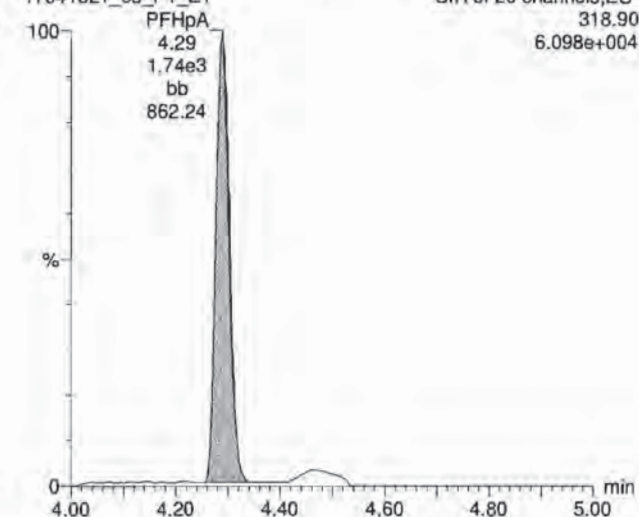
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268.9
4.629e+004



PFHpA

170418L1_03_P1_E1

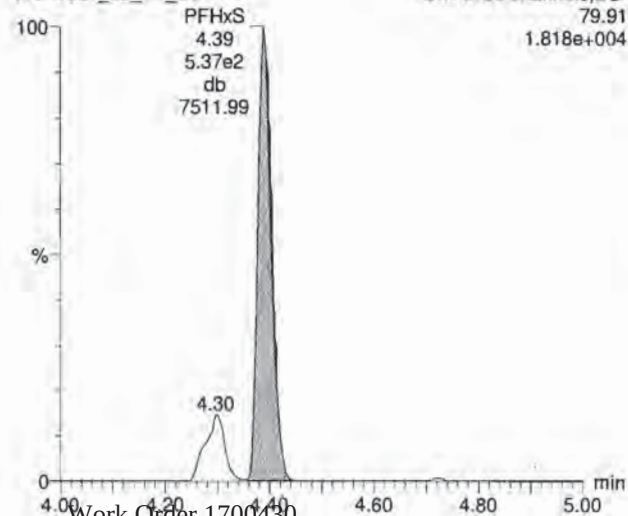
SIR of 20 channels,ES-
318.90
6.098e+004



PFHxS

170418L1_03_P1_E1

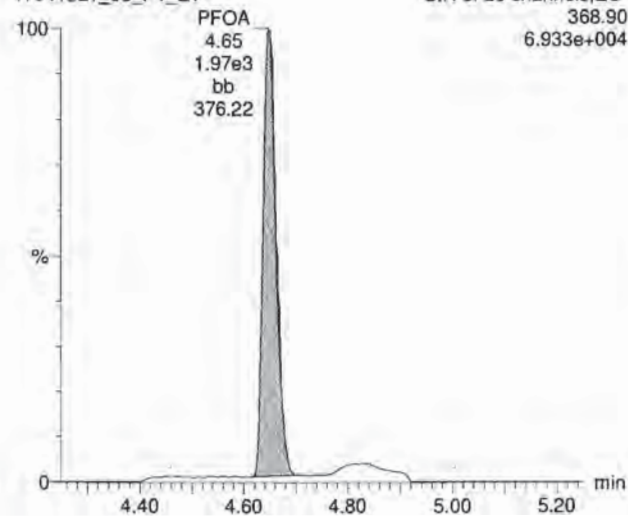
SIR of 20 channels,ES-
79.91
1.818e+004



PFOA

170418L1_03_P1_E1

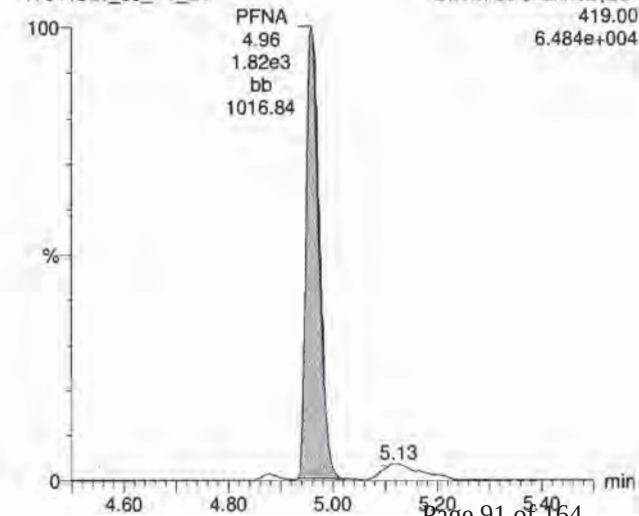
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368.90
6.933e+004



PFNA

170418L1_03_P1_E1

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419.00
6.484e+004



Vista Analytical Laboratory Q1

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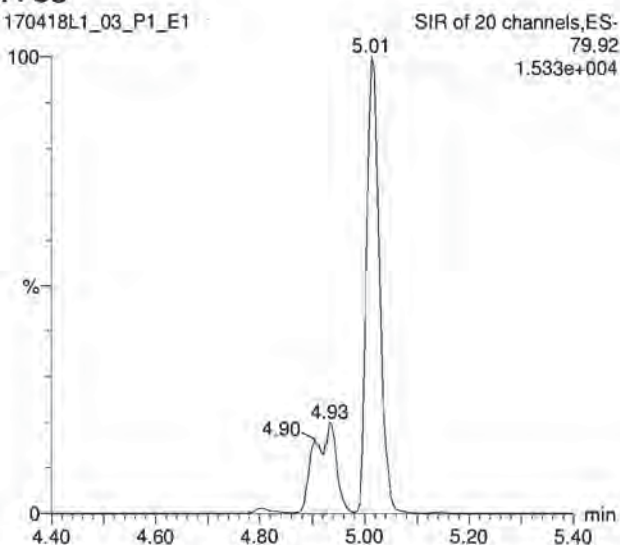
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

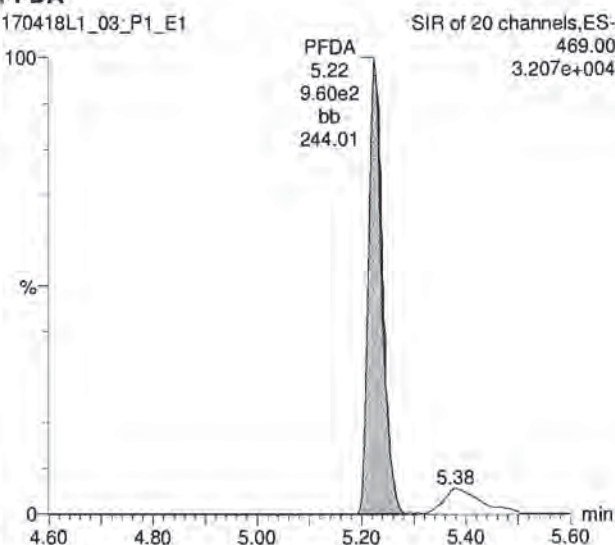
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Lab: ©PE-SCIEX, User: sciex

PFOS

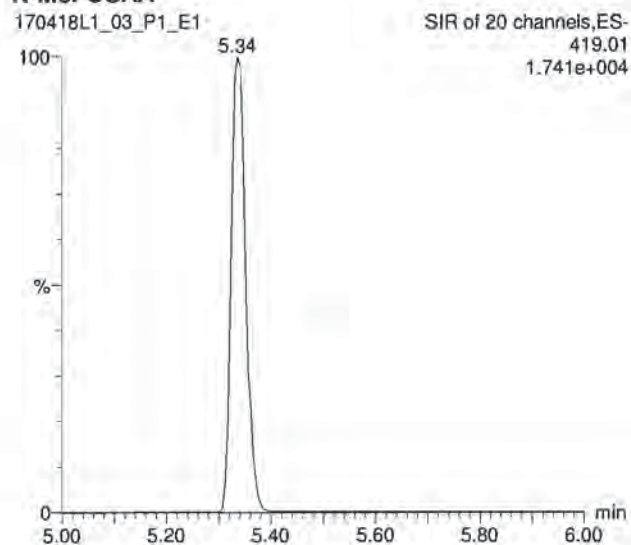
170418L1_03_P1_E1

**PFDA**

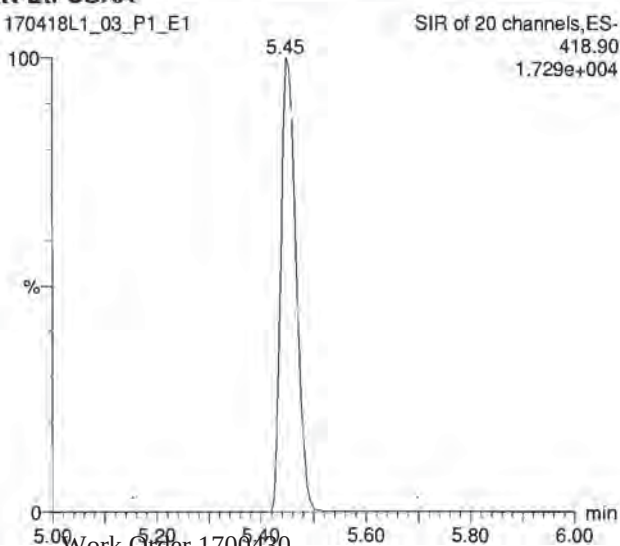
170418L1_03_P1_E1

**N-MeFOSAA**

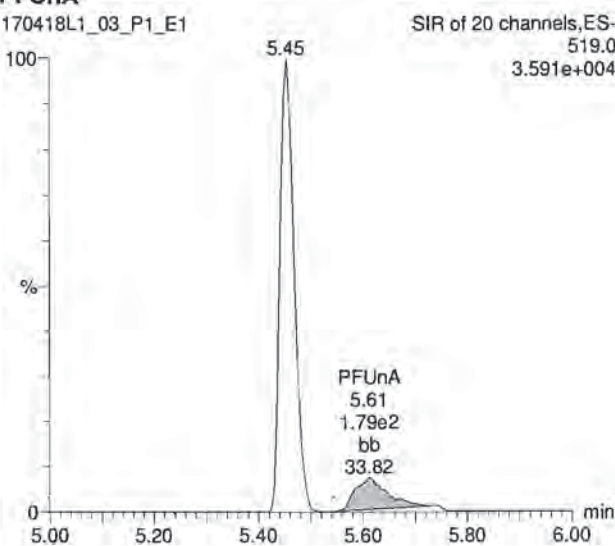
170418L1_03_P1_E1

**N-EtFOSAA**

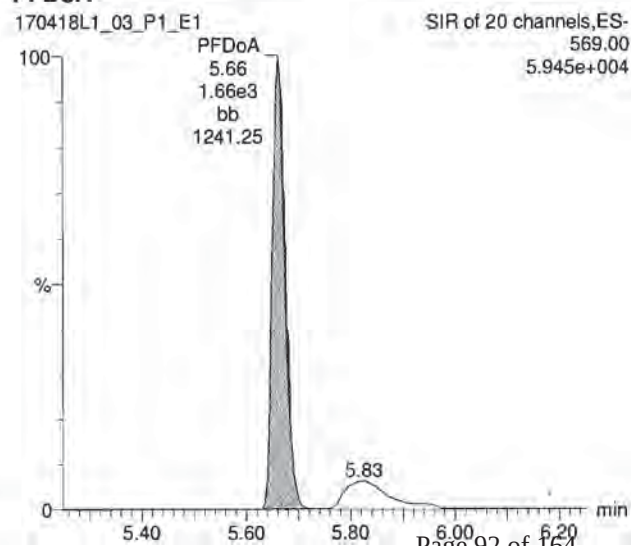
170418L1_03_P1_E1

**PFUnA**

170418L1_03_P1_E1

**PFDoA**

170418L1_03_P1_E1



Vista Analytical Laboratory Q1

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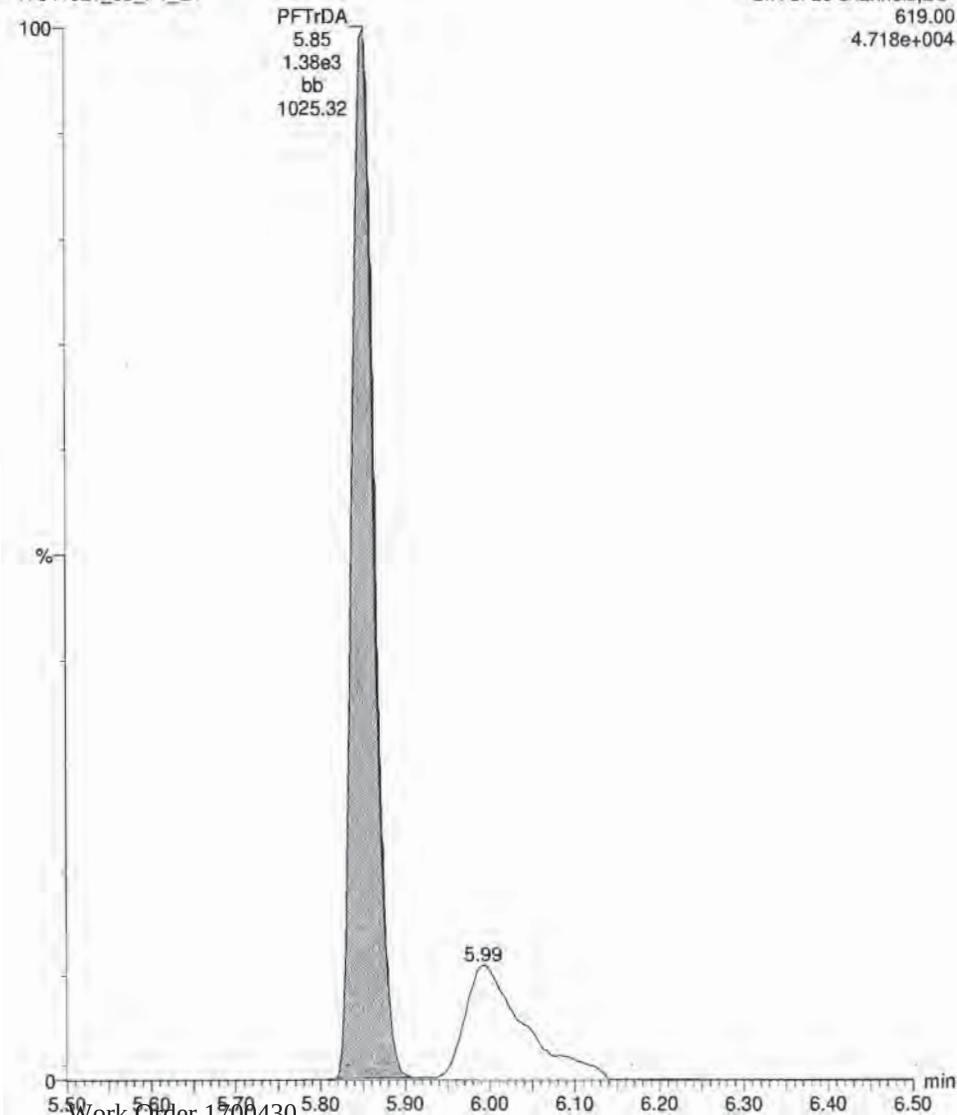
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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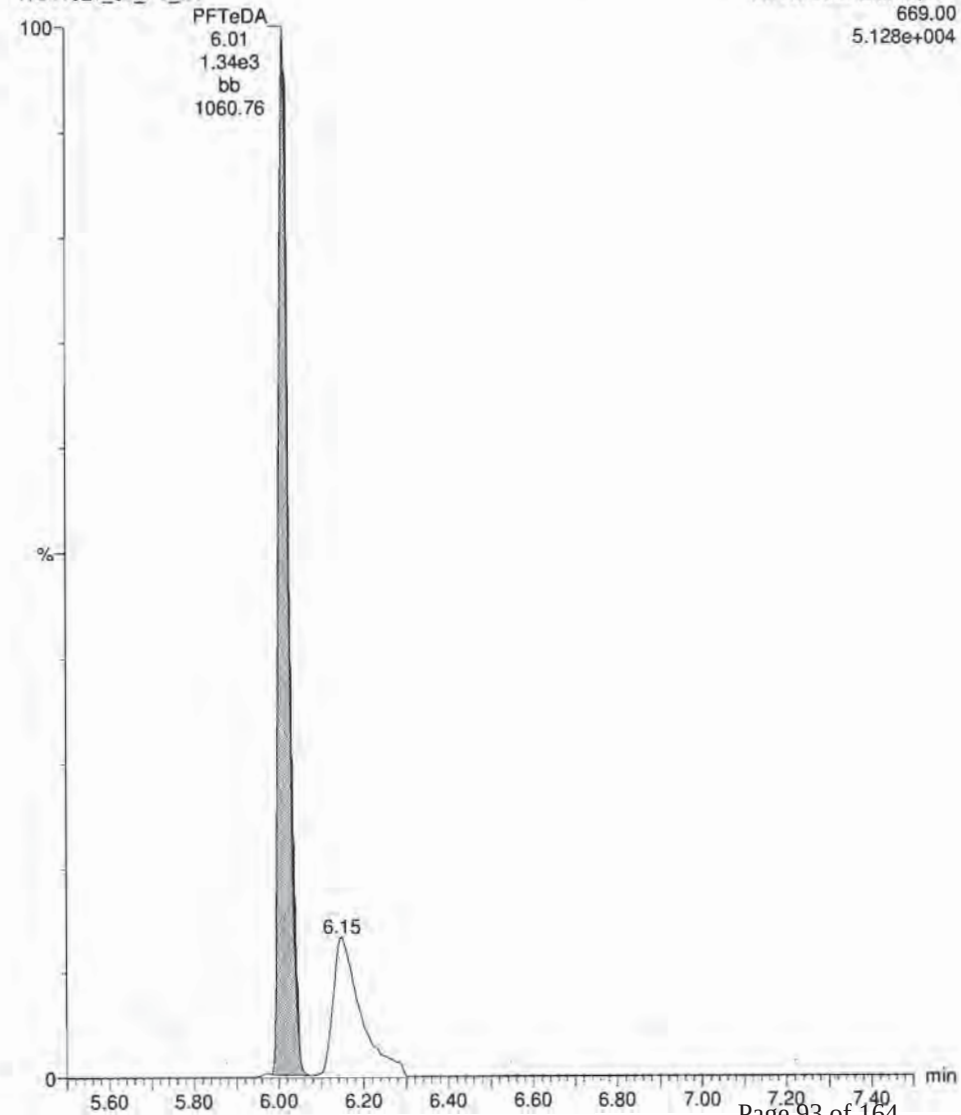
PFTrDA

170418L1_03_P1_E1



PFTeDA

170418L1_03_P1_E1



Vista Analytical Laboratory Q1

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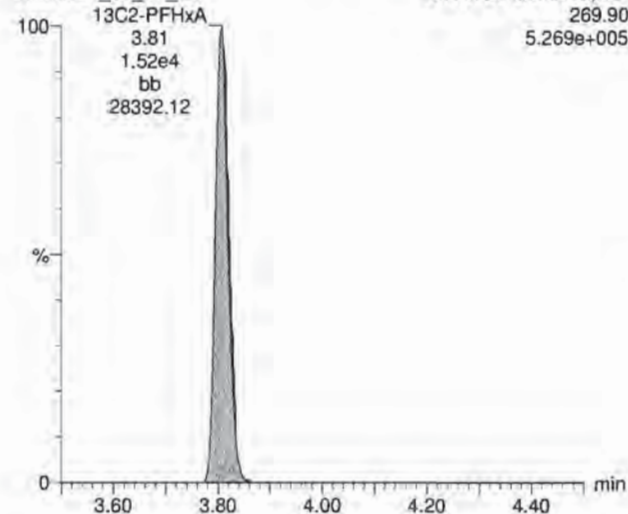
Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

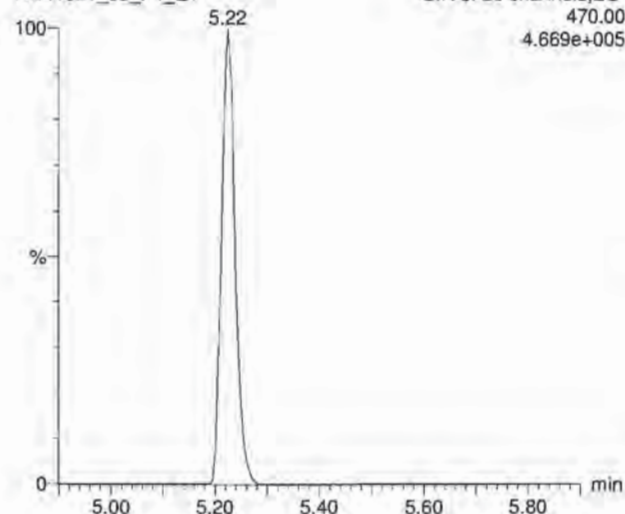
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Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

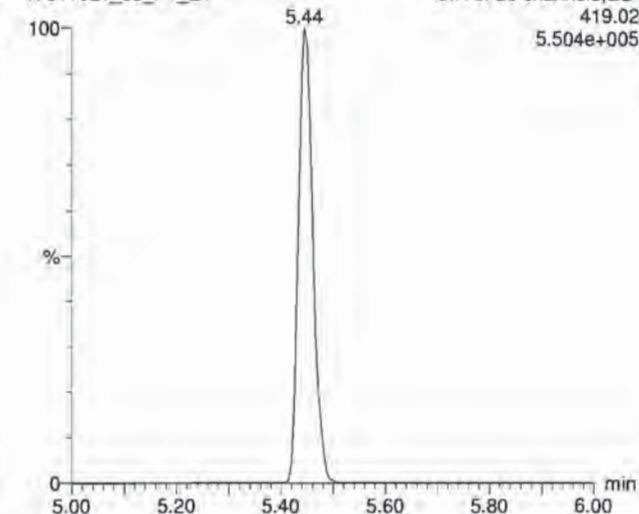
170418L1_03_P1_E1

**13C2-PFDA**

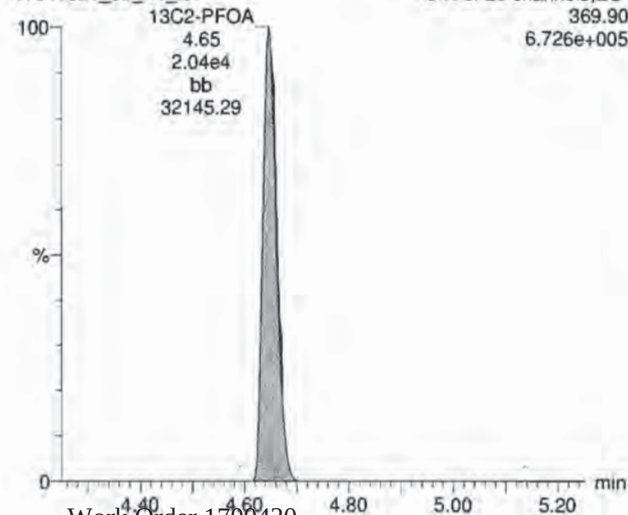
170418L1_03_P1_E1

**d5-N-EtFOSAA**

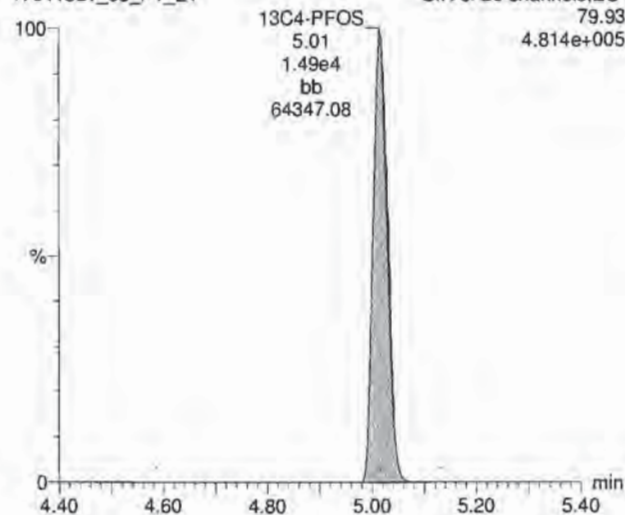
170418L1_03_P1_E1

**13C2-PFOA**

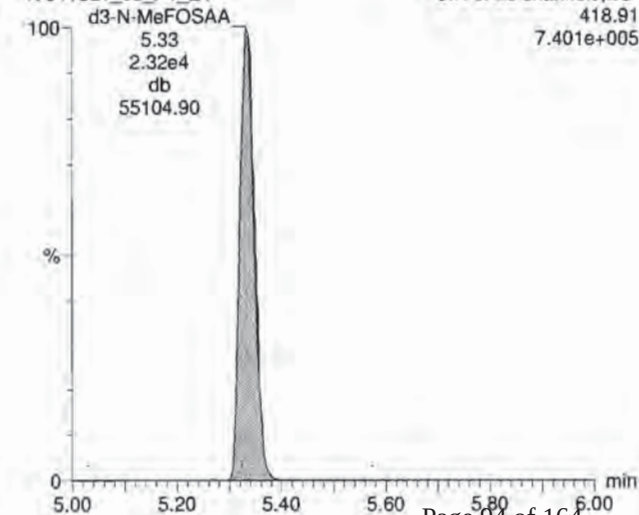
170418L1_03_P1_E1

**13C4-PFOS**

170418L1_03_P1_E1

**d3-N-MeFOSAA**

170418L1_03_P1_E1



Vista Analytical Laboratory Q1

Dataset: Untitled

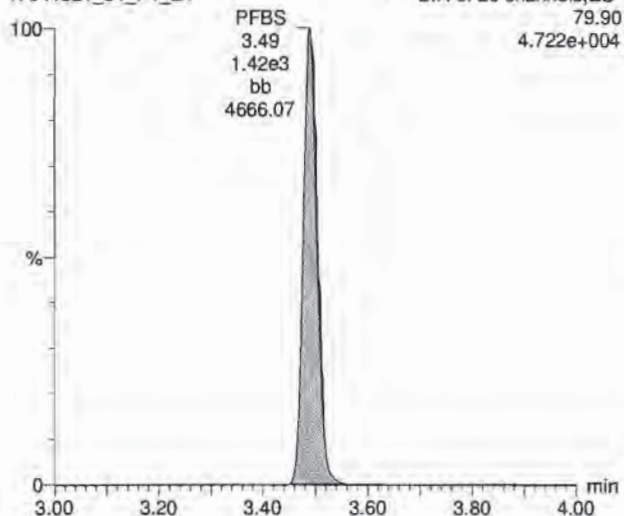
Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

ID: ST170418L1-3 537 DW CS(-1) 17D1813, Description: 537 DW CS(-1) 17D1813, Name: 170418L1_04.wiff, Date: 18-Apr-2017, Time: 17:24:47, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

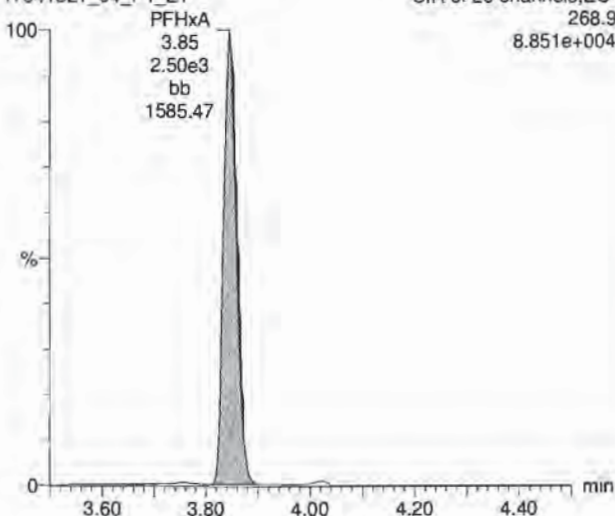
PFBS

170418L1_04_P1_E1



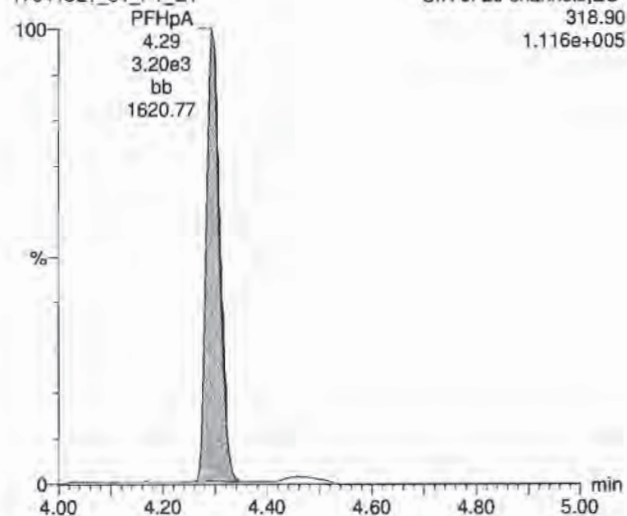
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170418L1_04_P1_E1



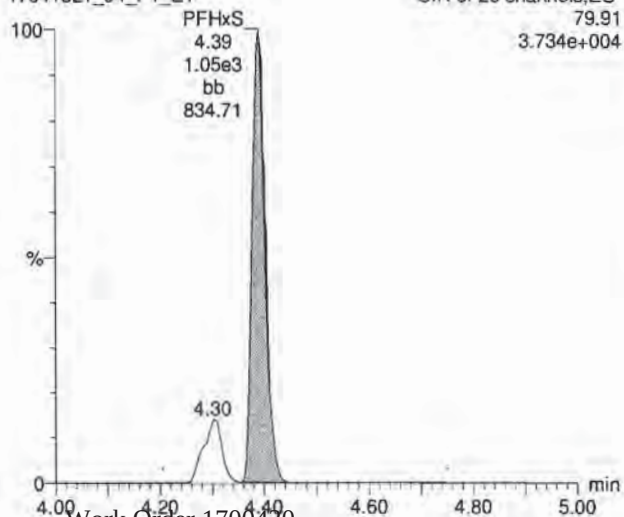
PFHpA

170418L1_04_P1_E1



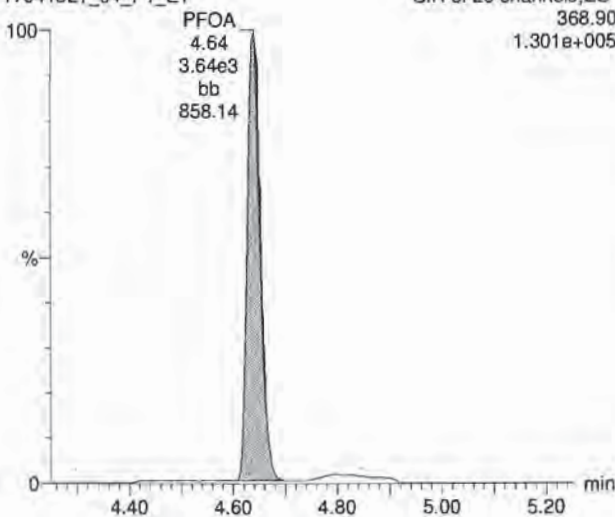
PFHxS

170418L1_04_P1_E1



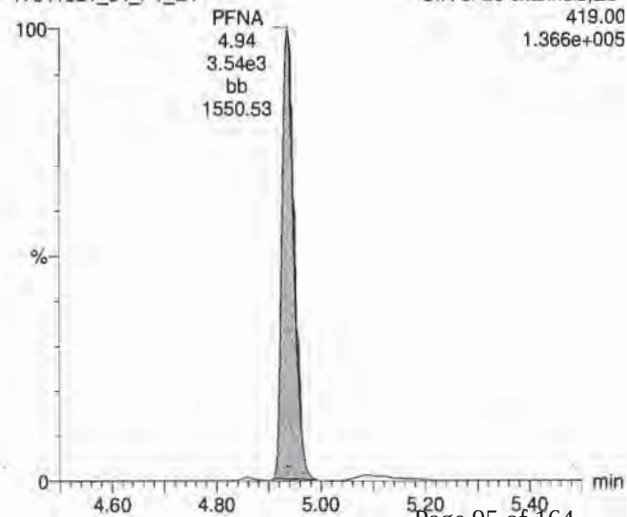
PFOA

170418L1_04_P1_E1



PFNA

170418L1_04_P1_E1



Vista Analytical Laboratory Q1

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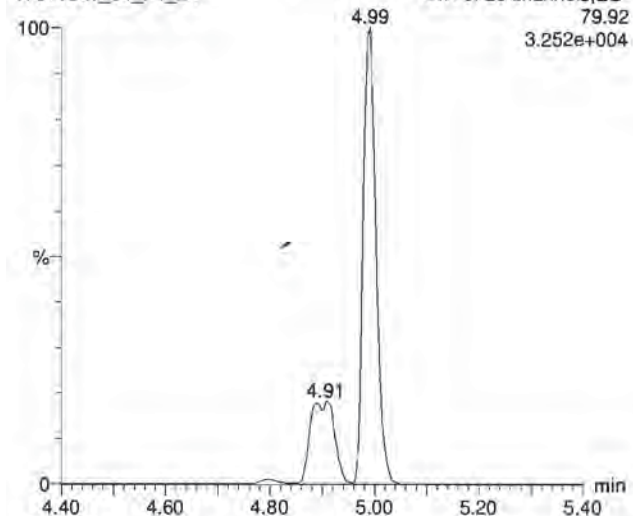
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

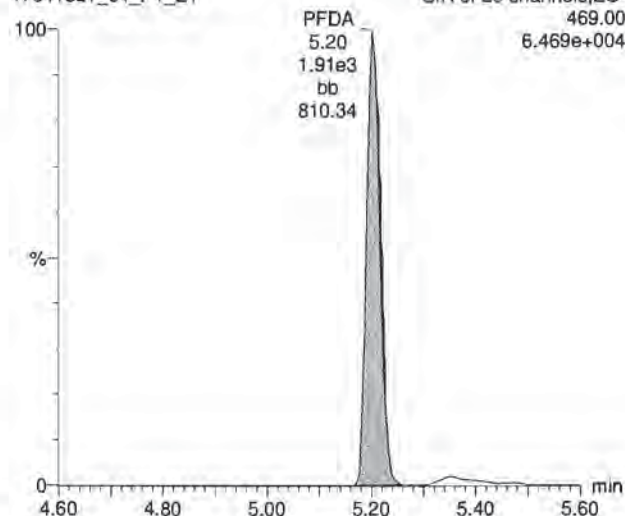
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Lab: ©PE-SCIEX, User: sciex

PFOS

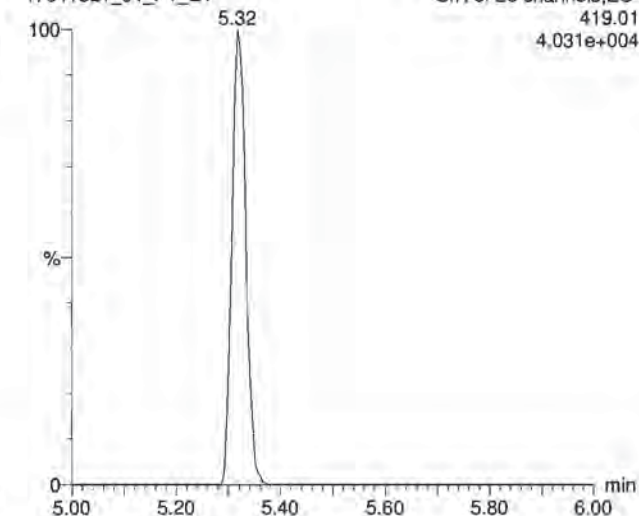
170418L1_04_P1_E1

**PFDA**

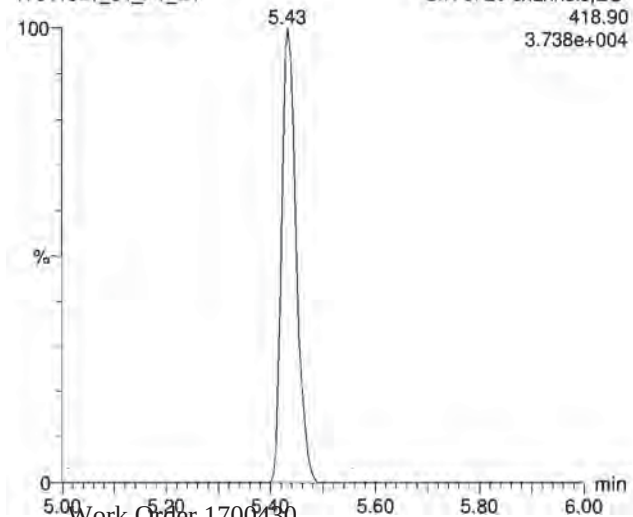
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**N-MeFOSAA**

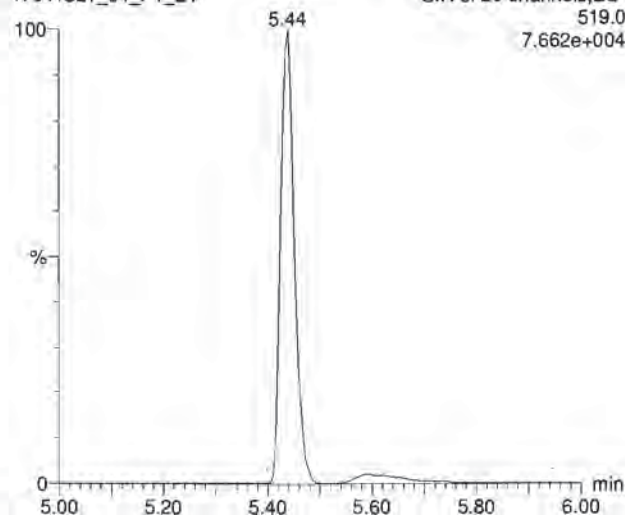
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**N-EtFOSAA**

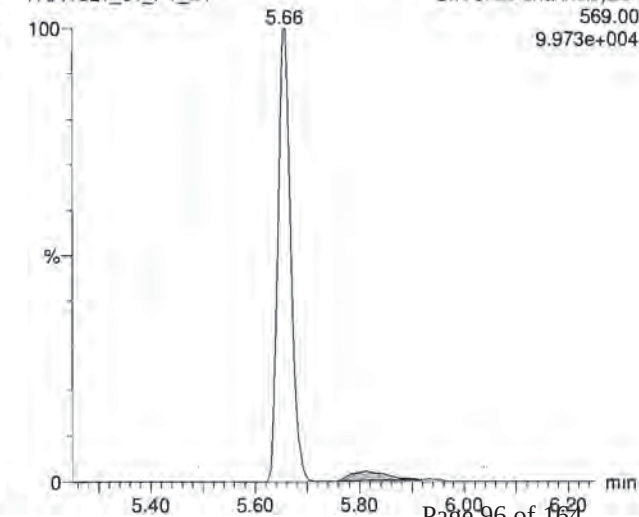
170418L1_04_P1_E1

**PFUnA**

170418L1_04_P1_E1

**PFDoA**

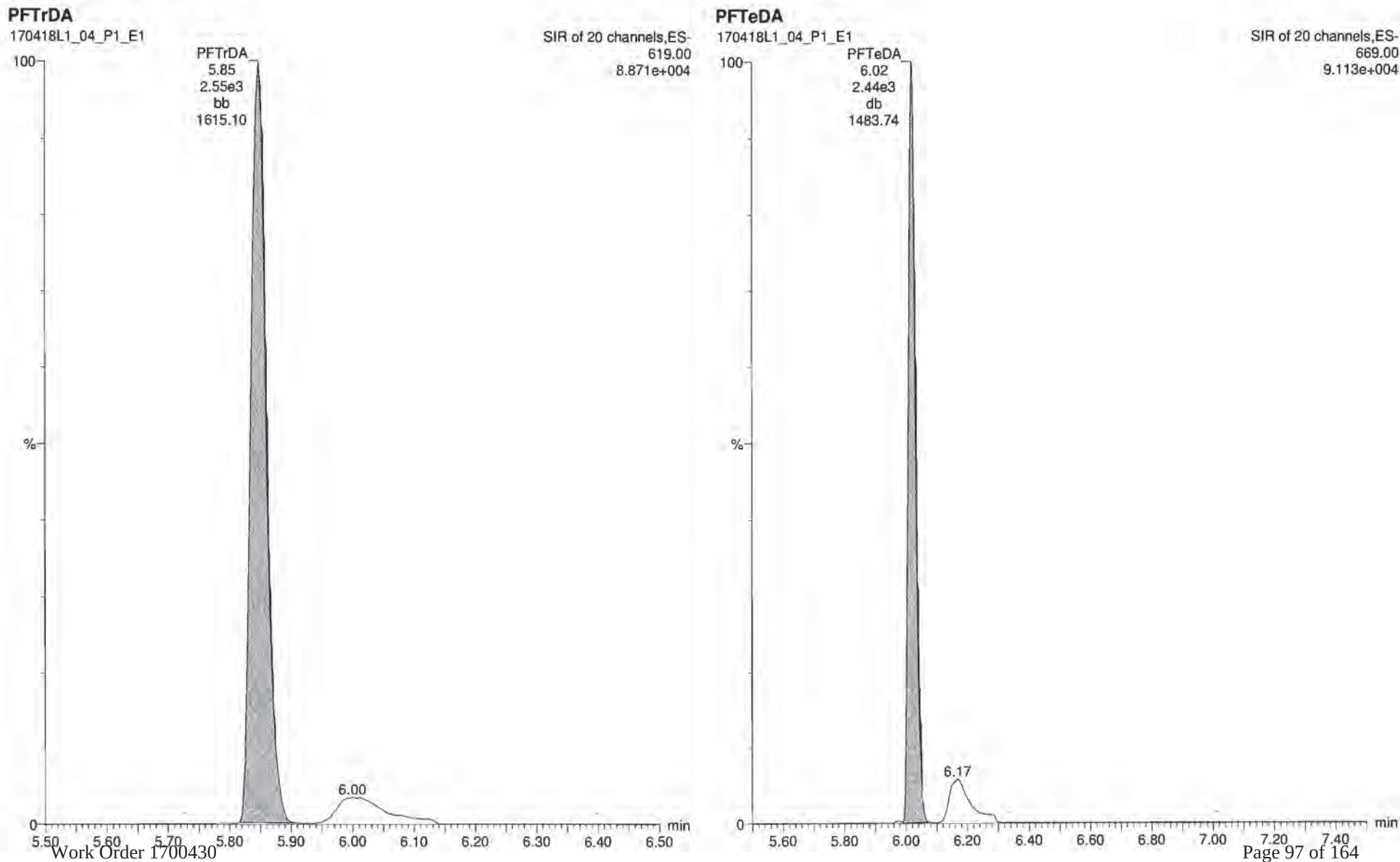
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Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex



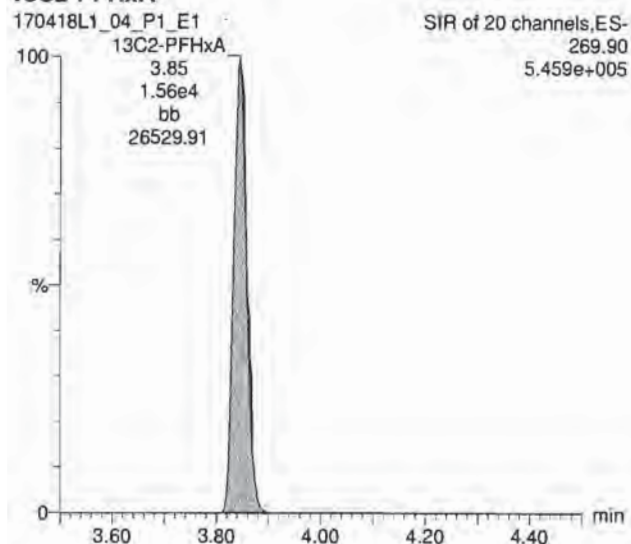
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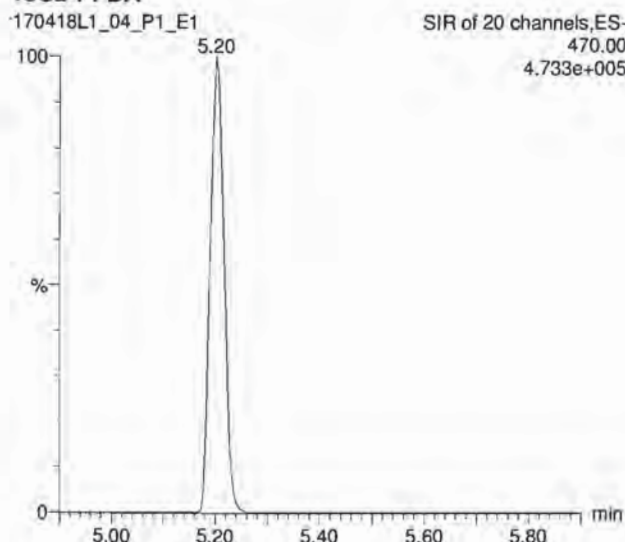
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Lab: ©PE-SCIEX, User: sciex

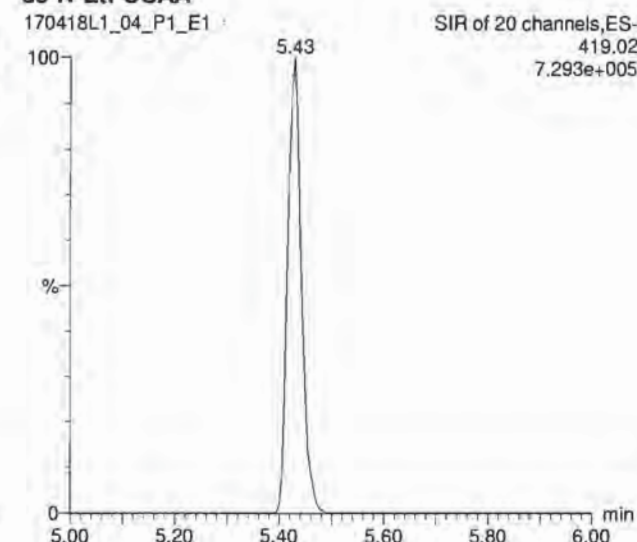
13C2-PFHxA



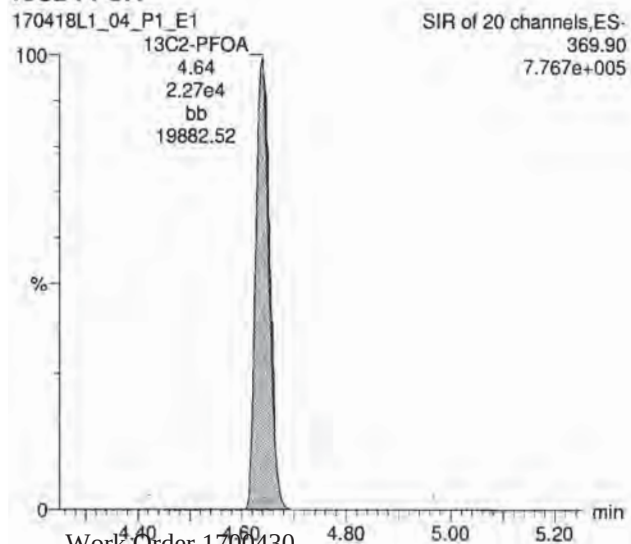
13C2-PFDA



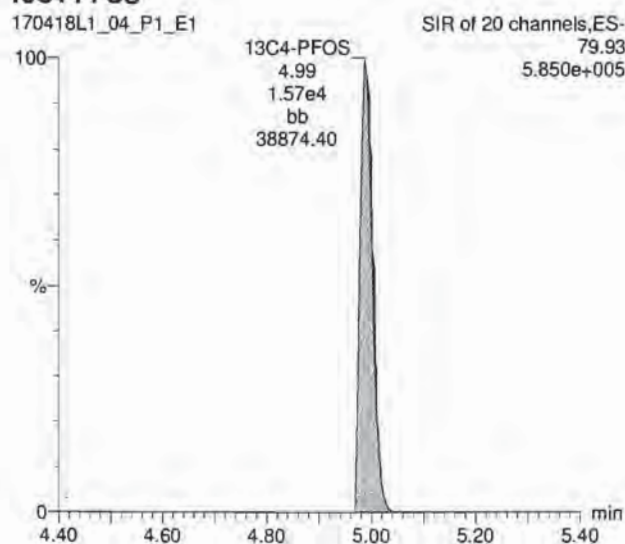
d5-N-EtFOSAA



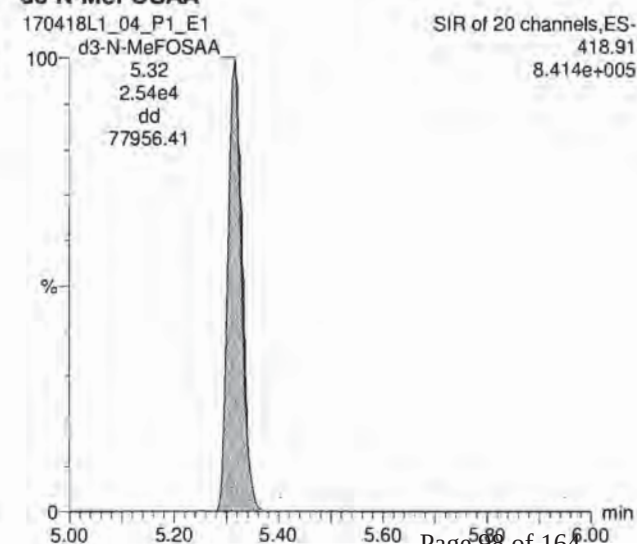
13C2-PFOA



13C4-PFOS



d3-N-MeFOSAA



Vista Analytical Laboratory Q1

Dataset: Untitled

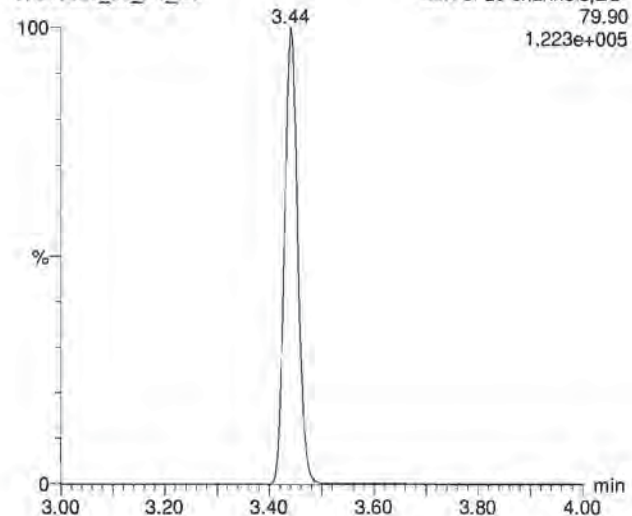
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

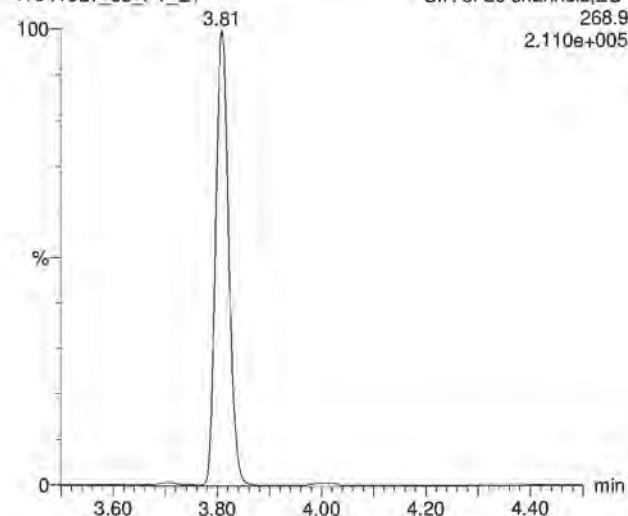
ID: ST170418L1-4 537 DW CS0 17D1814, Description: 537 DW CS0 17D1814, Name: 170418L1_05.wiff, Date: 18-Apr-2017, Time: 17:36:59, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

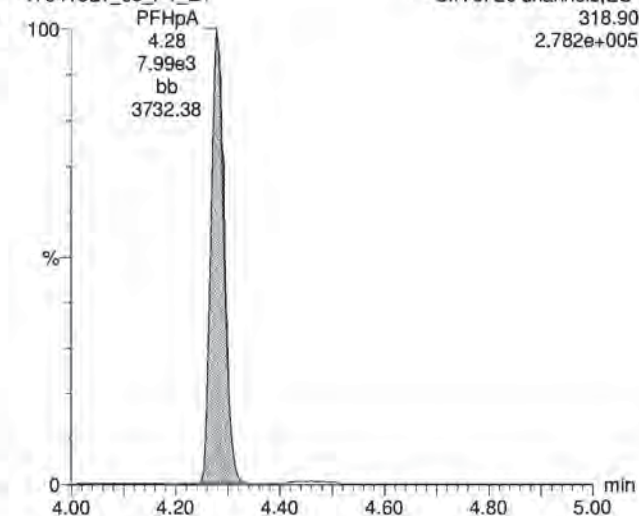
170418L1_05_P1_E1

**PFHxA**

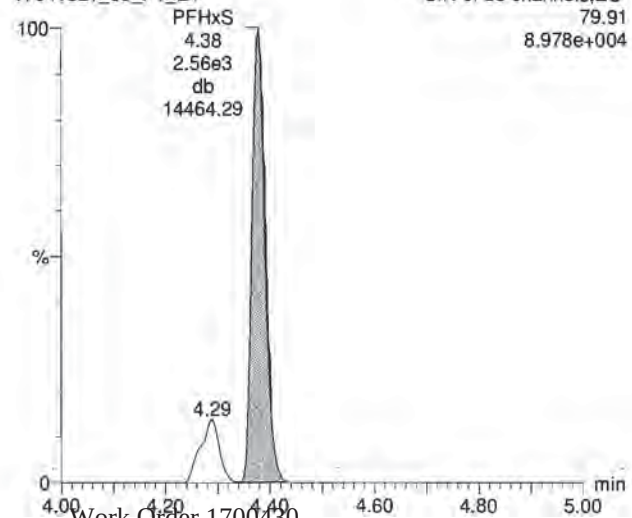
170418L1_05_P1_E1

**PFHpA**

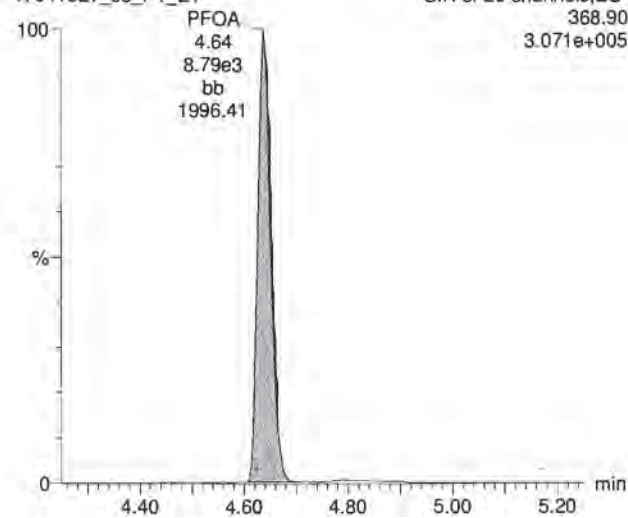
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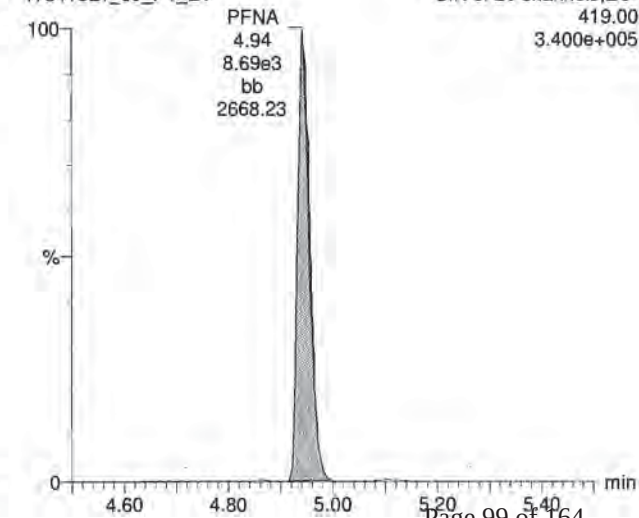
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**PFOA**

170418L1_05_P1_E1

**PFNA**

170418L1_05_P1_E1



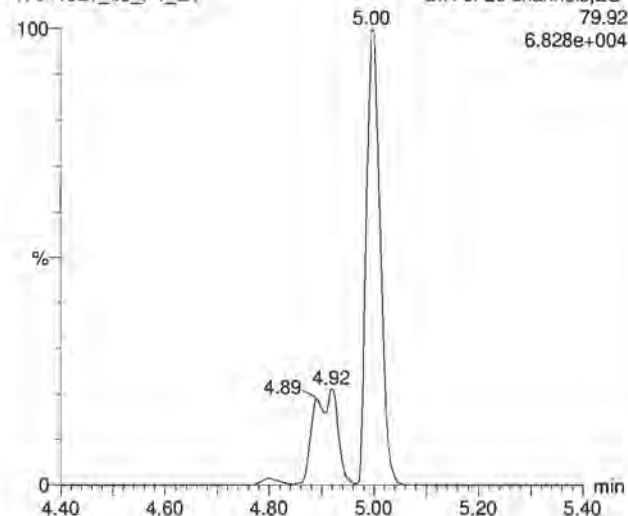
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

ID: ST170418L1-4 537 DW CS0 17D1814, Description: 537 DW CS0 17D1814, Name: 170418L1_05.wiff, Date: 18-Apr-2017, Time: 17:36:59, Instrument: , Lab: ©PE-SCIEX,
User: sciex

