Off-base Drinking Water Sample Results, Level 2 Laboratory Report, Level 4 Laboratory Report, Electronic Data Deliverable, Data Validation Report, and the Sample Location Figure, SDG 1802614

Marine Corps Outlying Landing Field Atlantic
MCAS Cherry Point NC

February 2019

August 29, 2018

Vista Work Order No. 1802614

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

Dear Ms. Hill,

Enclosed are the amended results for the sample set received at Vista Analytical Laboratory on August 22, 2018 under your Project Name 'CTO-08, MCOLF Atlantic PFAS DW Investigation'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director

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

Vista Work Order No. 1802614
Case Narrative

Sample Condition on Receipt:

Six drinking water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. This report was amended on August 29, 2018 to correct the Sample Inventory.

Analytical Notes:

EPA Method 537, Rev. 1.1

The samples were extracted and analyzed for a selected list of PFAS using EPA Method 537, Rev. 1.1.

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

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

A Laboratory Fortified Sample Matrix (LFSM) and Laboratory Fortified Sample Matrix Duplicate (LFSMD) were performed on sample "CH-AT-1RW199-0818". The analyte recoveries and RPDs were within the method acceptance criteria.

Table of Contents

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1802614-01	CH-AT-1RW199-0818	MS/MSD20-Aug-18 16:13	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
1802614-02	CH-AT-1FB199-0818	20-Aug-18 16:14	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-03	CH-AT-1RW200-0818	20-Aug-18 16:35	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-04	CH-AT-1FB200-0818	20-Aug-18 16:36	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-05	CH-AT-1RW201-0818	20-Aug-18 16:53	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-06	CH-AT-1FB201-0818	20-Aug-18 16:54	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL

Vista Project: 1802614

Client Project: CTO-08, MCOLF Atlantic PFAS DW Investigation

ANALYTICAL RESULTS

Sample ID: LRB

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Aqueous

Laboratory Data

Lab Sample: B8H0182-BLK1
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1
PFOA	335-67-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1
PFOS	1763-23-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	111	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1
13C2-PFDA	SURR	97.3	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: LFB

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigatior
Matrix: Aqueous

Laboratory Data

Lab Sample: B8H0182-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	17.7	17.7	100	50 - 150		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1
PFOA	335-67-1	18.3	20.0	91.4	50 - 150		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1
PFOS	1763-23-1	17.1	18.5	92.6	50 - 150		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	114	70- 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1
13C2-PFDA	SURR	99.3	70- 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1

Sample ID: CH-AT-1RW199-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:13

Laboratory Data

Lab Sample: 1802614-01
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
PFOA	335-67-1	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
PFOS	1763-23-1	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	108	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
13C2-PFDA	SURR	92.8	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1RW199-0818 **EPA Method 537**

Name:	CH2M Hill	Lab Sample:	B8H0182-MS1/B8H0182-MSD1	Source Lab Sample:	1802614-01
Project:	CTO-08, MCOLF Atlantic PFAS DW Investigatio	QC Batch:	B8H0182	Date Extracted:	23-Aug-18
Matrix:	Aqueous	Samp Size:	0.249/0.251 L	Column:	BEH C18

Analyte	CAS Number	Sample (ng/L)	LFSM (ng/L)	LFSM Spike Amt	LFSM % Rec	LFSM Quals	LFSMD (ng/L)	LFSMD Spike Amt	LFSMD % Rec	RPD	LFSMD Quals	%Rec Limits	RPD Limits	LFSM Analyzed	LFSM Dil	LFSMD Analyzed	LFSMD
PFBS	375-73-5	ND	16.9	17.8	95.0		16.5	17.6	93.7	1.38		50-150	30	27-Aug-18 10:43	1	27-Aug-18 10:56	1
PFOA	335-67-1	ND	20.0	20.1	98.4		19.2	19.9	95.6	2.89		50-150	30	27-Aug-18 10:43	1	27-Aug-18 10:56	1
PFOS	1763-23-1	ND	18.8	18.6	101		17.3	18.4	94.1	7.07		50-150	30	27-Aug-18 10:43	1	27-Aug-18 10:56	1

Labeled Standards	Type	LFSM % Rec	LFSM Quals	LFSMD % Rec	LFSMD Quals	Limits	LFSM Analyzed	LFSM Dil	LFSMD Analyzed	LFSMD
13C2-PFHxA	SURR	113		109		70-130	27-Aug-18 10:43	1	27-Aug-18 10:56	1
13C2-PFDA	SURR	99.8		100		70-130	27-Aug-18 10:43	1	27-Aug-18 10:56	1

Sample ID: CH-AT-1FB199-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:14

Laboratory Data

Lab Sample: 1802614-02
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
PFOA	335-67-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
PFOS	1763-23-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	120	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
13C2-PFDA	SURR	97.4	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1RW200-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:35

Laboratory Data

Lab Sample: 1802614-03
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
PFOA	335-67-1	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
PFOS	1763-23-1	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	109	70 - 130		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
13C2-PFDA	SURR	92.9	70 - 130		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1FB200-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:36

Laboratory Data

Lab Sample: 1802614-04
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
PFOA	335-67-1	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
PFOS	1763-23-1	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	113	70 - 130		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
13C2-PFDA	SURR	105	70 - 130		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1RW201-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:53

Laboratory Data

Lab Sample: 1802614-05
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
PFOA	335-67-1	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
PFOS	1763-23-1	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	116	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
13C2-PFDA	SURR	99.2	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1FB201-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:54

Laboratory Data

Lab Sample: 1802614-06
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
PFOA	335-67-1	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
PFOS	1763-23-1	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	113	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
13C2-PFDA	SURR	96.5	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank**
Conc.	**Concentration**
D	**Dilution**
DL	**Detection limit**
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**
LOD	**Limits of Detection**
LOQ	**Limits of Quantitation**
M	**Estimated Maximum Possible Concentration (CA Region 2 projects only)**
NA	**Not applicable**
ND	**Not Detected**
Q	**Ion ratio outside of 70-130% of Standard Ratio. (DOD PFAS projects only)**
TEQ	**Toxic Equivalency**
U	**Not Detected (specific projects only)**
*****	**See Cover Letter**

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1802614 Temp: 0.0 °C
Storage ID: WR-2 Storage Secured: Yes ☑ No ☐

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

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

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

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Mike Witmer	8/21/18	1715	Marissa Sparks	08/22/18	1021
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: FEDEX

Tracking No:

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Mod EPA Method 537: PFOA/PFOS	UCMR3 PFAS List 6	537 List: 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only): PFOA/PFOS/PFBS	UCMR3 PFAS List 6	PFAS List: 14	Comments
CH-AT-1RW199-0818	8/20/18	16:13		2	P	DW						X			TZ preservative
CH-AT-1RW199-0818-MS	8/20/18	16:13		2	P	DW						X			TZ preservative
CH-AT-1RW199-0818-SD	8/20/18	16:13		2	P	DW						X			TZ preservative
CH-AT-1FB199-0818	8/20/18	16:14		2	P	DW						X			TZ preservative
CH-AT-1RW200-0818	8/20/18	16:35		2	P	DW						X			TZ preservative
CH-AT-1FB200-0818	8/20/18	16:36		2	P	DW						X			TZ preservative
CH-AT-1RW201-0818	8/20/18	16:53		2	P	DW						X			TZ preservative
CH-AT-1FB201-0818	8/20/18	16:54		2	P	DW						X			TZ preservative

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

SEND DOCUMENTATION AND RESULTS TO:

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

Container Types: P= HDPE, PJ= HDPE Jar, O = Other

Bottle Preservation Type: T = Thiosulfate, TZ = Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

Page: 1 of 1

Vista Analytical Laboratory

Sample Log in Checklist

1 of 1

WO#: 1802614
SDG#: D3
TAT: 7

Section 1: Container Receipt

Delivered By: ☑ FedEx ☐ UPS ☐ On Trac ☐ GSO ☐ DHL ☐ Hand Delivered ☐ Other

Number of Containers	Arrival Date	Arrival time	Received By/Date	LR-SCL Initiated By
1	08/22/18	1009	WWS 08/22/18	WWS 08/22/18

Section 2: Sample Receipt Condition and Initial Storage

Container Condition	Chain of Custody	Preservation Type	Temperature	Storage Location	Initials/ Date
☑ Shipping container intact ☑ Custody Seals present ☑ Custody seals intact	☑ COC present ☑ Relinquished by section complete	☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ Other	Thermometer ID: **IR-4** ☐ Probe used Temp (uncorrected): 0.1 °C Temp (corrected): 0.0 °C ☐ Anomaly form required	☑ WR2 ☐ WF2 ☐ NA	WWS 08/22/18

Airbill/Trk # 7750 2331 9881

Shipping container ☑ Vista ☐ Client ☑ Retain ☐ Return ☐ Dispose — By Initials/Date: WWS 08/22/18

Section 3: Sample Log In

	YES Initials/Date	NO Initials/Date
COC identifies sample ID, date and time of collection, collector's name	WWS 08/22/18	☐ Anomaly form required
COC identifies sample matrix and test method	WWS 08/22/18	☐ Anomaly form required
All samples present and accounted for on COC	WWS 08/22/18	☐ Anomaly form required
Sample IDs are legible on COC and Bottles	KE	☐ Anomaly form required
Samples conform to the description on the COC	KE	☐ Anomaly form required
Samples are within hold, intact and suitable for testing	KE	☐ Anomaly form required
Preservation documented as required: ☐ $Na_2S_2O_3$ ☑ Trizma ☐ NA	WWS 08/22/18	
Samples stored ☑ WR2 Shelf: 3-3, E-3 ☐ WF2 Shelf: _____ ☐ R1	By Initials/Date: WWS 08/22/18	

Section 4: Comments

	Initials/Date
☐ Sample Inventory Form Attached	—

August 29, 2018

Vista Work Order No. 1802614

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

Dear Ms. Hill,

Enclosed are the amended results for the sample set received at Vista Analytical Laboratory on August 22, 2018 under your Project Name 'CTO-08, MCOLF Atlantic PFAS DW Investigation'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director

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

Vista Work Order No. 1802614
Case Narrative

Sample Condition on Receipt:

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Quality Control

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

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

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

A Laboratory Fortified Sample Matrix (LFSM) and Laboratory Fortified Sample Matrix Duplicate (LFSMD) were performed on sample "CH-AT-1RW199-0818". The analyte recoveries and RPDs were within the method acceptance criteria.

Table of Contents

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1802614-01	CH-AT-1RW199-0818	MS/MSD20-Aug-18 16:13	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
				Polypropylene, 250mL
1802614-02	CH-AT-1FB199-0818	20-Aug-18 16:14	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-03	CH-AT-1RW200-0818	20-Aug-18 16:35	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-04	CH-AT-1FB200-0818	20-Aug-18 16:36	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-05	CH-AT-1RW201-0818	20-Aug-18 16:53	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL
1802614-06	CH-AT-1FB201-0818	20-Aug-18 16:54	22-Aug-18 10:09	Polypropylene, 250mL
				Polypropylene, 250mL

ANALYTICAL RESULTS

Sample ID: LRB

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Aqueous

Laboratory Data

Lab Sample: B8H0182-BLK1
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1
PFOA	335-67-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1
PFOS	1763-23-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	111	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1
13C2-PFDA	SURR	97.3	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:17	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: LFB

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigatior
Matrix: Aqueous

Laboratory Data

Lab Sample: B8H0182-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	17.7	17.7	100	50 - 150		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1
PFOA	335-67-1	18.3	20.0	91.4	50 - 150		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1
PFOS	1763-23-1	17.1	18.5	92.6	50 - 150		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	114	70- 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1
13C2-PFDA	SURR	99.3	70- 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 10:30	1

Sample ID: CH-AT-1RW199-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:13

Laboratory Data

Lab Sample: 1802614-01
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
PFOA	335-67-1	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
PFOS	1763-23-1	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	108	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
13C2-PFDA	SURR	92.8	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1RW199-0818 **EPA Method 537**

Name:	CH2M Hill	Lab Sample:	B8H0182-MS1/B8H0182-MSD1	Source Lab Sample:	1802614-01
Project:	CTO-08, MCOLF Atlantic PFAS DW Investigatio	QC Batch:	B8H0182	Date Extracted:	23-Aug-18
Matrix:	Aqueous	Samp Size:	0.249/0.251 L	Column:	BEH C18

Analyte	CAS Number	Sample (ng/L)	LFSM (ng/L)	LFSM Spike Amt	LFSM % Rec	LFSM Quals	LFSMD (ng/L)	LFSMD Spike Amt	LFSMD % Rec	RPD	LFSMD Quals	%Rec Limits	RPD Limits	LFSM Analyzed	LFSM Dil	LFSMD Analyzed	LFSMD
PFBS	375-73-5	ND	16.9	17.8	95.0		16.5	17.6	93.7	1.38		50-150	30	27-Aug-18 10:43	1	27-Aug-18 10:56	1
PFOA	335-67-1	ND	20.0	20.1	98.4		19.2	19.9	95.6	2.89		50-150	30	27-Aug-18 10:43	1	27-Aug-18 10:56	1
PFOS	1763-23-1	ND	18.8	18.6	101		17.3	18.4	94.1	7.07		50-150	30	27-Aug-18 10:43	1	27-Aug-18 10:56	1

Labeled Standards	Type	LFSM % Rec	LFSM Quals	LFSMD % Rec	LFSMD Quals	Limits	LFSM Analyzed	LFSM Dil	LFSMD Analyzed	LFSMD
13C2-PFHxA	SURR	113		109		70-130	27-Aug-18 10:43	1	27-Aug-18 10:56	1
13C2-PFDA	SURR	99.8		100		70-130	27-Aug-18 10:43	1	27-Aug-18 10:56	1

Sample ID: CH-AT-1FB199-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:14

Laboratory Data

Lab Sample: 1802614-02
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
PFOA	335-67-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
PFOS	1763-23-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	120	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
13C2-PFDA	SURR	97.4	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1RW200-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:35

Laboratory Data

Lab Sample: 1802614-03
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
PFOA	335-67-1	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
PFOS	1763-23-1	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	109	70 - 130		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
13C2-PFDA	SURR	92.9	70 - 130		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1FB200-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:36

Laboratory Data

Lab Sample: 1802614-04
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
PFOA	335-67-1	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
PFOS	1763-23-1	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	113	70 - 130		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
13C2-PFDA	SURR	105	70 - 130		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1RW201-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:53

Laboratory Data

Lab Sample: 1802614-05
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
PFOA	335-67-1	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
PFOS	1763-23-1	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	116	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
13C2-PFDA	SURR	99.2	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: CH-AT-1FB201-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:54

Laboratory Data

Lab Sample: 1802614-06
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
PFOA	335-67-1	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
PFOS	1763-23-1	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	113	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
13C2-PFDA	SURR	96.5	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank**
Conc.	**Concentration**
D	**Dilution**
DL	**Detection limit**
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**
LOD	**Limits of Detection**
LOQ	**Limits of Quantitation**
M	**Estimated Maximum Possible Concentration (CA Region 2 projects only)**
NA	**Not applicable**
ND	**Not Detected**
Q	**Ion ratio outside of 70-130% of Standard Ratio. (DOD PFAS projects only)**
TEQ	**Toxic Equivalency**
U	**Not Detected (specific projects only)**
*****	**See Cover Letter**

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1802614 Temp: 0.0 °C
Storage ID: WR-2 Storage Secured: Yes ☑ No ☐

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

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

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

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Mike Witmer MW	8/21/18	1715	Marissa Sparks MSparks	08/22/18	1021
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: FEDEX

Tracking No:

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	Add Analysis(es) Requested: Mod EPA Method 537 PFOA/PFOS	UCMR3 PFAS List 6	537 List: 14	Full List of 26	Other: Please List Below	EPA Method 537(DW only) PFOA/PFOS/PFBS	UCMR3 PFAS List 6	PFAS List: 14	Comments
CH-AT-1RW199-0818	8/20/18	16:13		2	P	DW						X			TZ preservative
CH-AT-1RW199-0818-MS	8/20/18	16:13		2	P	DW						X			TZ preservative
CH-AT-1RW199-0818-SD	8/20/18	16:13		2	P	DW						X			TZ preservative
CH-AT-1FB199-0818	8/20/18	16:14		2	P	DW						X			TZ preservative
CH-AT-1RW200-0818	8/20/18	16:35		2	P	DW						X			TZ preservative
CH-AT-1FB200-0818	8/20/18	16:36		2	P	DW						X			TZ preservative
CH-AT-1RW201-0818	8/20/18	16:53		2	P	DW						X			TZ preservative
CH-AT-1FB201-0818	8/20/18	16:54		2	P	DW						X			TZ preservative

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

SEND DOCUMENTATION AND RESULTS TO:

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

Container Types: P= HDPE, PJ= HDPE Jar, O = Other

Bottle Preservation Type: T = Thiosulfate, TZ = Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

Vista Analytical Laboratory

Sample Log in Checklist

1 of 1

WO#: 1802614
SDG#: D3
TAT: 7

Section 1: Container Receipt

Delivered By: ☑ FedEx ☐ UPS ☐ On Trac ☐ GSO ☐ DHL ☐ Hand Delivered ☐ Other

Number of Containers	Arrival Date	Arrival time	Received By/Date	LR-SCL Initiated By
1	08/22/18	1009	WWS 08/22/18	WWS 08/22/18

Section 2: Sample Receipt Condition and Initial Storage

Container Condition	Chain of Custody	Preservation Type	Temperature	Storage Location	Initials/ Date
☑ Shipping container intact ☑ Custody Seals present ☑ Custody seals intact	☑ COC present ☑ Relinquished by section complete	☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ Other	Thermometer ID: **IR-4** ☐ Probe used Temp (uncorrected): 0.1 °C Temp (corrected): 0.0 °C ☐ Anomaly form required	☑ WR2 ☐ WF2 ☐ NA	WWS 08/22/18

Airbill/Trk # 7750 2331 9881

Shipping container ☑ Vista ☐ Client ☑ Retain ☐ Return ☐ Dispose — By Initials/Date: WWS 08/22/18

Section 3: Sample Log In

	YES Initials/Date	NO Initials/Date
COC identifies sample ID, date and time of collection, collector's name	WWS 08/22/18	☐ Anomaly form required
COC identifies sample matrix and test method	WWS 08/22/18	☐ Anomaly form required
All samples present and accounted for on COC	WWS 08/22/18	☐ Anomaly form required
Sample IDs are legible on COC and Bottles	KE	☐ Anomaly form required
Samples conform to the description on the COC	KE	☐ Anomaly form required
Samples are within hold, intact and suitable for testing	KE	☐ Anomaly form required
Preservation documented as required: ☐ $Na_2S_2O_3$ ☑ Trizma ☐ NA	WWS 08/22/18	
Samples stored ☑ WR2 Shelf: 3-3, E-3 ☐ WF2 Shelf: _____ ☐ R1	By Initials/Date: WWS 08/22/18	

Section 4: Comments

	Initials/Date
☐ Sample Inventory Form Attached	—

EXTRACTION INFORMATION

RUSH

Process Sheet
Workorder: 1802614

7-DAY TAT

Prep Expiration: 2018-Sep-03
Client: CH2M Hill

Workorder Due: 29-Aug-18 00:00
TAT: 7

Method: **537 PFAS DW DoD Unmodified**
Matrix: **Aqueous**

Prep Batch: B8H0187

Prep Data Entered: WJ 8/24/18
Date and Initials

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

Initial Sequence: S8H0093

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1802614-01	A B C	☑	☑	CH-AT-1RW199-0818	**MS/MSD**	WR-2 A-3	Polypropylene, 250mL
1802614-02		☑	☑	CH-AT-1FB199-0818		WR-2 A-3	Polypropylene, 250mL
1802614-03		☑	☑	CH-AT-1RW200-0818		WR-2 A-3	Polypropylene, 250mL
1802614-04		☑	☑	CH-AT-1FB200-0818		WR-2 A-3	Polypropylene, 250mL
1802614-05		☑	☑	CH-AT-1RW201-0818		WR-2 A-3	Polypropylene, 250mL
1802614-06		☑	☑	CH-AT-1FB201-0818		WR-2 A-3	Polypropylene, 250mL

Pre-Prep Check Out: 8/22/18 ST
Pre-Prep Check In: 8/22/18 ST

Prep Check Out: FR 8.23.18
Prep Check In: N/A

Prep Reconciled Initals/Date: 8/22/18 ST
Spike Reconciled Initals/Date: FR 8.23.18
VialBoxID: Black Hole

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS DW DoD Unmodified
Method: 537 PFAS DW Unmodified MI Sp Sig Digs

B8H0182

Chemist: 7R
Prep Date: 8.23.18
Prep Time: 9:00

Prepared using: LCMS - SPE Extraction-LCMS

BalanceID: HRMS-8 HRMS-8

Cen	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g) 8/24/18 AE	Sample Amt. (L) SR 8/24/18	SS/NS CHEM/WIT DATE	SPE	IS CHEM/WIT DATE
☐	B8H0182-BLK1 (A)	N/A	N/A	(0.250)	7R 8.23.18	7R 8.23.18	7R 8.24.18
☐	B8H0182-BS1	↓	↓	(0.250)	↓	↓	↓
☐	B8H0182-MS1 1802614-01 (B)	286.12	37.26	0.24886 ✓			
☐	B8H0182-MSD1 1802614-01	288.94	37.64	0.25130 ✓			
☐	1802610-01	286.23	27.06	0.26117			
☐	1802610-02	288.48	26.99	0.26149			
☐	1802610-03	292.00	27.46	0.26454			
☐	1802610-04	~~299.25~~ 290.42	27.31	0.26311			
☐	1802610-05	~~297.48~~ 292.25	26.62	0.26663			
☐	1802610-06	287.48	27.70	0.25978			
☐	1802610-07	289.77	37.30	0.25247			
☐	1802610-08	293.20	26.77	0.26643			
☐	1802610-09	292.43	26.60	0.26583			
☐	1802610-10	285.70	26.70	0.25900			
☐	1802610-11	291.30	26.54	0.26476			
☐	1802610-12	285.78	26.87	0.25841			

8/22/18 SR

SS/IS: 18G2502, 20µL (comb)
NS: 18G2507, 20µL (V2)
IS/RS: 18G2503, 20µL (comb)

SPE Chem: Strata-X 33µm 500mg 6mL
Lot#: S18-003824
Ele SOLV: MeOH
Lot#: JB069209
Final Volume(s) 1 mL

Notes: (A) 1.25g of teizma added to QC's - 8/22/18 SR
(B) Sample had a light brown discoloration 7R 8.23.18

Comments: Assume 1 g = 1 mL
Cen = Centrifuged

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS DW DoD Unmodified

Method: 537 PFAS DW Unmodified MI Sp Sig Digs

B8H0182

Chemist: 7R

Prep Date: 8.23.18

Prep Time: 9:00

Prepared using: LCMS - SPE Extraction-LCMS

BalanceID: HRMS-8 HRMS-8

Cen	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g) 8/24/18 AE	Sample Amt. (L) JB 8/29/18	SS/NS CHEM/WIT DATE	SPE	IS CHEM/WIT DATE
☐	1802614-01 (B)	287.99	37.56	0.25043 ✓	7R MJ 8.23.18	7R MJ 8.23.18	7R MJ 8.24.18
☐	1802614-02	287.47	37.38	0.25009 ✓	↓	↓	↓
☐	1802614-03 (B)	284.68	37.21	0.24747 ✓			
☐	1802614-04	292.63	37.43	0.25520 ✓			
☐	1802614-05 (B)	286.32	37.33	0.24899 ✓			
☐	1802614-06	286.11	37.52	0.24859 ✓			

SS/IS: 18G2502, 20 µL (comb)

NS: 18G2507, 20 µL (2)

IS/RS: 18G2503, 20 µL (comb)

SPE Chem: Strata-X 33µm 500mg/6mL

Lot#: S18-003824

Ele SOLV: MeOH

Lot#: JB069209

Final Volume(s): 1 mL

Notes: (B) Sample had a light brown discoloration 7R 8.23.18

Comments: Assume 1 g = 1 mL

Cen = Centrifuged

Batch: B8H0182

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1802610-01	0.26117 ✓	NA	NA	1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-02	0.26149 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-03	0.26454 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-04	0.26311 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-05	0.26563 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-06	0.25978 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-07	0.25247 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-08	0.26643 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-09	0.26583 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-10	0.259 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-11	0.26476 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802610-12	0.25841 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
1802614-01	0.25043 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW Unmodified
~~**1802614-01**~~	~~0.25043~~			~~1000~~	~~23-Aug-18 09:00~~	~~FBR~~			~~Drinking Water~~	~~537 PFAS DW DoD Unmoc~~
1802614-02	0.25009 ✓	NA	NA	1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW DoD Unmoc
1802614-03	0.24747 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW DoD Unmoc
1802614-04	0.2552 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW DoD Unmoc
1802614-05	0.24899 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW DoD Unmoc
1802614-06	0.24859 ✓			1000	23-Aug-18 09:00	FBR			Drinking Water	537 PFAS DW DoD Unmoc
B8H0182-BLK1	0.25 ✓			1000	23-Aug-18 09:00	FBR				QC
B8H0182-BS1	0.25 ✓			1000	23-Aug-18 09:00	FBR	18G2507 ✓	20 ✓		QC
B8H0182-MS1	0.24886 ✓			1000	23-Aug-18 09:00	FBR	18G2507 ✓	20 ✓		QC
B8H0182-MSD1	0.2513 ✓			1000	23-Aug-18 09:00	FBR	18G2507 ✓	20 ✓		QC

wy 8/24/18

wy 8/24/18

wy 8/24/18

Printed: 8/24/2018 10:58:32AM

SAMPLE DATA –EPA METHOD 537

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-8.qld

Last Altered: Monday, August 27, 2018 16:53:28 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:54:49 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_8, Date: 27-Aug-2018, Time: 10:17:40, ID: B8H0182-BLK1 LRB 0.25, Description: LRB

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5		2.50e4	0.250		3.01				
2	2	PFHxA	312.7 > 268.8	3.58e1	1.32e4	0.250		3.38	3.40	0.0272	0.153	
3	3	PFHpA	362.7 > 318.8		1.32e4	0.250		3.92				
4	4	PFHxS	398.7 > 80.7		2.50e4	0.250		4.06				
5	5	PFOA	412.8 > 369.0	4.33e1	1.32e4	0.250		4.33	4.32	0.0328	0.180	
6	6	PFNA	462.9 > 419.1		1.32e4	0.250		4.68				
7	7	PFOS	498.8 >80.7		2.50e4	0.250		4.76				
8	8	PFDA	512.8 > 469.0	5.61e1	1.32e4	0.250		4.97	5.01	0.0426	0.192	
9	9	N-MeFOSAA	569.7 > 419.0		2.05e4	0.250		5.13				
10	10	N-EtFOSAA	583.6 >419.1		2.05e4	0.250		5.25				
11	11	PFUnA	562.7 > 518.9		1.32e4	0.250		5.23				
12	12	PFDoA	612.5 > 319.0		1.32e4	0.250		5.44				
13	13	PFTrDA	662.4 > 618.7		1.32e4	0.250		5.64				
14	14	PFTeDA	712.2>668.4		1.32e4	0.250		5.83				
15	15	13C2-PFHxA	314.8 > 269.9	9.51e3	1.32e4	0.250	0.651	3.48	3.40	7.21	44.3	110.8
16	16	13C2-PFDA	514.8 > 470.0	1.32e4	1.32e4	0.250	1.028	4.94	5.01	10.0	38.9	97.3
17	17	d5-N-EtFOSAA	588.7> 419.1	2.38e4	2.05e4	0.250	1.457	5.13	5.24	46.4	127	79.6
18	18	13C2-PFOA	414.7 > 369.9	1.32e4	1.32e4	0.250	1.000	4.45	4.33	10.0	40.0	100.0
19	19	13C4-PFOS	502.8>80.5	2.50e4	2.50e4	0.250	1.000	4.84	4.76	28.7	115	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	2.05e4	2.05e4	0.250	1.000	5.21	5.13	40.0	160	100.0

CGH 8/27/2018

Vista Analytical Laboratory

MMM 8/28/2018

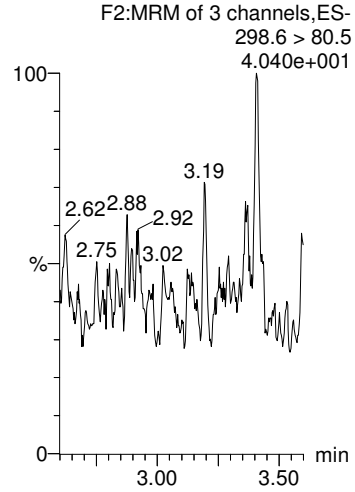
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-8.qld

Last Altered: Monday, August 27, 2018 16:53:28 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:54:49 Pacific Daylight Time

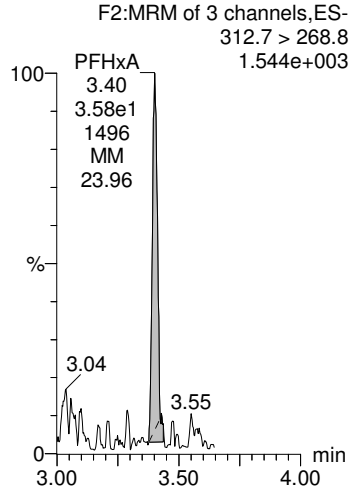
Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_8, Date: 27-Aug-2018, Time: 10:17:40, ID: B8H0182-BLK1 LRB 0.25, Description: LRB

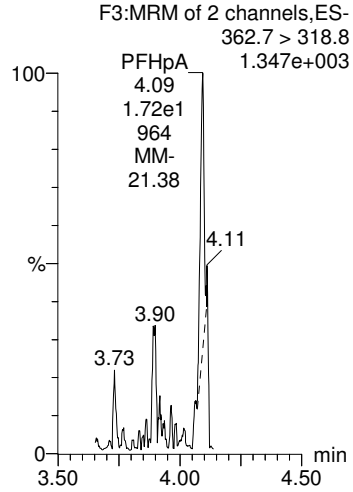
PFBS



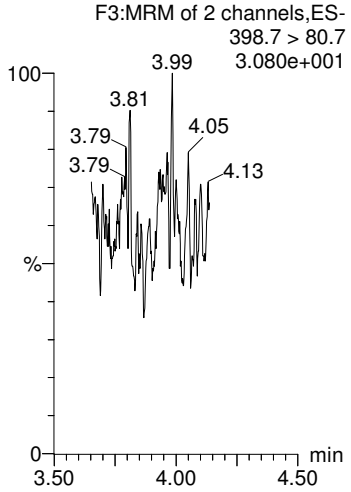
PFHxA



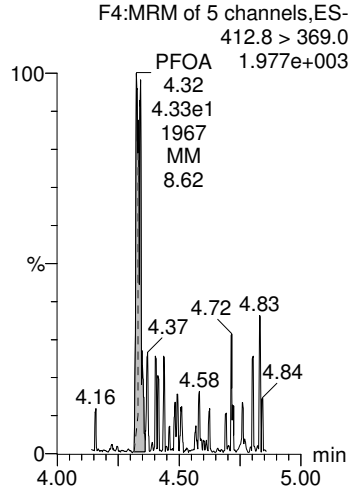
PFHpA



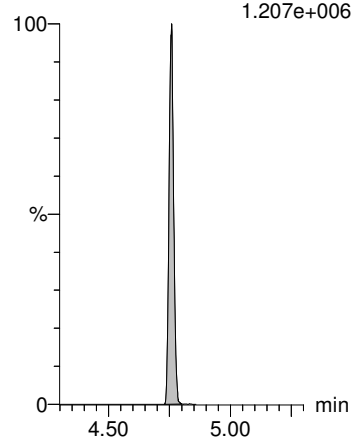
PFHxS



PFOA



13C4-PFOS



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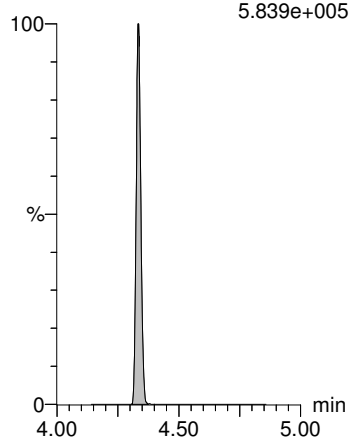

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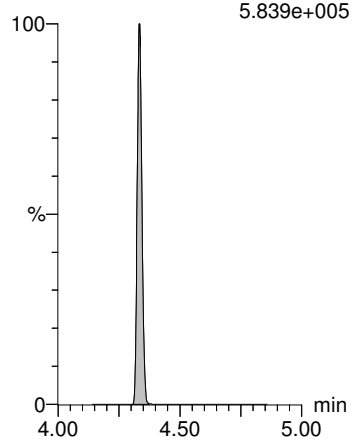
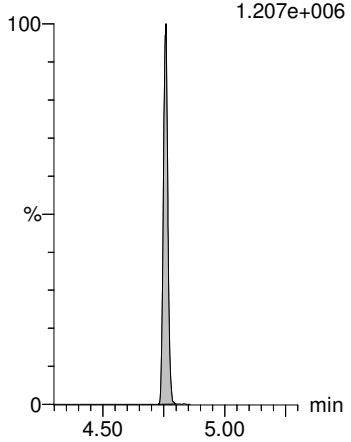


13C4-PFOS



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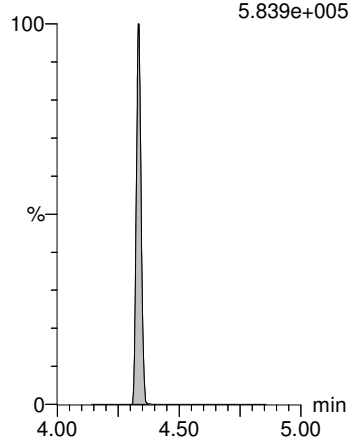


CGH 8/27/2018

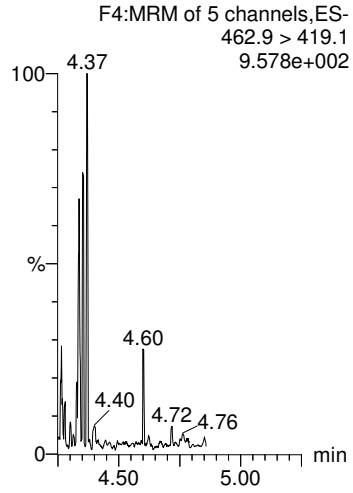
MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-8.qld

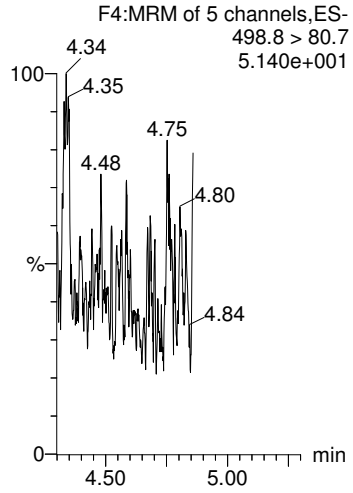
Last Altered: Monday, August 27, 2018 16:53:28 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:54:49 Pacific Daylight Time

Name: 180827G1_8, Date: 27-Aug-2018, Time: 10:17:40, ID: B8H0182-BLK1 LRB 0.25, Description: LRB

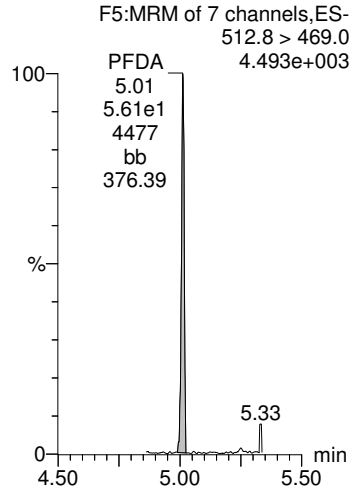
PFNA



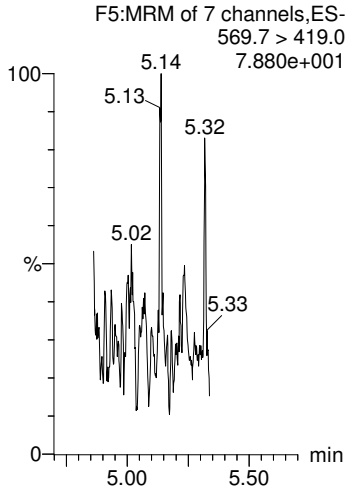
PFOS



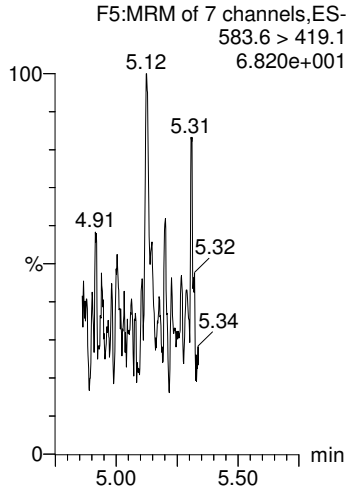
PFDA



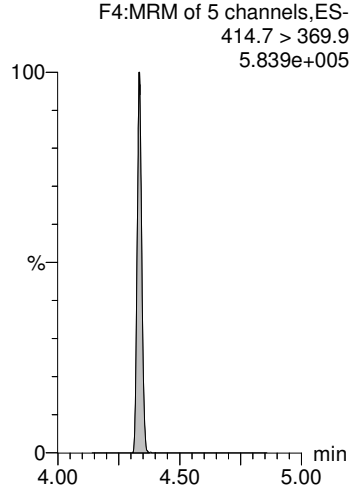
N-MeFOSAA



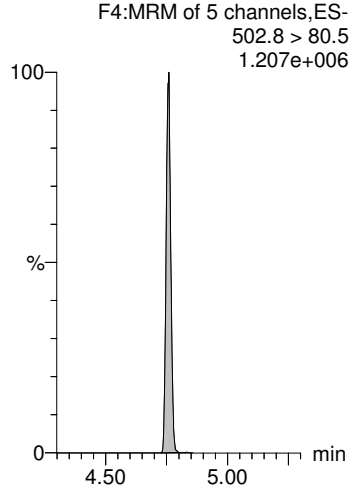
N-EtFOSAA



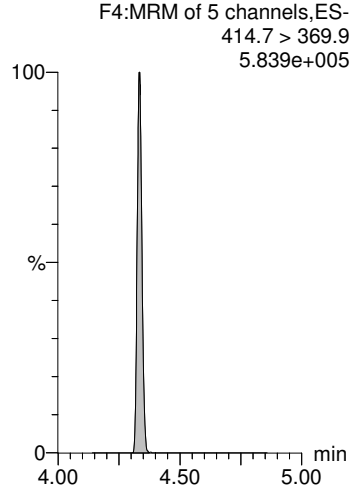
13C2-PFOA



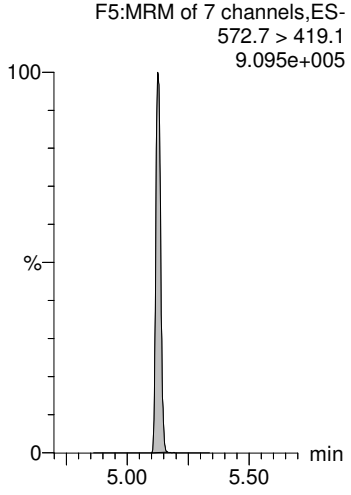
13C4-PFOS



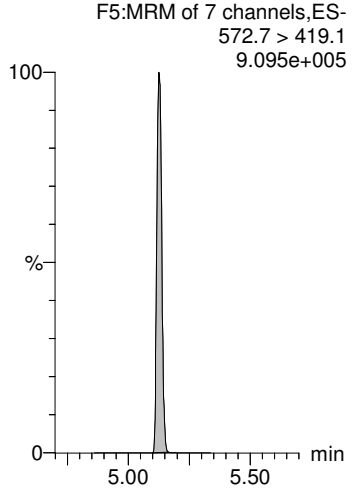
13C2-PFOA



d3-N-MeFOSAA



d3-N-MeFOSAA



CGH 8/27/2018

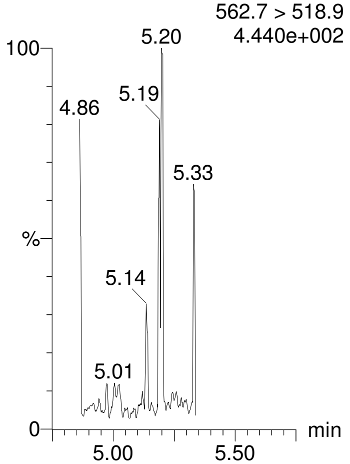
MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-8.qld

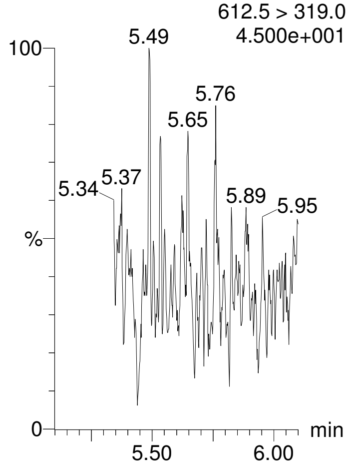
Last Altered: Monday, August 27, 2018 16:53:28 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:54:49 Pacific Daylight Time

Name: 180827G1_8, Date: 27-Aug-2018, Time: 10:17:40, ID: B8H0182-BLK1 LRB 0.25, Description: LRB

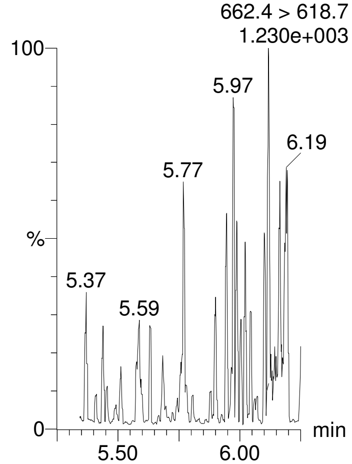
PFUnA
F5:MRM of 7 channels,ES-
562.7 > 518.9
4.440e+002



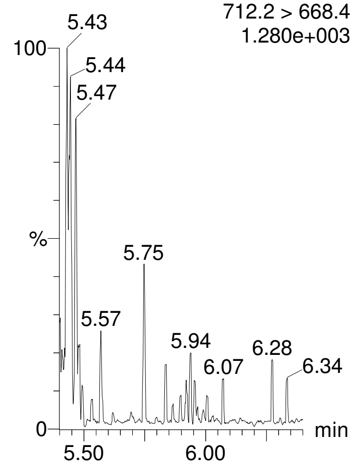
PFDoA
F6:MRM of 4 channels,ES-
612.5 > 319.0
4.500e+001



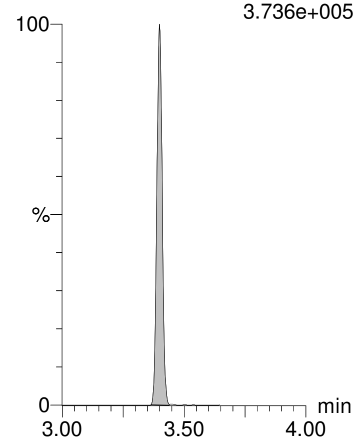
PFTrDA
F6:MRM of 4 channels,ES-
662.4 > 618.7
1.230e+003



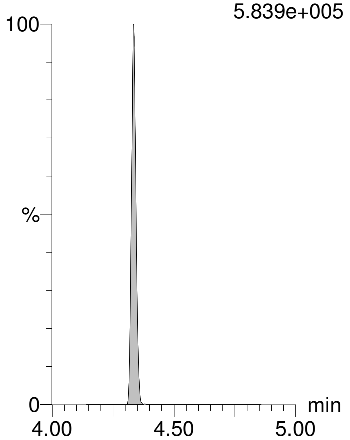
PFTeDA
F6:MRM of 4 channels,ES-
712.2 > 668.4
1.280e+003



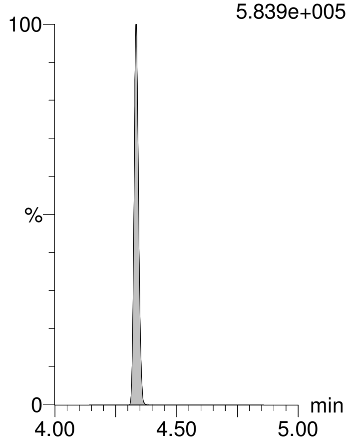
13C2-PFHxA
F2:MRM of 3 channels,ES-
314.8 > 269.9
3.736e+005