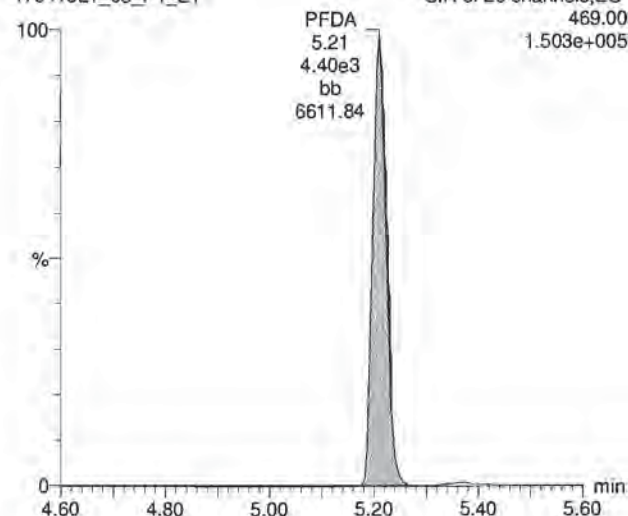
PFOS

170418L1_05_P1_E1



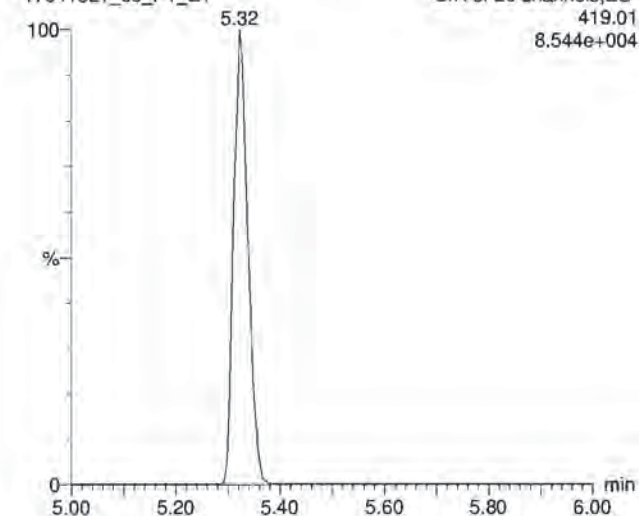
PFDA

170418L1_05_P1_E1



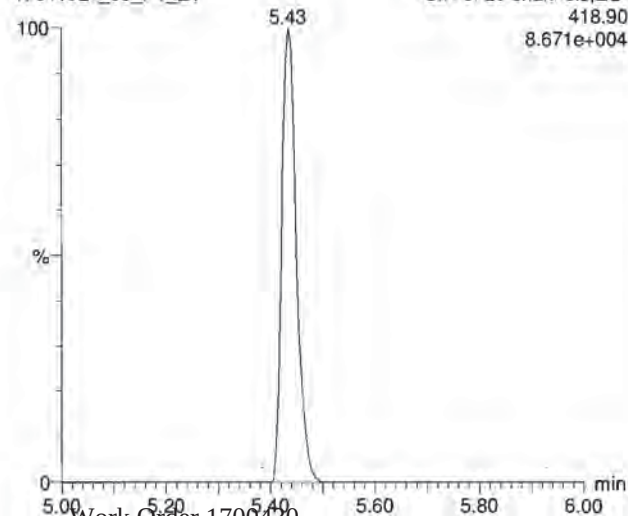
N-MeFOSAA

170418L1_05_P1_E1



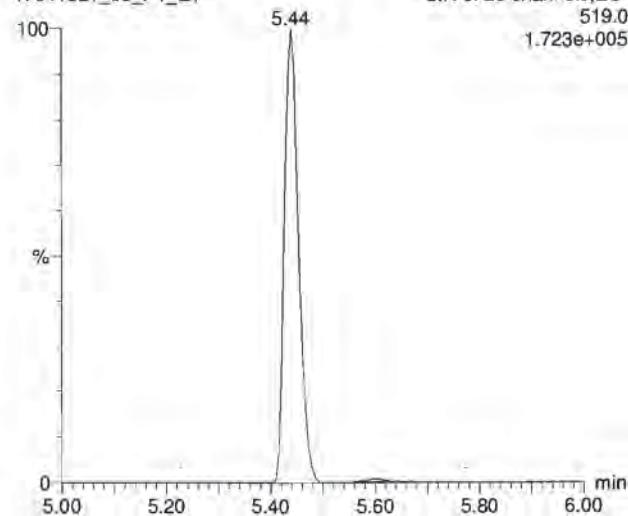
N-EtFOSAA

170418L1_05_P1_E1



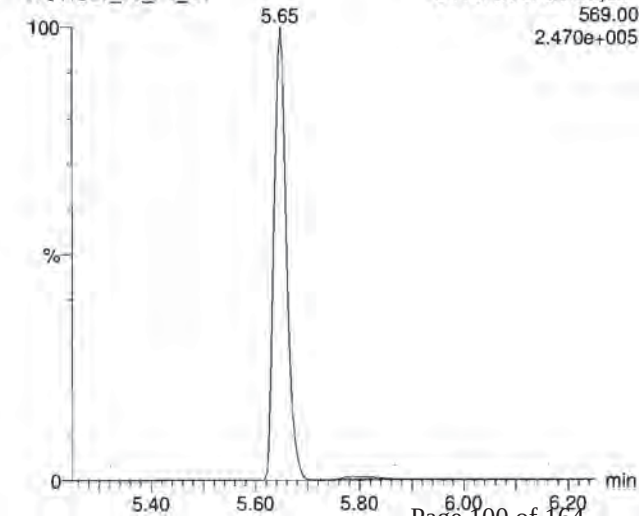
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170418L1_05_P1_E1



PFDaA

170418L1_05_P1_E1



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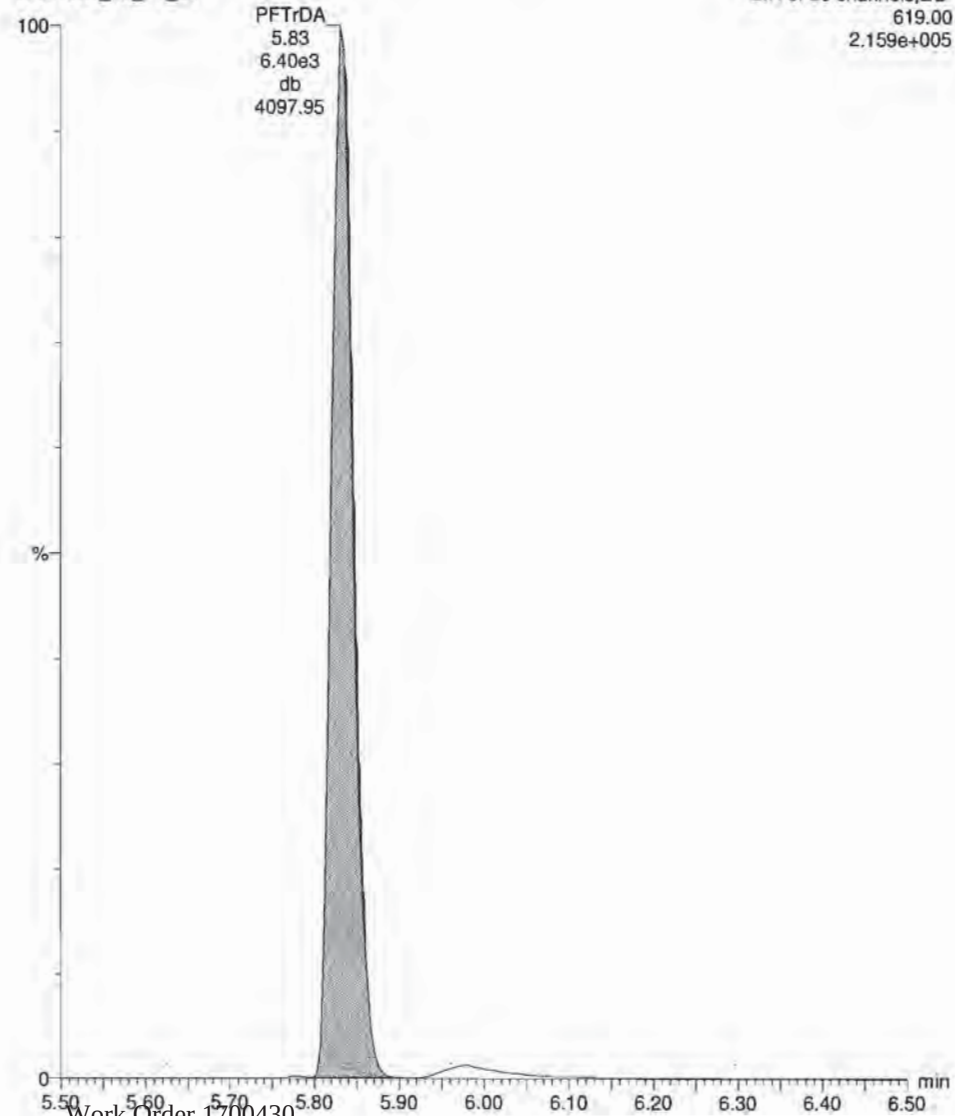
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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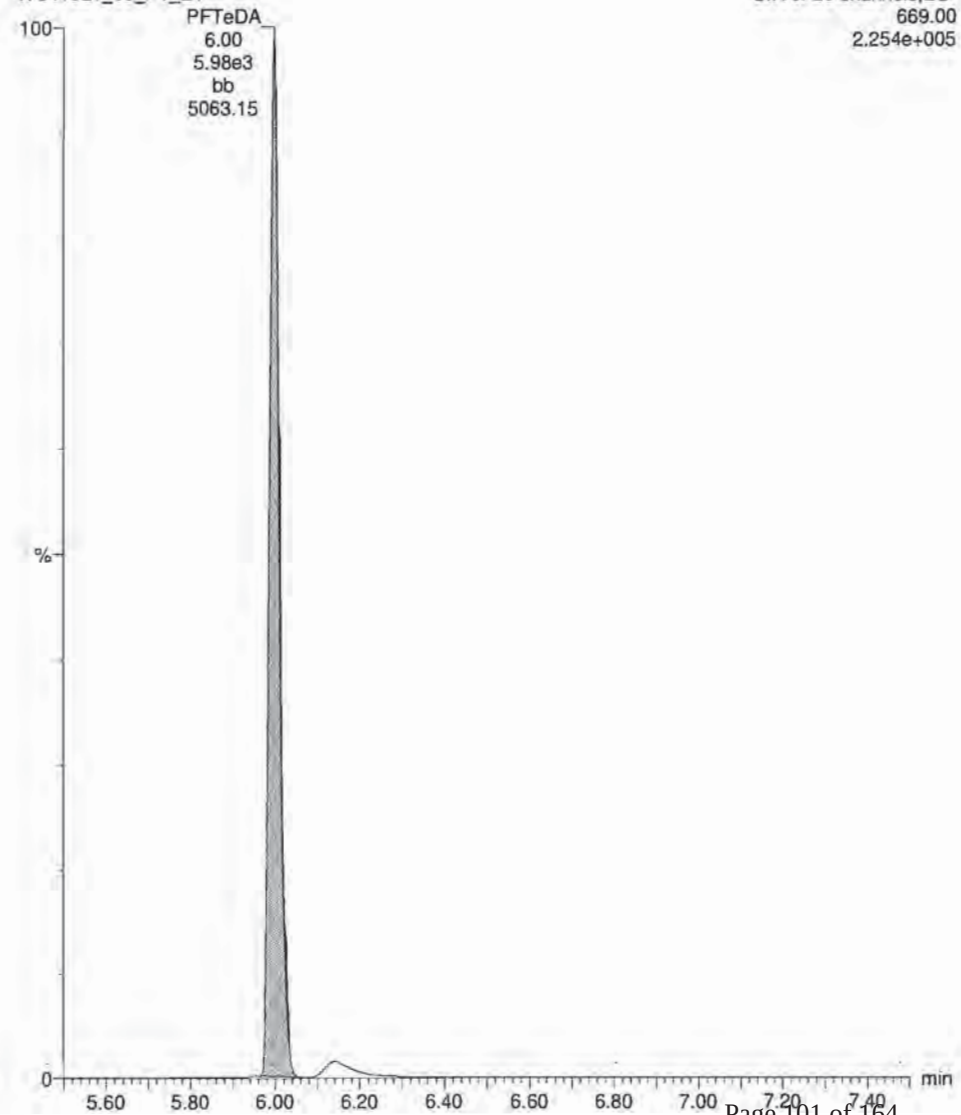
PFTrDA

170418L1_05_P1_E1



PFTeDA

170418L1_05_P1_E1

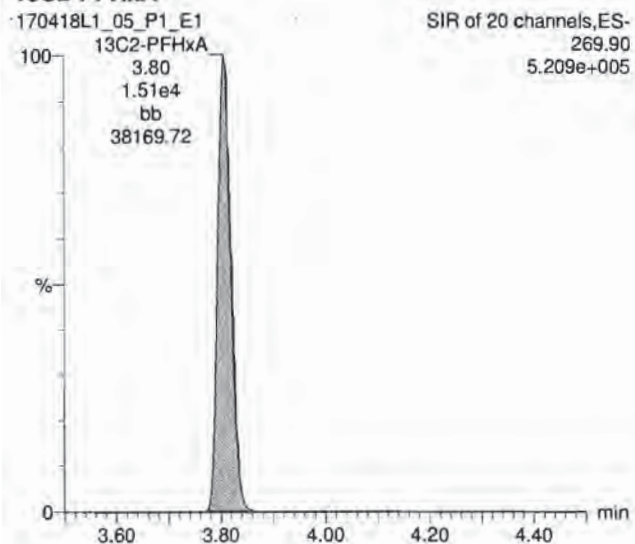


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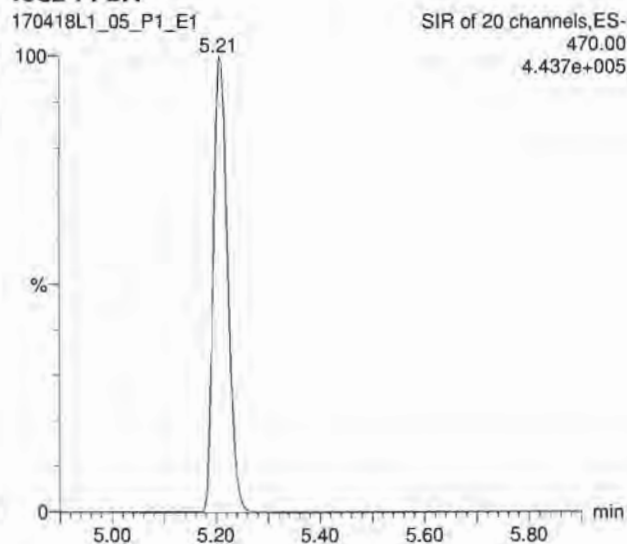
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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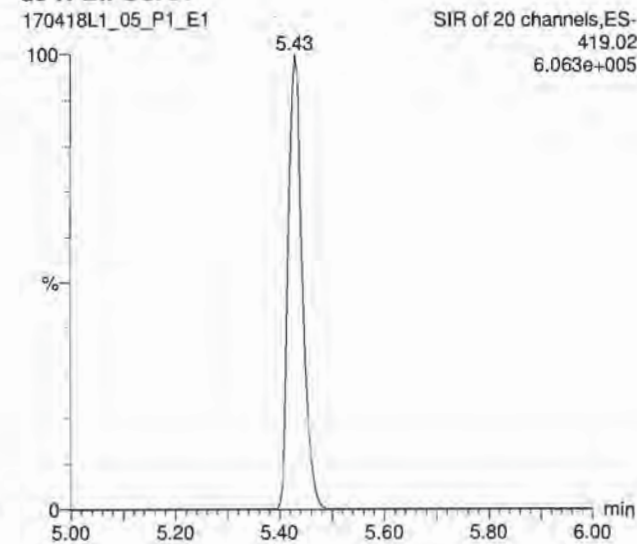
13C2-PFHxA



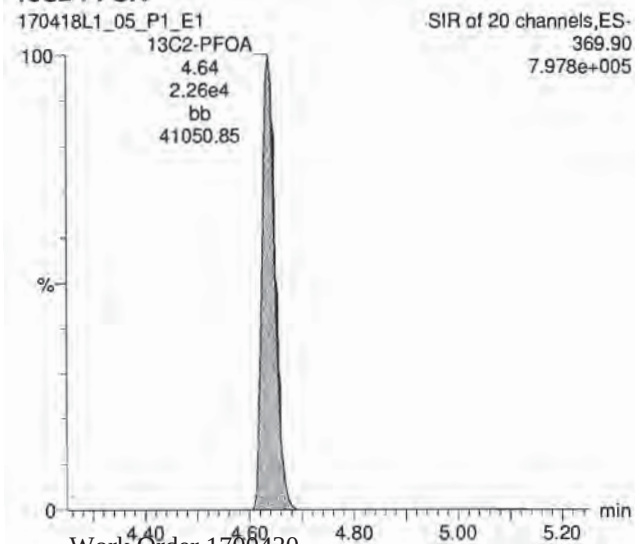
13C2-PFDA



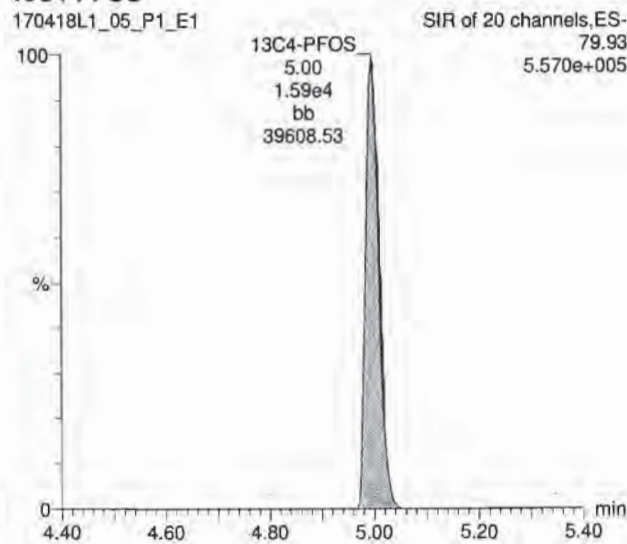
d5-N-EtFOSAA



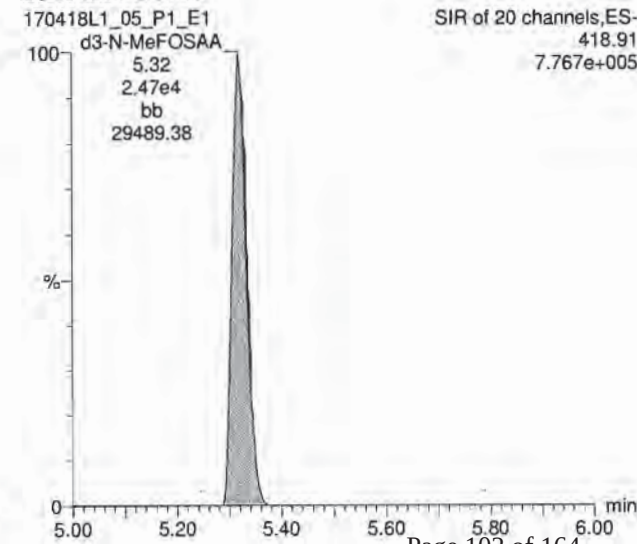
13C2-PFOA



13C4-PFOS



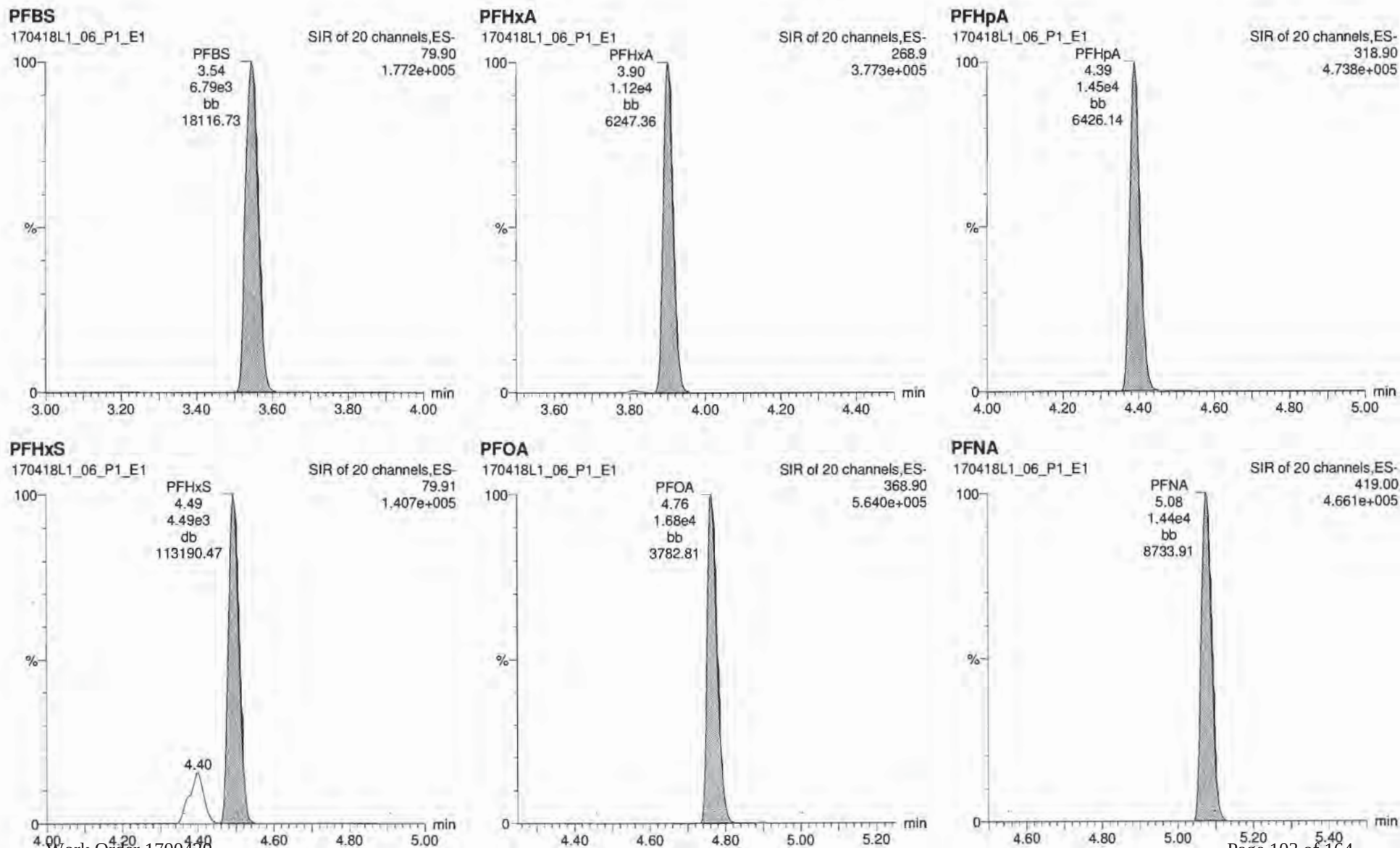
d3-N-MeFOSAA



Dataset: Untitled

Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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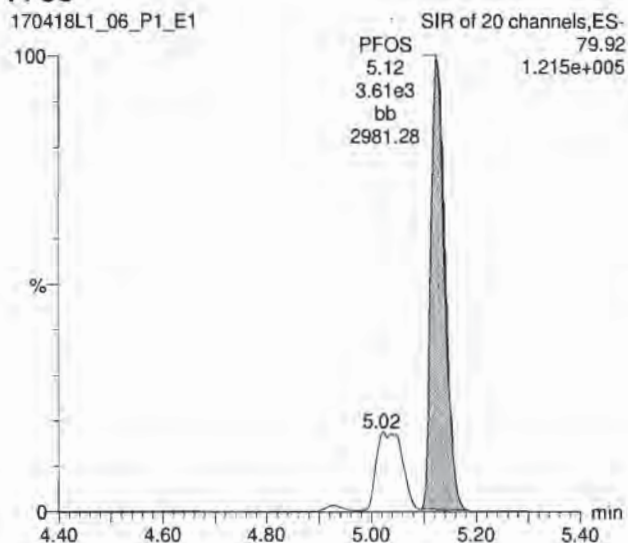
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Last Altered: Wednesday, April 19, 2017 09:44:12 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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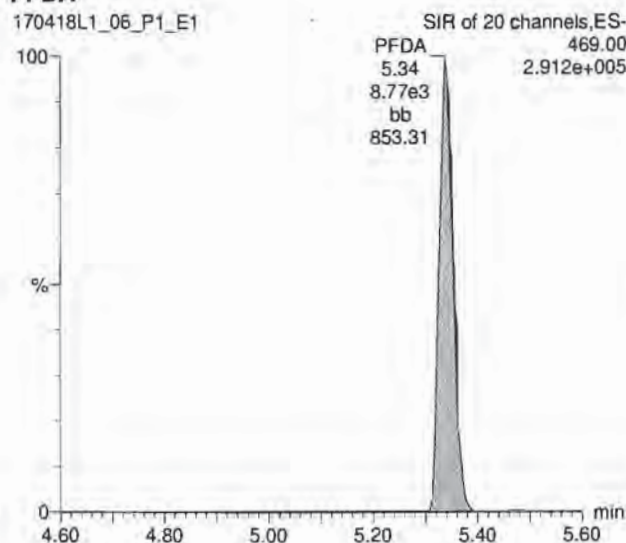
PFOS

170418L1_06_P1_E1



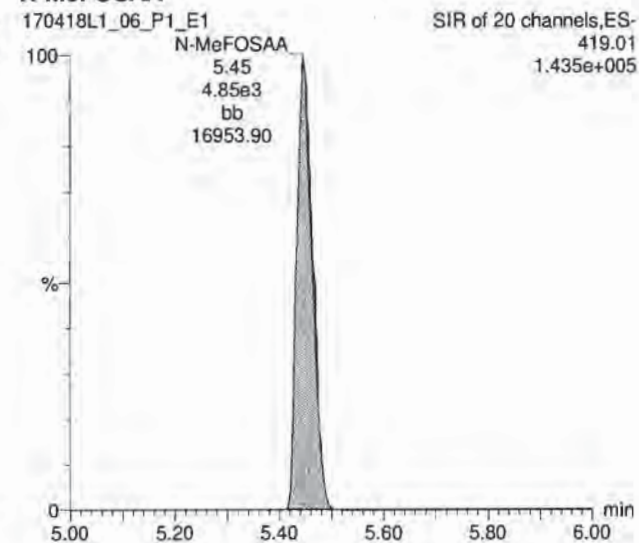
PFDA

170418L1_06_P1_E1



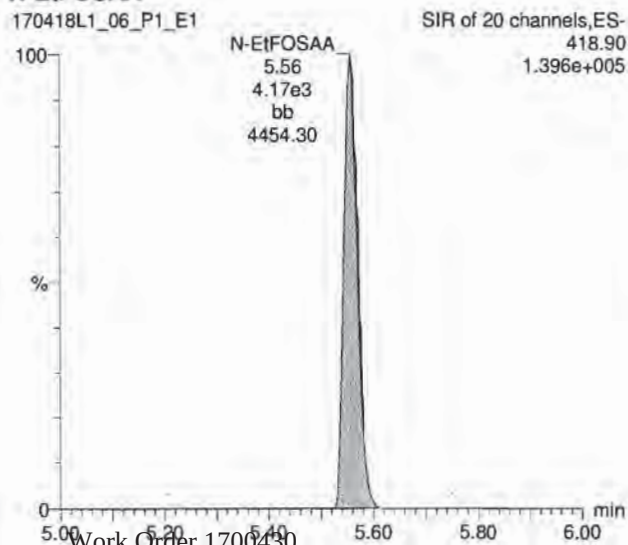
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170418L1_06_P1_E1



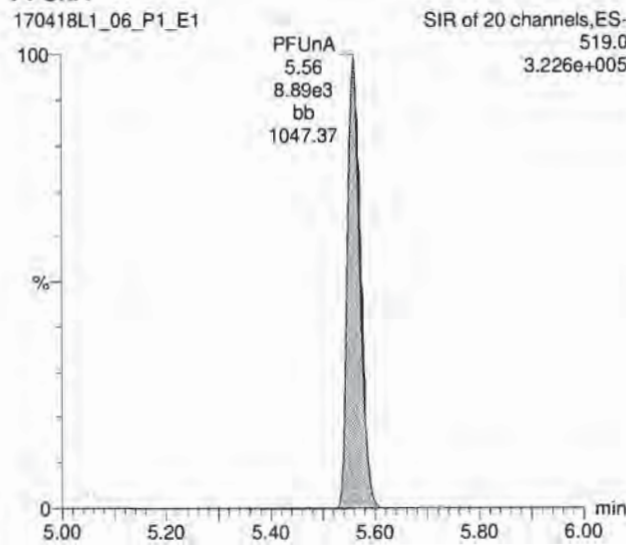
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170418L1_06_P1_E1



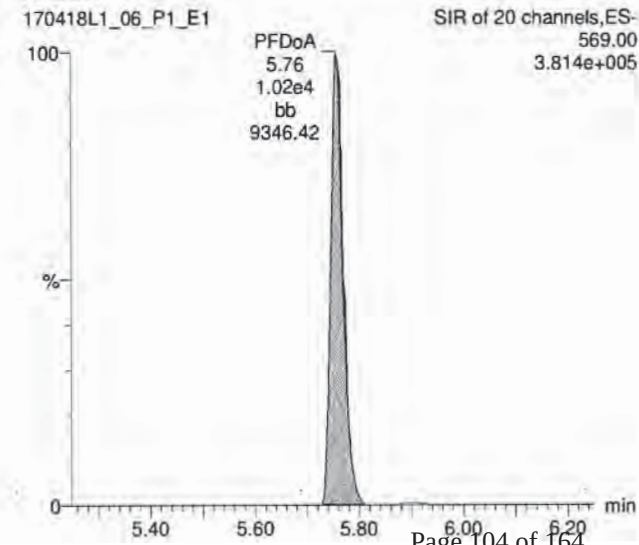
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170418L1_06_P1_E1



PFDoA

170418L1_06_P1_E1



Vista Analytical Laboratory Q1

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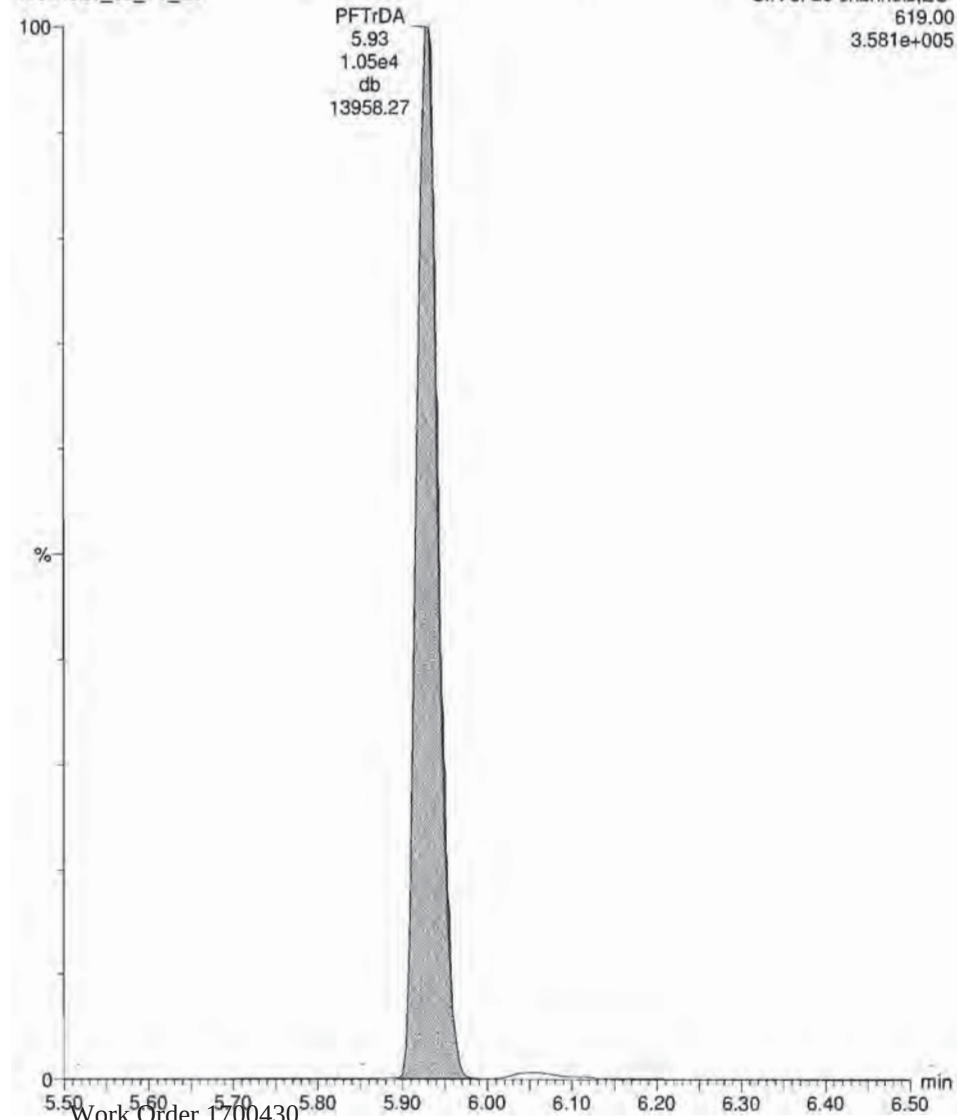
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Printed: Wednesday, April 19, 2017 09:45:16 Pacific Daylight Time

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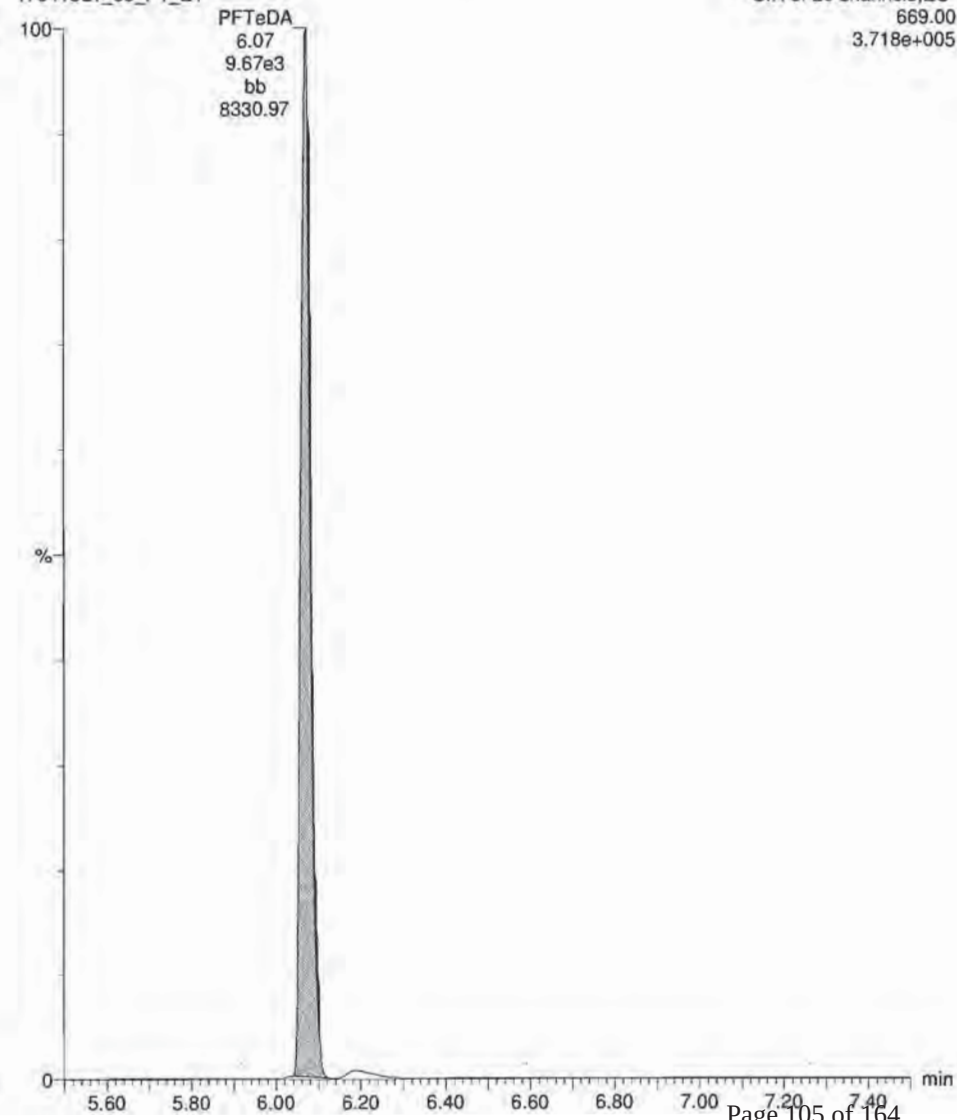
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170418L1_06_P1_E1



PFTeDA

170418L1_06_P1_E1



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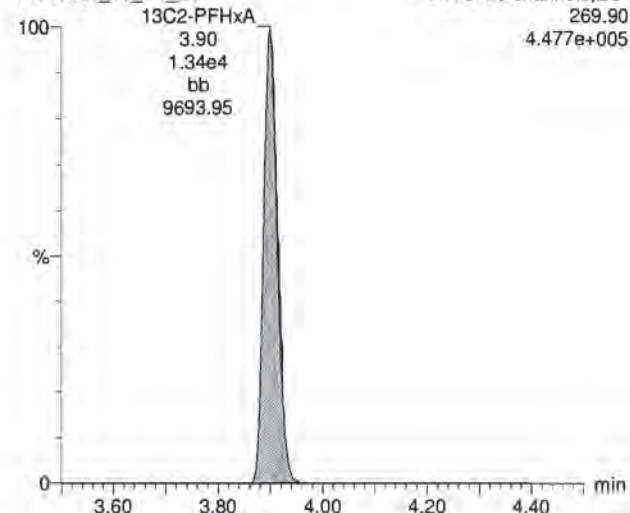
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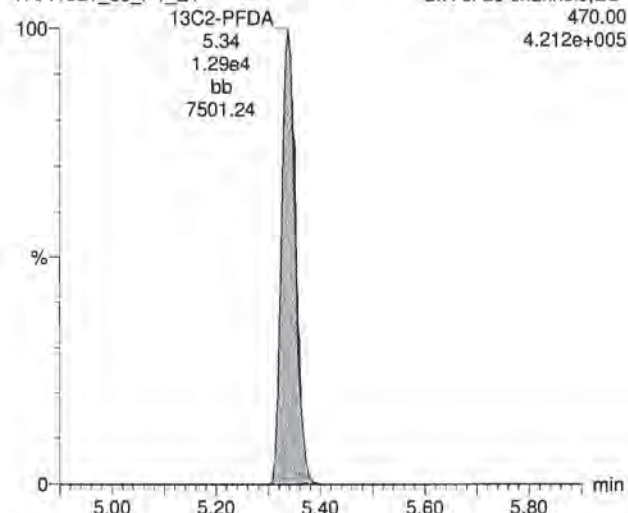
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170418L1_06_P1_E1



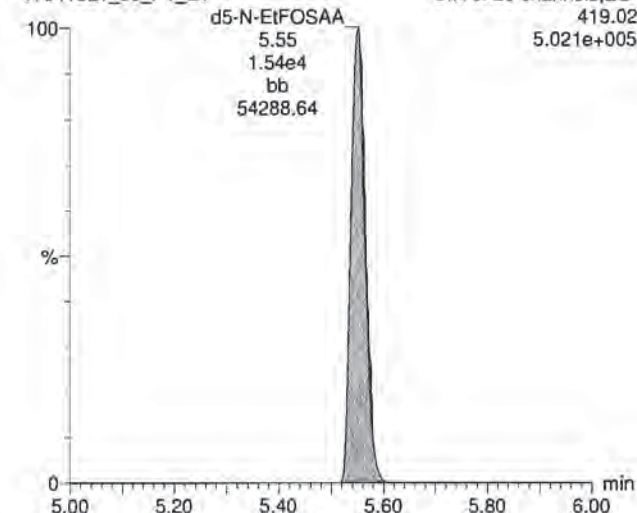
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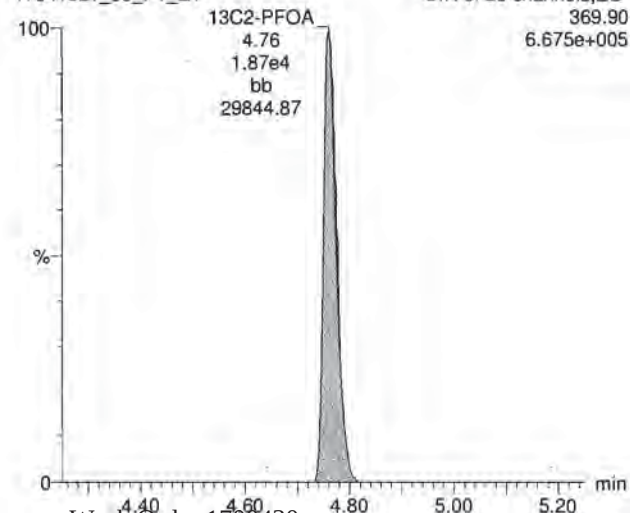
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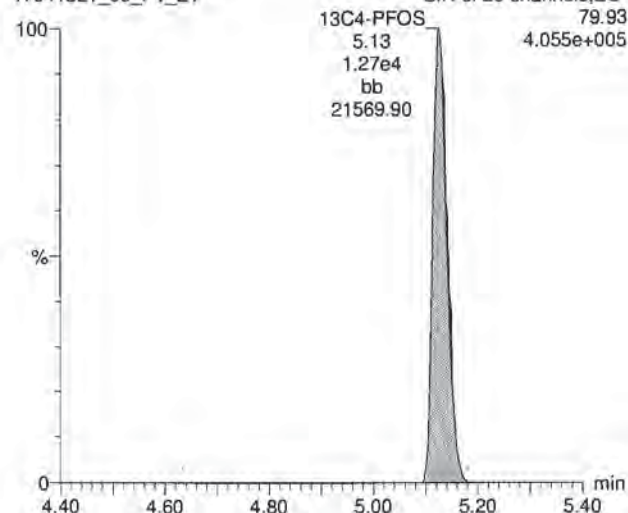
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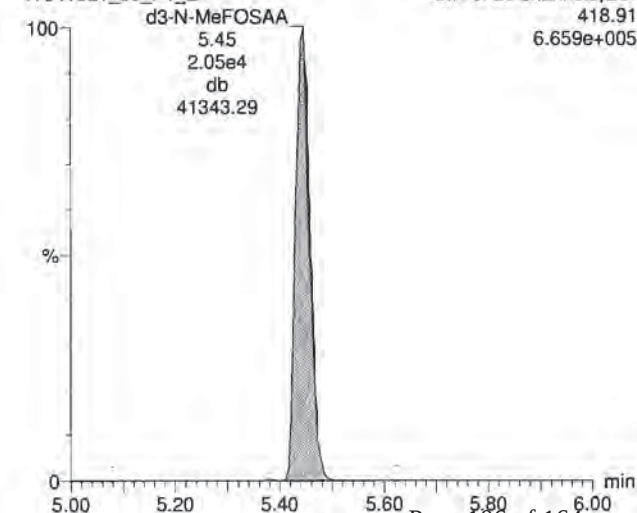
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170418L1_06_P1_E1



d3-N-MeFOSAA

170418L1_06_P1_E1



Vista Analytical Laboratory Q1

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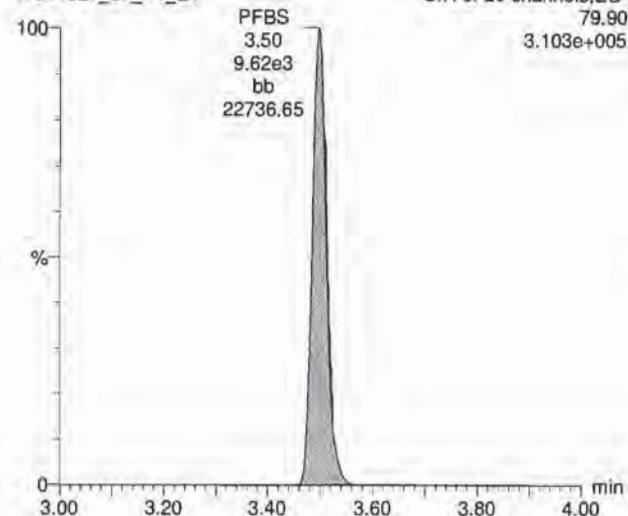
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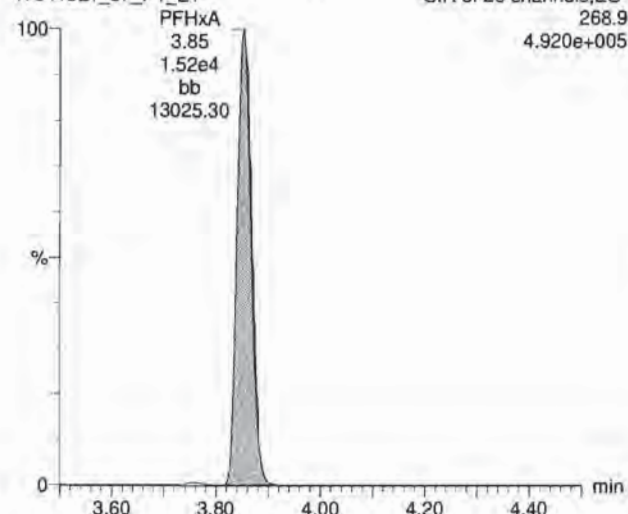
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Lab: ©PE-SCIEX, User: sciex

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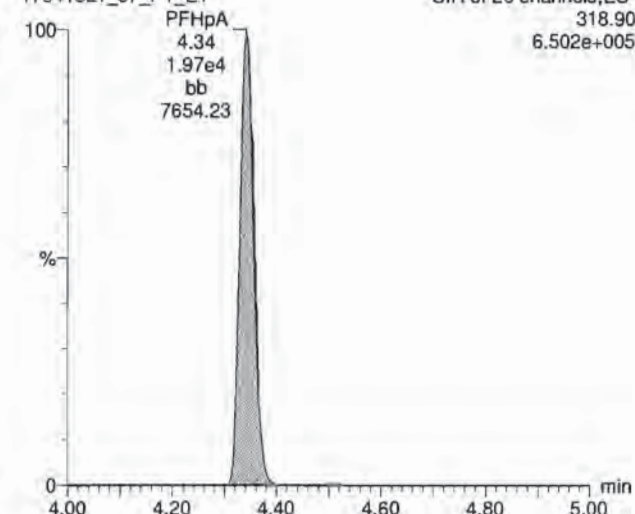
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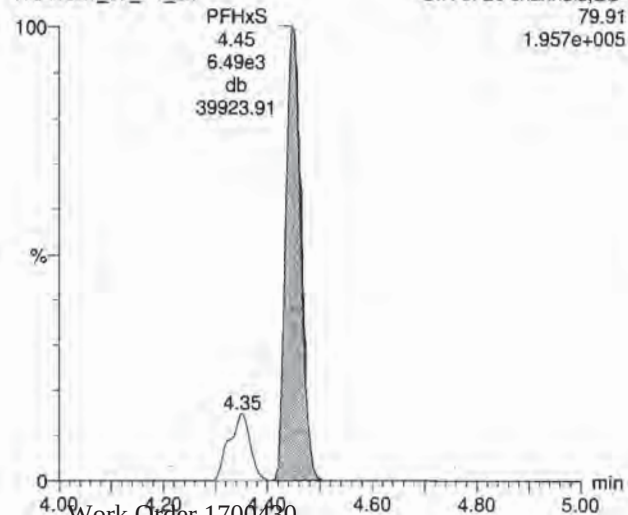
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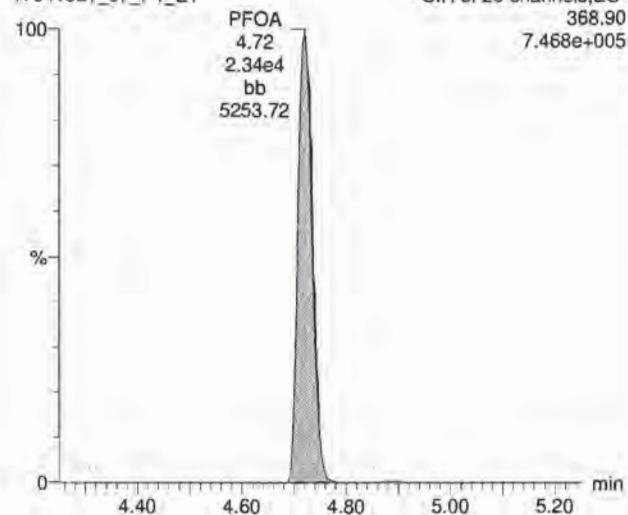
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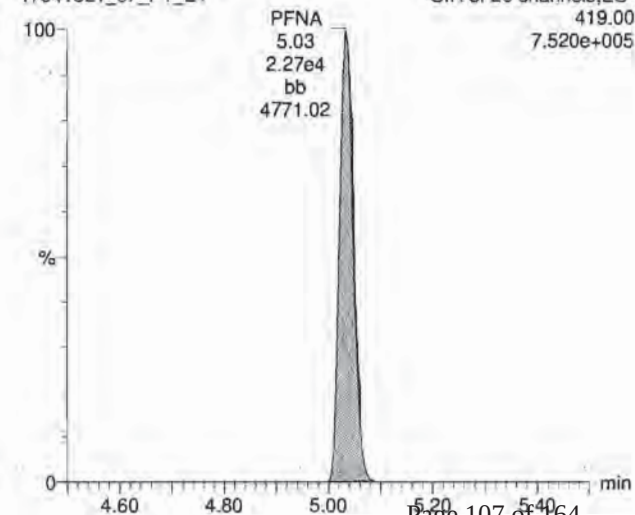
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**PFOA**

170418L1_07_P1_E1

**PFNA**

170418L1_07_P1_E1

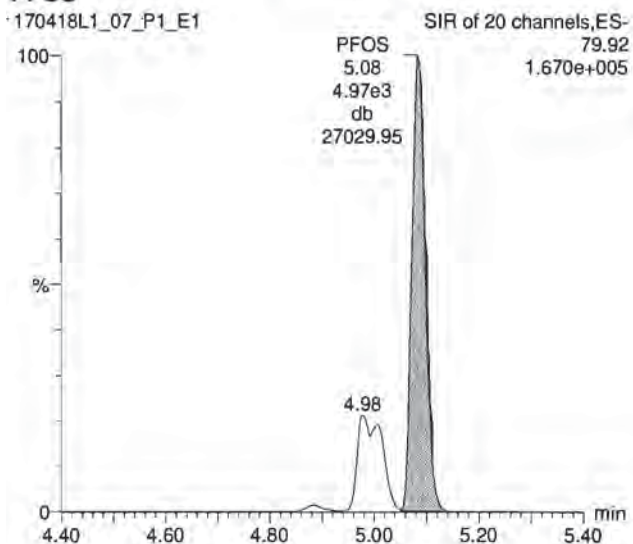


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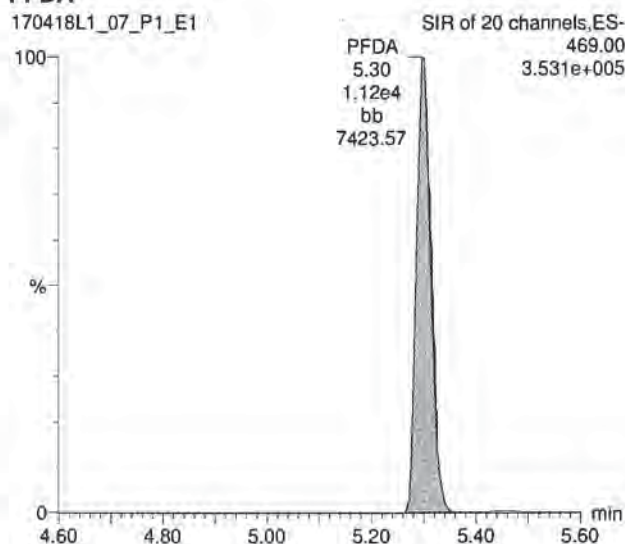
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Lab: ©PE-SCIEX, User: sciex

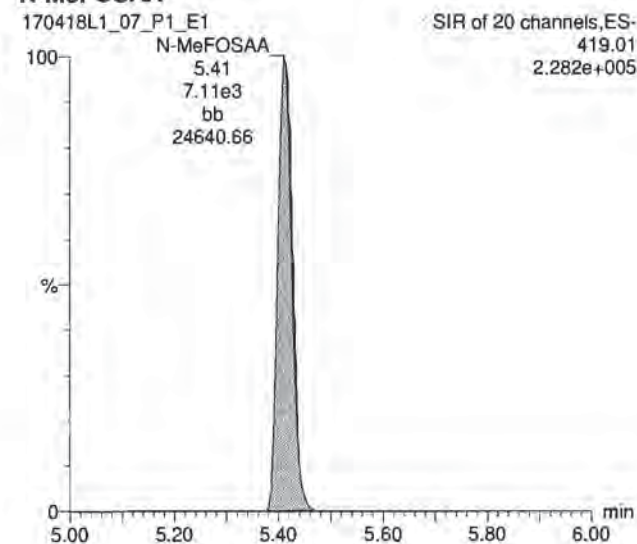
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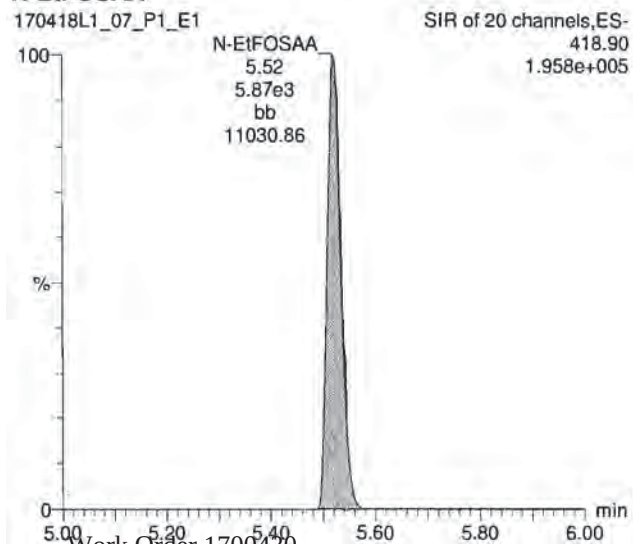
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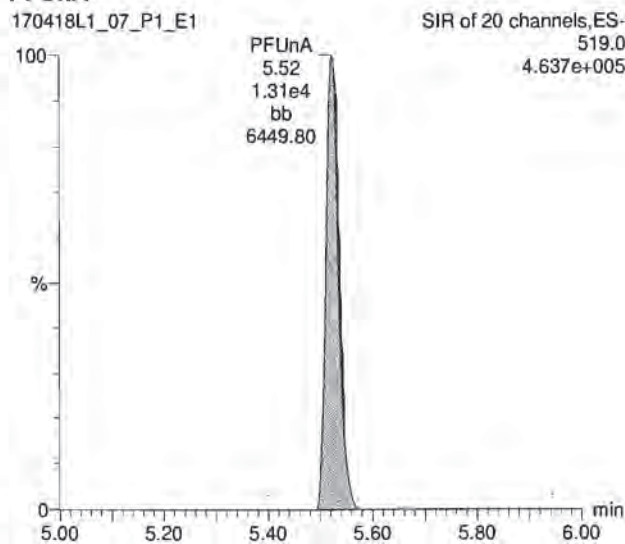
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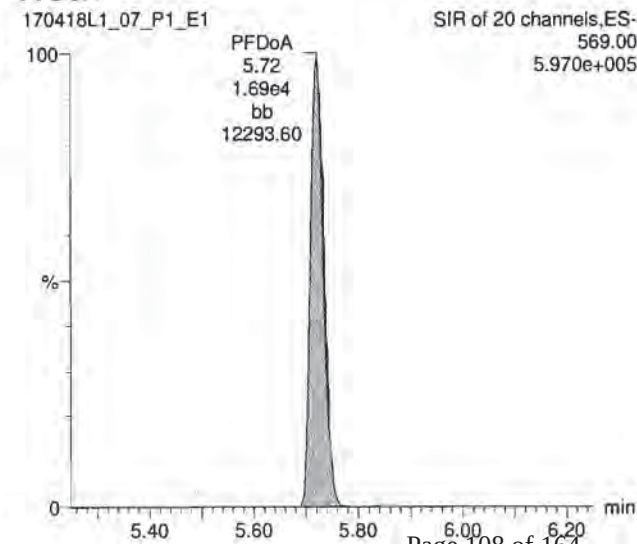
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PFDaA



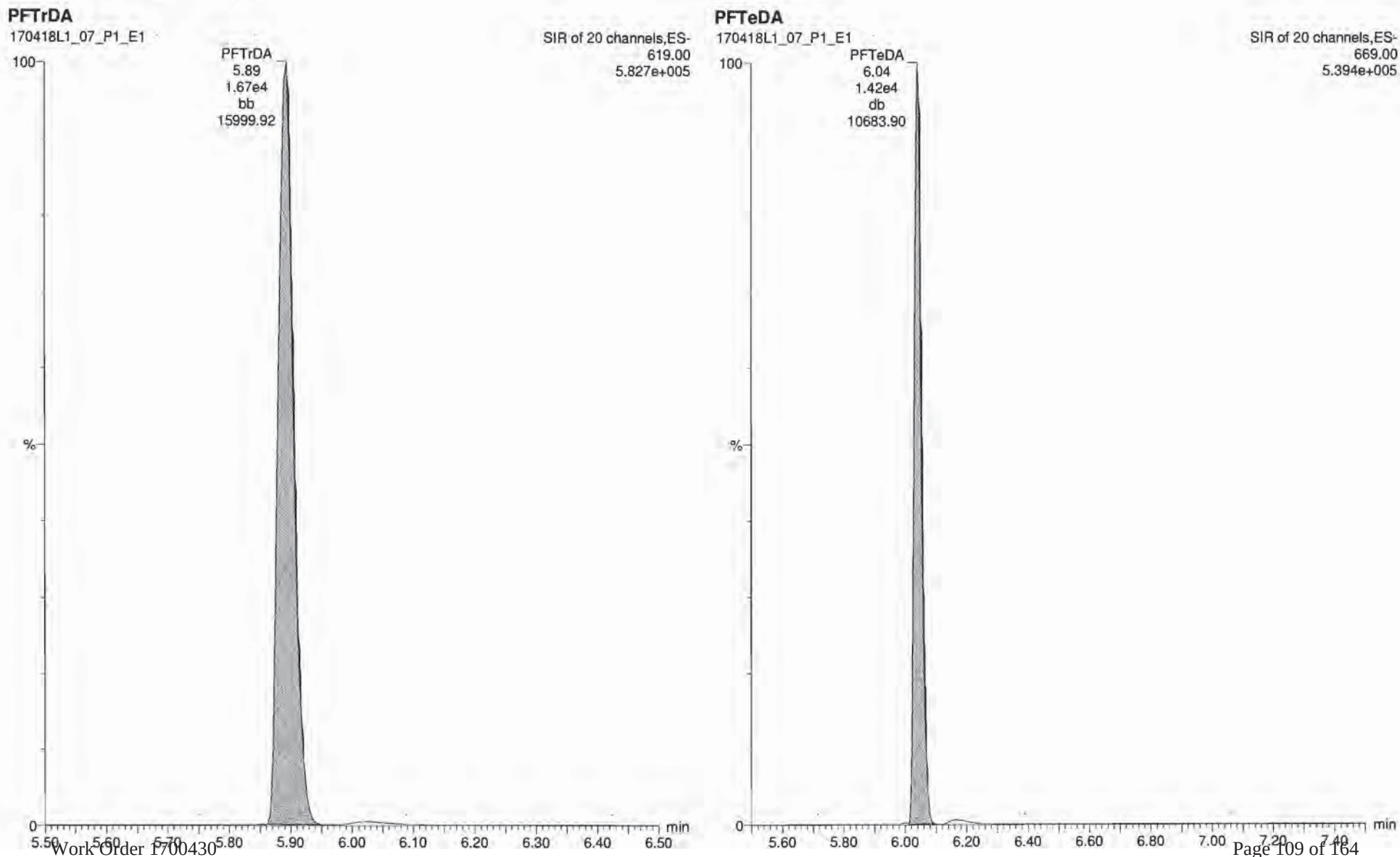
Vista Analytical Laboratory Q1

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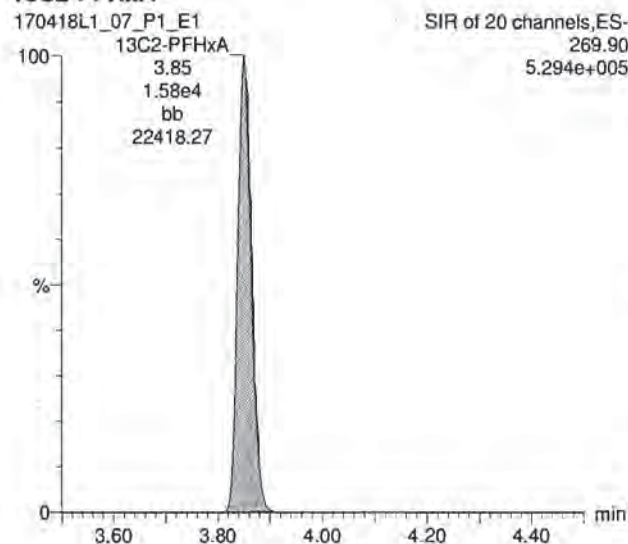