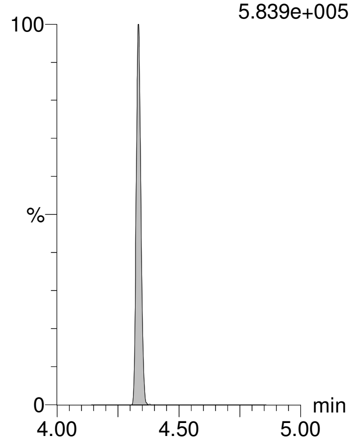
13C2-PFOA
F4:MRM of 5 channels,ES-
414.7 > 369.9
5.839e+005



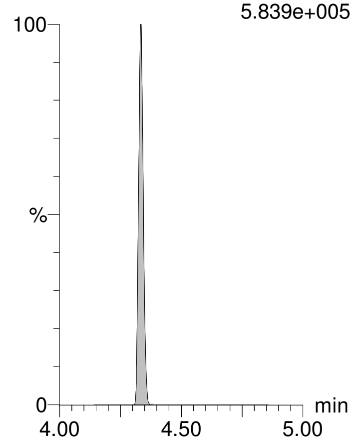
13C2-PFOA
F4:MRM of 5 channels,ES-
414.7 > 369.9
5.839e+005



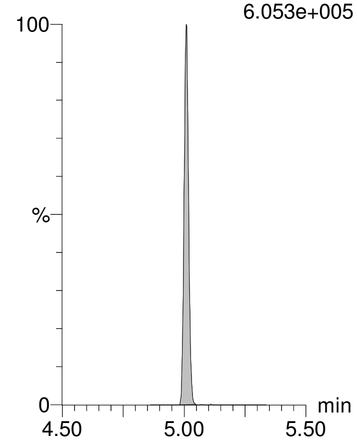
13C2-PFOA
F4:MRM of 5 channels,ES-
414.7 > 369.9
5.839e+005



13C2-PFOA
F4:MRM of 5 channels,ES-
414.7 > 369.9
5.839e+005



13C2-PFDA
F5:MRM of 7 channels,ES-
514.8 > 470.0
6.053e+005



CGH 8/27/2018

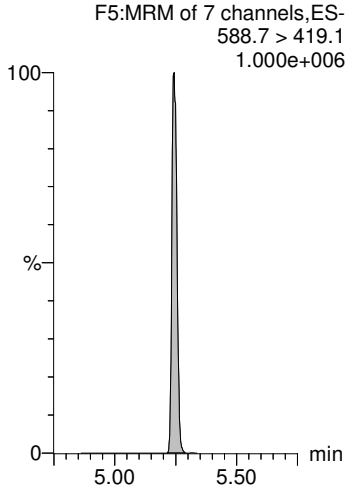
MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-8.qld

Last Altered: Monday, August 27, 2018 16:53:28 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:54:49 Pacific Daylight Time

Name: 180827G1_8, Date: 27-Aug-2018, Time: 10:17:40, ID: B8H0182-BLK1 LRB 0.25, Description: LRB

d5-N-EtFOSAA



CGH 8/27/2018

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-9.qld

Last Altered: Monday, August 27, 2018 16:56:50 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:57:27 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_9, Date: 27-Aug-2018, Time: 10:30:03, ID: B8H0182-BS1 LFB 0.25, Description: LFB

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	2.15e3	2.17e4	0.250		3.01	3.03	2.85	17.7	99.7
2	2	PFHxA	312.7 > 268.8	4.45e3	1.19e4	0.250		3.38	3.40	3.74	21.1	105.5
3	3	PFHpA	362.7 > 318.8	4.69e3	1.19e4	0.250		3.92	3.91	3.94	20.2	101.1
4	4	PFHxS	398.7 > 80.7	2.61e3	2.17e4	0.250		4.06	4.02	3.45	16.7	91.5
5	5	PFOA	412.8 > 369.0	3.98e3	1.19e4	0.250		4.34	4.33	3.34	18.3	91.4
6	6	PFNA	462.9 > 419.1	5.00e3	1.19e4	0.250		4.68	4.70	4.20	19.6	98.1
7	7	PFOS	498.8 >80.7	9.98e2	2.17e4	0.250		4.76	4.76	1.32	17.1	92.2
8	8	PFDA	512.8 > 469.0	5.15e3	1.19e4	0.250		4.97	5.01	4.33	19.5	97.5
9	9	N-MeFOSAA	569.7 > 419.0	2.44e3	1.70e4	0.250		5.13	5.13	5.76	18.3	91.3
10	10	N-EtFOSAA	583.6 >419.1	2.14e3	1.70e4	0.250		5.26	5.25	5.05	17.5	87.5
11	11	PFUnA	562.7 > 518.9	5.82e3	1.19e4	0.250		5.23	5.26	4.89	20.1	100.5
12	12	PFDoA	612.5 > 319.0	7.25e2	1.19e4	0.250		5.44	5.49	0.610	16.0	79.8
13	13	PFTrDA	662.4 > 618.7	4.91e3	1.19e4	0.250		5.64	5.69	4.12	16.9	84.3
14	14	PFTeDA	712.2>668.4	4.97e3	1.19e4	0.250		5.83	5.86	4.18	16.3	81.6
15	15	13C2-PFHxA	314.8 > 269.9	8.82e3	1.19e4	0.250	0.651	3.48	3.40	7.41	45.5	113.8
16	16	13C2-PFDA	514.8 > 470.0	1.22e4	1.19e4	0.250	1.028	4.94	5.01	10.2	39.7	99.3
17	17	d5-N-EtFOSAA	588.7> 419.1	2.29e4	1.70e4	0.250	1.457	5.13	5.25	54.0	148	92.7
18	18	13C2-PFOA	414.7 > 369.9	1.19e4	1.19e4	0.250	1.000	4.45	4.33	10.0	40.0	100.0
19	19	13C4-PFOS	502.8>80.5	2.17e4	2.17e4	0.250	1.000	4.84	4.76	28.7	115	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	1.70e4	1.70e4	0.250	1.000	5.21	5.13	40.0	160	100.0

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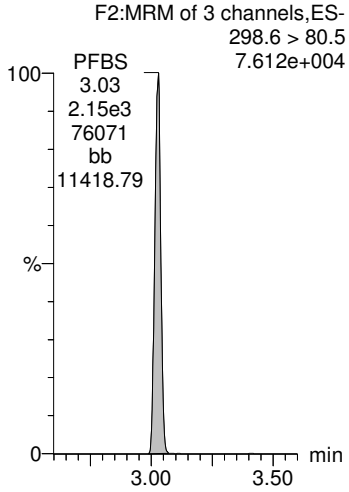
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-9.qld

Last Altered: Monday, August 27, 2018 16:56:50 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:57:27 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_9, Date: 27-Aug-2018, Time: 10:30:03, ID: B8H0182-BS1 LFB 0.25, Description: LFB

PFBS



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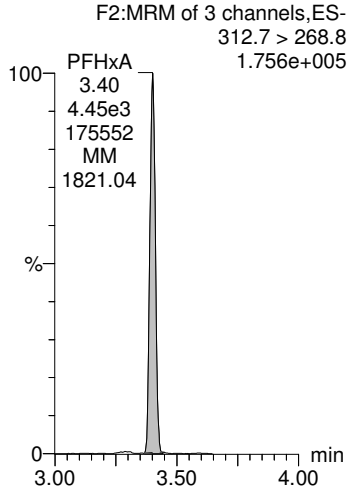

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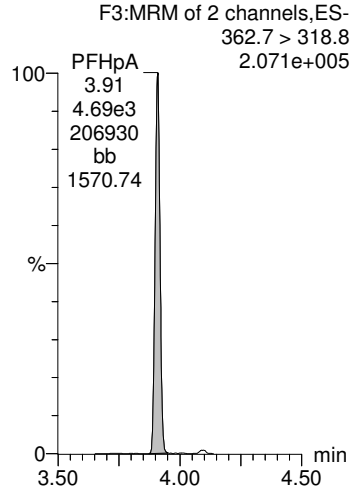

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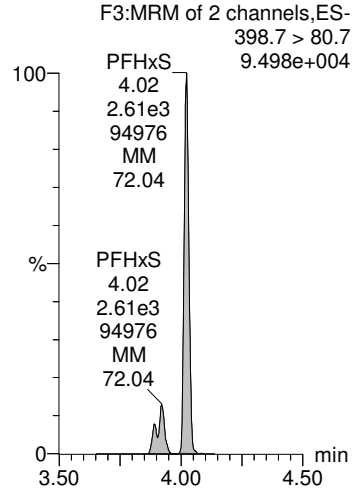

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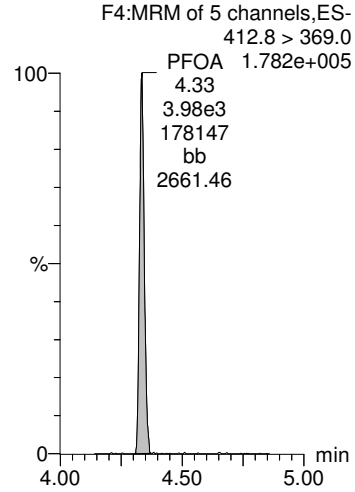

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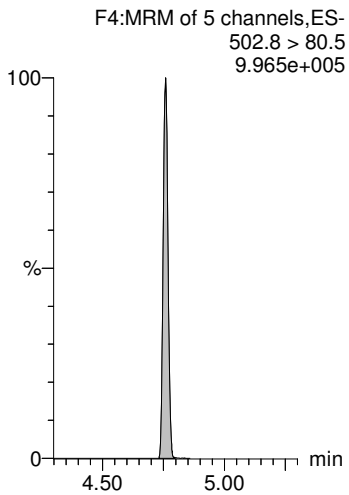

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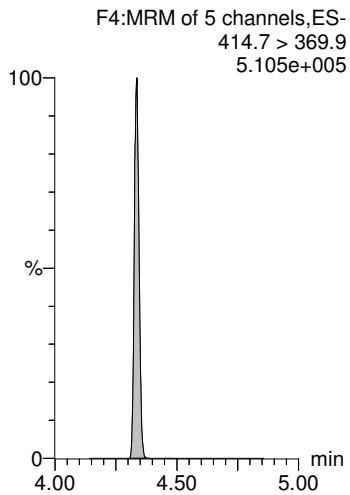

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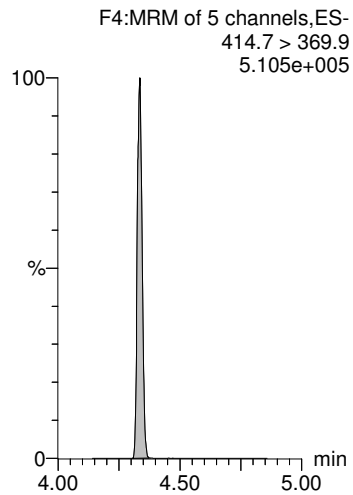

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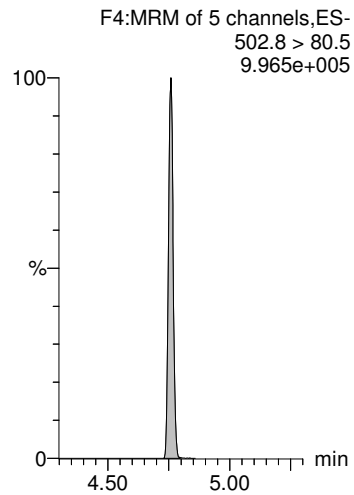

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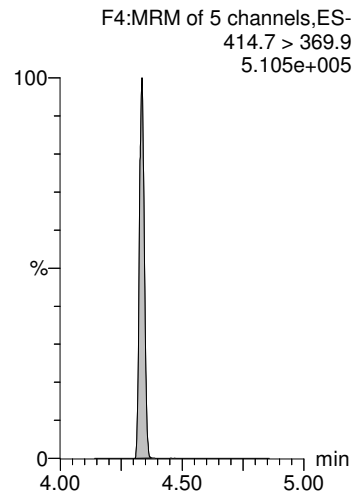

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Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-9.qld

Last Altered: Monday, August 27, 2018 16:56:50 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:57:27 Pacific Daylight Time

Name: 180827G1_9, Date: 27-Aug-2018, Time: 10:30:03, ID: B8H0182-BS1 LFB 0.25, Description: LFB

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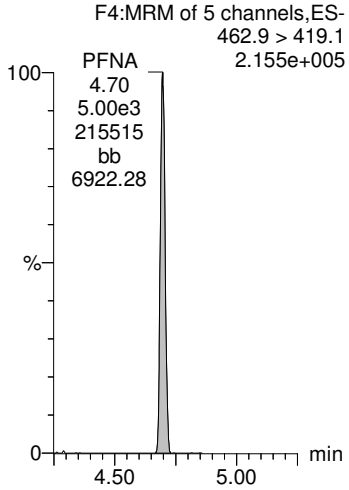

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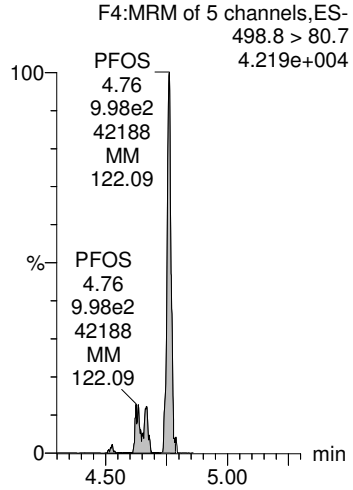

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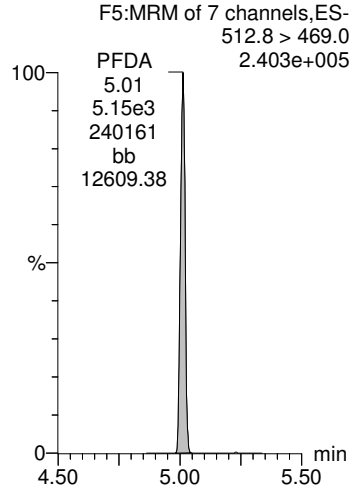

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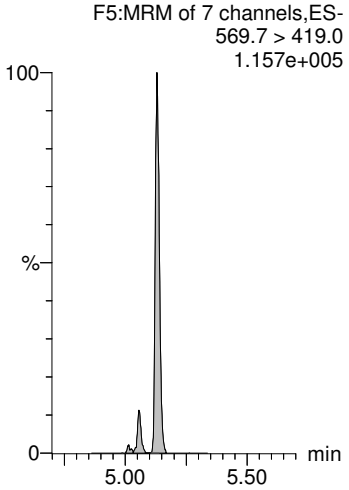

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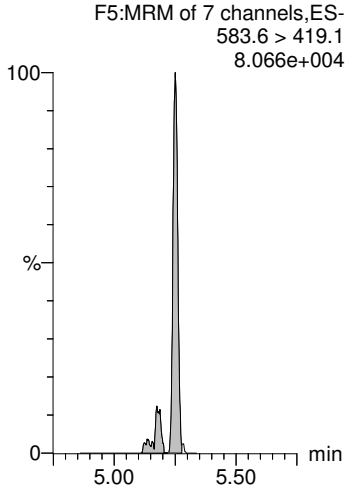

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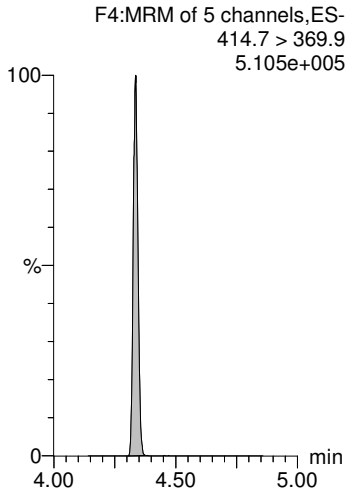

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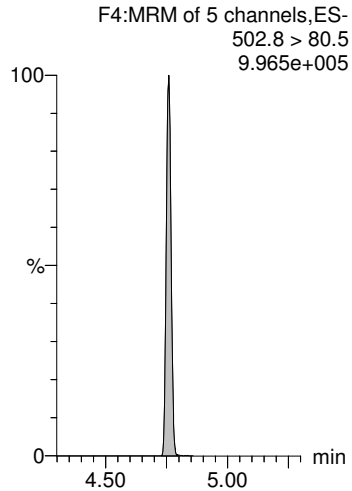

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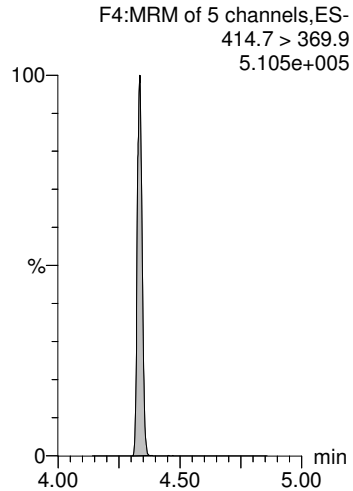

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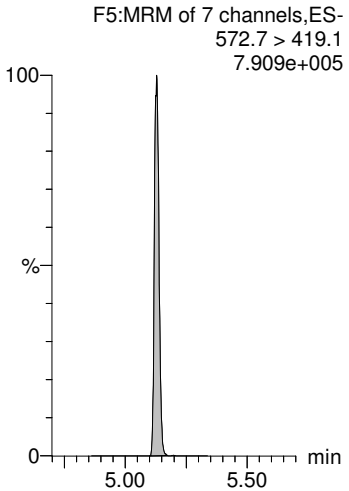

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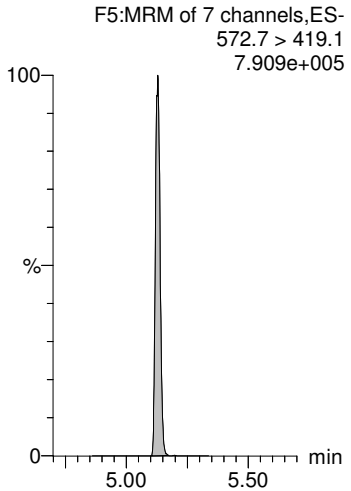

CGH 8/27/2018

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-9.qld

Last Altered: Monday, August 27, 2018 16:56:50 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:57:27 Pacific Daylight Time

Name: 180827G1_9, Date: 27-Aug-2018, Time: 10:30:03, ID: B8H0182-BS1 LFB 0.25, Description: LFB

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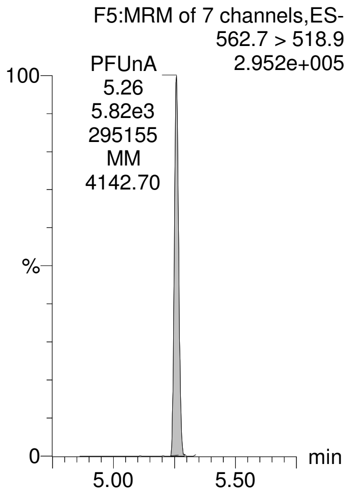

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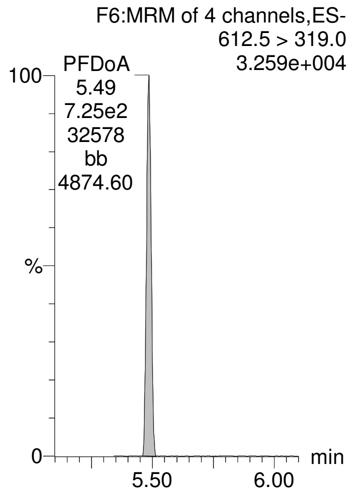

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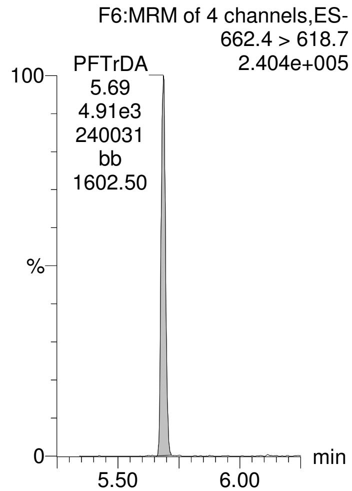

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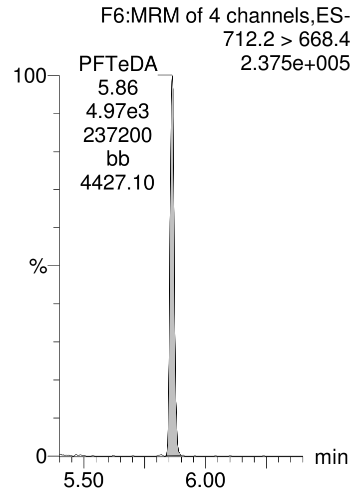

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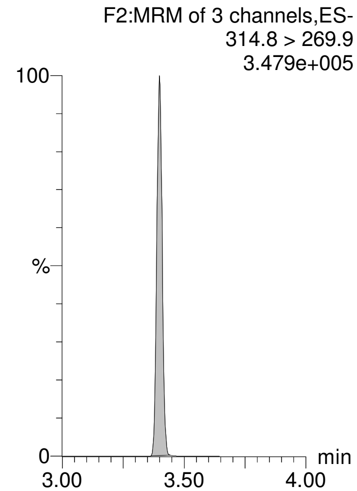

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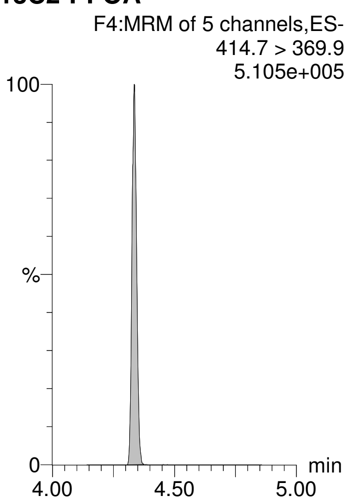

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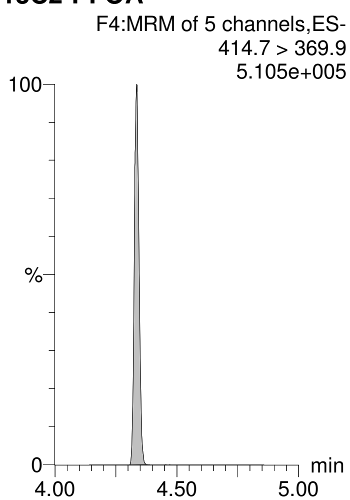

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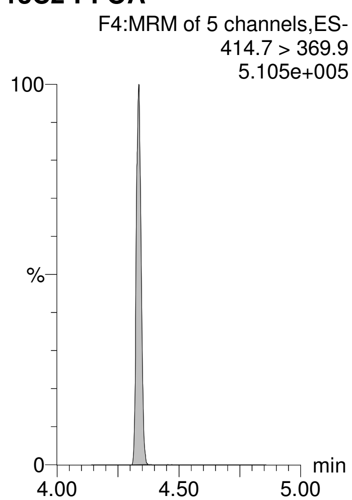

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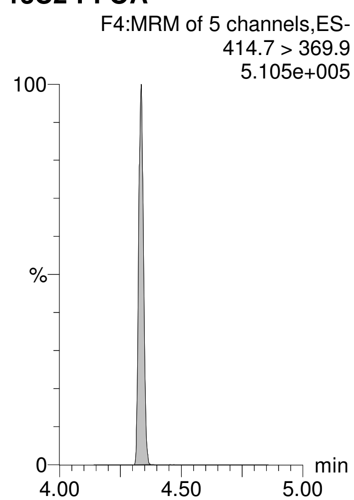

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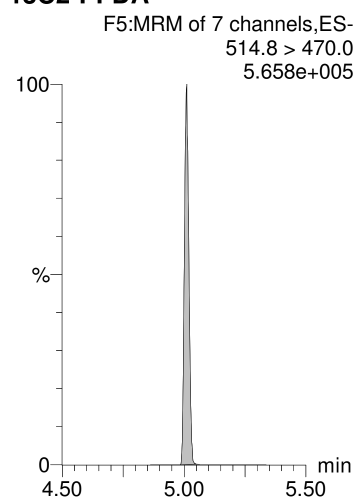

CGH 8/27/2018

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-9.qld

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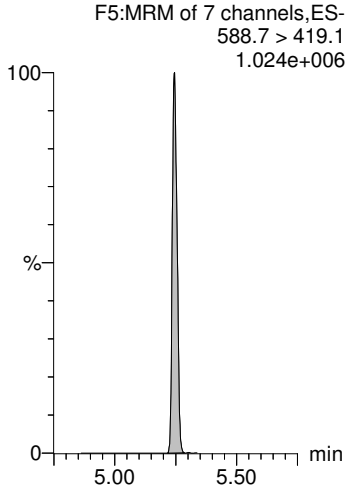
Printed: Monday, August 27, 2018 16:57:27 Pacific Daylight Time

Name: 180827G1_9, Date: 27-Aug-2018, Time: 10:30:03, ID: B8H0182-BS1 LFB 0.25, Description: LFB

d5-N-EtFOSAA



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Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-39.qld

Last Altered: Tuesday, August 28, 2018 12:11:31 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:31:57 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_39, Date: 27-Aug-2018, Time: 17:09:31, ID: 1802614-01 CH-AT-1RW199-0818 0.25043, Description: CH-AT-1RW199-0818

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5		2.24e4	0.250		3.01				
2	5	PFOA	412.8 > 369.0	4.10e1	1.25e4	0.250		4.33	4.34	0.0328	0.179	
3	7	PFOS	498.8 >80.7		2.24e4	0.250		4.76				
4	15	13C2-PFHxA	314.8 > 269.9	8.80e3	1.25e4	0.250	0.651	3.48	3.39	7.05	43.2	108.3
5	16	13C2-PFDA	514.8 > 470.0	1.19e4	1.25e4	0.250	1.028	4.94	5.00	9.54	37.0	92.8
6	17	d5-N-EtFOSAA	588.7> 419.1	2.39e4	1.80e4	0.250	1.457	5.12	5.24	53.2	146	91.3
7	18	13C2-PFOA	414.7 > 369.9	1.25e4	1.25e4	0.250	1.000	4.45	4.33	10.0	39.9	100.0
8	19	13C4-PFOS	502.8>80.5	2.24e4	2.24e4	0.250	1.000	4.84	4.76	28.7	115	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.80e4	1.80e4	0.250	1.000	5.21	5.12	40.0	160	100.0

CGH 8/28/2018

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MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-39.qld

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Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_39, Date: 27-Aug-2018, Time: 17:09:31, ID: 1802614-01 CH-AT-1RW199-0818 0.25043, Description: CH-AT-1RW199-0818

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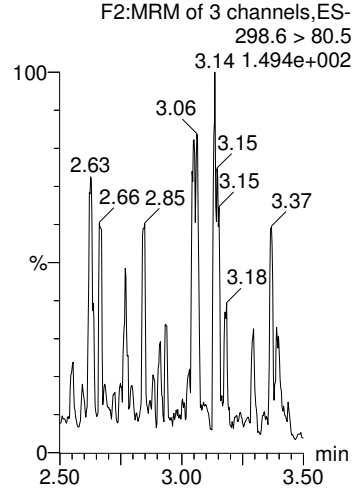

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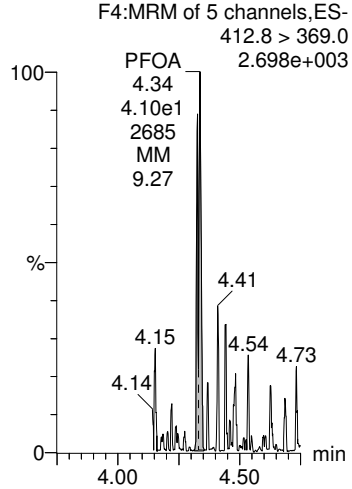

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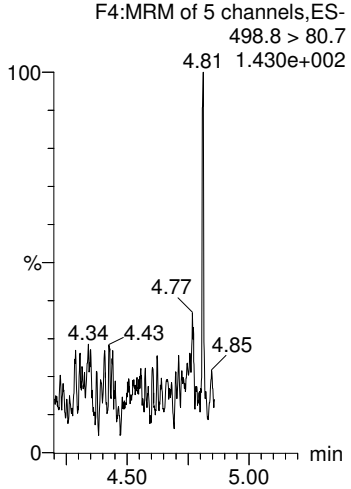

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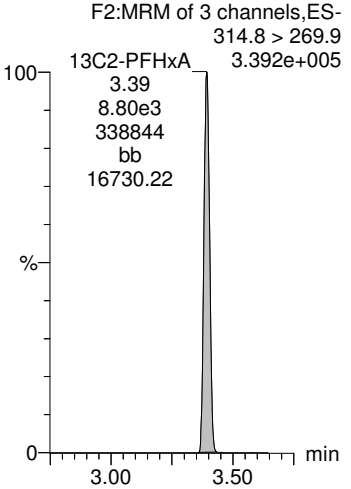

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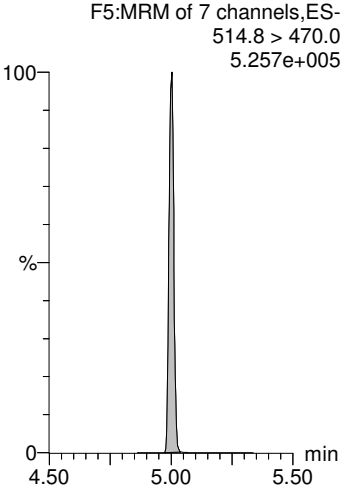

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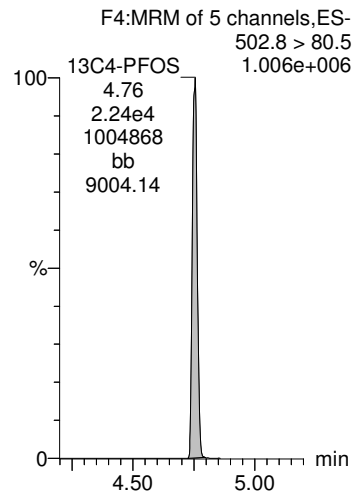

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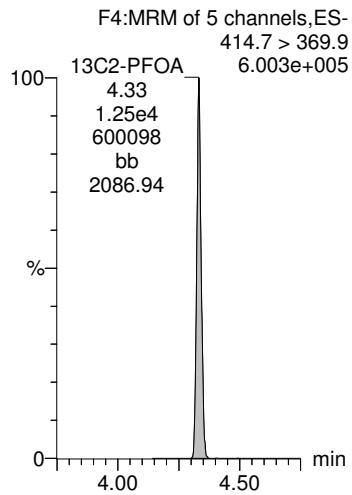

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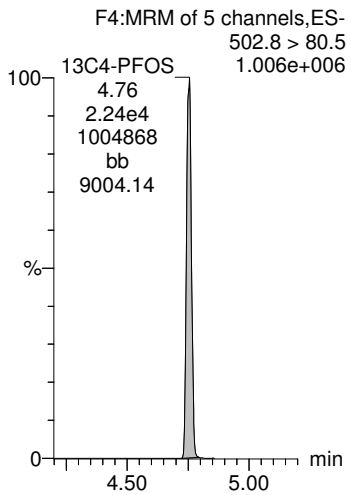
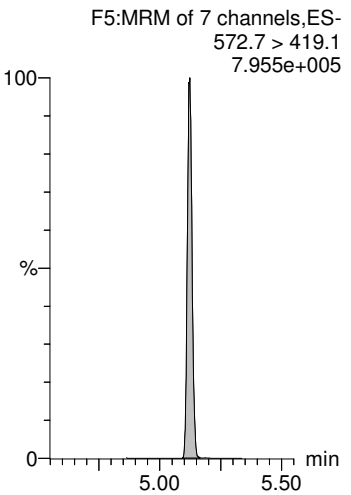


d3-N-MeFOSAA



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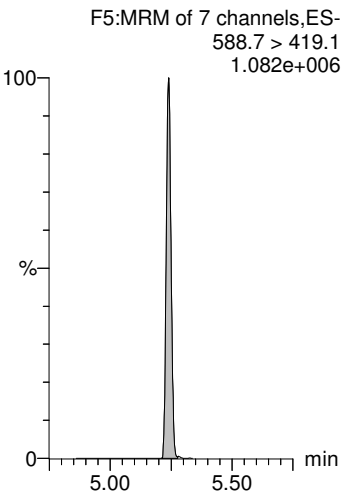

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MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-10.qld

Last Altered: Monday, August 27, 2018 16:59:35 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:31:00 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_10, Date: 27-Aug-2018, Time: 10:43:09, ID: B8H0182-MS1 LFSM 0.24886, Description: LFSM

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	2.06e3	2.18e4	0.249		3.01	3.03	2.71	16.9	
2	5	PFOA	412.8 > 369.0	4.23e3	1.17e4	0.249		4.34	4.34	3.63	20.0	
3	7	PFOS	498.8 >80.7	1.10e3	2.18e4	0.249		4.76	4.76	1.44	18.8	
4	15	13C2-PFHxA	314.8 > 269.9	8.60e3	1.17e4	0.249	0.651	3.48	3.40	7.36	45.4	113.1
5	16	13C2-PFDA	514.8 > 470.0	1.20e4	1.17e4	0.249	1.028	4.94	5.01	10.3	40.1	99.8
6	17	d5-N-EtFOSAA	588.7> 419.1	2.10e4	1.79e4	0.249	1.457	5.13	5.25	46.9	129	80.4
7	18	13C2-PFOA	414.7 > 369.9	1.17e4	1.17e4	0.249	1.000	4.45	4.33	10.0	40.2	100.0
8	19	13C4-PFOS	502.8>80.5	2.18e4	2.18e4	0.249	1.000	4.84	4.76	28.7	115	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.79e4	1.79e4	0.249	1.000	5.21	5.13	40.0	161	100.0

CGH 8/28/2018

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MMM 8/28/2018

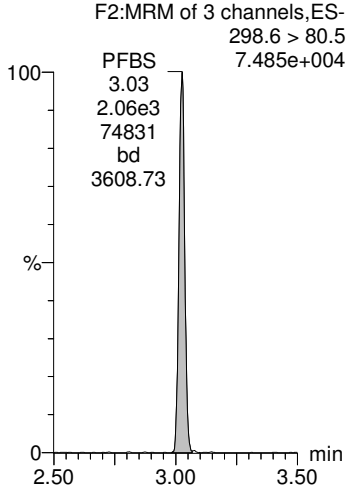
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-10.qld

Last Altered: Monday, August 27, 2018 16:59:35 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:31:00 Pacific Daylight Time

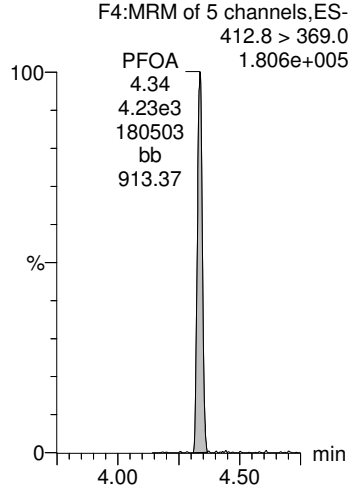
Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_10, Date: 27-Aug-2018, Time: 10:43:09, ID: B8H0182-MS1 LFSM 0.24886, Description: LFSM

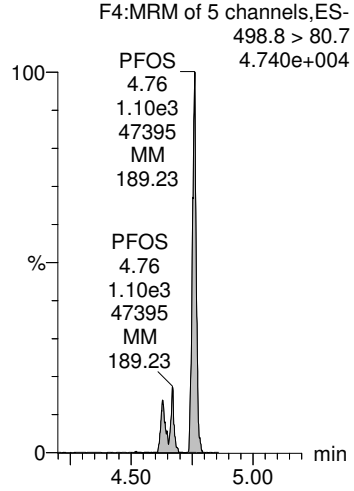
PFBS



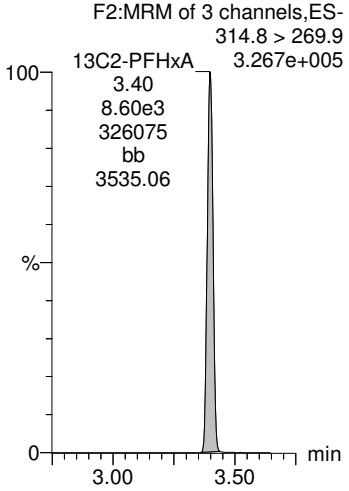
PFOA



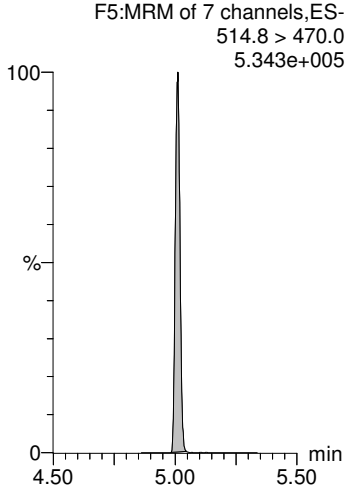
PFOS



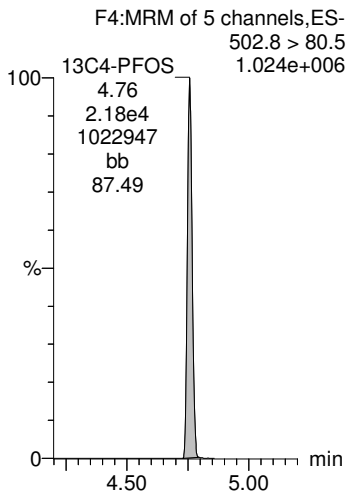
13C2-PFHxA



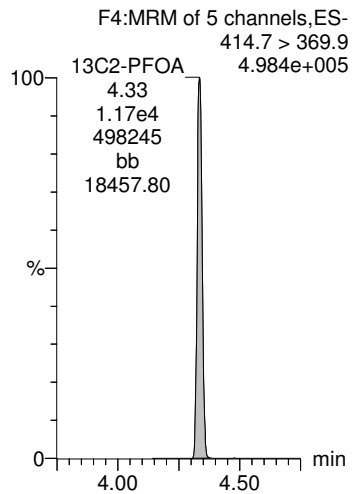
13C2-PFDA



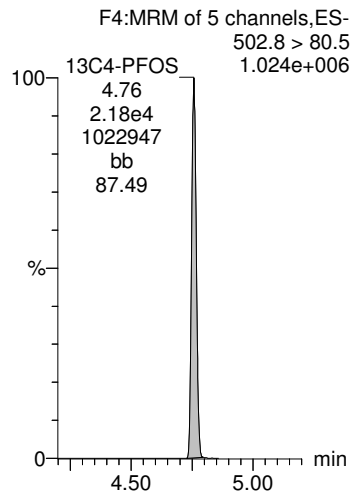
13C4-PFOS



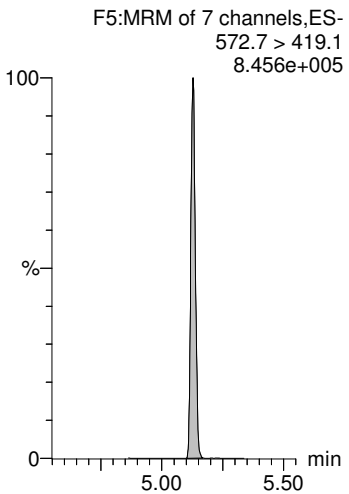
13C2-PFOA



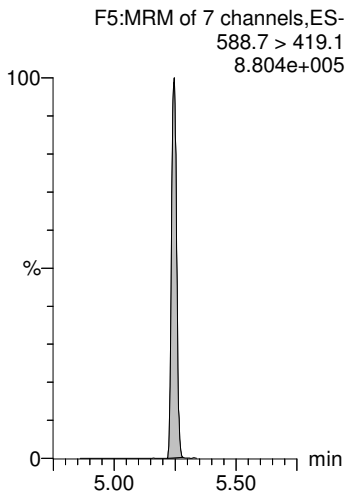
13C4-PFOS



d3-N-MeFOSAA



d5-N-EtFOSAA



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MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-11.qld

Last Altered: Monday, August 27, 2018 17:04:17 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:30:09 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_11, Date: 27-Aug-2018, Time: 10:56:15, ID: B8H0182-MSD1 LFSMD 0.2513, Description: LFSMD

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	2.05e3	2.21e4	0.251		3.01	3.02	2.67	16.5	
2	5	PFOA	412.8 > 369.0	4.51e3	1.28e4	0.251		4.33	4.33	3.53	19.2	
3	7	PFOS	498.8 >80.7	1.03e3	2.21e4	0.251		4.76	4.76	1.34	17.3	
4	15	13C2-PFHxA	314.8 > 269.9	9.08e3	1.28e4	0.251	0.651	3.47	3.40	7.10	43.4	109.1
5	16	13C2-PFDA	514.8 > 470.0	1.32e4	1.28e4	0.251	1.028	4.94	5.01	10.3	39.9	100.3
6	17	d5-N-EtFOSAA	588.7> 419.1	2.43e4	1.87e4	0.251	1.457	5.13	5.24	52.0	142	89.2
7	18	13C2-PFOA	414.7 > 369.9	1.28e4	1.28e4	0.251	1.000	4.45	4.33	10.0	39.8	100.0
8	19	13C4-PFOS	502.8>80.5	2.21e4	2.21e4	0.251	1.000	4.84	4.76	28.7	114	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.87e4	1.87e4	0.251	1.000	5.21	5.13	40.0	159	100.0

CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

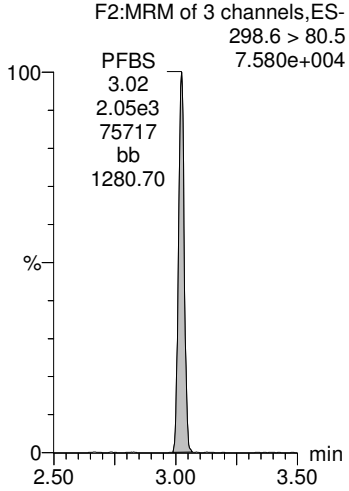
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-11.qld

Last Altered: Monday, August 27, 2018 17:04:17 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:30:09 Pacific Daylight Time

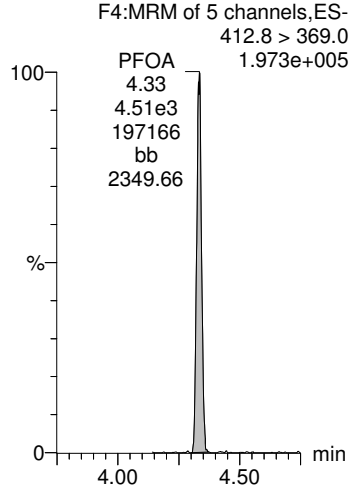
Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_11, Date: 27-Aug-2018, Time: 10:56:15, ID: B8H0182-MSD1 LFSMD 0.2513, Description: LFSMD