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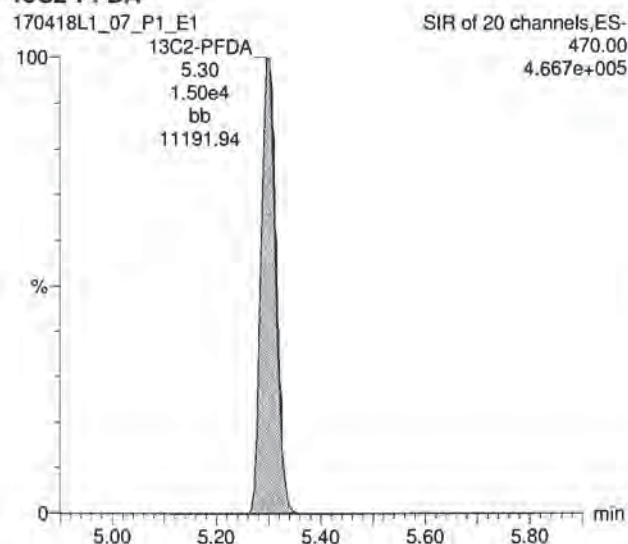
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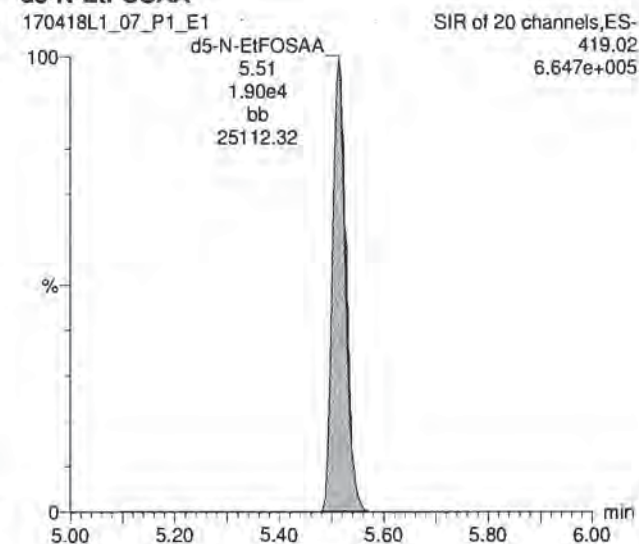
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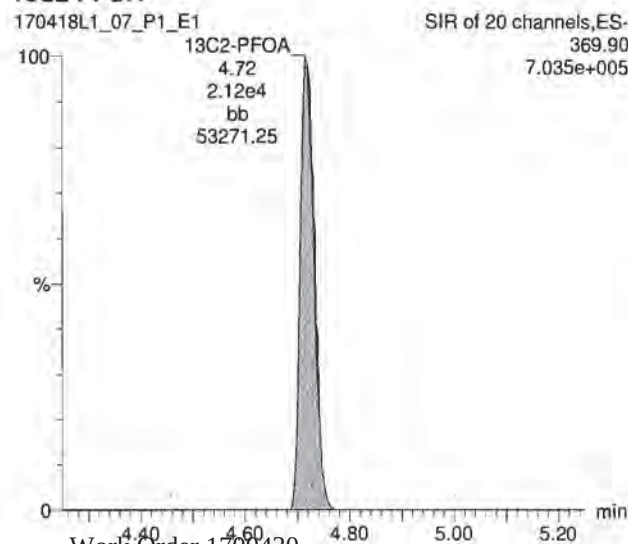
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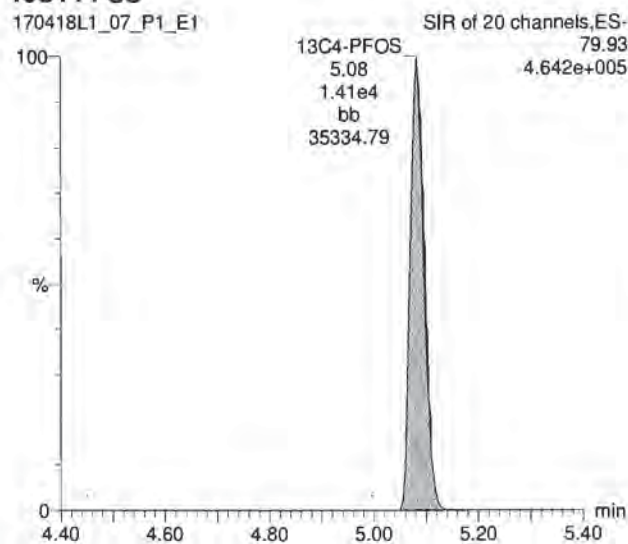
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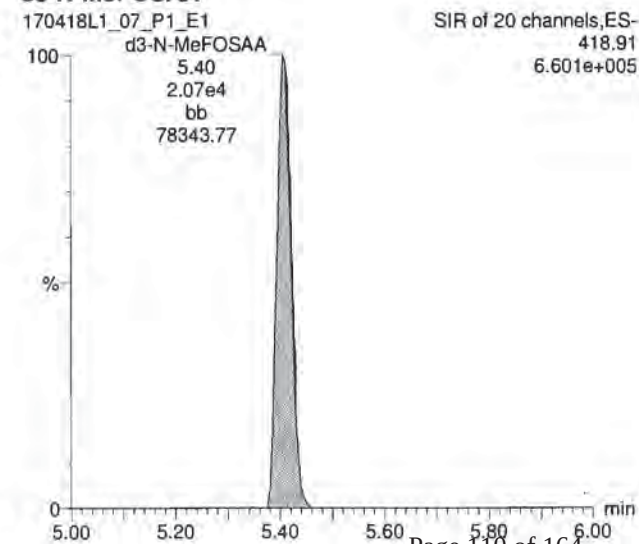
13C2-PFOA



13C4-PFOS



d3-N-MeFOSAA



Vista Analytical Laboratory Q1

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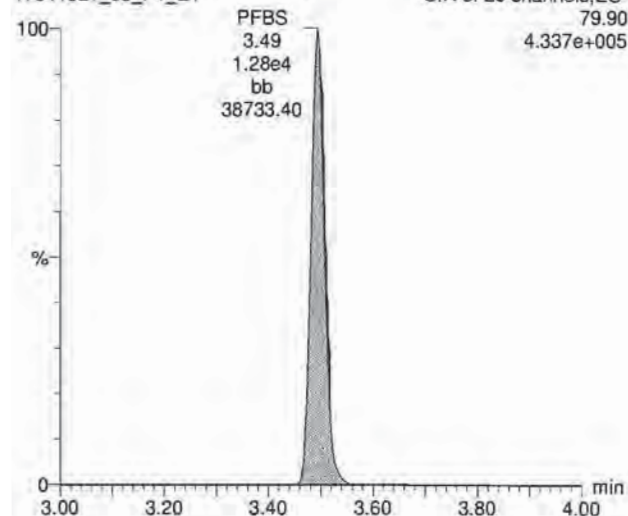
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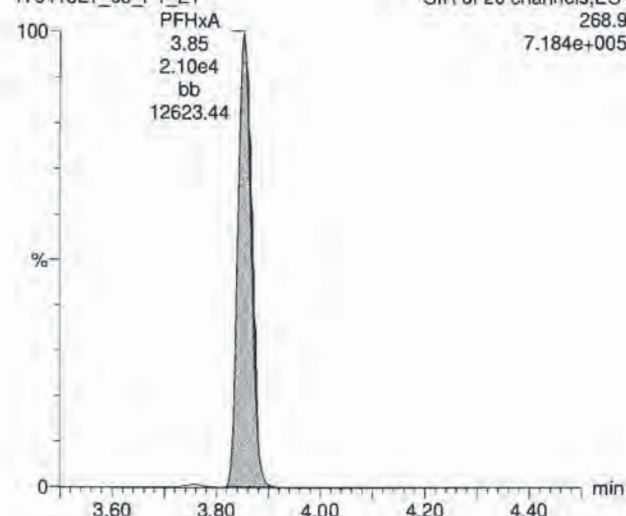
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Lab: ©PE-SCIEX, User: sciex

PFBS

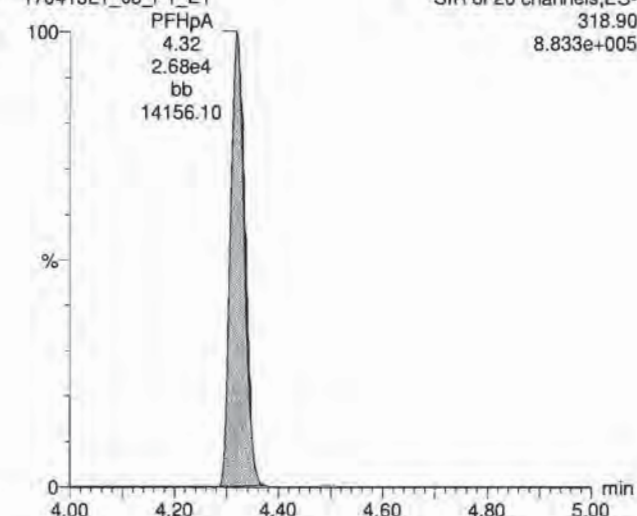
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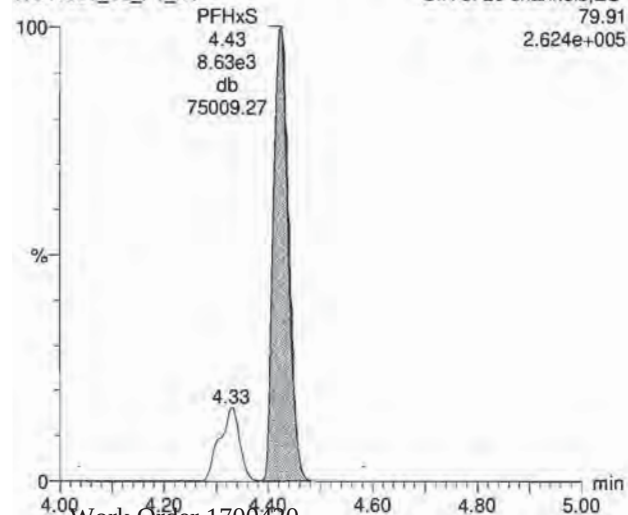
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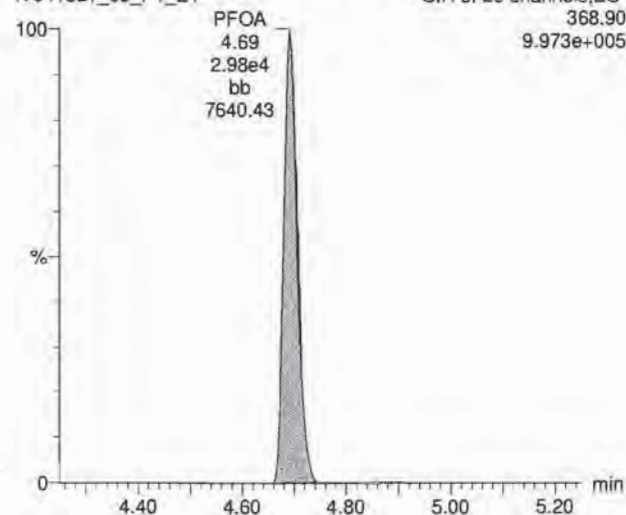
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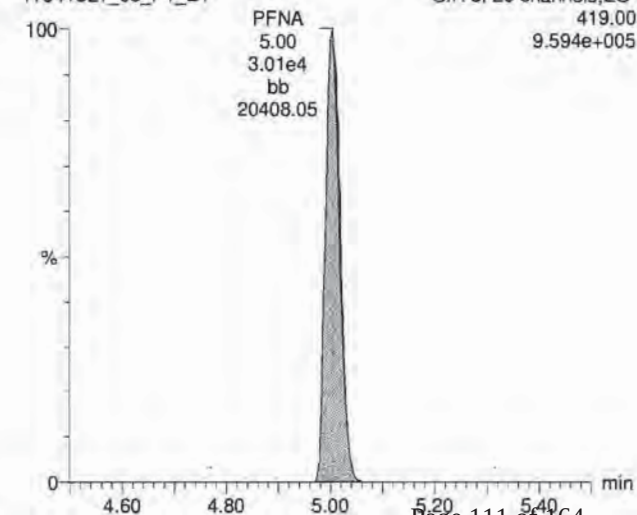
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170418L1_08_P1_E1

**PFNA**

170418L1_08_P1_E1



Vista Analytical Laboratory Q1

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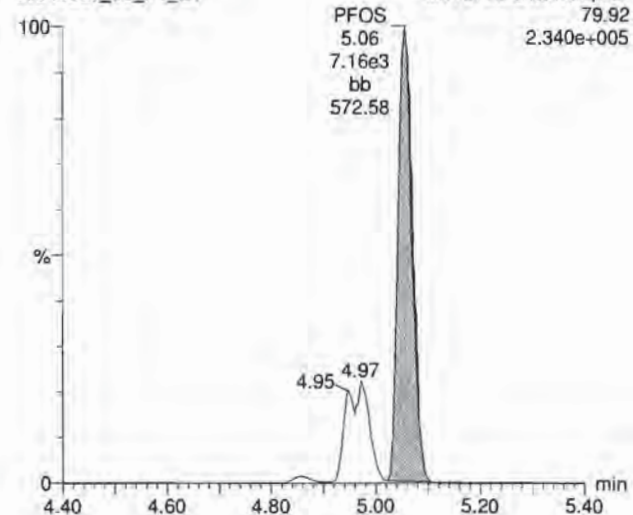
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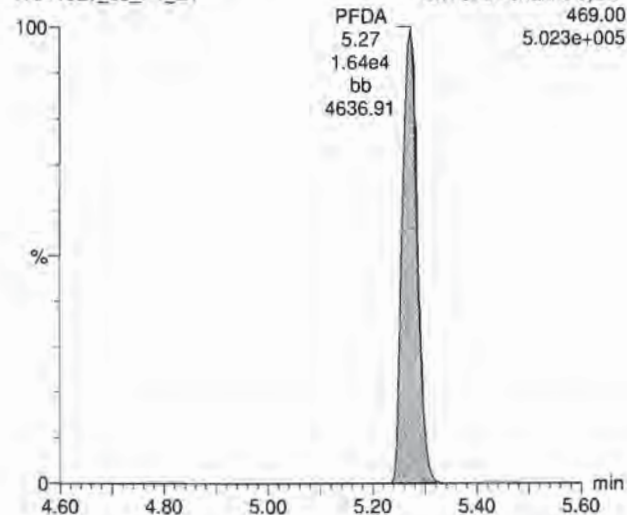
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PFOS

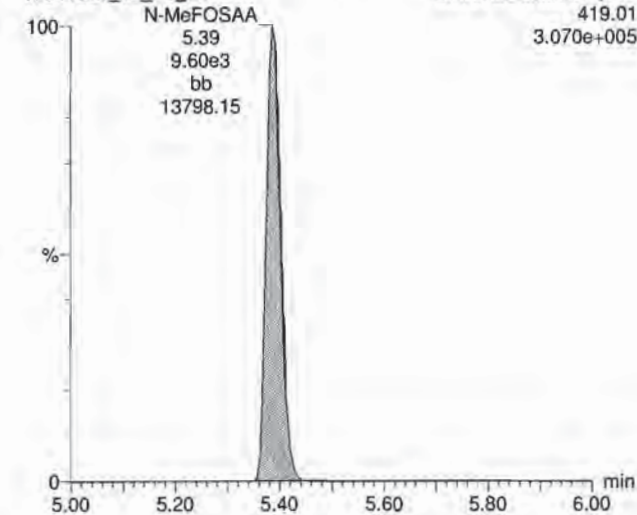
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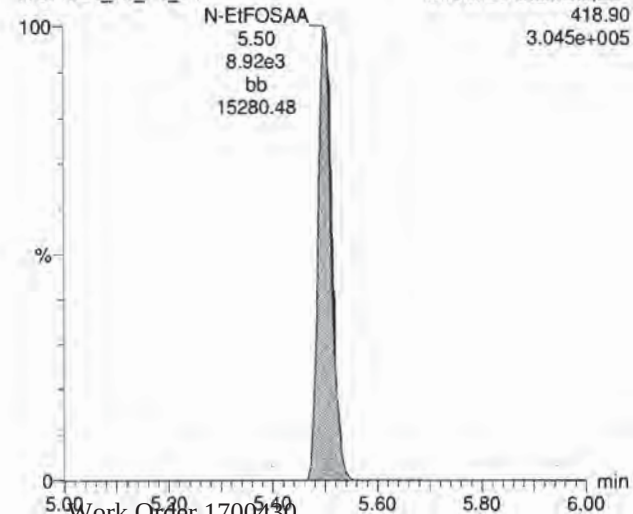
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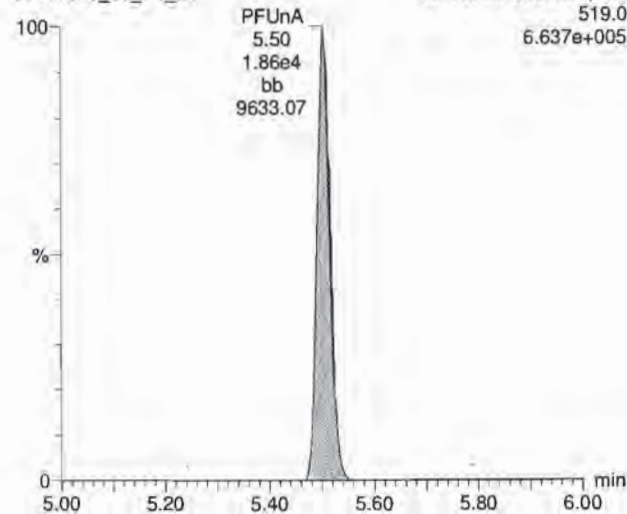
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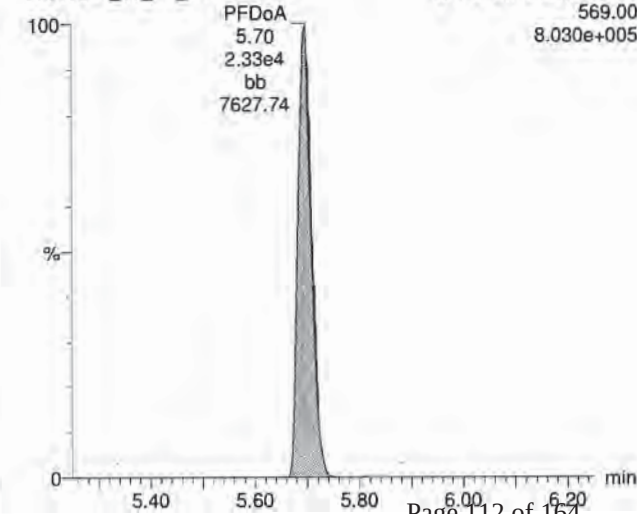
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**PFDaA**

170418L1_08_P1_E1



Vista Analytical Laboratory Q1

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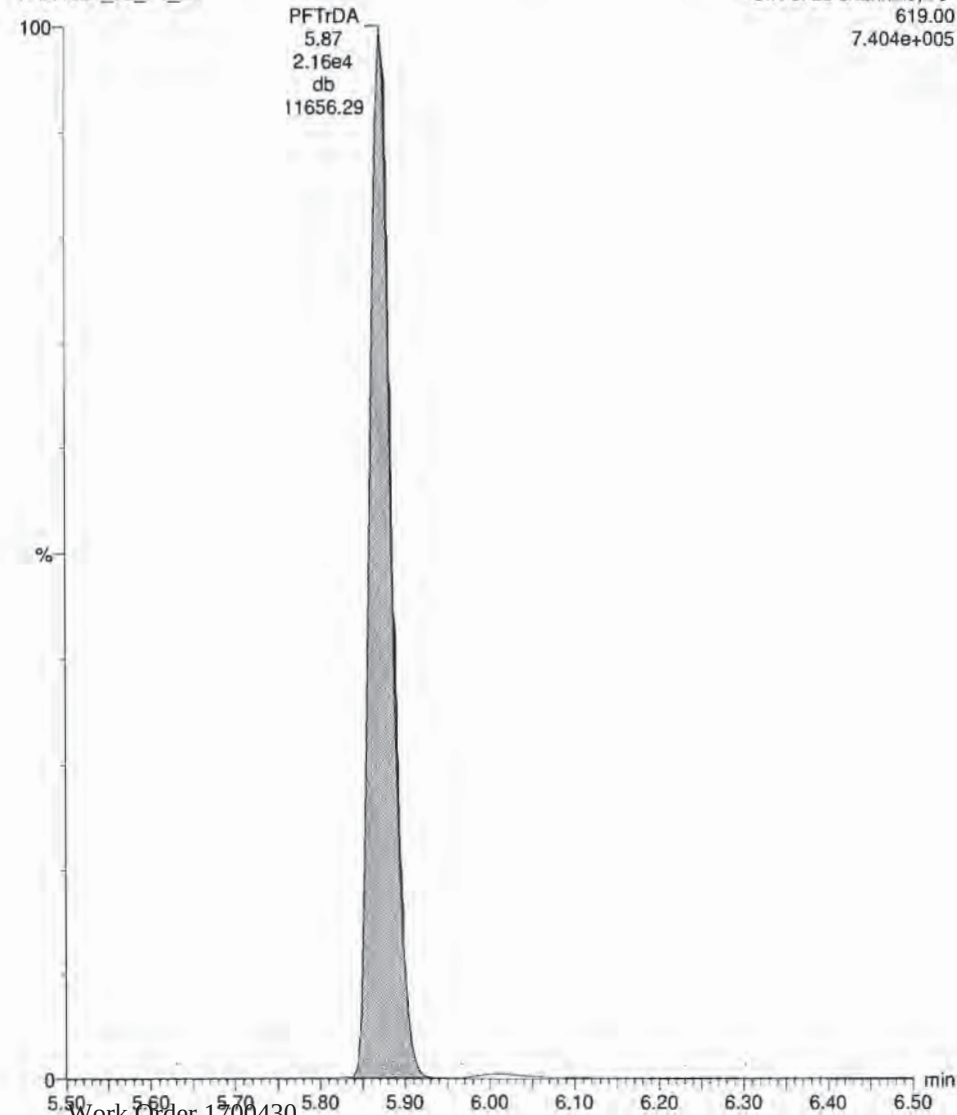
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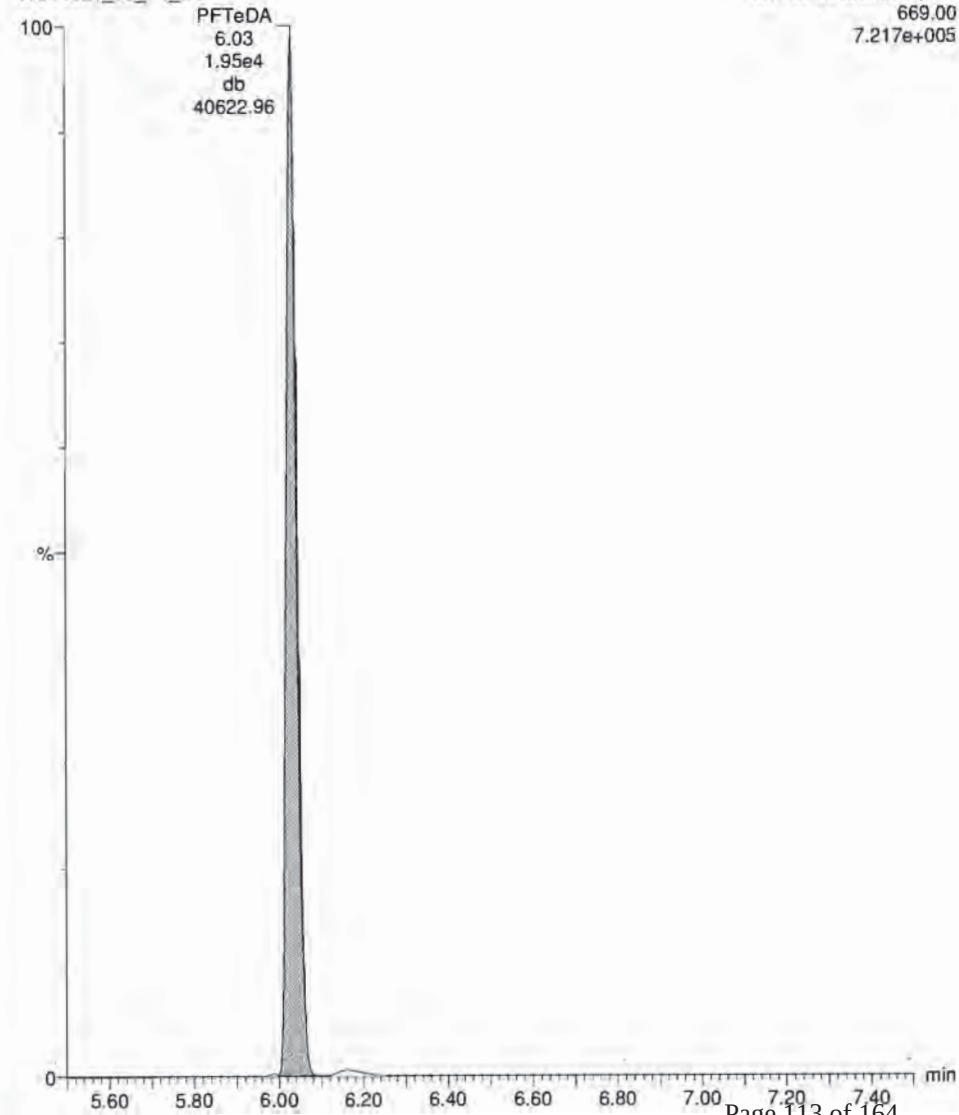
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PFTeDA

170418L1_08_P1_E1



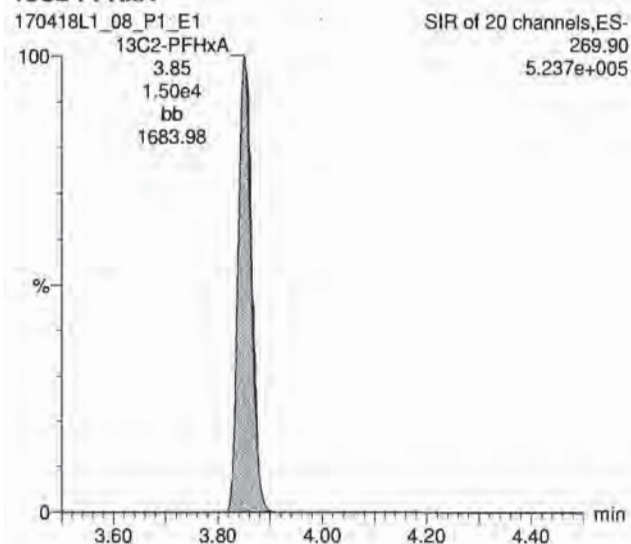
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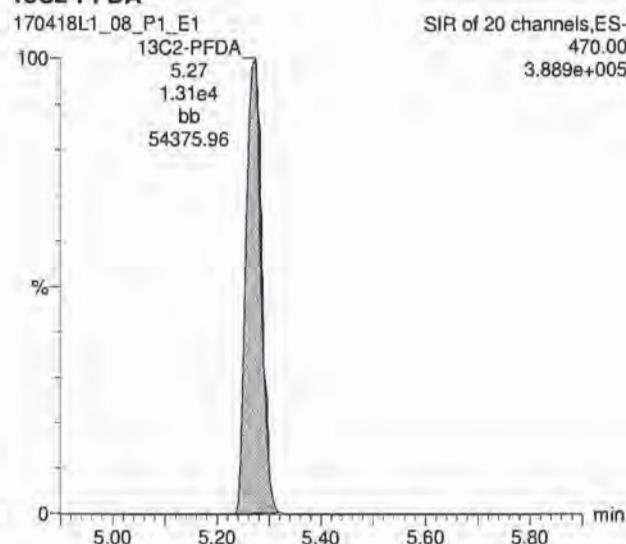
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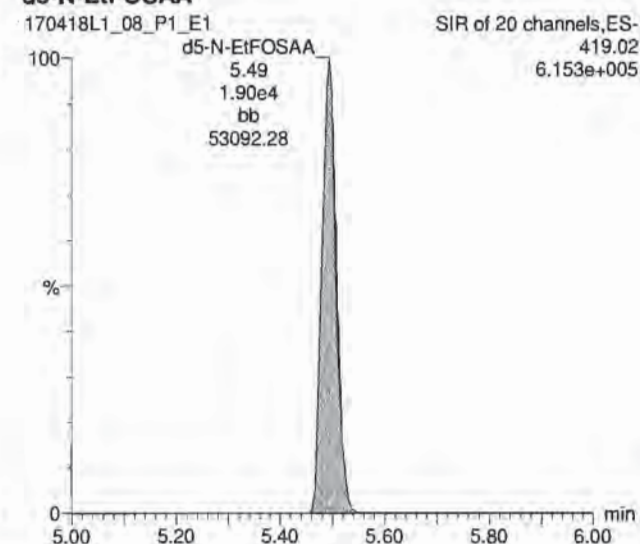
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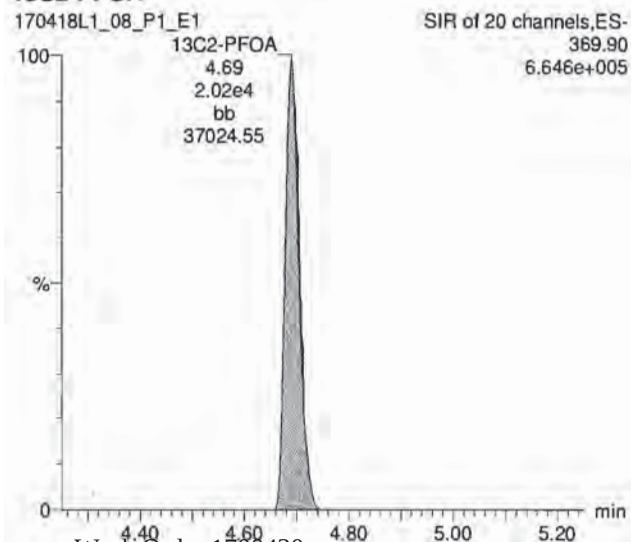
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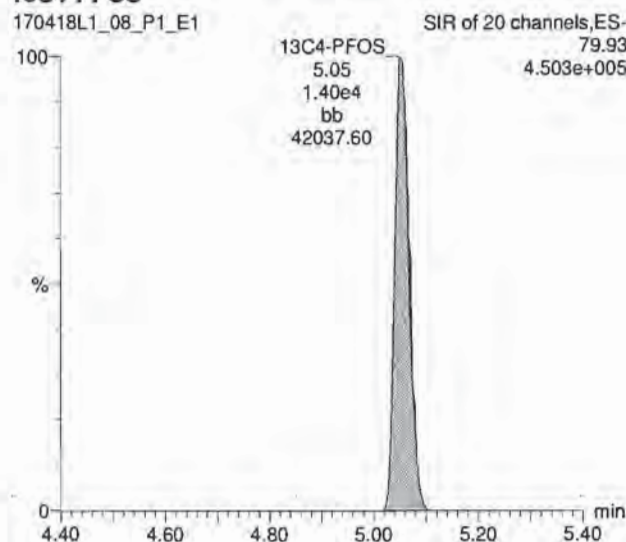
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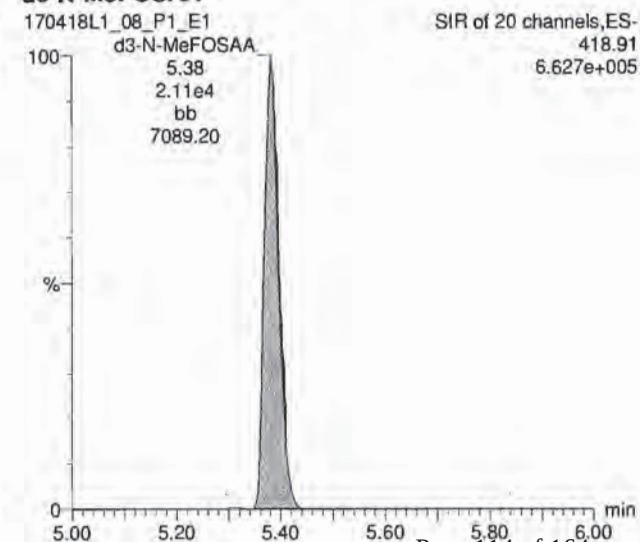
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13C4-PFOS



d3-N-MeFOSAA



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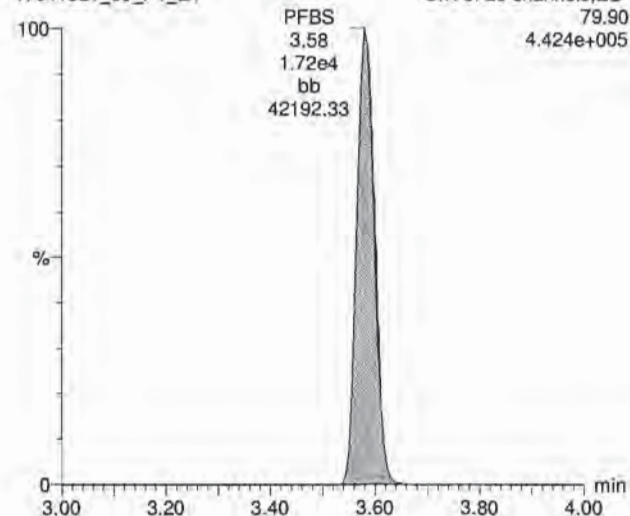
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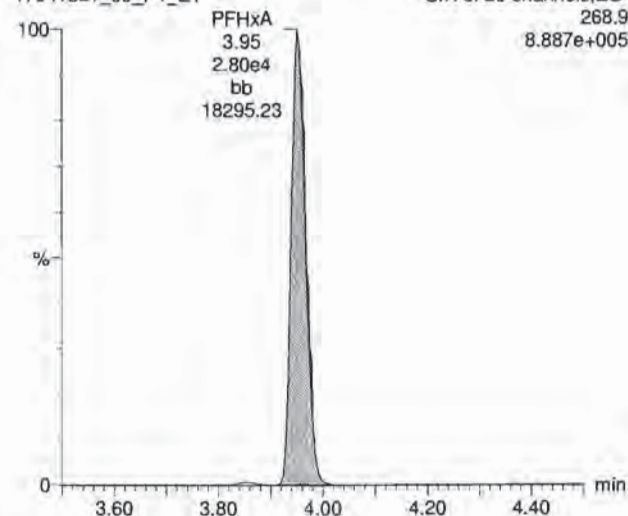
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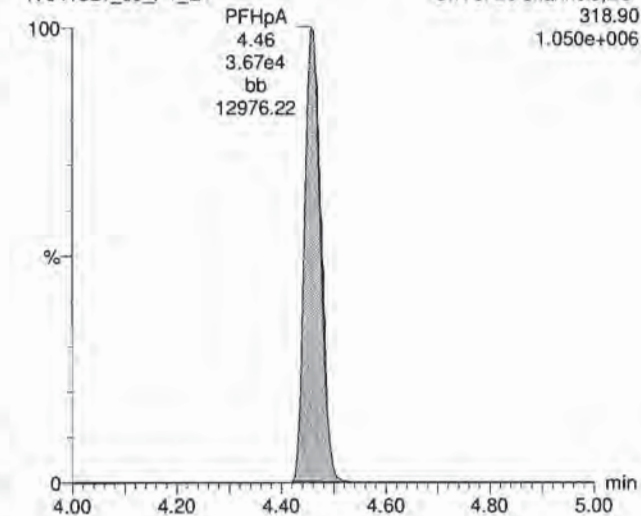
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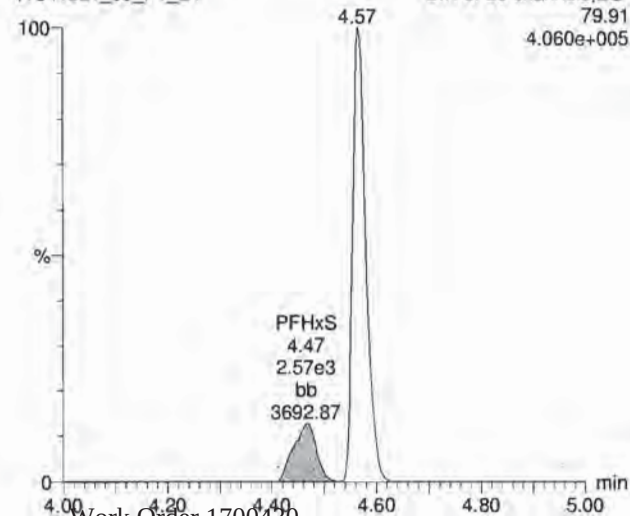
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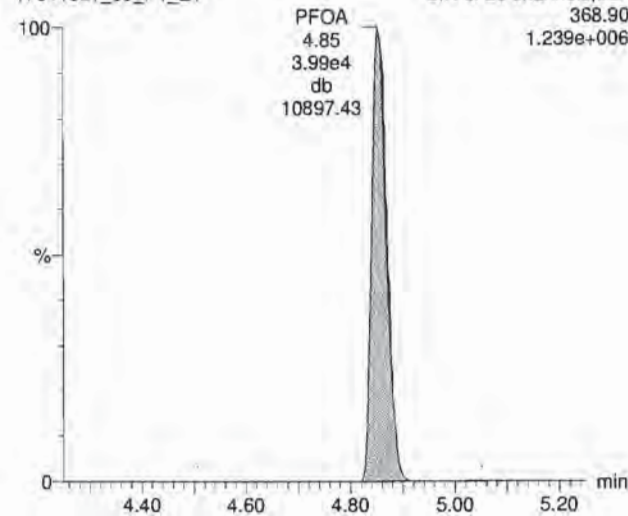
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170418L1_09_P1_E1



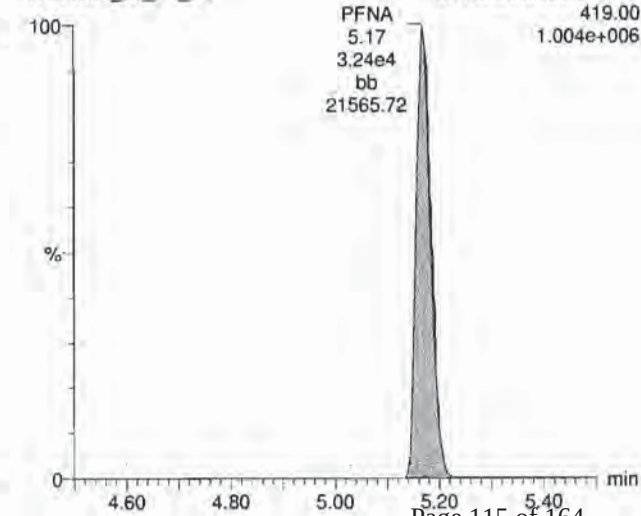
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PFNA

170418L1_09_P1_E1



Vista Analytical Laboratory Q1

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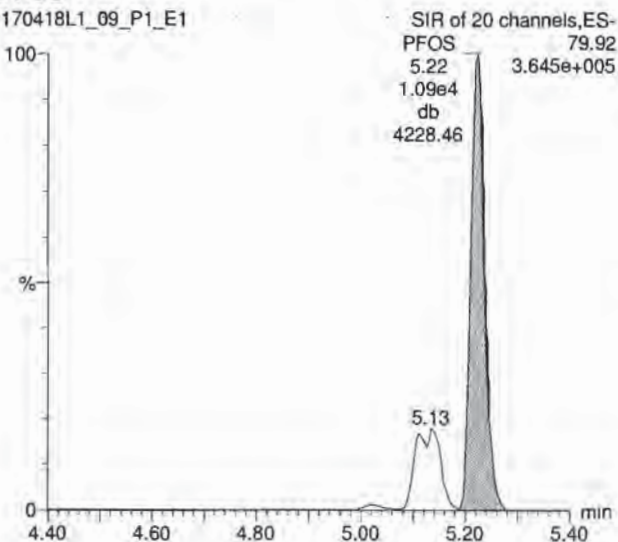
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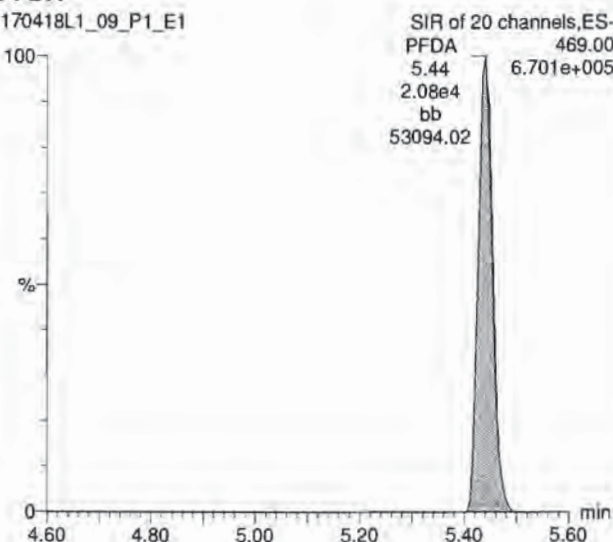
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PFOS

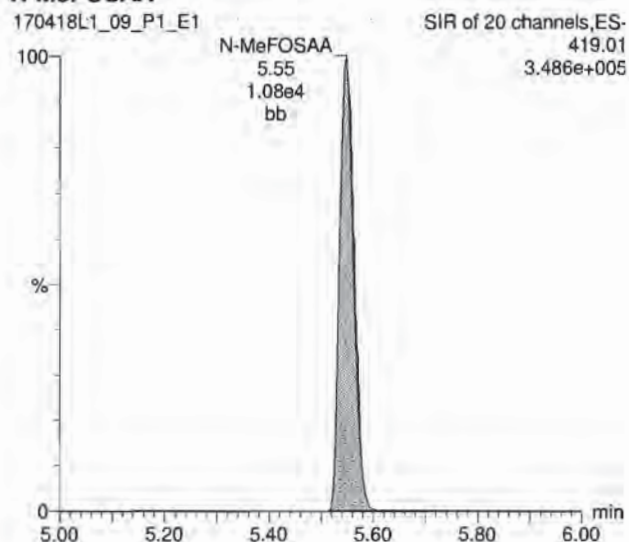
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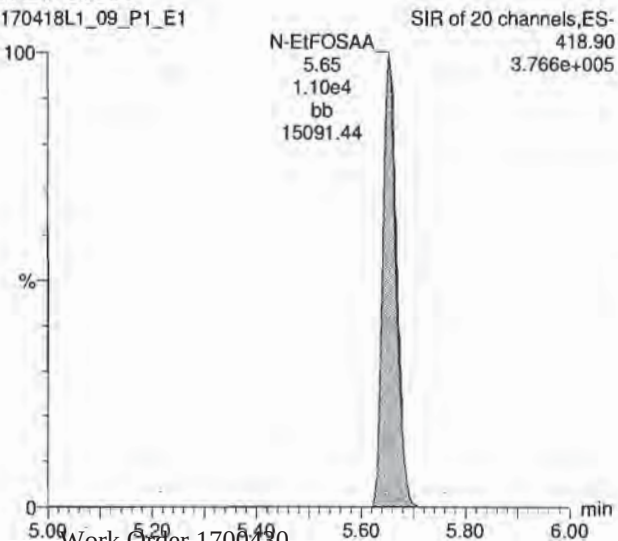
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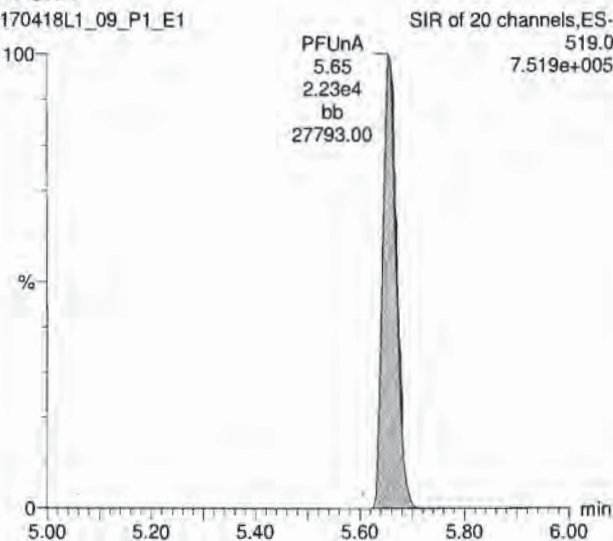
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**N-EtFOSAA**

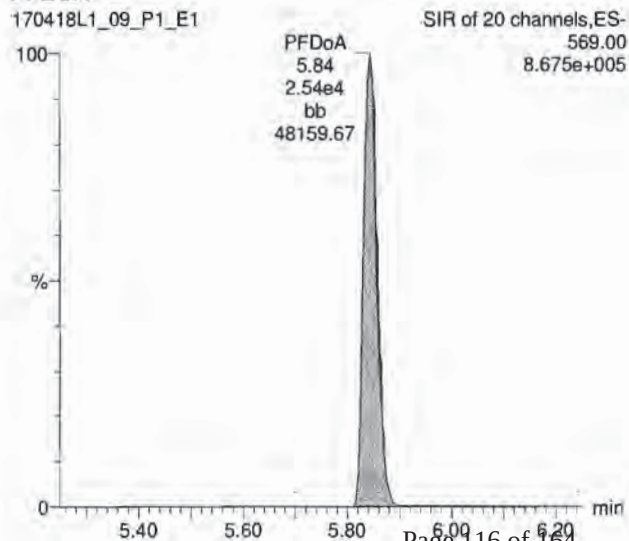
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**PFUnA**

170418L1_09_P1_E1

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170418L1_09_P1_E1



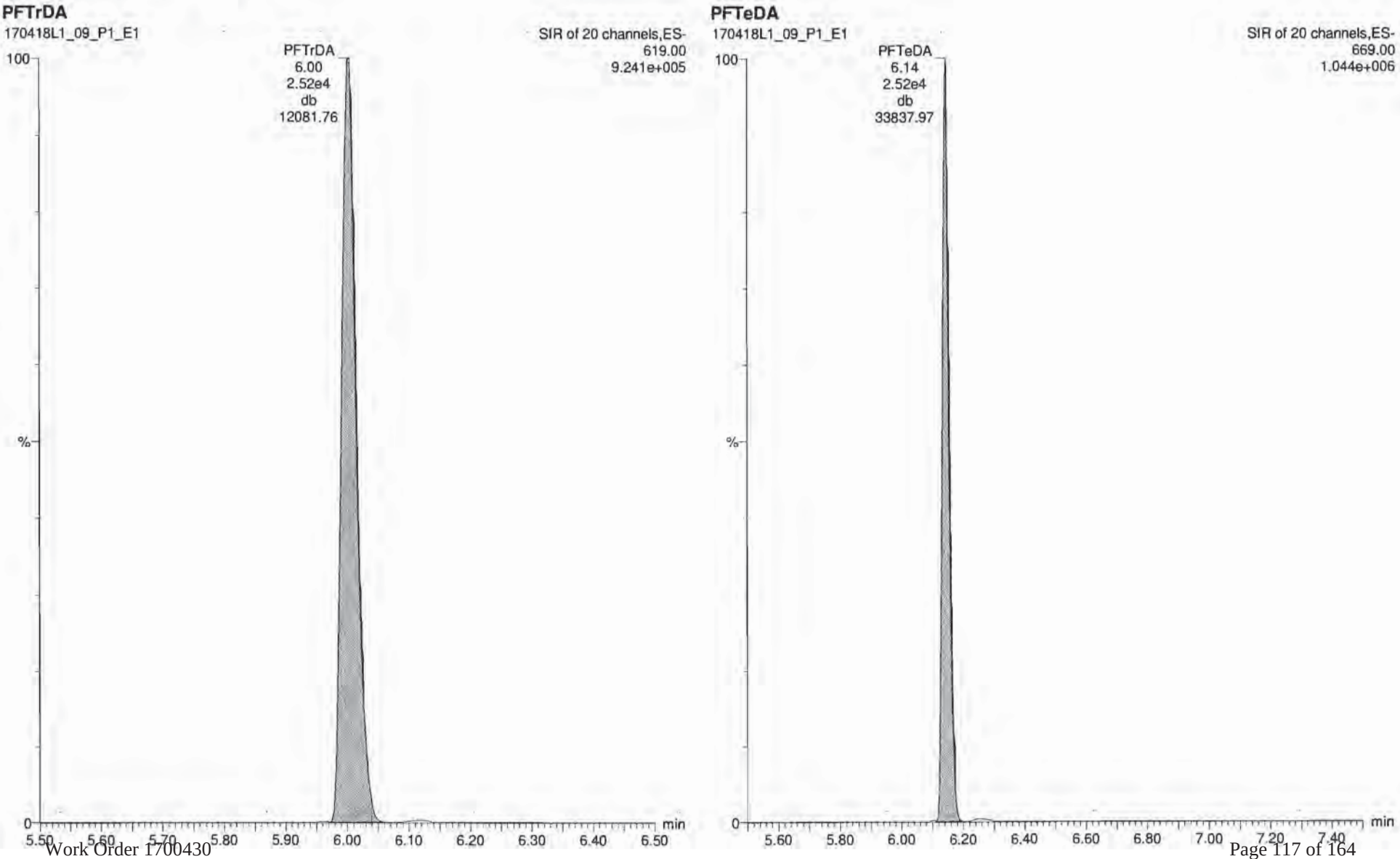
Vista Analytical Laboratory Q1

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Vista Analytical Laboratory Q1

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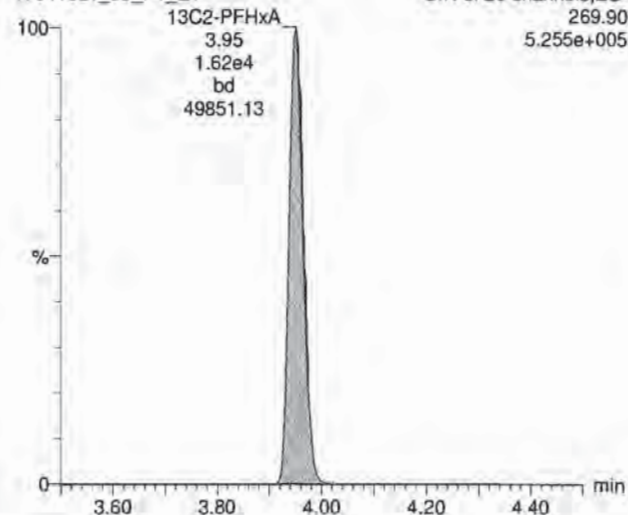
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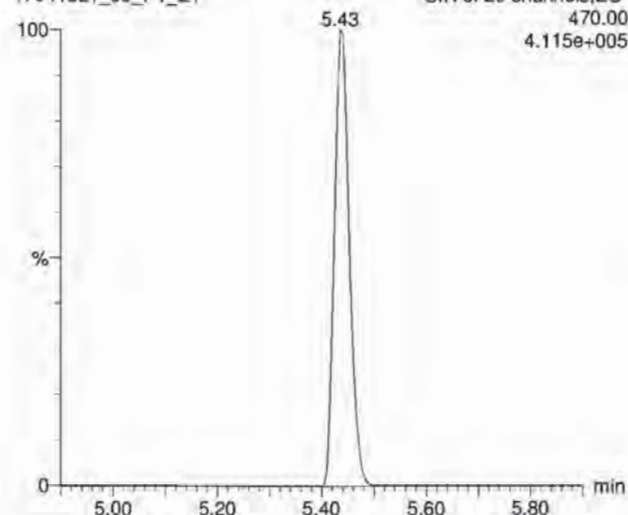
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Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

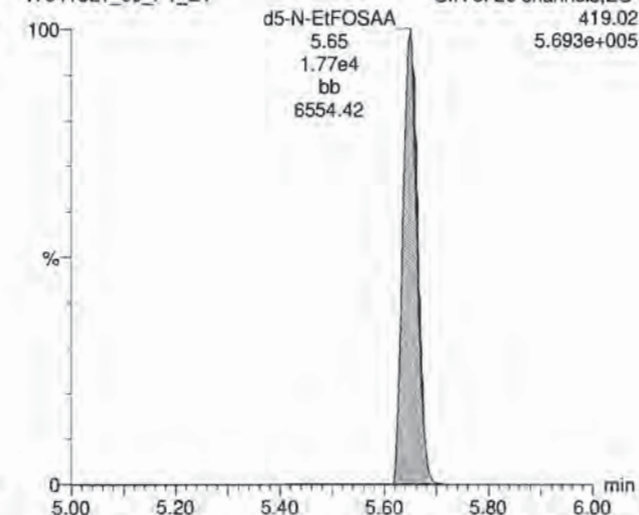
170418L1_09_P1_E1

**13C2-PFDA**

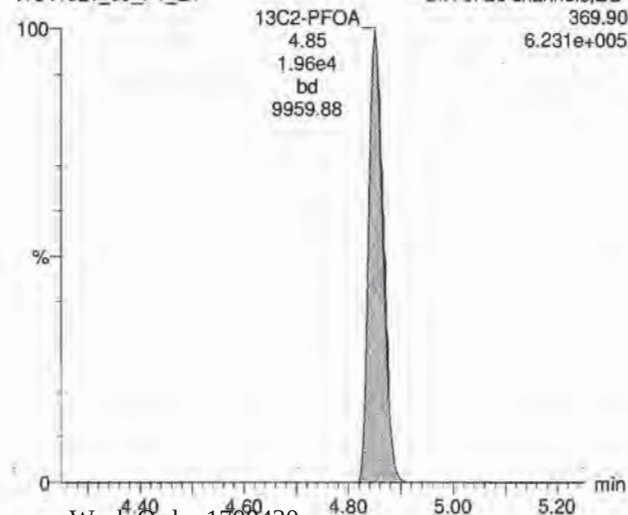
170418L1_09_P1_E1

**d5-N-EtFOSAA**

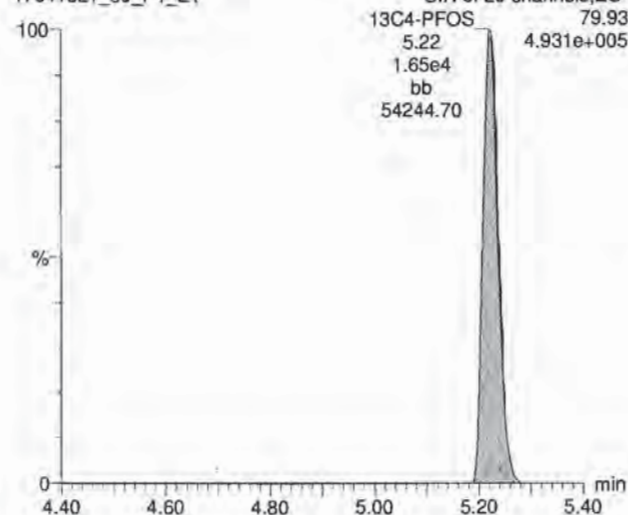
170418L1_09_P1_E1

**13C2-PFOA**

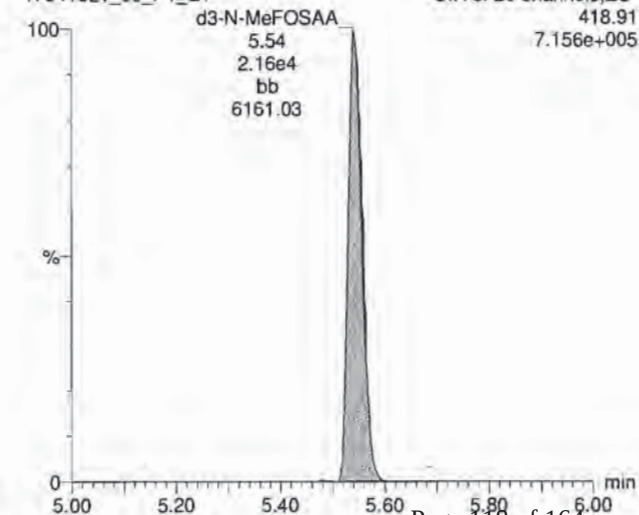
170418L1_09_P1_E1

**13C4-PFOS**

170418L1_09_P1_E1

**d3-N-MeFOSAA**

170418L1_09_P1_E1



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

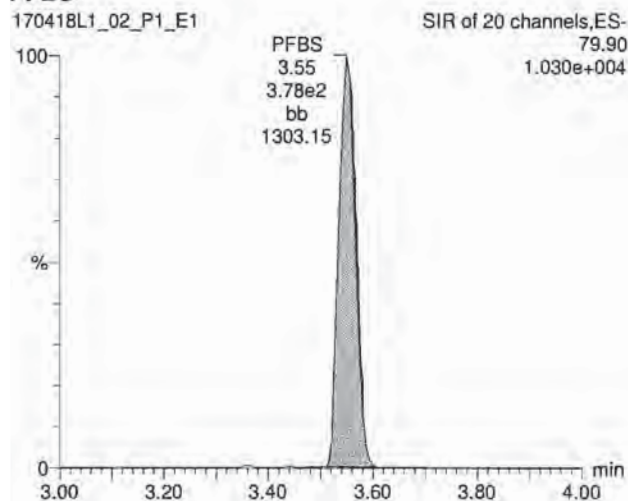
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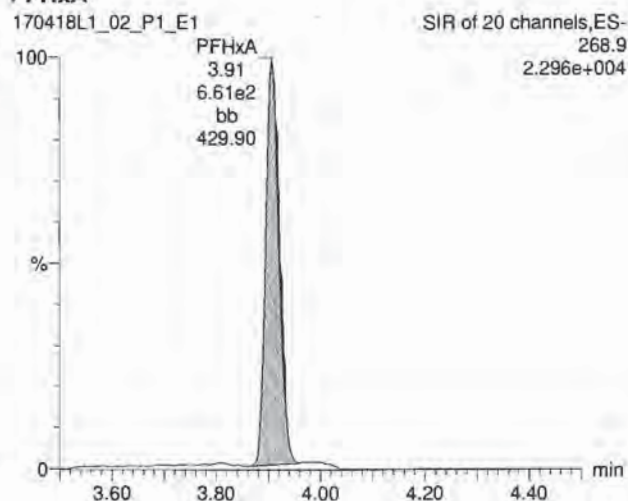
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ID: ST170418L1-1 537 DW CS(-3) 17D1811, Description: 537 DW CS(-3) 17D1811, Name: 170418L1_02.wiff, Date: 18-Apr-2017, Time: 17:00:18, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