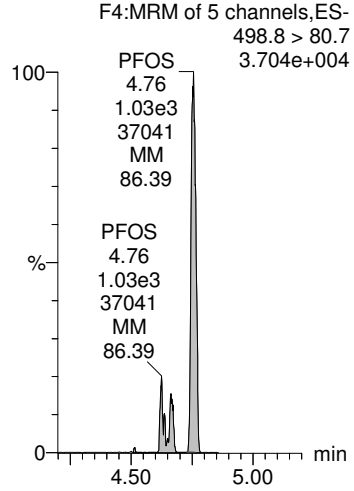
PFBS



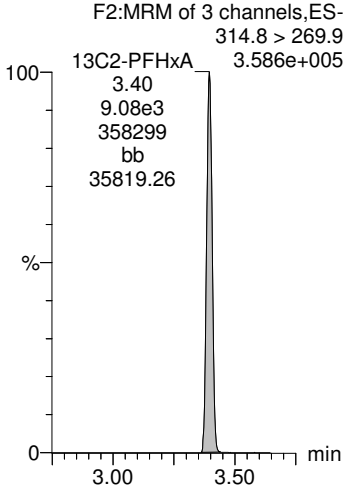
PFOA



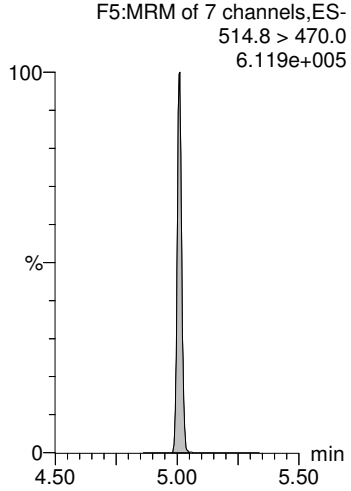
PFOS



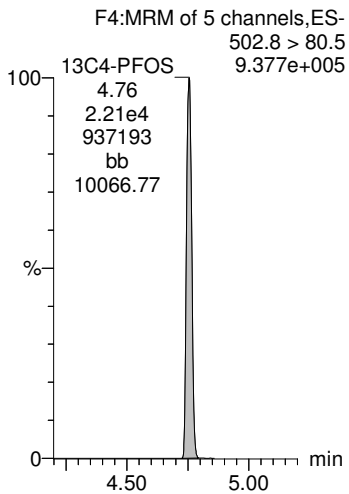
13C2-PFHxA



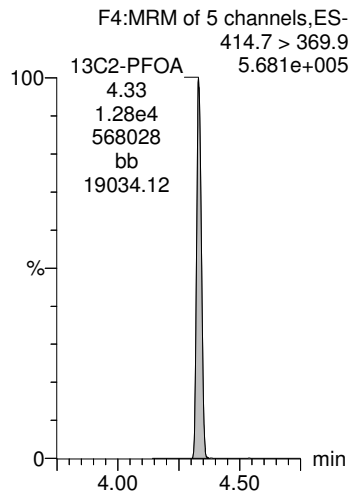
13C2-PFDA



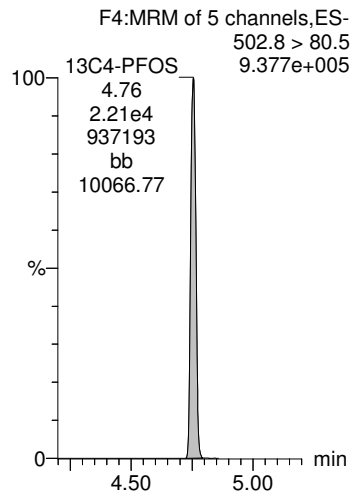
13C4-PFOS



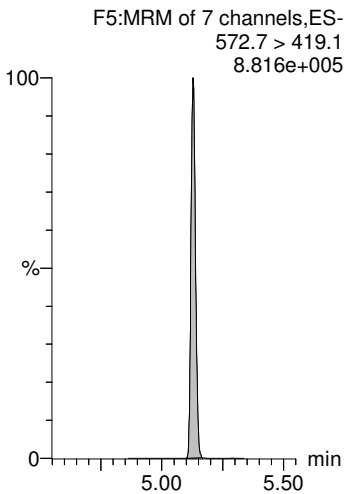
13C2-PFOA



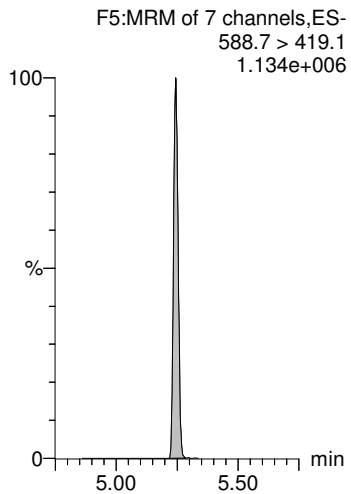
13C4-PFOS



d3-N-MeFOSAA



d5-N-EtFOSAA



CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-29.qld

Last Altered: Tuesday, August 28, 2018 12:32:55 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:33:35 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_29, Date: 27-Aug-2018, Time: 14:59:07, ID: 1802614-02 CH-AT-1FB199-0818 0.25009, Description: CH-AT-1FB199-0818

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5		2.39e4	0.250		3.01				
2	5	PFOA	412.8 > 369.0	2.46e1	1.28e4	0.250		4.33	4.33	0.0191	0.105	
3	7	PFOS	498.8 >80.7		2.39e4	0.250		4.76				
4	15	13C2-PFHxA	314.8 > 269.9	1.00e4	1.28e4	0.250	0.651	3.47	3.40	7.79	47.9	119.7
5	16	13C2-PFDA	514.8 > 470.0	1.29e4	1.28e4	0.250	1.028	4.93	5.01	10.0	39.0	97.4
6	17	d5-N-EtFOSAA	588.7> 419.1	2.55e4	1.96e4	0.250	1.457	5.13	5.25	52.0	143	89.2
7	18	13C2-PFOA	414.7 > 369.9	1.28e4	1.28e4	0.250	1.000	4.45	4.33	10.0	40.0	100.0
8	19	13C4-PFOS	502.8>80.5	2.39e4	2.39e4	0.250	1.000	4.84	4.76	28.7	115	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.96e4	1.96e4	0.250	1.000	5.21	5.13	40.0	160	100.0

CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

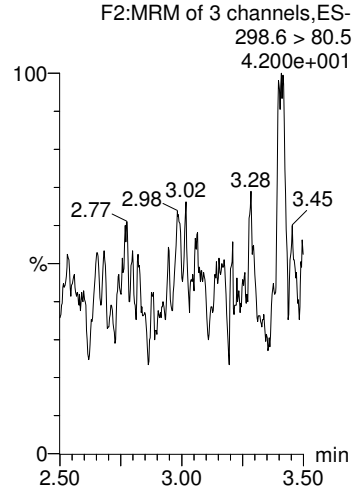
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-29.qld

Last Altered: Tuesday, August 28, 2018 12:32:55 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:33:35 Pacific Daylight Time

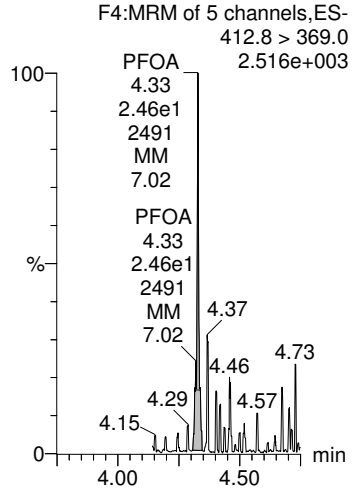
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_29, Date: 27-Aug-2018, Time: 14:59:07, ID: 1802614-02 CH-AT-1FB199-0818 0.25009, Description: CH-AT-1FB199-0818

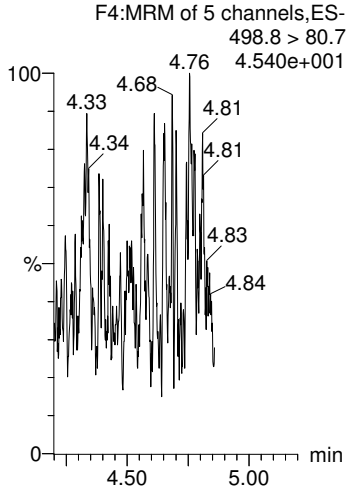
PFBS



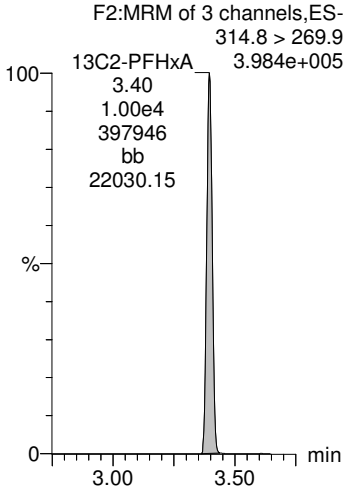
PFOA



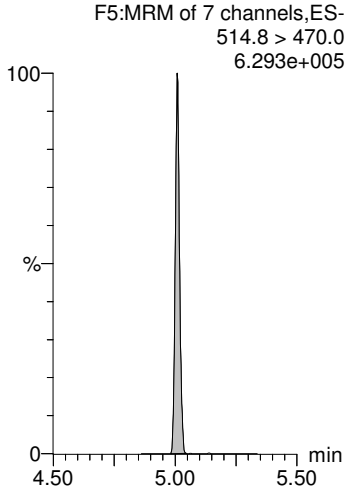
PFOS



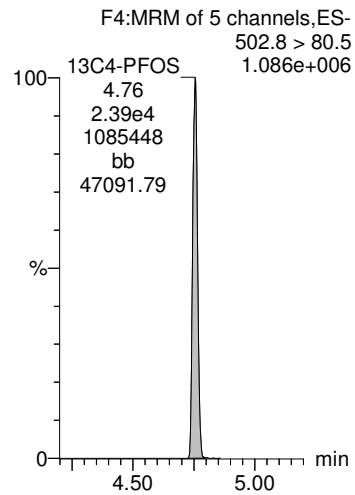
13C2-PFHxA



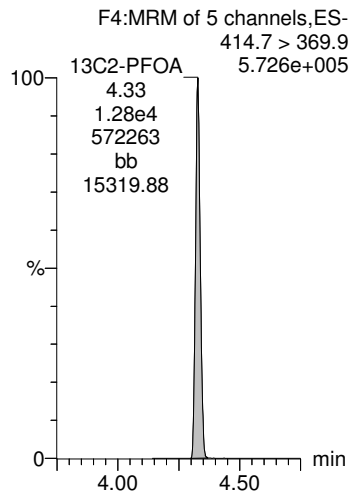
13C2-PFDA



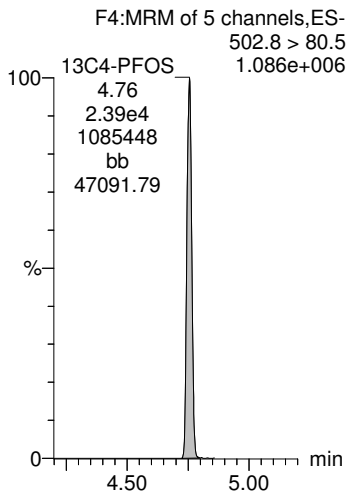
13C4-PFOS



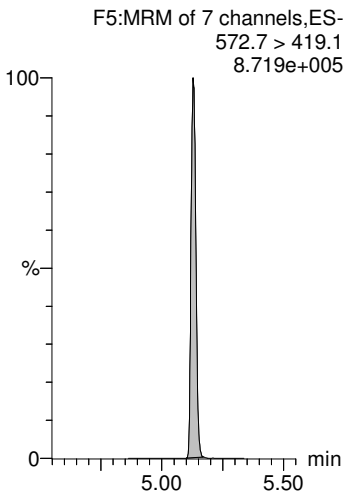
13C2-PFOA



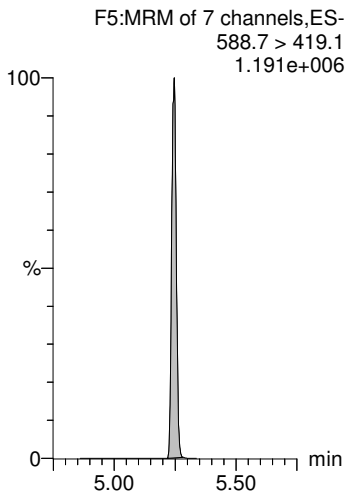
13C4-PFOS



d3-N-MeFOSAA



d5-N-EtFOSAA



CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-30.qld

Last Altered: Tuesday, August 28, 2018 12:36:10 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:37:01 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_30, Date: 27-Aug-2018, Time: 15:12:19, ID: 1802614-03 CH-AT-1RW200-0818 0.24747, Description: CH-AT-1RW200-0818

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5		2.26e4	0.247		3.01				
2	5	PFOA	412.8 > 369.0	3.38e1	1.24e4	0.247		4.33	4.32	0.0272	0.150	
3	7	PFOS	498.8 >80.7		2.26e4	0.247		4.76				
4	15	13C2-PFHxA	314.8 > 269.9	8.85e3	1.24e4	0.247	0.651	3.47	3.40	7.12	44.2	109.3
5	16	13C2-PFDA	514.8 > 470.0	1.19e4	1.24e4	0.247	1.028	4.93	5.01	9.55	37.6	92.9
6	17	d5-N-EtFOSAA	588.7> 419.1	2.34e4	1.88e4	0.247	1.457	5.13	5.25	49.6	138	85.2
7	18	13C2-PFOA	414.7 > 369.9	1.24e4	1.24e4	0.247	1.000	4.45	4.33	10.0	40.4	100.0
8	19	13C4-PFOS	502.8>80.5	2.26e4	2.26e4	0.247	1.000	4.84	4.75	28.7	116	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.88e4	1.88e4	0.247	1.000	5.21	5.13	40.0	162	100.0

CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

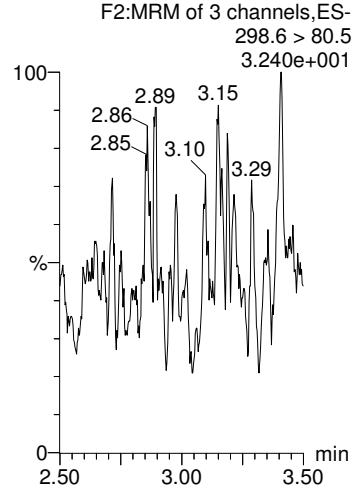
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-30.qld

Last Altered: Tuesday, August 28, 2018 12:36:10 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:37:01 Pacific Daylight Time

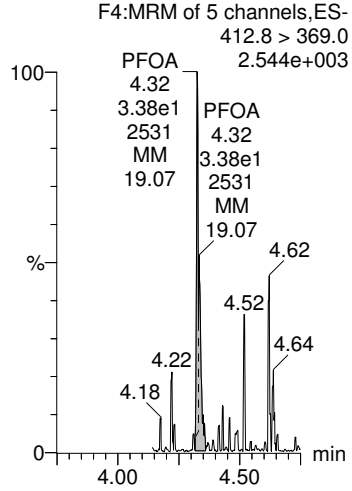
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_30, Date: 27-Aug-2018, Time: 15:12:19, ID: 1802614-03 CH-AT-1RW200-0818 0.24747, Description: CH-AT-1RW200-0818

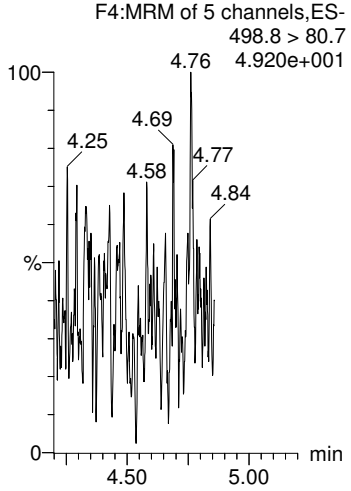
PFBS



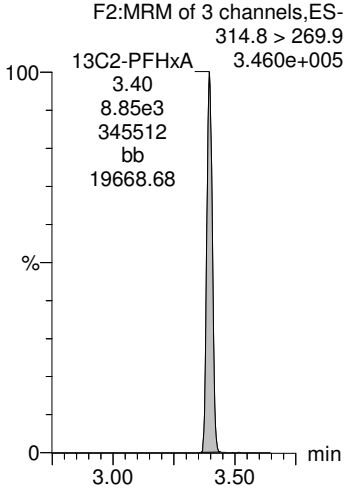
PFOA



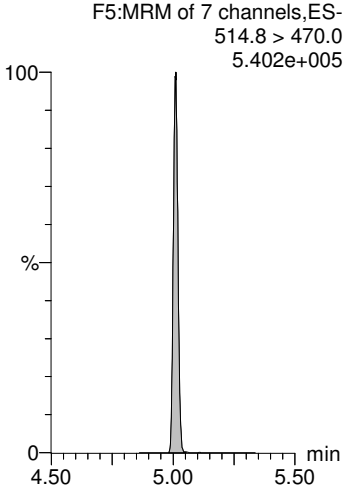
PFOS



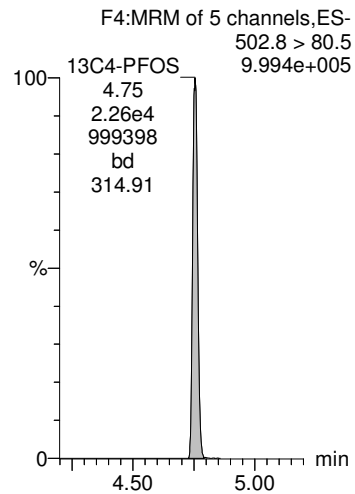
13C2-PFHxA



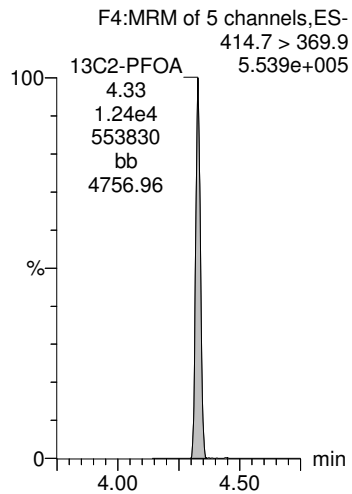
13C2-PFDA



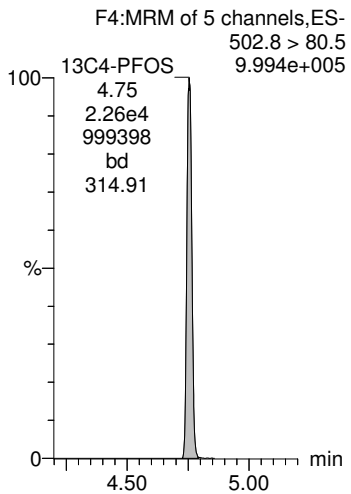
13C4-PFOS



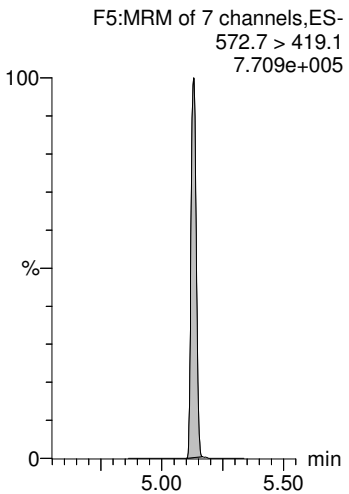
13C2-PFOA



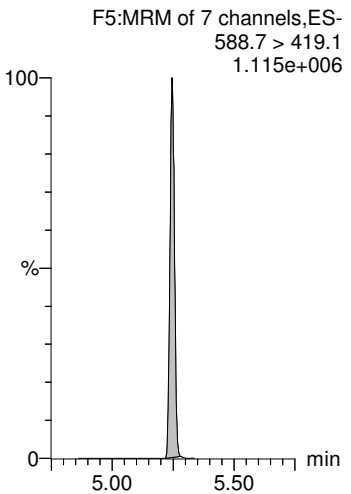
13C4-PFOS



d3-N-MeFOSAA



d5-N-EtFOSAA



CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-31.qld

Last Altered: Tuesday, August 28, 2018 12:38:58 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:45:39 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_31, Date: 27-Aug-2018, Time: 15:25:17, ID: 1802614-04 CH-AT-1FB200-0818 0.2552, Description: CH-AT-1FB200-0818

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	6.47e0	2.29e4	0.255		3.01	3.03	0.00811	0.0494	
2	5	PFOA	412.8 > 369.0	6.41e1	1.31e4	0.255		4.33	4.33	0.0490	0.263	
3	7	PFOS	498.8 >80.7		2.29e4	0.255		4.76				
4	15	13C2-PFHxA	314.8 > 269.9	9.64e3	1.31e4	0.255	0.651	3.47	3.40	7.37	44.4	113.3
5	16	13C2-PFDA	514.8 > 470.0	1.41e4	1.31e4	0.255	1.028	4.94	5.01	10.8	41.0	104.6
6	17	d5-N-EtFOSAA	588.7> 419.1	2.73e4	1.95e4	0.255	1.457	5.13	5.25	56.1	151	96.2
7	18	13C2-PFOA	414.7 > 369.9	1.31e4	1.31e4	0.255	1.000	4.45	4.33	10.0	39.2	100.0
8	19	13C4-PFOS	502.8>80.5	2.29e4	2.29e4	0.255	1.000	4.84	4.76	28.7	112	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.95e4	1.95e4	0.255	1.000	5.21	5.13	40.0	157	100.0

CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

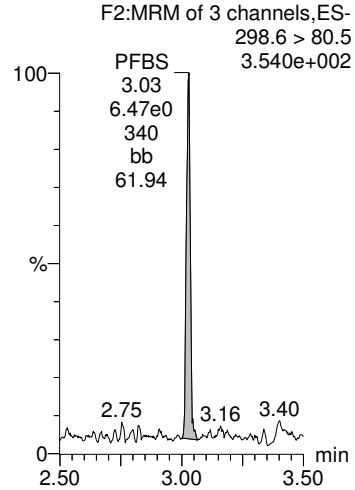
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-31.qld

Last Altered: Tuesday, August 28, 2018 12:38:58 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:45:39 Pacific Daylight Time

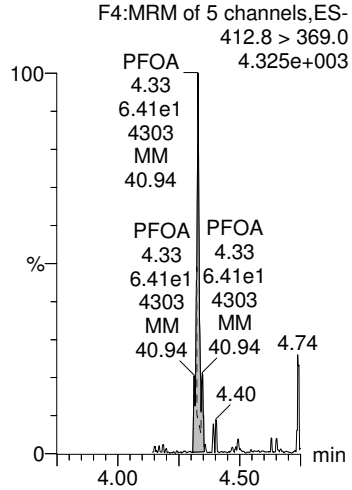
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_31, Date: 27-Aug-2018, Time: 15:25:17, ID: 1802614-04 CH-AT-1FB200-0818 0.2552, Description: CH-AT-1FB200-0818

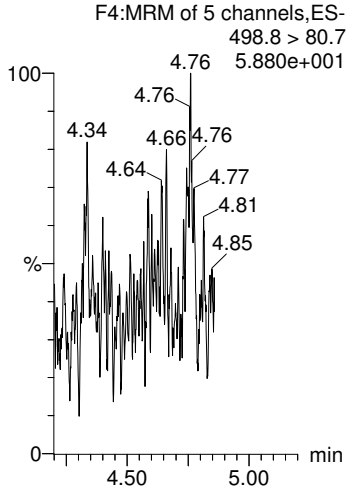
PFBS



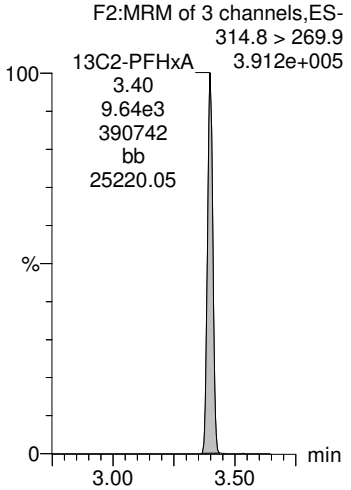
PFOA



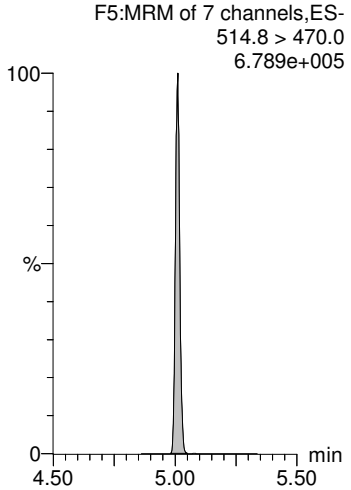
PFOS



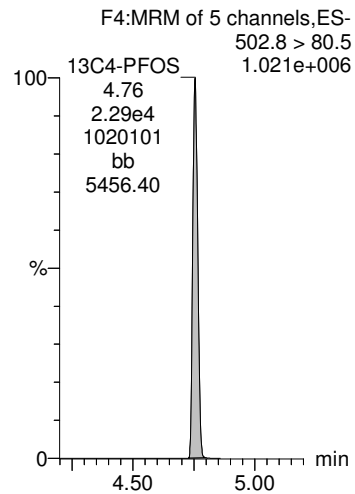
13C2-PFHxA



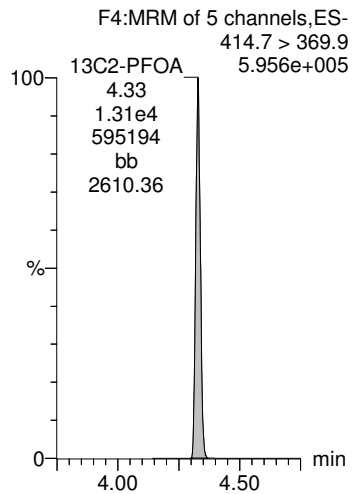
13C2-PFDA



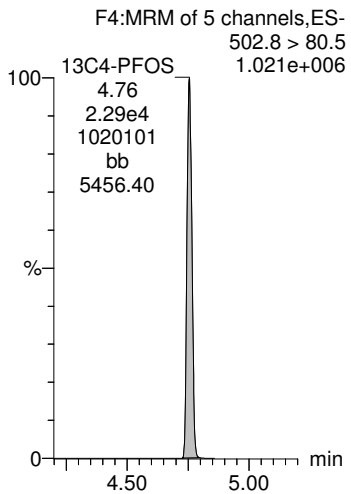
13C4-PFOS



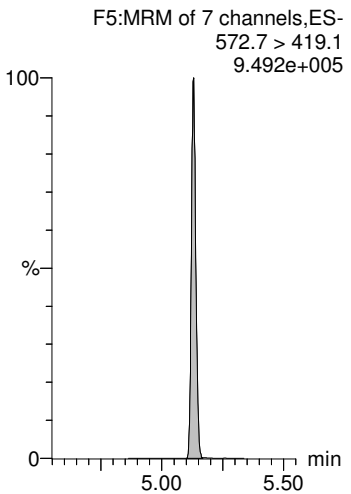
13C2-PFOA



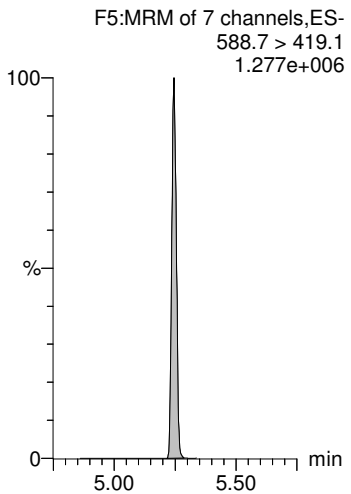
13C4-PFOS



d3-N-MeFOSAA



d5-N-EtFOSAA



CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-32.qld

Last Altered: Tuesday, August 28, 2018 12:41:24 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:42:11 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_32, Date: 27-Aug-2018, Time: 15:38:24, ID: 1802614-05 CH-AT-1RW201-0818 0.24899, Description: CH-AT-1RW201-0818

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	9.60e0	2.25e4	0.249		3.01	3.02	0.0122	0.0763	
2	5	PFOA	412.8 > 369.0	8.13e1	1.23e4	0.249		4.33	4.33	0.0663	0.364	
3	7	PFOS	498.8 >80.7		2.25e4	0.249		4.76				
4	15	13C2-PFHxA	314.8 > 269.9	9.27e3	1.23e4	0.249	0.651	3.47	3.40	7.55	46.6	116.0
5	16	13C2-PFDA	514.8 > 470.0	1.25e4	1.23e4	0.249	1.028	4.93	5.01	10.2	39.8	99.2
6	17	d5-N-EtFOSAA	588.7> 419.1	2.38e4	1.80e4	0.249	1.457	5.13	5.25	53.1	146	91.1
7	18	13C2-PFOA	414.7 > 369.9	1.23e4	1.23e4	0.249	1.000	4.45	4.33	10.0	40.2	100.0
8	19	13C4-PFOS	502.8>80.5	2.25e4	2.25e4	0.249	1.000	4.84	4.75	28.7	115	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	1.80e4	1.80e4	0.249	1.000	5.21	5.13	40.0	161	100.0

CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

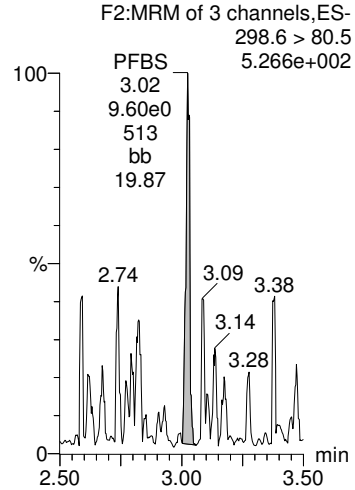
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-32.qld

Last Altered: Tuesday, August 28, 2018 12:41:24 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:42:11 Pacific Daylight Time

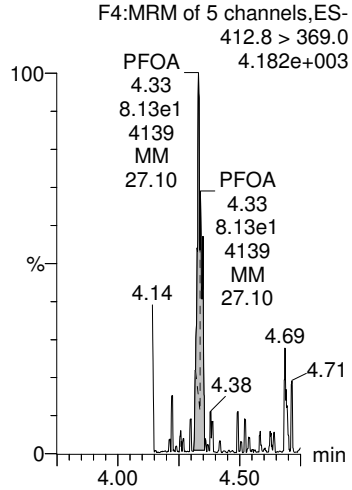
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_32, Date: 27-Aug-2018, Time: 15:38:24, ID: 1802614-05 CH-AT-1RW201-0818 0.24899, Description: CH-AT-1RW201-0818

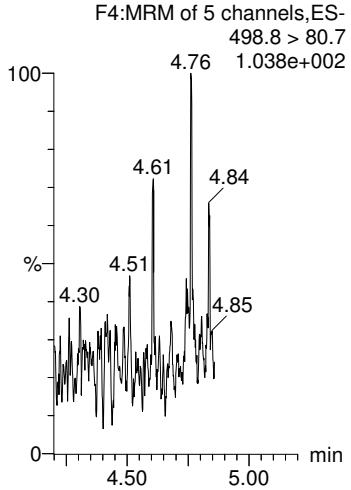
PFBS



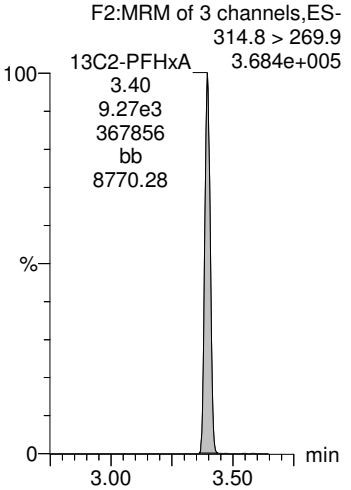
PFOA



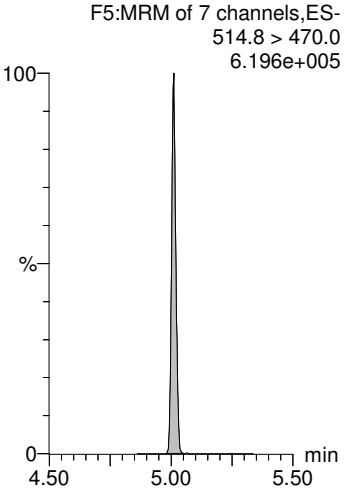
PFOS



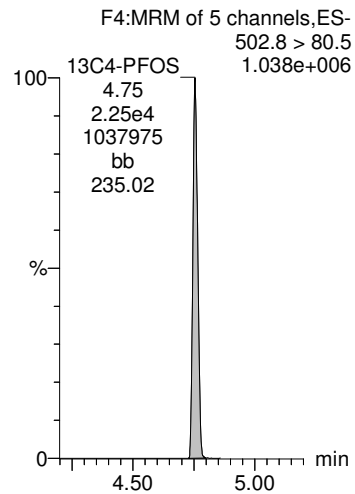
13C2-PFHxA



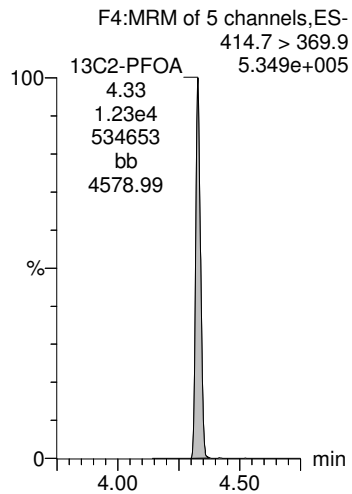
13C2-PFDA



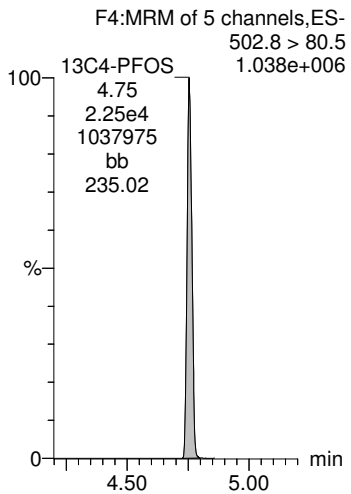
13C4-PFOS



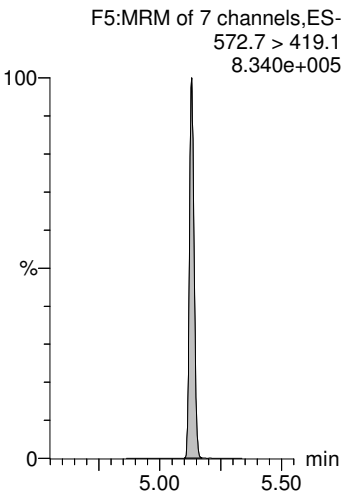
13C2-PFOA



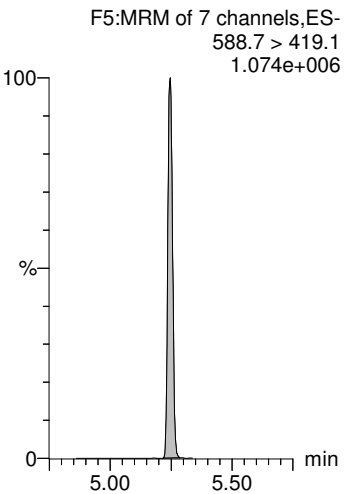
13C4-PFOS



d3-N-MeFOSAA



d5-N-EtFOSAA



CGH 8/28/2018

Vista Analytical Laboratory

MMM 8/28/2018

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-36.qld

Last Altered: Tuesday, August 28, 2018 12:43:42 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:44:17 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_36, Date: 27-Aug-2018, Time: 16:30:39, ID: 1802614-06 CH-AT-1FB201-0818 0.24859, Description: CH-AT-1FB201-0818

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	2.08e0	2.35e4	0.249		3.01	3.03	0.00254	0.0159	
2	5	PFOA	412.8 > 369.0	5.73e1	1.34e4	0.249		4.34	4.33	0.0427	0.235	
3	7	PFOS	498.8 >80.7		2.35e4	0.249		4.76				
4	15	13C2-PFHxA	314.8 > 269.9	9.83e3	1.34e4	0.249	0.651	3.48	3.39	7.32	45.2	112.5
5	16	13C2-PFDA	514.8 > 470.0	1.33e4	1.34e4	0.249	1.028	4.94	4.99	9.92	38.8	96.5
6	17	d5-N-EtFOSAA	588.7> 419.1	2.73e4	2.18e4	0.249	1.457	5.12	5.24	50.0	138	85.9
7	18	13C2-PFOA	414.7 > 369.9	1.34e4	1.34e4	0.249	1.000	4.45	4.34	10.0	40.2	100.0
8	19	13C4-PFOS	502.8>80.5	2.35e4	2.35e4	0.249	1.000	4.84	4.75	28.7	115	100.0
9	20	d3-N-MeFOSAA	572.7 > 419.1	2.18e4	2.18e4	0.249	1.000	5.21	5.12	40.0	161	100.0

CGH 8/28/2018

MMM 8/28/2018

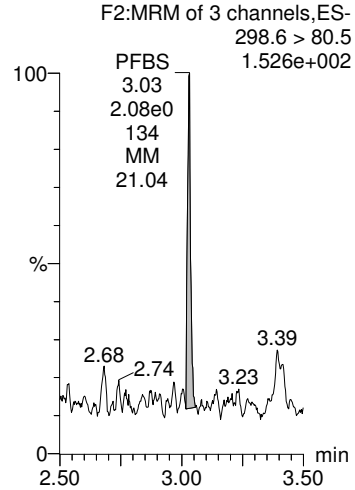
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-36.qld

Last Altered: Tuesday, August 28, 2018 12:43:42 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 12:44:17 Pacific Daylight Time

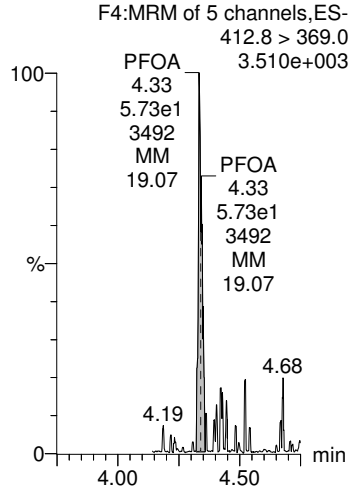
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_36, Date: 27-Aug-2018, Time: 16:30:39, ID: 1802614-06 CH-AT-1FB201-0818 0.24859, Description: CH-AT-1FB201-0818

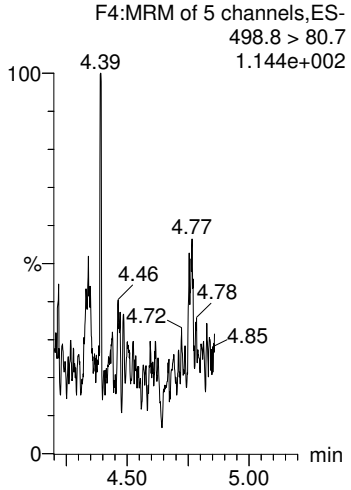
PFBS



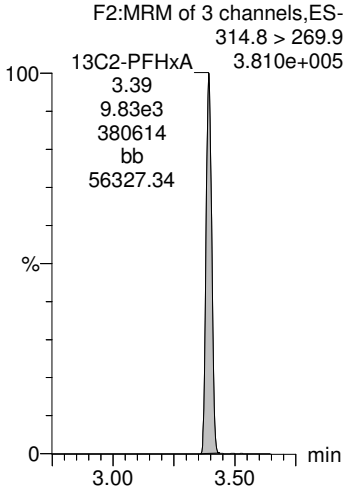
PFOA



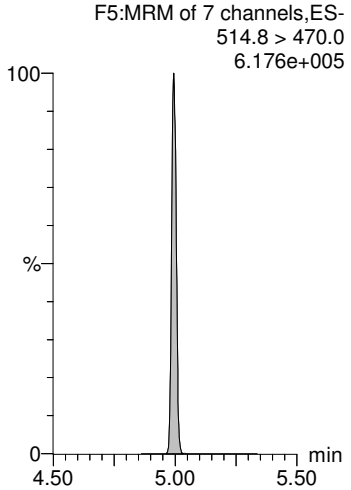
PFOS



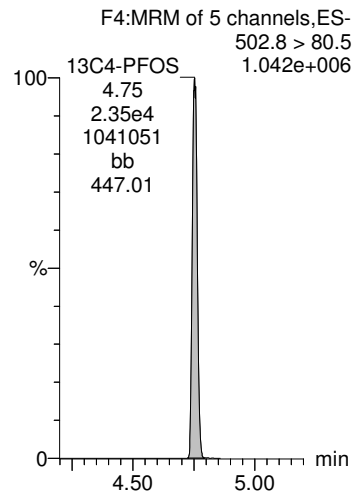
13C2-PFHxA



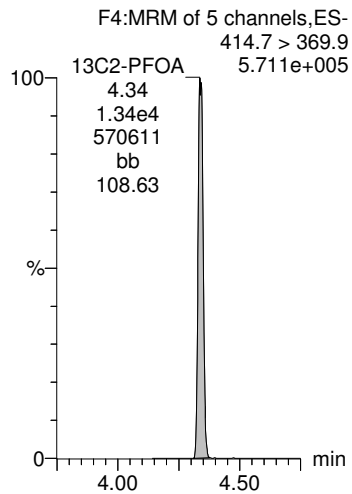
13C2-PFDA



13C4-PFOS



13C2-PFOA



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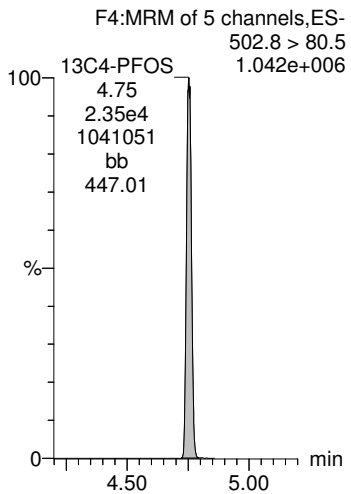
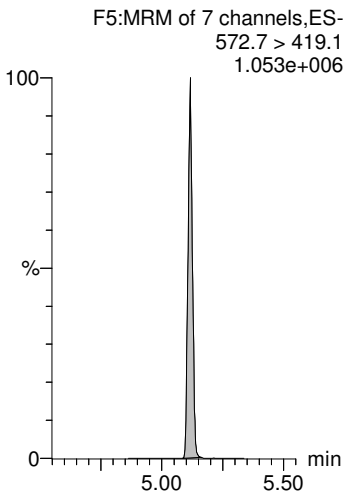
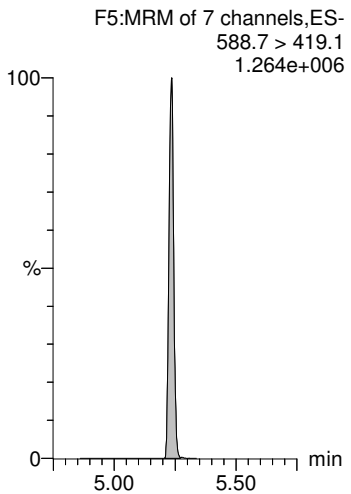


d3-N-MeFOSAA



d5-N-EtFOSAA



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INJECTION INTERNAL STANDARD (IIS) AREAS,

AND

CONTINUTING CALIBRATION VERIFICATIONS CCV)

ICAL

Compound 18: 13C2-PFOA 50-150%

	ID	Name	Type	Std. Conc	RT	Area	ICAL AREA	% AREA
1	IPA	180827G1_	Analyte	10			13711.25	0.00
2	ST180827G1-1 PFC CS-1 537 18H2424	180827G1_	Analyte	10	4.33	13990.33	13711.25	102.04
3	IPA	180827G1_	Analyte	10			13711.25	0.00
4	B8H0168-BLK1 LRB 0.25	180827G1_	Analyte	10	4.33	11715.40	13711.25	85.44
5	B8H0168-BS1 LFB 0.25	180827G1_	Analyte	10	4.33	10566.98	13711.25	77.07
6	1802572-01 WR1808201230CKA 0.23973	180827G1_	Analyte	10	4.33	11011.01	13711.25	80.31
7	1802572-02 WR1808201250CKA 0.25444	180827G1_	Analyte	10	4.33	10886.35	13711.25	79.40
8	B8H0182-BLK1 LRB 0.25	180827G1_	Analyte	10	4.33	13186.76	13711.25	96.17
9	B8H0182-BS1 LFB 0.25	180827G1_	Analyte	10	4.33	11902.36	13711.25	86.81
10	B8H0182-MS1 LFSM 0.24886	180827G1_	Analyte	10	4.33	11672.89	13711.25	85.13
11	B8H0182-MSD1 LFSMD 0.2513	180827G1_	Analyte	10	4.33	12784.03	13711.25	93.24
12	1802610-01 WT1808211030LEM 0.26117	180827G1_	Analyte	10	4.33	12405.09	13711.25	90.47
13	1802610-02 WR1808211035LEM 0.26149	180827G1_	Analyte	10	4.33	13080.89	13711.25	95.40
14	1802610-03 WR1808211135LEM 0.26454	180827G1_	Analyte	10	4.34	12021.78	13711.25	87.68
15	1802610-04 WT1808211250LEM 0.26311	180827G1_	Analyte	10	4.33	13954.40	13711.25	101.77
16	1802610-05 FB1808211250LEM 0.26563	180827G1_	Analyte	10	4.33	13781.33	13711.25	100.51
17	1802610-06 WT1808211345LEM 0.25978	180827G1_	Analyte	10	4.33	13013.18	13711.25	94.91
18	1802610-07 WR1808211410LEM 0.25247	180827G1_	Analyte	10	4.33	12204.07	13711.25	89.01
19	1802610-08 WR1808211430LEM 0.26643	180827G1_	Analyte	10	4.33	12606.62	13711.25	91.94
20	1802610-09 WR1808211440LEM 0.26583	180827G1_	Analyte	10	4.33	12625.39	13711.25	92.08
21	IPA	180827G1_	Analyte	10			13711.25	0.00
22	ST180827G1-2 PFC CS1 537 18H2426	180827G1_	Analyte	10	4.33	12709.17	13711.25	92.69
23	IPA	180827G1_	Analyte	10			13711.25	0.00
24	1802610-10 WR1808211500LEM 0.259	180827G1_	Analyte	10	4.33	13182.22	13711.25	96.14
25	1802610-11 WT1808211520LEM 0.26476	180827G1_	Analyte	10	4.33	14006.72	13711.25	102.15
26	1802610-12 WT1808211520LEM-FD 0.25841	180827G1_	Analyte	10	4.33	11869.54	13711.25	86.57
27	1802610-01 WT1808211030LEM 0.26117	180827G1_	Analyte	10	4.33	12657.54	13711.25	92.31
28	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_	Analyte	10	4.33	11703.84	13711.25	85.36
29	1802614-02 CH-AT-1FB199-0818 0.25009	180827G1_	Analyte	10	4.33	12831.75	13711.25	93.59

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30	1802614-03 CH-AT-1RW200-0818 0.24747	180827G1_ Analyte	10	4.33	12444.55	13711.25	90.76	
31	1802614-04 CH-AT-1FB200-0818 0.2552	180827G1_ Analyte	10	4.33	13076.78	13711.25	95.37	
32	1802614-05 CH-AT-1RW201-0818 0.24899	180827G1_ Analyte	10	4.33	12274.18	13711.25	89.52	
33	IPA	180827G1_ Analyte	10			13711.25	0.00	
34	ST180827G1-3 PFC CS3 537 18H2428	180827G1_ Analyte	10	4.33	11626.85	13711.25	84.80	
35	IPA	180827G1_ Analyte	10			13711.25	0.00	
36	1802614-06 CH-AT-1FB201-0818 0.24859	180827G1_ Analyte	10	4.34	13428.70	13711.25	97.94	
37	1802610-01@10X WT1808211030LEM 0.26117	180827G1_ Analyte	10	4.34	1385.04	13711.25	10.10	DIL
38	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	10	4.34	13289.57	13711.25	96.92	
39	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	10	4.33	12487.99	13711.25	91.08	
40	B8H0020-BS1 LFB 0.25	180827G1_ Analyte	10	4.34	11065.10	13711.25	80.70	
41	1802133-01 GWNT1807301100GSC 0.25038	180827G1_ Analyte	10	4.33	10358.29	13711.25	75.55	
42	1802136-01 GWEF1807301145GSC 0.25742	180827G1_ Analyte	10	4.33	11008.07	13711.25	80.28	
43	1802139-01 GWEF1807301215GSC 0.25232	180827G1_ Analyte	10	4.33	11234.77	13711.25	81.94	
44	B8H0193-BLK1 LRB 0.25	180827G1_ Analyte	10	4.33	12145.05	13711.25	88.58	
45	B8H0193-BS1 LFB 0.25	180827G1_ Analyte	10	4.33	11828.32	13711.25	86.27	
46	B8H0193-BS2 LFB 0.25	180827G1_ Analyte	10	4.33	12933.44	13711.25	94.33	
47	B8H0193-BS3 LFB 0.25	180827G1_ Analyte	10	4.33	12641.96	13711.25	92.20	
48	B8H0193-BS4 LFB 0.25	180827G1_ Analyte	10	4.33	12976.85	13711.25	94.64	
49	B8H0193-BS5 LFB 0.25	180827G1_ Analyte	10	4.33	12654.26	13711.25	92.29	
50	B8H0193-BS6 LFB 0.25	180827G1_ Analyte	10	4.33	11790.39	13711.25	85.99	
51	B8H0193-BS7 LFB 0.25	180827G1_ Analyte	10	4.33	12431.43	13711.25	90.67	
52	B8H0192-BLK1 LRB 0.25	180827G1_ Analyte	10	4.34	13124.70	13711.25	95.72	
53	B8H0192-BS1 LFB 0.25	180827G1_ Analyte	10	4.34	13648.86	13711.25	99.54	
54	B8H0192-BS2 LFB 0.25	180827G1_ Analyte	10	4.33	12791.49	13711.25	93.29	
55	B8H0192-BS3 LFB 0.25	180827G1_ Analyte	10	4.33	14168.11	13711.25	103.33	
56	B8H0192-BS4 LFB 0.25	180827G1_ Analyte	10	4.33	12599.19	13711.25	91.89	
57	B8H0192-BS5 LFB 0.25	180827G1_ Analyte	10	4.33	12803.19	13711.25	93.38	
58	B8H0192-BS6 LFB 0.25	180827G1_ Analyte	10	4.33	11969.38	13711.25	87.30	
59	B8H0192-BS7 LFB 0.25	180827G1_ Analyte	10	4.33	12480.05	13711.25	91.02	
60	B8H0004-BLK1 LRB 0.25	180827G1_ Analyte	10	4.33	11157.22	13711.25	81.37	
61	B8H0004-BS1 LFB 0.25	180827G1_ Analyte	10	4.33	11005.02	13711.25	80.26	
62	B8H0004-MS1 LFSM 0.23784	180827G1_ Analyte	10	4.33	11425.50	13711.25	83.33	
63	B8H0004-MSD1 LFSMD 0.23642	180827G1_ Analyte	10	4.33	11164.81	13711.25	81.43	
64	1802033-01 GWEF1807250915KER 0.24683	180827G1_ Analyte	10	4.33	11955.45	13711.25	87.19	

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65	1802049-01 WR1807250940JTM 0.24344	180827G1_ Analyte	10	4.33	11724.82	13711.25	85.51
66	1802050-01 WR1807251030JTM 0.24366	180827G1_ Analyte	10	4.33	11338.43	13711.25	82.69
67	IPA	180827G1_ Analyte	10			13711.25	0.00
68	ST180827G1-4 PFC CS-1 537 18H2424	180827G1_ Analyte	10	4.33	13225.02	13711.25	96.45
69	IPA	180827G1_ Analyte	10			13711.25	0.00
70	1802051-01 WR1807251120JTM 0.24916	180827G1_ Analyte	10	4.33	11387.62	13711.25	83.05
71	1802052-01 WR1807251145JTM 0.24483	180827G1_ Analyte	10	4.33	11851.69	13711.25	86.44
72	1802053-01 WR1807251210JTM 0.23945	180827G1_ Analyte	10	4.33	11444.25	13711.25	83.47
73	1802054-01 WR1807251300JTM 0.24522	180827G1_ Analyte	10	4.33	11468.29	13711.25	83.64
74	1802081-01 GWIN1807260910KER 0.23574	180827G1_ Analyte	10	4.32	11565.62	13711.25	84.35
75	1802082-01 GWEF1807261020KER 0.24902	180827G1_ Analyte	10	4.33	10907.25	13711.25	79.55
76	1802083-01 GWNT1807261130KER 0.23846	180827G1_ Analyte	10	4.33	11688.44	13711.25	85.25
77	1802084-02 SWEF1807261415KER 0.23755	180827G1_ Analyte	10	4.33	11314.46	13711.25	82.52
78	1802085-01 SWEF1807260900GSC 0.2441	180827G1_ Analyte	10	4.33	11370.69	13711.25	82.93
79	1802103-01 GWEF1807270915KER 0.24279	180827G1_ Analyte	10	4.33	12049.45	13711.25	87.88
80	IPA	180827G1_ Analyte	10			13711.25	0.00
81	ST180827G1-5 PFC CS1 537 18H2426	180827G1_ Analyte	10	4.33	13599.31	13711.25	99.18
82	IPA	180827G1_ Analyte	10			13711.25	0.00
83	1802103-02 GWEF1807270950KER 0.24181	180827G1_ Analyte	10	4.33	11527.22	13711.25	84.07
84	1802105-01 GWNT1807271045KER 0.23641	180827G1_ Analyte	10	4.33	12105.46	13711.25	88.29
85	1802105-02 GWNT1807271100KER 0.23741	180827G1_ Analyte	10	4.33	10798.81	13711.25	78.76
86	1802105-03 GWNT1807271120KER-FD 0.23969	180827G1_ Analyte	10	4.33	11925.42	13711.25	86.98
87	1802105-04 FB1807271130KER 0.2444	180827G1_ Analyte	10	4.33	11768.42	13711.25	85.83
88	1802106-01 GWNT1807271230KER 0.23703	180827G1_ Analyte	10	4.33	11116.74	13711.25	81.08
89	MIKE COHEN QC1	180827G1_ Analyte	10	4.33	12854.55	13711.25	93.75
90	MIKE COHEN QC2	180827G1_ Analyte	10	4.33	12889.44	13711.25	94.01
91	IPA	180827G1_ Analyte	10			13711.25	0.00
92	ST180827G1-6 PFC CS3 537 18H2428	180827G1_ Analyte	10	4.32	11344.87	13711.25	82.74
93	IPA	180827G1_ Analyte	10			13711.25	0.00

Compound 19: 13C4-PFOS

	ID	Name	Type	Std. Conc	RT	Area	ICAL AREA	% AREA
1	IPA	180827G1_	Analyte	28.7			23097.17	0.00

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2	ST180827G1-1 PFC CS-1 537 18H2424	180827G1_ Analyte	28.7	4.75	24564.09	23097.17	106.35
3	IPA	180827G1_ Analyte	28.7			23097.17	0.00
4	B8H0168-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	20741.34	23097.17	89.80
5	B8H0168-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	19307.44	23097.17	83.59
6	1802572-01 WR1808201230CKA 0.23973	180827G1_ Analyte	28.7	4.76	20669.34	23097.17	89.49
7	1802572-02 WR1808201250CKA 0.25444	180827G1_ Analyte	28.7	4.76	21312.39	23097.17	92.27
8	B8H0182-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.76	24955.69	23097.17	108.05
9	B8H0182-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.76	21711.76	23097.17	94.00
10	B8H0182-MS1 LFSM 0.24886	180827G1_ Analyte	28.7	4.76	21837.49	23097.17	94.55
11	B8H0182-MSD1 LFSMD 0.2513	180827G1_ Analyte	28.7	4.76	22108.45	23097.17	95.72
12	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	28.7	4.75	14605.50	23097.17	63.24
13	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	28.7	4.76	24442.82	23097.17	105.83
14	1802610-03 WR1808211135LEM 0.26454	180827G1_ Analyte	28.7	4.75	23221.80	23097.17	100.54
15	1802610-04 WT1808211250LEM 0.26311	180827G1_ Analyte	28.7	4.75	24403.43	23097.17	105.66
16	1802610-05 FB1808211250LEM 0.26563	180827G1_ Analyte	28.7	4.75	24160.54	23097.17	104.60
17	1802610-06 WT1808211345LEM 0.25978	180827G1_ Analyte	28.7	4.75	23067.46	23097.17	99.87
18	1802610-07 WR1808211410LEM 0.25247	180827G1_ Analyte	28.7	4.75	22257.61	23097.17	96.37
19	1802610-08 WR1808211430LEM 0.26643	180827G1_ Analyte	28.7	4.76	24313.10	23097.17	105.26
20	1802610-09 WR1808211440LEM 0.26583	180827G1_ Analyte	28.7	4.76	22319.87	23097.17	96.63
21	IPA	180827G1_ Analyte	28.7			23097.17	0.00
22	ST180827G1-2 PFC CS1 537 18H2426	180827G1_ Analyte	28.7	4.75	22676.93	23097.17	98.18
23	IPA	180827G1_ Analyte	28.7			23097.17	0.00
24	1802610-10 WR1808211500LEM 0.259	180827G1_ Analyte	28.7	4.76	23855.56	23097.17	103.28
25	1802610-11 WT1808211520LEM 0.26476	180827G1_ Analyte	28.7	4.76	24523.21	23097.17	106.17
26	1802610-12 WT1808211520LEM-FD 0.25841	180827G1_ Analyte	28.7	4.76	22331.21	23097.17	96.68
27	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	28.7	4.76	14698.48	23097.17	63.64
28	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	28.7	4.76	21869.40	23097.17	94.68
29	1802614-02 CH-AT-1FB199-0818 0.25009	180827G1_ Analyte	28.7	4.76	23885.17	23097.17	103.41
30	1802614-03 CH-AT-1RW200-0818 0.24747	180827G1_ Analyte	28.7	4.75	22624.42	23097.17	97.95
31	1802614-04 CH-AT-1FB200-0818 0.2552	180827G1_ Analyte	28.7	4.76	22897.78	23097.17	99.14
32	1802614-05 CH-AT-1RW201-0818 0.24899	180827G1_ Analyte	28.7	4.75	22538.28	23097.17	97.58
33	IPA	180827G1_ Analyte	28.7			23097.17	0.00
34	ST180827G1-3 PFC CS3 537 18H2428	180827G1_ Analyte	28.7	4.75	21096.37	23097.17	91.34
35	IPA	180827G1_ Analyte	28.7			23097.17	0.00
36	1802614-06 CH-AT-1FB201-0818 0.24859	180827G1_ Analyte	28.7	4.75	23542.57	23097.17	101.93

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37	1802610-01@10X WT1808211030LEM 0.26117	180827G1_ Analyte	28.7	4.75	2453.87	23097.17	10.62	DIL
38	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	28.7	4.75	22986.22	23097.17	99.52	
39	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	28.7	4.76	22410.97	23097.17	97.03	
40	B8H0020-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.76	20060.60	23097.17	86.85	
41	1802133-01 GWNT1807301100GSC 0.25038	180827G1_ Analyte	28.7	4.75	18948.03	23097.17	82.04	
42	1802136-01 GWEF1807301145GSC 0.25742	180827G1_ Analyte	28.7	4.75	20278.52	23097.17	87.80	
43	1802139-01 GWEF1807301215GSC 0.25232	180827G1_ Analyte	28.7	4.75	20339.49	23097.17	88.06	
44	B8H0193-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	20924.83	23097.17	90.59	
45	B8H0193-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	23141.62	23097.17	100.19	
46	B8H0193-BS2 LFB 0.25	180827G1_ Analyte	28.7	4.75	21490.21	23097.17	93.04	
47	B8H0193-BS3 LFB 0.25	180827G1_ Analyte	28.7	4.75	23535.23	23097.17	101.90	
48	B8H0193-BS4 LFB 0.25	180827G1_ Analyte	28.7	4.75	23400.78	23097.17	101.31	
49	B8H0193-BS5 LFB 0.25	180827G1_ Analyte	28.7	4.75	21966.18	23097.17	95.10	
50	B8H0193-BS6 LFB 0.25	180827G1_ Analyte	28.7	4.75	21509.08	23097.17	93.12	
51	B8H0193-BS7 LFB 0.25	180827G1_ Analyte	28.7	4.75	21888.15	23097.17	94.77	
52	B8H0192-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	22019.36	23097.17	95.33	
53	B8H0192-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	22489.49	23097.17	97.37	
54	B8H0192-BS2 LFB 0.25	180827G1_ Analyte	28.7	4.75	23032.11	23097.17	99.72	
55	B8H0192-BS3 LFB 0.25	180827G1_ Analyte	28.7	4.75	24581.45	23097.17	106.43	
56	B8H0192-BS4 LFB 0.25	180827G1_ Analyte	28.7	4.75	23204.29	23097.17	100.46	
57	B8H0192-BS5 LFB 0.25	180827G1_ Analyte	28.7	4.75	21102.67	23097.17	91.36	
58	B8H0192-BS6 LFB 0.25	180827G1_ Analyte	28.7	4.76	21401.95	23097.17	92.66	
59	B8H0192-BS7 LFB 0.25	180827G1_ Analyte	28.7	4.75	23050.36	23097.17	99.80	
60	B8H0004-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	21602.71	23097.17	93.53	
61	B8H0004-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	19964.71	23097.17	86.44	
62	B8H0004-MS1 LFSM 0.23784	180827G1_ Analyte	28.7	4.75	19241.49	23097.17	83.31	
63	B8H0004-MSD1 LFSMD 0.23642	180827G1_ Analyte	28.7	4.75	19512.61	23097.17	84.48	
64	1802033-01 GWEF1807250915KER 0.24683	180827G1_ Analyte	28.7	4.75	20613.93	23097.17	89.25	
65	1802049-01 WR1807250940JTM 0.24344	180827G1_ Analyte	28.7	4.76	20529.00	23097.17	88.88	
66	1802050-01 WR1807251030JTM 0.24366	180827G1_ Analyte	28.7	4.76	21521.53	23097.17	93.18	
67	IPA	180827G1_ Analyte	28.7			23097.17	0.00	
68	ST180827G1-4 PFC CS-1 537 18H2424	180827G1_ Analyte	28.7	4.75	23122.19	23097.17	100.11	
69	IPA	180827G1_ Analyte	28.7			23097.17	0.00	
70	1802051-01 WR1807251120JTM 0.24916	180827G1_ Analyte	28.7	4.75	20254.09	23097.17	87.69	
71	1802052-01 WR1807251145JTM 0.24483	180827G1_ Analyte	28.7	4.76	20794.19	23097.17	90.03	

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72	1802053-01 WR1807251210JTM 0.23945	180827G1_	Analyte	28.7	4.75	21284.25	23097.17	92.15
73	1802054-01 WR1807251300JTM 0.24522	180827G1_	Analyte	28.7	4.75	19922.73	23097.17	86.26
74	1802081-01 GWIN1807260910KER 0.23574	180827G1_	Analyte	28.7	4.75	21530.22	23097.17	93.22
75	1802082-01 GWEF1807261020KER 0.24902	180827G1_	Analyte	28.7	4.75	21544.10	23097.17	93.28
76	1802083-01 GWNT1807261130KER 0.23846	180827G1_	Analyte	28.7	4.75	19595.76	23097.17	84.84
77	1802084-02 SWEF1807261415KER 0.23755	180827G1_	Analyte	28.7	4.75	19746.15	23097.17	85.49
78	1802085-01 SWEF1807260900GSC 0.2441	180827G1_	Analyte	28.7	4.75	21390.01	23097.17	92.61
79	1802103-01 GWEF1807270915KER 0.24279	180827G1_	Analyte	28.7	4.75	20395.62	23097.17	88.30
80	IPA	180827G1_	Analyte	28.7			23097.17	0.00
81	ST180827G1-5 PFC CS1 537 18H2426	180827G1_	Analyte	28.7	4.75	22836.47	23097.17	98.87
82	IPA	180827G1_	Analyte	28.7			23097.17	0.00
83	1802103-02 GWEF1807270950KER 0.24181	180827G1_	Analyte	28.7	4.75	20751.89	23097.17	89.85
84	1802105-01 GWNT1807271045KER 0.23641	180827G1_	Analyte	28.7	4.76	20760.08	23097.17	89.88
85	1802105-02 GWNT1807271100KER 0.23741	180827G1_	Analyte	28.7	4.75	19191.45	23097.17	83.09
86	1802105-03 GWNT1807271120KER-FD 0.23969	180827G1_	Analyte	28.7	4.76	20978.54	23097.17	90.83
87	1802105-04 FB1807271130KER 0.2444	180827G1_	Analyte	28.7	4.75	20978.97	23097.17	90.83
88	1802106-01 GWNT1807271230KER 0.23703	180827G1_	Analyte	28.7	4.75	19025.22	23097.17	82.37
89	MIKE COHEN QC1	180827G1_	Analyte	28.7	4.75	21239.33	23097.17	91.96
90	MIKE COHEN QC2	180827G1_	Analyte	28.7	4.75	23113.96	23097.17	100.07
91	IPA	180827G1_	Analyte	28.7			23097.17	0.00
92	ST180827G1-6 PFC CS3 537 18H2428	180827G1_	Analyte	28.7	4.75	20529.02	23097.17	88.88
93	IPA	180827G1_	Analyte	28.7			23097.17	0.00

Compound 20: d3-N-MeFOSAA

	ID	Name	Type	Std. Conc	RT	Area	ICAL AREA	% AREA
1	IPA	180827G1_	Analyte	40			19838.10	0.00
2	ST180827G1-1 PFC CS-1 537 18H2424	180827G1_	Analyte	40	5.13	17587.06	19838.10	88.65
3	IPA	180827G1_	Analyte	40			19838.10	0.00
4	B8H0168-BLK1 LRB 0.25	180827G1_	Analyte	40	5.13	15508.61	19838.10	78.18
5	B8H0168-BS1 LFB 0.25	180827G1_	Analyte	40	5.13	14801.52	19838.10	74.61
6	1802572-01 WR1808201230CKA 0.23973	180827G1_	Analyte	40	5.13	17133.44	19838.10	86.37
7	1802572-02 WR1808201250CKA 0.25444	180827G1_	Analyte	40	5.13	16367.14	19838.10	82.50

8	B8H0182-BLK1 LRB 0.25	180827G1_ Analyte	40	5.13	20489.51	19838.10	103.28	
9	B8H0182-BS1 LFB 0.25	180827G1_ Analyte	40	5.13	16962.42	19838.10	85.50	
10	B8H0182-MS1 LFSM 0.24886	180827G1_ Analyte	40	5.13	17926.90	19838.10	90.37	
11	B8H0182-MSD1 LFSMD 0.2513	180827G1_ Analyte	40	5.13	18703.91	19838.10	94.28	
12	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	40	5.13	18388.04	19838.10	92.69	
13	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	40	5.14	17104.18	19838.10	86.22	
14	1802610-03 WR1808211135LEM 0.26454	180827G1_ Analyte	40	5.13	19340.71	19838.10	97.49	
15	1802610-04 WT1808211250LEM 0.26311	180827G1_ Analyte	40	5.13	19958.82	19838.10	100.61	
16	1802610-05 FB1808211250LEM 0.26563	180827G1_ Analyte	40	5.13	18804.59	19838.10	94.79	
17	1802610-06 WT1808211345LEM 0.25978	180827G1_ Analyte	40	5.13	18345.38	19838.10	92.48	
18	1802610-07 WR1808211410LEM 0.25247	180827G1_ Analyte	40	5.13	17148.66	19838.10	86.44	
19	1802610-08 WR1808211430LEM 0.26643	180827G1_ Analyte	40	5.13	18649.64	19838.10	94.01	
20	1802610-09 WR1808211440LEM 0.26583	180827G1_ Analyte	40	5.14	18299.05	19838.10	92.24	
21	IPA	180827G1_ Analyte	40			19838.10	0.00	
22	ST180827G1-2 PFC CS1 537 18H2426	180827G1_ Analyte	40	5.13	18171.05	19838.10	91.60	
23	IPA	180827G1_ Analyte	40			19838.10	0.00	
24	1802610-10 WR1808211500LEM 0.259	180827G1_ Analyte	40	5.13	19436.59	19838.10	97.98	
25	1802610-11 WT1808211520LEM 0.26476	180827G1_ Analyte	40	5.13	20448.84	19838.10	103.08	
26	1802610-12 WT1808211520LEM-FD 0.25841	180827G1_ Analyte	40	5.13	18661.48	19838.10	94.07	
27	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	40	5.13	17895.25	19838.10	90.21	
28	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	40	5.13	16450.65	19838.10	82.92	
29	1802614-02 CH-AT-1FB199-0818 0.25009	180827G1_ Analyte	40	5.13	19635.40	19838.10	98.98	
30	1802614-03 CH-AT-1RW200-0818 0.24747	180827G1_ Analyte	40	5.13	18847.20	19838.10	95.01	
31	1802614-04 CH-AT-1FB200-0818 0.2552	180827G1_ Analyte	40	5.13	19509.27	19838.10	98.34	
32	1802614-05 CH-AT-1RW201-0818 0.24899	180827G1_ Analyte	40	5.13	17961.81	19838.10	90.54	
33	IPA	180827G1_ Analyte	40			19838.10	0.00	
34	ST180827G1-3 PFC CS3 537 18H2428	180827G1_ Analyte	40	5.12	19648.99	19838.10	99.05	
35	IPA	180827G1_ Analyte	40			19838.10	0.00	
36	1802614-06 CH-AT-1FB201-0818 0.24859	180827G1_ Analyte	40	5.12	21804.50	19838.10	109.91	
37	1802610-01@10X WT1808211030LEM 0.26117	180827G1_ Analyte	40	5.12	1896.83	19838.10	9.56	DIL
38	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	40	5.12	19457.30	19838.10	98.08	
39	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	40	5.12	18001.88	19838.10	90.74	
40	B8H0020-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	17191.19	19838.10	86.66	
41	1802133-01 GWNT1807301100GSC 0.25038	180827G1_ Analyte	40	5.13	13943.22	19838.10	70.29	
42	1802136-01 GWEF1807301145GSC 0.25742	180827G1_ Analyte	40	5.13	16548.07	19838.10	83.42	

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43	1802139-01 GWEF1807301215GSC 0.25232	180827G1_ Analyte	40	5.13	16492.56	19838.10	83.14
44	B8H0193-BLK1 LRB 0.25	180827G1_ Analyte	40	5.12	18029.11	19838.10	90.88
45	B8H0193-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	17553.17	19838.10	88.48
46	B8H0193-BS2 LFB 0.25	180827G1_ Analyte	40	5.12	18997.46	19838.10	95.76
47	B8H0193-BS3 LFB 0.25	180827G1_ Analyte	40	5.12	20127.82	19838.10	101.46
48	B8H0193-BS4 LFB 0.25	180827G1_ Analyte	40	5.12	18879.74	19838.10	95.17
49	B8H0193-BS5 LFB 0.25	180827G1_ Analyte	40	5.12	18887.39	19838.10	95.21
50	B8H0193-BS6 LFB 0.25	180827G1_ Analyte	40	5.12	17047.38	19838.10	85.93
51	B8H0193-BS7 LFB 0.25	180827G1_ Analyte	40	5.12	18949.17	19838.10	95.52
52	B8H0192-BLK1 LRB 0.25	180827G1_ Analyte	40	5.12	17358.98	19838.10	87.50
53	B8H0192-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	18623.80	19838.10	93.88
54	B8H0192-BS2 LFB 0.25	180827G1_ Analyte	40	5.12	19178.89	19838.10	96.68
55	B8H0192-BS3 LFB 0.25	180827G1_ Analyte	40	5.12	19722.44	19838.10	99.42
56	B8H0192-BS4 LFB 0.25	180827G1_ Analyte	40	5.12	17610.27	19838.10	88.77
57	B8H0192-BS5 LFB 0.25	180827G1_ Analyte	40	5.12	20353.95	19838.10	102.60
58	B8H0192-BS6 LFB 0.25	180827G1_ Analyte	40	5.11	19510.16	19838.10	98.35
59	B8H0192-BS7 LFB 0.25	180827G1_ Analyte	40	5.12	17782.48	19838.10	89.64
60	B8H0004-BLK1 LRB 0.25	180827G1_ Analyte	40	5.12	17503.01	19838.10	88.23
61	B8H0004-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	17175.94	19838.10	86.58
62	B8H0004-MS1 LFSM 0.23784	180827G1_ Analyte	40	5.12	16039.38	19838.10	80.85
63	B8H0004-MSD1 LFSMD 0.23642	180827G1_ Analyte	40	5.12	15835.18	19838.10	79.82
64	1802033-01 GWEF1807250915KER 0.24683	180827G1_ Analyte	40	5.12	18206.69	19838.10	91.78
65	1802049-01 WR1807250940JTM 0.24344	180827G1_ Analyte	40	5.12	16383.75	19838.10	82.59
66	1802050-01 WR1807251030JTM 0.24366	180827G1_ Analyte	40	5.12	17311.81	19838.10	87.27
67	IPA	180827G1_ Analyte	40			19838.10	0.00
68	ST180827G1-4 PFC CS-1 537 18H2424	180827G1_ Analyte	40	5.12	18261.41	19838.10	92.05
69	IPA	180827G1_ Analyte	40			19838.10	0.00
70	1802051-01 WR1807251120JTM 0.24916	180827G1_ Analyte	40	5.12	16584.16	19838.10	83.60
71	1802052-01 WR1807251145JTM 0.24483	180827G1_ Analyte	40	5.12	18028.61	19838.10	90.88
72	1802053-01 WR1807251210JTM 0.23945	180827G1_ Analyte	40	5.12	17311.97	19838.10	87.27
73	1802054-01 WR1807251300JTM 0.24522	180827G1_ Analyte	40	5.11	16712.01	19838.10	84.24
74	1802081-01 GWIN1807260910KER 0.23574	180827G1_ Analyte	40	5.12	16638.26	19838.10	83.87
75	1802082-01 GWEF1807261020KER 0.24902	180827G1_ Analyte	40	5.12	16722.02	19838.10	84.29
76	1802083-01 GWNT1807261130KER 0.23846	180827G1_ Analyte	40	5.12	16271.02	19838.10	82.02
77	1802084-02 SWEF1807261415KER 0.23755	180827G1_ Analyte	40	5.12	15990.89	19838.10	80.61

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78	1802085-01 SWEF1807260900GSC 0.2441	180827G1_	Analyte	40	5.12	16677.46	19838.10	84.07
79	1802103-01 GWEF1807270915KER 0.24279	180827G1_	Analyte	40	5.12	16119.84	19838.10	81.26
80	IPA	180827G1_	Analyte	40			19838.10	0.00
81	ST180827G1-5 PFC CS1 537 18H2426	180827G1_	Analyte	40	5.12	18891.63	19838.10	95.23
82	IPA	180827G1_	Analyte	40			19838.10	0.00
83	1802103-02 GWEF1807270950KER 0.24181	180827G1_	Analyte	40	5.12	16993.54	19838.10	85.66
84	1802105-01 GWNT1807271045KER 0.23641	180827G1_	Analyte	40	5.11	16599.76	19838.10	83.68
85	1802105-02 GWNT1807271100KER 0.23741	180827G1_	Analyte	40	5.11	15519.23	19838.10	78.23
86	1802105-03 GWNT1807271120KER-FD 0.23969	180827G1_	Analyte	40	5.12	17034.25	19838.10	85.87
87	1802105-04 FB1807271130KER 0.2444	180827G1_	Analyte	40	5.11	16587.84	19838.10	83.62
88	1802106-01 GWNT1807271230KER 0.23703	180827G1_	Analyte	40	5.11	15715.54	19838.10	79.22
89	MIKE COHEN QC1	180827G1_	Analyte	40	5.12	16991.82	19838.10	85.65
90	MIKE COHEN QC2	180827G1_	Analyte	40	5.11	19326.89	19838.10	97.42
91	IPA	180827G1_	Analyte	40			19838.10	0.00
92	ST180827G1-6 PFC CS3 537 18H2428	180827G1_	Analyte	40	5.11	16678.62	19838.10	84.07
93	IPA	180827G1_	Analyte	40			19838.10	0.00

CCAL

Compound 18: 13C2-PFOA 70-140%

	ID	Name	Type	Std. Conc	RT	Area	CCAL AREA	% AREA
1	IPA	180827G1_	Analyte	10			13990.33	0.00
2	**ST180827G1-1 PFC CS-1 537 18H2424**	180827G1_	Analyte	10	4.33	13990.33	13990.33	100.00
3	IPA	180827G1_	Analyte	10			13990.33	0.00
4	B8H0168-BLK1 LRB 0.25	180827G1_	Analyte	10	4.33	11715.40	13990.33	83.74
5	B8H0168-BS1 LFB 0.25	180827G1_	Analyte	10	4.33	10566.98	13990.33	75.53
6	1802572-01 WR1808201230CKA 0.23973	180827G1_	Analyte	10	4.33	11011.01	13990.33	78.70
7	1802572-02 WR1808201250CKA 0.25444	180827G1_	Analyte	10	4.33	10886.35	13990.33	77.81
8	B8H0182-BLK1 LRB 0.25	180827G1_	Analyte	10	4.33	13186.76	13990.33	94.26
9	B8H0182-BS1 LFB 0.25	180827G1_	Analyte	10	4.33	11902.36	13990.33	85.08
10	B8H0182-MS1 LFSM 0.24886	180827G1_	Analyte	10	4.33	11672.89	13990.33	83.44
11	B8H0182-MSD1 LFSMD 0.2513	180827G1_	Analyte	10	4.33	12784.03	13990.33	91.38

12	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	10	4.33	12405.09	13990.33	88.67	
13	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	10	4.33	13080.89	13990.33	93.50	
14	1802610-03 WR1808211135LEM 0.26454	180827G1_ Analyte	10	4.34	12021.78	13990.33	85.93	
15	1802610-04 WT1808211250LEM 0.26311	180827G1_ Analyte	10	4.33	13954.40	13990.33	99.74	
16	1802610-05 FB1808211250LEM 0.26563	180827G1_ Analyte	10	4.33	13781.33	13990.33	98.51	
17	1802610-06 WT1808211345LEM 0.25978	180827G1_ Analyte	10	4.33	13013.18	13990.33	93.02	
18	1802610-07 WR1808211410LEM 0.25247	180827G1_ Analyte	10	4.33	12204.07	13990.33	87.23	
19	1802610-08 WR1808211430LEM 0.26643	180827G1_ Analyte	10	4.33	12606.62	13990.33	90.11	
20	1802610-09 WR1808211440LEM 0.26583	180827G1_ Analyte	10	4.33	12625.39	13990.33	90.24	
21	IPA	180827G1_ Analyte	10			13990.33	0.00	
22	ST180827G1-2 PFC CS1 537 18H2426	180827G1_ Analyte	10	4.33	12709.17	13990.33	90.84	
22	**ST180827G1-2 PFC CS1 537 18H2426**	180827G1_ Analyte	10	4.33	12709.17	12709.17	100.00	
23	IPA	180827G1_ Analyte	10			12709.17	0.00	
24	1802610-10 WR1808211500LEM 0.259	180827G1_ Analyte	10	4.33	13182.22	12709.17	103.72	
25	1802610-11 WT1808211520LEM 0.26476	180827G1_ Analyte	10	4.33	14006.72	12709.17	110.21	
26	1802610-12 WT1808211520LEM-FD 0.25841	180827G1_ Analyte	10	4.33	11869.54	12709.17	93.39	
27	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	10	4.33	12657.54	12709.17	99.59	
28	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	10	4.33	11703.84	12709.17	92.09	
29	1802614-02 CH-AT-1FB199-0818 0.25009	180827G1_ Analyte	10	4.33	12831.75	12709.17	100.96	
30	1802614-03 CH-AT-1RW200-0818 0.24747	180827G1_ Analyte	10	4.33	12444.55	12709.17	97.92	
31	1802614-04 CH-AT-1FB200-0818 0.2552	180827G1_ Analyte	10	4.33	13076.78	12709.17	102.89	
32	1802614-05 CH-AT-1RW201-0818 0.24899	180827G1_ Analyte	10	4.33	12274.18	12709.17	96.58	
33	IPA	180827G1_ Analyte	10			12709.17	0.00	
34	ST180827G1-3 PFC CS3 537 18H2428	180827G1_ Analyte	10	4.33	11626.85	12709.17	91.48	
34	**ST180827G1-3 PFC CS3 537 18H2428**	180827G1_ Analyte	10	4.33	11626.85	11626.85	100.00	
35	IPA	180827G1_ Analyte	10			11626.85	0.00	
36	1802614-06 CH-AT-1FB201-0818 0.24859	180827G1_ Analyte	10	4.34	13428.70	11626.85	115.50	
37	1802610-01@10X WT1808211030LEM 0.26117	180827G1_ Analyte	10	4.34	1385.04	11626.85	11.91	DIL
38	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	10	4.34	13289.57	11626.85	114.30	
39	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	10	4.33	12487.99	11626.85	107.41	
40	B8H0020-BS1 LFB 0.25	180827G1_ Analyte	10	4.34	11065.10	11626.85	95.17	
41	1802133-01 GWNT1807301100GSC 0.25038	180827G1_ Analyte	10	4.33	10358.29	11626.85	89.09	
42	1802136-01 GWEF1807301145GSC 0.25742	180827G1_ Analyte	10	4.33	11008.07	11626.85	94.68	

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43	1802139-01 GWEF1807301215GSC 0.25232	180827G1_ Analyte	10	4.33	11234.77	11626.85	96.63
44	B8H0193-BLK1 LRB 0.25	180827G1_ Analyte	10	4.33	12145.05	11626.85	104.46
45	B8H0193-BS1 LFB 0.25	180827G1_ Analyte	10	4.33	11828.32	11626.85	101.73
46	B8H0193-BS2 LFB 0.25	180827G1_ Analyte	10	4.33	12933.44	11626.85	111.24
47	B8H0193-BS3 LFB 0.25	180827G1_ Analyte	10	4.33	12641.96	11626.85	108.73
48	B8H0193-BS4 LFB 0.25	180827G1_ Analyte	10	4.33	12976.85	11626.85	111.61
49	B8H0193-BS5 LFB 0.25	180827G1_ Analyte	10	4.33	12654.26	11626.85	108.84
50	B8H0193-BS6 LFB 0.25	180827G1_ Analyte	10	4.33	11790.39	11626.85	101.41
51	B8H0193-BS7 LFB 0.25	180827G1_ Analyte	10	4.33	12431.43	11626.85	106.92
52	B8H0192-BLK1 LRB 0.25	180827G1_ Analyte	10	4.34	13124.70	11626.85	112.88
53	B8H0192-BS1 LFB 0.25	180827G1_ Analyte	10	4.34	13648.86	11626.85	117.39
54	B8H0192-BS2 LFB 0.25	180827G1_ Analyte	10	4.33	12791.49	11626.85	110.02
55	B8H0192-BS3 LFB 0.25	180827G1_ Analyte	10	4.33	14168.11	11626.85	121.86
56	B8H0192-BS4 LFB 0.25	180827G1_ Analyte	10	4.33	12599.19	11626.85	108.36
57	B8H0192-BS5 LFB 0.25	180827G1_ Analyte	10	4.33	12803.19	11626.85	110.12
58	B8H0192-BS6 LFB 0.25	180827G1_ Analyte	10	4.33	11969.38	11626.85	102.95
59	B8H0192-BS7 LFB 0.25	180827G1_ Analyte	10	4.33	12480.05	11626.85	107.34
60	B8H0004-BLK1 LRB 0.25	180827G1_ Analyte	10	4.33	11157.22	11626.85	95.96
61	B8H0004-BS1 LFB 0.25	180827G1_ Analyte	10	4.33	11005.02	11626.85	94.65
62	B8H0004-MS1 LFSM 0.23784	180827G1_ Analyte	10	4.33	11425.50	11626.85	98.27
63	B8H0004-MSD1 LFSMD 0.23642	180827G1_ Analyte	10	4.33	11164.81	11626.85	96.03
64	1802033-01 GWEF1807250915KER 0.24683	180827G1_ Analyte	10	4.33	11955.45	11626.85	102.83
65	1802049-01 WR1807250940JTM 0.24344	180827G1_ Analyte	10	4.33	11724.82	11626.85	100.84
66	1802050-01 WR1807251030JTM 0.24366	180827G1_ Analyte	10	4.33	11338.43	11626.85	97.52
67	IPA	180827G1_ Analyte	10			11626.85	0.00
68	ST180827G1-4 PFC CS-1 537 18H2424	180827G1_ Analyte	10	4.33	13225.02	11626.85	113.75
68	**ST180827G1-4 PFC CS-1 537 18H2424**	180827G1_ Analyte	10	4.33	13225.02	13225.02	100.00
69	IPA	180827G1_ Analyte	10			13225.02	0.00
70	1802051-01 WR1807251120JTM 0.24916	180827G1_ Analyte	10	4.33	11387.62	13225.02	86.11
71	1802052-01 WR1807251145JTM 0.24483	180827G1_ Analyte	10	4.33	11851.69	13225.02	89.62
72	1802053-01 WR1807251210JTM 0.23945	180827G1_ Analyte	10	4.33	11444.25	13225.02	86.53
73	1802054-01 WR1807251300JTM 0.24522	180827G1_ Analyte	10	4.33	11468.29	13225.02	86.72
74	1802081-01 GWIN1807260910KER 0.23574	180827G1_ Analyte	10	4.32	11565.62	13225.02	87.45
75	1802082-01 GWEF1807261020KER 0.24902	180827G1_ Analyte	10	4.33	10907.25	13225.02	82.47

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76	1802083-01 GWNT1807261130KER 0.23846	180827G1_	Analyte	10	4.33	11688.44	13225.02	88.38
77	1802084-02 SWEF1807261415KER 0.23755	180827G1_	Analyte	10	4.33	11314.46	13225.02	85.55
78	1802085-01 SWEF1807260900GSC 0.2441	180827G1_	Analyte	10	4.33	11370.69	13225.02	85.98
79	1802103-01 GWEF1807270915KER 0.24279	180827G1_	Analyte	10	4.33	12049.45	13225.02	91.11
80	IPA	180827G1_	Analyte	10			13225.02	0.00
81	ST180827G1-5 PFC CS1 537 18H2426	180827G1_	Analyte	10	4.33	13599.31	13225.02	102.83
81	**ST180827G1-5 PFC CS1 537 18H2426**	180827G1_	Analyte	10	4.33	13599.31	13599.31	100.00
82	IPA	180827G1_	Analyte	10			13599.31	0.00
83	1802103-02 GWEF1807270950KER 0.24181	180827G1_	Analyte	10	4.33	11527.22	13599.31	84.76
84	1802105-01 GWNT1807271045KER 0.23641	180827G1_	Analyte	10	4.33	12105.46	13599.31	89.02
85	1802105-02 GWNT1807271100KER 0.23741	180827G1_	Analyte	10	4.33	10798.81	13599.31	79.41
86	1802105-03 GWNT1807271120KER-FD 0.23969	180827G1_	Analyte	10	4.33	11925.42	13599.31	87.69
87	1802105-04 FB1807271130KER 0.2444	180827G1_	Analyte	10	4.33	11768.42	13599.31	86.54
88	1802106-01 GWNT1807271230KER 0.23703	180827G1_	Analyte	10	4.33	11116.74	13599.31	81.74
89	MIKE COHEN QC1	180827G1_	Analyte	10	4.33	12854.55	13599.31	94.52
90	MIKE COHEN QC2	180827G1_	Analyte	10	4.33	12889.44	13599.31	94.78
91	IPA	180827G1_	Analyte	10			13599.31	0.00
92	ST180827G1-6 PFC CS3 537 18H2428	180827G1_	Analyte	10	4.32	11344.87	13599.31	83.42
93	IPA	180827G1_	Analyte	10			13599.31	0.00

Compound 19: 13C4-PFOS

	ID	Name	Type	Std. Conc	RT	Area	ICAL AREA	% AREA
1	IPA	180827G1_	Analyte	28.7			24564.09	0.00
2	**ST180827G1-1 PFC CS-1 537 18H2424**	180827G1_	Analyte	28.7	4.75	24564.09	24564.09	100.00
3	IPA	180827G1_	Analyte	28.7			24564.09	0.00
4	B8H0168-BLK1 LRB 0.25	180827G1_	Analyte	28.7	4.75	20741.34	24564.09	84.44
5	B8H0168-BS1 LFB 0.25	180827G1_	Analyte	28.7	4.75	19307.44	24564.09	78.60
6	1802572-01 WR1808201230CKA 0.23973	180827G1_	Analyte	28.7	4.76	20669.34	24564.09	84.14
7	1802572-02 WR1808201250CKA 0.25444	180827G1_	Analyte	28.7	4.76	21312.39	24564.09	86.76
8	B8H0182-BLK1 LRB 0.25	180827G1_	Analyte	28.7	4.76	24955.69	24564.09	101.59
9	B8H0182-BS1 LFB 0.25	180827G1_	Analyte	28.7	4.76	21711.76	24564.09	88.39
10	B8H0182-MS1 LFSM 0.24886	180827G1_	Analyte	28.7	4.76	21837.49	24564.09	88.90