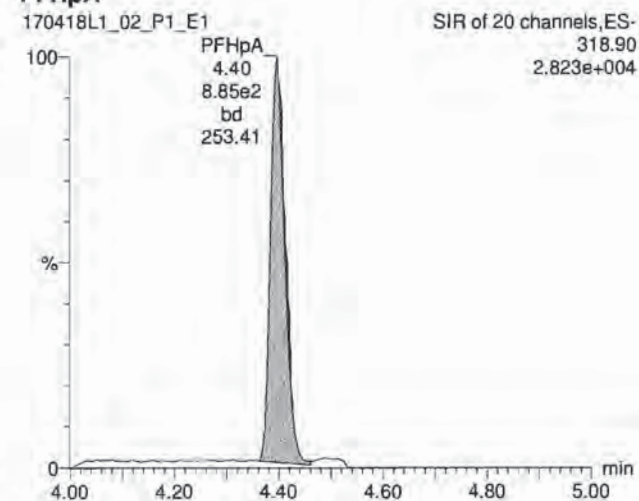
PFBS



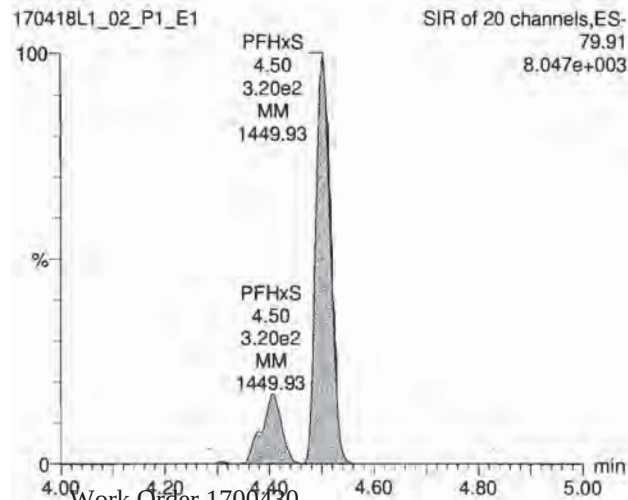
PFHxA



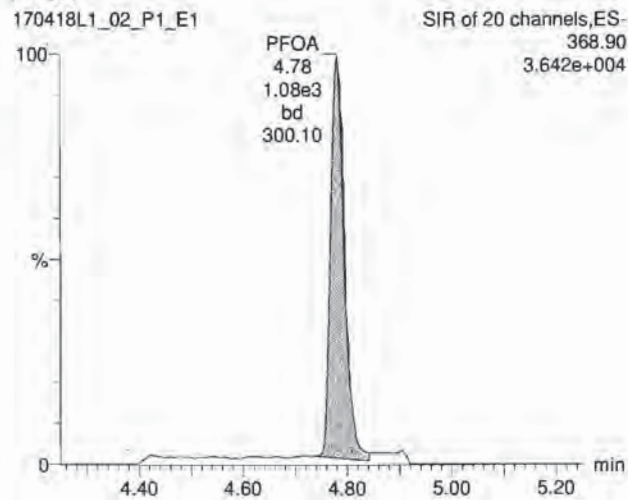
PFHpA



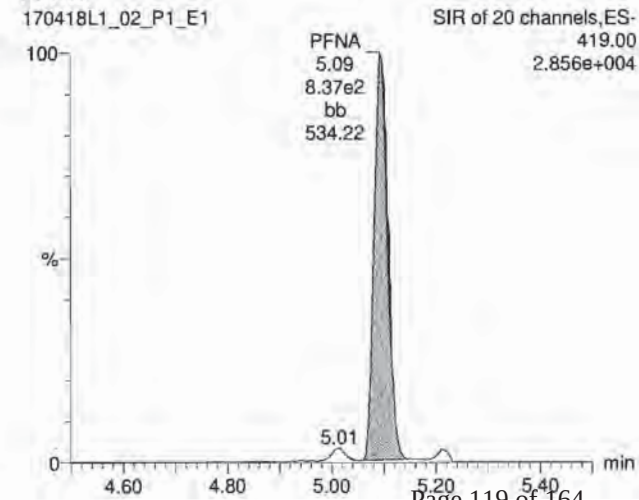
PFHxS



PFOA



PFNA



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

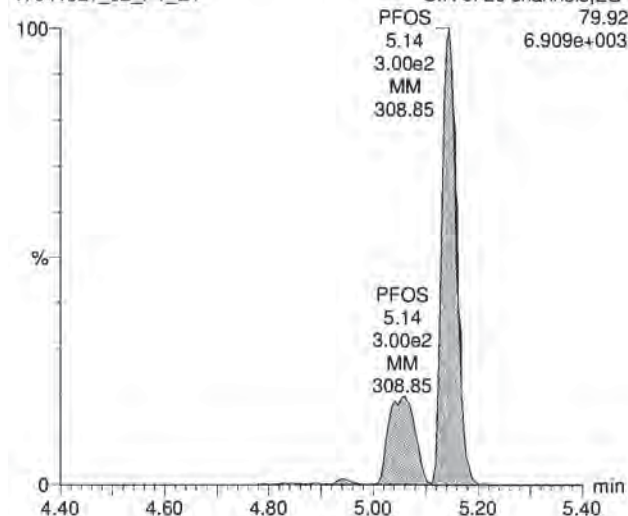
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

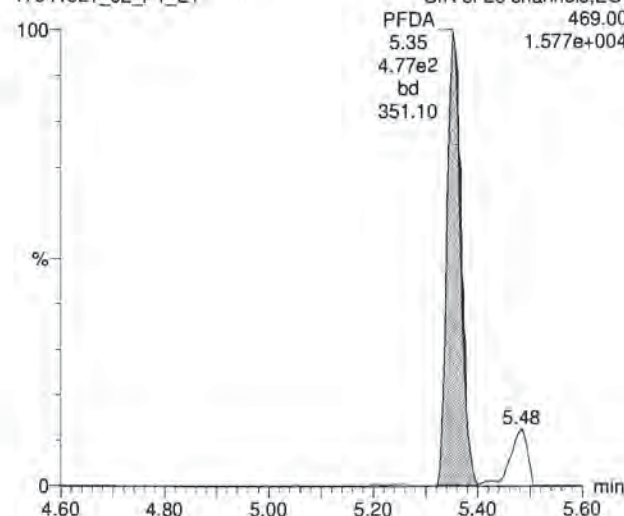
PFOS

170418L1_02_P1_E1



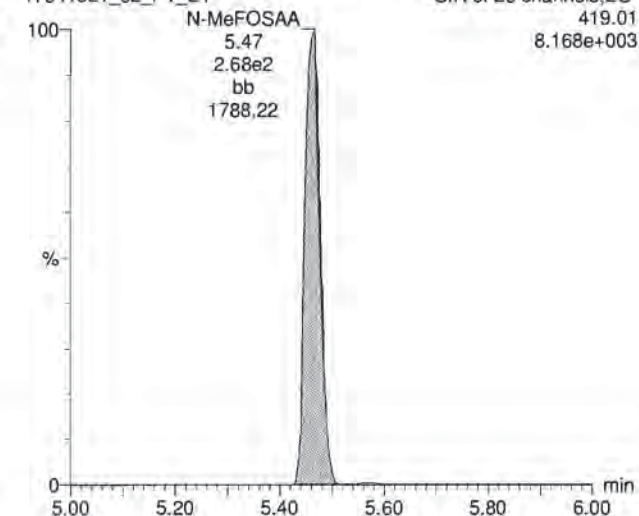
PFDA

170418L1_02_P1_E1



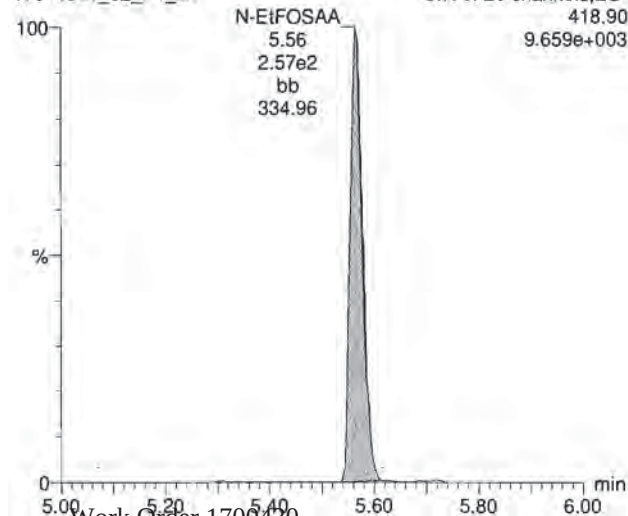
N-MeFOSAA

170418L1_02_P1_E1



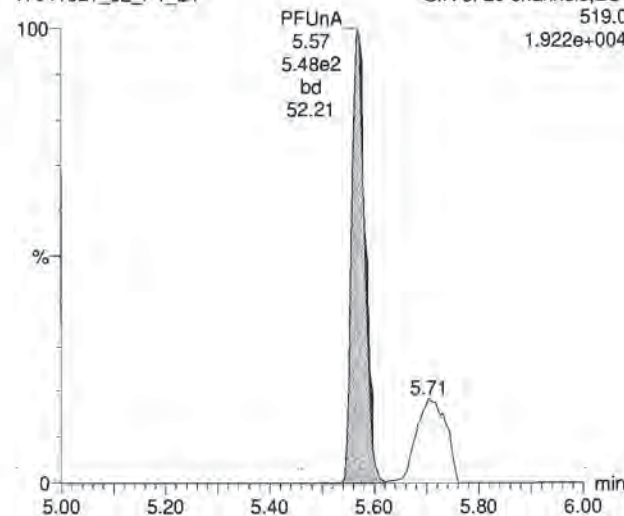
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170418L1_02_P1_E1



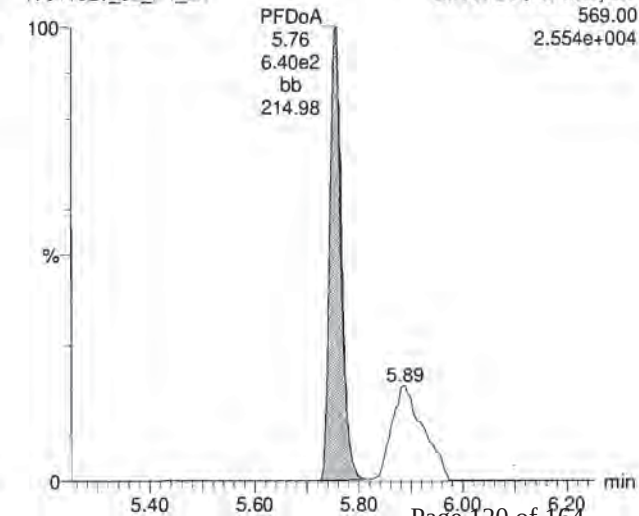
PFUnA

170418L1_02_P1_E1



PFDaA

170418L1_02_P1_E1



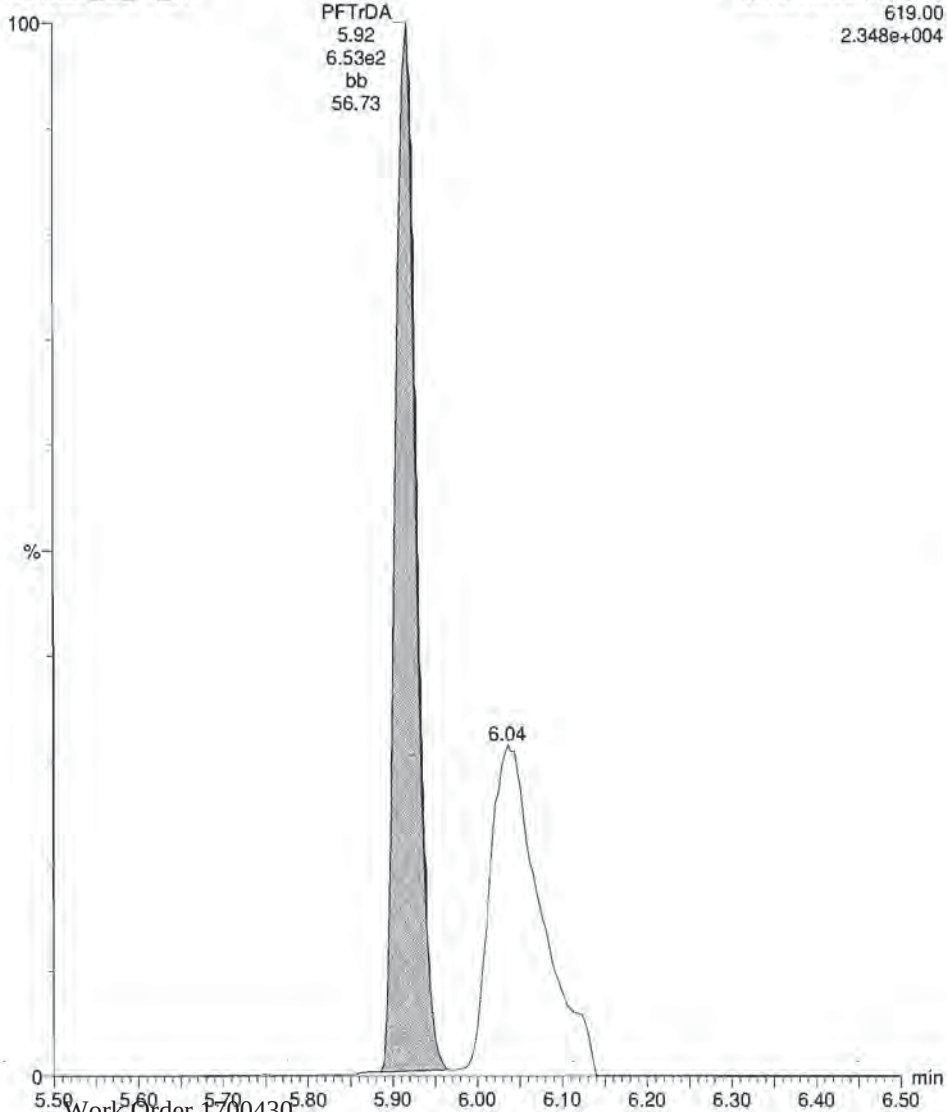
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Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-1 537 DW CS(-3) 17D1811, Description: 537 DW CS(-3) 17D1811, Name: 170418L1_02.wiff, Date: 18-Apr-2017, Time: 17:00:18, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

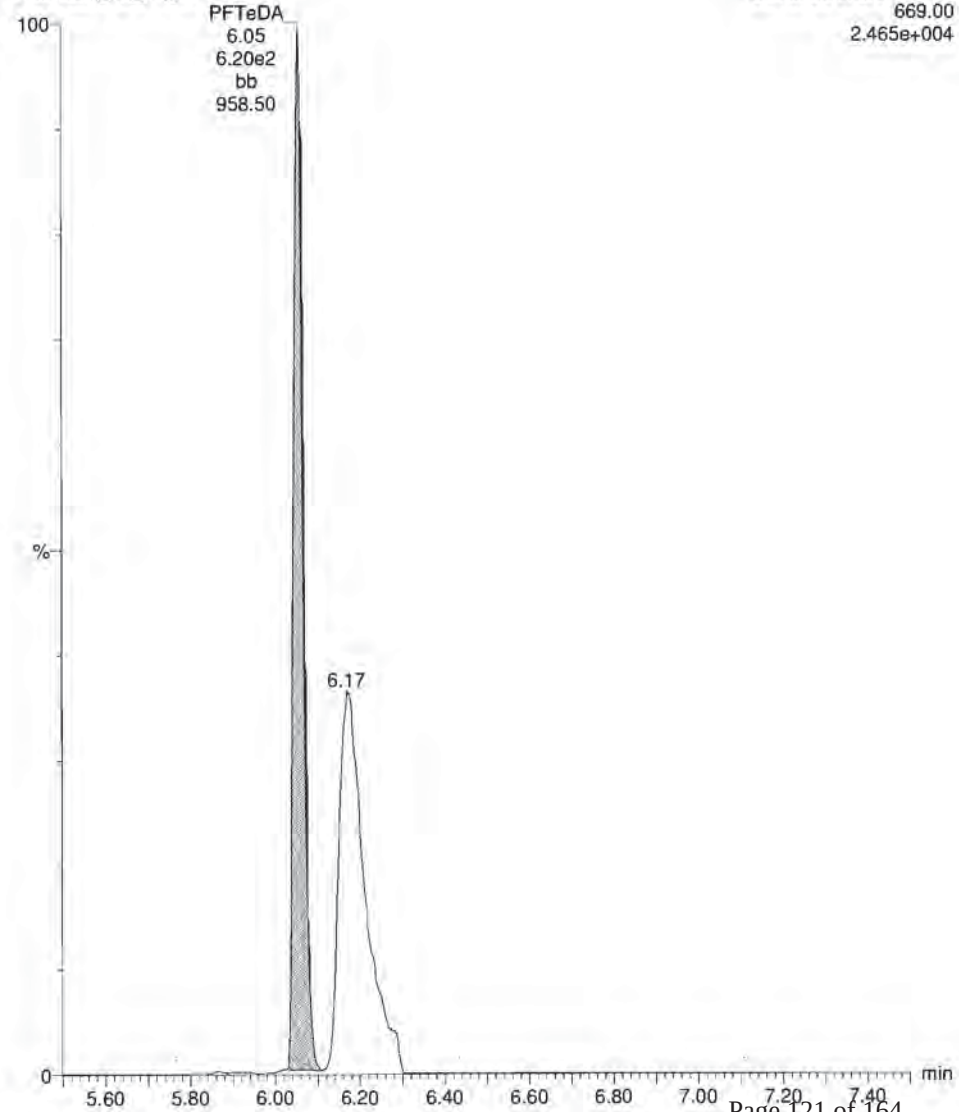
PFTrDA

170418L1_02_P1_E1



PFTeDA

170418L1_02_P1_E1



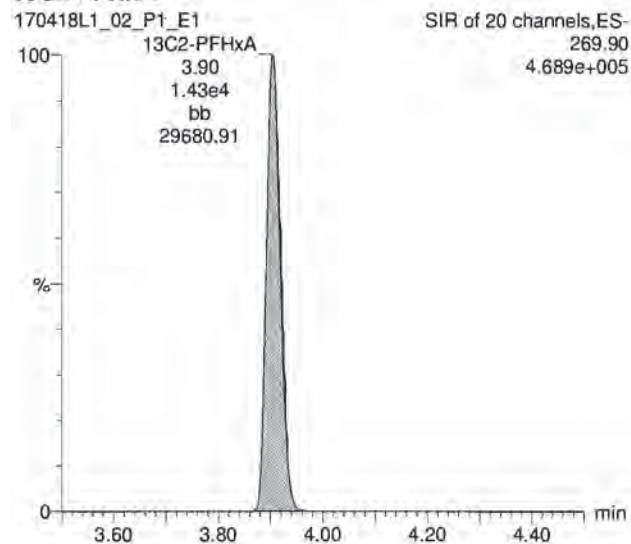
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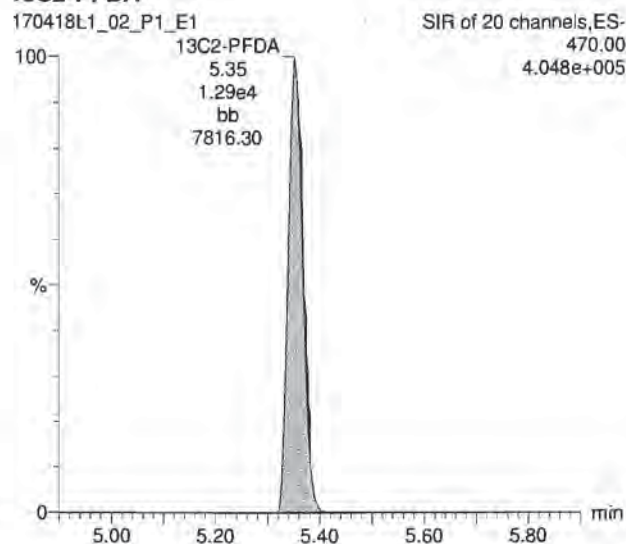
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

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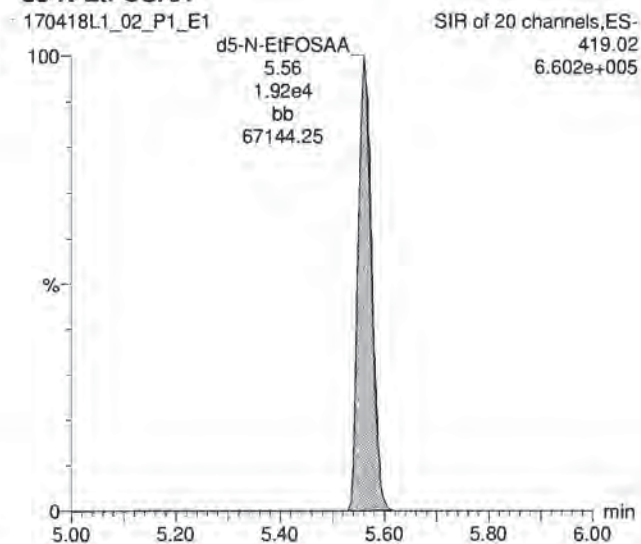
13C2-PFHxA



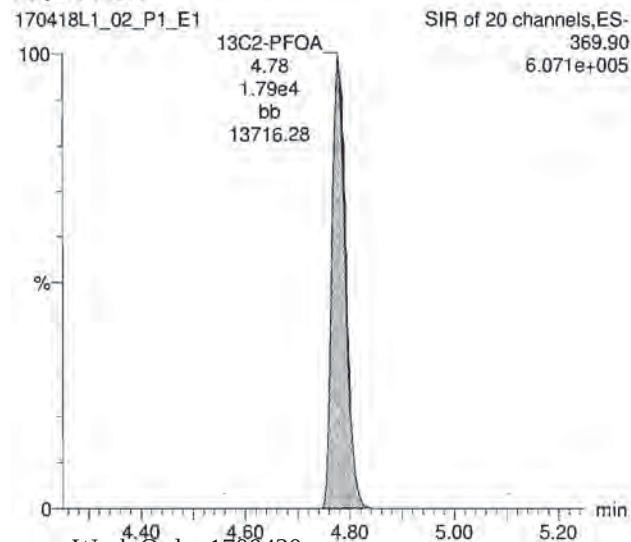
13C2-PFDA



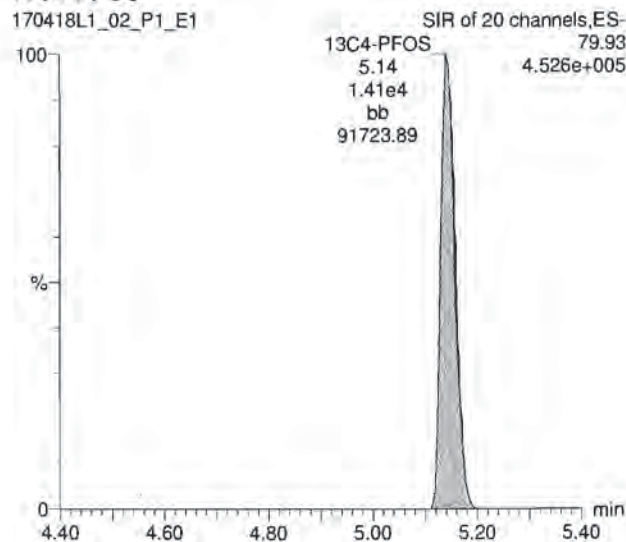
d5-N-EtFOSAA



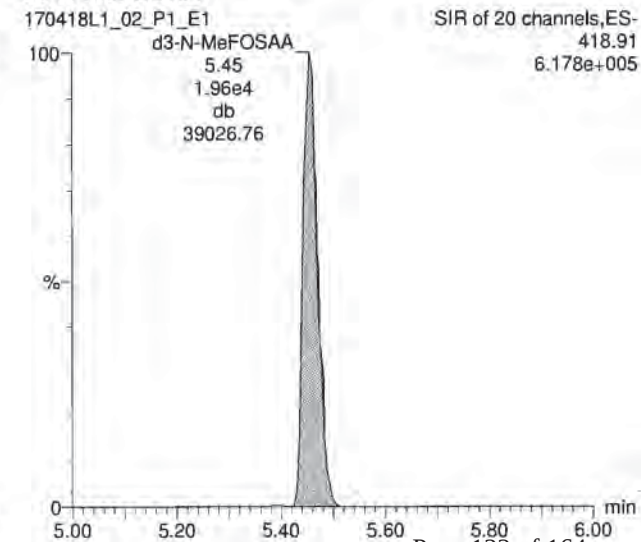
13C2-PFOA



13C4-PFOS



d3-N-MeFOSAA



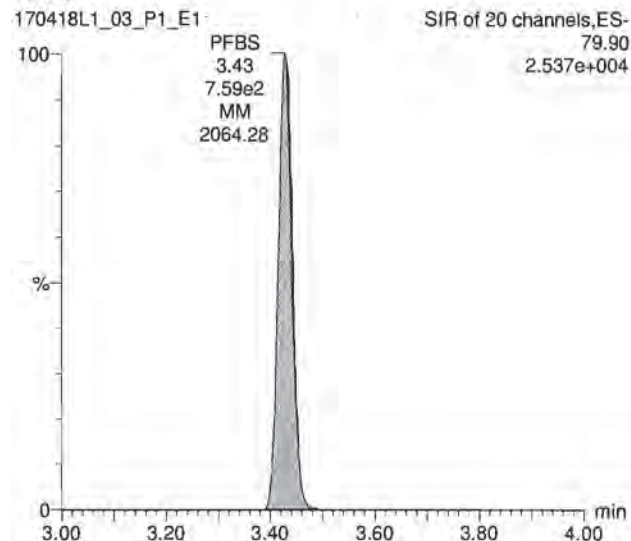
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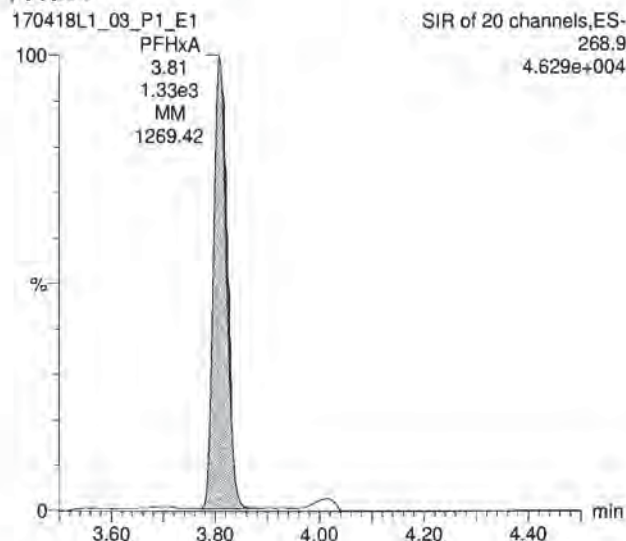
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Lab: ©PE-SCIEX, User: sciex

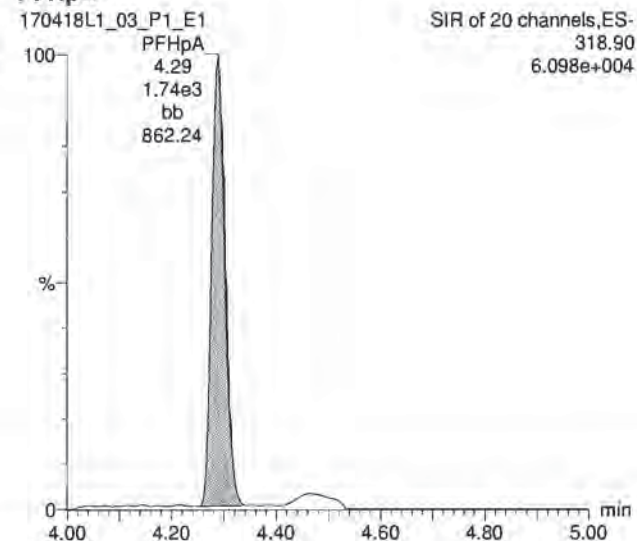
PFBS



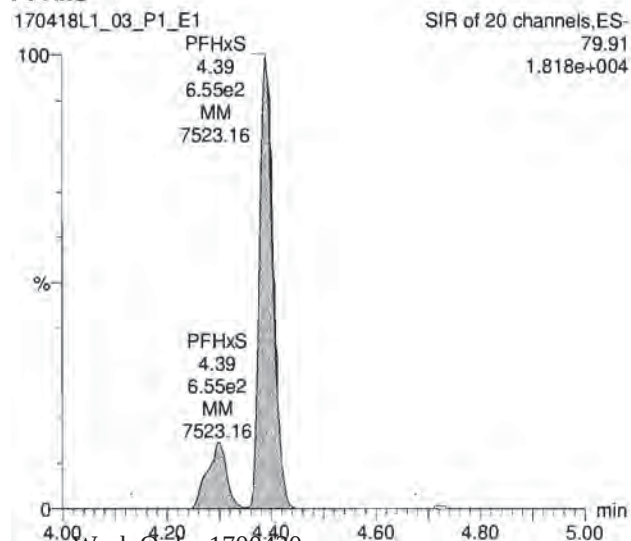
PFHxA



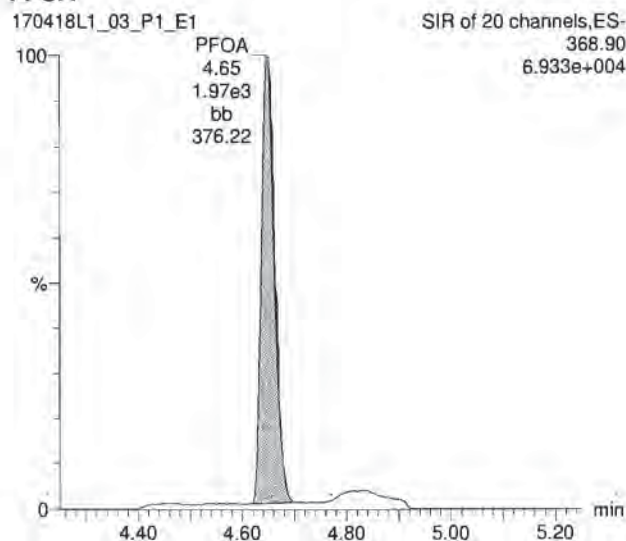
PFHpA



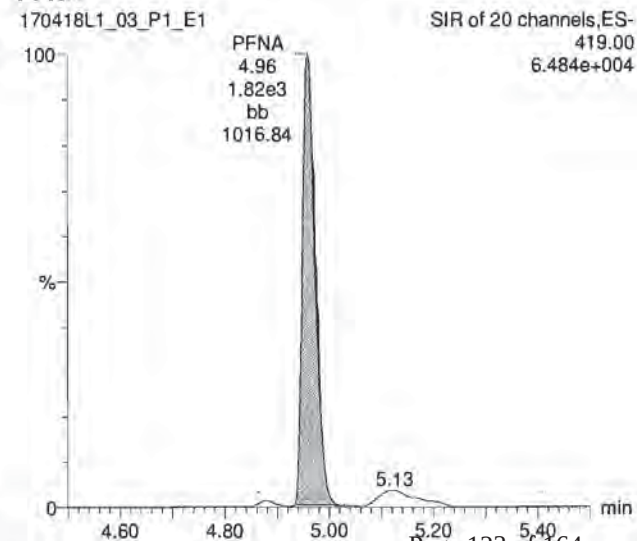
PFHxS



PFOA



PFNA



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

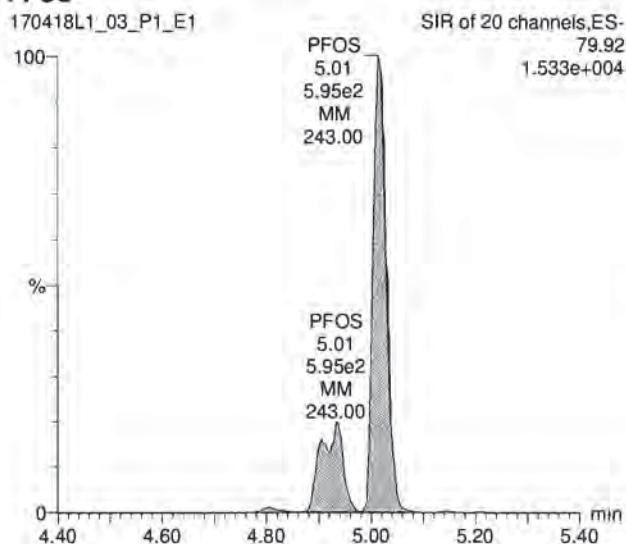
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

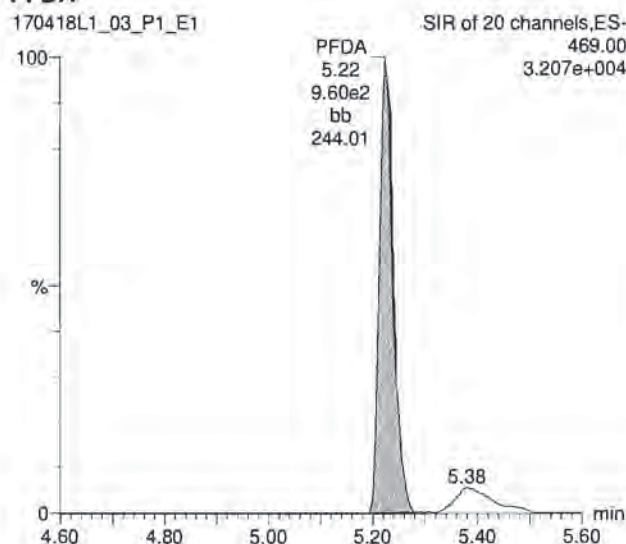
PFOS

170418L1_03_P1_E1



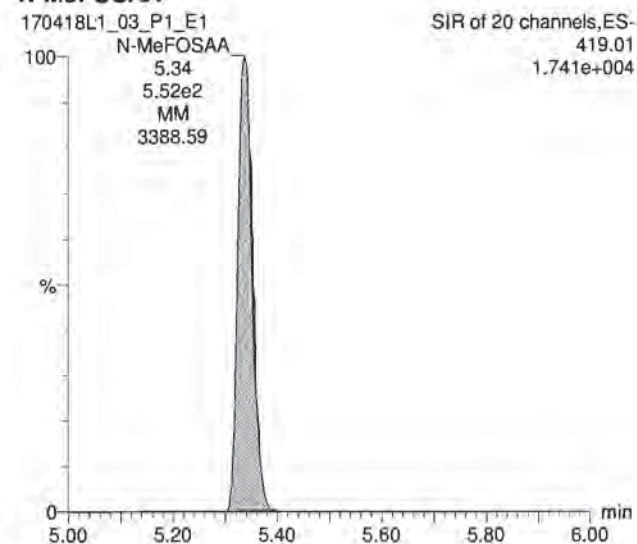
PFDA

170418L1_03_P1_E1



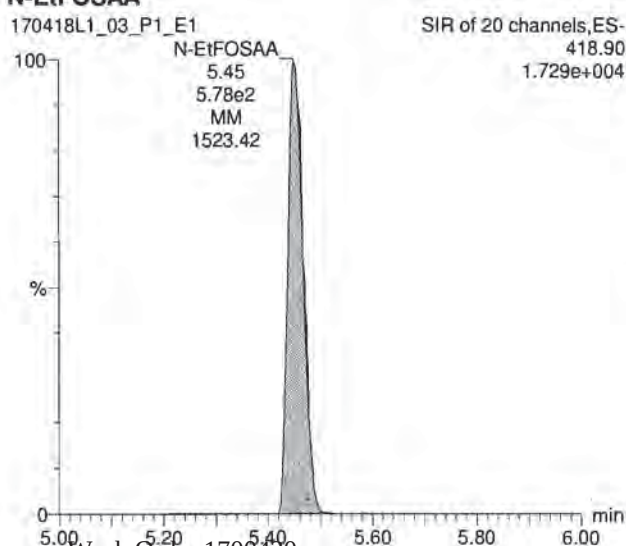
N-MeFOSAA

170418L1_03_P1_E1



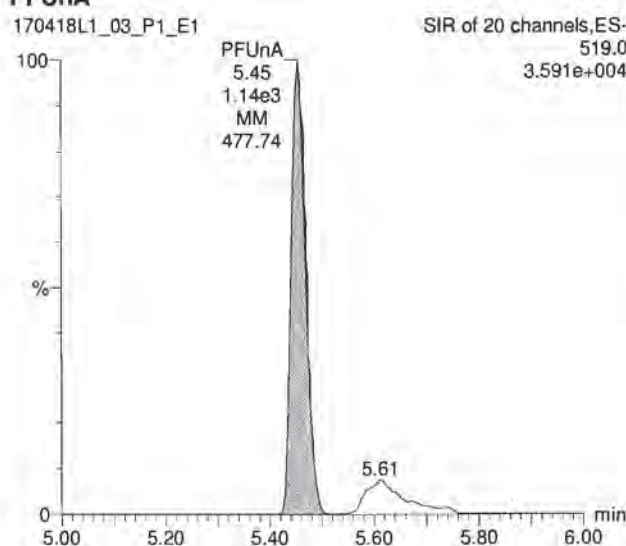
N-EtFOSAA

170418L1_03_P1_E1



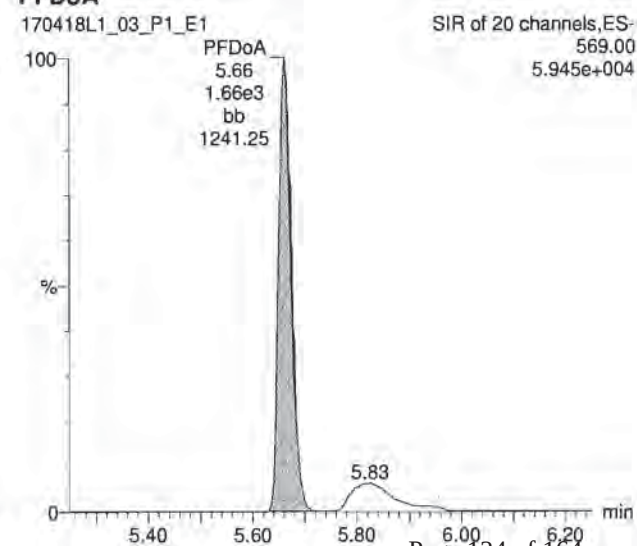
PFUnA

170418L1_03_P1_E1



PFDoA

170418L1_03_P1_E1



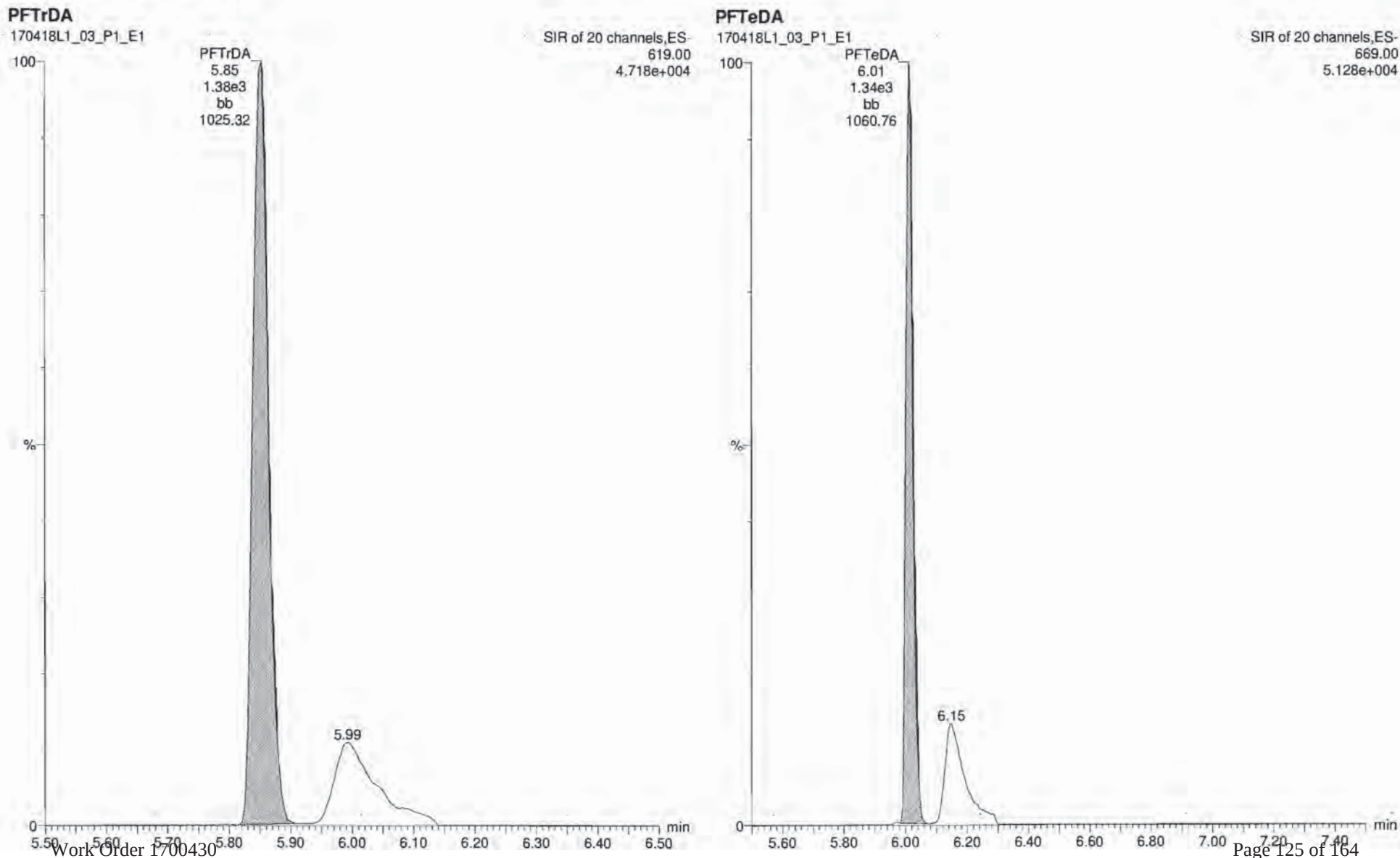
Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

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Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-2 537 DW CS(-2) 17D1812, Description: 537 DW CS(-2) 17D1812, Name: 170418L1_03.wiff, Date: 18-Apr-2017, Time: 17:12:33, Instrument: , Lab: ©PE-SCIEX, User: sciex



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

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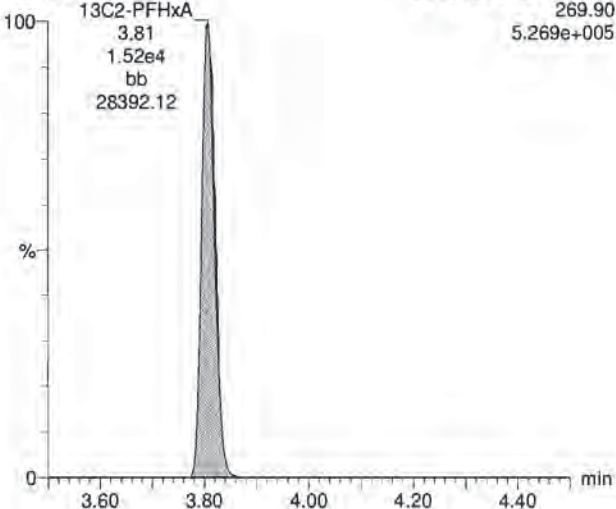
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Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

170418L1_03_P1_E1
13C2-PFHxA
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bb
28392.12

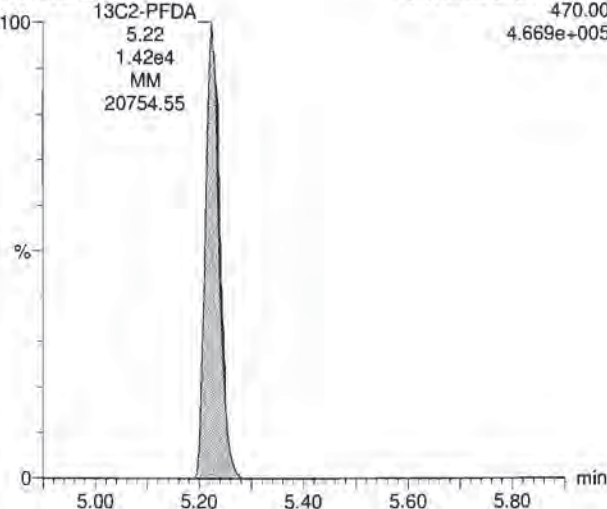
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269.90
5.269e+005



13C2-PFDA

170418L1_03_P1_E1
13C2-PFDA
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MM
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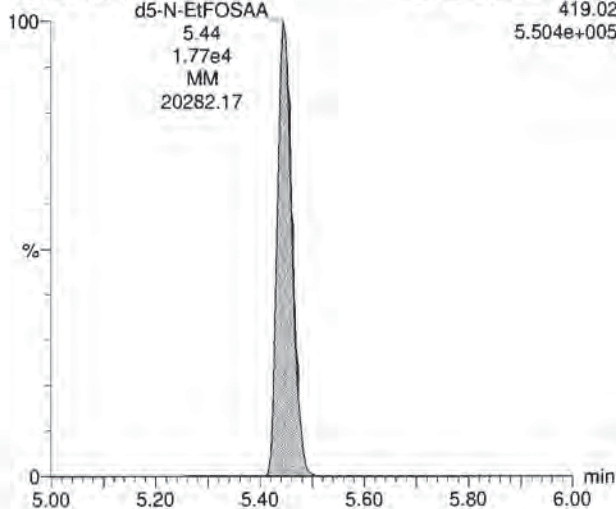
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d5-N-EtFOSAA

170418L1_03_P1_E1
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MM
20282.17

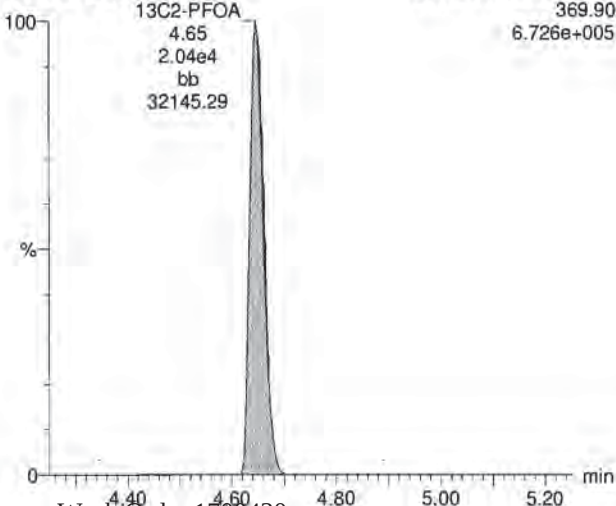
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13C2-PFOA

170418L1_03_P1_E1
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bb
32145.29

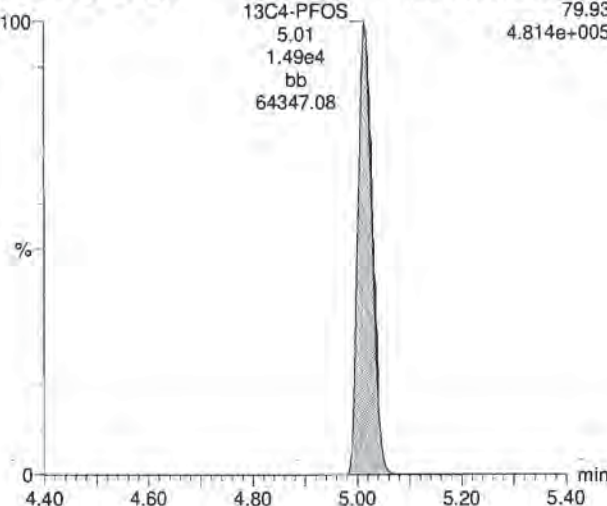
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369.90
6.726e+005



13C4-PFOS

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bb
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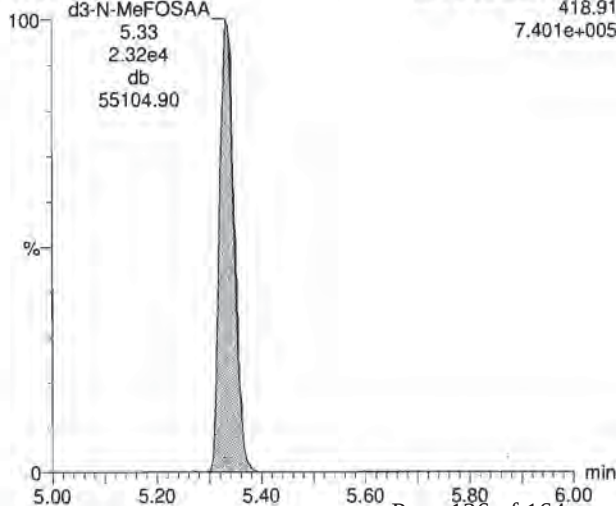
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79.93
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d3-N-MeFOSAA

170418L1_03_P1_E1
d3-N-MeFOSAA
5.33
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db
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SIR of 20 channels, ES-
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7.401e+005



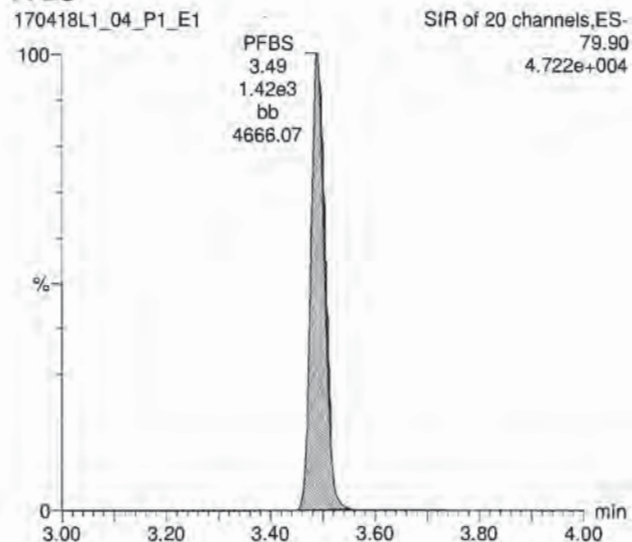
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Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

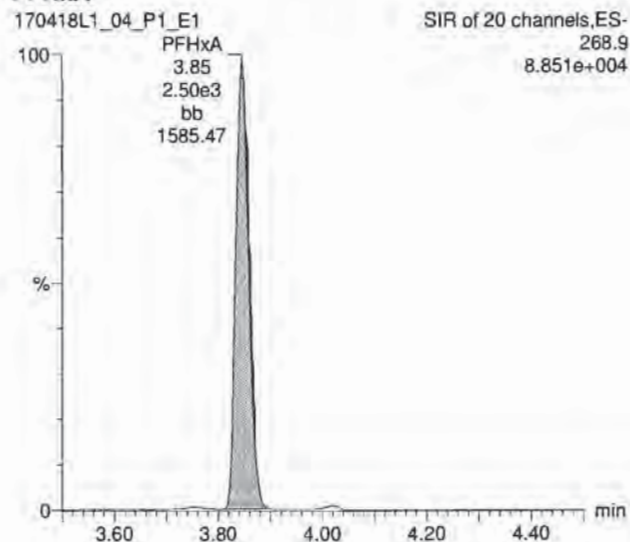
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-3 537 DW CS(-1) 17D1813, Description: 537 DW CS(-1) 17D1813, Name: 170418L1_04.wiff, Date: 18-Apr-2017, Time: 17:24:47, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

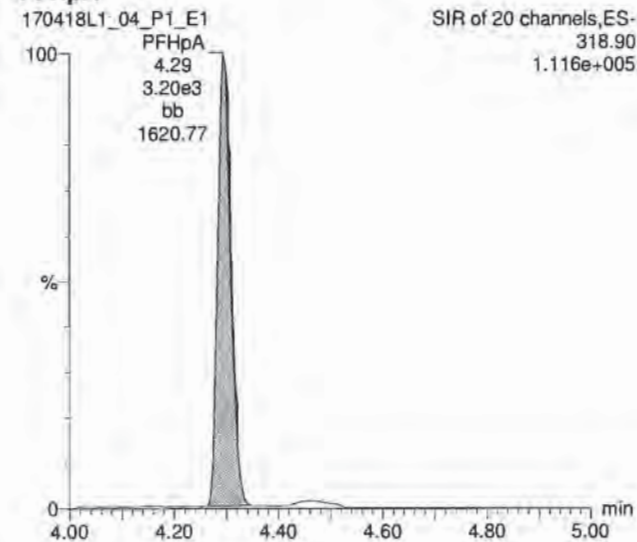
PFBS



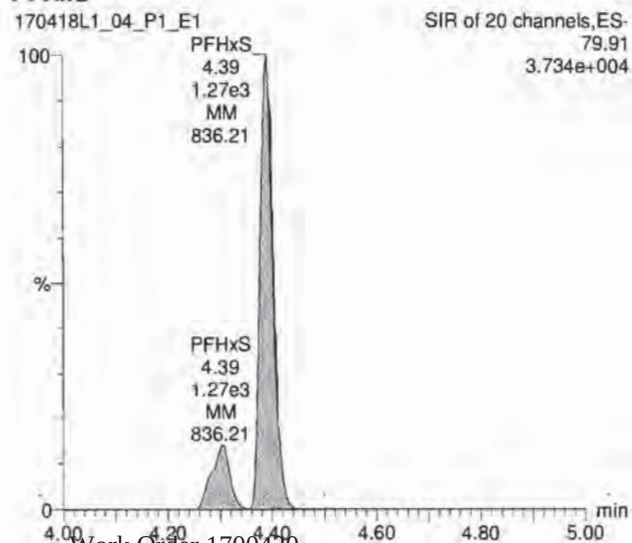
PFHxA



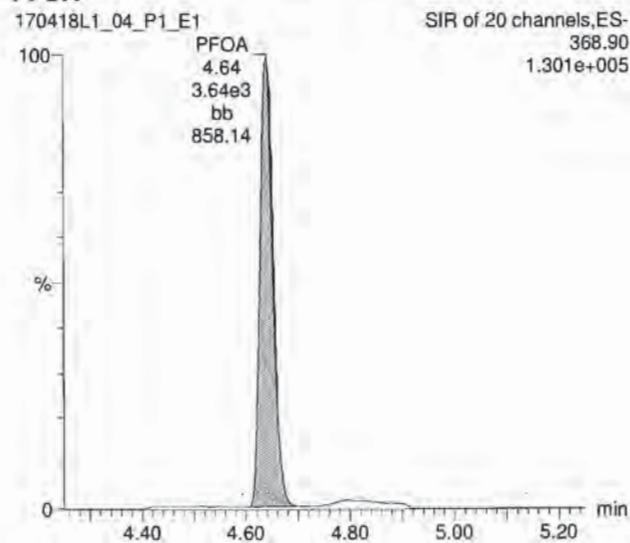
PFHpA



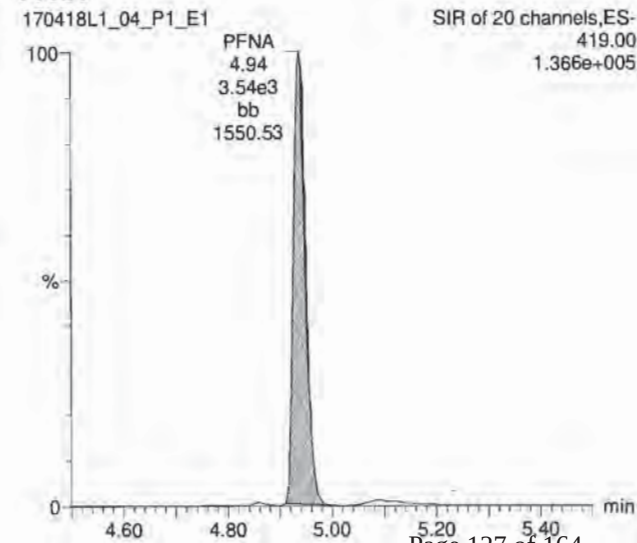
PFHxS



PFOA



PFNA

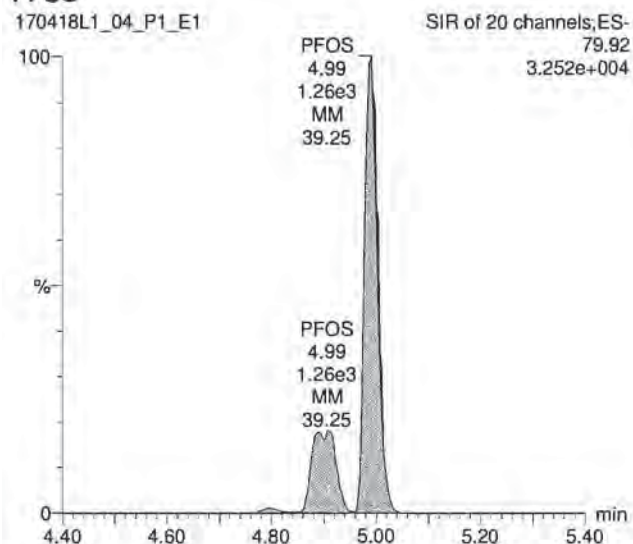


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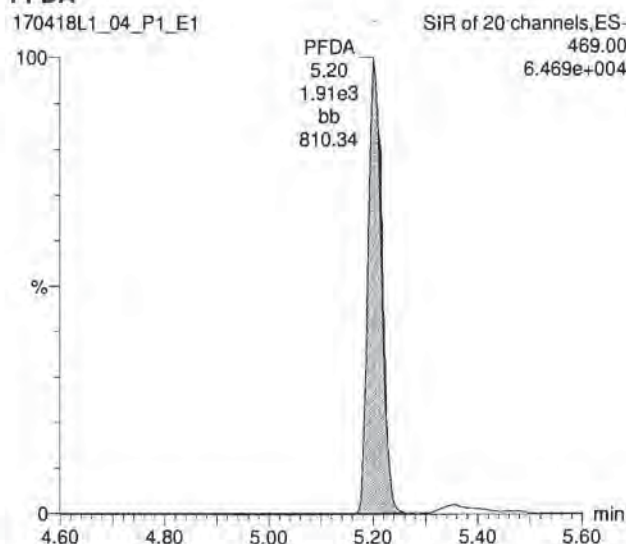
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