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11	B8H0182-MSD1 LFSMD 0.2513	180827G1_ Analyte	28.7	4.76	22108.45	24564.09	90.00	
12	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	28.7	4.75	14605.50	24564.09	59.46	
13	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	28.7	4.76	24442.82	24564.09	99.51	
14	1802610-03 WR1808211135LEM 0.26454	180827G1_ Analyte	28.7	4.75	23221.80	24564.09	94.54	
15	1802610-04 WT1808211250LEM 0.26311	180827G1_ Analyte	28.7	4.75	24403.43	24564.09	99.35	
16	1802610-05 FB1808211250LEM 0.26563	180827G1_ Analyte	28.7	4.75	24160.54	24564.09	98.36	
17	1802610-06 WT1808211345LEM 0.25978	180827G1_ Analyte	28.7	4.75	23067.46	24564.09	93.91	
18	1802610-07 WR1808211410LEM 0.25247	180827G1_ Analyte	28.7	4.75	22257.61	24564.09	90.61	
19	1802610-08 WR1808211430LEM 0.26643	180827G1_ Analyte	28.7	4.76	24313.10	24564.09	98.98	
20	1802610-09 WR1808211440LEM 0.26583	180827G1_ Analyte	28.7	4.76	22319.87	24564.09	90.86	
21	IPA	180827G1_ Analyte	28.7			24564.09	0.00	
22	ST180827G1-2 PFC CS1 537 18H2426	180827G1_ Analyte	28.7	4.75	22676.93	24564.09	92.32	
22	**ST180827G1-2 PFC CS1 537 18H2426**	180827G1_ Analyte	28.7	4.75	22676.93	22676.93	100.00	
23	IPA	180827G1_ Analyte	28.7			22676.93	0.00	
24	1802610-10 WR1808211500LEM 0.259	180827G1_ Analyte	28.7	4.76	23855.56	22676.93	105.20	
25	1802610-11 WT1808211520LEM 0.26476	180827G1_ Analyte	28.7	4.76	24523.21	22676.93	108.14	
26	1802610-12 WT1808211520LEM-FD 0.25841	180827G1_ Analyte	28.7	4.76	22331.21	22676.93	98.48	
27	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	28.7	4.76	14698.48	22676.93	64.82	
28	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	28.7	4.76	21869.40	22676.93	96.44	
29	1802614-02 CH-AT-1FB199-0818 0.25009	180827G1_ Analyte	28.7	4.76	23885.17	22676.93	105.33	
30	1802614-03 CH-AT-1RW200-0818 0.24747	180827G1_ Analyte	28.7	4.75	22624.42	22676.93	99.77	
31	1802614-04 CH-AT-1FB200-0818 0.2552	180827G1_ Analyte	28.7	4.76	22897.78	22676.93	100.97	
32	1802614-05 CH-AT-1RW201-0818 0.24899	180827G1_ Analyte	28.7	4.75	22538.28	22676.93	99.39	
33	IPA	180827G1_ Analyte	28.7			22676.93	0.00	
34	ST180827G1-3 PFC CS3 537 18H2428	180827G1_ Analyte	28.7	4.75	21096.37	22676.93	93.03	
34	**ST180827G1-3 PFC CS3 537 18H2428**	180827G1_ Analyte	28.7	4.75	21096.37	21096.37	100.00	
35	IPA	180827G1_ Analyte	28.7			21096.37	0.00	
36	1802614-06 CH-AT-1FB201-0818 0.24859	180827G1_ Analyte	28.7	4.75	23542.57	21096.37	111.60	
37	1802610-01@10X WT1808211030LEM 0.26117	180827G1_ Analyte	28.7	4.75	2453.87	21096.37	11.63	DIL
38	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	28.7	4.75	22986.22	21096.37	108.96	
39	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	28.7	4.76	22410.97	21096.37	106.23	
40	B8H0020-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.76	20060.60	21096.37	95.09	
41	1802133-01 GWNT1807301100GSC 0.25038	180827G1_ Analyte	28.7	4.75	18948.03	21096.37	89.82	

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42	1802136-01 GWEF1807301145GSC 0.25742	180827G1_ Analyte	28.7	4.75	20278.52	21096.37	96.12
43	1802139-01 GWEF1807301215GSC 0.25232	180827G1_ Analyte	28.7	4.75	20339.49	21096.37	96.41
44	B8H0193-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	20924.83	21096.37	99.19
45	B8H0193-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	23141.62	21096.37	109.69
46	B8H0193-BS2 LFB 0.25	180827G1_ Analyte	28.7	4.75	21490.21	21096.37	101.87
47	B8H0193-BS3 LFB 0.25	180827G1_ Analyte	28.7	4.75	23535.23	21096.37	111.56
48	B8H0193-BS4 LFB 0.25	180827G1_ Analyte	28.7	4.75	23400.78	21096.37	110.92
49	B8H0193-BS5 LFB 0.25	180827G1_ Analyte	28.7	4.75	21966.18	21096.37	104.12
50	B8H0193-BS6 LFB 0.25	180827G1_ Analyte	28.7	4.75	21509.08	21096.37	101.96
51	B8H0193-BS7 LFB 0.25	180827G1_ Analyte	28.7	4.75	21888.15	21096.37	103.75
52	B8H0192-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	22019.36	21096.37	104.38
53	B8H0192-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	22489.49	21096.37	106.60
54	B8H0192-BS2 LFB 0.25	180827G1_ Analyte	28.7	4.75	23032.11	21096.37	109.18
55	B8H0192-BS3 LFB 0.25	180827G1_ Analyte	28.7	4.75	24581.45	21096.37	116.52
56	B8H0192-BS4 LFB 0.25	180827G1_ Analyte	28.7	4.75	23204.29	21096.37	109.99
57	B8H0192-BS5 LFB 0.25	180827G1_ Analyte	28.7	4.75	21102.67	21096.37	100.03
58	B8H0192-BS6 LFB 0.25	180827G1_ Analyte	28.7	4.76	21401.95	21096.37	101.45
59	B8H0192-BS7 LFB 0.25	180827G1_ Analyte	28.7	4.75	23050.36	21096.37	109.26
60	B8H0004-BLK1 LRB 0.25	180827G1_ Analyte	28.7	4.75	21602.71	21096.37	102.40
61	B8H0004-BS1 LFB 0.25	180827G1_ Analyte	28.7	4.75	19964.71	21096.37	94.64
62	B8H0004-MS1 LFSM 0.23784	180827G1_ Analyte	28.7	4.75	19241.49	21096.37	91.21
63	B8H0004-MSD1 LFSMD 0.23642	180827G1_ Analyte	28.7	4.75	19512.61	21096.37	92.49
64	1802033-01 GWEF1807250915KER 0.24683	180827G1_ Analyte	28.7	4.75	20613.93	21096.37	97.71
65	1802049-01 WR1807250940JTM 0.24344	180827G1_ Analyte	28.7	4.76	20529.00	21096.37	97.31
66	1802050-01 WR1807251030JTM 0.24366	180827G1_ Analyte	28.7	4.76	21521.53	21096.37	102.02
67	IPA	180827G1_ Analyte	28.7			21096.37	0.00
68	ST180827G1-4 PFC CS-1 537 18H2424	180827G1_ Analyte	28.7	4.75	23122.19	21096.37	109.60
68	**ST180827G1-4 PFC CS-1 537 18H2424**	180827G1_ Analyte	28.7	4.75	23122.19	23122.19	100.00
69	IPA	180827G1_ Analyte	28.7			23122.19	0.00
70	1802051-01 WR1807251120JTM 0.24916	180827G1_ Analyte	28.7	4.75	20254.09	23122.19	87.60
71	1802052-01 WR1807251145JTM 0.24483	180827G1_ Analyte	28.7	4.76	20794.19	23122.19	89.93
72	1802053-01 WR1807251210JTM 0.23945	180827G1_ Analyte	28.7	4.75	21284.25	23122.19	92.05
73	1802054-01 WR1807251300JTM 0.24522	180827G1_ Analyte	28.7	4.75	19922.73	23122.19	86.16
74	1802081-01 GWIN1807260910KER 0.23574	180827G1_ Analyte	28.7	4.75	21530.22	23122.19	93.11

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75	1802082-01 GWEF1807261020KER 0.24902	180827G1_	Analyte	28.7	4.75	21544.10	23122.19	93.17
76	1802083-01 GWNT1807261130KER 0.23846	180827G1_	Analyte	28.7	4.75	19595.76	23122.19	84.75
77	1802084-02 SWEF1807261415KER 0.23755	180827G1_	Analyte	28.7	4.75	19746.15	23122.19	85.40
78	1802085-01 SWEF1807260900GSC 0.2441	180827G1_	Analyte	28.7	4.75	21390.01	23122.19	92.51
79	1802103-01 GWEF1807270915KER 0.24279	180827G1_	Analyte	28.7	4.75	20395.62	23122.19	88.21
80	IPA	180827G1_	Analyte	28.7			23122.19	0.00
81	ST180827G1-5 PFC CS1 537 18H2426	180827G1_	Analyte	28.7	4.75	22836.47	23122.19	98.76
81	**ST180827G1-5 PFC CS1 537 18H2426**	180827G1_	Analyte	28.7	4.75	22836.47	22836.47	100.00
82	IPA	180827G1_	Analyte	28.7			22836.47	0.00
83	1802103-02 GWEF1807270950KER 0.24181	180827G1_	Analyte	28.7	4.75	20751.89	22836.47	90.87
84	1802105-01 GWNT1807271045KER 0.23641	180827G1_	Analyte	28.7	4.76	20760.08	22836.47	90.91
85	1802105-02 GWNT1807271100KER 0.23741	180827G1_	Analyte	28.7	4.75	19191.45	22836.47	84.04
86	1802105-03 GWNT1807271120KER-FD 0.23969	180827G1_	Analyte	28.7	4.76	20978.54	22836.47	91.86
87	1802105-04 FB1807271130KER 0.2444	180827G1_	Analyte	28.7	4.75	20978.97	22836.47	91.87
88	1802106-01 GWNT1807271230KER 0.23703	180827G1_	Analyte	28.7	4.75	19025.22	22836.47	83.31
89	MIKE COHEN QC1	180827G1_	Analyte	28.7	4.75	21239.33	22836.47	93.01
90	MIKE COHEN QC2	180827G1_	Analyte	28.7	4.75	23113.96	22836.47	101.22
91	IPA	180827G1_	Analyte	28.7			22836.47	0.00
92	ST180827G1-6 PFC CS3 537 18H2428	180827G1_	Analyte	28.7	4.75	20529.02	22836.47	89.90
93	IPA	180827G1_	Analyte	28.7			22836.47	0.00

Compound 20: d3-N-MeFOSAA

	ID	Name	Type	Std. Conc	RT	Area	ICAL AREA	% AREA
1	IPA	180827G1_	Analyte	40			17587.06	0.00
2	**ST180827G1-1 PFC CS-1 537 18H2424**	180827G1_	Analyte	40	5.13	17587.06	17587.06	100.00
3	IPA	180827G1_	Analyte	40			17587.06	0.00
4	B8H0168-BLK1 LRB 0.25	180827G1_	Analyte	40	5.13	15508.61	17587.06	88.18
5	B8H0168-BS1 LFB 0.25	180827G1_	Analyte	40	5.13	14801.52	17587.06	84.16
6	1802572-01 WR1808201230CKA 0.23973	180827G1_	Analyte	40	5.13	17133.44	17587.06	97.42
7	1802572-02 WR1808201250CKA 0.25444	180827G1_	Analyte	40	5.13	16367.14	17587.06	93.06
8	B8H0182-BLK1 LRB 0.25	180827G1_	Analyte	40	5.13	20489.51	17587.06	116.50

9	B8H0182-BS1 LFB 0.25	180827G1_ Analyte	40	5.13	16962.42	17587.06	96.45	
10	B8H0182-MS1 LFSM 0.24886	180827G1_ Analyte	40	5.13	17926.90	17587.06	101.93	
11	B8H0182-MSD1 LFSMD 0.2513	180827G1_ Analyte	40	5.13	18703.91	17587.06	106.35	
12	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	40	5.13	18388.04	17587.06	104.55	
13	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	40	5.14	17104.18	17587.06	97.25	
14	1802610-03 WR1808211135LEM 0.26454	180827G1_ Analyte	40	5.13	19340.71	17587.06	109.97	
15	1802610-04 WT1808211250LEM 0.26311	180827G1_ Analyte	40	5.13	19958.82	17587.06	113.49	
16	1802610-05 FB1808211250LEM 0.26563	180827G1_ Analyte	40	5.13	18804.59	17587.06	106.92	
17	1802610-06 WT1808211345LEM 0.25978	180827G1_ Analyte	40	5.13	18345.38	17587.06	104.31	
18	1802610-07 WR1808211410LEM 0.25247	180827G1_ Analyte	40	5.13	17148.66	17587.06	97.51	
19	1802610-08 WR1808211430LEM 0.26643	180827G1_ Analyte	40	5.13	18649.64	17587.06	106.04	
20	1802610-09 WR1808211440LEM 0.26583	180827G1_ Analyte	40	5.14	18299.05	17587.06	104.05	
21	IPA	180827G1_ Analyte	40			17587.06	0.00	
22	ST180827G1-2 PFC CS1 537 18H2426	180827G1_ Analyte	40	5.13	18171.05	17587.06	103.32	
22	**ST180827G1-2 PFC CS1 537 18H2426**	180827G1_ Analyte	40	5.13	18171.05	18171.05	100.00	
23	IPA	180827G1_ Analyte	40			18171.05	0.00	
24	1802610-10 WR1808211500LEM 0.259	180827G1_ Analyte	40	5.13	19436.59	18171.05	106.96	
25	1802610-11 WT1808211520LEM 0.26476	180827G1_ Analyte	40	5.13	20448.84	18171.05	112.54	
26	1802610-12 WT1808211520LEM-FD 0.25841	180827G1_ Analyte	40	5.13	18661.48	18171.05	102.70	
27	1802610-01 WT1808211030LEM 0.26117	180827G1_ Analyte	40	5.13	17895.25	18171.05	98.48	
28	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	40	5.13	16450.65	18171.05	90.53	
29	1802614-02 CH-AT-1FB199-0818 0.25009	180827G1_ Analyte	40	5.13	19635.40	18171.05	108.06	
30	1802614-03 CH-AT-1RW200-0818 0.24747	180827G1_ Analyte	40	5.13	18847.20	18171.05	103.72	
31	1802614-04 CH-AT-1FB200-0818 0.2552	180827G1_ Analyte	40	5.13	19509.27	18171.05	107.36	
32	1802614-05 CH-AT-1RW201-0818 0.24899	180827G1_ Analyte	40	5.13	17961.81	18171.05	98.85	
33	IPA	180827G1_ Analyte	40			18171.05	0.00	
34	ST180827G1-3 PFC CS3 537 18H2428	180827G1_ Analyte	40	5.12	19648.99	18171.05	108.13	
34	**ST180827G1-3 PFC CS3 537 18H2428**	180827G1_ Analyte	40	5.12	19648.99	19648.99	100.00	
35	IPA	180827G1_ Analyte	40			19648.99	0.00	
36	1802614-06 CH-AT-1FB201-0818 0.24859	180827G1_ Analyte	40	5.12	21804.50	19648.99	110.97	
37	1802610-01@10X WT1808211030LEM 0.26117	180827G1_ Analyte	40	5.12	1896.83	19648.99	9.65	DIL
38	1802610-02 WR1808211035LEM 0.26149	180827G1_ Analyte	40	5.12	19457.30	19648.99	99.02	
39	1802614-01 CH-AT-1RW199-0818 0.25043	180827G1_ Analyte	40	5.12	18001.88	19648.99	91.62	

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40	B8H0020-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	17191.19	19648.99	87.49
41	1802133-01 GWNT1807301100GSC 0.25038	180827G1_ Analyte	40	5.13	13943.22	19648.99	70.96
42	1802136-01 GWEF1807301145GSC 0.25742	180827G1_ Analyte	40	5.13	16548.07	19648.99	84.22
43	1802139-01 GWEF1807301215GSC 0.25232	180827G1_ Analyte	40	5.13	16492.56	19648.99	83.94
44	B8H0193-BLK1 LRB 0.25	180827G1_ Analyte	40	5.12	18029.11	19648.99	91.76
45	B8H0193-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	17553.17	19648.99	89.33
46	B8H0193-BS2 LFB 0.25	180827G1_ Analyte	40	5.12	18997.46	19648.99	96.68
47	B8H0193-BS3 LFB 0.25	180827G1_ Analyte	40	5.12	20127.82	19648.99	102.44
48	B8H0193-BS4 LFB 0.25	180827G1_ Analyte	40	5.12	18879.74	19648.99	96.09
49	B8H0193-BS5 LFB 0.25	180827G1_ Analyte	40	5.12	18887.39	19648.99	96.12
50	B8H0193-BS6 LFB 0.25	180827G1_ Analyte	40	5.12	17047.38	19648.99	86.76
51	B8H0193-BS7 LFB 0.25	180827G1_ Analyte	40	5.12	18949.17	19648.99	96.44
52	B8H0192-BLK1 LRB 0.25	180827G1_ Analyte	40	5.12	17358.98	19648.99	88.35
53	B8H0192-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	18623.80	19648.99	94.78
54	B8H0192-BS2 LFB 0.25	180827G1_ Analyte	40	5.12	19178.89	19648.99	97.61
55	B8H0192-BS3 LFB 0.25	180827G1_ Analyte	40	5.12	19722.44	19648.99	100.37
56	B8H0192-BS4 LFB 0.25	180827G1_ Analyte	40	5.12	17610.27	19648.99	89.62
57	B8H0192-BS5 LFB 0.25	180827G1_ Analyte	40	5.12	20353.95	19648.99	103.59
58	B8H0192-BS6 LFB 0.25	180827G1_ Analyte	40	5.11	19510.16	19648.99	99.29
59	B8H0192-BS7 LFB 0.25	180827G1_ Analyte	40	5.12	17782.48	19648.99	90.50
60	B8H0004-BLK1 LRB 0.25	180827G1_ Analyte	40	5.12	17503.01	19648.99	89.08
61	B8H0004-BS1 LFB 0.25	180827G1_ Analyte	40	5.12	17175.94	19648.99	87.41
62	B8H0004-MS1 LFSM 0.23784	180827G1_ Analyte	40	5.12	16039.38	19648.99	81.63
63	B8H0004-MSD1 LFSMD 0.23642	180827G1_ Analyte	40	5.12	15835.18	19648.99	80.59
64	1802033-01 GWEF1807250915KER 0.24683	180827G1_ Analyte	40	5.12	18206.69	19648.99	92.66
65	1802049-01 WR1807250940JTM 0.24344	180827G1_ Analyte	40	5.12	16383.75	19648.99	83.38
66	1802050-01 WR1807251030JTM 0.24366	180827G1_ Analyte	40	5.12	17311.81	19648.99	88.11
67	IPA	180827G1_ Analyte	40			19648.99	0.00
68	ST180827G1-4 PFC CS-1 537 18H2424	180827G1_ Analyte	40	5.12	18261.41	19648.99	92.94
68	**ST180827G1-4 PFC CS-1 537 18H2424**	180827G1_ Analyte	40	5.12	18261.41	18261.41	100.00
69	IPA	180827G1_ Analyte	40			18261.41	0.00
70	1802051-01 WR1807251120JTM 0.24916	180827G1_ Analyte	40	5.12	16584.16	18261.41	90.82
71	1802052-01 WR1807251145JTM 0.24483	180827G1_ Analyte	40	5.12	18028.61	18261.41	98.73
72	1802053-01 WR1807251210JTM 0.23945	180827G1_ Analyte	40	5.12	17311.97	18261.41	94.80

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73	1802054-01 WR1807251300JTM 0.24522	180827G1_ Analyte	40	5.11	16712.01	18261.41	91.52
74	1802081-01 GWIN1807260910KER 0.23574	180827G1_ Analyte	40	5.12	16638.26	18261.41	91.11
75	1802082-01 GWEF1807261020KER 0.24902	180827G1_ Analyte	40	5.12	16722.02	18261.41	91.57
76	1802083-01 GWNT1807261130KER 0.23846	180827G1_ Analyte	40	5.12	16271.02	18261.41	89.10
77	1802084-02 SWEF1807261415KER 0.23755	180827G1_ Analyte	40	5.12	15990.89	18261.41	87.57
78	1802085-01 SWEF1807260900GSC 0.2441	180827G1_ Analyte	40	5.12	16677.46	18261.41	91.33
79	1802103-01 GWEF1807270915KER 0.24279	180827G1_ Analyte	40	5.12	16119.84	18261.41	88.27
80	IPA	180827G1_ Analyte	40			18261.41	0.00
81	ST180827G1-5 PFC CS1 537 18H2426	180827G1_ Analyte	40	5.12	18891.63	18261.41	103.45
81	**ST180827G1-5 PFC CS1 537 18H2426**	180827G1_ Analyte	40	5.12	18891.63	18891.63	100.00
82	IPA	180827G1_ Analyte	40			18891.63	0.00
83	1802103-02 GWEF1807270950KER 0.24181	180827G1_ Analyte	40	5.12	16993.54	18891.63	89.95
84	1802105-01 GWNT1807271045KER 0.23641	180827G1_ Analyte	40	5.11	16599.76	18891.63	87.87
85	1802105-02 GWNT1807271100KER 0.23741	180827G1_ Analyte	40	5.11	15519.23	18891.63	82.15
86	1802105-03 GWNT1807271120KER-FD 0.23969	180827G1_ Analyte	40	5.12	17034.25	18891.63	90.17
87	1802105-04 FB1807271130KER 0.2444	180827G1_ Analyte	40	5.11	16587.84	18891.63	87.81
88	1802106-01 GWNT1807271230KER 0.23703	180827G1_ Analyte	40	5.11	15715.54	18891.63	83.19
89	MIKE COHEN QC1	180827G1_ Analyte	40	5.12	16991.82	18891.63	89.94
90	MIKE COHEN QC2	180827G1_ Analyte	40	5.11	19326.89	18891.63	102.30
91	IPA	180827G1_ Analyte	40			18891.63	0.00
92	ST180827G1-6 PFC CS3 537 18H2428	180827G1_ Analyte	40	5.11	16678.62	18891.63	88.29
93	IPA	180827G1_ Analyte	40			18891.63	0.00

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LC Calibration Standards Review Checklist Q1

		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	NA
Calibration ID: ST180827G1-1	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID: S T -2	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID: -3	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID: -4	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID: -5	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID: -6	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	L M H	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 7-10-18

Run Log Present: ☑

# of Samples per Sequence Checked: ☑

Instrument Blank Saved ☐ NA

IIS Area Saved ☑

Reviewed By: MJT 8/28/18
Initials/Date

Comments:

DW - L14

ID: LR - LCSRC *Rev. No.: 1* *Rev. Date: 02/06/2018* *Page: 1 of 1*

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-2.qld

Last Altered: Monday, August 27, 2018 16:43:41 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:56:07 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_2, Date: 27-Aug-2018, Time: 08:58:46, ID: ST180827G1-1 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

MJT 8/28/18

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	8.92e2	2.46e4	1.00		3.01	3.03	1.04	1.62	91.0
2	2	PFHxA	312.7 > 268.8	2.12e3	1.40e4	1.00		3.38	3.40	1.52	2.14	107.2
3	3	PFHpA	362.7 > 318.8	2.26e3	1.40e4	1.00		3.92	3.90	1.62	2.08	103.9
4	4	PFHxS	398.7 > 80.7	1.15e3	2.46e4	1.00		4.05	4.02	1.35	1.63	89.5
5	5	PFOA	412.8 > 369.0	1.99e3	1.40e4	1.00		4.33	4.33	1.42	1.95	97.4
6	6	PFNA	462.9 > 419.1	2.16e3	1.40e4	1.00		4.67	4.69	1.54	1.80	90.0
7	7	PFOS	498.8 >80.7	4.15e2	2.46e4	1.00		4.76	4.75	0.485	1.58	85.1
8	8	PFDA	512.8 > 469.0	2.30e3	1.40e4	1.00		4.97	5.01	1.64	1.85	92.6
9	9	N-MeFOSAA	569.7 > 419.0	1.01e3	1.76e4	1.00		5.14	5.14	2.29	1.81	90.6
10	10	N-EtFOSAA	583.6 >419.1	1.08e3	1.76e4	1.00		5.26	5.25	2.46	2.13	106.7
11	11	PFUnA	562.7 > 518.9	2.55e3	1.40e4	1.00		5.22	5.26	1.82	1.87	93.7
12	12	PFDoA	612.5 > 319.0	3.97e2	1.40e4	1.00		5.44	5.48	0.284	1.86	93.0
13	13	PFTrDA	662.4 > 618.7	2.46e3	1.40e4	1.00		5.64	5.68	1.76	1.80	89.8
14	14	PFTeDA	712.2>668.4	2.48e3	1.40e4	1.00		5.83	5.86	1.77	1.73	86.3
15	15	13C2-PFHxA	314.8 > 269.9	9.47e3	1.40e4	1.00	0.651	3.47	3.40	6.77	10.4	104.0
16	16	13C2-PFDA	514.8 > 470.0	1.34e4	1.40e4	1.00	1.028	4.94	5.01	9.54	9.28	92.8
17	17	d5-N-EtFOSAA	588.7> 419.1	2.49e4	1.76e4	1.00	1.457	5.13	5.25	56.7	38.9	97.2
18	18	13C2-PFOA	414.7 > 369.9	1.40e4	1.40e4	1.00	1.000	4.45	4.33	10.0	10.0	100.0
19	19	13C4-PFOS	502.8>80.5	2.46e4	2.46e4	1.00	1.000	4.84	4.75	28.7	28.7	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	1.76e4	1.76e4	1.00	1.000	5.21	5.13	40.0	40.0	100.0

CCH 8/28/18

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Compound name: PFBS

	#	Name	ID	Acq.Date	Acq.Time
1	1	180827G1_1	IPA	27-Aug-18	08:46:40
2	2	180827G1_2	ST180827G1-1 PFC CS-1 537 18H2424	27-Aug-18	08:58:46 ✓
3	3	180827G1_3	IPA	27-Aug-18	09:11:50
4	4	180827G1_4	B8H0168-BLK1 LRB 0.25	27-Aug-18	09:24:58
5	5	180827G1_5	B8H0168-BS1 LFB 0.25	27-Aug-18	09:37:56
6	6	180827G1_6	1802572-01 WR1808201230CKA 0.239...	27-Aug-18	09:50:57
7	7	180827G1_7	1802572-02 WR1808201250CKA 0.254...	27-Aug-18	10:03:52
8	8	180827G1_8	B8H0182-BLK1 LRB 0.25	27-Aug-18	10:17:40
9	9	180827G1_9	B8H0182-BS1 LFB 0.25	27-Aug-18	10:30:03
10	10	180827G1_10	B8H0182-MS1 LFSM 0.24886	27-Aug-18	10:43:09
11	11	180827G1_11	B8H0182-MSD1 LFSMD 0.2513	27-Aug-18	10:56:15
12	12	180827G1_12	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	11:09:21
13	13	180827G1_13	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	11:30:21
14	14	180827G1_14	1802610-03 WR1808211135LEM 0.264...	27-Aug-18	11:42:24
15	15	180827G1_15	1802610-04 WT1808211250LEM 0.263...	27-Aug-18	11:55:22
16	16	180827G1_16	1802610-05 FB1808211250LEM 0.26563	27-Aug-18	12:08:27
17	17	180827G1_17	1802610-06 WT1808211345LEM 0.259...	27-Aug-18	12:21:32
18	18	180827G1_18	1802610-07 WR1808211410LEM 0.252...	27-Aug-18	12:34:31
19	19	180827G1_19	1802610-08 WR1808211430LEM 0.266...	27-Aug-18	12:47:35
20	20	180827G1_20	1802610-09 WR1808211440LEM 0.265...	27-Aug-18	13:00:42
21	21	180827G1_21	IPA ✓	27-Aug-18	13:13:44
22	22	180827G1_22	ST180827G1-2 PFC CS1 537 18H2426	27-Aug-18	13:26:52
23	23	180827G1_23	IPA	27-Aug-18	13:39:55
24	24	180827G1_24	1802610-10 WR1808211500LEM 0.259	27-Aug-18	13:53:01
25	25	180827G1_25	1802610-11 WT1808211520LEM 0.264...	27-Aug-18	14:08:10
26	26	180827G1_26	1802610-12 WT1808211520LEM-FD 0....	27-Aug-18	14:20:13
27	27	180827G1_27	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	14:33:11
28	28	180827G1_28	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	14:46:08
29	29	180827G1_29	1802614-02 CH-AT-1FB199-0818 0.250...	27-Aug-18	14:59:07
30	30	180827G1_30	1802614-03 CH-AT-1RW200-0818 0.24...	27-Aug-18	15:12:19
31	31	180827G1_31	1802614-04 CH-AT-1FB200-0818 0.2552	27-Aug-18	15:25:17
32	32	180827G1_32	1802614-05 CH-AT-1RW201-0818 0.24...	27-Aug-18	15:38:24

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

	#	Name	ID	Acq.Date	Acq.Time
33	33	180827G1_33	IPA	27-Aug-18	15:51:24
34	34	180827G1_34	ST180827G1-3 PFC CS3 537 18H2428	27-Aug-18	16:04:25
35	35	180827G1_35	IPA	27-Aug-18	16:17:29
36	36	180827G1_36	1802614-06 CH-AT-1FB201-0818 0.248...	27-Aug-18	16:30:39
37	37	180827G1_37	1802610-01@10X WT1808211030LEM...	27-Aug-18	16:43:37
38	38	180827G1_38	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	16:56:34
39	39	180827G1_39	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	17:09:31
40	40	180827G1_40	B8H0020-BS1 LFB 0.25	27-Aug-18	17:22:32
41	41	180827G1_41	1802133-01 GWNT1807301100GSC 0....	27-Aug-18	17:35:36
42	42	180827G1_42	1802136-01 GWEF1807301145GSC 0....	27-Aug-18	17:48:31
43	43	180827G1_43	1802139-01 GWEF1807301215GSC 0....	27-Aug-18	18:01:39
44	44	180827G1_44	B8H0193-BLK1 LRB 0.25	27-Aug-18	18:14:34
45	45	180827G1_45	B8H0193-BS1 LFB 0.25	27-Aug-18	18:27:39
46	46	180827G1_46	B8H0193-BS2 LFB 0.25	27-Aug-18	18:40:47
47	47	180827G1_47	B8H0193-BS3 LFB 0.25	27-Aug-18	18:53:46
48	48	180827G1_48	B8H0193-BS4 LFB 0.25	27-Aug-18	19:06:44
49	49	180827G1_49	B8H0193-BS5 LFB 0.25	27-Aug-18	19:19:41
50	50	180827G1_50	B8H0193-BS6 LFB 0.25	27-Aug-18	19:32:39
51	51	180827G1_51	B8H0193-BS7 LFB 0.25	27-Aug-18	19:45:36
52	52	180827G1_52	B8H0192-BLK1 LRB 0.25	27-Aug-18	19:58:34
53	53	180827G1_53	B8H0192-BS1 LFB 0.25	27-Aug-18	20:11:41
54	54	180827G1_54	B8H0192-BS2 LFB 0.25	27-Aug-18	20:24:46
55	55	180827G1_55	B8H0192-BS3 LFB 0.25	27-Aug-18	20:37:47
56	56	180827G1_56	B8H0192-BS4 LFB 0.25	27-Aug-18	20:50:45
57	57	180827G1_57	B8H0192-BS5 LFB 0.25	27-Aug-18	21:03:42
58	58	180827G1_58	B8H0192-BS6 LFB 0.25	27-Aug-18	21:16:39
59	59	180827G1_59	B8H0192-BS7 LFB 0.25	27-Aug-18	21:29:36
60	60	180827G1_60	B8H0004-BLK1 LRB 0.25	27-Aug-18	21:42:33
61	61	180827G1_61	B8H0004-BS1 LFB 0.25	27-Aug-18	21:55:30
62	62	180827G1_62	B8H0004-MS1 LFSM 0.23784	27-Aug-18	22:08:28
63	63	180827G1_63	B8H0004-MSD1 LFSMD 0.23642	27-Aug-18	22:21:35
64	64	180827G1_64	1802033-01 GWEF1807250915KER 0....	27-Aug-18	22:34:39
65	65	180827G1_65	1802049-01 WR1807250940JTM 0.243...	27-Aug-18	22:47:45
66	66	180827G1_66	1802050-01 WR1807251030JTM 0.243...	27-Aug-18	23:00:51
67	67	180827G1_67	IPA	27-Aug-18	23:13:52
68	68	180827G1_68	ST180827G1-4 PFC CS-1 537 18H2424	27-Aug-18	23:26:52

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

	#	Name	ID	Acq.Date	Acq.Time
69	69	180827G1_69	IPA	27-Aug-18	23:39:55
70	70	180827G1_70	1802051-01 WR1807251120JTM 0.249...	27-Aug-18	23:52:54
71	71	180827G1_71	1802052-01 WR1807251145JTM 0.244...	28-Aug-18	00:05:56
72	72	180827G1_72	1802053-01 WR1807251210JTM 0.239...	28-Aug-18	00:18:54
73	73	180827G1_73	1802054-01 WR1807251300JTM 0.245...	28-Aug-18	00:31:57
74	74	180827G1_74	1802081-01 GWIN1807260910KER 0.2...	28-Aug-18	00:44:50
75	75	180827G1_75	1802082-01 GWEF1807261020KER 0....	28-Aug-18	00:57:55
76	76	180827G1_76	1802083-01 GWNT1807261130KER 0....	28-Aug-18	01:11:01
77	77	180827G1_77	1802084-02 SWEF1807261415KER 0....	28-Aug-18	01:24:06
78	78	180827G1_78	1802085-01 SWEF1807260900GSC 0....	28-Aug-18	01:37:07
79	79	180827G1_79	1802103-01 GWEF1807270915KER 0....	28-Aug-18	01:50:05
80	80	180827G1_80	IPA	28-Aug-18	02:03:03
81	81	180827G1_81	ST180827G1-5 PFC CS1 537 18H2426	28-Aug-18	02:16:02
82	82	180827G1_82	IPA	28-Aug-18	02:29:06
83	83	180827G1_83	1802103-02 GWEF1807270950KER 0....	28-Aug-18	02:42:12
84	84	180827G1_84	1802105-01 GWNT1807271045KER 0....	28-Aug-18	02:55:15
85	85	180827G1_85	1802105-02 GWNT1807271100KER 0....	28-Aug-18	03:08:12
86	86	180827G1_86	1802105-03 GWNT1807271120KER-F...	28-Aug-18	03:21:19
87	87	180827G1_87	1802105-04 FB1807271130KER 0.2444	28-Aug-18	03:34:25
88	88	180827G1_88	1802106-01 GWNT1807271230KER 0....	28-Aug-18	03:47:30
89	89	180827G1_89	MIKE COHEN QC1	28-Aug-18	04:00:31
90	90	180827G1_90	MIKE COHEN QC2	28-Aug-18	04:13:29
91	91	180827G1_91	IPA	28-Aug-18	04:26:26
92	92	180827G1_92	ST180827G1-6 PFC CS3 537 18H2428	28-Aug-18	04:39:26
93	93	180827G1_93	IPA	28-Aug-18	04:52:30

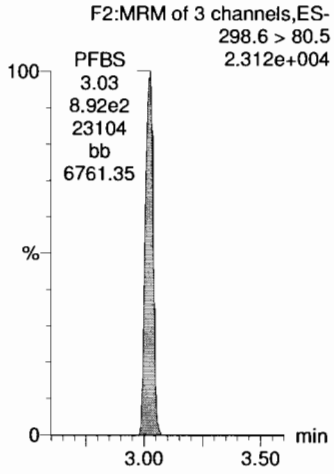
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-2.qld

Last Altered: Monday, August 27, 2018 16:43:41 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:56:07 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_2, Date: 27-Aug-2018, Time: 08:58:46, ID: ST180827G1-1 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

PFBS



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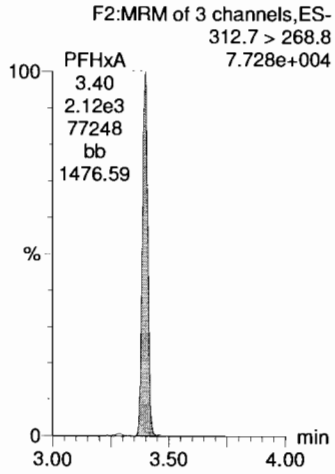

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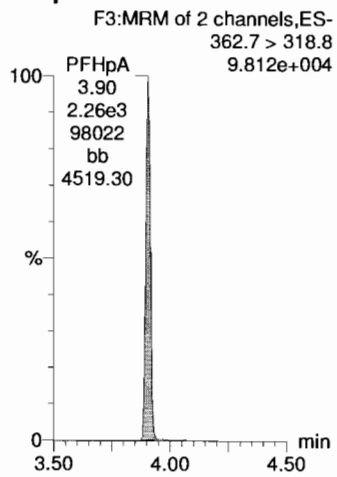

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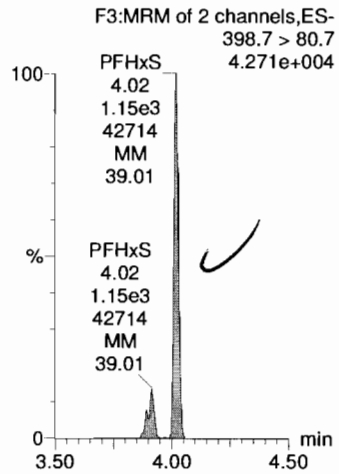

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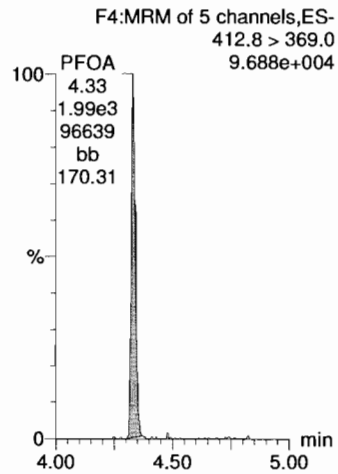

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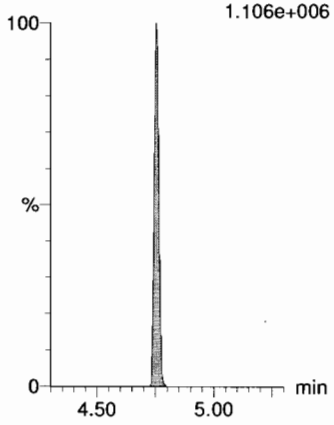

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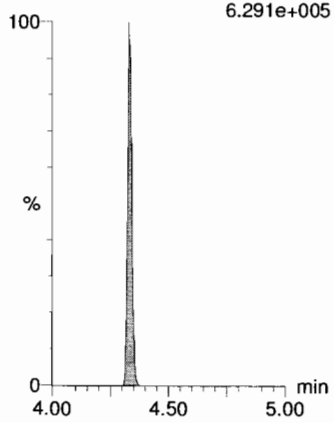

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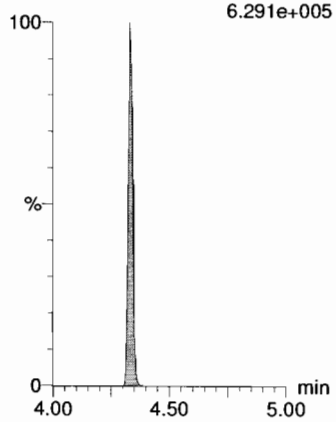

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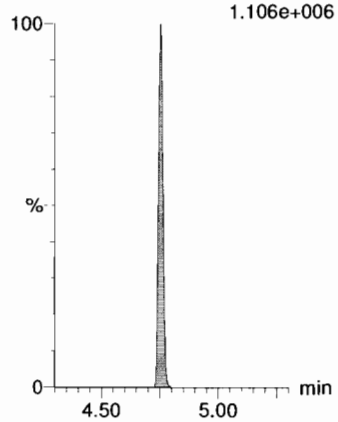

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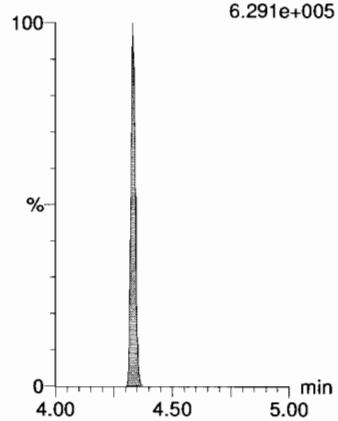

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-2.qld

Last Altered: Monday, August 27, 2018 16:43:41 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:56:07 Pacific Daylight Time

Name: 180827G1_2, Date: 27-Aug-2018, Time: 08:58:46, ID: ST180827G1-1 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

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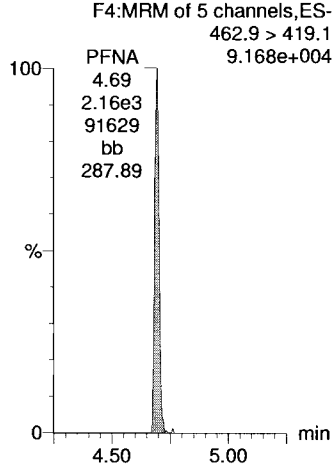

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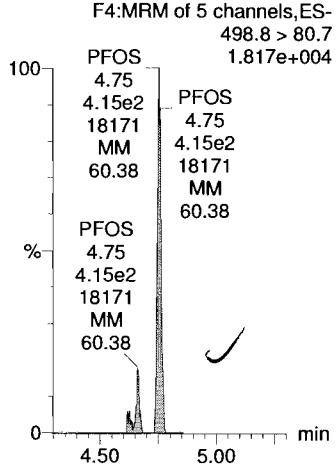

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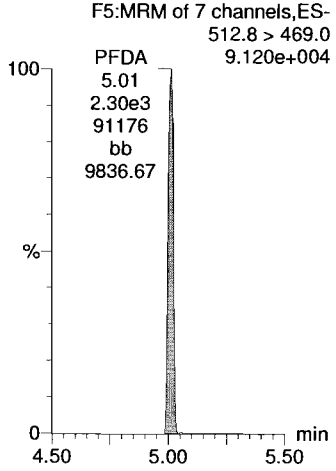

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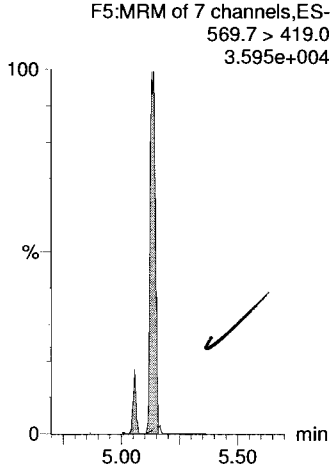

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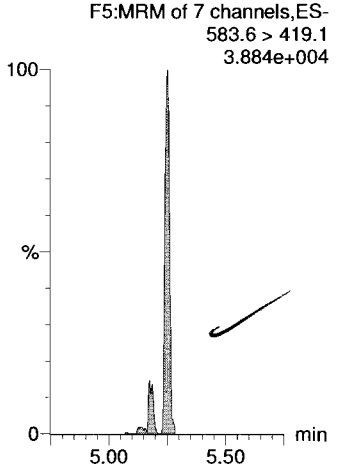

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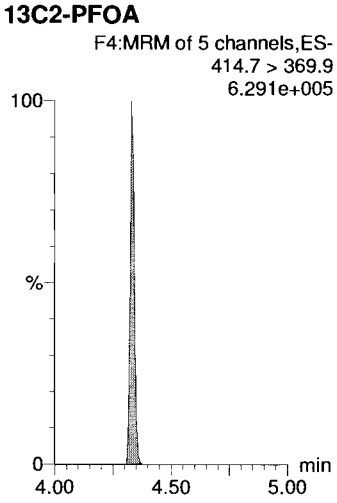

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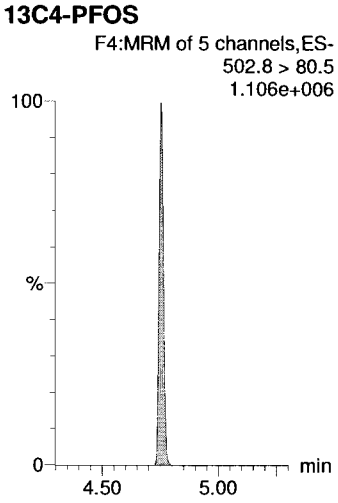

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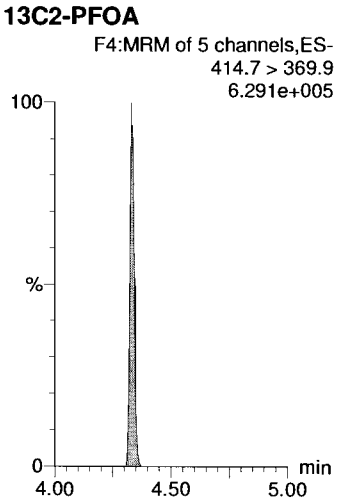

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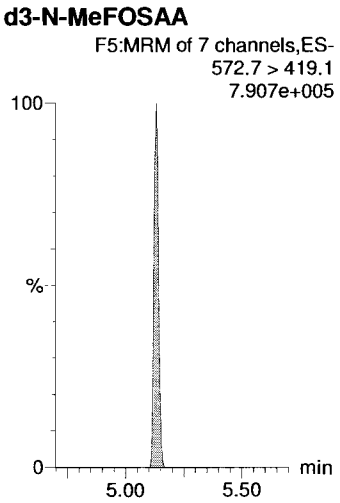

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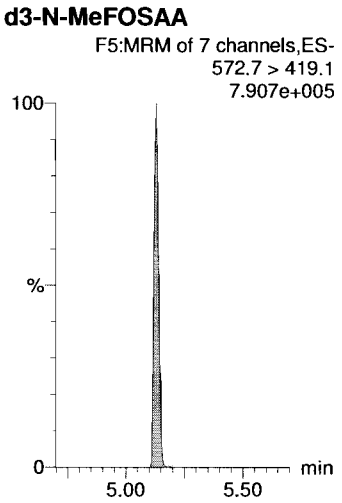

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-2.qld

Last Altered: Monday, August 27, 2018 16:43:41 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:56:07 Pacific Daylight Time