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Lab: ©PE-SCIEX, User: sciex

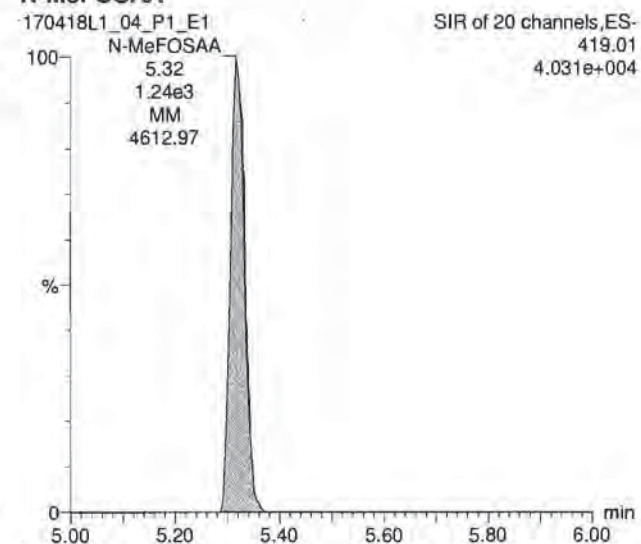
PFOS



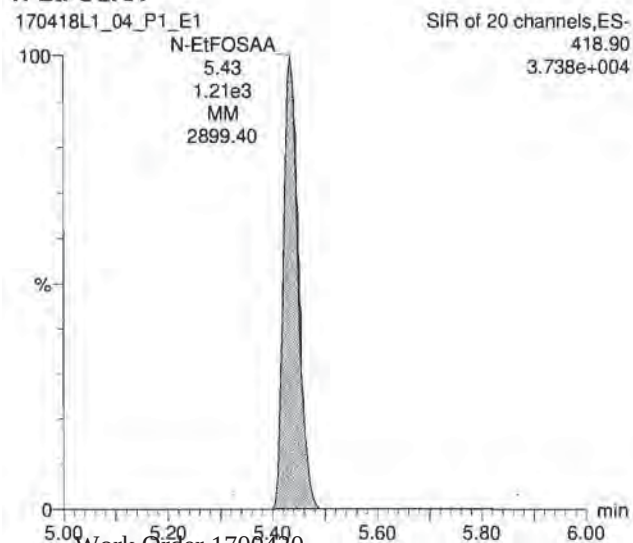
PFDA



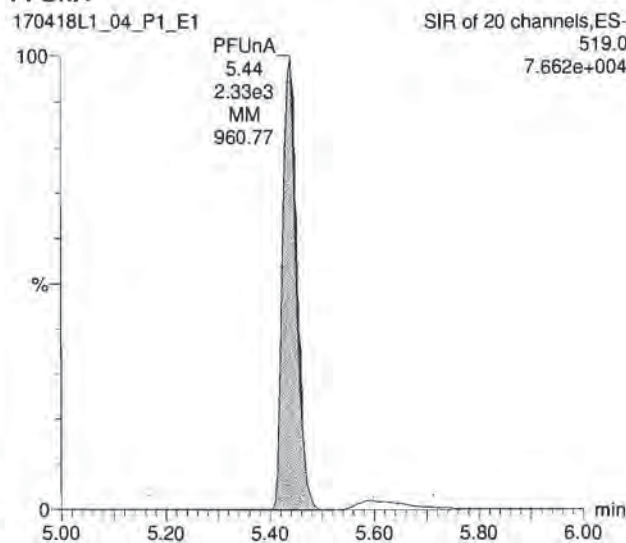
N-MeFOSAA



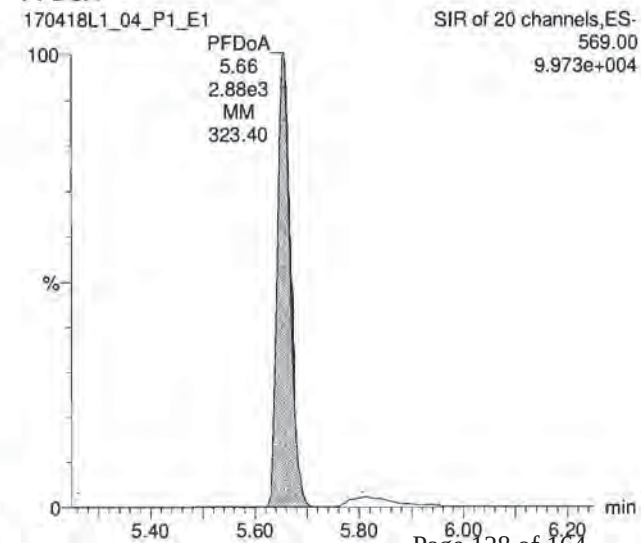
N-EtFOSAA



PFUnA



PFDaA



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

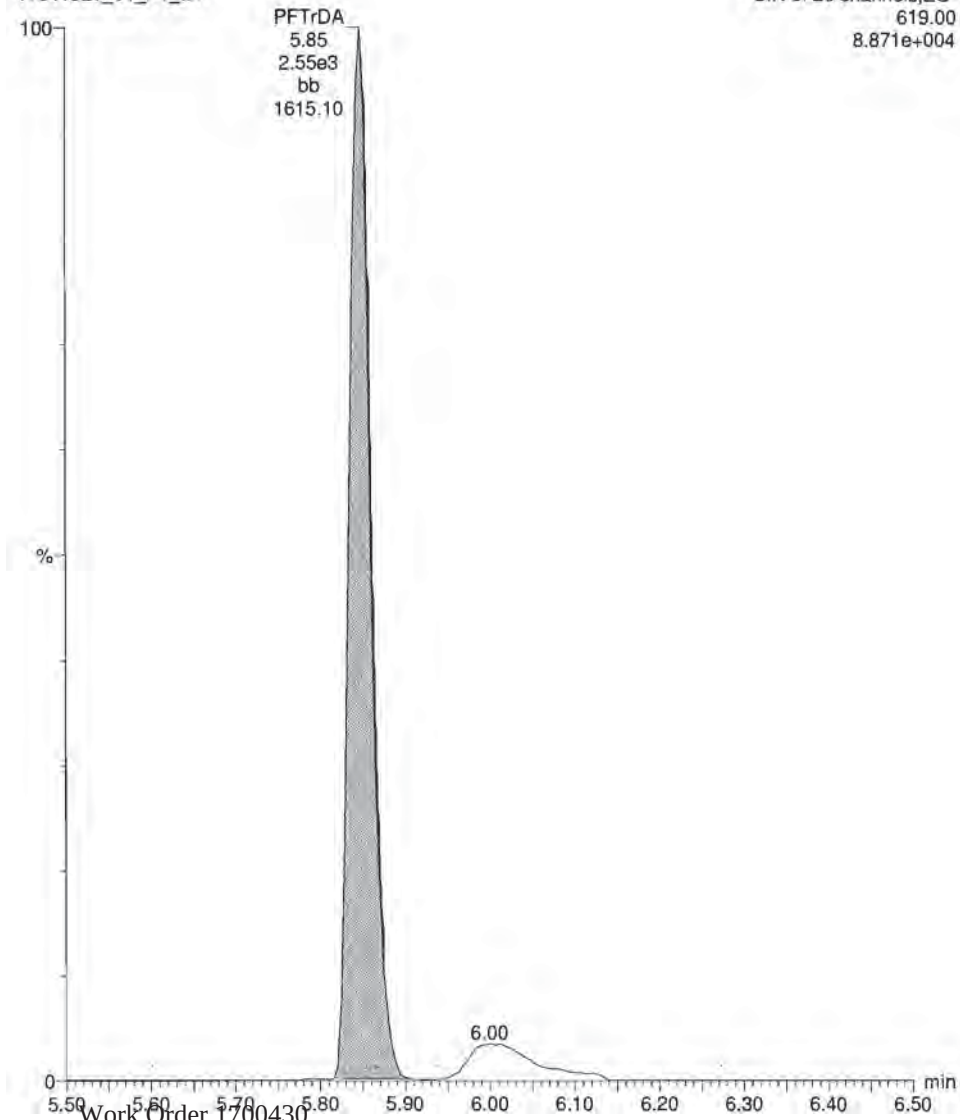
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-3 537 DW CS(-1) 17D1813, Description: 537 DW CS(-1) 17D1813, Name: 170418L1_04.wiff, Date: 18-Apr-2017, Time: 17:24:47, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

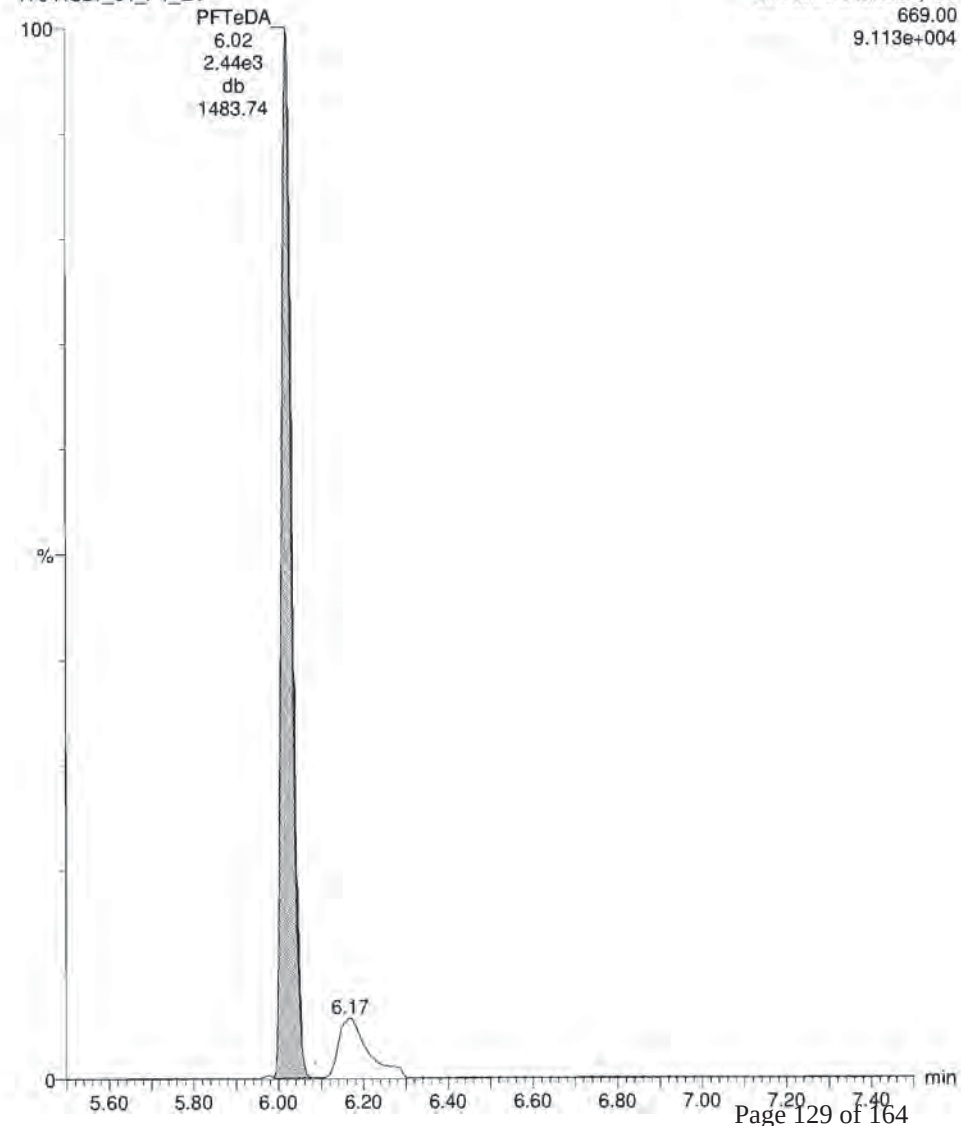
PFTrDA

170418L1_04_P1_E1



PFTeDA

170418L1_04_P1_E1



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

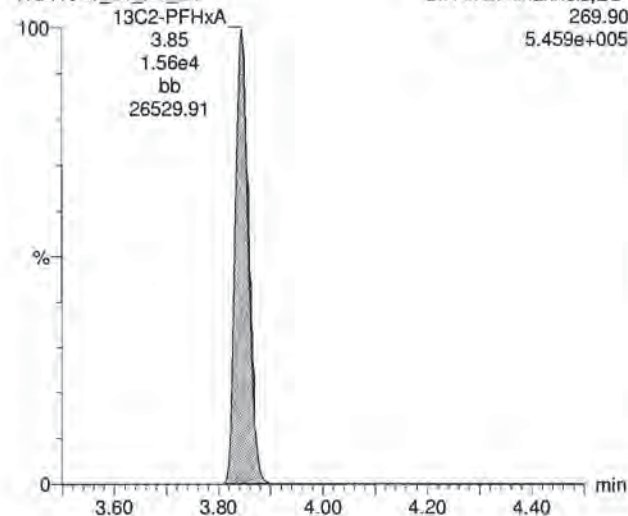
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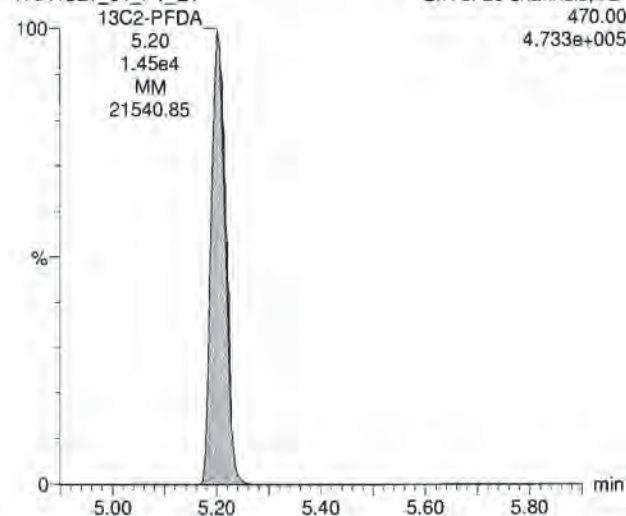
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Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

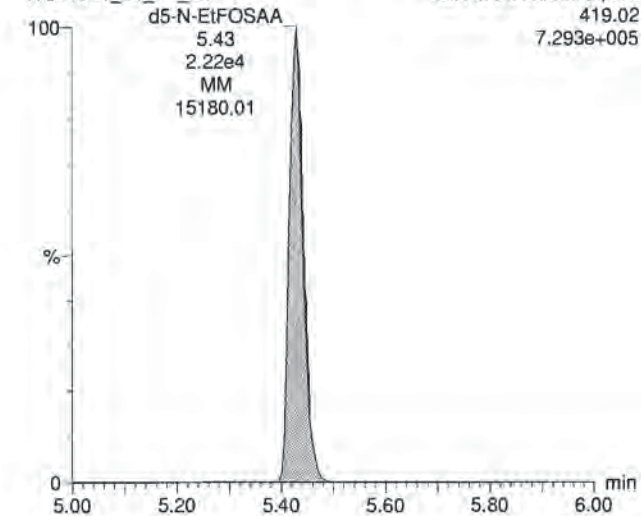
170418L1_04_P1_E1

**13C2-PFDA**

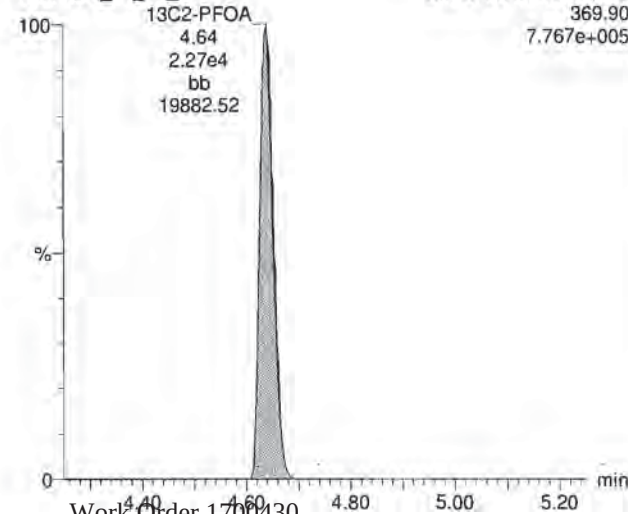
170418L1_04_P1_E1

**d5-N-EtFOSAA**

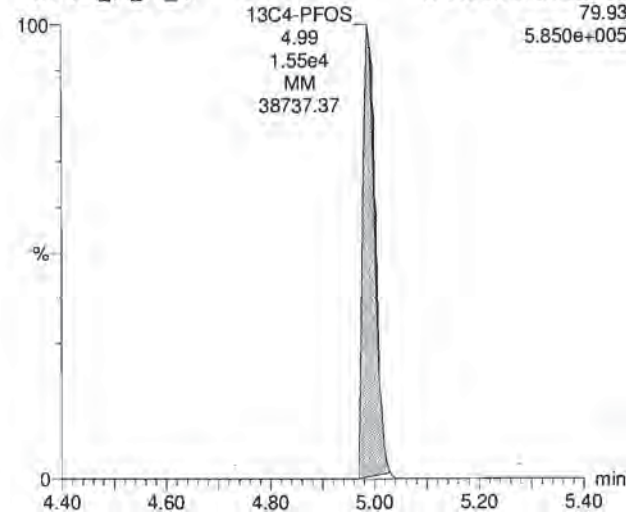
170418L1_04_P1_E1

**13C2-PFOA**

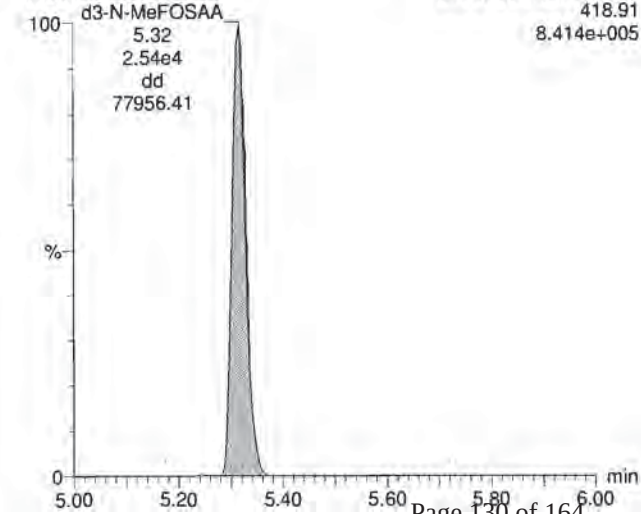
170418L1_04_P1_E1

**13C4-PFOS**

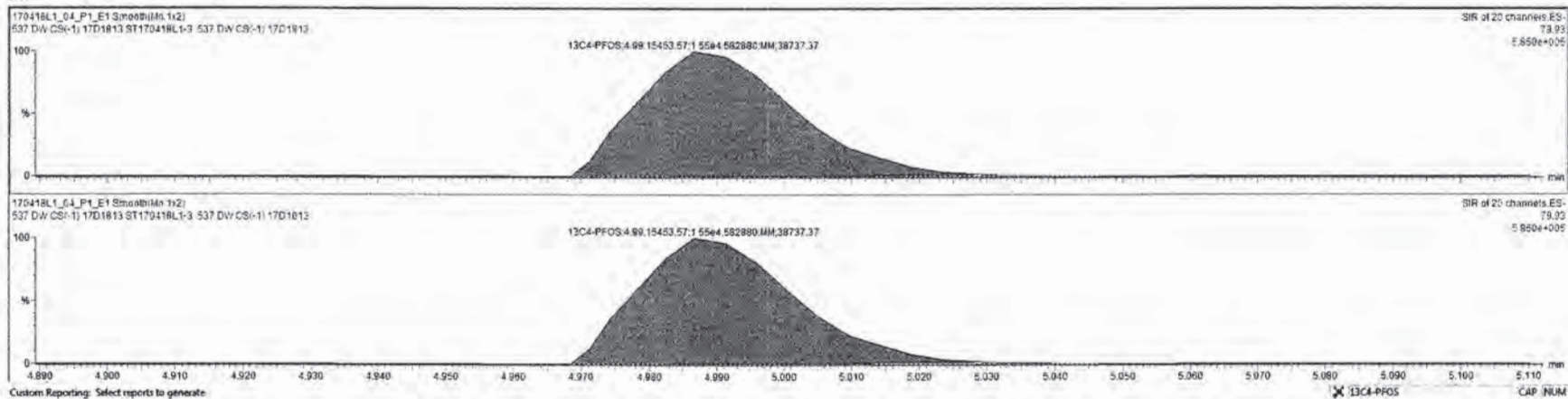
170418L1_04_P1_E1

**d3-N-MeFOSAA**

170418L1_04_P1_E1



#	Name	Type	Std Conc	RT	Area	IS Area	Response	Primary Flag	Conc	%Dev	Atts B	Atts L	Chl Data	N/A	RT	Chl Data
1	170418L1_02_P	Standard	28.700	5.14	14134.172	14134.172	28.700	bb	28.7	0.0	15-Ap	17.00-18	15-Ap	100.0	1.000	1.0
2	170418L1_03_P	Standard	28.700	5.01	14924.122	14924.122	28.700	bb	28.7	0.0	15-Ap	17.12-23	15-Ap	100.0	1.000	1.0
3	170418L1_04_P	Standard	28.700	4.99	15453.572	15453.572	28.700	bb	28.7	0.0	15-Ap	17.24-47	15-Ap	100.0	1.000	1.0
4	170418L1_05_P	Standard	28.700	5.00	15414.173	15414.173	28.700	bb	28.7	0.0	15-Ap	17.36-59	15-Ap	100.0	1.000	1.0
5	170418L1_06_P	Standard	28.700	5.13	12689.372	12689.372	28.700	bb	28.7	0.0	15-Ap	17.49-11	15-Ap	100.0	1.000	1.0
6	170418L1_07_P	Standard	28.700	5.08	14079.504	14079.504	28.700	bb	28.7	0.0	15-Ap	15.01-27	15-Ap	100.0	1.000	1.0
7	170418L1_08_P	Standard	28.700	5.05	13973.507	13973.507	28.700	bb	28.7	0.0	15-Ap	18.13-38	15-Ap	100.0	1.000	1.0
8	170418L1_09_P	Standard	28.700	5.22	16451.129	16451.129	28.700	bb	28.7	0.0	15-Ap	18.25-53	15-Ap	100.0	1.000	1.0



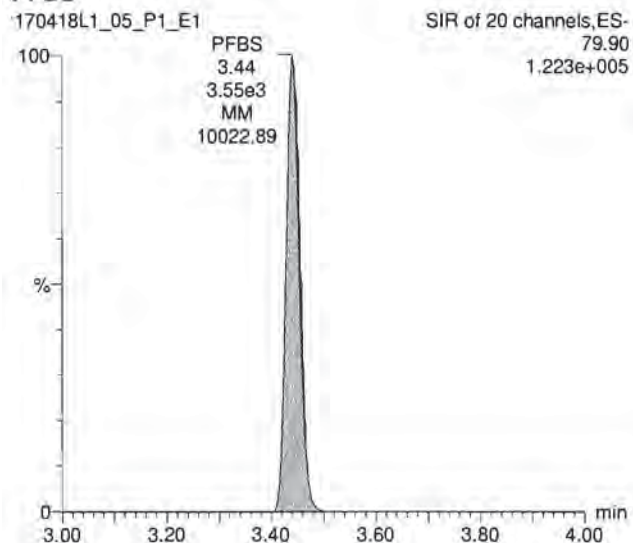
Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

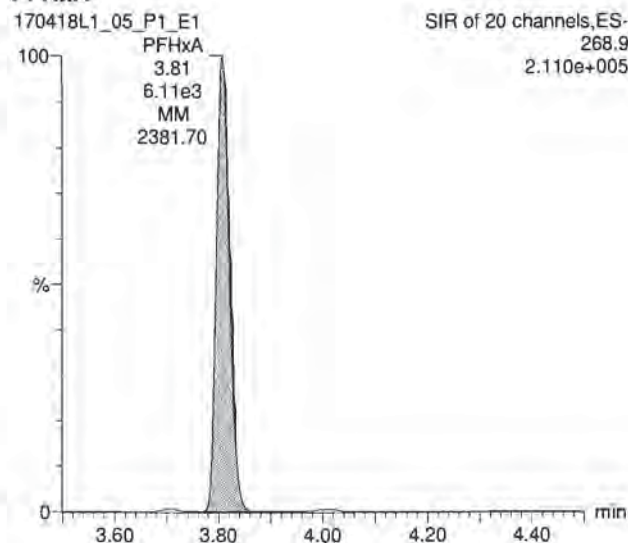
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-4 537 DW CS0 17D1814, Description: 537 DW CS0 17D1814, Name: 170418L1_05.wiff, Date: 18-Apr-2017, Time: 17:36:59, Instrument: , Lab: ©PE-SCIEX, User: sciex

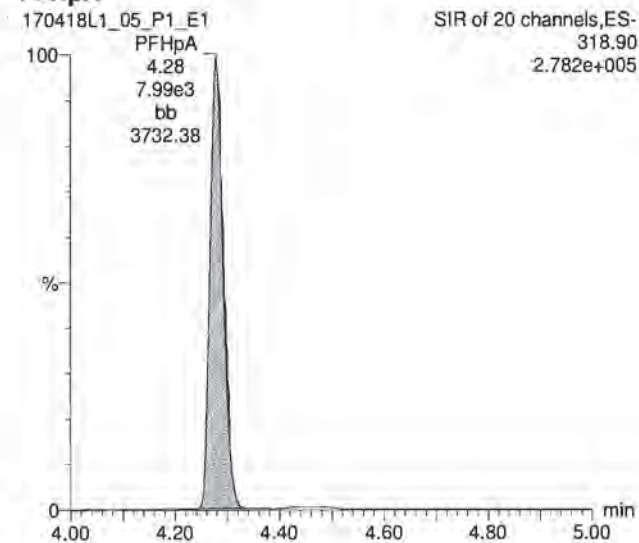
PFBS



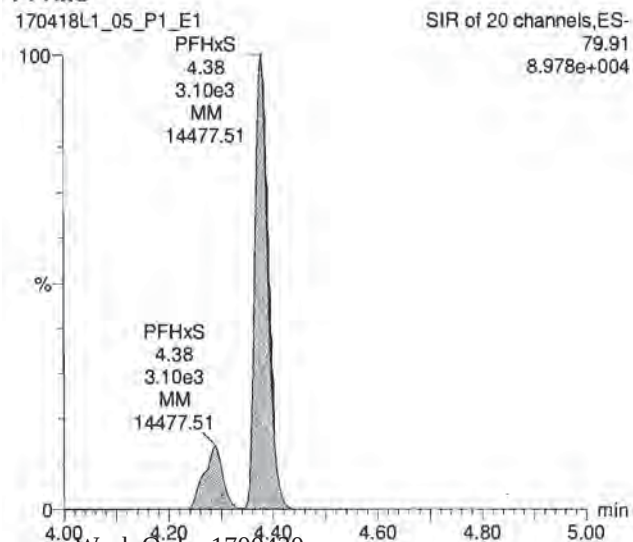
PFHxA



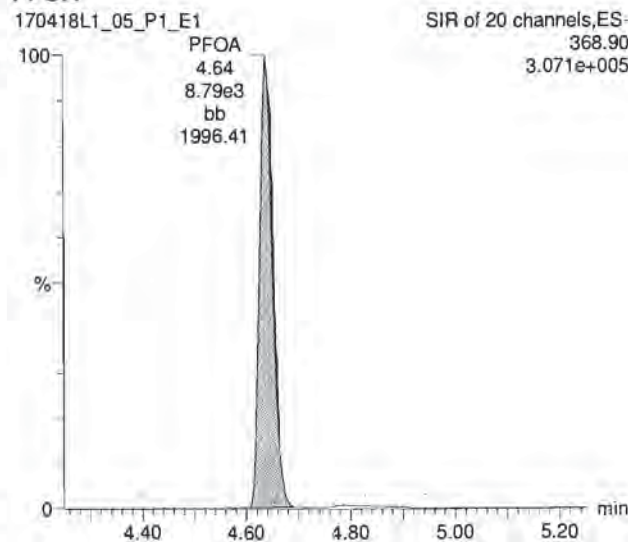
PFHpA



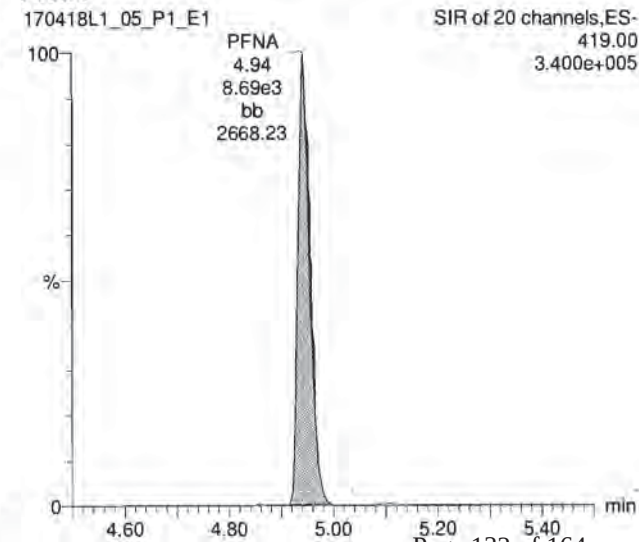
PFHxS



PFOA



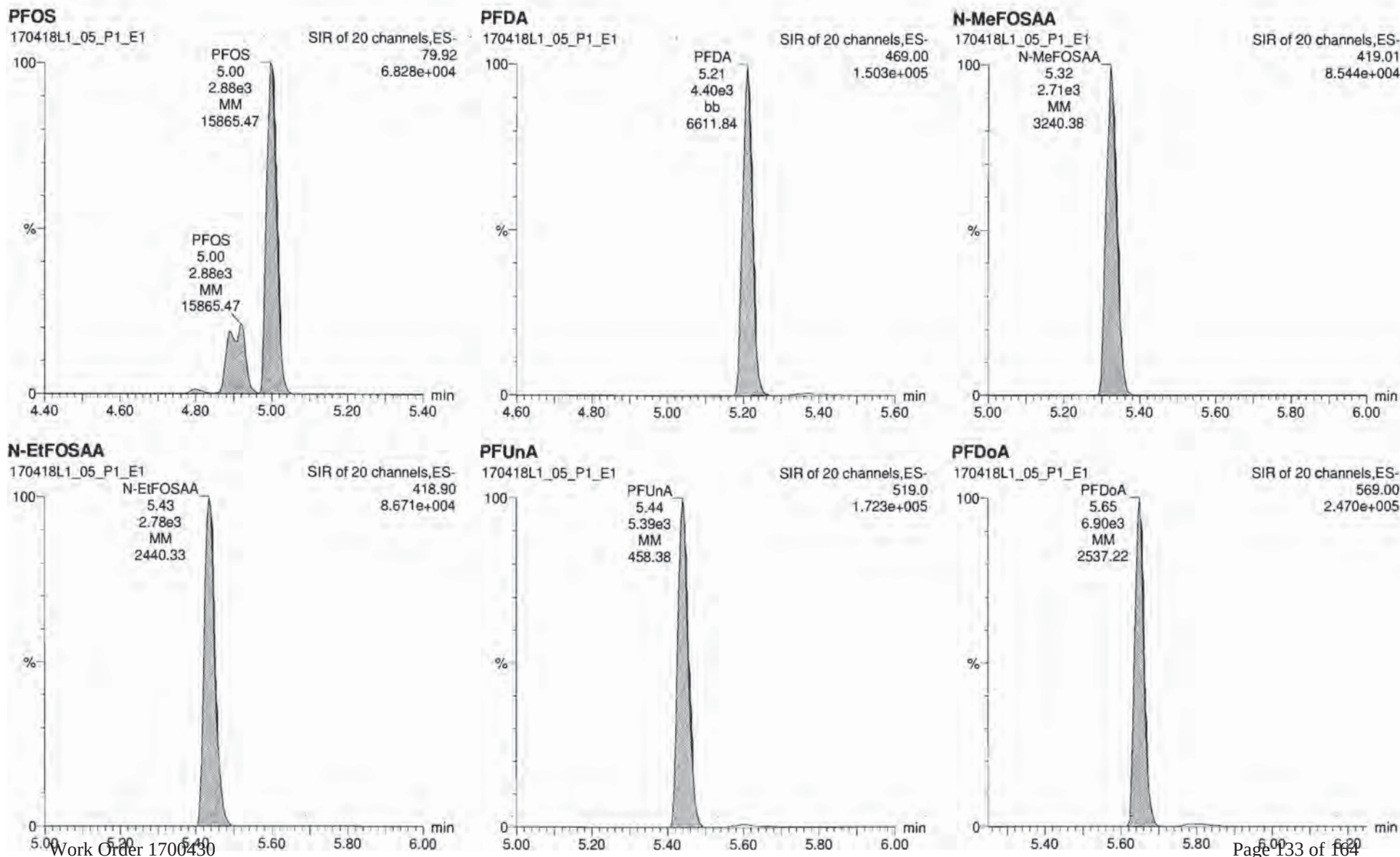
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Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-4 537 DW CS0 17D1814, Description: 537 DW CS0 17D1814, Name: 170418L1_05.wiff, Date: 18-Apr-2017, Time: 17:36:59, Instrument: , Lab: ©PE-SCIEX, User: sciex



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

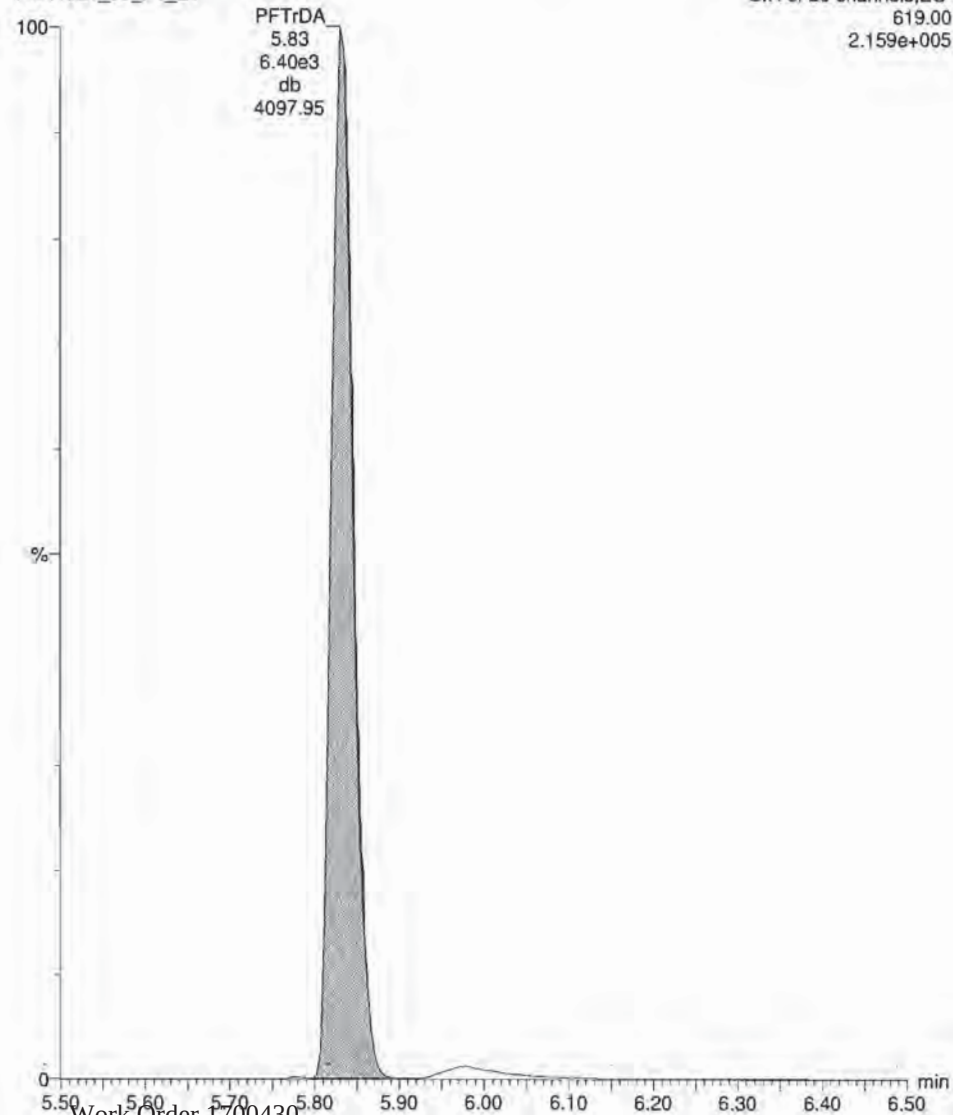
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-4 537 DW CS0 17D1814, Description: 537 DW CS0 17D1814, Name: 170418L1_05.wiff, Date: 18-Apr-2017, Time: 17:36:59, Instrument: , Lab: ©PE-SCIEX, User: sciex

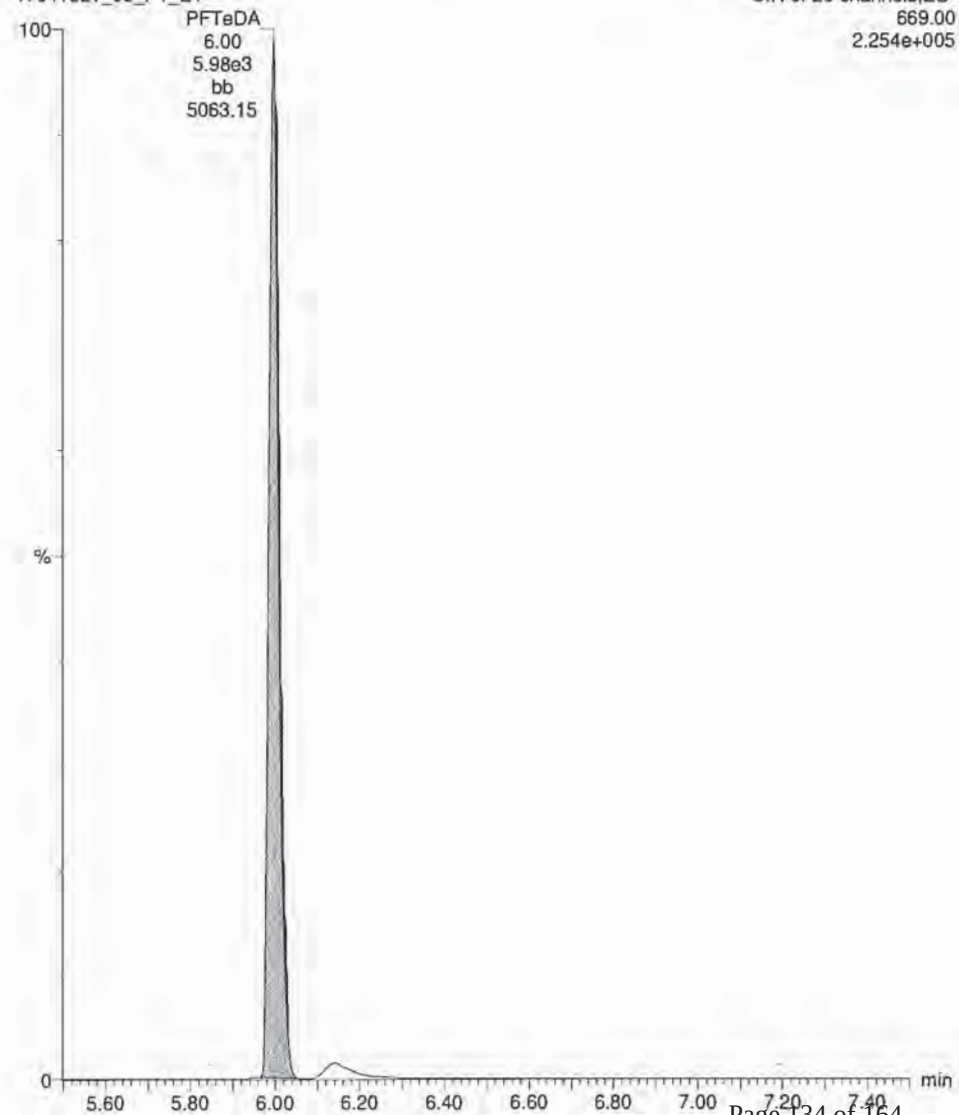
PFTrDA

170418L1_05_P1_E1



PFTeDA

170418L1_05_P1_E1



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

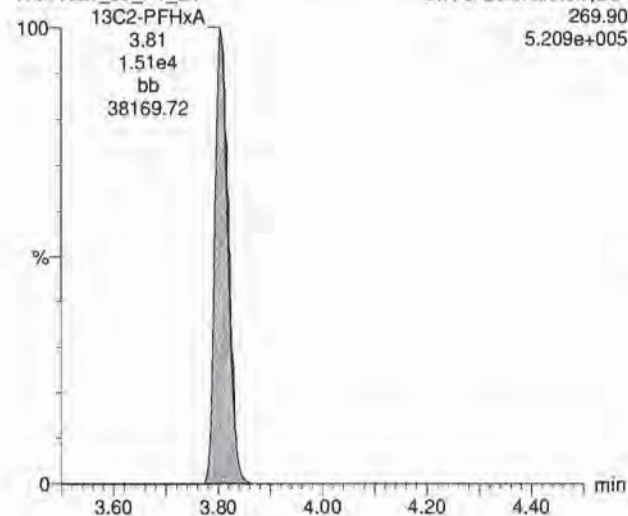
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Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

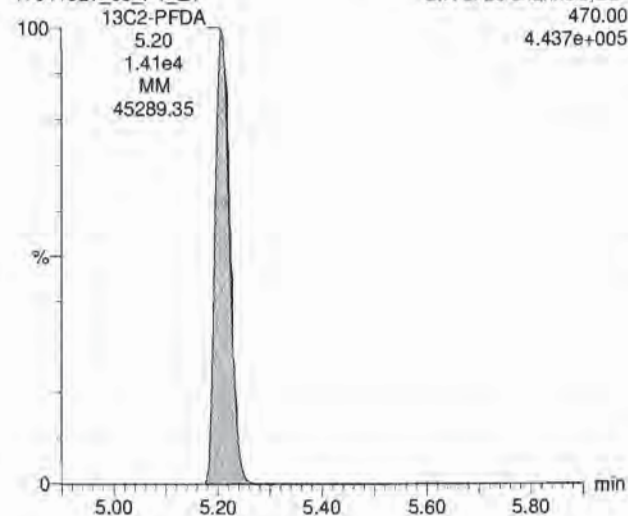
ID: ST170418L1-4 537 DW CS0 17D1814, Description: 537 DW CS0 17D1814, Name: 170418L1_05.wiff, Date: 18-Apr-2017, Time: 17:36:59, Instrument: , Lab: ©PE-SCIEX,
User: sciex

13C2-PFHxA

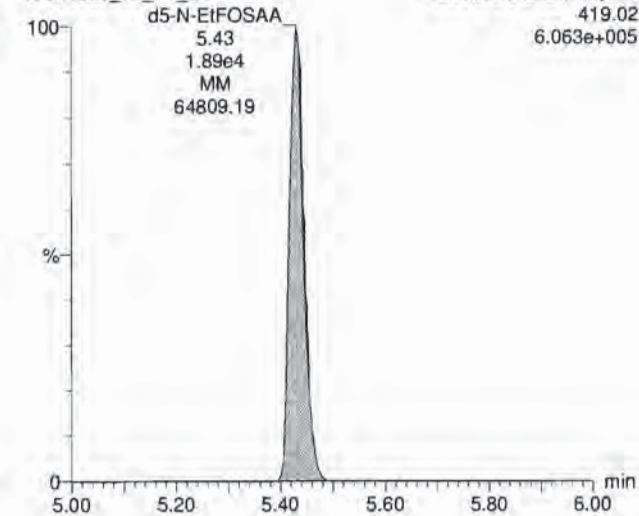
170418L1_05_P1_E1

**13C2-PFDA**

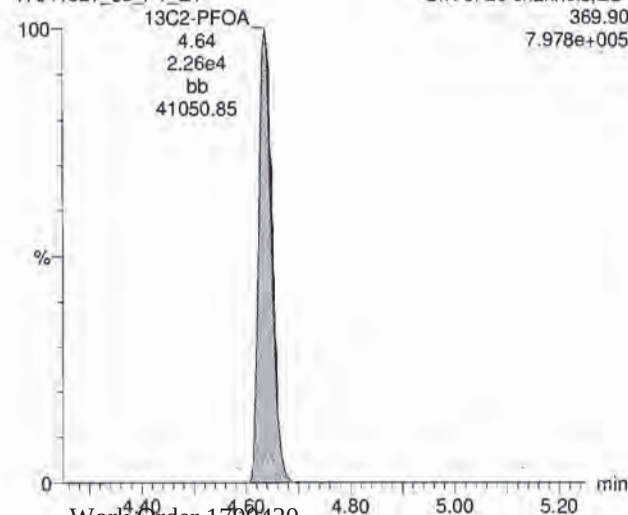
170418L1_05_P1_E1

**d5-N-EtFOSAA**

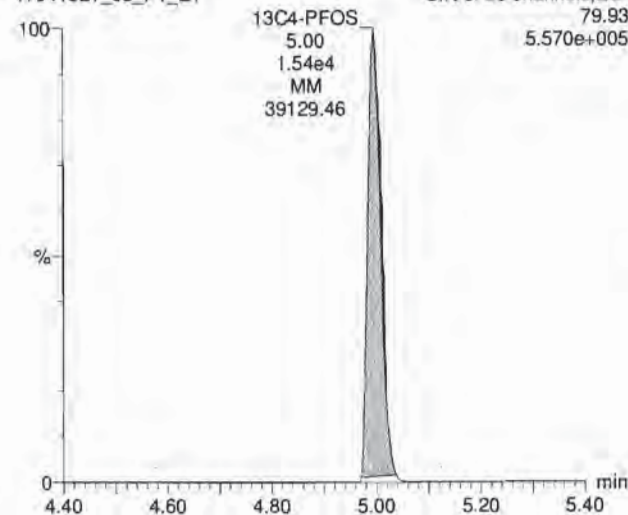
170418L1_05_P1_E1

**13C2-PFOA**

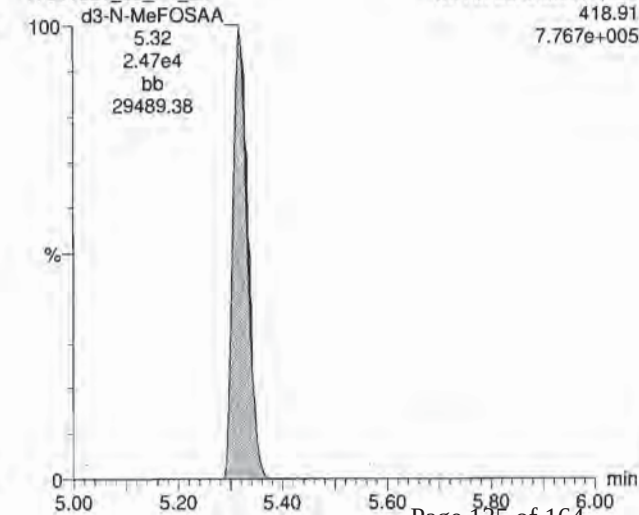
170418L1_05_P1_E1

**13C4-PFOS**

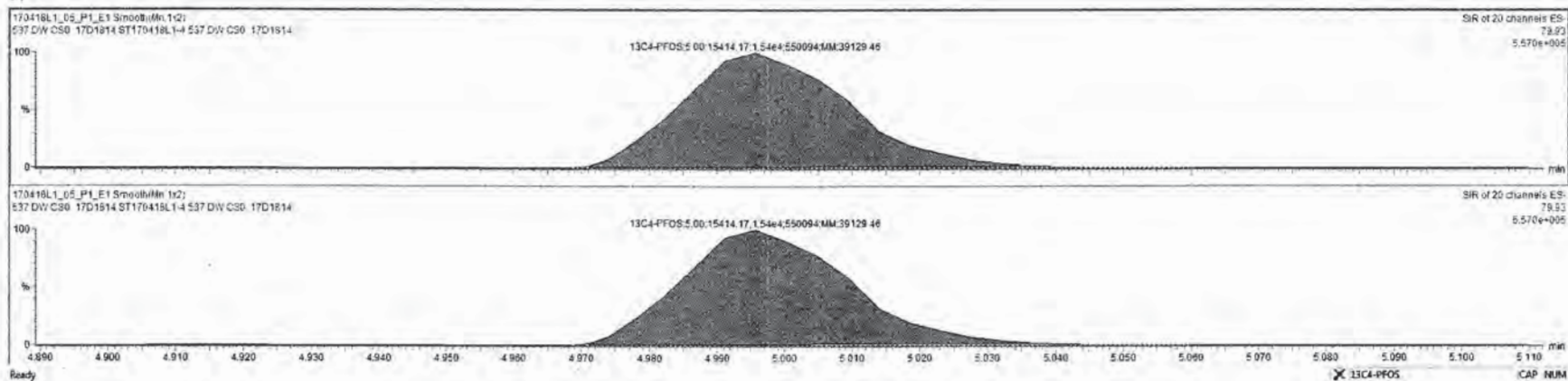
170418L1_05_P1_E1

**d3-N-MeFOSAA**

170418L1_05_P1_E1



#	Name	Type	Std. Conc.	RT	Area	%Area	Response	Primary Flag	Conc.	%Dev	Atts.D.	Acq.Lt.	Chl.Date	%Proc	RPF	Desert
1	170418L1_02_P	Standard	25.700	5.14	14134.172	14134.172	28.700	bb	25.7	0.0	15-Apr	17:00:18	15-Apr	100.0	1.000	1.0
2	170418L1_03_P	Standard	25.700	5.01	14524.122	14524.122	28.700	bb	25.7	0.0	15-Apr	17:12:33	15-Apr	100.0	1.000	1.0
3	170418L1_04_P	Standard	25.700	4.99	15453.572	15453.572	28.700	UN	25.7	0.0	15-Apr	17:24:47	15-Apr	100.0	1.000	1.0
4	170418L1_05_P	Standard	25.700	5.00	15414.172	15414.172	28.700	MM	25.7	0.0	15-Apr	17:36:18	15-Apr	100.0	1.000	1.0
5	170418L1_06_P	Standard	25.700	5.13	12039.372	12039.372	28.700	ML	25.7	0.0	15-Apr	17:49:11	15-Apr	100.0	1.000	1.0
6	170418L1_07_P	Standard	25.700	5.08	14079.500	14079.500	28.700	bb	25.7	0.0	15-Apr	18:01:27	15-Apr	100.0	1.000	1.0
7	170418L1_08_P	Standard	25.700	5.05	13973.907	13973.907	28.700	bb	25.7	0.0	15-Apr	18:13:58	15-Apr	100.0	1.000	1.0
8	170418L1_09_P	Standard	25.700	5.22	16451.129	16451.129	28.700	bbX	25.7	0.0	15-Apr	18:25:53	15-Apr	100.0	1.000	1.0



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

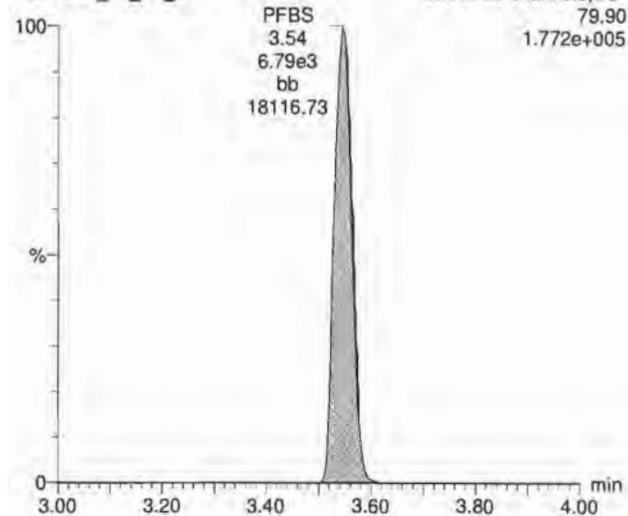
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

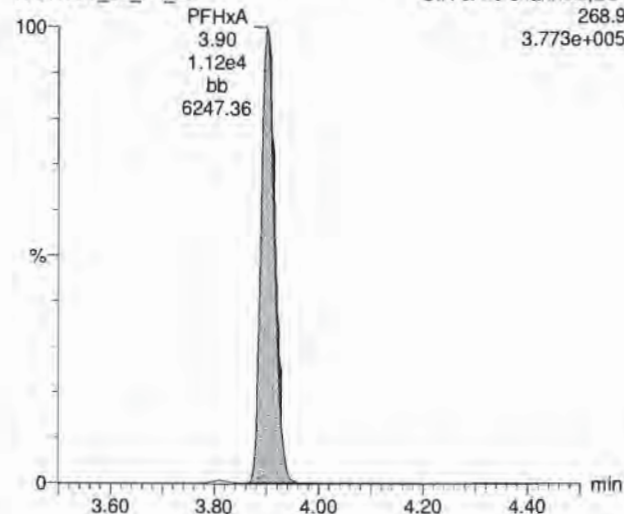
ID: ST170418L1-5 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_06.wiff, Date: 18-Apr-2017, Time: 17:49:11, Instrument: , Lab: ©PE-SCIEX, User: sciex

PFBS

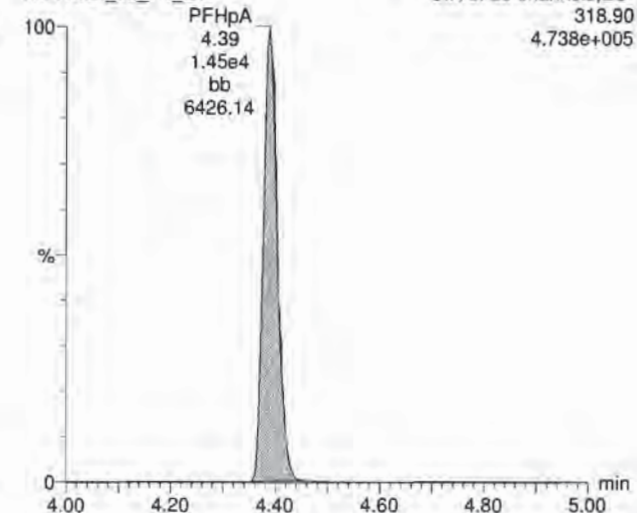
170418L1_06_P1_E1

**PFHxA**

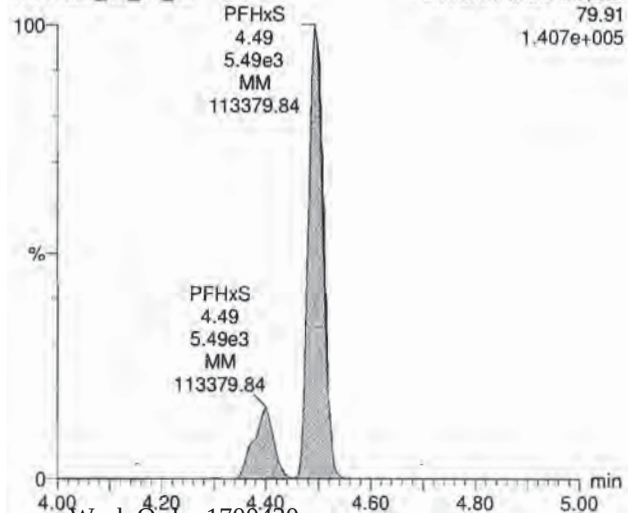
170418L1_06_P1_E1

**PFHpA**

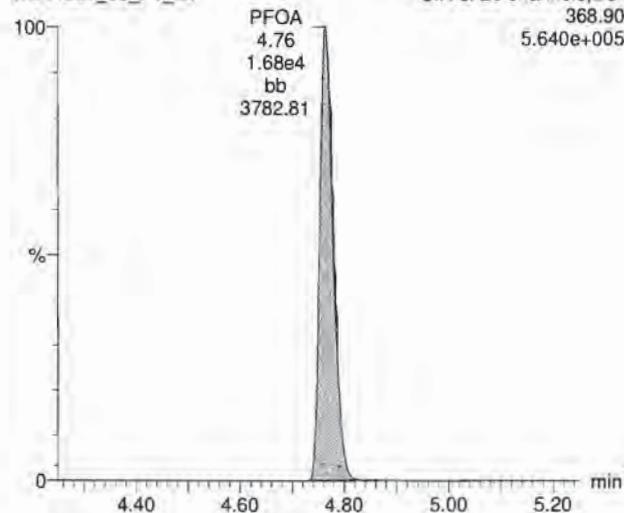
170418L1_06_P1_E1

**PFHxS**

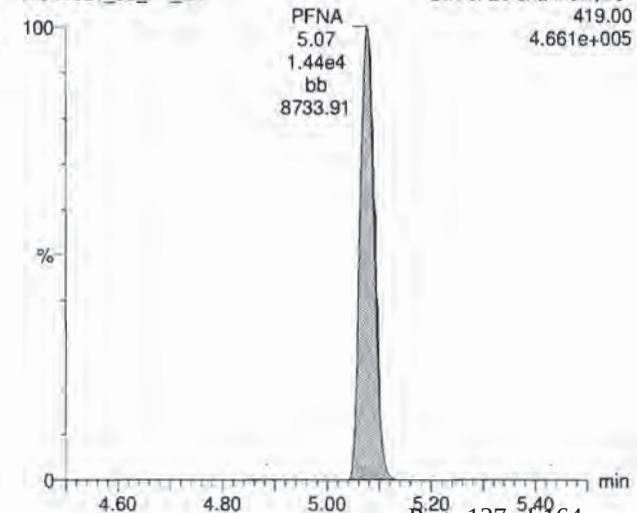
170418L1_06_P1_E1

**PFOA**

170418L1_06_P1_E1

**PFNA**

170418L1_06_P1_E1



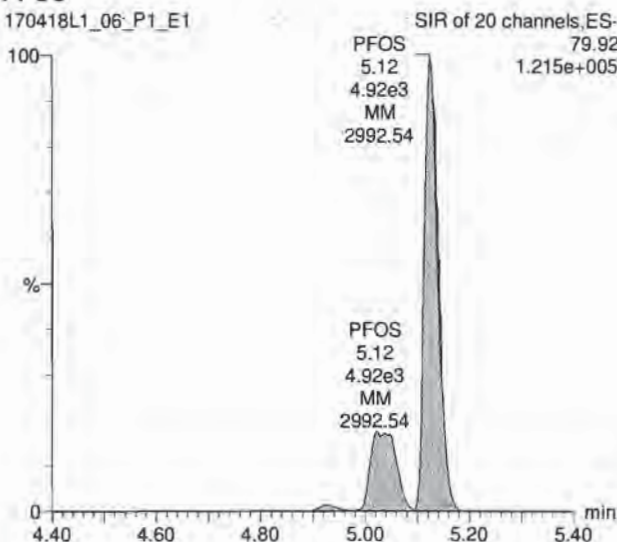
Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-5 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_06.wiff, Date: 18-Apr-2017, Time: 17:49:11, Instrument: , Lab: ©PE-SCIEX,
User: sciex

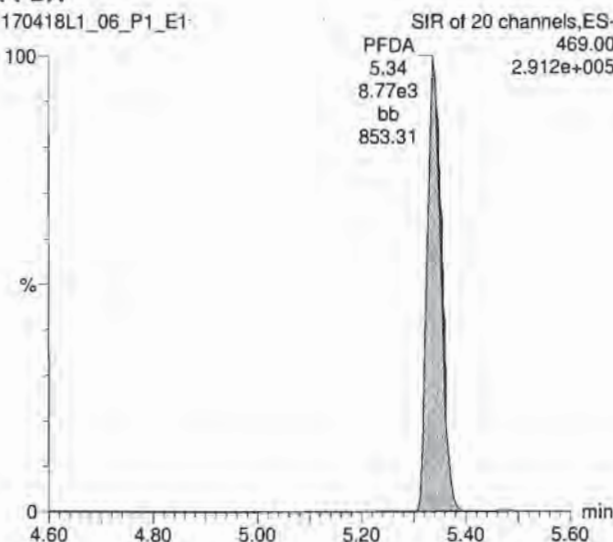
PFOS

170418L1_06_P1_E1



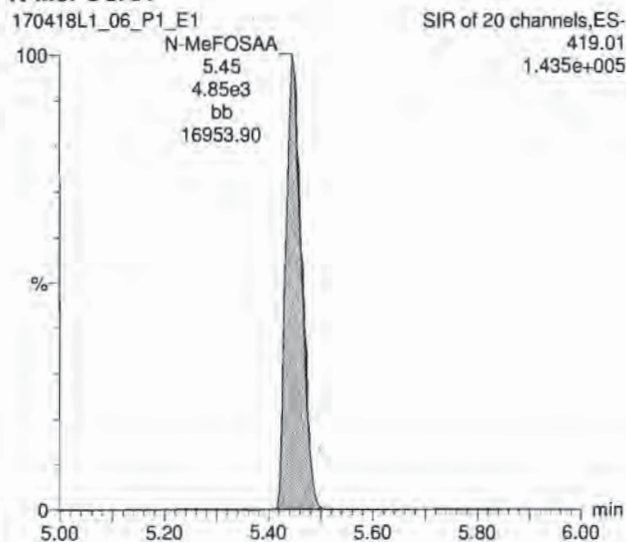
PFDA

170418L1_06_P1_E1



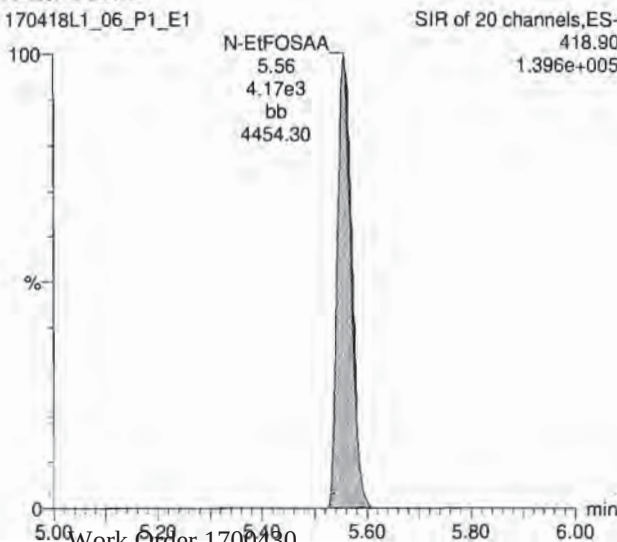
N-MeFOSAA

170418L1_06_P1_E1



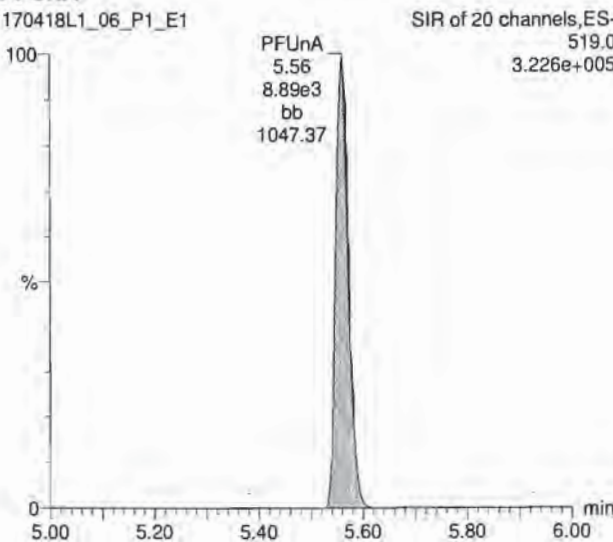
N-EtFOSAA

170418L1_06_P1_E1



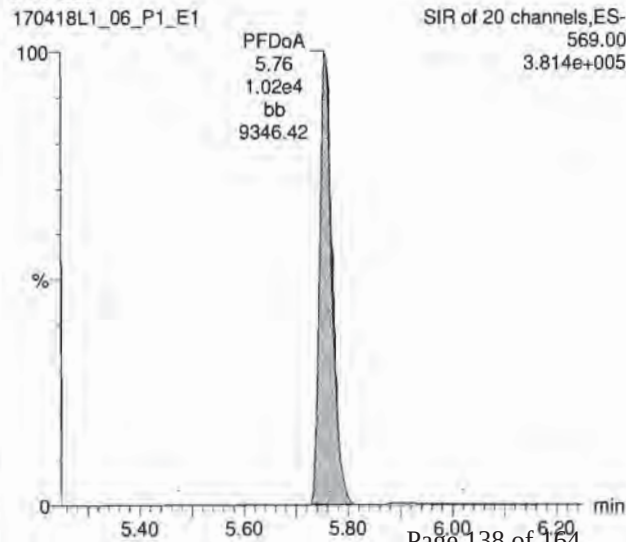
PFUnA

170418L1_06_P1_E1



PFDaA

170418L1_06_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

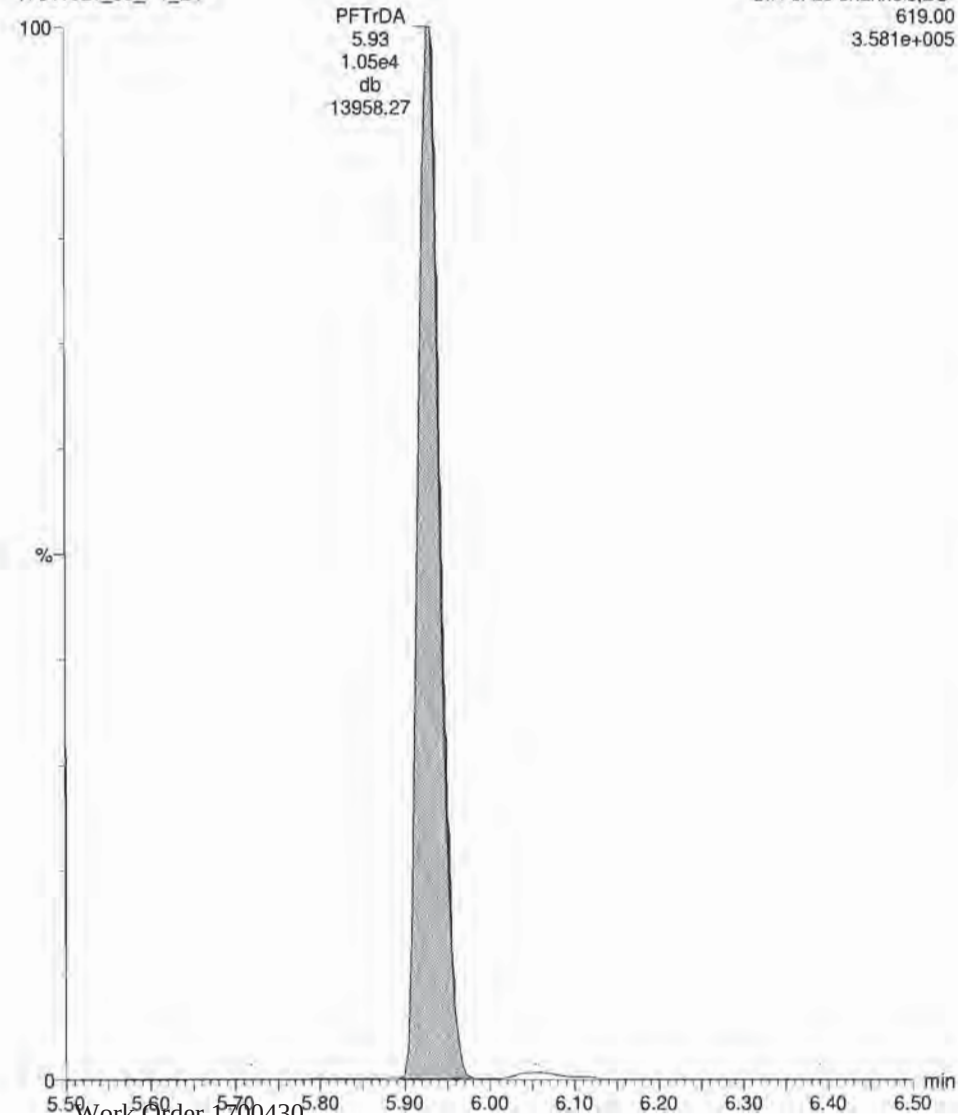
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-5 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_06.wiff, Date: 18-Apr-2017, Time: 17:49:11, Instrument: , Lab: ©PE-SCIEX, User: sciex

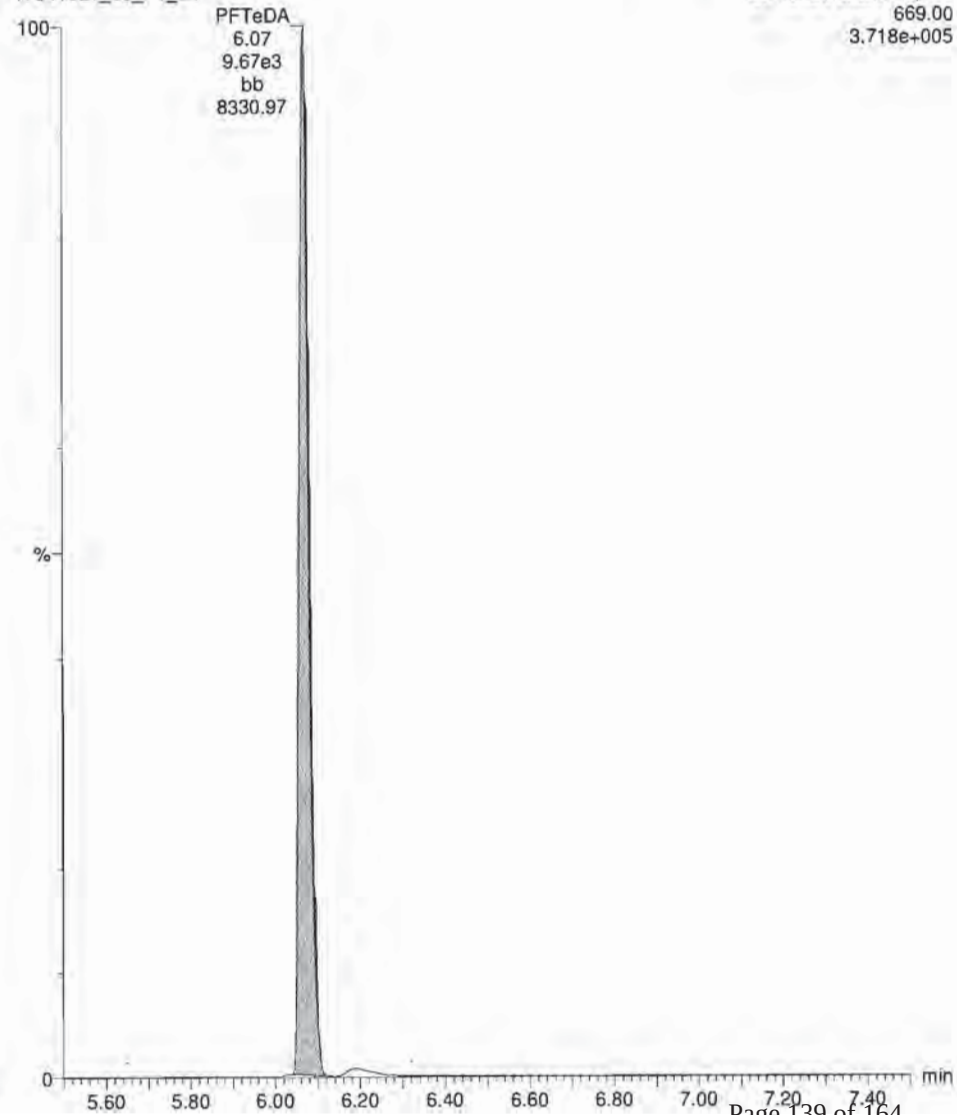
PFTrDA

170418L1_06_P1_E1



PFTeDA

170418L1_06_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

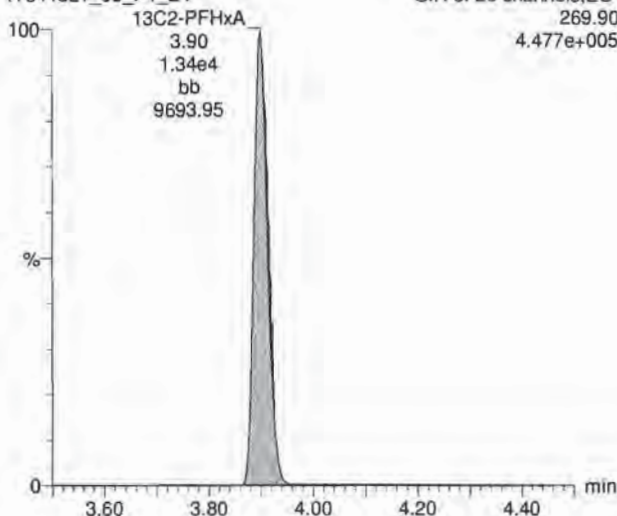
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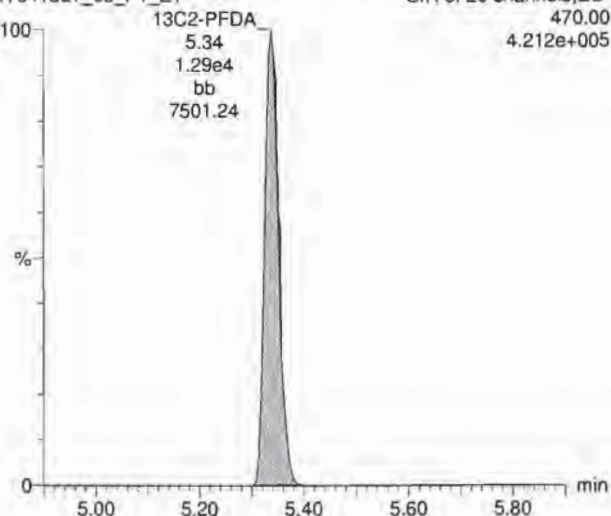
ID: ST170418L1-5 537 DW CS1 17D1815, Description: 537 DW CS1 17D1815, Name: 170418L1_06.wiff, Date: 18-Apr-2017, Time: 17:49:11, Instrument: , Lab: ©PE-SCIEX,
User: sciex

13C2-PFHxA

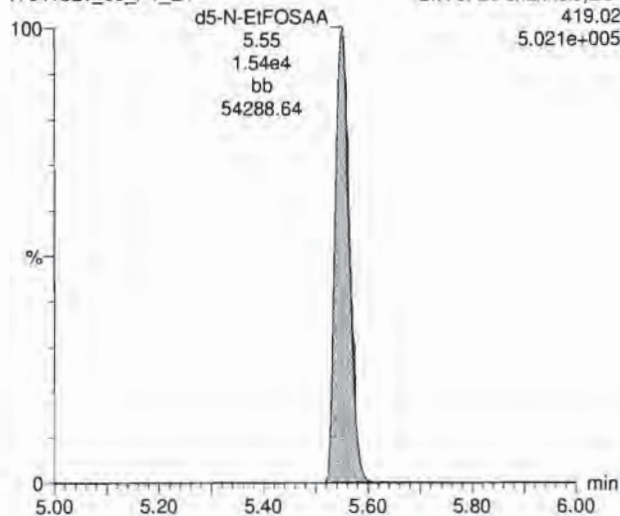
170418L1_06_P1_E1

SIR of 20 channels, ES-
269.90
4.477e+005**13C2-PFDA**

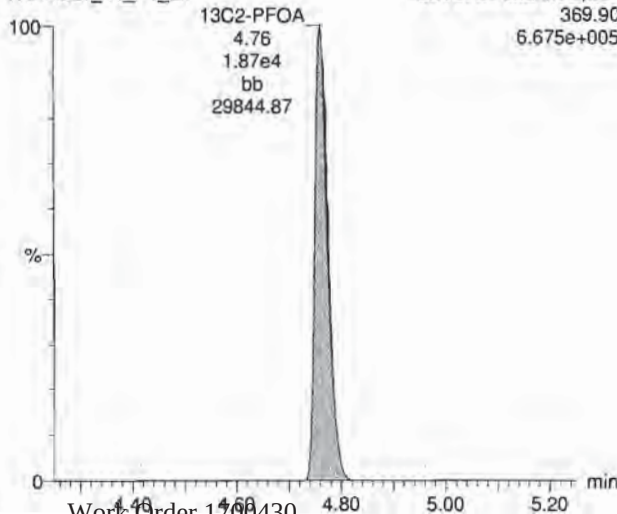
170418L1_06_P1_E1

SIR of 20 channels, ES-
470.00
4.212e+005**d5-N-EtFOSAA**

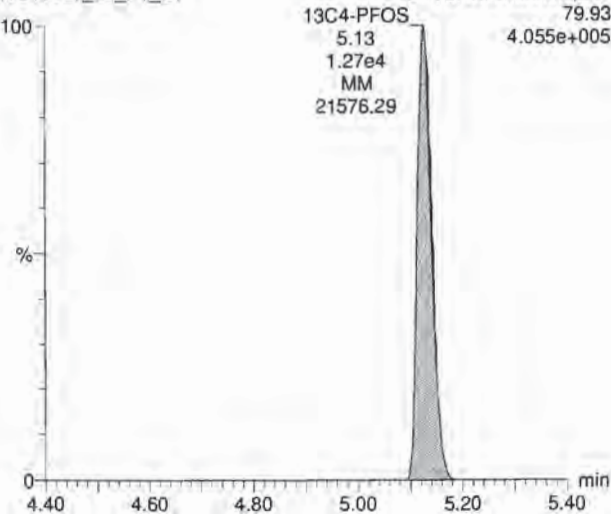
170418L1_06_P1_E1

SIR of 20 channels, ES-
419.02
5.021e+005**13C2-PFOA**

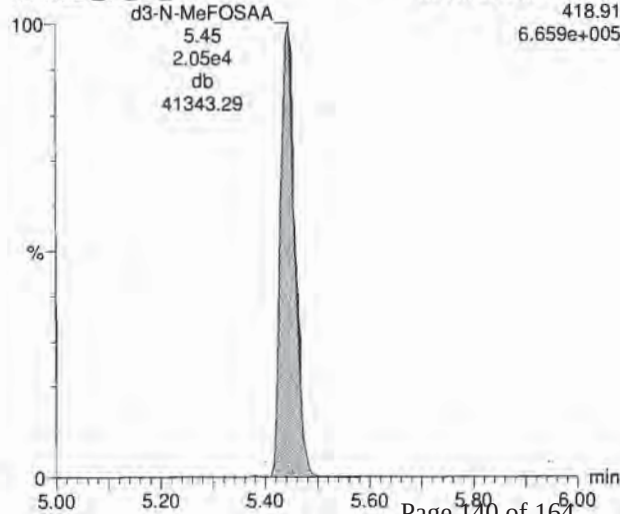
170418L1_06_P1_E1

SIR of 20 channels, ES-
369.90
6.675e+005**13C4-PFOS**

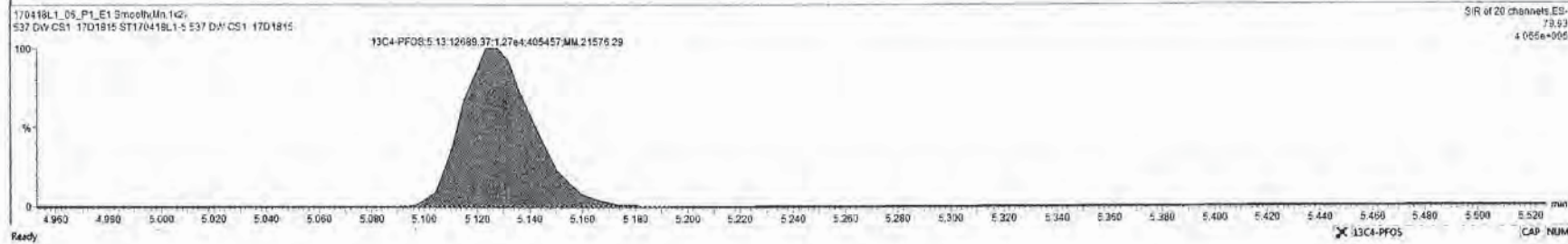
170418L1_06_P1_E1

SIR of 20 channels, ES-
79.93
4.055e+005**d3-N-MeFOSAA**

170418L1_06_P1_E1

SIR of 20 channels, ES-
418.91
6.659e+005

#	Area	Type	Std. Conc.	RT	Area	IS Area	Response	Primary Flag	Conc.	%Dev	Acq.D.	Acq.Ti.	Cal.Date	%Rec	RSP	Divisor
1	170418L1_02_P	Standard	28.700	5.14	14134.172	14134.172	28.700	bb	28.7	0.0	16-Apr	17:00:16	19-Apr	100.0	1.000	1.0
2	170418L1_03_P	Standard	28.700	5.01	14934.122	14934.122	28.700	bb	28.7	0.0	16-Apr	17:12:33	19-Apr	100.0	1.000	1.0
3	170418L1_04_P	Standard	28.700	4.99	15453.572	15453.572	28.700	MM	28.7	0.0	16-Apr	17:24:47	19-Apr	100.0	1.000	1.0
4	170418L1_05_P	Standard	28.700	5.00	15414.172	15414.172	28.700	MM	28.7	0.0	16-Apr	17:36:59	19-Apr	100.0	1.000	1.0
5	170418L1_06_P	Standard	28.700	5.13	12689.372	12689.372	28.700	MM	28.7	0.0	16-Apr	17:49:11	19-Apr	100.0	1.000	1.0
6	170418L1_07_P	Standard	28.700	5.00	14079.500	14079.500	28.700	bb	28.7	0.0	16-Apr	18:01:27	19-Apr	100.0	1.000	1.0
7	170418L1_08_P	Standard	28.700	5.05	13973.907	13973.907	28.700	bb	28.7	0.0	16-Apr	18:13:30	19-Apr	100.0	1.000	1.0
8	170418L1_09_P	Standard	28.700	5.22	16451.129	16451.129	28.700	baX	28.7	0.0	16-Apr	18:25:53	19-Apr	100.0	1.000	1.0



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

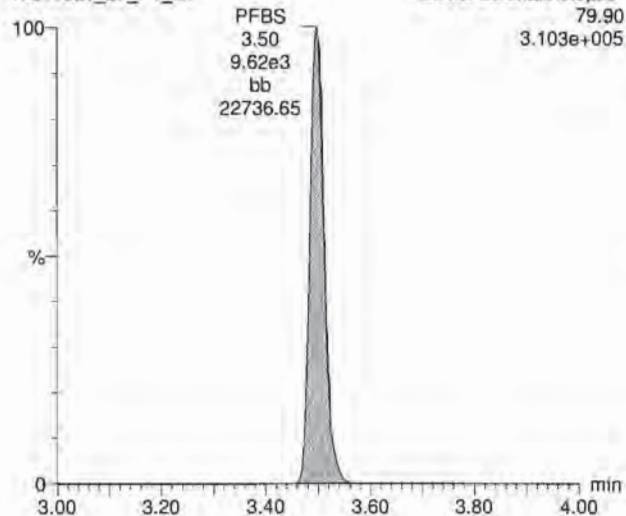
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Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-6 537 DW CS1.2 17D1816, Description: 537 DW CS1.2 17D1816, Name: 170418L1_07.wiff, Date: 18-Apr-2017, Time: 18:01:27, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

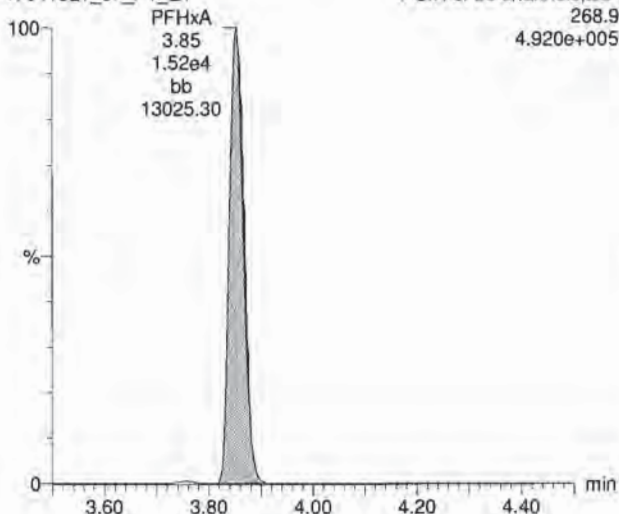
PFBS

170418L1_07_P1_E1



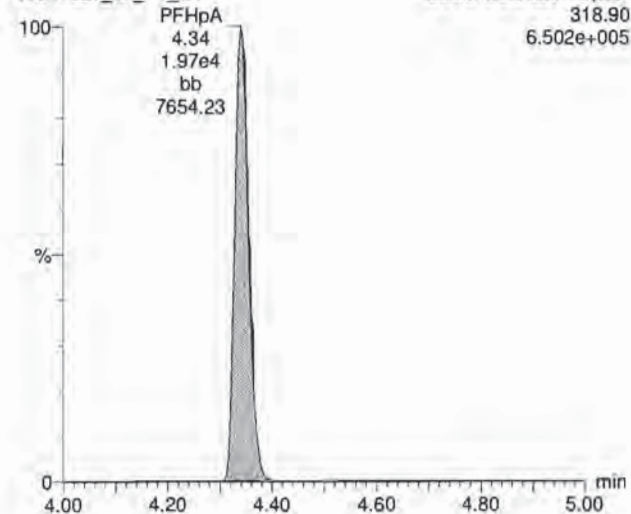
PFHxA

170418L1_07_P1_E1



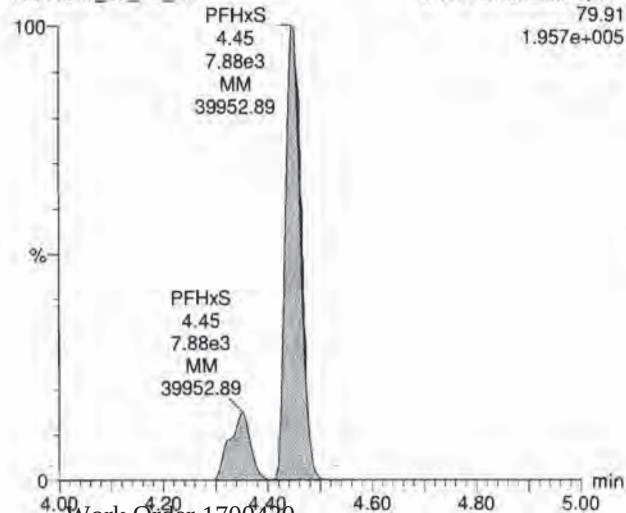
PFHpA

170418L1_07_P1_E1



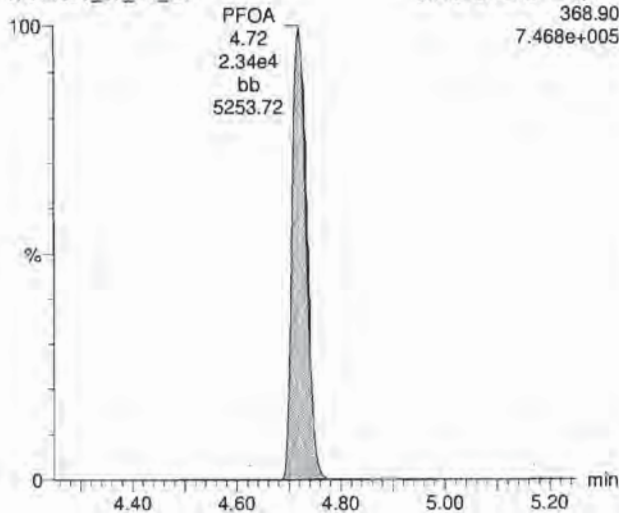
PFHxS

170418L1_07_P1_E1



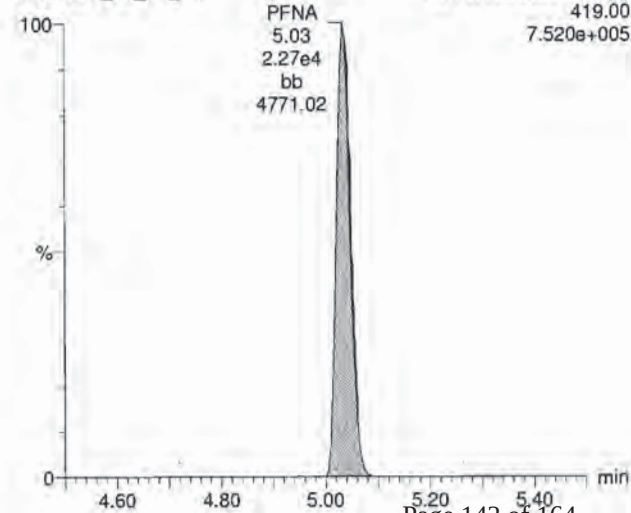
PFOA

170418L1_07_P1_E1



PFNA

170418L1_07_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

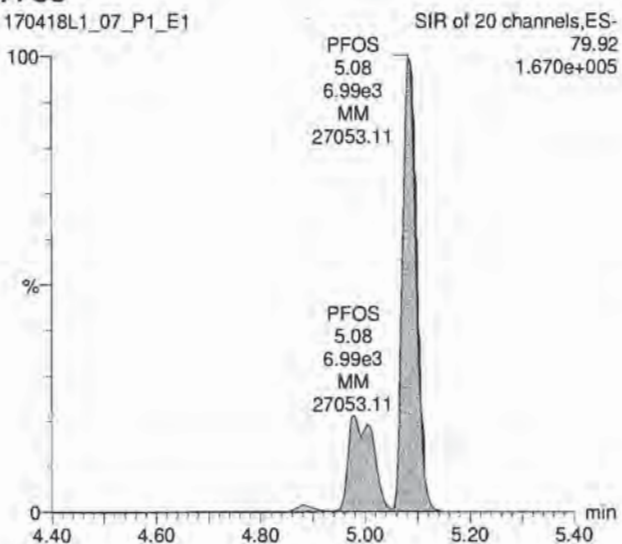
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-6 537 DW CS1.2 17D1816, Description: 537 DW CS1.2 17D1816, Name: 170418L1_07.wiff, Date: 18-Apr-2017, Time: 18:01:27, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

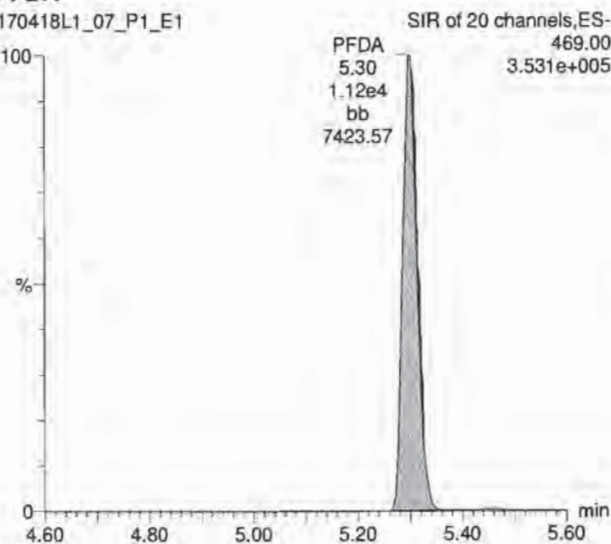
PFOS

170418L1_07_P1_E1



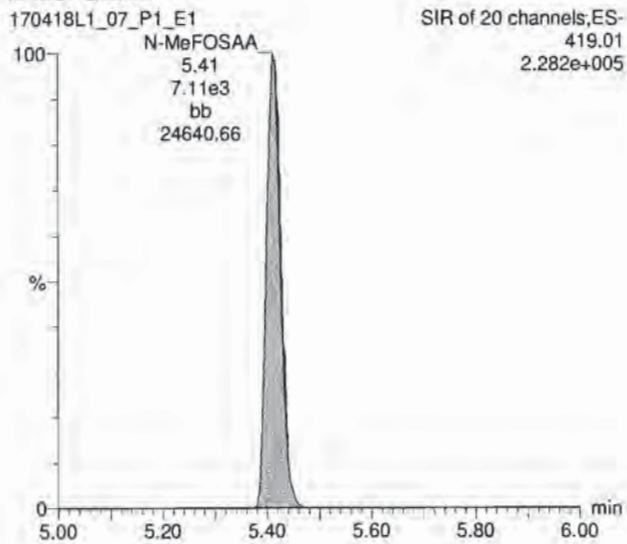
PFDA

170418L1_07_P1_E1



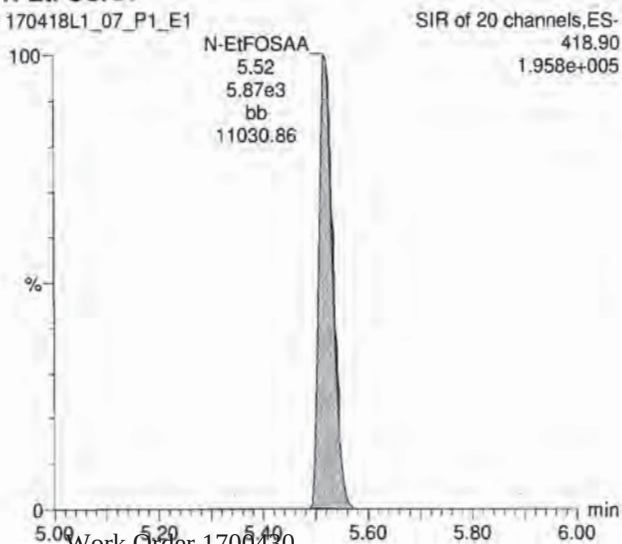
N-MeFOSAA

170418L1_07_P1_E1



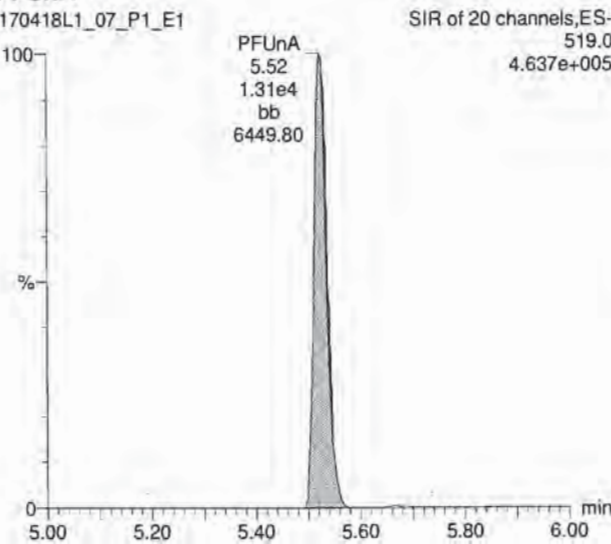
N-EtFOSAA

170418L1_07_P1_E1



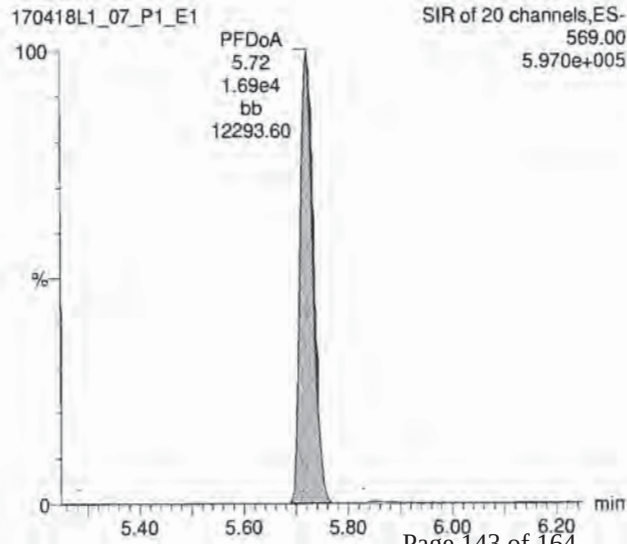
PFUnA

170418L1_07_P1_E1



PFDaA

170418L1_07_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

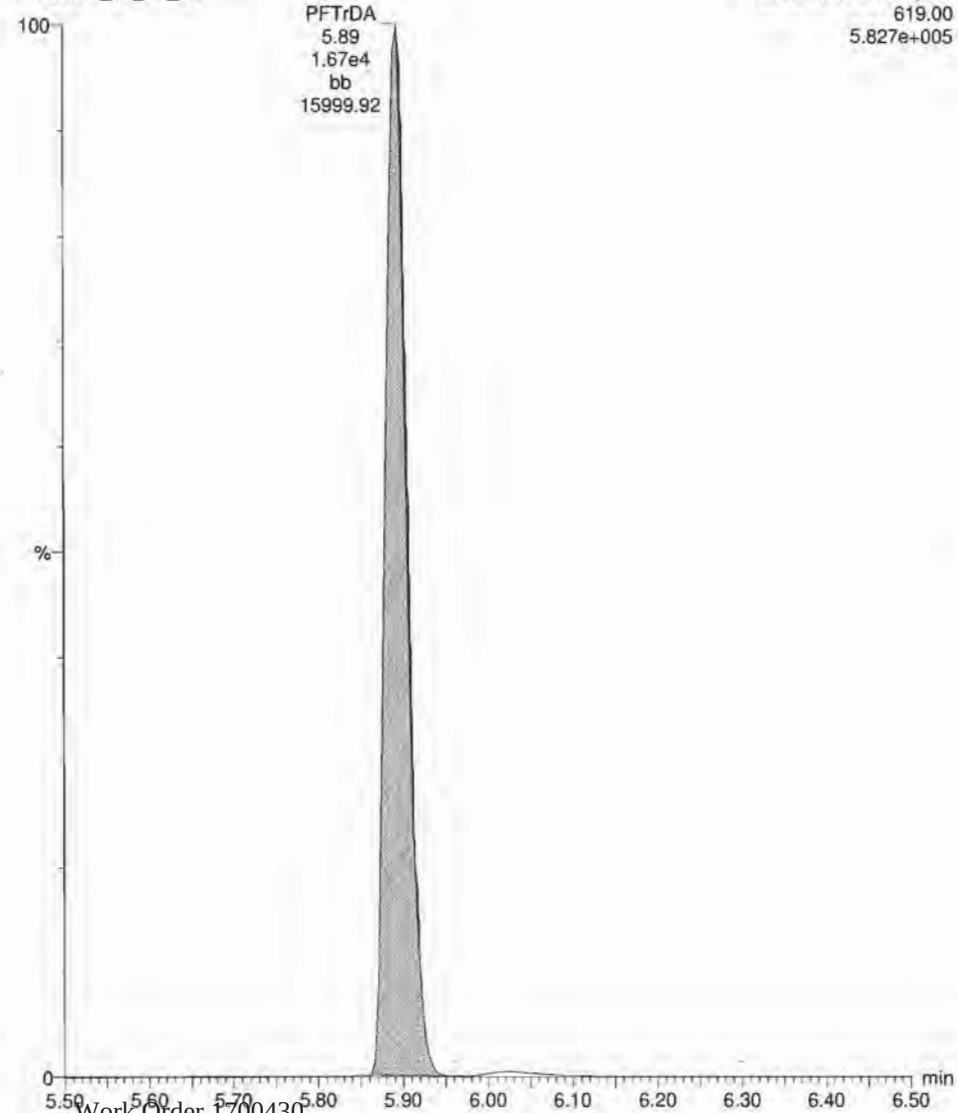
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-6 537 DW CS1.2 17D1816, Description: 537 DW CS1.2 17D1816, Name: 170418L1_07.wiff, Date: 18-Apr-2017, Time: 18:01:27, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

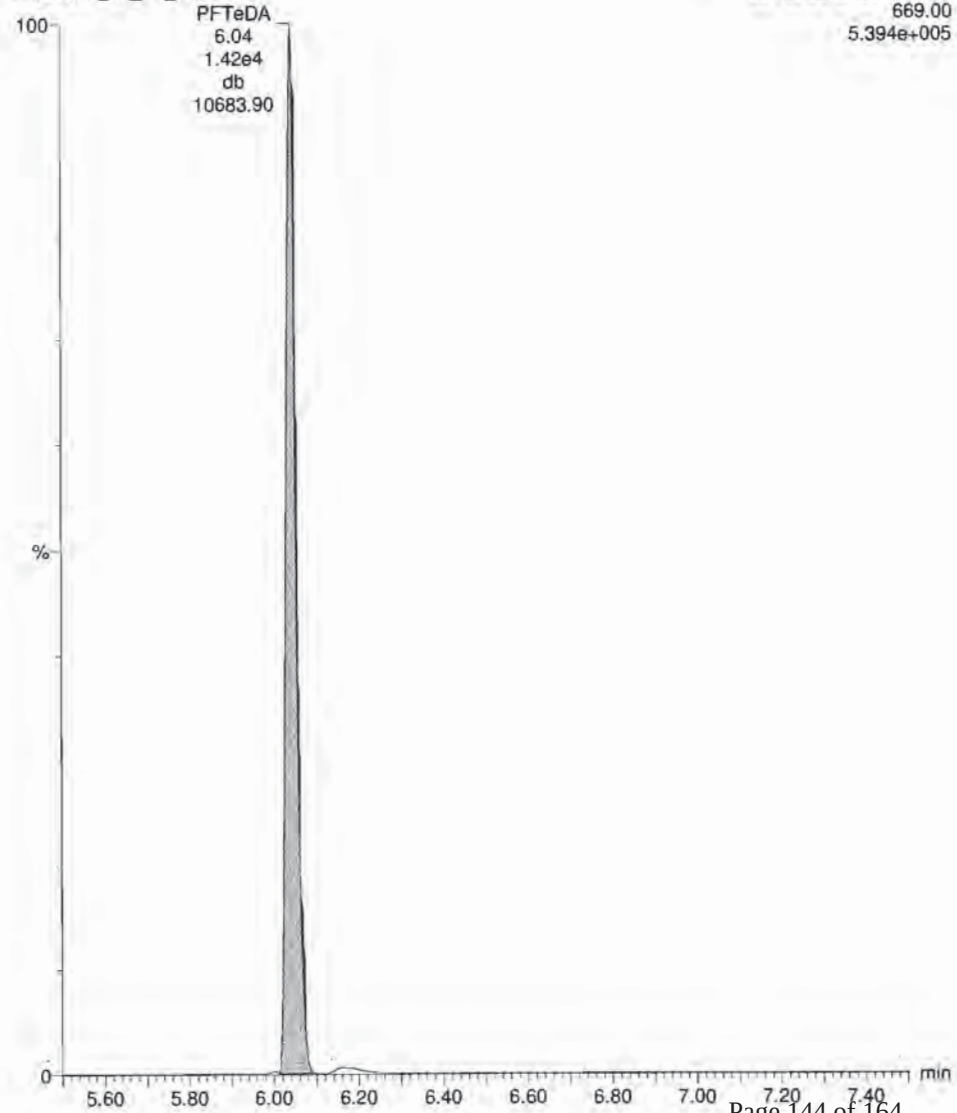
PFTrDA

170418L1_07_P1_E1



PFTeDA

170418L1_07_P1_E1



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

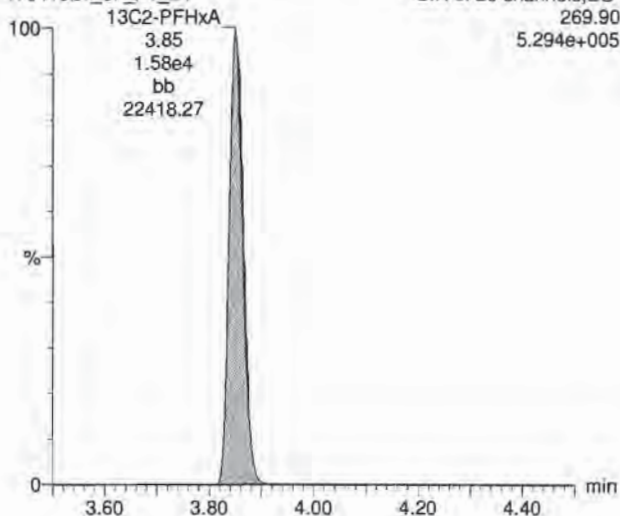
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

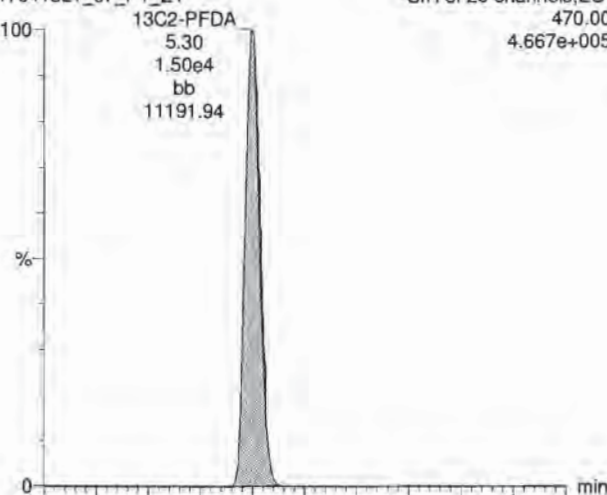
ID: ST170418L1-6 537 DW CS1.2 17D1816, Description: 537 DW CS1.2 17D1816, Name: 170418L1_07.wiff, Date: 18-Apr-2017, Time: 18:01:27, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

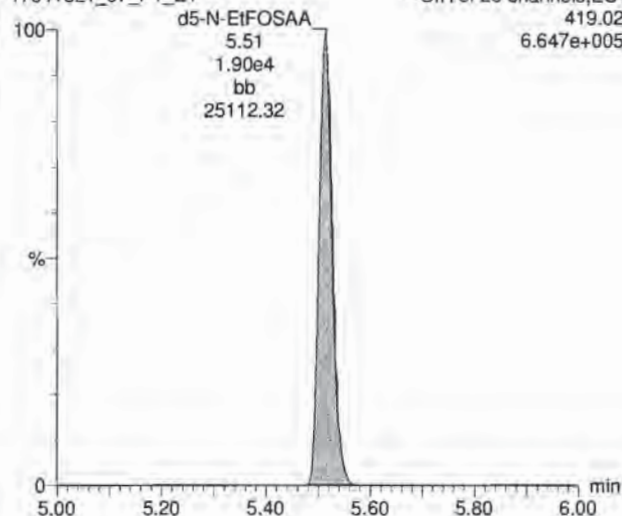
170418L1_07_P1_E1

SIR of 20 channels, ES-
269.90
5.294e+005**13C2-PFDA**

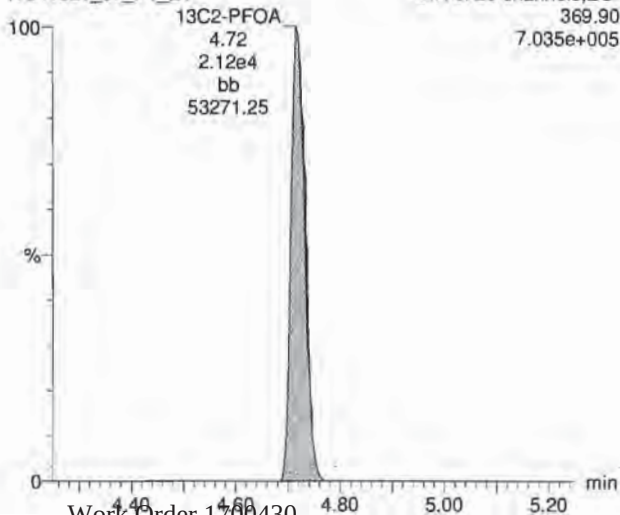
170418L1_07_P1_E1

SIR of 20 channels, ES-
470.00
4.667e+005**d5-N-EtFOSAA**

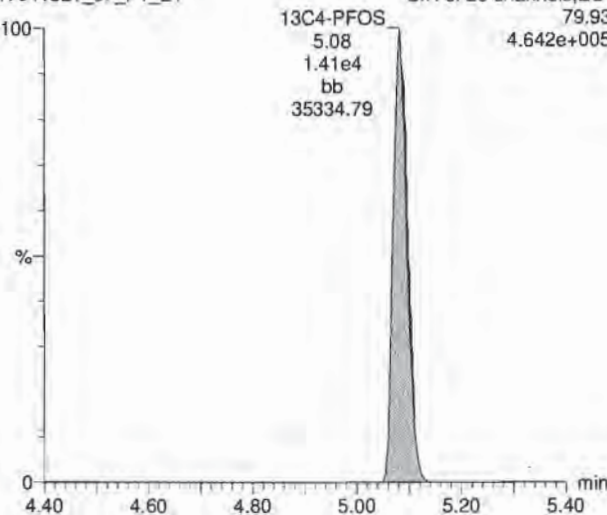
170418L1_07_P1_E1

SIR of 20 channels, ES-
419.02
6.647e+005**13C2-PFOA**

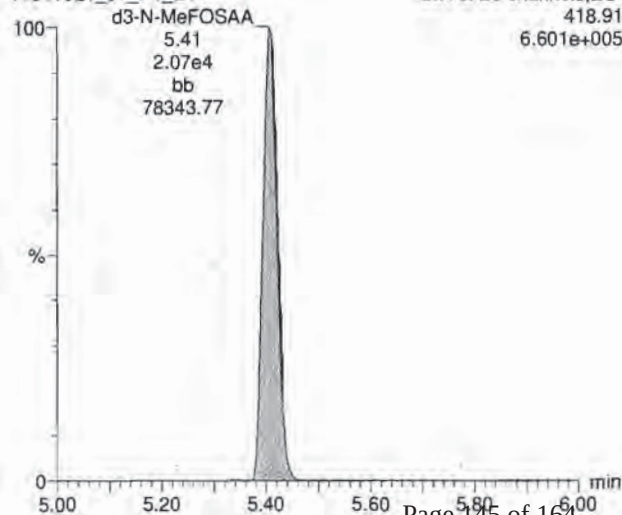
170418L1_07_P1_E1

SIR of 20 channels, ES-
369.90
7.035e+005**13C4-PFOS**

170418L1_07_P1_E1

SIR of 20 channels, ES-
79.93
4.642e+005**d3-N-MeFOSAA**

170418L1_07_P1_E1

SIR of 20 channels, ES-
418.91
6.601e+005

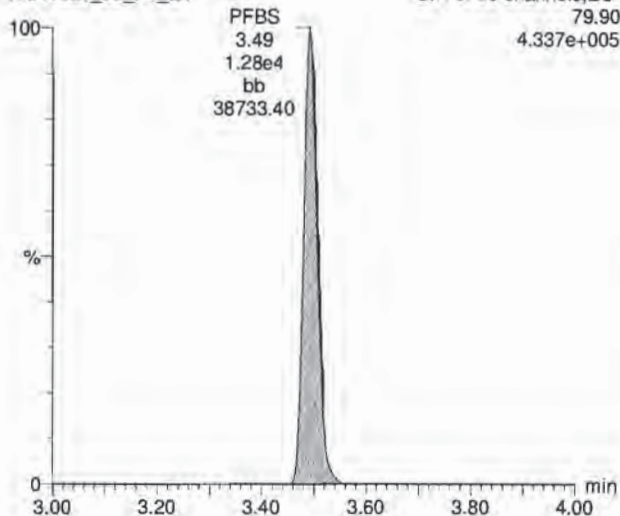
Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-7 537 DW CS1.3 17D1817, Description: 537 DW CS1.3 17D1817, Name: 170418L1_08.wiff, Date: 18-Apr-2017, Time: 18:13:38, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

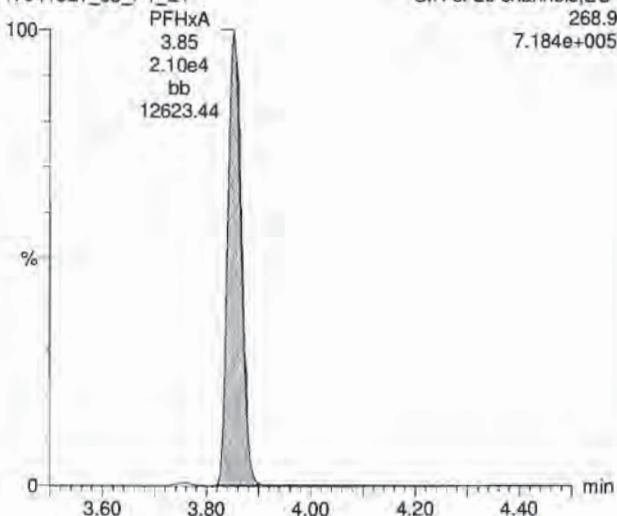
PFBS

170418L1_08_P1_E1



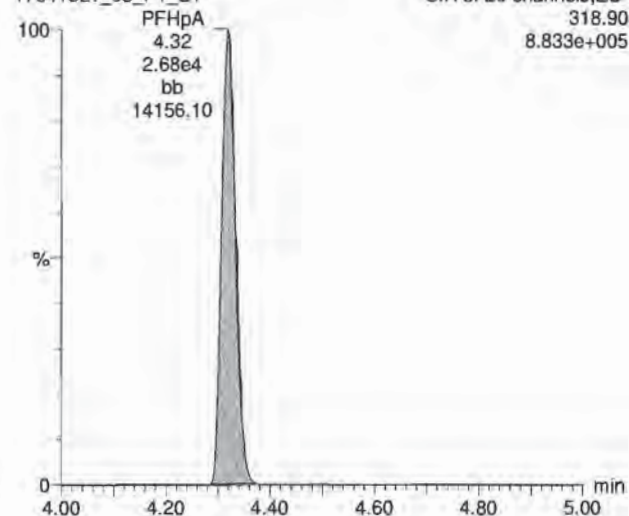
PFHxA

170418L1_08_P1_E1



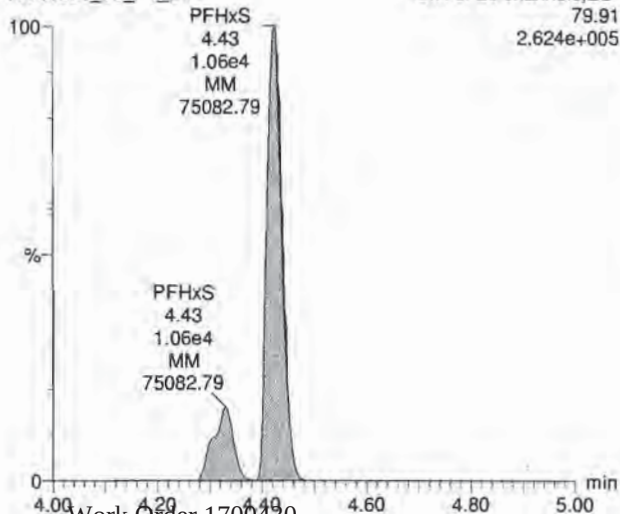
PFHpA

170418L1_08_P1_E1



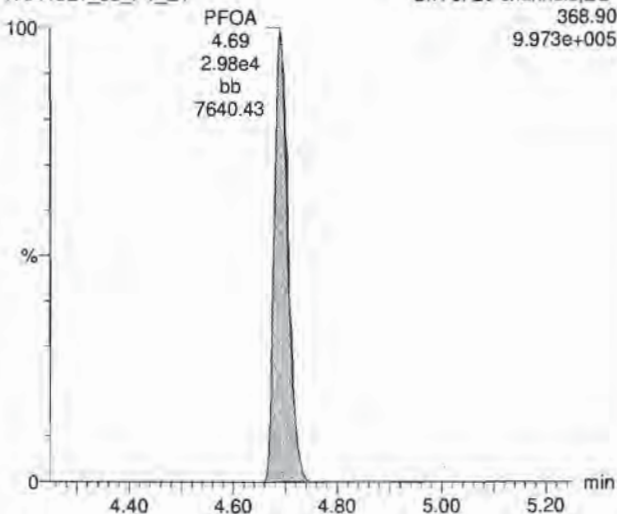
PFHxS

170418L1_08_P1_E1



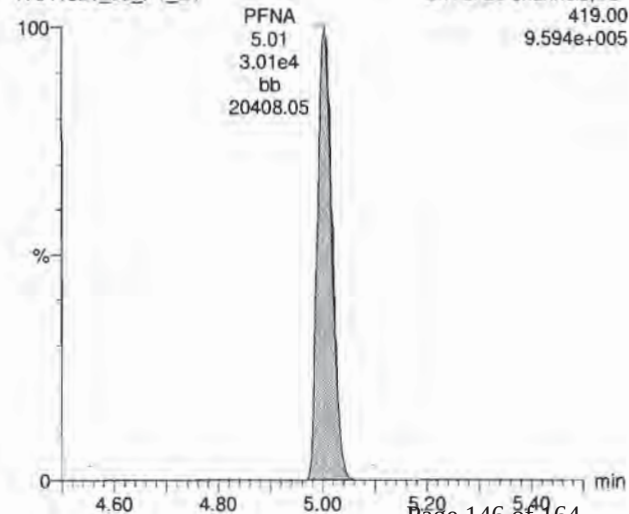
PFOA

170418L1_08_P1_E1



PFNA

170418L1_08_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

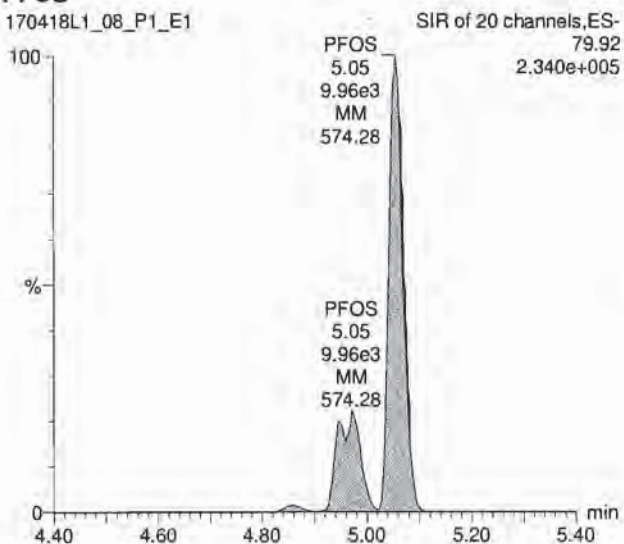
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

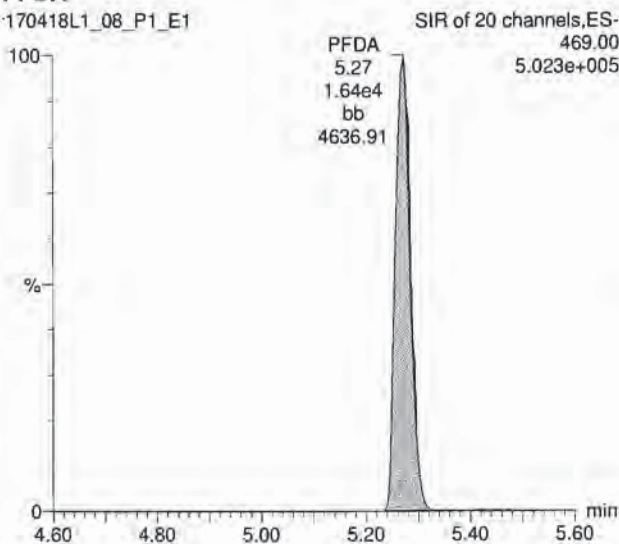
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Lab: ©PE-SCIEX, User: sciex

PFOS

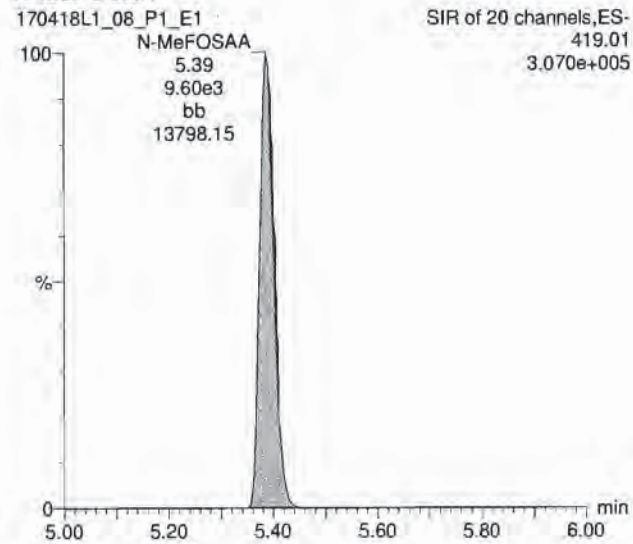
170418L1_08_P1_E1

**PFDA**

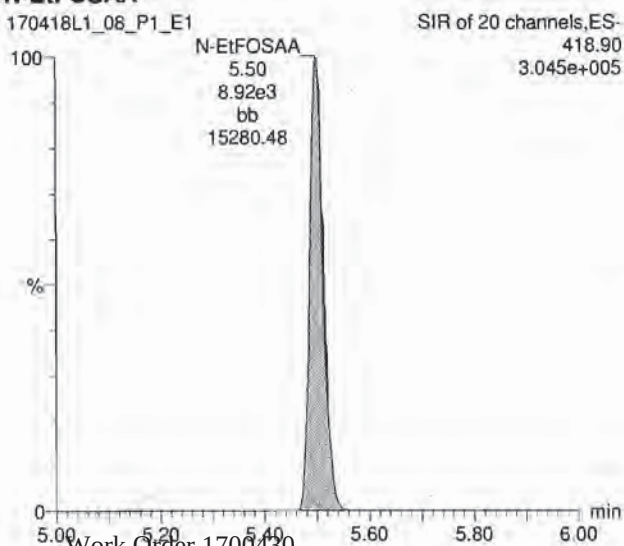
170418L1_08_P1_E1

**N-MeFOSAA**

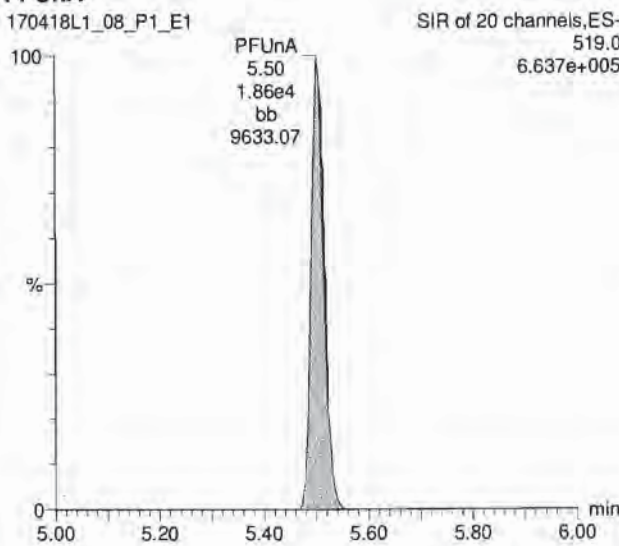
170418L1_08_P1_E1

**N-EtFOSAA**

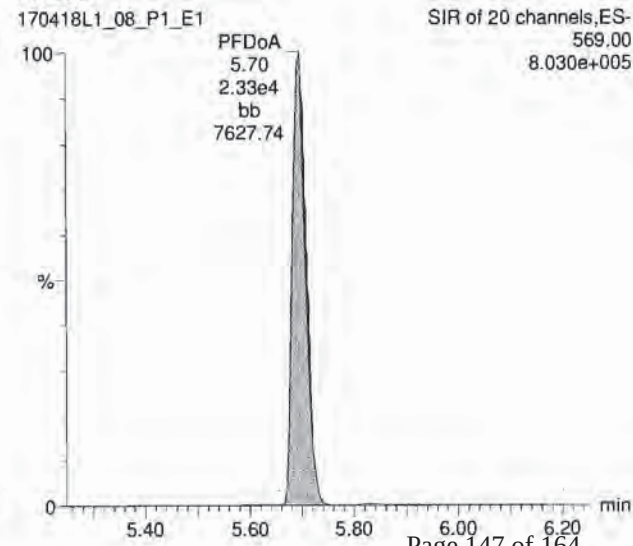
170418L1_08_P1_E1

**PFUnA**

170418L1_08_P1_E1

**PFDaA**

170418L1_08_P1_E1



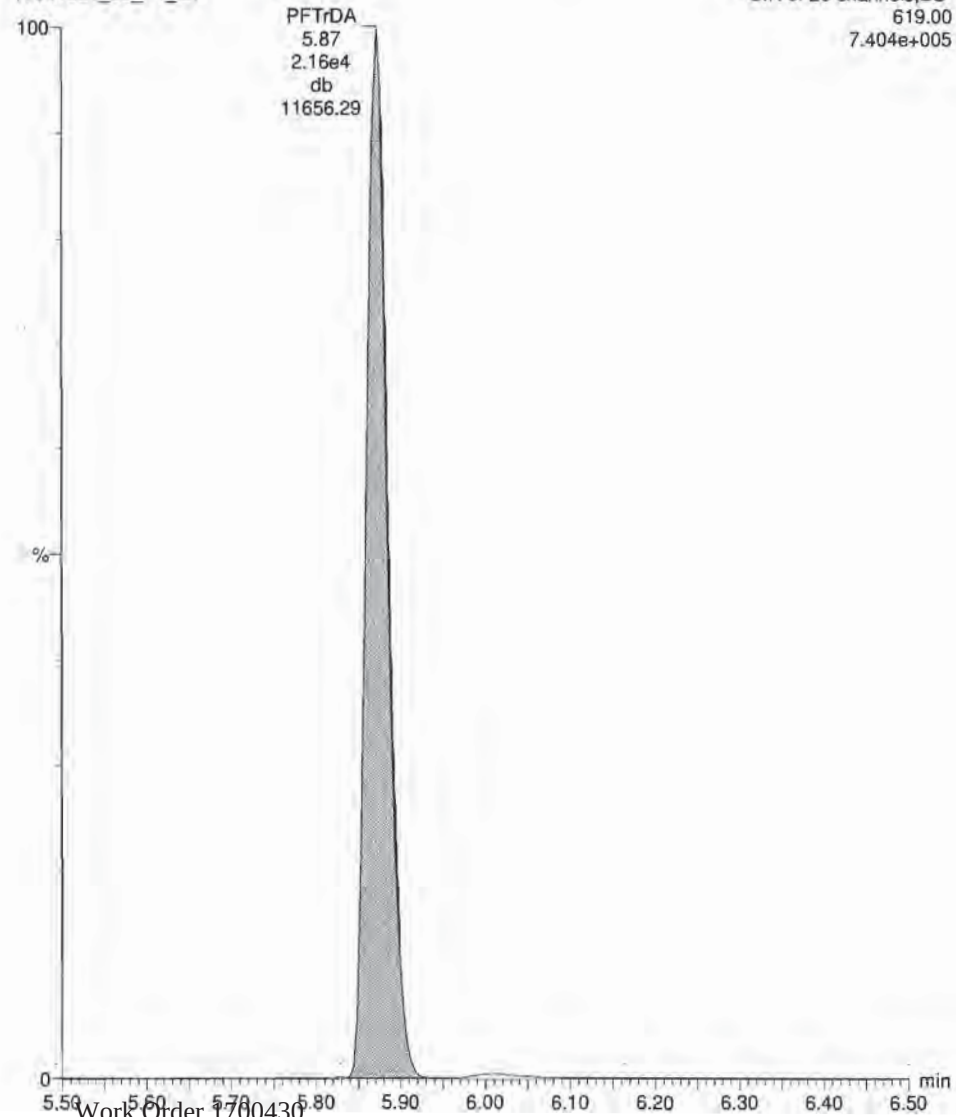
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Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-7 537 DW CS1.3 17D1817, Description: 537 DW CS1.3 17D1817, Name: 170418L1_08.wiff, Date: 18-Apr-2017, Time: 18:13:38, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