Name: 180827G1_2, Date: 27-Aug-2018, Time: 08:58:46, ID: ST180827G1-1 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

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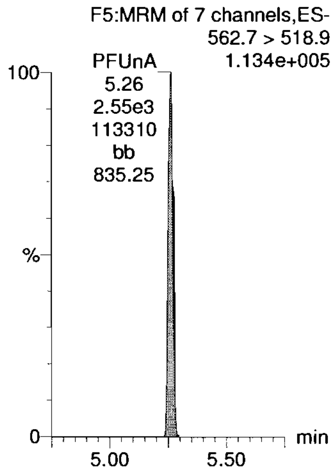

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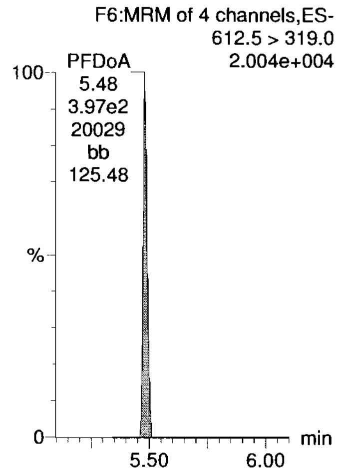

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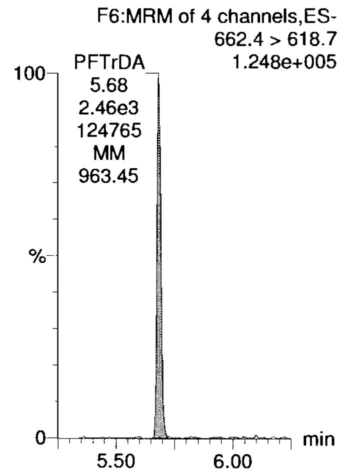
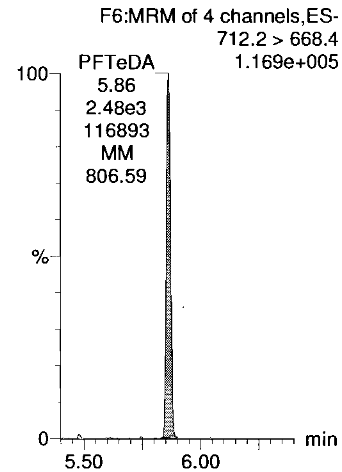


PFTeDA



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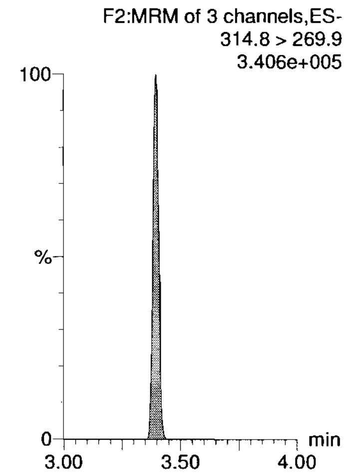

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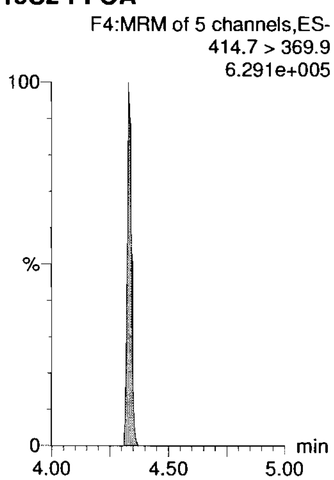

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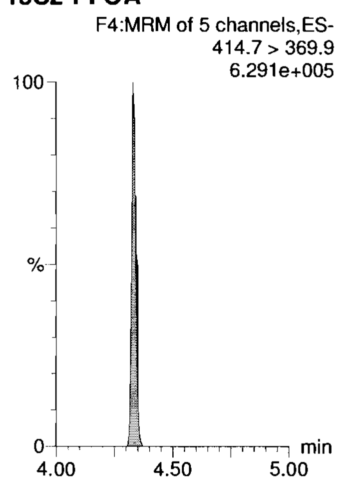

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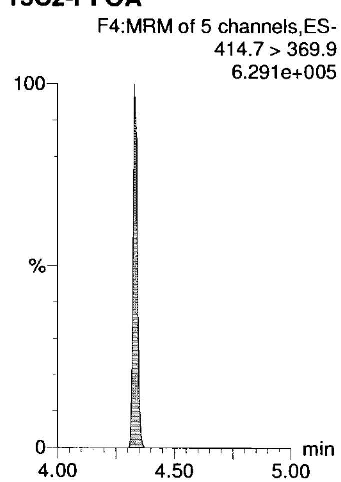

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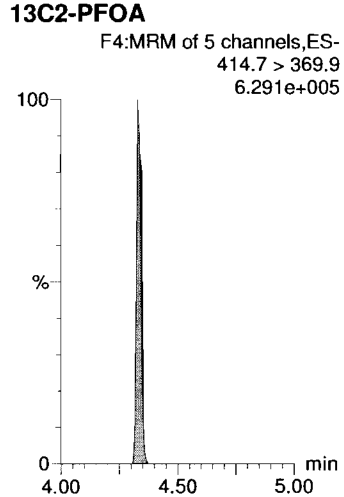

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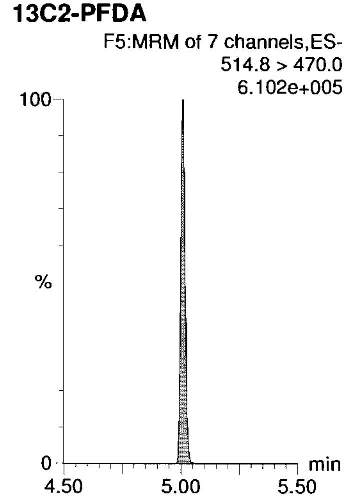

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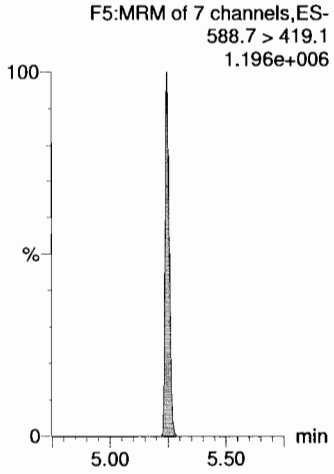
Printed: Tuesday, August 28, 2018 08:56:07 Pacific Daylight Time

Name: 180827G1_2, Date: 27-Aug-2018, Time: 08:58:46, ID: ST180827G1-1 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

d5-N-EtFOSAA



Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-22.qld

Last Altered: Monday, August 27, 2018 16:45:28 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:45:59 Pacific Daylight Time

MJT 8/28/18

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_22, Date: 27-Aug-2018, Time: 13:26:52, ID: ST180827G1-2 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	4.43e3	2.27e4	1.00		3.01	3.02	5.60	8.71	98.5
2	2	PFHxA	312.7 > 268.8	9.92e3	1.27e4	1.00		3.38	3.40	7.81	11.0	110.2
3	3	PFHpA	362.7 > 318.8	1.04e4	1.27e4	1.00		3.92	3.90	8.20	10.5	105.3
4	4	PFHxS	398.7 > 80.7	5.69e3	2.27e4	1.00		4.05	4.02	7.20	8.70	95.4
5	5	PFOA	412.8 > 369.0	8.52e3	1.27e4	1.00		4.33	4.33	6.71	9.18	91.8
6	6	PFNA	462.9 > 419.1	1.08e4	1.27e4	1.00		4.68	4.69	8.49	9.90	99.0
7	7	PFOS	498.8 >80.7	2.19e3	2.27e4	1.00		4.76	4.75	2.77	8.88	96.1
8	8	PFDA	512.8 > 469.0	1.13e4	1.27e4	1.00		4.97	5.01	8.93	10.1	100.6
9	9	N-MeFOSAA	569.7 > 419.0	5.68e3	1.82e4	1.00		5.14	5.14	12.5	9.91	99.1
10	10	N-EtFOSAA	583.6 >419.1	5.20e3	1.82e4	1.00		5.26	5.25	11.4	9.91	99.1
11	11	PFUnA	562.7 > 518.9	1.27e4	1.27e4	1.00		5.23	5.26	9.99	10.3	102.6
12	12	PFDoA	612.5 > 319.0	1.89e3	1.27e4	1.00		5.44	5.48	1.49	9.68	96.8
13	13	PFTrDA	662.4 > 618.7	1.09e4	1.27e4	1.00		5.64	5.68	8.56	8.76	87.6
14	14	PFTeDA	712.2>668.4	1.14e4	1.27e4	1.00		5.83	5.86	8.96	8.75	87.5
15	15	13C2-PFHxA	314.8 > 269.9	9.70e3	1.27e4	1.00	0.651	3.47	3.40	7.63	11.7	117.2
16	16	13C2-PFDA	514.8 > 470.0	1.29e4	1.27e4	1.00	1.028	4.94	5.01	10.2	9.88	98.8
17	17	d5-N-EtFOSAA	588.7> 419.1	2.57e4	1.82e4	1.00	1.457	5.13	5.25	56.5	38.8	97.0
18	18	13C2-PFOA	414.7 > 369.9	1.27e4	1.27e4	1.00	1.000	4.45	4.33	10.0	10.0	100.0
19	19	13C4-PFOS	502.8>80.5	2.27e4	2.27e4	1.00	1.000	4.84	4.75	28.7	28.7	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	1.82e4	1.82e4	1.00	1.000	5.21	5.13	40.0	40.0	100.0

CdH 8/28/18

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Compound name: PFBS

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2	2	180827G1_2	ST180827G1-1 PFC CS-1 537 18H2424	27-Aug-18	08:58:46
3	3	180827G1_3	IPA	27-Aug-18	09:11:50
4	4	180827G1_4	B8H0168-BLK1 LRB 0.25	27-Aug-18	09:24:58
5	5	180827G1_5	B8H0168-BS1 LFB 0.25	27-Aug-18	09:37:56
6	6	180827G1_6	1802572-01 WR1808201230CKA 0.239...	27-Aug-18	09:50:57
7	7	180827G1_7	1802572-02 WR1808201250CKA 0.254...	27-Aug-18	10:03:52
8	8	180827G1_8	B8H0182-BLK1 LRB 0.25	27-Aug-18	10:17:40
9	9	180827G1_9	B8H0182-BS1 LFB 0.25	27-Aug-18	10:30:03
10	10	180827G1_10	B8H0182-MS1 LFSM 0.24886	27-Aug-18	10:43:09
11	11	180827G1_11	B8H0182-MSD1 LFSMD 0.2513	27-Aug-18	10:56:15
12	12	180827G1_12	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	11:09:21
13	13	180827G1_13	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	11:30:21
14	14	180827G1_14	1802610-03 WR1808211135LEM 0.264...	27-Aug-18	11:42:24
15	15	180827G1_15	1802610-04 WT1808211250LEM 0.263...	27-Aug-18	11:55:22
16	16	180827G1_16	1802610-05 FB1808211250LEM 0.26563	27-Aug-18	12:08:27
17	17	180827G1_17	1802610-06 WT1808211345LEM 0.259...	27-Aug-18	12:21:32
18	18	180827G1_18	1802610-07 WR1808211410LEM 0.252...	27-Aug-18	12:34:31
19	19	180827G1_19	1802610-08 WR1808211430LEM 0.266...	27-Aug-18	12:47:35
20	20	180827G1_20	1802610-09 WR1808211440LEM 0.265...	27-Aug-18	13:00:42
21	21	180827G1_21	IPA	27-Aug-18	13:13:44
22	22	180827G1_22	ST180827G1-2 PFC CS1 537 18H2426	27-Aug-18	13:26:52
23	23	180827G1_23	IPA	27-Aug-18	13:39:55
24	24	180827G1_24	1802610-10 WR1808211500LEM 0.259	27-Aug-18	13:53:01
25	25	180827G1_25	1802610-11 WT1808211520LEM 0.264...	27-Aug-18	14:08:10
26	26	180827G1_26	1802610-12 WT1808211520LEM-FD 0....	27-Aug-18	14:20:13
27	27	180827G1_27	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	14:33:11
28	28	180827G1_28	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	14:46:08
29	29	180827G1_29	1802614-02 CH-AT-1FB199-0818 0.250...	27-Aug-18	14:59:07
30	30	180827G1_30	1802614-03 CH-AT-1RW200-0818 0.24...	27-Aug-18	15:12:19
31	31	180827G1_31	1802614-04 CH-AT-1FB200-0818 0.2552	27-Aug-18	15:25:17
32	32	180827G1_32	1802614-05 CH-AT-1RW201-0818 0.24...	27-Aug-18	15:38:24

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

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34	34	180827G1_34	ST180827G1-3 PFC CS3 537 18H2428	27-Aug-18	16:04:25
35	35	180827G1_35	IPA	27-Aug-18	16:17:29
36	36	180827G1_36	1802614-06 CH-AT-1FB201-0818 0.248...	27-Aug-18	16:30:39
37	37	180827G1_37	1802610-01@10X WT1808211030LEM...	27-Aug-18	16:43:37
38	38	180827G1_38	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	16:56:34
39	39	180827G1_39	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	17:09:31
40	40	180827G1_40	B8H0020-BS1 LFB 0.25	27-Aug-18	17:22:32
41	41	180827G1_41	1802133-01 GWNT1807301100GSC 0....	27-Aug-18	17:35:36
42	42	180827G1_42	1802136-01 GWEF1807301145GSC 0....	27-Aug-18	17:48:31
43	43	180827G1_43	1802139-01 GWEF1807301215GSC 0....	27-Aug-18	18:01:39
44	44	180827G1_44	B8H0193-BLK1 LRB 0.25	27-Aug-18	18:14:34
45	45	180827G1_45	B8H0193-BS1 LFB 0.25	27-Aug-18	18:27:39
46	46	180827G1_46	B8H0193-BS2 LFB 0.25	27-Aug-18	18:40:47
47	47	180827G1_47	B8H0193-BS3 LFB 0.25	27-Aug-18	18:53:46
48	48	180827G1_48	B8H0193-BS4 LFB 0.25	27-Aug-18	19:06:44
49	49	180827G1_49	B8H0193-BS5 LFB 0.25	27-Aug-18	19:19:41
50	50	180827G1_50	B8H0193-BS6 LFB 0.25	27-Aug-18	19:32:39
51	51	180827G1_51	B8H0193-BS7 LFB 0.25	27-Aug-18	19:45:36
52	52	180827G1_52	B8H0192-BLK1 LRB 0.25	27-Aug-18	19:58:34
53	53	180827G1_53	B8H0192-BS1 LFB 0.25	27-Aug-18	20:11:41
54	54	180827G1_54	B8H0192-BS2 LFB 0.25	27-Aug-18	20:24:46
55	55	180827G1_55	B8H0192-BS3 LFB 0.25	27-Aug-18	20:37:47
56	56	180827G1_56	B8H0192-BS4 LFB 0.25	27-Aug-18	20:50:45
57	57	180827G1_57	B8H0192-BS5 LFB 0.25	27-Aug-18	21:03:42
58	58	180827G1_58	B8H0192-BS6 LFB 0.25	27-Aug-18	21:16:39
59	59	180827G1_59	B8H0192-BS7 LFB 0.25	27-Aug-18	21:29:36
60	60	180827G1_60	B8H0004-BLK1 LRB 0.25	27-Aug-18	21:42:33
61	61	180827G1_61	B8H0004-BS1 LFB 0.25	27-Aug-18	21:55:30
62	62	180827G1_62	B8H0004-MS1 LFSM 0.23784	27-Aug-18	22:08:28
63	63	180827G1_63	B8H0004-MSD1 LFSMD 0.23642	27-Aug-18	22:21:35
64	64	180827G1_64	1802033-01 GWEF1807250915KER 0....	27-Aug-18	22:34:39
65	65	180827G1_65	1802049-01 WR1807250940JTM 0.243...	27-Aug-18	22:47:45
66	66	180827G1_66	1802050-01 WR1807251030JTM 0.243...	27-Aug-18	23:00:51
67	67	180827G1_67	IPA	27-Aug-18	23:13:52
68	68	180827G1_68	ST180827G1-4 PFC CS-1 537 18H2424	27-Aug-18	23:26:52

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

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71	71 180827G1_71	1802052-01 WR1807251145JTM 0.244...	28-Aug-18	00:05:56
72	72 180827G1_72	1802053-01 WR1807251210JTM 0.239...	28-Aug-18	00:18:54
73	73 180827G1_73	1802054-01 WR1807251300JTM 0.245...	28-Aug-18	00:31:57
74	74 180827G1_74	1802081-01 GWIN1807260910KER 0.2...	28-Aug-18	00:44:50
75	75 180827G1_75	1802082-01 GWEF1807261020KER 0....	28-Aug-18	00:57:55
76	76 180827G1_76	1802083-01 GWNT1807261130KER 0....	28-Aug-18	01:11:01
77	77 180827G1_77	1802084-02 SWEF1807261415KER 0....	28-Aug-18	01:24:06
78	78 180827G1_78	1802085-01 SWEF1807260900GSC 0....	28-Aug-18	01:37:07
79	79 180827G1_79	1802103-01 GWEF1807270915KER 0....	28-Aug-18	01:50:05
80	80 180827G1_80	IPA	28-Aug-18	02:03:03
81	81 180827G1_81	ST180827G1-5 PFC CS1 537 18H2426	28-Aug-18	02:16:02
82	82 180827G1_82	IPA	28-Aug-18	02:29:06
83	83 180827G1_83	1802103-02 GWEF1807270950KER 0....	28-Aug-18	02:42:12
84	84 180827G1_84	1802105-01 GWNT1807271045KER 0....	28-Aug-18	02:55:15
85	85 180827G1_85	1802105-02 GWNT1807271100KER 0....	28-Aug-18	03:08:12
86	86 180827G1_86	1802105-03 GWNT1807271120KER-F...	28-Aug-18	03:21:19
87	87 180827G1_87	1802105-04 FB1807271130KER 0.2444	28-Aug-18	03:34:25
88	88 180827G1_88	1802106-01 GWNT1807271230KER 0....	28-Aug-18	03:47:30
89	89 180827G1_89	MIKE COHEN QC1	28-Aug-18	04:00:31
90	90 180827G1_90	MIKE COHEN QC2	28-Aug-18	04:13:29
91	91 180827G1_91	IPA	28-Aug-18	04:26:26
92	92 180827G1_92	ST180827G1-6 PFC CS3 537 18H2428	28-Aug-18	04:39:26
93	93 180827G1_93	IPA	28-Aug-18	04:52:30

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-22.qld

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Printed: Monday, August 27, 2018 16:45:59 Pacific Daylight Time

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Name: 180827G1_22, Date: 27-Aug-2018, Time: 13:26:52, ID: ST180827G1-2 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

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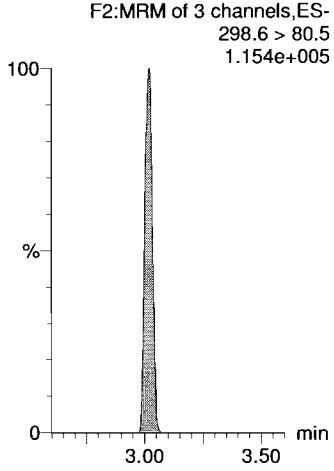

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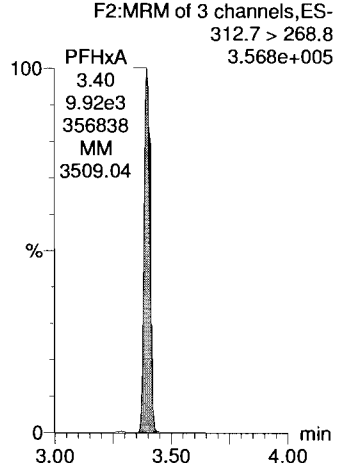

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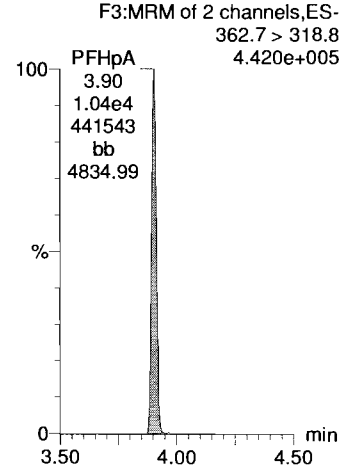

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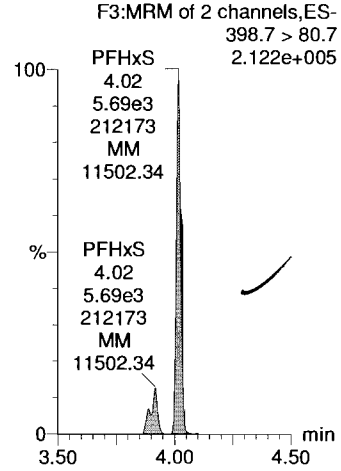

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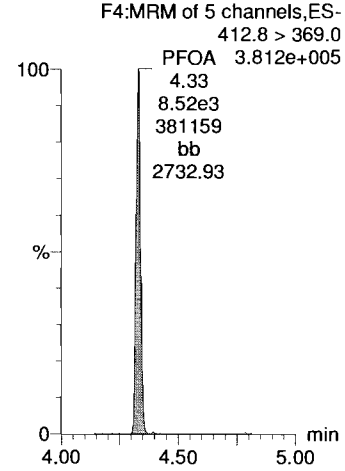

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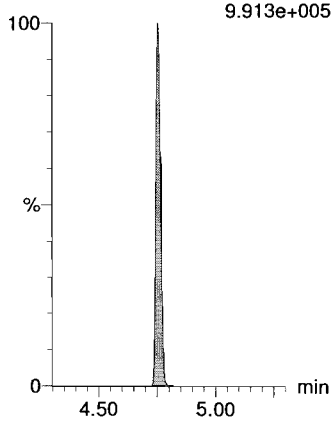

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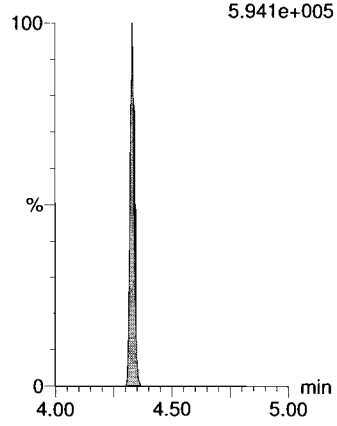

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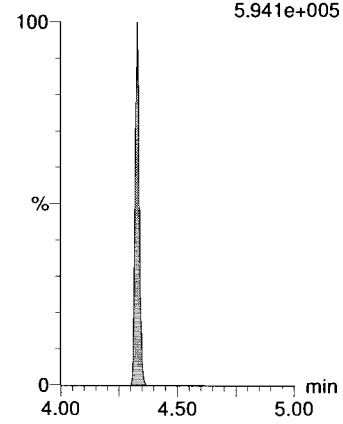

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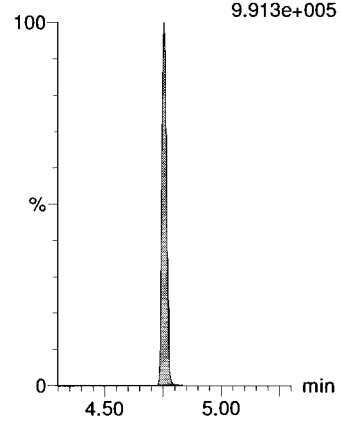

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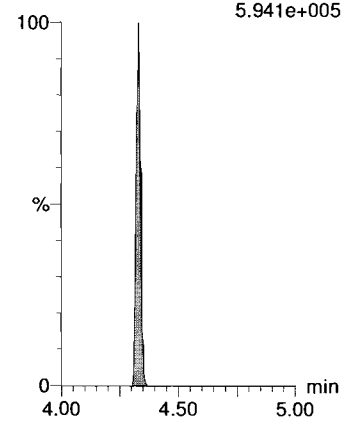

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Printed: Monday, August 27, 2018 16:45:59 Pacific Daylight Time

Name: 180827G1_22, Date: 27-Aug-2018, Time: 13:26:52, ID: ST180827G1-2 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

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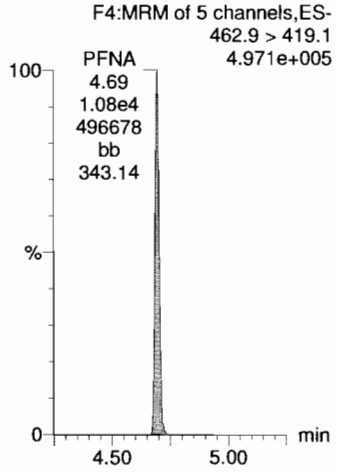

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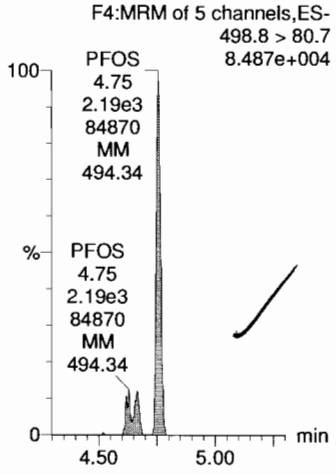

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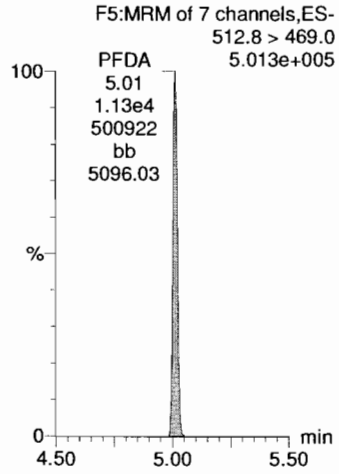

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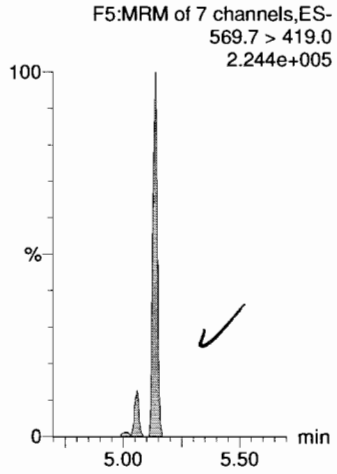

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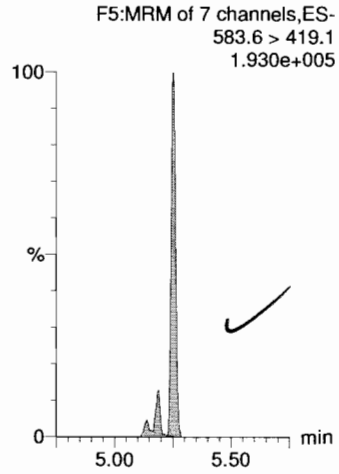

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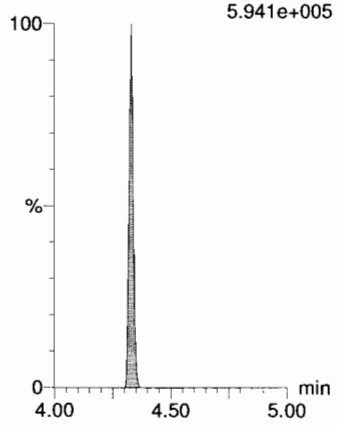

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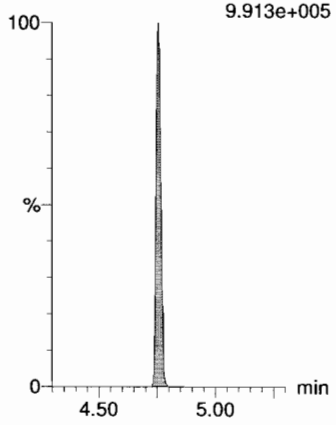

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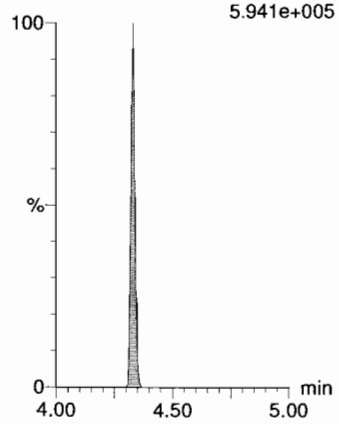

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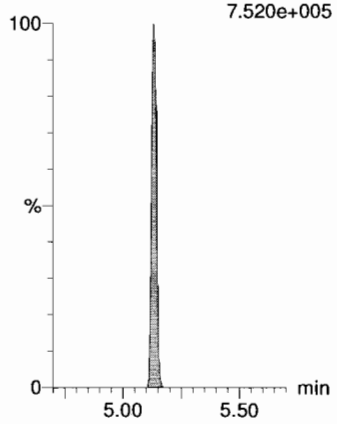

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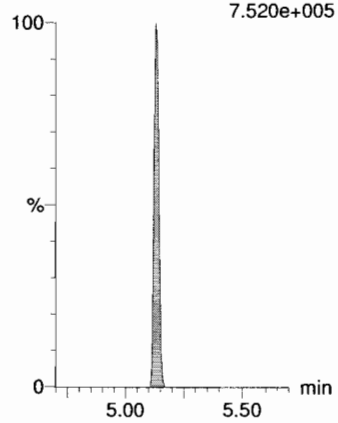

Vista Analytical Laboratory

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Printed: Monday, August 27, 2018 16:45:59 Pacific Daylight Time

Name: 180827G1_22, Date: 27-Aug-2018, Time: 13:26:52, ID: ST180827G1-2 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

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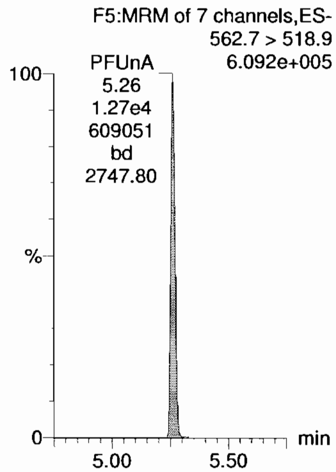

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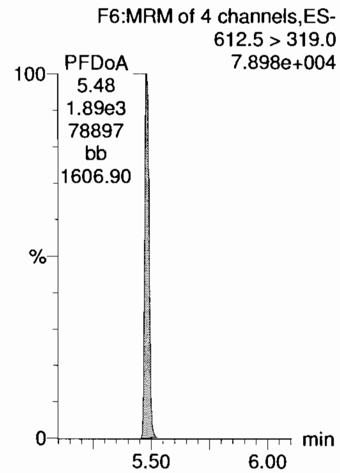

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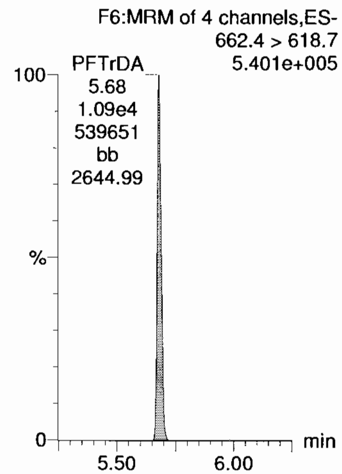

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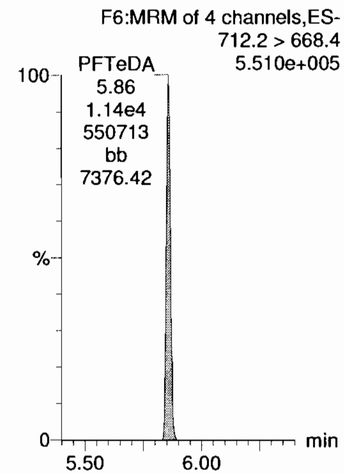

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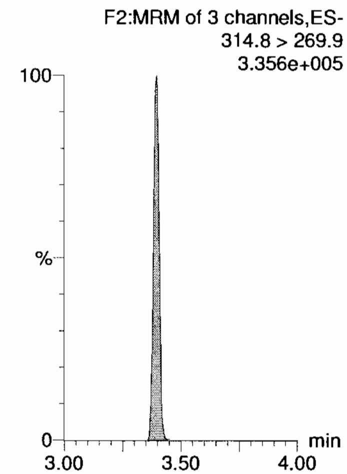

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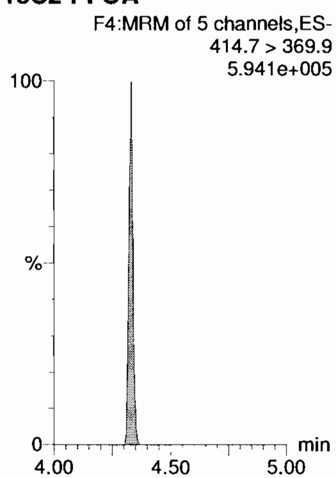

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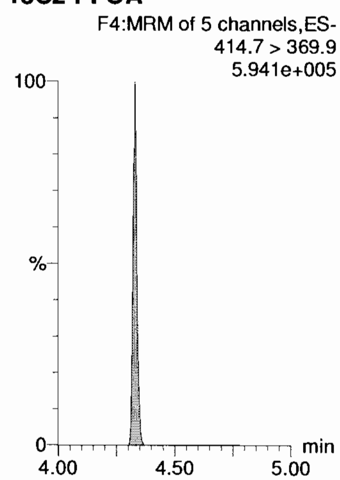

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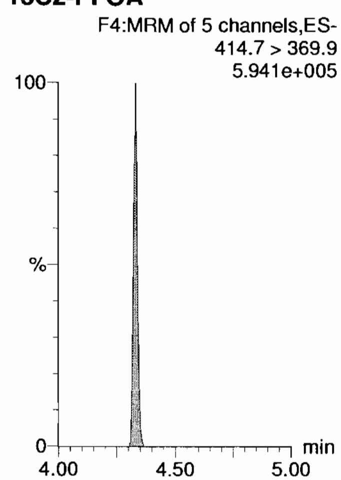

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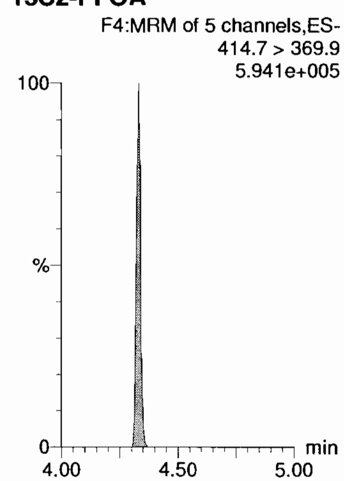

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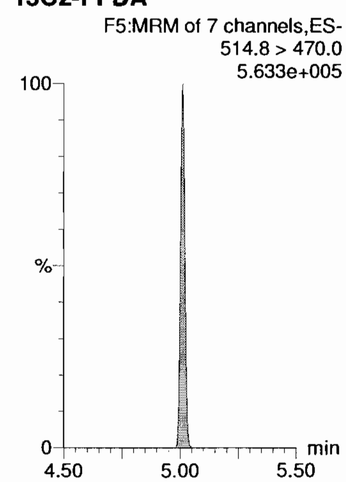

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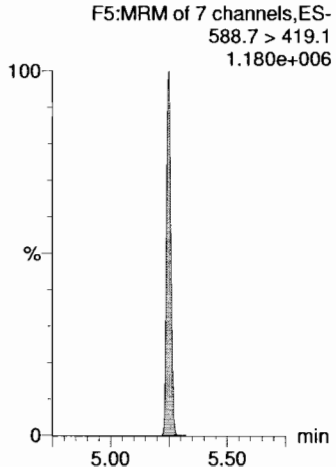

Vista Analytical Laboratory

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Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

MJT 8/28/18

Name: 180827G1_34, Date: 27-Aug-2018, Time: 16:04:25, ID: ST180827G1-3 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	2.16e4	2.11e4	1.00		3.01	3.02	29.5	45.8	103.6
2	2	PFHxA	312.7 > 268.8	4.52e4	1.16e4	1.00		3.38	3.40	38.8	54.8	109.6
3	3	PFHpA	362.7 > 318.8	4.92e4	1.16e4	1.00		3.92	3.90	42.3	54.3	108.7
4	4	PFHxS	398.7 > 80.7	2.71e4	2.11e4	1.00		4.05	4.02	36.8	44.5	97.9
5	5	PFOA	412.8 > 369.0	4.46e4	1.16e4	1.00		4.34	4.33	38.4	52.5	105.1
6	6	PFNA	462.9 > 419.1	5.39e4	1.16e4	1.00		4.68	4.69	46.3	54.1	108.1
7	7	PFOS	498.8 >80.7	1.16e4	2.11e4	1.00		4.76	4.75	15.8	46.2	100.1
8	8	PFDA	512.8 > 469.0	5.62e4	1.16e4	1.00		4.97	5.00	48.4	54.5	108.9
9	9	N-MeFOSAA	569.7 > 419.0	2.77e4	1.96e4	1.00		5.13	5.13	56.3	44.6	89.2
10	10	N-EtFOSAA	583.6 >419.1	2.67e4	1.96e4	1.00		5.25	5.25	54.3	47.1	94.1
11	11	PFUnA	562.7 > 518.9	6.03e4	1.16e4	1.00		5.23	5.25	51.9	53.3	106.6
12	12	PFDoA	612.5 > 319.0	9.51e3	1.16e4	1.00		5.44	5.48	8.18	51.7	103.4
13	13	PFTrDA	662.4 > 618.7	5.40e4	1.16e4	1.00		5.64	5.68	46.4	47.5	94.9
14	14	PFTeDA	712.2>668.4	5.78e4	1.16e4	1.00		5.83	5.86	49.8	48.6	97.1
15	15	13C2-PFHxA	314.8 > 269.9	9.12e3	1.16e4	1.00	0.651	3.48	3.39	7.85	12.1	120.5
16	16	13C2-PFDA	514.8 > 470.0	1.24e4	1.16e4	1.00	1.028	4.94	5.00	10.6	10.4	103.6
17	17	d5-N-EtFOSAA	588.7> 419.1	2.43e4	1.96e4	1.00	1.457	5.12	5.24	49.4	33.9	84.8
18	18	13C2-PFOA	414.7 > 369.9	1.16e4	1.16e4	1.00	1.000	4.45	4.33	10.0	10.0	100.0
19	19	13C4-PFOS	502.8>80.5	2.11e4	2.11e4	1.00	1.000	4.84	4.75	28.7	28.7	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	1.96e4	1.96e4	1.00	1.000	5.21	5.12	40.0	40.0	100.0

CGH 8/28/18

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Compound name: PFBS

	# Name	ID	Acq.Date	Acq.Time
1	1 180827G1_1	IPA	27-Aug-18	08:46:40
2	2 180827G1_2	ST180827G1-1 PFC CS-1 537 18H2424	27-Aug-18	08:58:46
3	3 180827G1_3	IPA	27-Aug-18	09:11:50
4	4 180827G1_4	B8H0168-BLK1 LRB 0.25	27-Aug-18	09:24:58
5	5 180827G1_5	B8H0168-BS1 LFB 0.25	27-Aug-18	09:37:56
6	6 180827G1_6	1802572-01 WR1808201230CKA 0.239...	27-Aug-18	09:50:57
7	7 180827G1_7	1802572-02 WR1808201250CKA 0.254...	27-Aug-18	10:03:52
8	8 180827G1_8	B8H0182-BLK1 LRB 0.25	27-Aug-18	10:17:40
9	9 180827G1_9	B8H0182-BS1 LFB 0.25	27-Aug-18	10:30:03
10	10 180827G1_10	B8H0182-MS1 LFSM 0.24886	27-Aug-18	10:43:09
11	11 180827G1_11	B8H0182-MSD1 LFSMD 0.2513	27-Aug-18	10:56:15
12	12 180827G1_12	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	11:09:21
13	13 180827G1_13	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	11:30:21
14	14 180827G1_14	1802610-03 WR1808211135LEM 0.264...	27-Aug-18	11:42:24
15	15 180827G1_15	1802610-04 WT1808211250LEM 0.263...	27-Aug-18	11:55:22
16	16 180827G1_16	1802610-05 FB1808211250LEM 0.26563	27-Aug-18	12:08:27
17	17 180827G1_17	1802610-06 WT1808211345LEM 0.259...	27-Aug-18	12:21:32
18	18 180827G1_18	1802610-07 WR1808211410LEM 0.252...	27-Aug-18	12:34:31
19	19 180827G1_19	1802610-08 WR1808211430LEM 0.266...	27-Aug-18	12:47:35
20	20 180827G1_20	1802610-09 WR1808211440LEM 0.265...	27-Aug-18	13:00:42
21	21 180827G1_21	IPA	27-Aug-18	13:13:44
22	22 180827G1_22	ST180827G1-2 PFC CS1 537 18H2426	27-Aug-18	13:26:52
23	23 180827G1_23	IPA	27-Aug-18	13:39:55
24	24 180827G1_24	1802610-10 WR1808211500LEM 0.259	27-Aug-18	13:53:01
25	25 180827G1_25	1802610-11 WT1808211520LEM 0.264...	27-Aug-18	14:08:10
26	26 180827G1_26	1802610-12 WT1808211520LEM-FD 0....	27-Aug-18	14:20:13
27	27 180827G1_27	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	14:33:11
28	28 180827G1_28	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	14:46:08
29	29 180827G1_29	1802614-02 CH-AT-1FB199-0818 0.250...	27-Aug-18	14:59:07
30	30 180827G1_30	1802614-03 CH-AT-1RW200-0818 0.24...	27-Aug-18	15:12:19
31	31 180827G1_31	1802614-04 CH-AT-1FB200-0818 0.2552	27-Aug-18	15:25:17
32	32 180827G1_32	1802614-05 CH-AT-1RW201-0818 0.24...	27-Aug-18	15:38:24

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

	#	Name	ID	Acq.Date	Acq.Time
33	33	180827G1_33	IPA	27-Aug-18	15:51:24
34	34	180827G1_34	ST180827G1-3 PFC CS3 537 18H2428	27-Aug-18	16:04:25
35	35	180827G1_35	IPA	27-Aug-18	16:17:29
36	36	180827G1_36	1802614-06 CH-AT-1FB201-0818 0.248...	27-Aug-18	16:30:39
37	37	180827G1_37	1802610-01@10X WT1808211030LEM...	27-Aug-18	16:43:37
38	38	180827G1_38	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	16:56:34
39	39	180827G1_39	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	17:09:31
40	40	180827G1_40	B8H0020-BS1 LFB 0.25	27-Aug-18	17:22:32
41	41	180827G1_41	1802133-01 GWNT1807301100GSC 0....	27-Aug-18	17:35:36
42	42	180827G1_42	1802136-01 GWEF1807301145GSC 0....	27-Aug-18	17:48:31
43	43	180827G1_43	1802139-01 GWEF1807301215GSC 0....	27-Aug-18	18:01:39
44	44	180827G1_44	B8H0193-BLK1 LRB 0.25	27-Aug-18	18:14:34
45	45	180827G1_45	B8H0193-BS1 LFB 0.25	27-Aug-18	18:27:39
46	46	180827G1_46	B8H0193-BS2 LFB 0.25	27-Aug-18	18:40:47
47	47	180827G1_47	B8H0193-BS3 LFB 0.25	27-Aug-18	18:53:46
48	48	180827G1_48	B8H0193-BS4 LFB 0.25	27-Aug-18	19:06:44
49	49	180827G1_49	B8H0193-BS5 LFB 0.25	27-Aug-18	19:19:41
50	50	180827G1_50	B8H0193-BS6 LFB 0.25	27-Aug-18	19:32:39
51	51	180827G1_51	B8H0193-BS7 LFB 0.25	27-Aug-18	19:45:36
52	52	180827G1_52	B8H0192-BLK1 LRB 0.25	27-Aug-18	19:58:34
53	53	180827G1_53	B8H0192-BS1 LFB 0.25	27-Aug-18	20:11:41
54	54	180827G1_54	B8H0192-BS2 LFB 0.25	27-Aug-18	20:24:46
55	55	180827G1_55	B8H0192-BS3 LFB 0.25	27-Aug-18	20:37:47
56	56	180827G1_56	B8H0192-BS4 LFB 0.25	27-Aug-18	20:50:45
57	57	180827G1_57	B8H0192-BS5 LFB 0.25	27-Aug-18	21:03:42
58	58	180827G1_58	B8H0192-BS6 LFB 0.25	27-Aug-18	21:16:39
59	59	180827G1_59	B8H0192-BS7 LFB 0.25	27-Aug-18	21:29:36
60	60	180827G1_60	B8H0004-BLK1 LRB 0.25	27-Aug-18	21:42:33
61	61	180827G1_61	B8H0004-BS1 LFB 0.25	27-Aug-18	21:55:30
62	62	180827G1_62	B8H0004-MS1 LFSM 0.23784	27-Aug-18	22:08:28
63	63	180827G1_63	B8H0004-MSD1 LFSMD 0.23642	27-Aug-18	22:21:35
64	64	180827G1_64	1802033-01 GWEF1807250915KER 0....	27-Aug-18	22:34:39
65	65	180827G1_65	1802049-01 WR1807250940JTM 0.243...	27-Aug-18	22:47:45
66	66	180827G1_66	1802050-01 WR1807251030JTM 0.243...	27-Aug-18	23:00:51
67	67	180827G1_67	IPA	27-Aug-18	23:13:52
68	68	180827G1_68	ST180827G1-4 PFC CS-1 537 18H2424	27-Aug-18	23:26:52