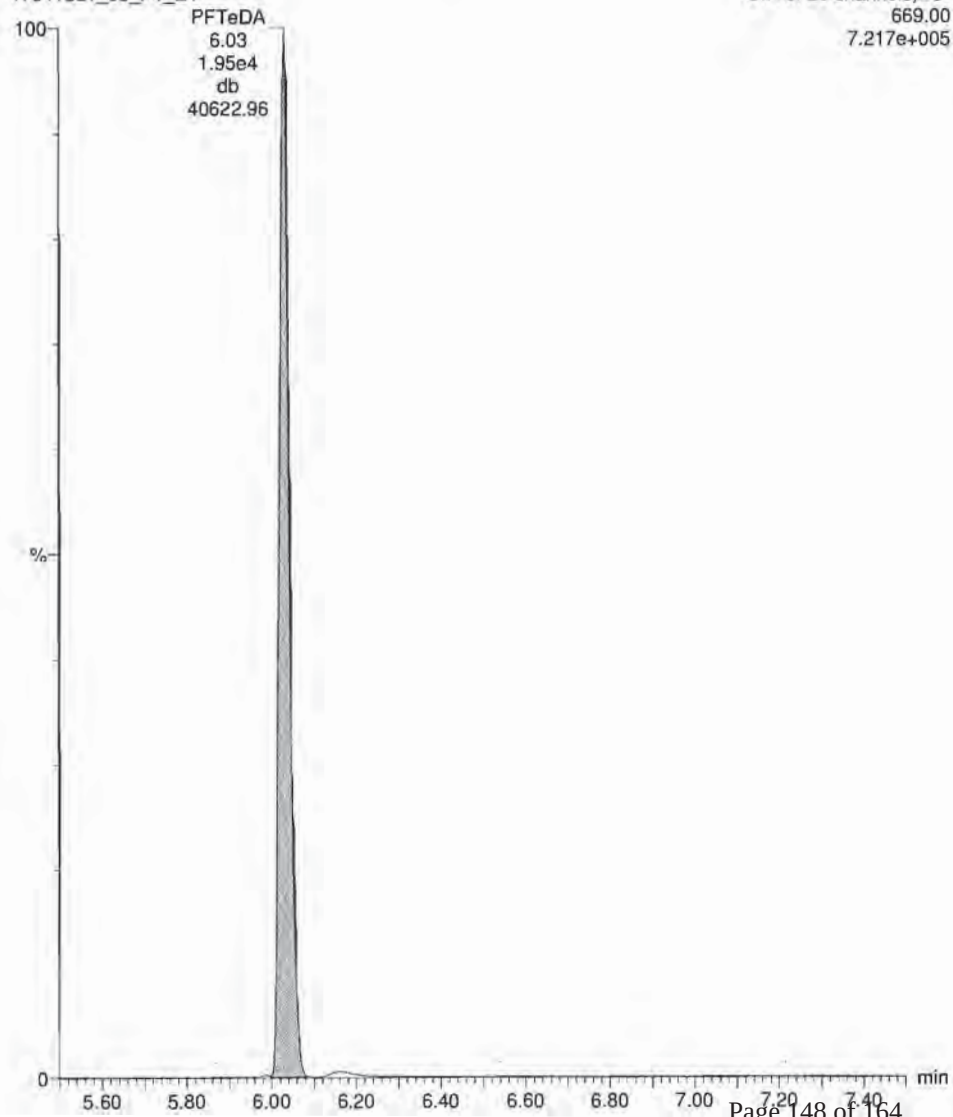
PFTrDA

170418L1_08_P1_E1



PFTeDA

170418L1_08_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

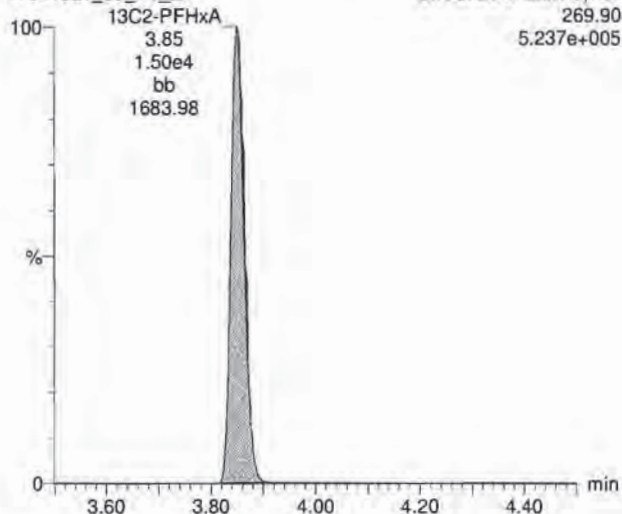
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

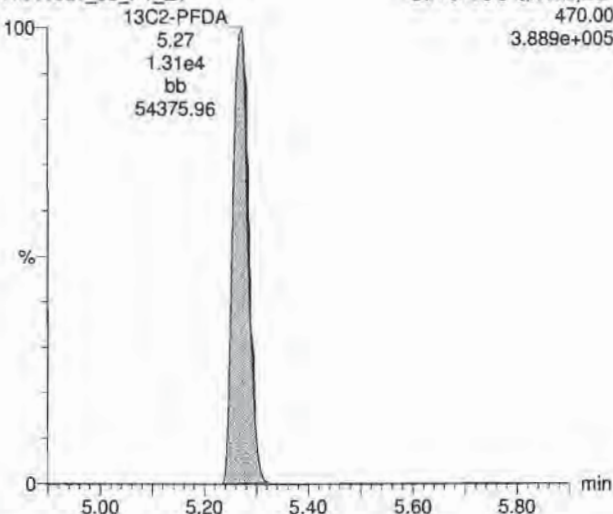
ID: ST170418L1-7 537 DW CS1.3 17D1817, Description: 537 DW CS1.3 17D1817, Name: 170418L1_08.wiff, Date: 18-Apr-2017, Time: 18:13:38, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

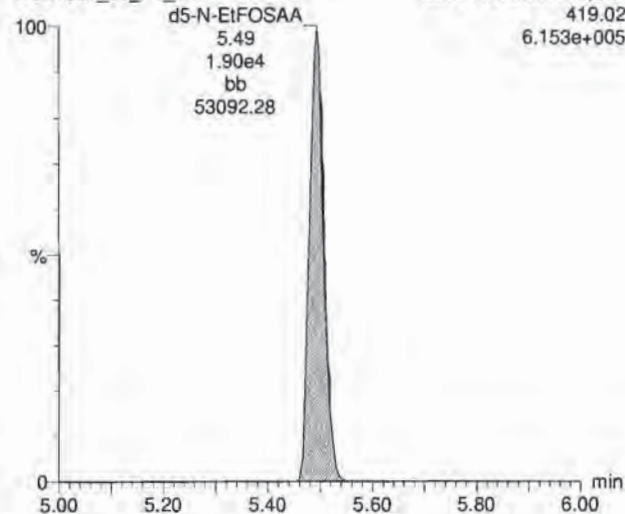
170418L1_08_P1_E1

SIR of 20 channels, ES-
269.90
5.237e+005**13C2-PFDA**

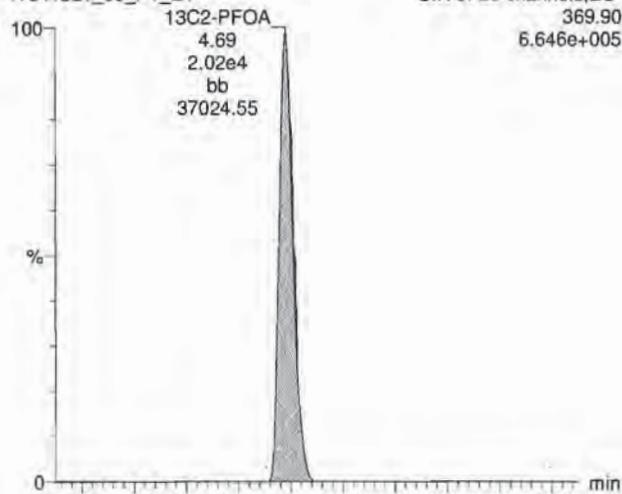
170418L1_08_P1_E1

SIR of 20 channels, ES-
470.00
3.889e+005**d5-N-EtFOSAA**

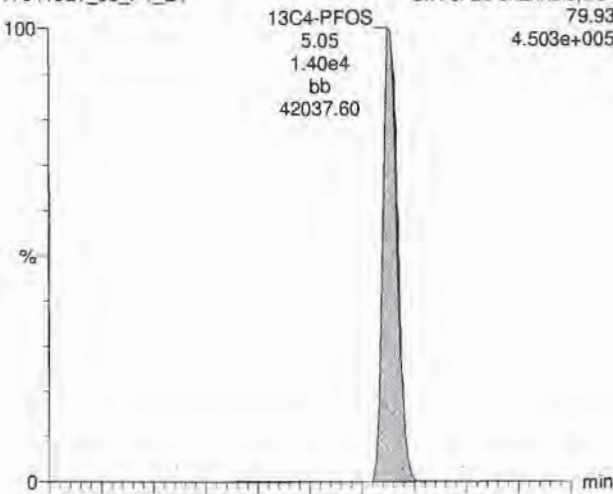
170418L1_08_P1_E1

SIR of 20 channels, ES-
419.02
6.153e+005**13C2-PFOA**

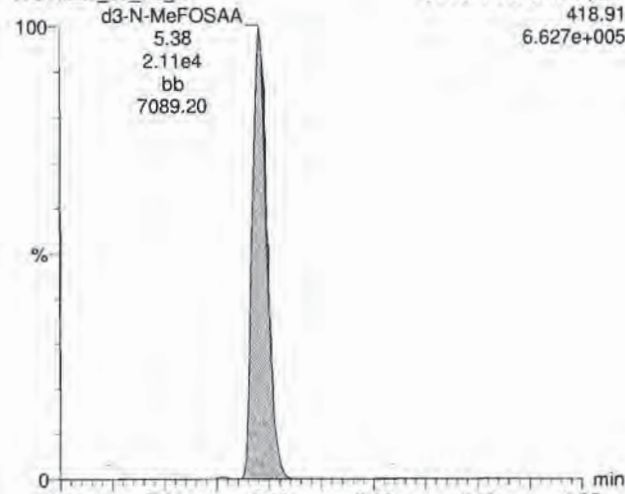
170418L1_08_P1_E1

SIR of 20 channels, ES-
369.90
6.646e+005**13C4-PFOS**

170418L1_08_P1_E1

SIR of 20 channels, ES-
79.93
4.503e+005**d3-N-MeFOSAA**

170418L1_08_P1_E1

SIR of 20 channels, ES-
418.91
6.627e+005

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

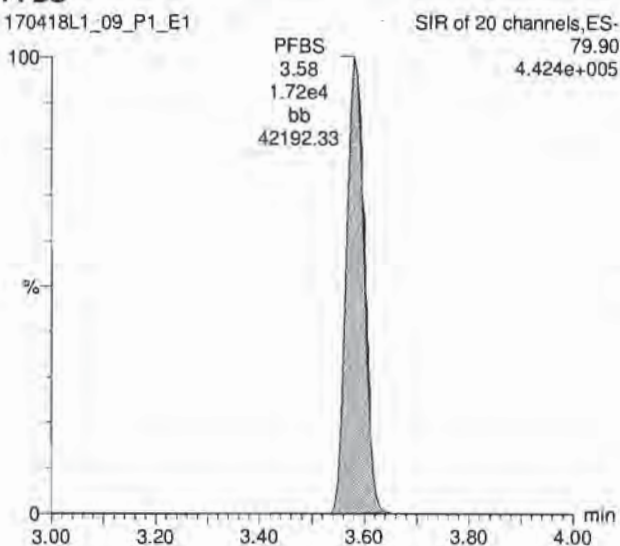
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-8 537 DW CS1.5 17D1818, Description: 537 DW CS1.5 17D1818, Name: 170418L1_09.wiff, Date: 18-Apr-2017, Time: 18:25:53, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

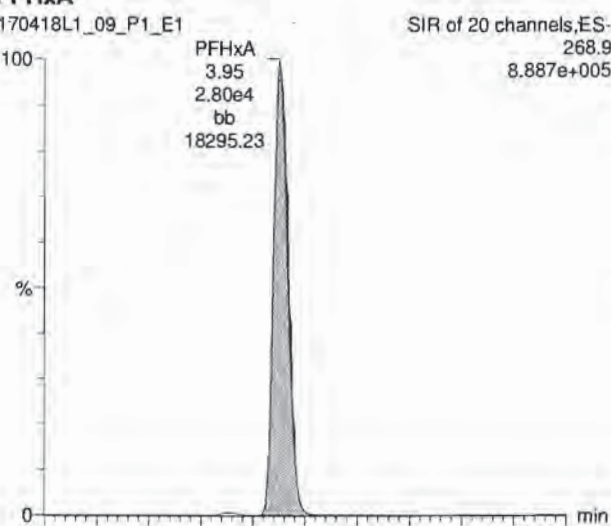
PFBS

170418L1_09_P1_E1



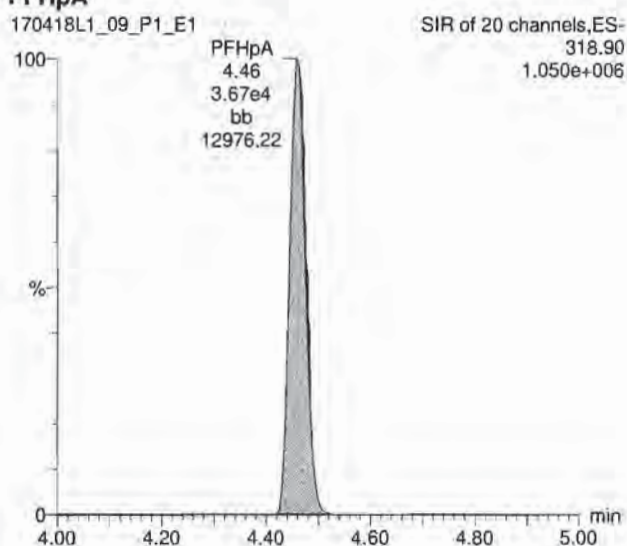
PFHxA

170418L1_09_P1_E1



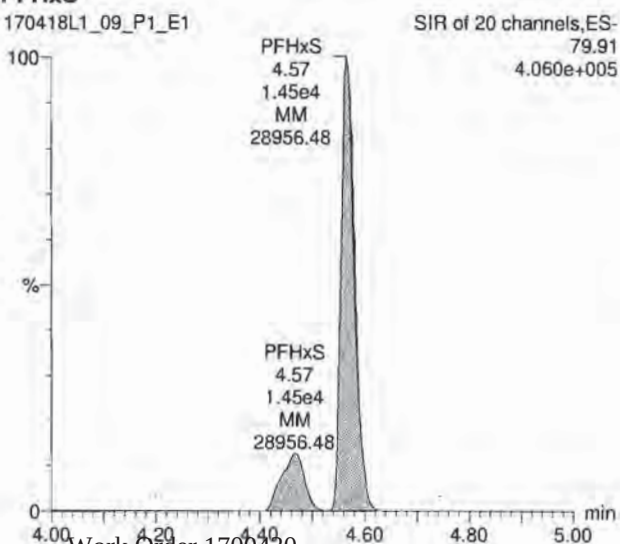
PFHpA

170418L1_09_P1_E1



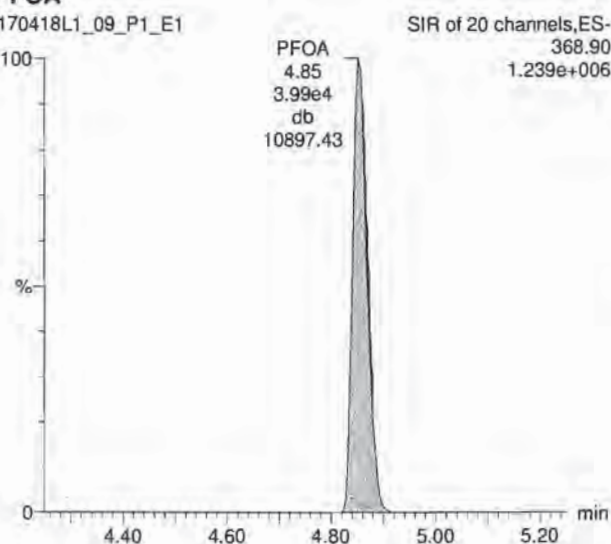
PFHxS

170418L1_09_P1_E1



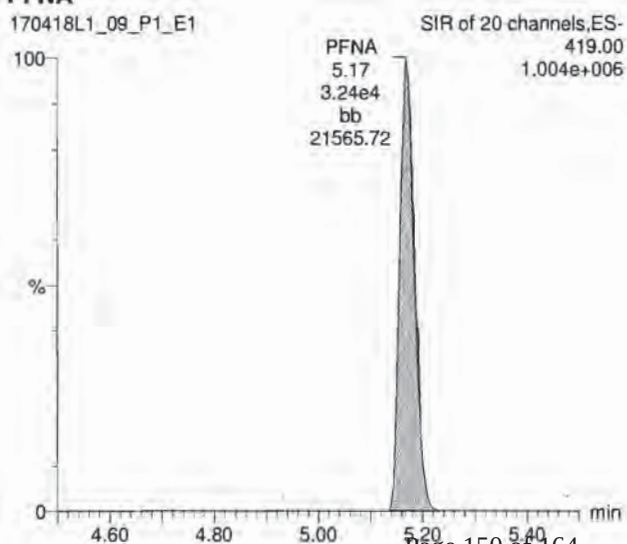
PFOA

170418L1_09_P1_E1



PFNA

170418L1_09_P1_E1



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

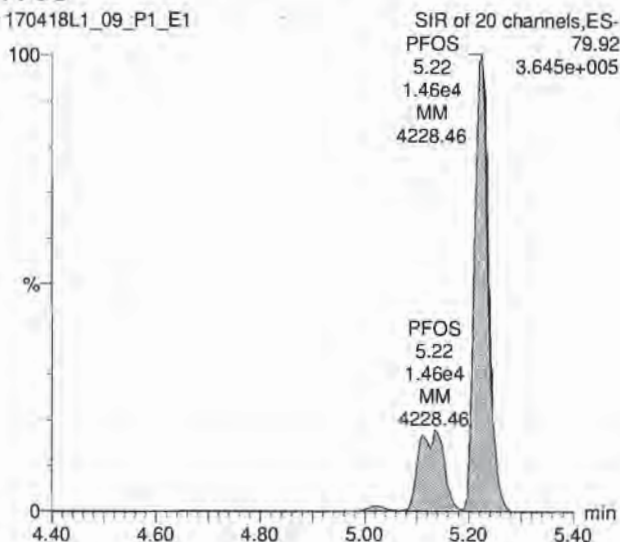
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

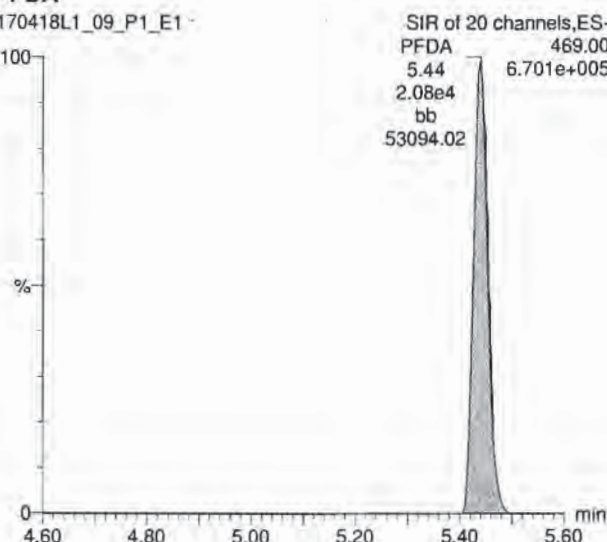
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Lab: ©PE-SCIEX, User: sciex

PFOS

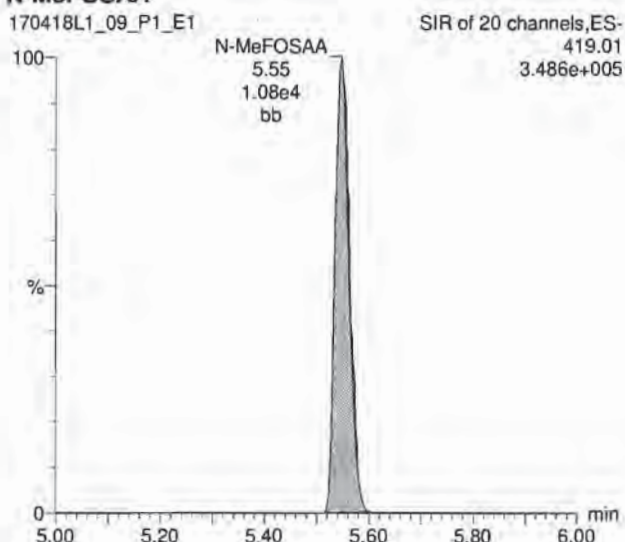
170418L1_09_P1_E1

**PFDA**

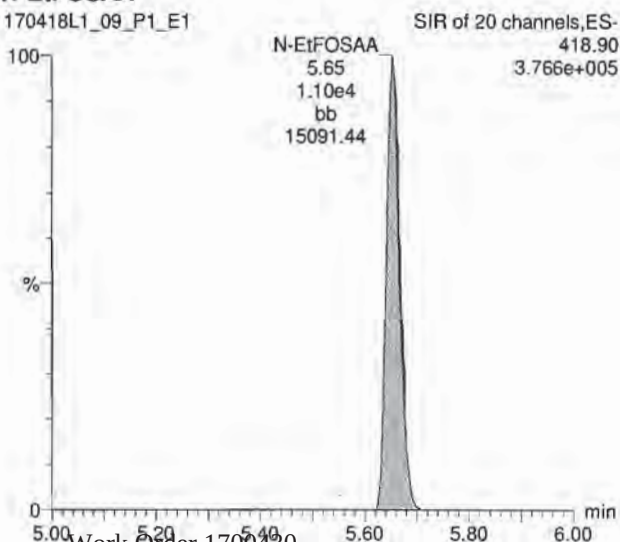
170418L1_09_P1_E1

**N-MeFOSAA**

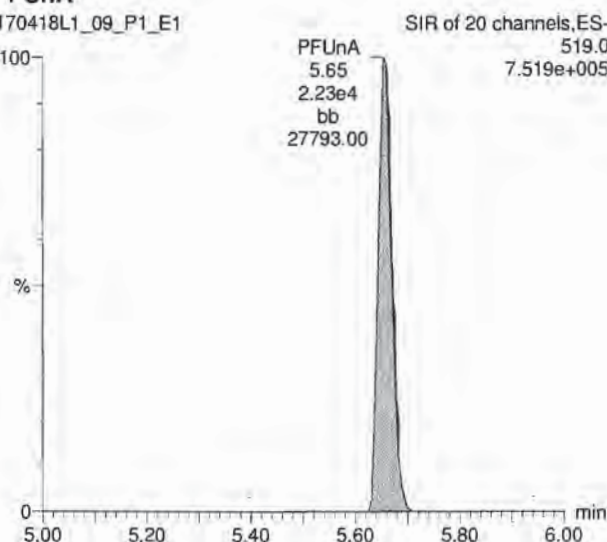
170418L1_09_P1_E1

**N-EtFOSAA**

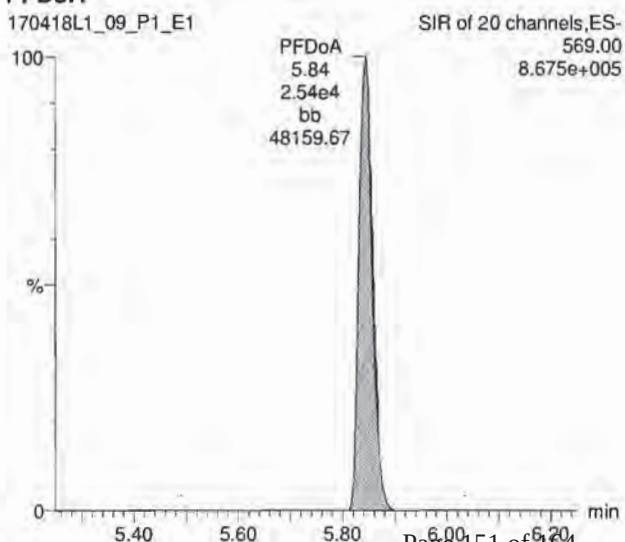
170418L1_09_P1_E1

**PFUnA**

170418L1_09_P1_E1

**PFDaA**

170418L1_09_P1_E1



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

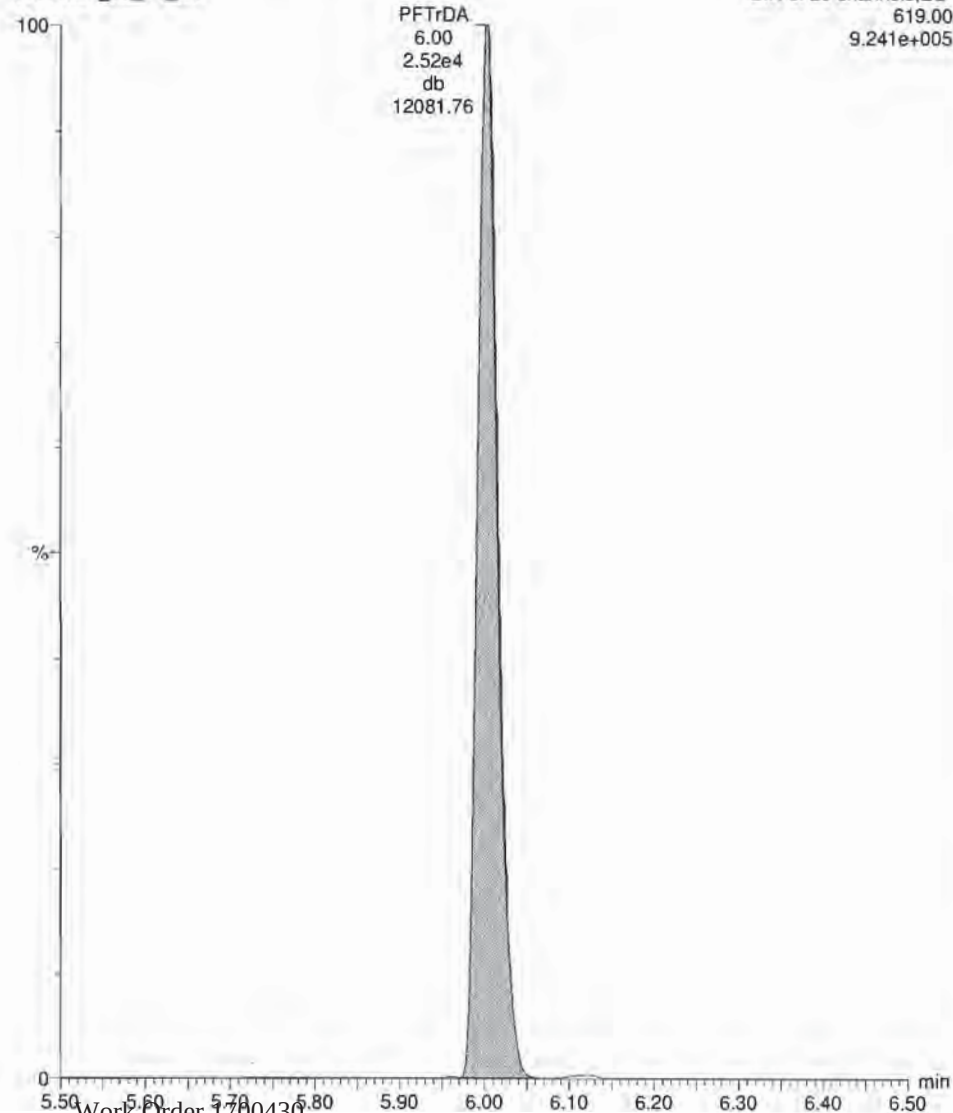
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-8 537 DW CS1.5 17D1818, Description: 537 DW CS1.5 17D1818, Name: 170418L1_09.wiff, Date: 18-Apr-2017, Time: 18:25:53, Instrument: , Lab: ©PE-SCIEX, User: sciex

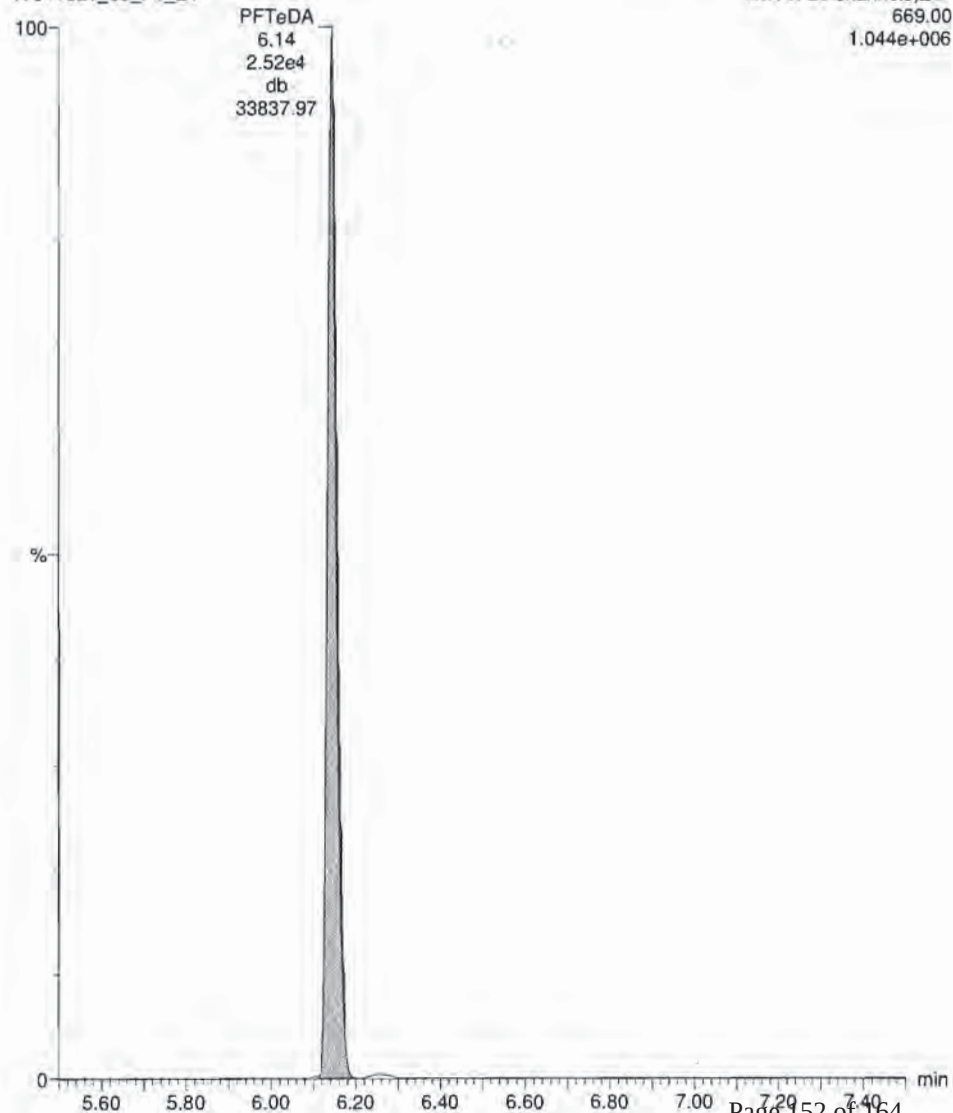
PFTTrDA

170418L1_09_P1_E1



PFTeDA

170418L1_09_P1_E1



Dataset: U:\Q2.PRO\Results\New folder\170418L1-CRV.qld

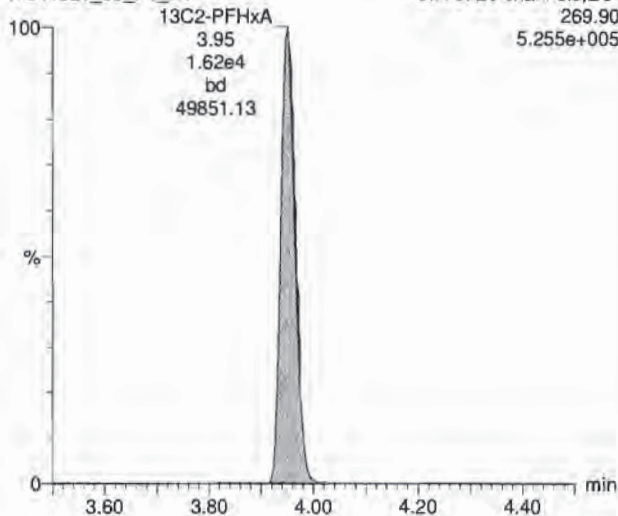
Last Altered: Wednesday, April 19, 2017 09:10:24 Pacific Daylight Time
Printed: Wednesday, April 19, 2017 09:55:43 Pacific Daylight Time

ID: ST170418L1-8 537 DW CS1.5 17D1818, Description: 537 DW CS1.5 17D1818, Name: 170418L1_09.wiff, Date: 18-Apr-2017, Time: 18:25:53, Instrument: ,
Lab: ©PE-SCIEX, User: sciex

13C2-PFHxA

170418L1_09_P1_E1

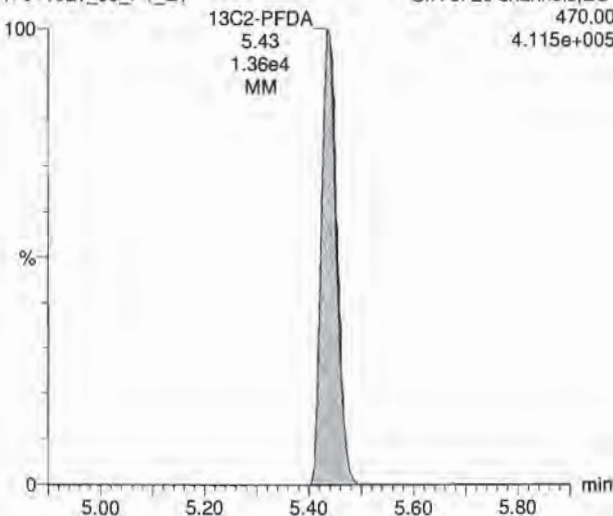
SIR of 20 channels,ES-
269.90
5.255e+005



13C2-PFDA

170418L1_09_P1_E1

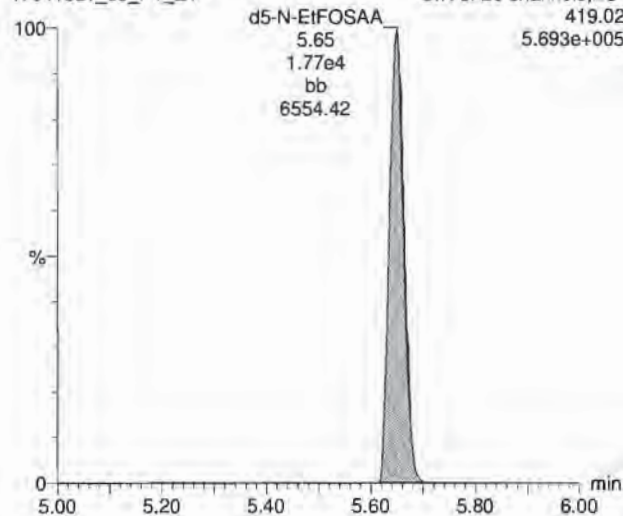
SIR of 20 channels,ES-
470.00
4.115e+005



d5-N-EtFOSAA

170418L1_09_P1_E1

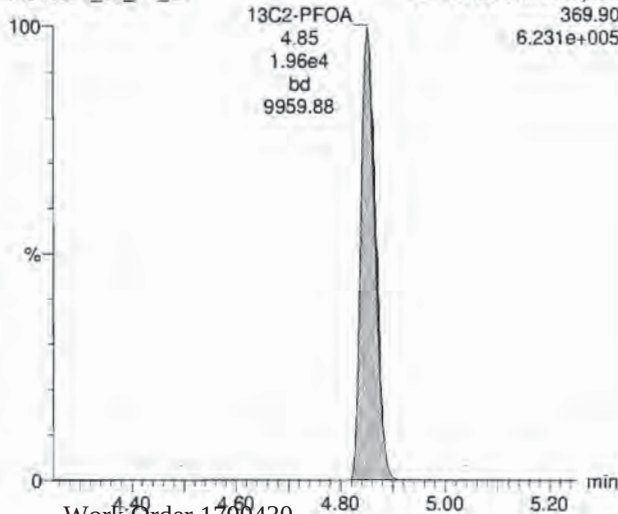
SIR of 20 channels,ES-
419.02
5.693e+005



13C2-PFOA

170418L1_09_P1_E1

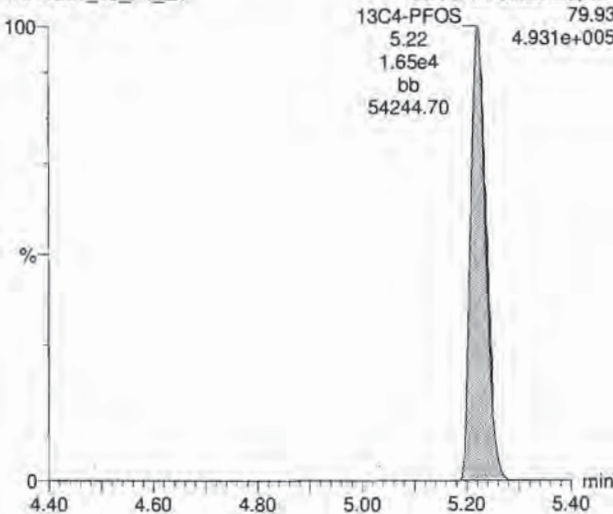
SIR of 20 channels,ES-
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6.231e+005



13C4-PFOS

170418L1_09_P1_E1

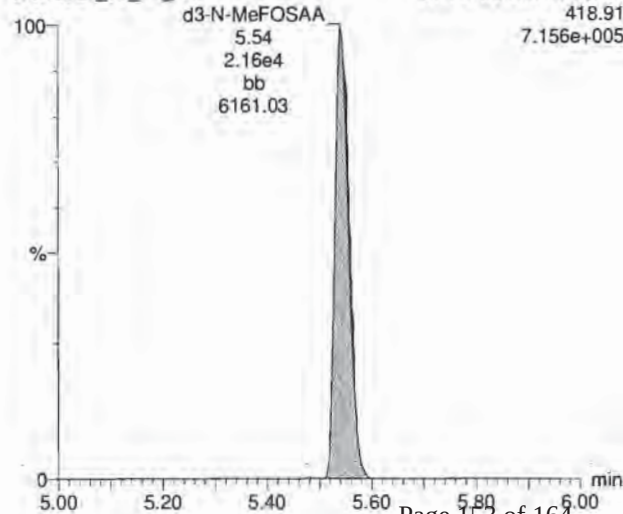
SIR of 20 channels,ES-
79.93
4.931e+005



d3-N-MeFOSAA

170418L1_09_P1_E1

SIR of 20 channels,ES-
418.91
7.156e+005



Dataset: U:\Q2.PRO\Results\New folder\170418L1-11.qld

Last Altered: Wednesday, April 19, 2017 10:10:47 Pacific Daylight Time

Printed: Wednesday, April 19, 2017 10:13:03 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 14_537_DW.mdb 19 Apr 2017 08:50:13

Calibration: U:\Q2.PRO\CurveDB\C18_537_Q3_04-18-17_L14.cdb 19 Apr 2017 09:10:24

Name: 170418L1_11.wiff, Date: 18-Apr-2017, Time: 18:50:21, ID: SS170418L1-1 537 DW SSS 17D1821, Description: 537 DW SSS 17D1821

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1	PFBS	79.90	1.05e4	2.02e4		1.000	3.54	9.54	95.4
2	2	PFHxA	268.9	1.55e4	2.02e4		1.000	3.91	9.49	94.9
3	3	PFHpA	318.90	2.13e4	2.42e4		1.000	4.44	12.4	124.5
4	4	PFHxS	79.91	7.99e3	2.02e4		1.000	4.54	8.88	88.8
5	5	PFOA	368.90	2.27e4	2.42e4		1.000	4.83	11.6	116.1
6	6	PFNA	419.00	1.75e4	2.42e4		1.000	5.15	9.42	94.2
7	7	PFOS	79.92	7.62e3	2.02e4		1.000	5.20	9.47	94.7
8	8	PFDA	469.00	1.15e4	2.42e4		1.000	5.41	11.6	115.6
9	9	N-MeFOSAA	419.01	5.00e3	2.61e4		1.000	5.52	8.12	81.2
10	10	N-EtFOSAA	418.90	6.07e3	2.61e4		1.000	5.63	11.1	110.6
11	11	PFUnA	519.0	1.13e4	2.42e4		1.000	5.63	10.0	100.2
12	12	PFDoA	569.00	1.50e4	2.42e4		1.000	5.83	10.6	106.2
13	13	PFTTrDA	619.00	1.45e4	2.42e4		1.000	5.99	10.8	107.8
14	14	PFTeDA	669.00	1.35e4	2.42e4		1.000	6.12	11.0	109.9
15	15	13C2-PFHxA	269.90	1.70e4	2.42e4	0.742	1.000	3.91	9.45	94.5
16	16	13C2-PFDA	470.00	1.57e4	2.42e4	0.678	1.000	5.41	9.59	95.9
17	17	d5-N-EtFOSAA	419.02	2.11e4	2.61e4	0.846	1.000	5.62	38.2	95.6
18	18	13C2-PFOA	369.90	2.42e4	2.42e4	1.000	1.000	4.82	10.0	100.0
19	19	13C4-PFOS	79.93	2.02e4	2.02e4	1.000	1.000	5.20	28.7	100.0
20	20	d3-N-MeFOSAA	418.91	2.61e4	2.61e4	1.000	1.000	5.51	40.0	100.0

70-130

70-130

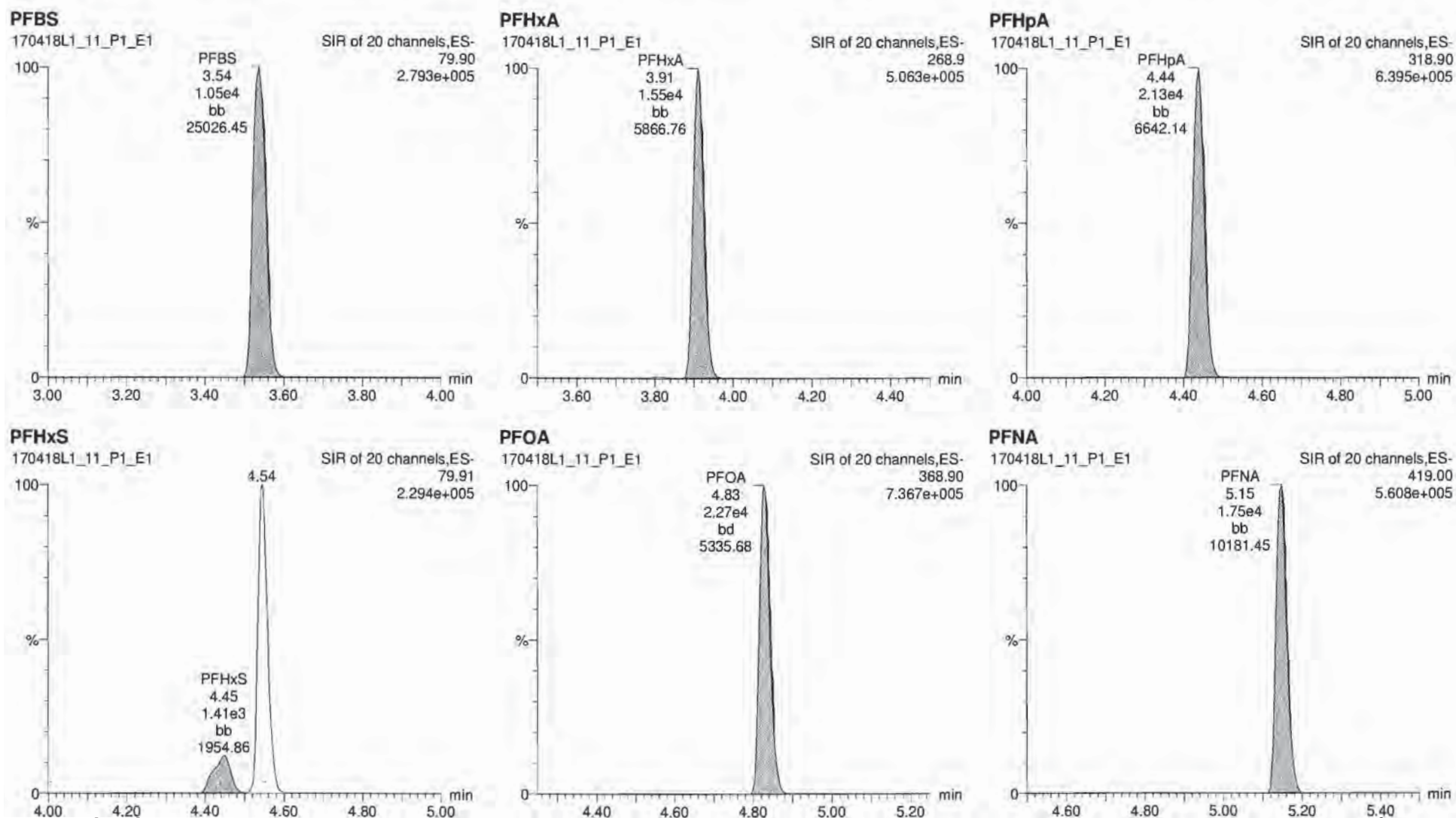
8/4/19/17

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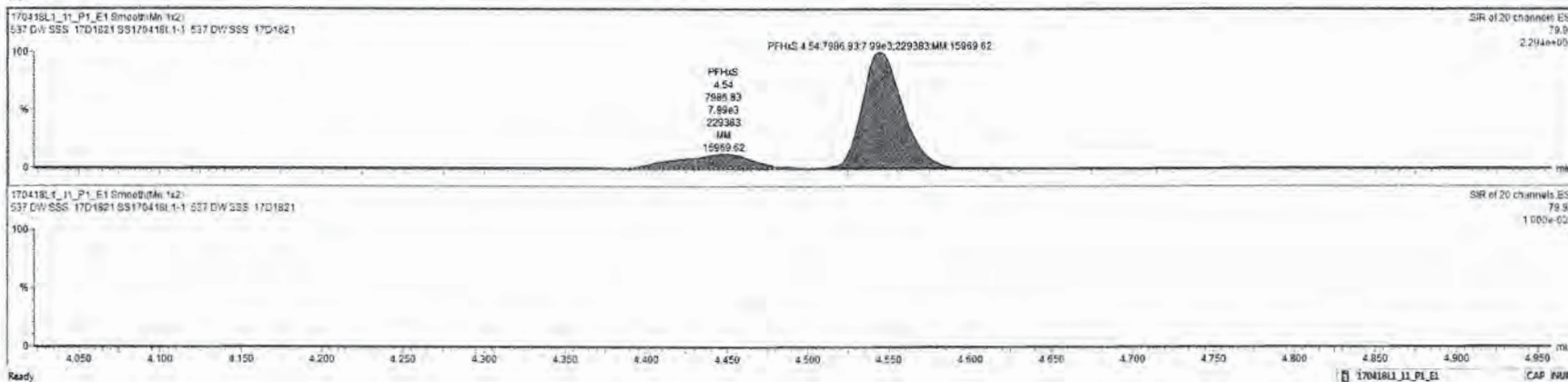
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ID: SS170418L1-1 537 DW SSS 17D1821, Description: 537 DW SSS 17D1821, Name: 170418L1_11.wiff, Date: 18-Apr-2017, Time: 18:50:21, Instrument: , Lab: ©PE-SCIEX,
User: sciex



#	Name	Comp	D	%Dec	EMPC	Abx Resp	KSP	RT	W	SR	RA	YNI	RRT	Acq Date	Acq Time	#* Chr Noise	ID	Sample Text	Factor1	SNV	Cal File	VALID
1	PFBS	9.5371670	0.000711	95.4		1.852e4		3.54	1	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
2	PFHSA	9.4901750	0.00369	94.9		1.554e4		3.91	2	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
3	PFHSA	12.448774	0.00416	124.5		2.130e4		4.44	3	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
4	PFHSA	9.6039524	0.00173	96.0		7.967e3		4.54	4	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
5	PFDA	11.605472	0.00595	116.1		2.273e4		4.83	5	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
6	PFNA	9.4169520	0.00205	94.2		1.754e4		5.15	6	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
7	PFOS	9.4609115	0.0375	94.7		7.621e3		5.20	7	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
8	PFDA	11.564594	0.00486	115.6		1.153e4		5.41	8	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
9	N-EFOSAA	8.1174407	0.000770	81.2		5.009e3		5.57	9	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
10	N-EFOSAA	11.962522	0.00539	119.6		6.872e3		5.63	10	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
11	PFHSA	10.819035	0.00309	108.3		1.134e4		5.63	11	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
12	PFDA	10.623869	0.00905	106.2		1.106e4		5.63	12	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
13	PFHSA	10.783662	0.00143	107.8		1.454e4		5.99	13	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
14	PFHSA	10.985815	0.00741	109.9		1.347e4		6.12	14	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
15	13C2-PFNA	9.4532731	0.000784	94.4		1.896e4	0.742	5.91	15	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
16	13C2-PFDA	9.5099559	0.0060	95.9		1.572e4	0.870	5.41	16	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
17	45-N-EFOSAA	38.232286	0.00384	38.8		2.111e4	0.846	5.62	17	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES
18	13C2-PFDA	16.000000	0.00140	160.0		2.415e4	1.000	4.82	18	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	NO
19	13C4-PFOS	28.700000	0.000795	287.0		2.822e4	1.000	5.20	19	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	NO
20	45-N-EFOSAA	40.000000	0.00519	40.0		2.809e4	1.000	5.51	20	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17	0.0	1.00	C18_5	YES



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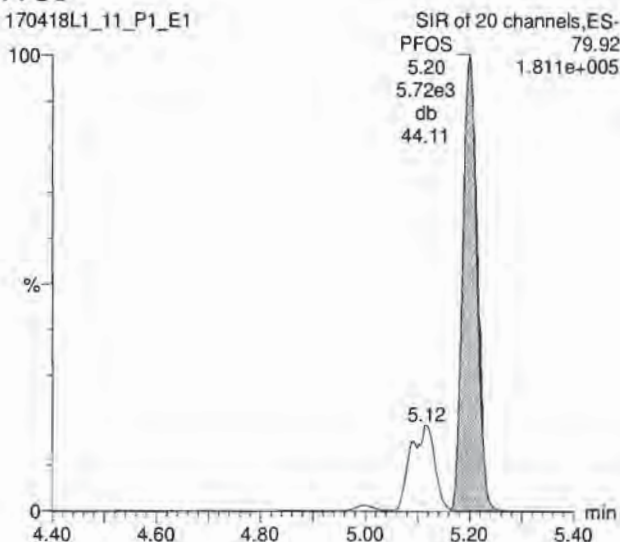
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Printed: Wednesday, April 19, 2017 10:06:27 Pacific Daylight Time

ID: SS170418L1-1 537 DW SSS 17D1821, Description: 537 DW SSS 17D1821, Name: 170418L1_11.wiff, Date: 18-Apr-2017, Time: 18:50:21, Instrument: , Lab: ©PE-SCIEX, User: sciex

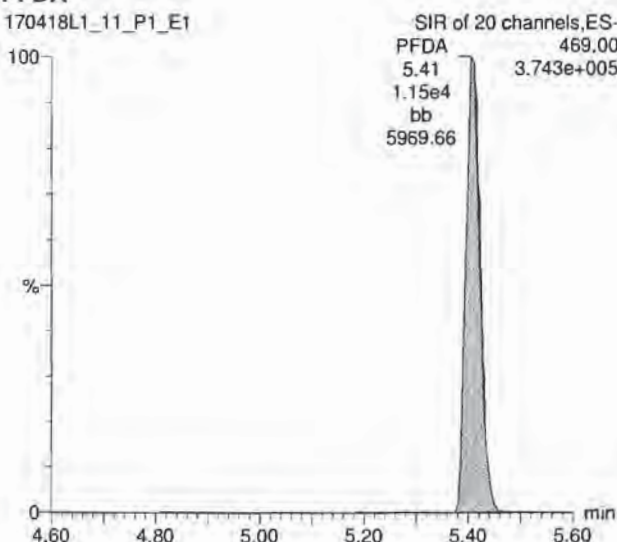
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170418L1_11_P1_E1



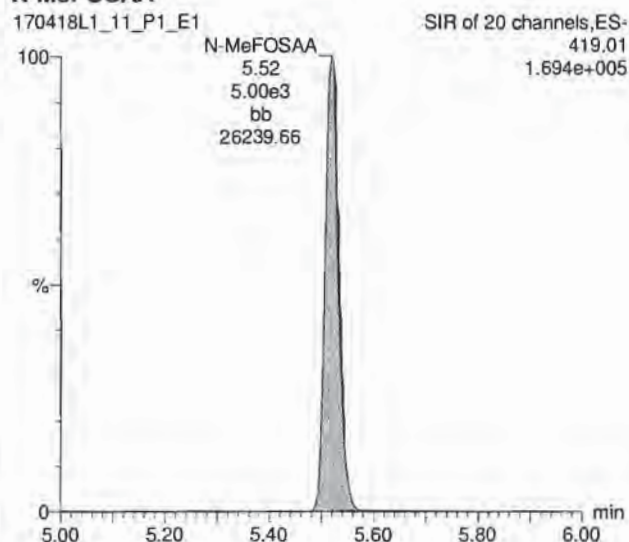
PFDA

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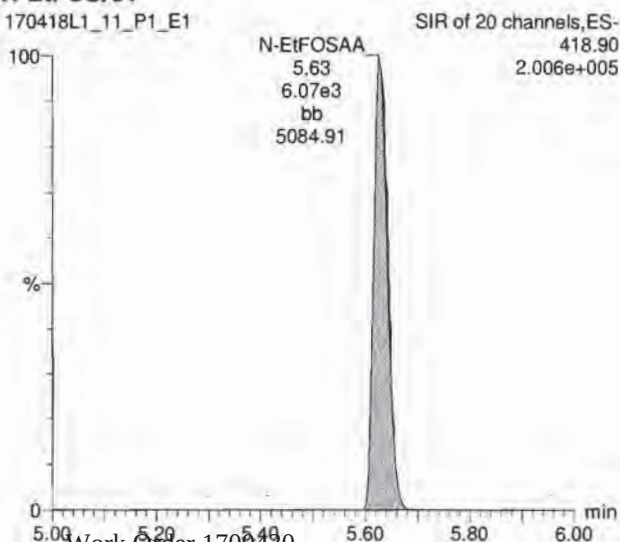
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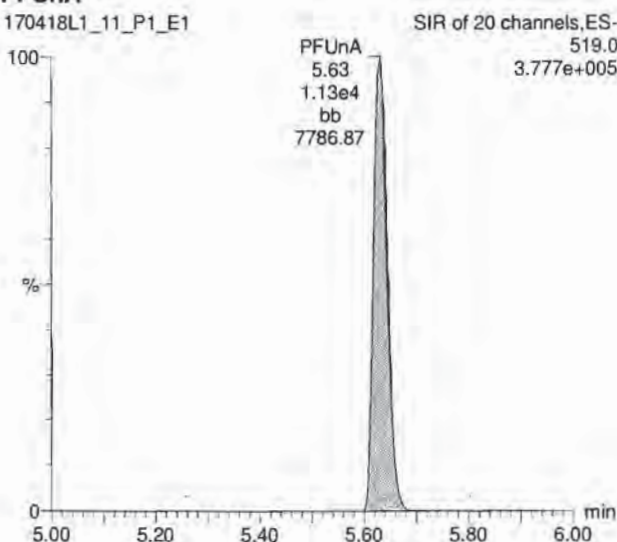
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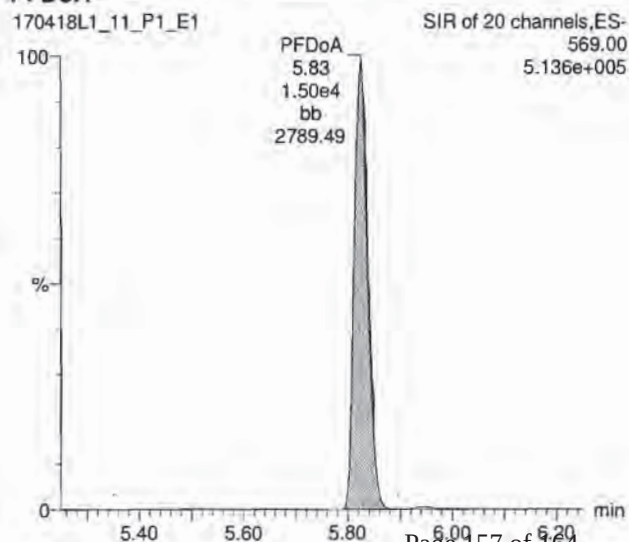
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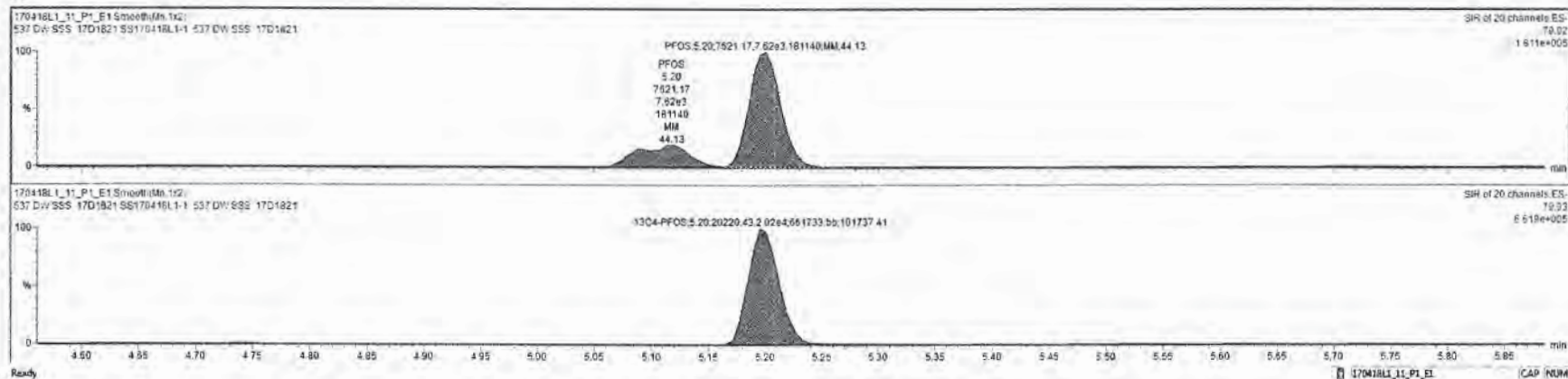
PFDoA

170418L1_11_P1_E1



170418L1_11_P1_E1_SS170418L1.1 537 DW SSS 1701821 - 537 DW SSS 1701821

S	Name	Comp	DL	NDec	EMPC	Ass Resp	RNF	RT	#	CA	RA	YIN	RRT	Acq Date	Acq Time	1 st Chk Node	ID	Sample Text	Factor1	Shrt	Cal File	MOD
1	PFOS	9.5371678	0.000711	92.4		1.032e4		5.54	1	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
2	PFHxA	9.4901750	0.00369	94.9		1.504e4		5.81	2	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
3	PFHxA	12.440774	0.00416	124.5		2.139e4		4.44	3	16			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
4	PFHxA	8.8623624	0.00113	88.8		7.967e3		4.54	4	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
5	PFDA	11.695472	0.00505	116.1		2.370e4		4.83	5	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
6	PFNA	9.4169920	0.00205	94.2		1.754e4		5.15	6	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
7	PFOS	9.4809915	0.0370	94.2		7.821e3		5.20	7	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
8	PFDA	11.594584	0.00468	115.8		1.133e4		5.41	8	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
9	4-MeFOSAA	8.1174487	0.00370	81.2		5.890e3		5.52	9	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
10	4-MeFOSAA	11.862522	0.00539	119.6		6.672e3		5.63	10	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
11	PFHxA	12.819235	0.00309	128.2		1.134e4		5.63	11	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
12	PFDA	10.823989	0.00505	108.2		1.496e4		5.83	12	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
13	PFHxA	10.703666	0.00143	107.8		1.454e4		5.98	13	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
14	PFHxA	10.905815	0.00741	109.9		1.367e4		6.12	14	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
15	13C2-PFNA	9.4532731	0.00564	94.5		1.805e4	8.742	5.61	15	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
16	13C2-PFDA	9.5899559	0.00600	95.9		1.572e4	8.478	5.41	16	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
17	4-MeFOSAA	36.232388	0.00884	95.8		2.111e4	8.846	5.82	17	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES
18	13C2-PFDA	10.800000	0.00140	108.0		2.410e4	1.300	4.62	18	18			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	NO
19	13C4-PFOS	20.700000	0.00305	109.0		2.022e4	1.000	5.20	19	19			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	NO
20	4-MeFOSAA	40.000000	0.00619	100.0		2.839e4	1.000	5.51	20	20			0.000	18-Apr-17	18:50:21		SS170418L1	537 DW SSS 17...	0.0	1.00	C18_5	YES



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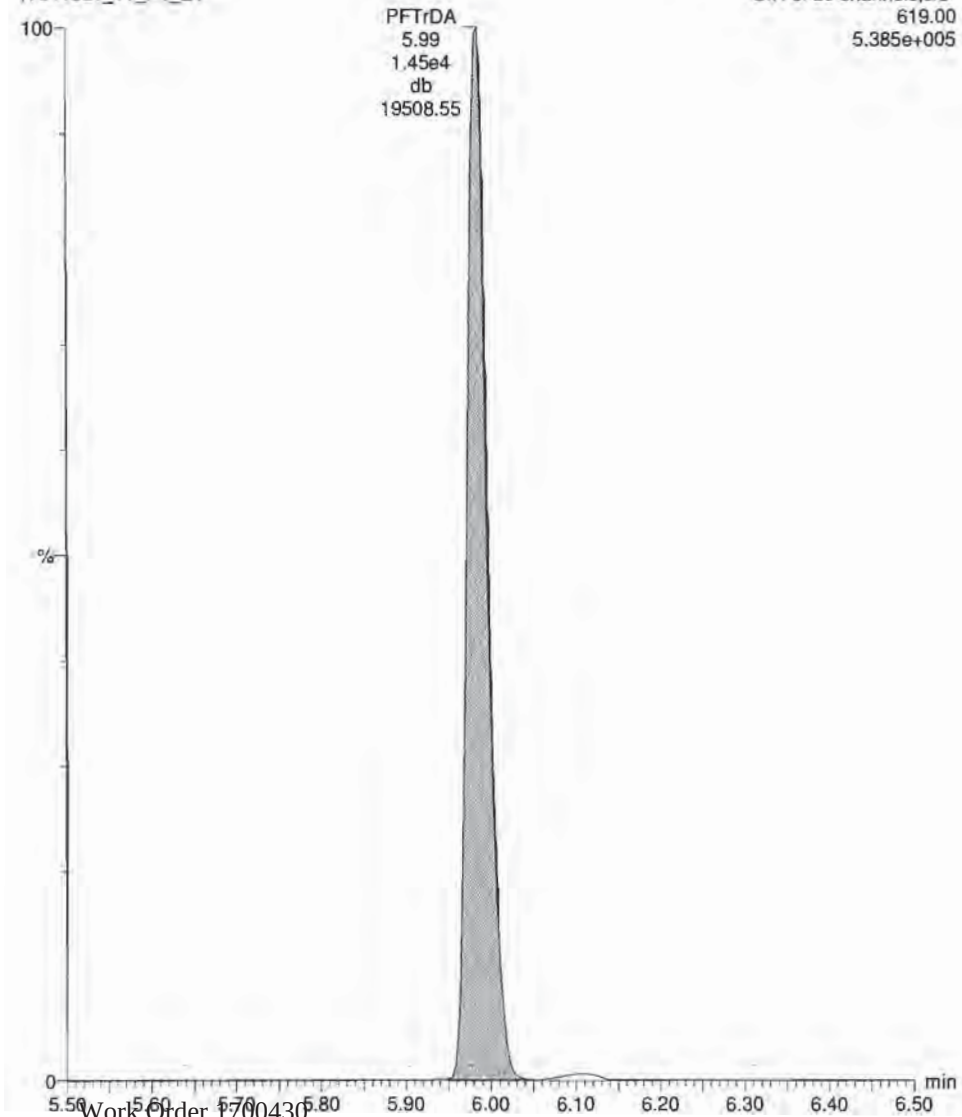
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Printed: Wednesday, April 19, 2017 10:06:27 Pacific Daylight Time

ID: SS170418L1-1 537 DW SSS 17D1821, Description: 537 DW SSS 17D1821, Name: 170418L1_11.wiff, Date: 18-Apr-2017, Time: 18:50:21, Instrument: , Lab: ©PE-SCIEX, User: sciex

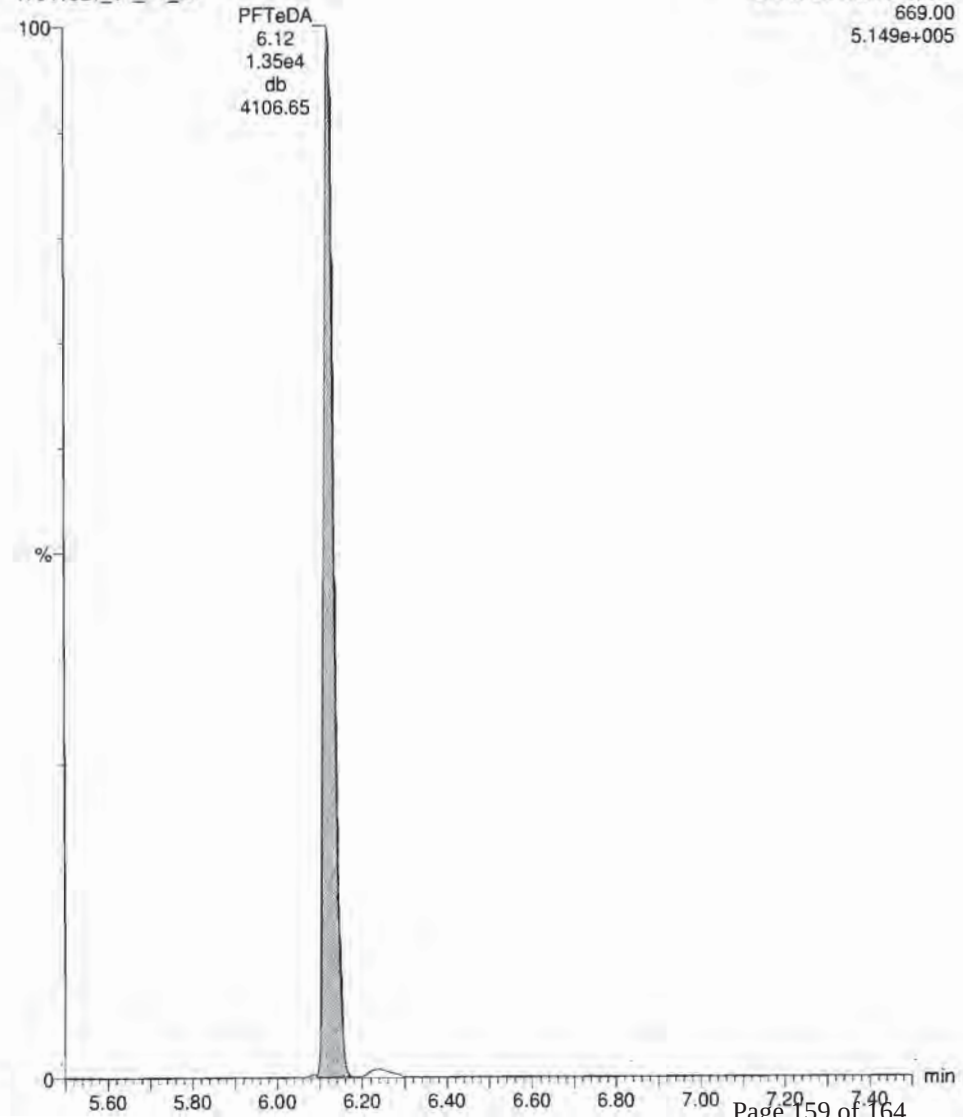
PFTrDA

170418L1_11_P1_E1



PFTeDA

170418L1_11_P1_E1



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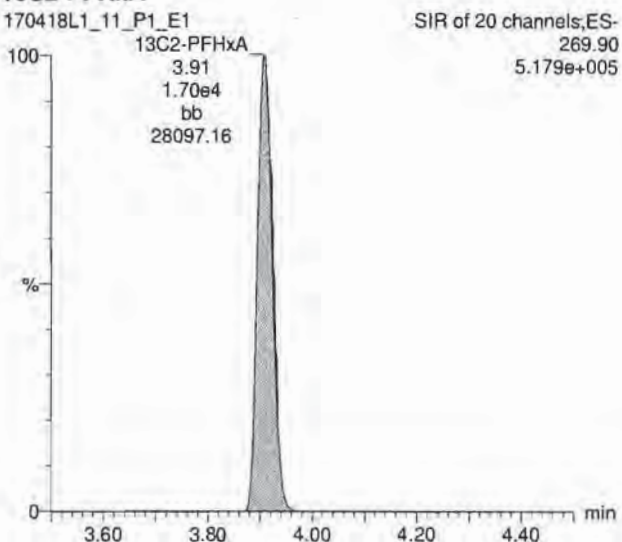
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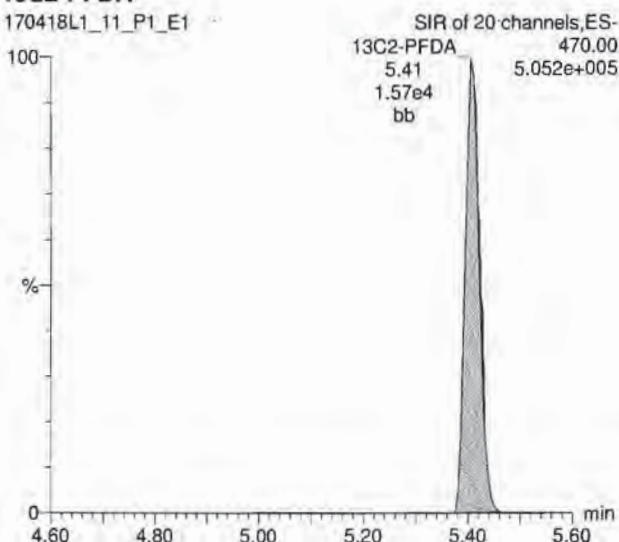
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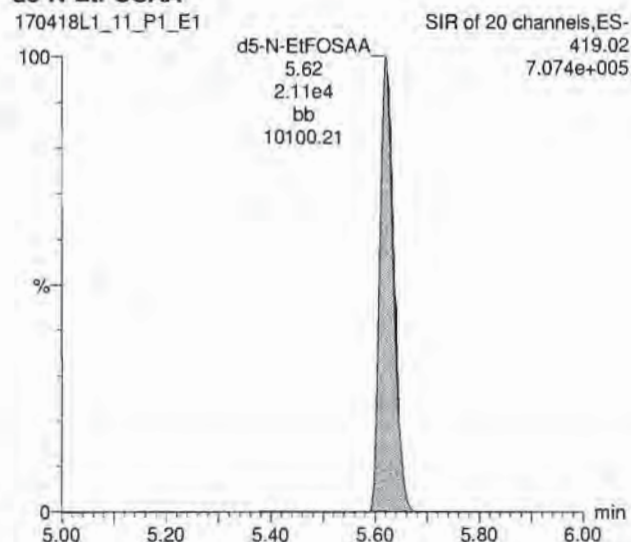
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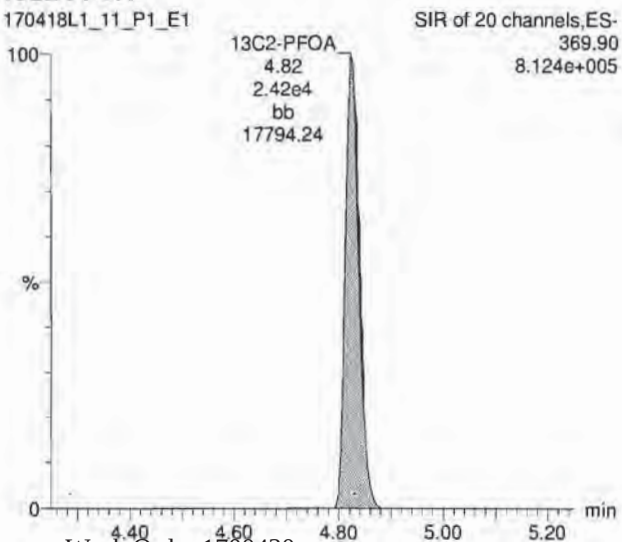
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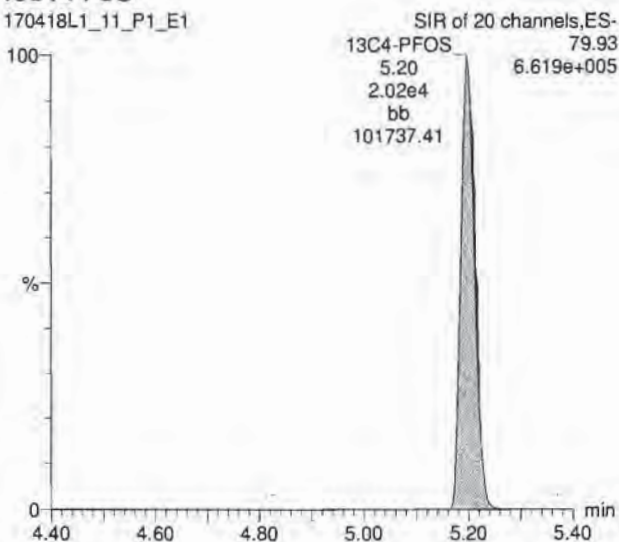
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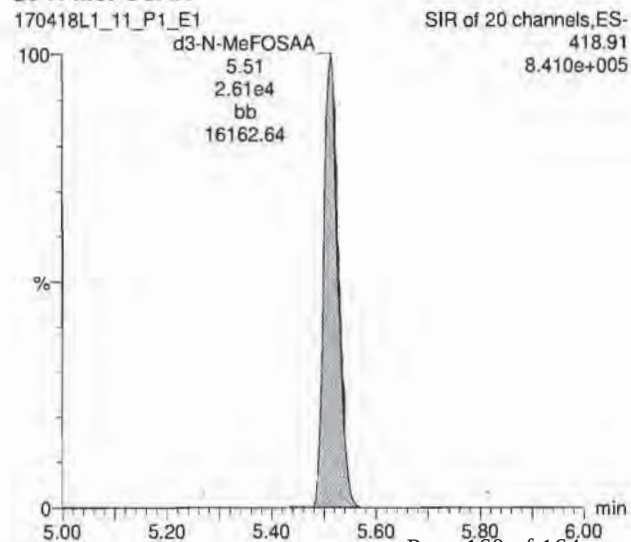
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d3-N-MeFOSAA

170418L1_11_P1_E1



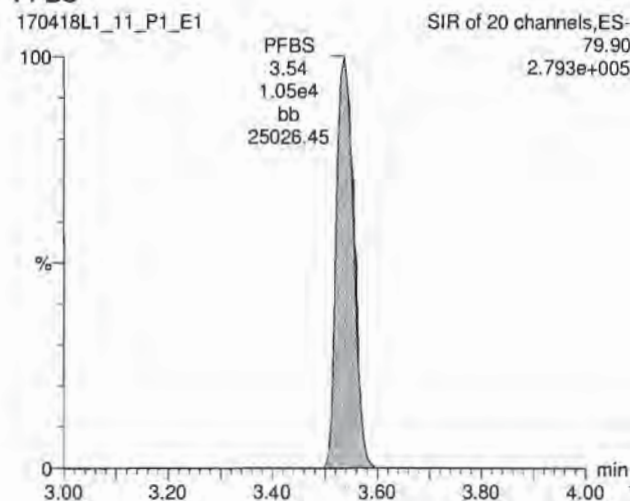
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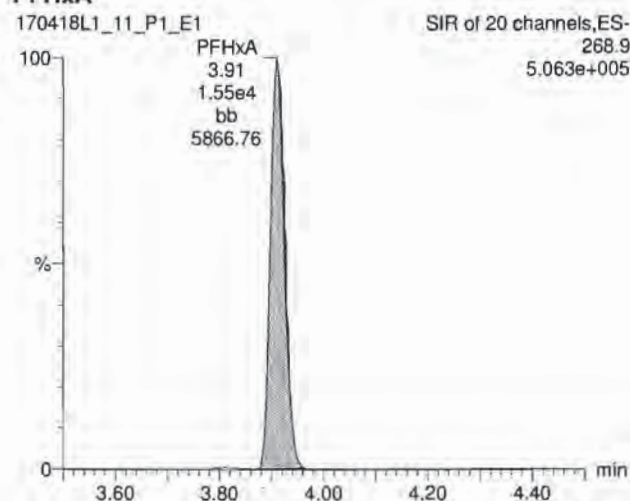
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ID: SS170418L1-1 537 DW SSS 17D1821, Description: 537 DW SSS 17D1821, Name: 170418L1_11.wiff, Date: 18-Apr-2017, Time: 18:50:21, Instrument: , Lab: ©PE-SCIEX,
User: sciex

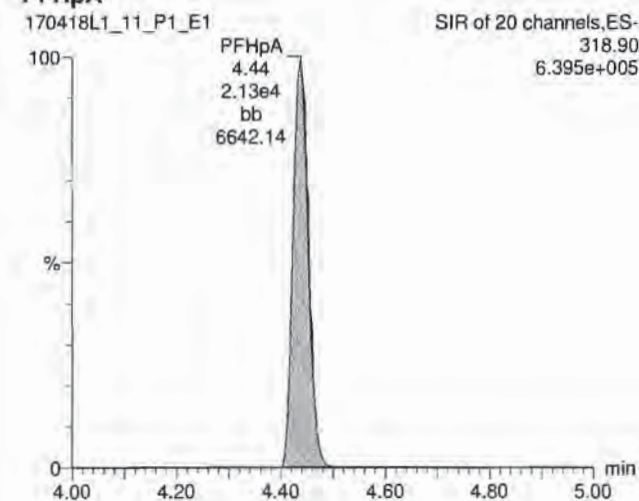
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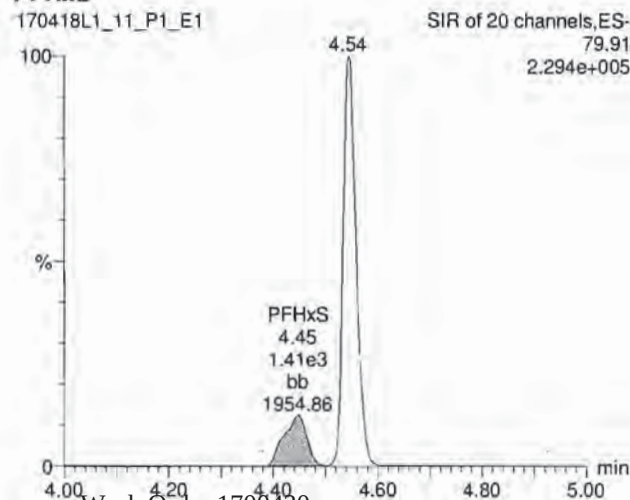
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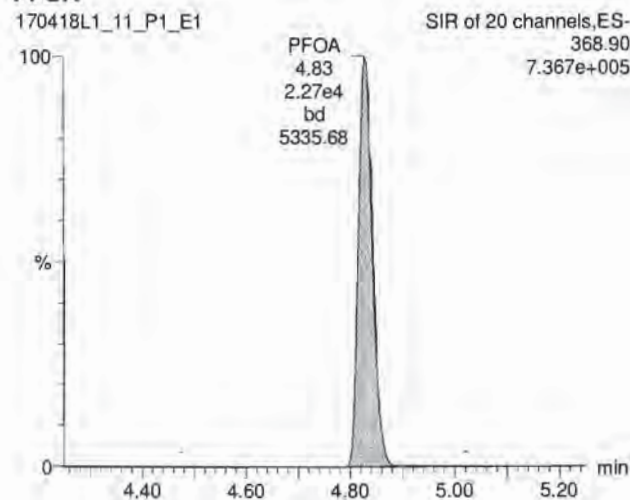
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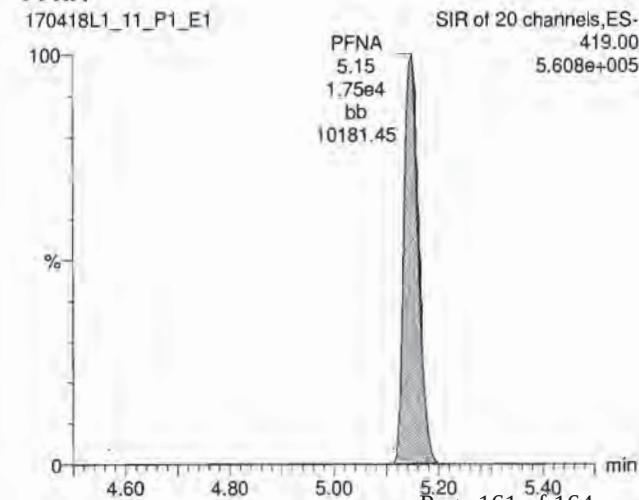
PFHxS



PFOA



PFNA



Dataset: Untitled

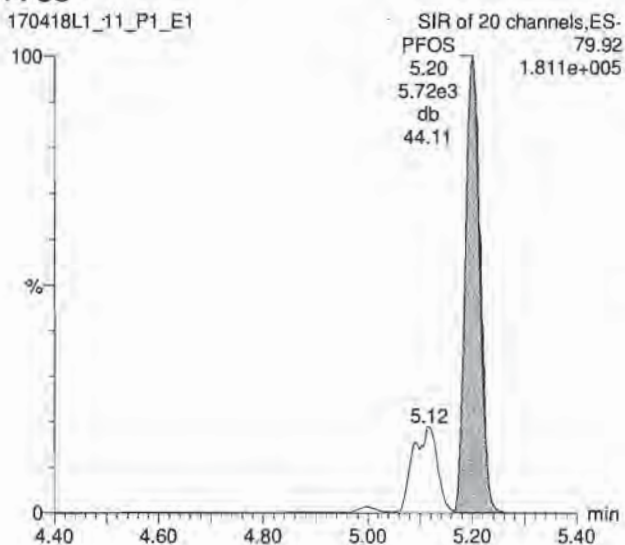
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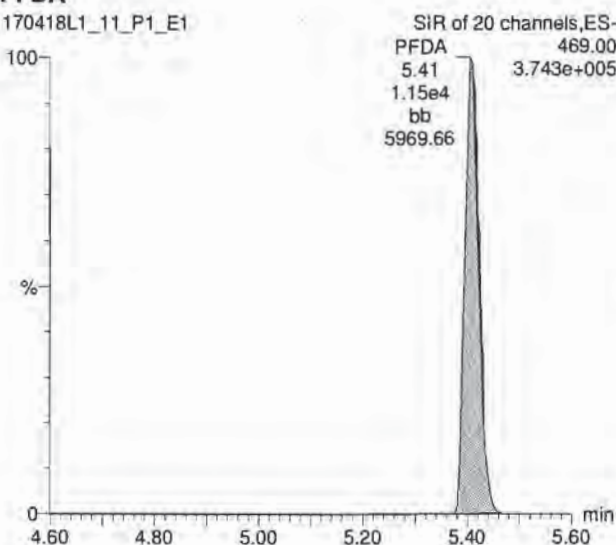
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170418L1_11_P1_E1



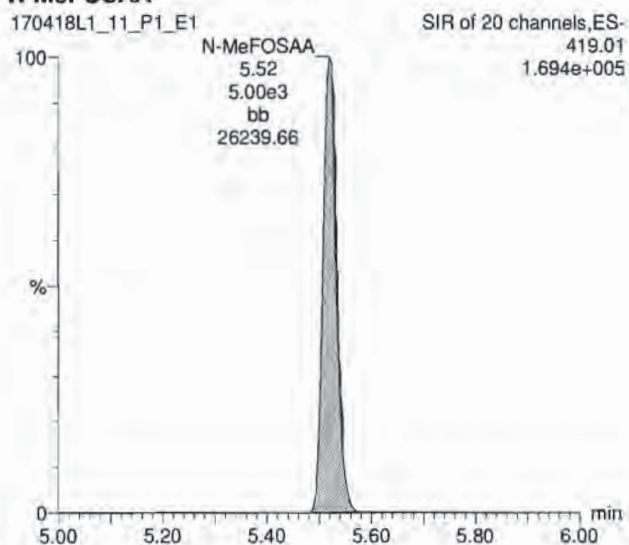
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170418L1_11_P1_E1



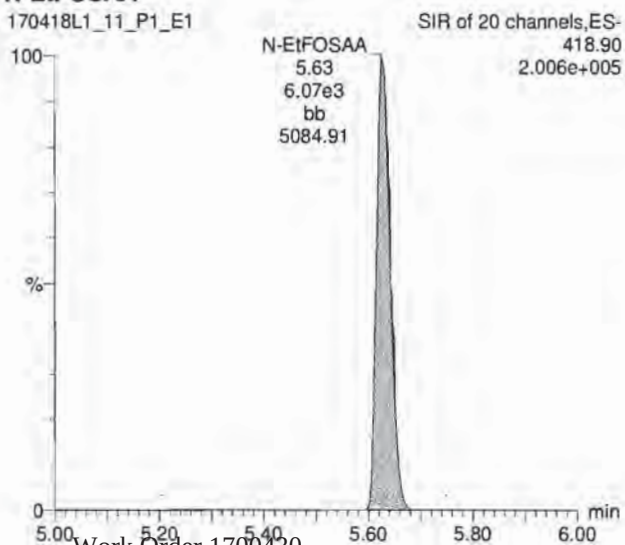
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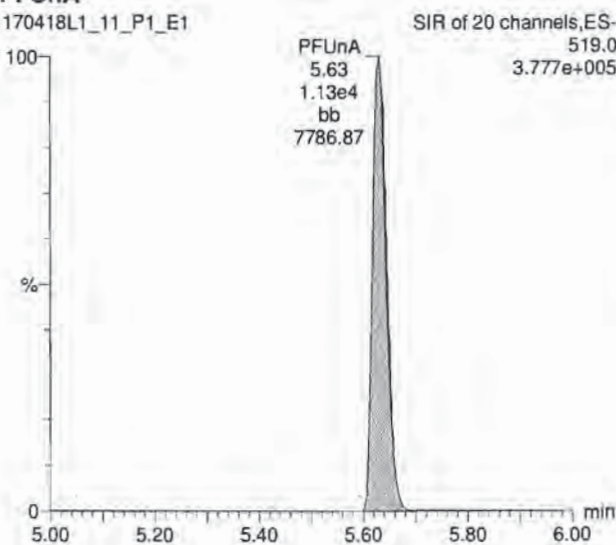
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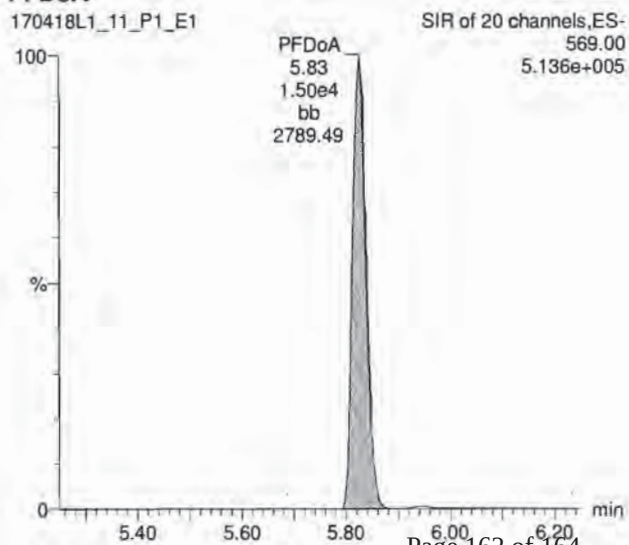
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170418L1_11_P1_E1



PFDoA

170418L1_11_P1_E1



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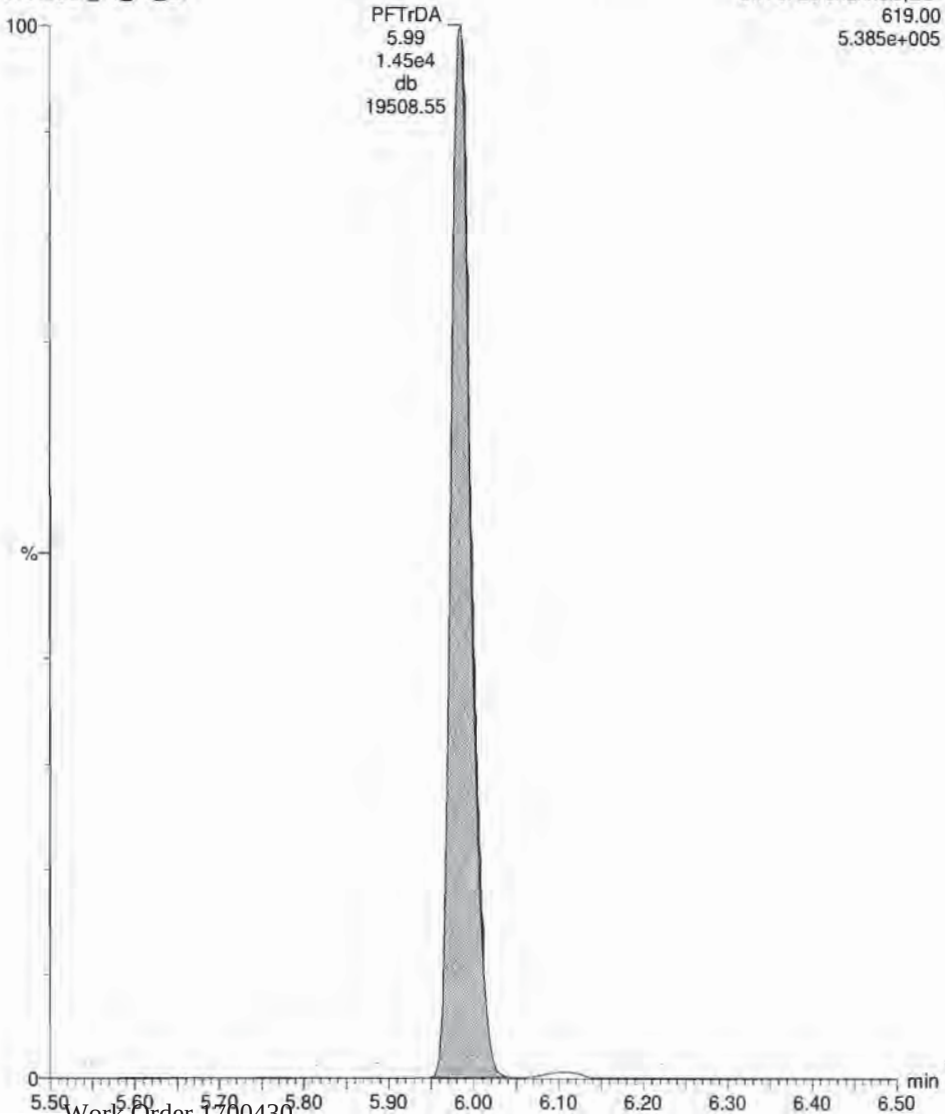
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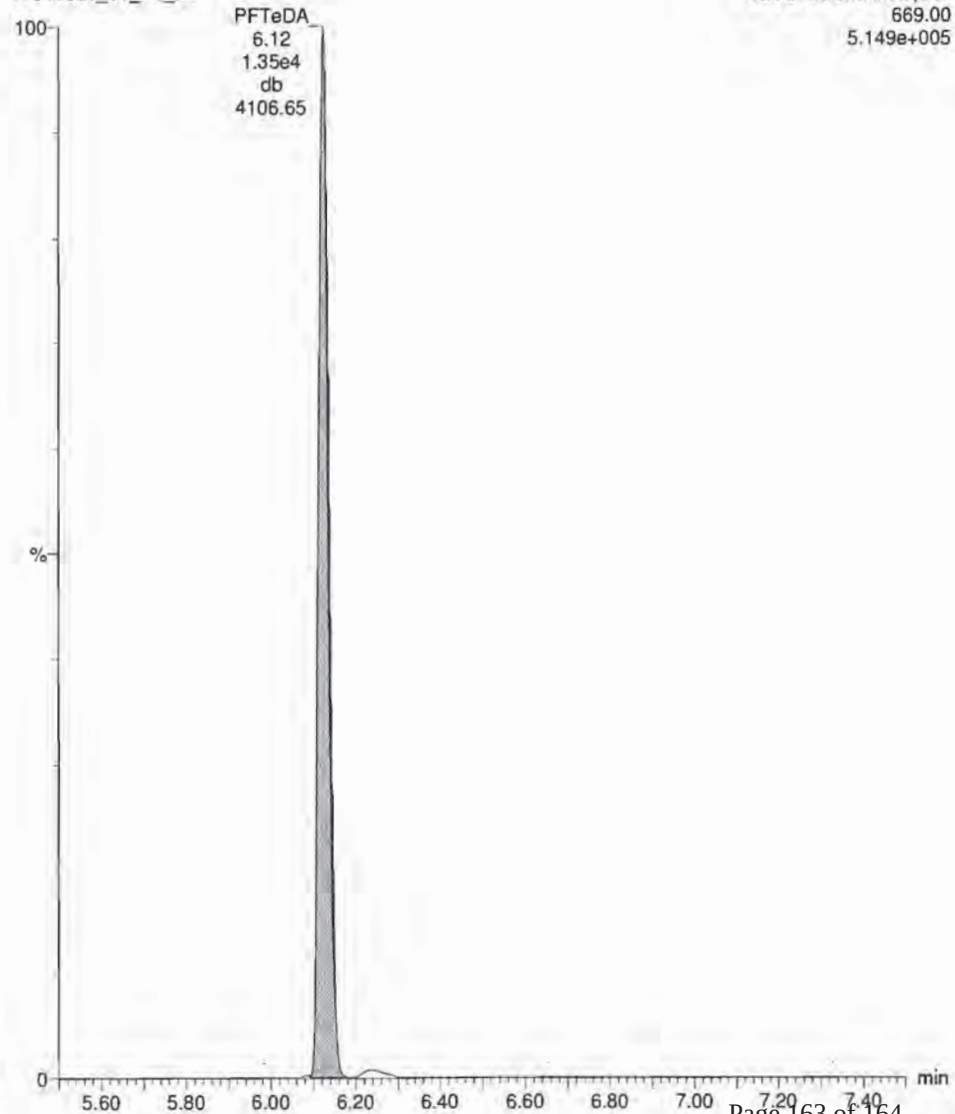
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Work Order 1700430

PFTeDA

170418L1_11_P1_E1



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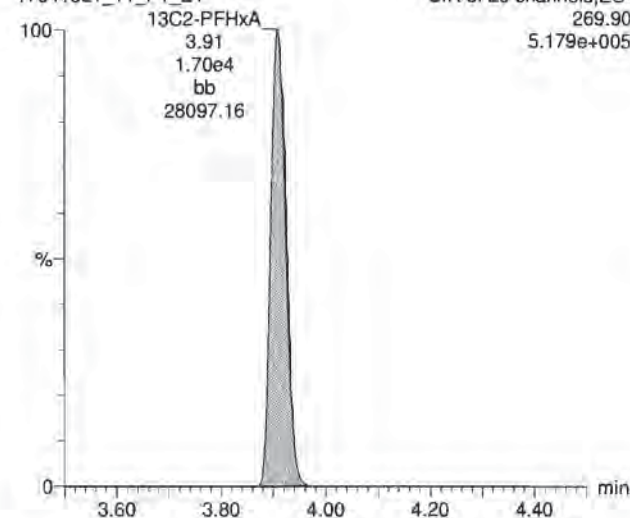
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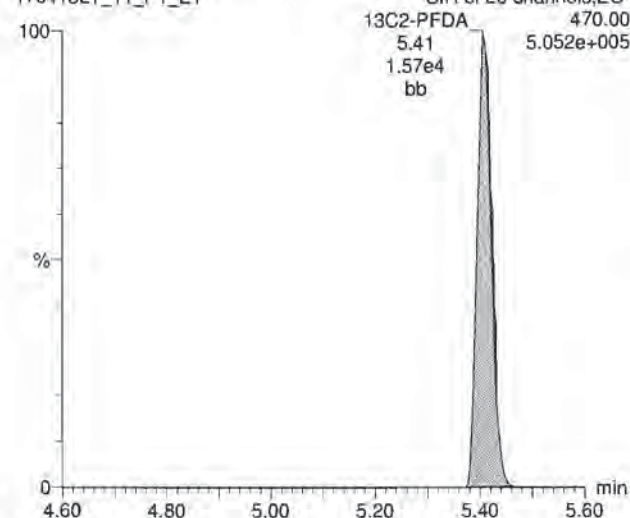
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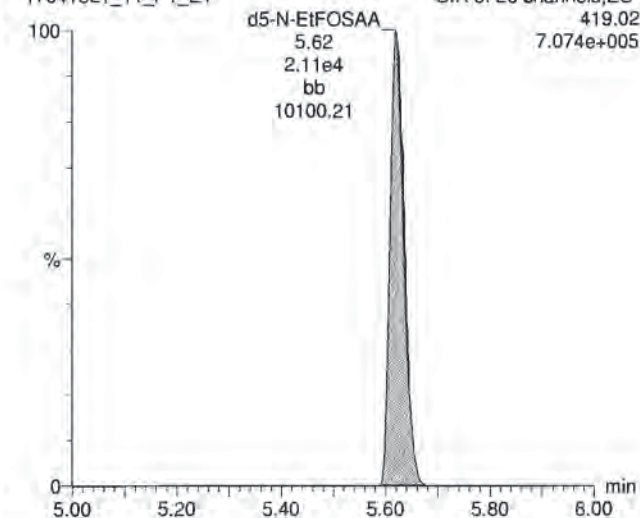
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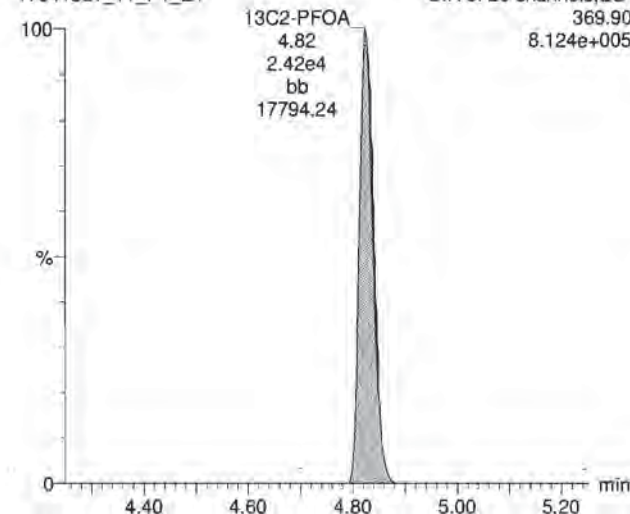
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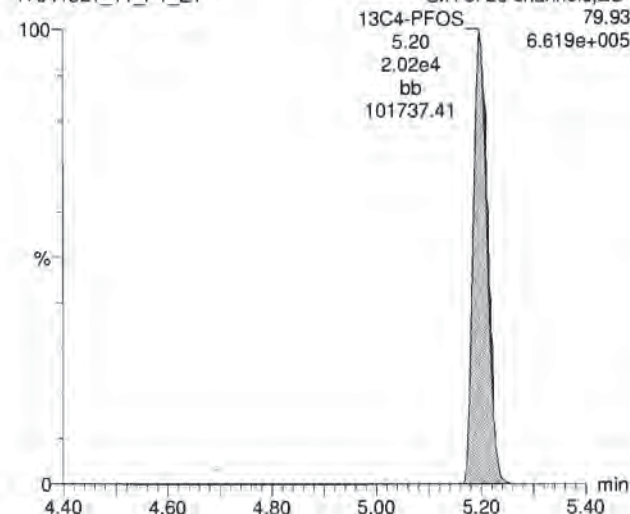
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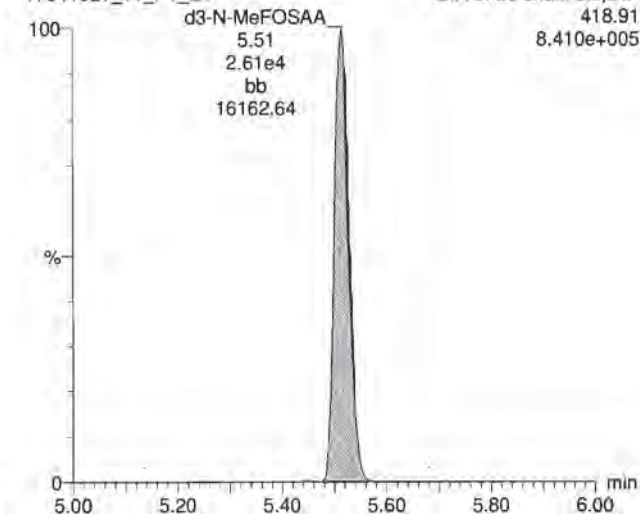
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170418L1_11_P1_E1



d3-N-MeFOSAA

170418L1_11_P1_E1



Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	CH2M_Code	Analysis_Group	Analytical_Method	PRC_Code	Lab_Code	Lab_Name	Leachate_Method	Sample_Basis	Extraction_Method	Result_Type	Lab_QC_Type	Sample_Medium	QC_Level	DateTime_Collected	Date_Received	Leachate_Date	Leachate_Time
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:07	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:07	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:07	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:07	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:07	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:08	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:08	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:08	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:08	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:08	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:58	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:58	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:58	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:59	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:59	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:59	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	04/07/2017 10:59	04/08/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	04/18/2017 10:56	04/18/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	04/18/2017 10:56	04/18/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	04/18/2017 10:56	04/18/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	04/18/2017 10:56	04/18/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	04/18/2017 10:56	04/18/2017		
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N6247016D9000	0008		WHITING_FIELD_NAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	04/18/2017 10:56	04/18/2017		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	04/18/2017 10:56	04/18/2017		

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	Percent_Lipid	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	GC_Column_Type
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	20170418	10:56:00	20170419	00:08:00	1700430-01	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		3.58	NG_L	J		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	20170418	10:56:00	20170419	00:08:00	1700430-01	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		9.40	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	20170418	10:56:00	20170419	00:08:00	1700430-01	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		9.40	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	20170418	10:56:00	20170419	00:08:00	1700430-01	1	-999			13C2-PFHxA	13C2-PFHxA		89.0	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	20170418	10:56:00	20170419	00:08:00	1700430-01	1	-999			13C2-PFDA	13C2-PFDA		108	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	20170418	10:56:00	20170419	00:21:00	1700430-02	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		8.88	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	20170418	10:56:00	20170419	00:21:00	1700430-02	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		8.88	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	20170418	10:56:00	20170419	00:21:00	1700430-02	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		8.88	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	20170418	10:56:00	20170419	00:21:00	1700430-02	1	-999			13C2-PFHxA	13C2-PFHxA		86.7	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	20170418	10:56:00	20170419	00:21:00	1700430-02	1	-999			13C2-PFDA	13C2-PFDA		93.9	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	20170418	10:56:00	20170419	00:33:00	1700430-03	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		8.93	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	20170418	10:56:00	20170419	00:33:00	1700430-03	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		8.93	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	20170418	10:56:00	20170419	00:33:00	1700430-03	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		8.93	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	20170418	10:56:00	20170419	00:33:00	1700430-03	1	-999			13C2-PFHxA	13C2-PFHxA		82.3	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	20170418	10:56:00	20170419	00:33:00	1700430-03	1	-999			13C2-PFDA	13C2-PFDA		83.9	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	20170418	10:56:00	20170419	00:45:00	1700430-04	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		8.81	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	20170418	10:56:00	20170419	00:45:00	1700430-04	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		8.81	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	20170418	10:56:00	20170419	00:45:00	1700430-04	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		8.81	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	20170418	10:56:00	20170419	00:45:00	1700430-04	1	-999			13C2-PFHxA	13C2-PFHxA		84.5	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	20170418	10:56:00	20170419	00:45:00	1700430-04	1	-999			13C2-PFDA	13C2-PFDA		96.5	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	20170418	10:56:00	20170418	22:43:00	B7D0087-BLK1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		10.0	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	20170418	10:56:00	20170418	22:43:00	B7D0087-BLK1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		10.0	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	20170418	10:56:00	20170418	22:43:00	B7D0087-BLK1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		10.0	NG_L	U		PR
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	20170418	10:56:00	20170418	22:43:00	B7D0087-BLK1	1	-999			13C2-PFHxA	13C2-PFHxA		89.4	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	20170418	10:56:00	20170418	22:43:00	B7D0087-BLK1	1	-999			13C2-PFDA	13C2-PFDA		91.9	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	20170418	10:56:00	20170418	22:18:00	B7D0087-BS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		16.0	NG_L	J		PR
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	20170418	10:56:00	20170418	22:18:00	B7D0087-BS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		20.3	NG_L			PR
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	20170418	10:56:00	20170418	22:18:00	B7D0087-BS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		16.2	NG_L	J		PR
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	20170418	10:56:00	20170418	22:18:00	B7D0087-BS1	1	-999			13C2-PFHxA	13C2-PFHxA		89.2	PCT_REC			PR
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	20170418	10:56:00	20170418	22:18:00	B7D0087-BS1	1	-999			13C2-PFDA	13C2-PFDA		89.9	PCT_REC			PR

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analysis_Result_Type	Result_Narrative	QC_Control_Limit_Code	QC_Accuracy_Upper	QC_Accuracy_Lower	Control_Limit_Date	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch	Validator_Name	Val_Date
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	TRG									5.0	3.28	9.40	18.8	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	TRG									5.0	4.27	9.40	18.8	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417	TRG									5.0	2.87	9.40	18.8	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417			SLSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW08-0417			SLSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	TRG									5.0	3.10	8.88	17.8	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	TRG									5.0	4.03	8.88	17.8	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417	TRG									5.0	2.71	8.88	17.8	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417			SLSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB08-0417			SLSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	TRG									5.0	3.12	8.93	17.9	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-RW09-0417	TRG									5.0	4.05	8.93	17.9	1700430	S7D0027		
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N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	TRG									5.0	3.08	8.81	17.6	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	TRG									5.0	4.00	8.81	17.6	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	WF-FB09-0417	TRG									5.0	2.69	8.81	17.6	1700430	S7D0027		
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N6247016D9000	0008		WHITING_FIELD_NAS	Blank	SUR		SLSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	Blank	SUR		SLSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	TRG		LSA	130	70					5.0	3.49	10.0	20.0	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	TRG		LSA	130	70					5.0	4.54	10.0	20.0	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	TRG		LSA	130	70					5.0	3.05	10.0	20.0	1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	SUR		LSA	130	70					5.0				1700430	S7D0027		
N6247016D9000	0008		WHITING_FIELD_NAS	LCS	SUR		LSA	130	70					5.0				1700430	S7D0027		

**DATA VALIDATION SUMMARY REPORT
NAS WHITING FIELD, FLORIDA**

Client: CH2M HILL, Inc., Corvallis, Oregon
SDG: 1700430
Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
Site: NAS Whiting Field, Florida, CTO-0008
Date: May 2, 2017

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	WF-RW08-0417	1700430-01	Water
2	WF-FB08-0417	1700430-02	Water
3	WF-RW09-0417	1700430-03	Water
4	WF-FB09-0417	1700430-04	Water

A full data validation was performed on the analytical data for two water samples and two aqueous field blank samples collected on April 7, 2017 by CH2M HILL at the NAS Whiting Field site in Florida. The samples were analyzed under the EPA Method "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".

Specific method references are as follows:

Analysis
PFCs

Method References
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Superfund Organic Methods Data Review," August 2014;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Initial and continuing calibration summaries

- Method blank and field QC blank contamination
- Surrogate recovery (%R)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Ongoing Precision and Recovery (OPR)
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

Initial Calibration

- All percent difference (%D) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- The field blank samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WF-FB08-0417	None - ND	-	-	-
WF-FB09-0417	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable %R and RPD values.

Ongoing Precision and Recovery (OPR)

- The OPR samples exhibited acceptable percent recoveries (%R) values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

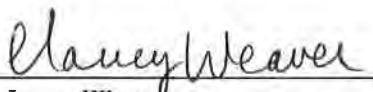
- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:


Nancy Weaver
Senior Chemist

Dated:

5/3/17

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: WF-RW08-0417**EPA Method 537****Client Data**

Name: CH2M Hill
Project: 679580
Date Collected: 07-Apr-2017 10:07
Location: WF-RW08

Sample Data

Matrix: Drinking Water
Sample Size: 0.266 L

Laboratory Data

Lab Sample: 1700430-01 Date Received: 08-Apr-2017 9:27
QC Batch: B7D0087 Date Extracted: 18-Apr-2017 10:56
Date Analyzed: 19-Apr-17 00:08 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3.58	3.28	9.40	18.8	J	SUR 13C2-PFHxA	89.0	70 - 130	
PFOA	ND	4.27	9.40	18.8		SUR 13C2-PFDA	108	70 - 130	
PFOS	ND	2.87	9.40	18.8					

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

NW 5/2/17

2

Sample ID: WF-FB08-0417						EPA Method 537				
Client Data			Sample Data			Laboratory Data				
Name:	CH2M Hill		Matrix:	Aqueous		Lab Sample:	1700430-02	Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.281 L		QC Batch:	B7D0087	Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:08					Date Analyzed:	19-Apr-17 00:21	Column:	BEH C18	
Location:	n/a									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	ND	3.10	8.88	17.8		SUR	13C2-PFHxA	86.7	70 - 130	
PFOA	ND	4.03	8.88	17.8		SUR	13C2-PFDA	93.9	70 - 130	
PFOS	ND	2.71	8.88	17.8						

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.

new 5/2/17

3

Sample ID: WF-RW09-0417						EPA Method 537					
Client Data			Sample Data			Laboratory Data					
Name:	CH2M Hill		Matrix:	Drinking Water		Lab Sample:	1700430-03		Date Received:	08-Apr-2017 9:27	
Project:	679580		Sample Size:	0.280 L		QC Batch:	B7D0087		Date Extracted:	18-Apr-2017 10:56	
Date Collected:	07-Apr-2017 10:58					Date Analyzed:	19-Apr-17 00:33 Column: BEH C18				
Location:	WF-RW09										
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	ND	3.12	8.93	17.9		SUR	13C2-PFHxA	82.3	70 - 130		
PFOA	ND	4.05	8.93	17.9		SUR	13C2-PFDA	83.9	70 - 130		
PFOS	ND	2.72	8.93	17.9							

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.

rw 5/2/17

4

Sample ID: WF-FB09-0417						EPA Method 537				
Client Data Name: CH2M Hill Project: 679580 Date Collected: 07-Apr-2017 10:59 Location: n/a			Sample Data Matrix: Aqueous Sample Size: 0.284 L			Laboratory Data Lab Sample: 1700430-04 Date Received: 08-Apr-2017 9:27 QC Batch: B7D0087 Date Extracted: 18-Apr-2017 10:56 Date Analyzed: 19-Apr-17 00:45 Column: BEH C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	ND	3.08	8.81	17.6		SUR 13C2-PFHxA		84.5	70 - 130	
PFOA	ND	4.00	8.81	17.6		SUR 13C2-PFDA		96.5	70 - 130	
PFOS	ND	2.69	8.81	17.6						

DL - Detection limit

RL - Reporting limit

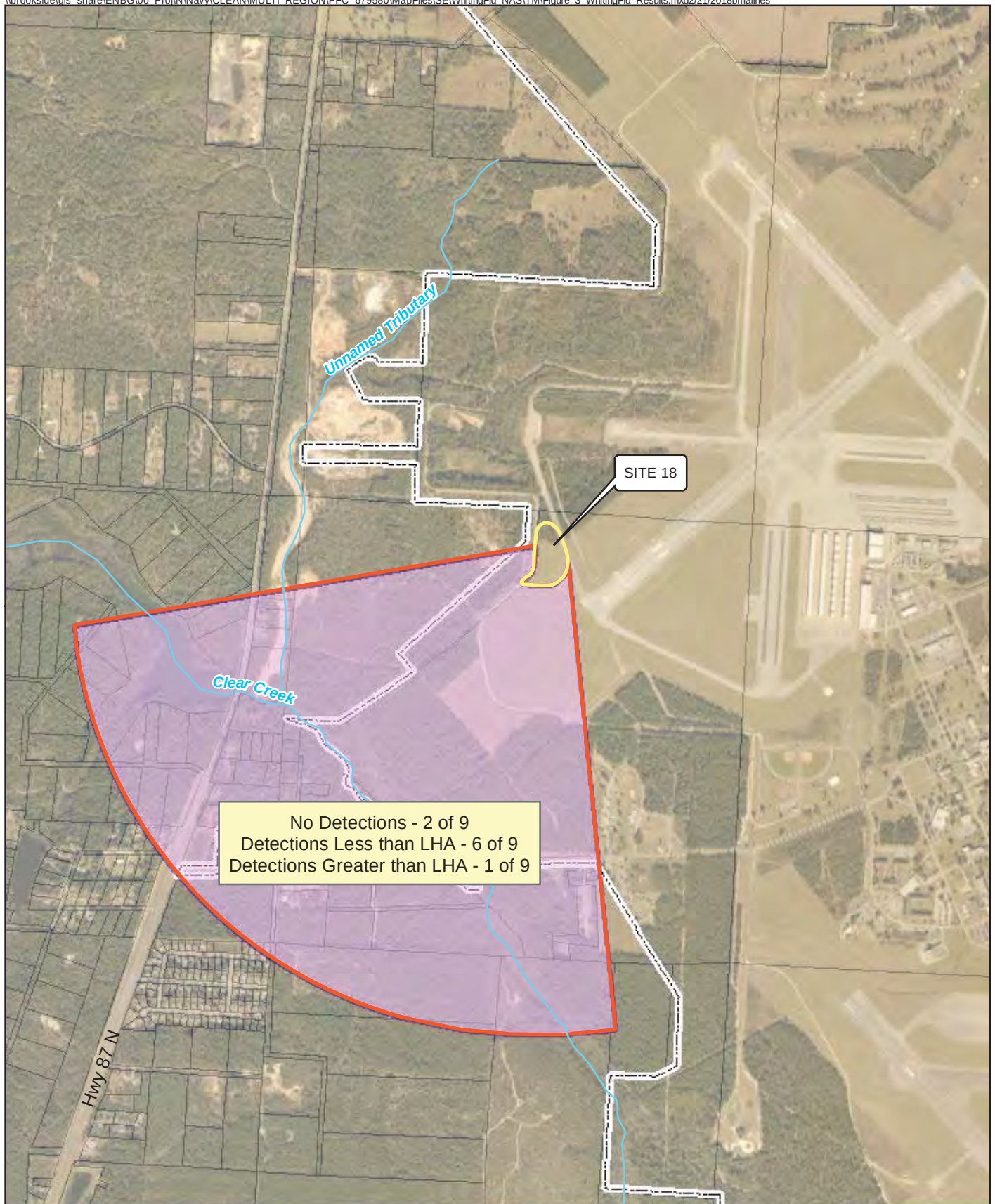
LCL-UCL - Lower control limit - upper control limit

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

rev 5/2/17



Legend

- Creek
- Site Boundary (suspected source)
- Sampling Area
- Site 18 - 1-mile zone
- Parcel
- - - Base Boundary

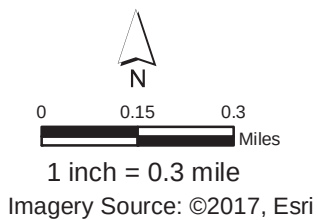


Figure 3
Drinking Water Results
Site 18
Naval Air Station Whiting Field
Milton, Florida