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

	# Name	ID	Acq.Date	Acq.Time
69	69 180827G1_69	IPA	27-Aug-18	23:39:55
70	70 180827G1_70	1802051-01 WR1807251120JTM 0.249...	27-Aug-18	23:52:54
71	71 180827G1_71	1802052-01 WR1807251145JTM 0.244...	28-Aug-18	00:05:56
72	72 180827G1_72	1802053-01 WR1807251210JTM 0.239...	28-Aug-18	00:18:54
73	73 180827G1_73	1802054-01 WR1807251300JTM 0.245...	28-Aug-18	00:31:57
74	74 180827G1_74	1802081-01 GWIN1807260910KER 0.2...	28-Aug-18	00:44:50
75	75 180827G1_75	1802082-01 GWEF1807261020KER 0....	28-Aug-18	00:57:55
76	76 180827G1_76	1802083-01 GWNT1807261130KER 0....	28-Aug-18	01:11:01
77	77 180827G1_77	1802084-02 SWEF1807261415KER 0....	28-Aug-18	01:24:06
78	78 180827G1_78	1802085-01 SWEF1807260900GSC 0....	28-Aug-18	01:37:07
79	79 180827G1_79	1802103-01 GWEF1807270915KER 0....	28-Aug-18	01:50:05
80	80 180827G1_80	IPA	28-Aug-18	02:03:03
81	81 180827G1_81	ST180827G1-5 PFC CS1 537 18H2426	28-Aug-18	02:16:02
82	82 180827G1_82	IPA	28-Aug-18	02:29:06
83	83 180827G1_83	1802103-02 GWEF1807270950KER 0....	28-Aug-18	02:42:12
84	84 180827G1_84	1802105-01 GWNT1807271045KER 0....	28-Aug-18	02:55:15
85	85 180827G1_85	1802105-02 GWNT1807271100KER 0....	28-Aug-18	03:08:12
86	86 180827G1_86	1802105-03 GWNT1807271120KER-F...	28-Aug-18	03:21:19
87	87 180827G1_87	1802105-04 FB1807271130KER 0.2444	28-Aug-18	03:34:25
88	88 180827G1_88	1802106-01 GWNT1807271230KER 0....	28-Aug-18	03:47:30
89	89 180827G1_89	MIKE COHEN QC1	28-Aug-18	04:00:31
90	90 180827G1_90	MIKE COHEN QC2	28-Aug-18	04:13:29
91	91 180827G1_91	IPA	28-Aug-18	04:26:26
92	92 180827G1_92	ST180827G1-6 PFC CS3 537 18H2428	28-Aug-18	04:39:26
93	93 180827G1_93	IPA	28-Aug-18	04:52:30

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-34.qld

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Printed: Monday, August 27, 2018 16:35:23 Pacific Daylight Time

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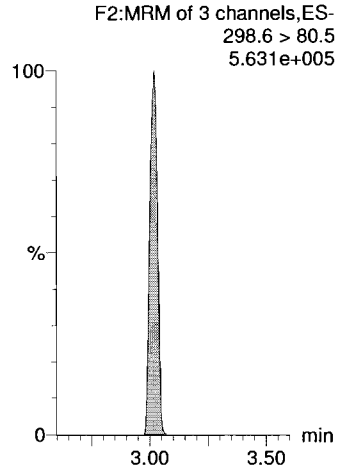
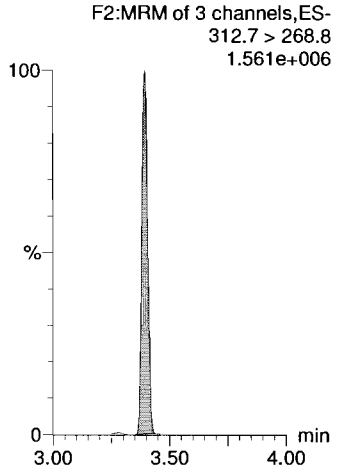
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_34, Date: 27-Aug-2018, Time: 16:04:25, ID: ST180827G1-3 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

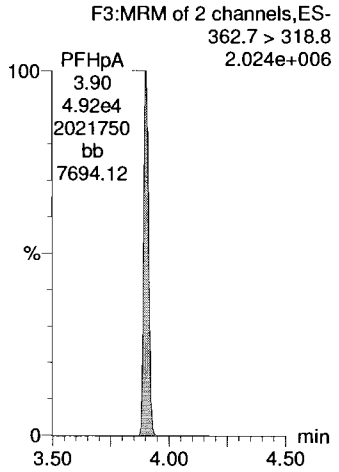
PFBS



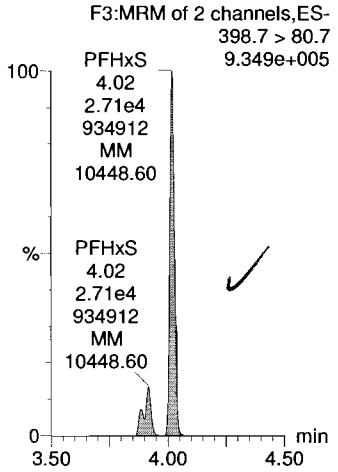
PFHxA



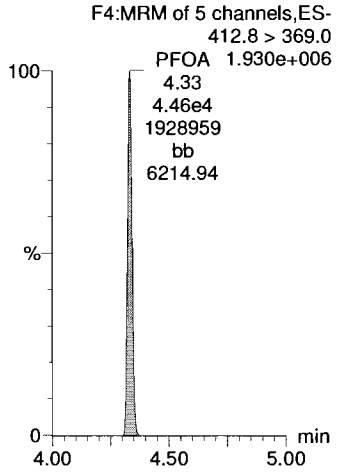
PFHpA



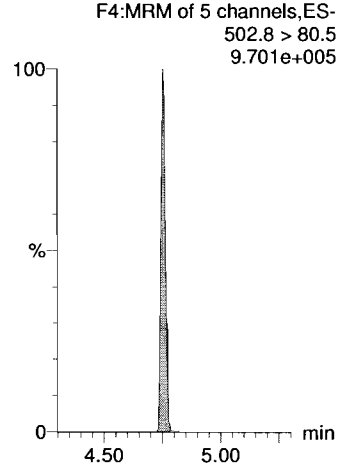
PFHxS



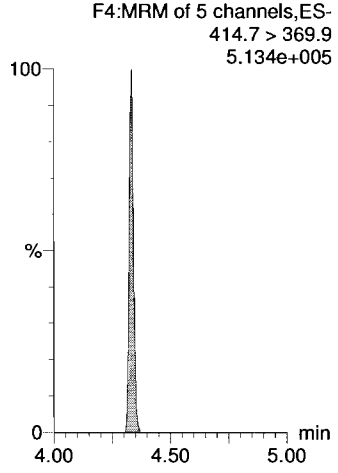
PFOA



13C4-PFOS



13C2-PFOA



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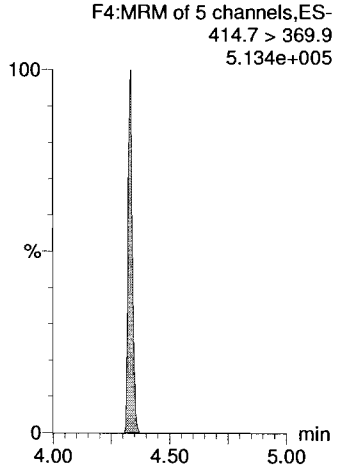

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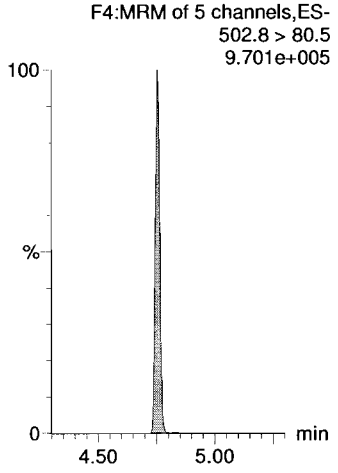

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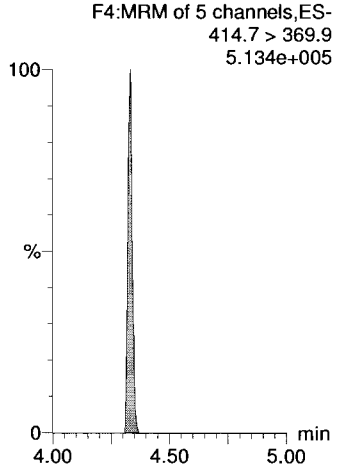

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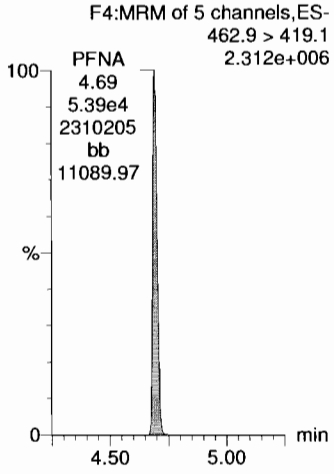
Last Altered: Monday, August 27, 2018 16:34:57 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:35:23 Pacific Daylight Time

Name: 180827G1_34, Date: 27-Aug-2018, Time: 16:04:25, ID: ST180827G1-3 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

PFNA



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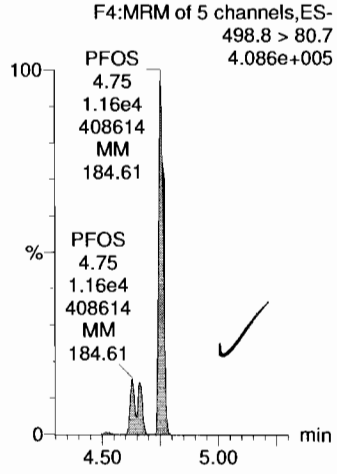
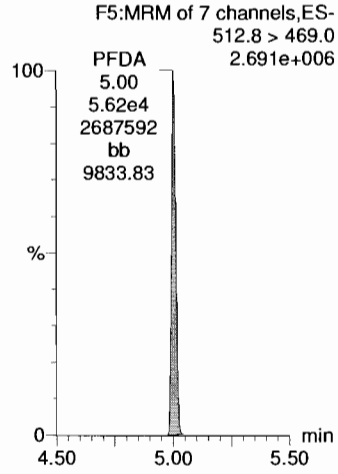


PFDA



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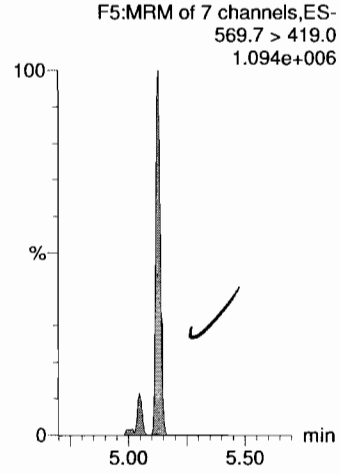

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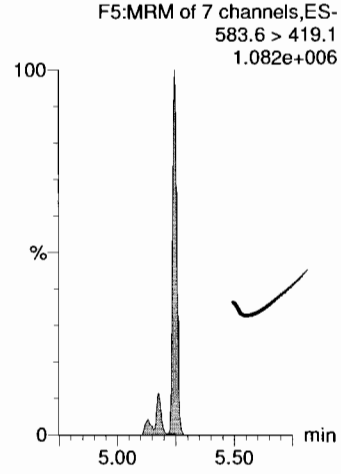

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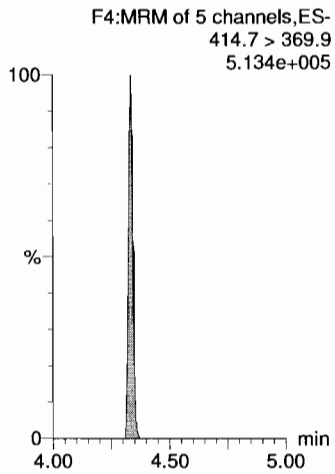

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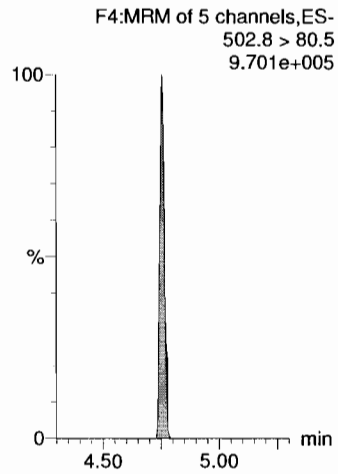

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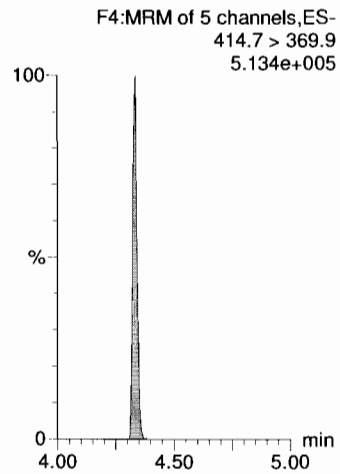

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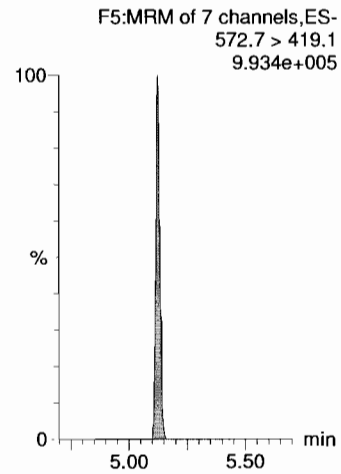

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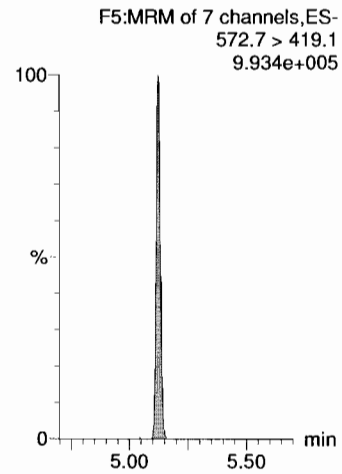


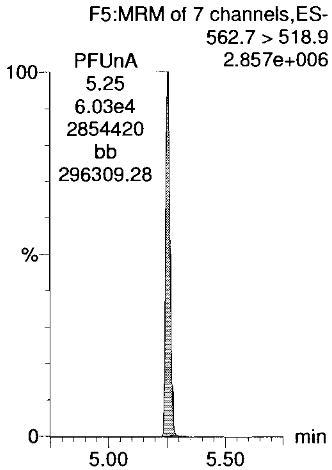
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-34.qld

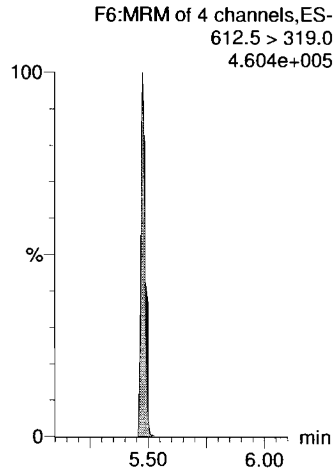
Last Altered: Monday, August 27, 2018 16:34:57 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:35:23 Pacific Daylight Time

Name: 180827G1_34, Date: 27-Aug-2018, Time: 16:04:25, ID: ST180827G1-3 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

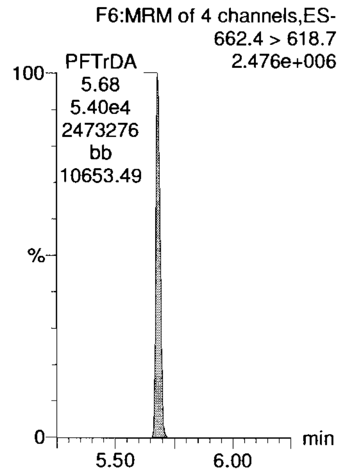
PFUnA



PFDoA



PFTrDA



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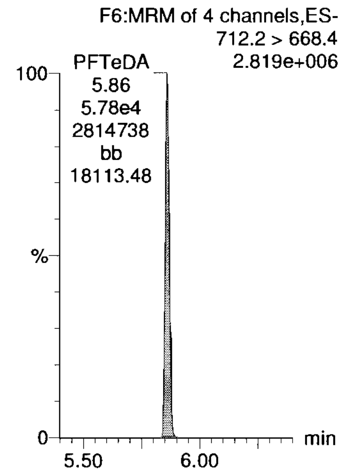
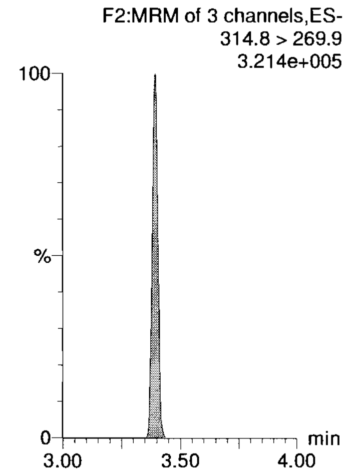
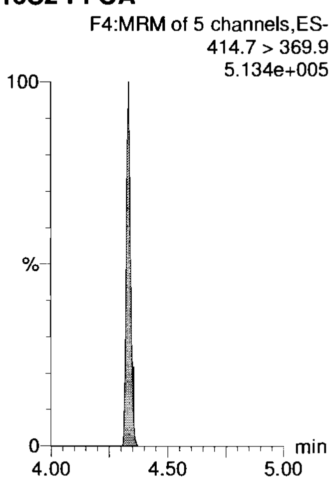


13C2-PFHxA



13C2-PFOA



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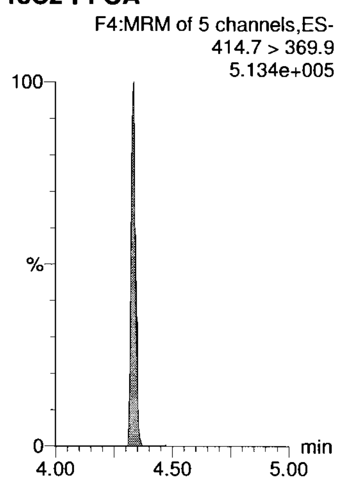

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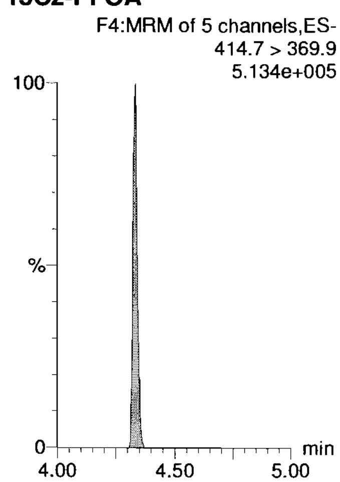

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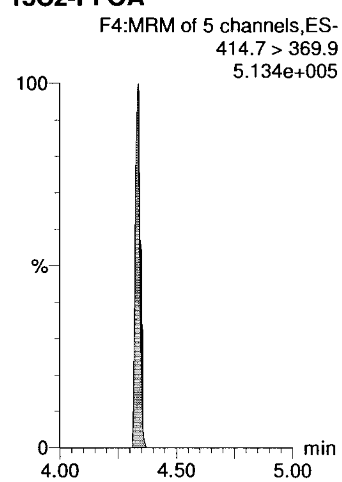

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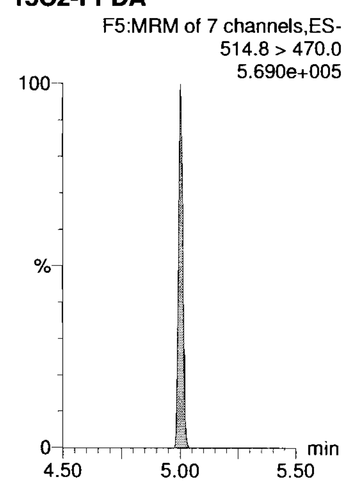

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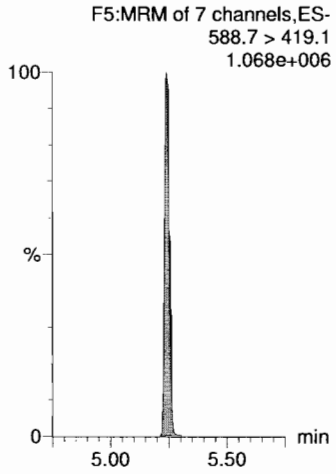
Last Altered: Monday, August 27, 2018 16:34:57 Pacific Daylight Time
Printed: Monday, August 27, 2018 16:35:23 Pacific Daylight Time

Name: 180827G1_34, Date: 27-Aug-2018, Time: 16:04:25, ID: ST180827G1-3 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

d5-N-EtFOSAA



Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-68.qld

Last Altered: Tuesday, August 28, 2018 08:38:02 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:39:08 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_68, Date: 27-Aug-2018, Time: 23:26:52, ID: ST180827G1-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

MJT 8/28/18

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	9.11e2	2.31e4	1.00		3.01	3.02	1.13	1.76	98.7
2	2	PFHxA	312.7 > 268.8	2.03e3	1.32e4	1.00		3.38	3.40	1.53	2.16	108.2
3	3	PFHpA	362.7 > 318.8	2.18e3	1.32e4	1.00		3.91	3.90	1.65	2.11	105.7
4	4	PFHxS	398.7 > 80.7	1.15e3	2.31e4	1.00		4.05	4.02	1.42	1.72	94.6
5	5	PFOA	412.8 > 369.0	1.99e3	1.32e4	1.00		4.33	4.33	1.50	2.06	102.9
6	6	PFNA	462.9 > 419.1	2.27e3	1.32e4	1.00		4.67	4.70	1.72	2.00	100.2
7	7	PFOS	498.8 >80.7	3.92e2	2.31e4	1.00		4.76	4.75	0.486	1.59	85.3
8	8	PFDA	512.8 > 469.0	2.42e3	1.32e4	1.00		4.96	5.00	1.83	2.07	103.3
9	9	N-MeFOSAA	569.7 > 419.0	9.88e2	1.83e4	1.00		5.13	5.12	2.16	1.71	85.7
10	10	N-EtFOSAA	583.6 >419.1	8.68e2	1.83e4	1.00		5.25	5.24	1.90	1.65	82.3
11	11	PFUnA	562.7 > 518.9	2.56e3	1.32e4	1.00		5.22	5.25	1.94	1.99	99.5
12	12	PFDoA	612.5 > 319.0	3.54e2	1.32e4	1.00		5.44	5.47	0.268	1.76	87.8
13	13	PFTrDA	662.4 > 618.7	2.40e3	1.32e4	1.00		5.64	5.68	1.81	1.85	92.7
14	14	PFTeDA	712.2>668.4	2.32e3	1.32e4	1.00		5.83	5.86	1.75	1.71	85.5
15	15	13C2-PFHxA	314.8 > 269.9	9.65e3	1.32e4	1.00	0.651	3.47	3.39	7.30	11.2	112.1
16	16	13C2-PFDA	514.8 > 470.0	1.30e4	1.32e4	1.00	1.028	4.93	5.00	9.81	9.55	95.5
17	17	d5-N-EtFOSAA	588.7> 419.1	2.44e4	1.83e4	1.00	1.457	5.12	5.24	53.5	36.7	91.8
18	18	13C2-PFOA	414.7 > 369.9	1.32e4	1.32e4	1.00	1.000	4.45	4.33	10.0	10.0	100.0
19	19	13C4-PFOS	502.8>80.5	2.31e4	2.31e4	1.00	1.000	4.84	4.75	28.7	28.7	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	1.83e4	1.83e4	1.00	1.000	5.21	5.12	40.0	40.0	100.0

CdW 8/28/18

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Compound name: PFBS

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1	1	180827G1_1	IPA	27-Aug-18	08:46:40
2	2	180827G1_2	ST180827G1-1 PFC CS-1 537 18H2424	27-Aug-18	08:58:46
3	3	180827G1_3	IPA	27-Aug-18	09:11:50
4	4	180827G1_4	B8H0168-BLK1 LRB 0.25	27-Aug-18	09:24:58
5	5	180827G1_5	B8H0168-BS1 LFB 0.25	27-Aug-18	09:37:56
6	6	180827G1_6	1802572-01 WR1808201230CKA 0.239...	27-Aug-18	09:50:57
7	7	180827G1_7	1802572-02 WR1808201250CKA 0.254...	27-Aug-18	10:03:52
8	8	180827G1_8	B8H0182-BLK1 LRB 0.25	27-Aug-18	10:17:40
9	9	180827G1_9	B8H0182-BS1 LFB 0.25	27-Aug-18	10:30:03
10	10	180827G1_10	B8H0182-MS1 LFSM 0.24886	27-Aug-18	10:43:09
11	11	180827G1_11	B8H0182-MSD1 LFSMD 0.2513	27-Aug-18	10:56:15
12	12	180827G1_12	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	11:09:21
13	13	180827G1_13	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	11:30:21
14	14	180827G1_14	1802610-03 WR1808211135LEM 0.264...	27-Aug-18	11:42:24
15	15	180827G1_15	1802610-04 WT1808211250LEM 0.263...	27-Aug-18	11:55:22
16	16	180827G1_16	1802610-05 FB1808211250LEM 0.26563	27-Aug-18	12:08:27
17	17	180827G1_17	1802610-06 WT1808211345LEM 0.259...	27-Aug-18	12:21:32
18	18	180827G1_18	1802610-07 WR1808211410LEM 0.252...	27-Aug-18	12:34:31
19	19	180827G1_19	1802610-08 WR1808211430LEM 0.266...	27-Aug-18	12:47:35
20	20	180827G1_20	1802610-09 WR1808211440LEM 0.265...	27-Aug-18	13:00:42
21	21	180827G1_21	IPA	27-Aug-18	13:13:44
22	22	180827G1_22	ST180827G1-2 PFC CS1 537 18H2426	27-Aug-18	13:26:52
23	23	180827G1_23	IPA	27-Aug-18	13:39:55
24	24	180827G1_24	1802610-10 WR1808211500LEM 0.259	27-Aug-18	13:53:01
25	25	180827G1_25	1802610-11 WT1808211520LEM 0.264...	27-Aug-18	14:08:10
26	26	180827G1_26	1802610-12 WT1808211520LEM-FD 0....	27-Aug-18	14:20:13
27	27	180827G1_27	1802610-01 WT1808211030LEM 0.261...	27-Aug-18	14:33:11
28	28	180827G1_28	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	14:46:08
29	29	180827G1_29	1802614-02 CH-AT-1FB199-0818 0.250...	27-Aug-18	14:59:07
30	30	180827G1_30	1802614-03 CH-AT-1RW200-0818 0.24...	27-Aug-18	15:12:19
31	31	180827G1_31	1802614-04 CH-AT-1FB200-0818 0.2552	27-Aug-18	15:25:17
32	32	180827G1_32	1802614-05 CH-AT-1RW201-0818 0.24...	27-Aug-18	15:38:24

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

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33	33 180827G1_33	IPA	27-Aug-18	15:51:24
34	34 180827G1_34	ST180827G1-3 PFC CS3 537 18H2428	27-Aug-18	16:04:25
35	35 180827G1_35	IPA	27-Aug-18	16:17:29
36	36 180827G1_36	1802614-06 CH-AT-1FB201-0818 0.248...	27-Aug-18	16:30:39
37	37 180827G1_37	1802610-01@10X WT1808211030LEM...	27-Aug-18	16:43:37
38	38 180827G1_38	1802610-02 WR1808211035LEM 0.261...	27-Aug-18	16:56:34
39	39 180827G1_39	1802614-01 CH-AT-1RW199-0818 0.25...	27-Aug-18	17:09:31
40	40 180827G1_40	B8H0020-BS1 LFB 0.25	27-Aug-18	17:22:32
41	41 180827G1_41	1802133-01 GWNT1807301100GSC 0....	27-Aug-18	17:35:36
42	42 180827G1_42	1802136-01 GWEF1807301145GSC 0....	27-Aug-18	17:48:31
43	43 180827G1_43	1802139-01 GWEF1807301215GSC 0....	27-Aug-18	18:01:39
44	44 180827G1_44	B8H0193-BLK1 LRB 0.25	27-Aug-18	18:14:34
45	45 180827G1_45	B8H0193-BS1 LFB 0.25	27-Aug-18	18:27:39
46	46 180827G1_46	B8H0193-BS2 LFB 0.25	27-Aug-18	18:40:47
47	47 180827G1_47	B8H0193-BS3 LFB 0.25	27-Aug-18	18:53:46
48	48 180827G1_48	B8H0193-BS4 LFB 0.25	27-Aug-18	19:06:44
49	49 180827G1_49	B8H0193-BS5 LFB 0.25	27-Aug-18	19:19:41
50	50 180827G1_50	B8H0193-BS6 LFB 0.25	27-Aug-18	19:32:39
51	51 180827G1_51	B8H0193-BS7 LFB 0.25	27-Aug-18	19:45:36
52	52 180827G1_52	B8H0192-BLK1 LRB 0.25	27-Aug-18	19:58:34
53	53 180827G1_53	B8H0192-BS1 LFB 0.25	27-Aug-18	20:11:41
54	54 180827G1_54	B8H0192-BS2 LFB 0.25	27-Aug-18	20:24:46
55	55 180827G1_55	B8H0192-BS3 LFB 0.25	27-Aug-18	20:37:47
56	56 180827G1_56	B8H0192-BS4 LFB 0.25	27-Aug-18	20:50:45
57	57 180827G1_57	B8H0192-BS5 LFB 0.25	27-Aug-18	21:03:42
58	58 180827G1_58	B8H0192-BS6 LFB 0.25	27-Aug-18	21:16:39
59	59 180827G1_59	B8H0192-BS7 LFB 0.25	27-Aug-18	21:29:36
60	60 180827G1_60	B8H0004-BLK1 LRB 0.25	27-Aug-18	21:42:33
61	61 180827G1_61	B8H0004-BS1 LFB 0.25	27-Aug-18	21:55:30
62	62 180827G1_62	B8H0004-MS1 LFSM 0.23784	27-Aug-18	22:08:28
63	63 180827G1_63	B8H0004-MSD1 LFSMD 0.23642	27-Aug-18	22:21:35
64	64 180827G1_64	1802033-01 GWEF1807250915KER 0....	27-Aug-18	22:34:39
65	65 180827G1_65	1802049-01 WR1807250940JTM 0.243...	27-Aug-18	22:47:45
66	66 180827G1_66	1802050-01 WR1807251030JTM 0.243...	27-Aug-18	23:00:51
67	67 180827G1_67	IPA	27-Aug-18	23:13:52
68	68 180827G1_68	ST180827G1-4 PFC CS-1 537 18H2424	27-Aug-18	23:26:52

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-IIS.qld

Last Altered: Tuesday, August 28, 2018 08:00:14 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:35:06 Pacific Daylight Time

Compound name: PFBS

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69	69 180827G1_69	IPA	27-Aug-18	23:39:55
70	70 180827G1_70	1802051-01 WR1807251120JTM 0.249...	27-Aug-18	23:52:54
71	71 180827G1_71	1802052-01 WR1807251145JTM 0.244...	28-Aug-18	00:05:56
72	72 180827G1_72	1802053-01 WR1807251210JTM 0.239...	28-Aug-18	00:18:54
73	73 180827G1_73	1802054-01 WR1807251300JTM 0.245...	28-Aug-18	00:31:57
74	74 180827G1_74	1802081-01 GWIN1807260910KER 0.2...	28-Aug-18	00:44:50
75	75 180827G1_75	1802082-01 GWEF1807261020KER 0....	28-Aug-18	00:57:55
76	76 180827G1_76	1802083-01 GWNT1807261130KER 0....	28-Aug-18	01:11:01
77	77 180827G1_77	1802084-02 SWEF1807261415KER 0....	28-Aug-18	01:24:06
78	78 180827G1_78	1802085-01 SWEF1807260900GSC 0....	28-Aug-18	01:37:07
79	79 180827G1_79	1802103-01 GWEF1807270915KER 0....	28-Aug-18	01:50:05
80	80 180827G1_80	IPA	28-Aug-18	02:03:03
81	81 180827G1_81	ST180827G1-5 PFC CS1 537 18H2426	28-Aug-18	02:16:02
82	82 180827G1_82	IPA	28-Aug-18	02:29:06
83	83 180827G1_83	1802103-02 GWEF1807270950KER 0....	28-Aug-18	02:42:12
84	84 180827G1_84	1802105-01 GWNT1807271045KER 0....	28-Aug-18	02:55:15
85	85 180827G1_85	1802105-02 GWNT1807271100KER 0....	28-Aug-18	03:08:12
86	86 180827G1_86	1802105-03 GWNT1807271120KER-F...	28-Aug-18	03:21:19
87	87 180827G1_87	1802105-04 FB1807271130KER 0.2444	28-Aug-18	03:34:25
88	88 180827G1_88	1802106-01 GWNT1807271230KER 0....	28-Aug-18	03:47:30
89	89 180827G1_89	MIKE COHEN QC1	28-Aug-18	04:00:31
90	90 180827G1_90	MIKE COHEN QC2	28-Aug-18	04:13:29
91	91 180827G1_91	IPA	28-Aug-18	04:26:26
92	92 180827G1_92	ST180827G1-6 PFC CS3 537 18H2428	28-Aug-18	04:39:26
93	93 180827G1_93	IPA	28-Aug-18	04:52:30

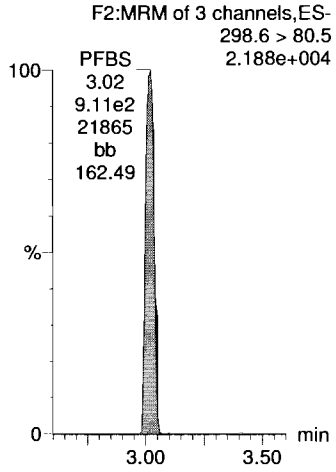
Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-68.qld

Last Altered: Tuesday, August 28, 2018 08:38:02 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:39:08 Pacific Daylight Time

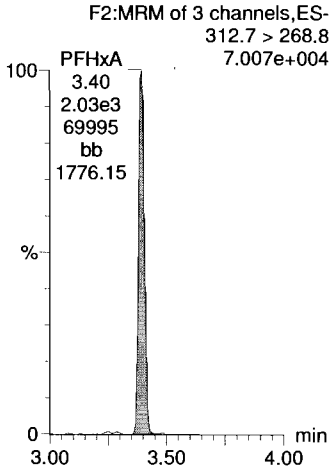
Method: X:\G1.pro\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.pro\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180827G1_68, Date: 27-Aug-2018, Time: 23:26:52, ID: ST180827G1-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

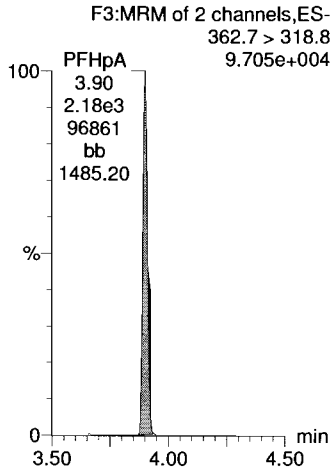
PFBS



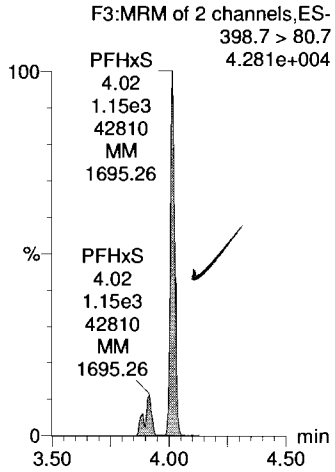
PFHxA



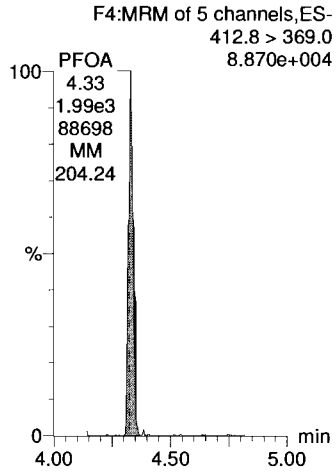
PFHpA



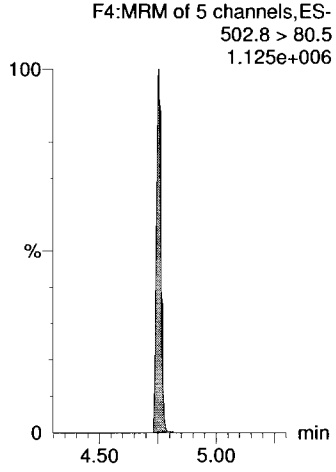
PFHxS



PFOA



13C4-PFOS



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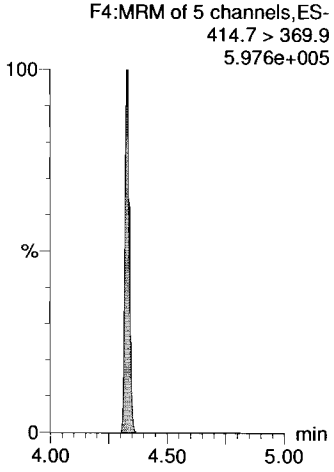

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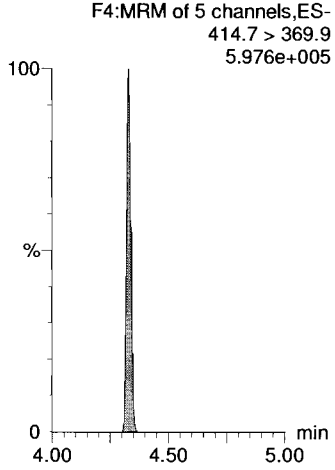

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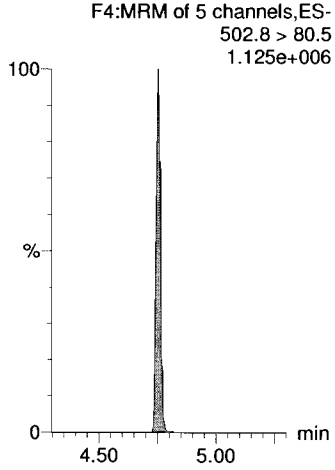

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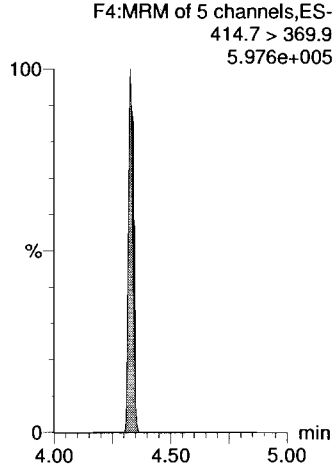
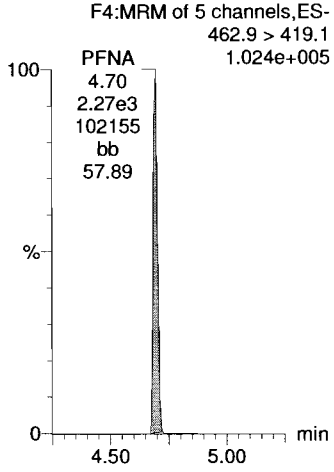


Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-68.qld

Last Altered: Tuesday, August 28, 2018 08:38:02 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:39:08 Pacific Daylight Time

Name: 180827G1_68, Date: 27-Aug-2018, Time: 23:26:52, ID: ST180827G1-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

PFNA



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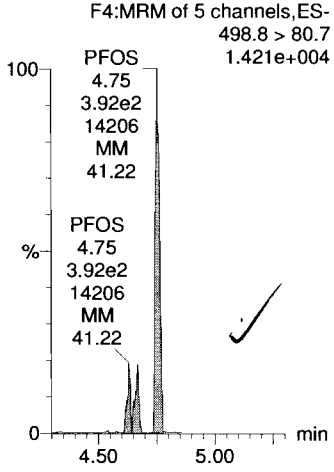

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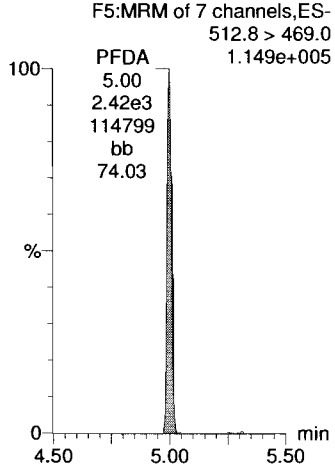

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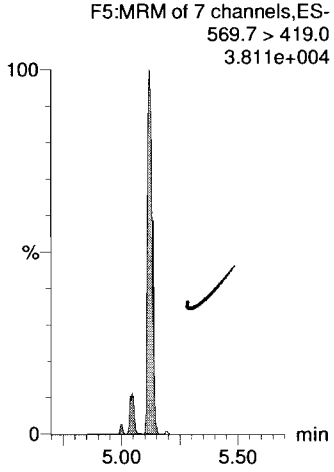

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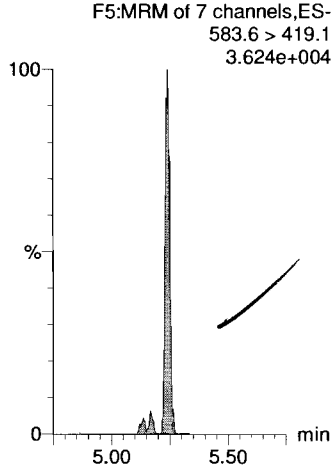

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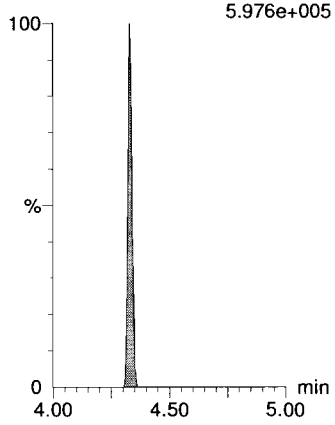

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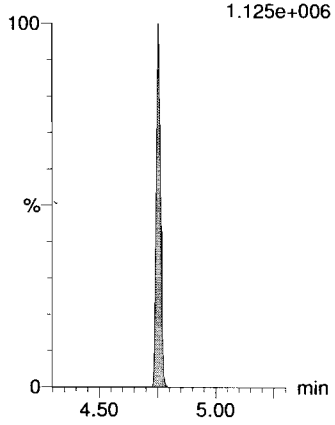

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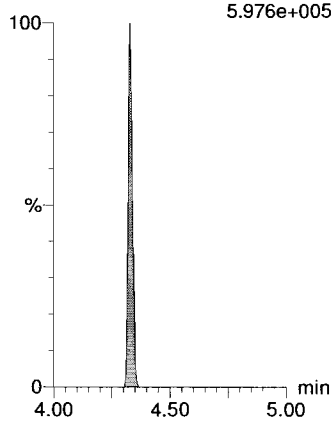

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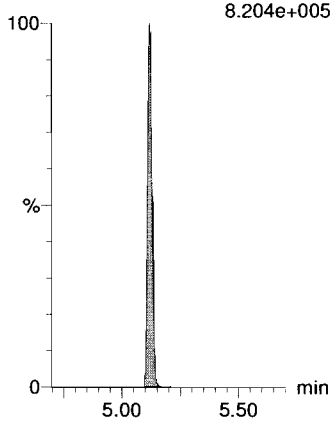

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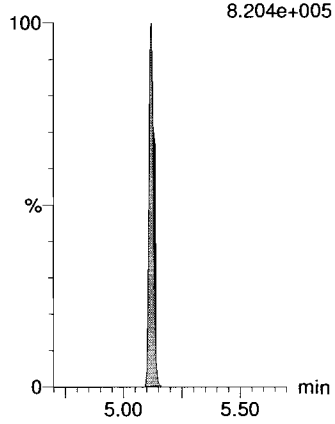


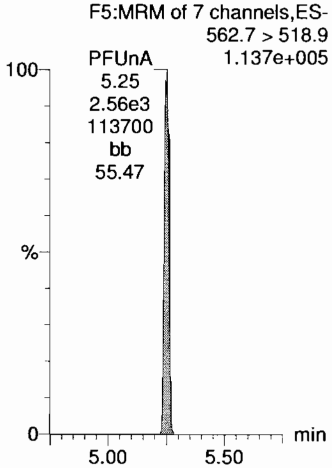
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180827G1\180827G1-68.qld

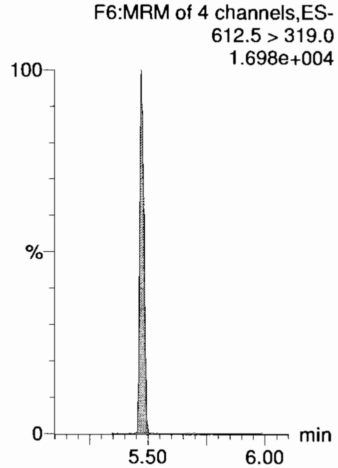
Last Altered: Tuesday, August 28, 2018 08:38:02 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:39:08 Pacific Daylight Time

Name: 180827G1_68, Date: 27-Aug-2018, Time: 23:26:52, ID: ST180827G1-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

PFUnA



PFDoA



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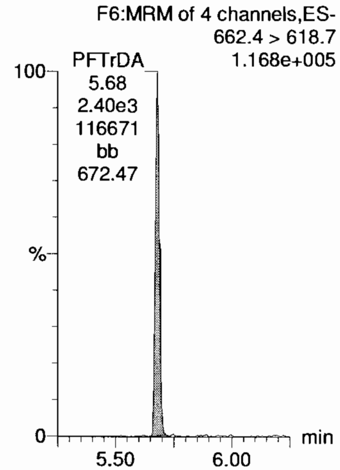
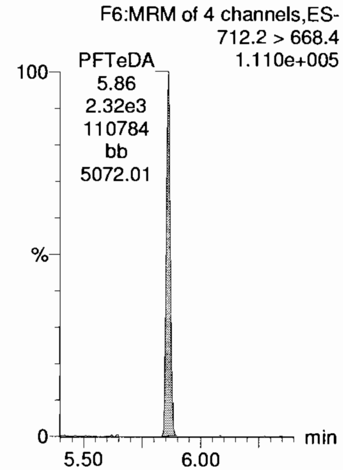


PFTeDA



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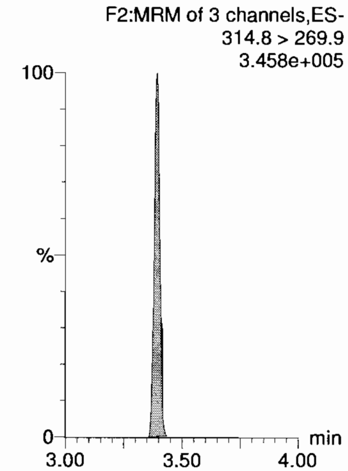

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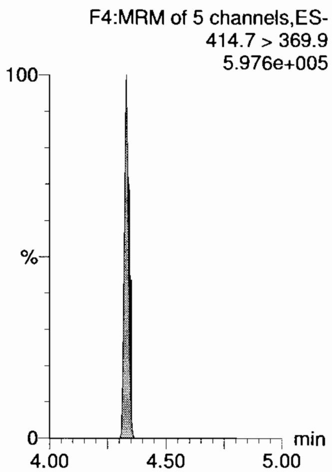

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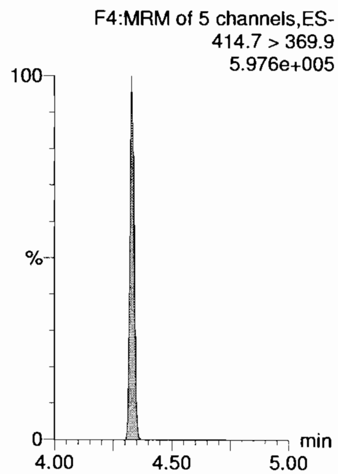

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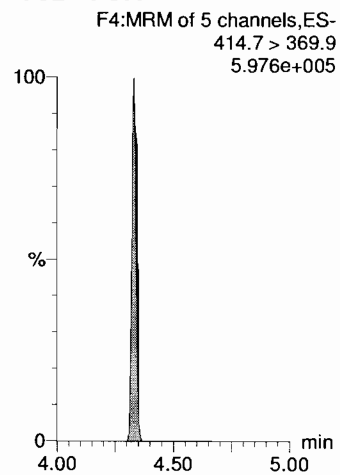

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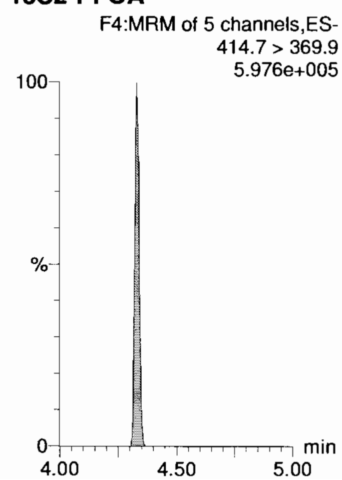

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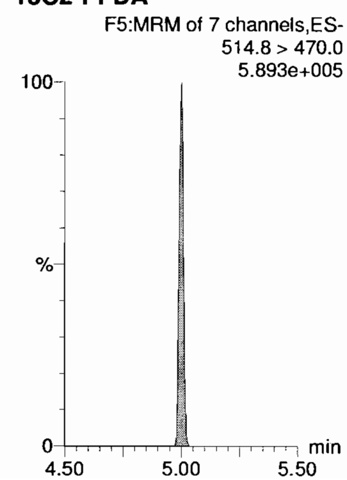

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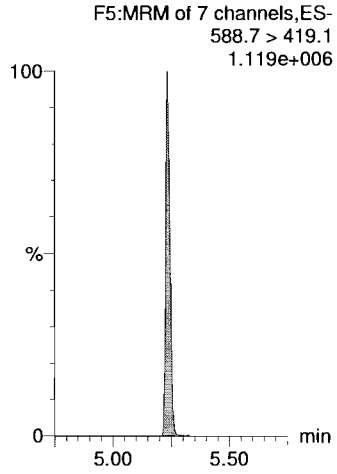
Last Altered: Tuesday, August 28, 2018 08:38:02 Pacific Daylight Time
Printed: Tuesday, August 28, 2018 08:39:08 Pacific Daylight Time

Name: 180827G1_68, Date: 27-Aug-2018, Time: 23:26:52, ID: ST180827G1-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

d5-N-EtFOSAA



INITIAL CALIBRATION (ICAL)

INCLUDING ASSOCIATED

INITIAL CALIBRATION VERIFICATION (ICV)

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:38:17 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

✓ JM 9/25/18

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999107
Calibration curve: 0.643207 * x
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.222	3.09	128.338	23952.588	0.154	0.2	7.7	NO	0.999	NO	bb
2	2	180824G3_3	Standard	0.444	3.10	238.057	24549.832	0.278	0.4	-2.6	NO	0.999	NO	bb
3	3	180824G3_4	Standard	0.888	3.10	469.546	22876.230	0.589	0.9	3.1	NO	0.999	NO	bb
4	4	180824G3_5	Standard	1.780	3.10	923.201	24643.475	1.075	1.7	-6.1	NO	0.999	NO	bb
5	5	180824G3_6	Standard	4.440	3.10	2407.040	23906.969	2.890	4.5	1.2	NO	0.999	NO	bb
6	6	180824G3_7	Standard	8.840	3.10	4364.881	23369.865	5.360	8.3	-5.7	NO	0.999	NO	bb
7	7	180824G3_8	Standard	22.100	3.10	10453.142	22243.818	13.487	21.0	-5.1	NO	0.999	NO	bb
8	8	180824G3_9	Standard	44.200	3.10	21657.383	21694.129	28.651	44.5	0.8	NO	0.999	NO	bb
9	9	180824G3_10	Standard	66.400	3.10	31319.611	20637.662	43.555	67.7	2.0	NO	0.999	NO	bb
10	10	180824G3_11	Standard	88.500	3.10	33899.313	16474.564	59.055	91.8	3.7	NO	0.999	NO	bbX

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.997968
Calibration curve: 0.708592 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	3.50	301.610	13885.101	0.217	0.3	22.6	NO	0.998	NO	bb
2	2	180824G3_3	Standard	0.500	3.49	571.508	14540.142	0.393	0.6	10.9	NO	0.998	NO	bb
3	3	180824G3_4	Standard	1.000	3.49	1030.273	14239.807	0.724	1.0	2.1	NO	0.998	NO	bb
4	4	180824G3_5	Standard	2.000	3.49	2002.844	14026.112	1.428	2.0	0.8	NO	0.998	NO	bb
5	5	180824G3_6	Standard	5.000	3.49	4733.614	14256.241	3.320	4.7	-6.3	NO	0.998	NO	bb
6	6	180824G3_7	Standard	10.000	3.49	8988.944	14427.423	6.230	8.8	-12.1	NO	0.998	NO	bb
7	7	180824G3_8	Standard	25.000	3.49	22407.391	13387.237	16.738	23.6	-5.5	NO	0.998	NO	bb
8	8	180824G3_9	Standard	50.000	3.49	45828.922	12632.012	36.280	51.2	2.4	NO	0.998	NO	bb
9	9	180824G3_10	Standard	75.000	3.49	65132.191	12007.156	54.244	76.6	2.1	NO	0.998	NO	bb
10	10	180824G3_11	Standard	100.000	3.49	67517.594	9575.485	70.511	99.5	-0.5	NO	0.998	NO	bbX

CAH 8/25/18

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:38:17 Pacific Daylight Time

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.999414
Calibration curve: 0.778763 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	4.03	291.770	13885.101	0.210	0.3	7.9	NO	0.999	NO	MM
2	2	180824G3_3	Standard	0.500	4.02	564.274	14540.142	0.388	0.5	-0.3	NO	0.999	NO	bb
3	3	180824G3_4	Standard	1.000	4.03	1092.829	14239.807	0.767	1.0	-1.5	NO	0.999	NO	bb
4	4	180824G3_5	Standard	2.000	4.02	2137.599	14026.112	1.524	2.0	-2.2	NO	0.999	NO	bb
5	5	180824G3_6	Standard	5.000	4.02	5390.750	14256.241	3.781	4.9	-2.9	NO	0.999	NO	bb
6	6	180824G3_7	Standard	10.000	4.02	10422.121	14427.423	7.224	9.3	-7.2	NO	0.999	NO	bb
7	7	180824G3_8	Standard	25.000	4.03	25421.930	13387.237	18.990	24.4	-2.5	NO	0.999	NO	bb
8	8	180824G3_9	Standard	50.000	4.02	49755.504	12632.012	39.388	50.6	1.2	NO	0.999	NO	bb
9	9	180824G3_10	Standard	75.000	4.02	71014.273	12007.156	59.143	75.9	1.3	NO	0.999	NO	bb
10	10	180824G3_11	Standard	100.000	4.02	75063.781	9575.485	78.392	100.7	0.7	NO	0.999	NO	bbX

Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999767
Calibration curve: 0.827135 * x
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.228	4.14	154.940	23952.588	0.186	0.2	-1.6	NO	1.000	NO	MM
2	2	180824G3_3	Standard	0.456	4.14	294.205	24549.832	0.344	0.4	-8.8	NO	1.000	NO	MM
3	3	180824G3_4	Standard	0.912	4.14	670.141	22876.230	0.841	1.0	11.5	NO	1.000	NO	MM
4	4	180824G3_5	Standard	1.820	4.14	1193.025	24643.475	1.389	1.7	-7.7	NO	1.000	NO	MM
5	5	180824G3_6	Standard	4.560	4.14	3179.033	23906.969	3.816	4.6	1.2	NO	1.000	NO	MM
6	6	180824G3_7	Standard	9.120	4.14	6010.726	23369.865	7.382	8.9	-2.1	NO	1.000	NO	MM
7	7	180824G3_8	Standard	22.800	4.13	14593.699	22243.818	18.829	22.8	-0.2	NO	1.000	NO	MM
8	8	180824G3_9	Standard	45.500	4.13	28650.262	21694.129	37.903	45.8	0.7	NO	1.000	NO	MM
9	9	180824G3_10	Standard	68.200	4.13	40523.746	20637.662	56.355	68.1	-0.1	NO	1.000	NO	MM
10	10	180824G3_11	Standard	91.000	4.14	35669.711	16474.564	62.139	75.1	-17.4	NO	1.000	NO	bbX

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:38:17 Pacific Daylight Time

Compound name: PFOA
Coefficient of Determination: R^2 = 0.999104
Calibration curve: 0.730538 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	4.45	326.436	13885.101	0.235	0.3	28.7	NO	0.999	NO	MM
2	2	180824G3_3	Standard	0.500	4.44	580.470	14540.142	0.399	0.5	9.3	NO	0.999	NO	MM
3	3	180824G3_4	Standard	1.000	4.44	1000.292	14239.807	0.702	1.0	-3.8	NO	0.999	NO	bb
4	4	180824G3_5	Standard	2.000	4.44	1879.889	14026.112	1.340	1.8	-8.3	NO	0.999	NO	bb
5	5	180824G3_6	Standard	5.000	4.44	5332.121	14256.241	3.740	5.1	2.4	NO	0.999	NO	bd
6	6	180824G3_7	Standard	10.000	4.44	10019.527	14427.423	6.945	9.5	-4.9	NO	0.999	NO	bb
7	7	180824G3_8	Standard	25.000	4.44	23468.848	13387.237	17.531	24.0	-4.0	NO	0.999	NO	bb
8	8	180824G3_9	Standard	50.000	4.44	47339.215	12632.012	37.476	51.3	2.6	NO	0.999	NO	bb
9	9	180824G3_10	Standard	75.000	4.44	65931.109	12007.156	54.910	75.2	0.2	NO	0.999	NO	bb
10	10	180824G3_11	Standard	100.000	4.44	73691.633	9575.485	76.959	105.3	5.3	NO	0.999	NO	bbX

Compound name: PFNA
Coefficient of Determination: R^2 = 0.998422
Calibration curve: 0.857252 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	4.79	309.691	13885.101	0.223	0.3	4.1	NO	0.998	NO	MM
2	2	180824G3_3	Standard	0.500	4.79	644.922	14540.142	0.444	0.5	3.5	NO	0.998	NO	bb
3	3	180824G3_4	Standard	1.000	4.79	1038.056	14239.807	0.729	0.9	-15.0	NO	0.998	NO	MM
4	4	180824G3_5	Standard	2.000	4.79	2374.604	14026.112	1.693	2.0	-1.3	NO	0.998	NO	bb
5	5	180824G3_6	Standard	5.000	4.79	6210.791	14256.241	4.357	5.1	1.6	NO	0.998	NO	bb
6	6	180824G3_7	Standard	10.000	4.79	11548.987	14427.423	8.005	9.3	-6.6	NO	0.998	NO	bb
7	7	180824G3_8	Standard	25.000	4.78	26690.053	13387.237	19.937	23.3	-7.0	NO	0.998	NO	bb
8	8	180824G3_9	Standard	50.000	4.78	54569.344	12632.012	43.199	50.4	0.8	NO	0.998	NO	bb
9	9	180824G3_10	Standard	75.000	4.78	79337.359	12007.156	66.075	77.1	2.8	NO	0.998	NO	bb
10	10	180824G3_11	Standard	100.000	4.79	83404.586	9575.485	87.102	101.6	1.6	NO	0.998	NO	bdX

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Compound name: PFOS
Coefficient of Determination: R^2 = 0.999083
Calibration curve: 0.00078426 * x^2 + 0.305082 * 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	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.232	4.84	54.593	23952.588	0.065	0.2	-7.6	NO	0.999	NO	MM
2	2	180824G3_3	Standard	0.464	4.84	93.057	24549.832	0.109	0.4	-23.2	NO	0.999	NO	MM
3	3	180824G3_4	Standard	0.928	4.83	160.597	22876.230	0.201	0.7	-29.0	NO	0.999	NO	MM
4	4	180824G3_5	Standard	1.860	4.84	485.480	24643.475	0.565	1.8	-0.8	NO	0.999	NO	MM
5	5	180824G3_6	Standard	4.640	4.84	1179.286	23906.969	1.416	4.6	-1.2	NO	0.999	NO	MM
6	6	180824G3_7	Standard	9.240	4.84	2248.886	23369.865	2.762	8.9	-4.2	NO	0.999	NO	MM
7	7	180824G3_8	Standard	23.100	4.84	6002.521	22243.818	7.745	23.9	3.5	NO	0.999	NO	MM
8	8	180824G3_9	Standard	46.200	4.84	12057.713	21694.129	15.952	46.7	1.0	NO	0.999	NO	MM
9	9	180824G3_10	Standard	69.400	4.84	17800.523	20637.662	24.755	68.9	-0.7	NO	0.999	NO	MM
10	10	180824G3_11	Standard	92.500	4.84	13096.100	16474.564	22.814	64.2	-30.6	NO	0.999	NO	bbX

Compound name: PFDA
Coefficient of Determination: R^2 = 0.998332
Calibration curve: 0.887813 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.08	436.202	13885.101	0.314	0.4	41.5	NO	0.998	NO	bb
2	2	180824G3_3	Standard	0.500	5.08	693.667	14540.142	0.477	0.5	7.5	NO	0.998	NO	bb
3	3	180824G3_4	Standard	1.000	5.08	1358.609	14239.807	0.954	1.1	7.5	NO	0.998	NO	bb
4	4	180824G3_5	Standard	2.000	5.08	2458.041	14026.112	1.752	2.0	-1.3	NO	0.998	NO	bb
5	5	180824G3_6	Standard	5.000	5.08	6567.602	14256.241	4.607	5.2	3.8	NO	0.998	NO	bb
6	6	180824G3_7	Standard	10.000	5.08	11978.707	14427.423	8.303	9.4	-6.5	NO	0.998	NO	bb
7	7	180824G3_8	Standard	25.000	5.08	28572.617	13387.237	21.343	24.0	-3.8	NO	0.998	NO	bd
8	8	180824G3_9	Standard	50.000	5.08	58688.785	12632.012	46.460	52.3	4.7	NO	0.998	NO	bb
9	9	180824G3_10	Standard	75.000	5.08	78776.016	12007.156	65.608	73.9	-1.5	NO	0.998	NO	bb
10	10	180824G3_11	Standard	100.000	5.08	86300.297	9575.485	90.126	101.5	1.5	NO	0.998	NO	bbX

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Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.998538
Calibration curve: 1.26192 * x
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.21	103.248	18774.717	0.220	0.2	-30.3	NO	0.999	NO	MM
2	2	180824G3_3	Standard	0.500	5.20	272.271	19831.803	0.549	0.4	-13.0	NO	0.999	NO	MM
3	3	180824G3_4	Standard	1.000	5.20	589.760	21581.463	1.093	0.9	-13.4	NO	0.999	NO	MM
4	4	180824G3_5	Standard	2.000	5.20	1177.764	19925.012	2.364	1.9	-6.3	NO	0.999	NO	MM
5	5	180824G3_6	Standard	5.000	5.21	3175.946	20014.629	6.347	5.0	0.6	NO	0.999	NO	MM
6	6	180824G3_7	Standard	10.000	5.21	6357.892	20547.648	12.377	9.8	-1.9	NO	0.999	NO	MM
7	7	180824G3_8	Standard	25.000	5.21	14759.268	20091.996	29.383	23.3	-6.9	NO	0.999	NO	MM
8	8	180824G3_9	Standard	50.000	5.21	31315.264	19253.482	65.059	51.6	3.1	NO	0.999	NO	MM
9	9	180824G3_10	Standard	75.000	5.20	44247.516	18522.150	95.556	75.7	1.0	NO	0.999	NO	MM
10	10	180824G3_11	Standard	100.000	5.20	44051.910	15545.104	113.352	89.8	-10.2	NO	0.999	NO	bbX

Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.999185
Calibration curve: 1.15468 * x
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.34	187.433	18774.717	0.399	0.3	38.3	NO	0.999	NO	MM
2	2	180824G3_3	Standard	0.500	5.32	334.850	19831.803	0.675	0.6	17.0	NO	0.999	NO	MM
3	3	180824G3_4	Standard	1.000	5.33	577.825	21581.463	1.071	0.9	-7.2	NO	0.999	NO	MM
4	4	180824G3_5	Standard	2.000	5.33	1071.873	19925.012	2.152	1.9	-6.8	NO	0.999	NO	MM
5	5	180824G3_6	Standard	5.000	5.33	2901.165	20014.629	5.798	5.0	0.4	NO	0.999	NO	MM
6	6	180824G3_7	Standard	10.000	5.33	5810.907	20547.648	11.312	9.8	-2.0	NO	0.999	NO	MM
7	7	180824G3_8	Standard	25.000	5.33	14390.474	20091.996	28.649	24.8	-0.8	NO	0.999	NO	MM
8	8	180824G3_9	Standard	50.000	5.33	28597.154	19253.482	59.412	51.5	2.9	NO	0.999	NO	MM
9	9	180824G3_10	Standard	75.000	5.32	39536.820	18522.150	85.383	73.9	-1.4	NO	0.999	NO	MM
10	10	180824G3_11	Standard	100.000	5.32	33967.797	15545.104	87.404	75.7	-24.3	NO	0.999	NO	bdX

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Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999185
Calibration curve: 0.972901 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.34	396.789	13885.101	0.286	0.3	17.5	NO	0.999	NO	bb
2	2	180824G3_3	Standard	0.500	5.34	709.829	14540.142	0.488	0.5	0.4	NO	0.999	NO	bb
3	3	180824G3_4	Standard	1.000	5.34	1440.530	14239.807	1.012	1.0	4.0	NO	0.999	NO	bb
4	4	180824G3_5	Standard	2.000	5.34	2794.769	14026.112	1.993	2.0	2.4	NO	0.999	NO	bb
5	5	180824G3_6	Standard	5.000	5.34	6804.809	14256.241	4.773	4.9	-1.9	NO	0.999	NO	bb
6	6	180824G3_7	Standard	10.000	5.34	12973.423	14427.423	8.992	9.2	-7.6	NO	0.999	NO	bb
7	7	180824G3_8	Standard	25.000	5.34	32324.906	13387.237	24.146	24.8	-0.7	NO	0.999	NO	bb
8	8	180824G3_9	Standard	50.000	5.33	63419.969	12632.012	50.206	51.6	3.2	NO	0.999	NO	bb
9	9	180824G3_10	Standard	75.000	5.33	86789.852	12007.156	72.282	74.3	-0.9	NO	0.999	NO	bb
10	10	180824G3_11	Standard	100.000	5.33	92071.125	9575.485	96.153	98.8	-1.2	NO	0.999	NO	bbX

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998591
Calibration curve: 0.000112321 * x^2 + 0.152315 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.56	48.533	13885.101	0.035	0.2	-8.2	NO	0.999	NO	bb
2	2	180824G3_3	Standard	0.500	5.56	79.854	14540.142	0.055	0.4	-27.9	NO	0.999	NO	MM
3	3	180824G3_4	Standard	1.000	5.55	183.248	14239.807	0.129	0.8	-15.6	NO	0.999	NO	MM
4	4	180824G3_5	Standard	2.000	5.55	412.792	14026.112	0.294	1.9	-3.5	NO	0.999	NO	MM
5	5	180824G3_6	Standard	5.000	5.55	1151.654	14256.241	0.808	5.3	5.7	NO	0.999	NO	bb
6	6	180824G3_7	Standard	10.000	5.55	2041.688	14427.423	1.415	9.2	-7.7	NO	0.999	NO	bb
7	7	180824G3_8	Standard	25.000	5.55	5236.977	13387.237	3.912	25.2	0.9	NO	0.999	NO	bb
8	8	180824G3_9	Standard	50.000	5.55	10347.812	12632.012	8.192	51.8	3.6	NO	0.999	NO	bb
9	9	180824G3_10	Standard	75.000	5.55	14241.837	12007.156	11.861	73.9	-1.5	NO	0.999	NO	bb
10	10	180824G3_11	Standard	100.000	5.55	15224.343	9575.485	15.899	97.4	-2.6	NO	0.999	NO	bdX

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Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.999077
Calibration curve: 0.977845 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.75	421.972	13885.101	0.304	0.3	24.3	NO	0.999	NO	bb
2	2	180824G3_3	Standard	0.500	5.75	681.284	14540.142	0.469	0.5	-4.2	NO	0.999	NO	bb
3	3	180824G3_4	Standard	1.000	5.75	1375.126	14239.807	0.966	1.0	-1.2	NO	0.999	NO	bb
4	4	180824G3_5	Standard	2.000	5.75	2709.959	14026.112	1.932	2.0	-1.2	NO	0.999	NO	bb
5	5	180824G3_6	Standard	5.000	5.75	6717.857	14256.241	4.712	4.8	-3.6	NO	0.999	NO	bb
6	6	180824G3_7	Standard	10.000	5.75	13084.549	14427.423	9.069	9.3	-7.3	NO	0.999	NO	bd
7	7	180824G3_8	Standard	25.000	5.75	31417.145	13387.237	23.468	24.0	-4.0	NO	0.999	NO	bb
8	8	180824G3_9	Standard	50.000	5.75	63005.316	12632.012	49.877	51.0	2.0	NO	0.999	NO	bb
9	9	180824G3_10	Standard	75.000	5.75	89110.234	12007.156	74.214	75.9	1.2	NO	0.999	NO	bb
10	10	180824G3_11	Standard	100.000	5.75	94928.953	9575.485	99.137	101.4	1.4	NO	0.999	NO	bbX

Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.997498
Calibration curve: 1.02449 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	0.250	5.94	453.309	13885.101	0.326	0.3	27.5	NO	0.997	NO	bb
2	2	180824G3_3	Standard	0.500	5.94	725.923	14540.142	0.499	0.5	-2.5	NO	0.997	NO	bb
3	3	180824G3_4	Standard	1.000	5.93	1435.320	14239.807	1.008	1.0	-1.6	NO	0.997	NO	bb
4	4	180824G3_5	Standard	2.000	5.93	2778.987	14026.112	1.981	1.9	-3.3	NO	0.997	NO	bb
5	5	180824G3_6	Standard	5.000	5.93	6871.693	14256.241	4.820	4.7	-5.9	NO	0.997	NO	bb
6	6	180824G3_7	Standard	10.000	5.93	12822.286	14427.423	8.887	8.7	-13.3	NO	0.997	NO	bb
7	7	180824G3_8	Standard	25.000	5.94	32223.336	13387.237	24.070	23.5	-6.0	NO	0.997	NO	bb
8	8	180824G3_9	Standard	50.000	5.93	65534.668	12632.012	51.880	50.6	1.3	NO	0.997	NO	bb
9	9	180824G3_10	Standard	75.000	5.93	95349.070	12007.156	79.410	77.5	3.3	NO	0.997	NO	bb
10	10	180824G3_11	Standard	100.000	5.93	99285.438	9575.485	103.687	101.2	1.2	NO	0.997	NO	bbX

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Compound name: 13C2-PFHxA
Response Factor: 0.651092
RRF SD: 0.023835, Relative SD: 3.66077
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	10.000	3.49	9426.419	13885.101	6.789	10.4	4.3	NO		NO	bb
2	2	180824G3_3	Standard	10.000	3.49	9090.937	14540.142	6.252	9.6	-4.0	NO		NO	bb
3	3	180824G3_4	Standard	10.000	3.49	9042.519	14239.807	6.350	9.8	-2.5	NO		NO	bb
4	4	180824G3_5	Standard	10.000	3.49	9310.219	14026.112	6.638	10.2	1.9	NO		NO	bb
5	5	180824G3_6	Standard	10.000	3.49	8820.177	14256.241	6.187	9.5	-5.0	NO		NO	bb
6	6	180824G3_7	Standard	10.000	3.49	9108.352	14427.423	6.313	9.7	-3.0	NO		NO	bb
7	7	180824G3_8	Standard	10.000	3.49	8872.842	13387.237	6.628	10.2	1.8	NO		NO	bb
8	8	180824G3_9	Standard	10.000	3.49	8354.896	12632.012	6.614	10.2	1.6	NO		NO	bb
9	9	180824G3_10	Standard	10.000	3.49	8197.503	12007.156	6.827	10.5	4.9	NO		NO	bb
10	10	180824G3_11	Standard	10.000	3.49	6564.174	9575.485	6.855	10.5	5.3	NO		NO	bbX

Compound name: 13C2-PFDA
Response Factor: 1.02785
RRF SD: 0.058903, Relative SD: 5.73073
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	10.000	5.09	15473.813	13885.101	11.144	10.8	8.4	NO		NO	bb
2	2	180824G3_3	Standard	10.000	5.08	13770.182	14540.142	9.470	9.2	-7.9	NO		NO	bb
3	3	180824G3_4	Standard	10.000	5.08	13993.691	14239.807	9.827	9.6	-4.4	NO		NO	bd
4	4	180824G3_5	Standard	10.000	5.08	13738.152	14026.112	9.795	9.5	-4.7	NO		NO	bb
5	5	180824G3_6	Standard	10.000	5.08	14061.537	14256.241	9.863	9.6	-4.0	NO		NO	bb
6	6	180824G3_7	Standard	10.000	5.08	14656.701	14427.423	10.159	9.9	-1.2	NO		NO	bb
7	7	180824G3_8	Standard	10.000	5.08	14131.976	13387.237	10.556	10.3	2.7	NO		NO	bb
8	8	180824G3_9	Standard	10.000	5.08	13851.742	12632.012	10.966	10.7	6.7	NO		NO	bd
9	9	180824G3_10	Standard	10.000	5.08	12878.119	12007.156	10.725	10.4	4.3	NO		NO	bb
10	10	180824G3_11	Standard	10.000	5.08	9974.311	9575.485	10.417	10.1	1.3	NO		NO	bbX

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Compound name: d5-N-EtFOSAA
Response Factor: 1.45701
RRF SD: 0.137586, Relative SD: 9.44302
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	180824G3_2	Standard	40.000	5.33	33806.574	18774.717	72.026	49.4	23.6	NO		NO	bb
2	2	180824G3_3	Standard	40.000	5.32	29489.693	19831.803	59.480	40.8	2.1	NO		NO	bb
3	3	180824G3_4	Standard	40.000	5.32	30370.678	21581.463	56.290	38.6	-3.4	NO		NO	bb
4	4	180824G3_5	Standard	40.000	5.33	29428.869	19925.012	59.079	40.5	1.4	NO		NO	bb
5	5	180824G3_6	Standard	40.000	5.33	28895.756	20014.629	57.749	39.6	-0.9	NO		NO	bb
6	6	180824G3_7	Standard	40.000	5.32	28393.287	20547.648	55.273	37.9	-5.2	NO		NO	bb
7	7	180824G3_8	Standard	40.000	5.32	28230.059	20091.996	56.202	38.6	-3.6	NO		NO	bd
8	8	180824G3_9	Standard	40.000	5.32	26358.443	19253.482	54.761	37.6	-6.0	NO		NO	bd
9	9	180824G3_10	Standard	40.000	5.32	24849.996	18522.150	53.665	36.8	-7.9	NO		NO	bb
10	10	180824G3_11	Standard	40.000	5.32	19835.604	15545.104	51.040	35.0	-12.4	NO		NO	bdX

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Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180824G3_2, Date: 24-Aug-2018, Time: 17:11:56, ID: ST180824G3-1 PFC CS-4 537 18H2421, Description: PFC CS-4 537 18H2421

	#	Name	IS#	CoD	CoD Flag	%RSD
1	1	PFBS	19	0.9991	NO	
2	2	PFHxA	18	0.9980	NO	
3	3	PFHpA	18	0.9994	NO	
4	4	PFHxS	19	0.9998	NO	
5	5	PFOA	18	0.9991	NO	
6	6	PFNA	18	0.9984	NO	
7	7	PFOS	19	0.9991	NO	
8	8	PFDA	18	0.9983	NO	
9	9	N-MeFOSAA	20	0.9985	NO	
10	10	N-EtFOSAA	20	0.9992	NO	
11	11	PFUnA	18	0.9992	NO	
12	12	PFDoA	18	0.9986	NO	
13	13	PFTrDA	18	0.9991	NO	
14	14	PFTeDA	18	0.9975	NO	
15	15	13C2-PFHxA	18		NO	3.661
16	16	13C2-PFDA	18		NO	5.731
17	17	d5-N-EtFOSAA	20		NO	9.443
18	18	13C2-PFOA	18		NO	0.000
19	19	13C4-PFOS	19		NO	0.000
20	20	d3-N-MeFOSAA	20		NO	0.000

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Saturday, August 25, 2018 11:07:02 Pacific Daylight Time
Printed: Saturday, August 25, 2018 11:07:47 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

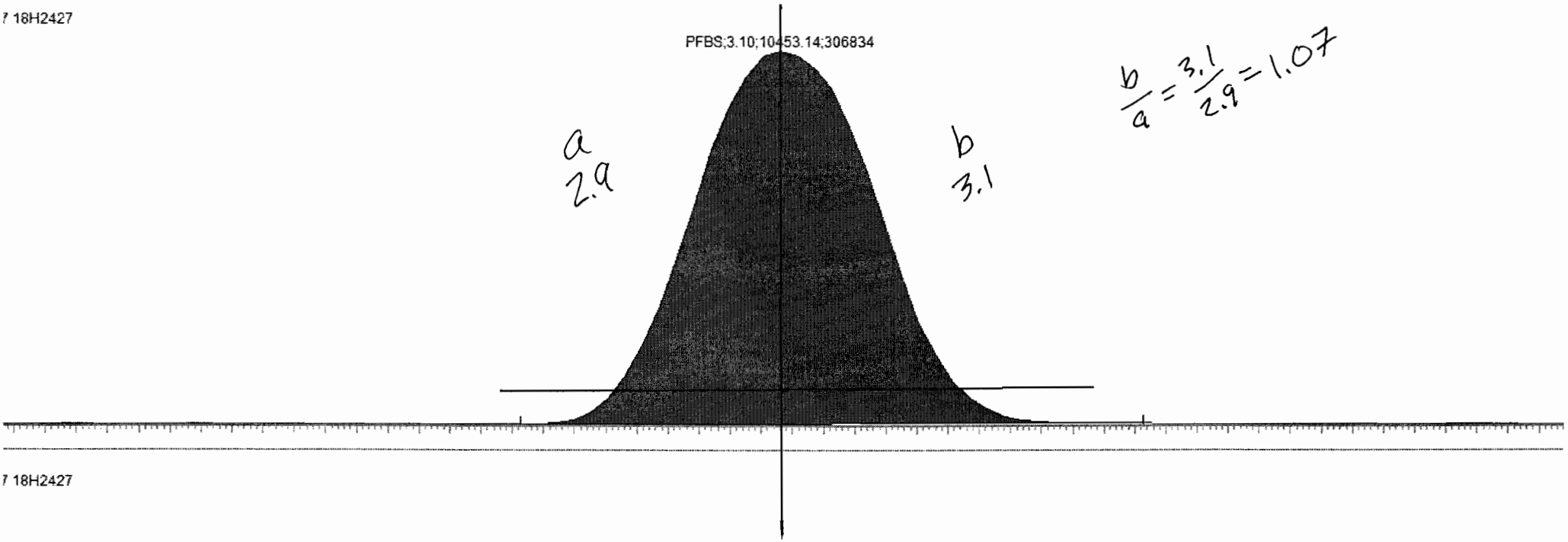
Compound name: PFBS

	#	Name	ID	Acq.Date	Acq.Time
1	1	180824G3_1	IPA	24-Aug-18	16:45:27
2	2	180824G3_2	ST180824G3-1 PFC CS-4 537 18H2421	24-Aug-18	17:11:56
3	3	180824G3_3	ST180824G3-2 PFC CS-3 537 18H2422	24-Aug-18	17:23:58
4	4	180824G3_4	ST180824G3-3 PFC CS-2 537 18H2423	24-Aug-18	17:37:03
5	5	180824G3_5	ST180824G3-4 PFC CS-1 537 18H2424	24-Aug-18	17:50:00
6	6	180824G3_6	ST180824G3-5 PFC CS0 537 18H2425	24-Aug-18	18:02:59
7	7	180824G3_7	ST180824G3-6 PFC CS1 537 18H2426	24-Aug-18	18:16:04
8	8	180824G3_8	ST180824G3-7 PFC CS2 537 18H2427	24-Aug-18	18:29:09
9	9	180824G3_9	ST180824G3-8 PFC CS3 537 18H2428	24-Aug-18	18:42:15
10	10	180824G3_10	ST180824G3-9 PFC CS4 537 18H2429	24-Aug-18	18:55:21
11	11	180824G3_11	ST180824G3-10 PFC CS5 537 18H2430	24-Aug-18	19:08:22
12	12	180824G3_12	IPA	24-Aug-18	19:21:20
13	13	180824G3_13	ST180824G3-1 PFC ICV 537 18H2431	24-Aug-18	19:34:20
14	14	180824G3_14	IPA	24-Aug-18	19:47:23

180824G3_8 - ST180824G3-7 PFC CS2 537 18H2427 - PFC CS2 537 18H2427

%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1° Chr Noise	ID	Sample Text	Factor1	SWt	Cal File	>MDL
94.9		1.045e4		3.10	1	19			0.641	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
94.5		2.241e4		3.49	2	18			0.786	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
97.5		2.542e4		4.03	3	18			0.906	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
99.8		1.459e4		4.13	4	19			0.854	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES

7 18H2427



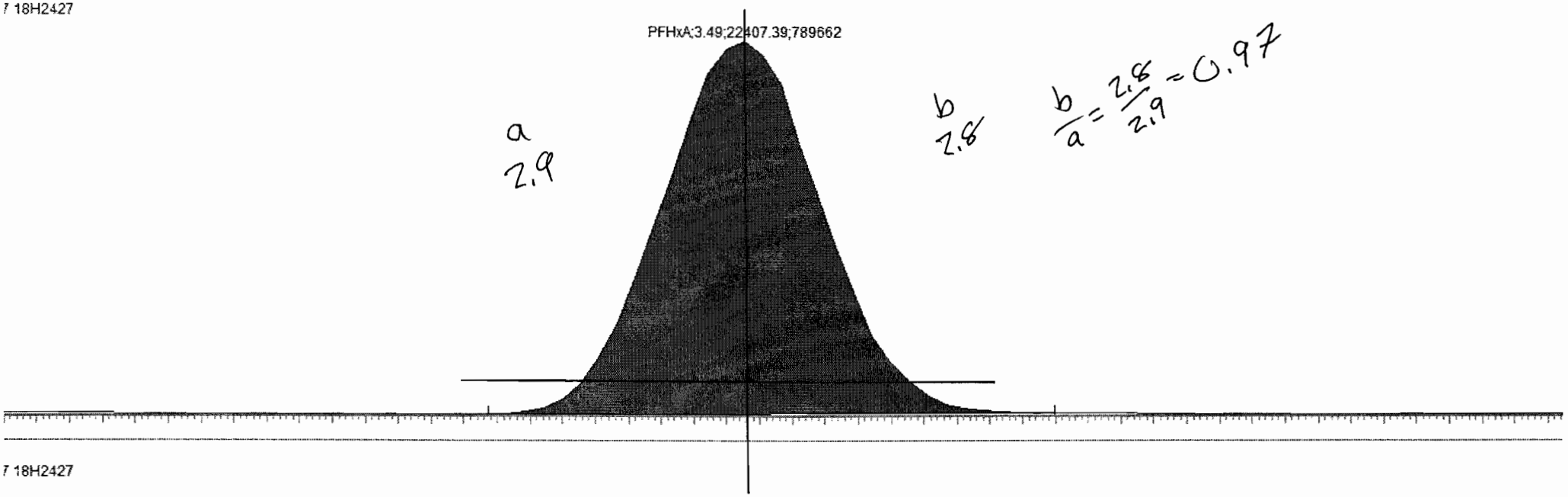
7 18H2427

2.980 2.990 3.000 3.010 3.020 3.030 3.040 3.050 3.060 3.070 3.080 3.090 3.100 3.110 3.120 3.130 3.140 3.150 3.160 3.170 3.180 3.190 3.200 3.210 3.220

180824G3_8 - ST180824G3-7 PFC CS2 537 18H2427 - PFC CS2 537 18H2427

%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SWt	Cal.File	>MDL
94.9		1.045e4		3.10	1	19			0.641	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
94.5		2.241e4		3.49	2	18			0.786	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
97.5		2.542e4		4.03	3	18			0.906	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES
99.8		1.459e4		4.13	4	19			0.854	24-Aug-18	18:29:09		ST180824G...	PFC CS2 537 18...	1.0	1.00	C18_5...	YES

7 18H2427



7 18H2427

3.380 3.390 3.400 3.410 3.420 3.430 3.440 3.450 3.460 3.470 3.480 3.490 3.500 3.510 3.520 3.530 3.540 3.550 3.560 3.570 3.580 3.590 3.600 3.610

ICAL

Compound 18: 13C2-PFOA

high 14540.14 RPD
low 12007.16 19.08

	ID	Name	Type	Std. Cor RT		Area	IS Area	Response	Primary Flags
1	ST180824G3-1 PFC CS-4 537 18H2421	180824G3_2	Standard	10	4.45	13885.10	13885.10	10	bb
2	ST180824G3-2 PFC CS-3 537 18H2422	180824G3_3	Standard	10	4.44	14540.14	14540.14	10	bb
3	ST180824G3-3 PFC CS-2 537 18H2423	180824G3_4	Standard	10	4.44	14239.81	14239.81	10	bb
4	ST180824G3-4 PFC CS-1 537 18H2424	180824G3_5	Standard	10	4.44	14026.11	14026.11	10	bb
5	ST180824G3-5 PFC CS0 537 18H2425	180824G3_6	Standard	10	4.44	14256.24	14256.24	10	bb
6	ST180824G3-6 PFC CS1 537 18H2426	180824G3_7	Standard	10	4.44	14427.42	14427.42	10	bb
7	ST180824G3-7 PFC CS2 537 18H2427	180824G3_8	Standard	10	4.44	13387.24	13387.24	10	bb
8	ST180824G3-8 PFC CS3 537 18H2428	180824G3_9	Standard	10	4.44	12632.01	12632.01	10	bb
9	ST180824G3-9 PFC CS4 537 18H2429	180824G3_10	Standard	10	4.44	12007.16	12007.16	10	bd
10	ST180824G3-10 PFC CS5 537 18H2430	180824G3_11	Standard	10	4.44	9575.49	9575.49	10	bd ✗
							average		
							13711.25		

Compound 19: 13C4-PFOS

high 24643.48 RPD
low 20637.66 17.69

	ID	Name	Type	Std. Cor RT		Area	IS Area	Response	Primary Flags
1	ST180824G3-1 PFC CS-4 537 18H2421	180824G3_2	Standard	28.7	4.84	23952.59	23952.59	28.7	bb
2	ST180824G3-2 PFC CS-3 537 18H2422	180824G3_3	Standard	28.7	4.84	24549.83	24549.83	28.7	bb
3	ST180824G3-3 PFC CS-2 537 18H2423	180824G3_4	Standard	28.7	4.84	22876.23	22876.23	28.7	bb
4	ST180824G3-4 PFC CS-1 537 18H2424	180824G3_5	Standard	28.7	4.84	24643.48	24643.48	28.7	bb
5	ST180824G3-5 PFC CS0 537 18H2425	180824G3_6	Standard	28.7	4.84	23906.97	23906.97	28.7	bd
6	ST180824G3-6 PFC CS1 537 18H2426	180824G3_7	Standard	28.7	4.84	23369.87	23369.87	28.7	bd
7	ST180824G3-7 PFC CS2 537 18H2427	180824G3_8	Standard	28.7	4.84	22243.82	22243.82	28.7	bd
8	ST180824G3-8 PFC CS3 537 18H2428	180824G3_9	Standard	28.7	4.84	21694.13	21694.13	28.7	bb
9	ST180824G3-9 PFC CS4 537 18H2429	180824G3_10	Standard	28.7	4.84	20637.66	20637.66	28.7	bb
10	ST180824G3-10 PFC CS5 537 18H2430	180824G3_11	Standard	28.7	4.84	16474.56	16474.56	28.7	bb ✗
							average		
							23097.17		

Compound 20: d3-N-MeFOSAA

high 21581.46 RPD
low 18522.15 15.26

	ID	Name	Type	Std.	Cor RT	Area	IS Area	Response	Primary Flags
1	ST180824G3-1 PFC CS-4 537 18H2421	180824G3_2	Standard	40	5.21	18774.72	18774.72	40	bb
2	ST180824G3-2 PFC CS-3 537 18H2422	180824G3_3	Standard	40	5.20	19831.80	19831.80	40	bb
3	ST180824G3-3 PFC CS-2 537 18H2423	180824G3_4	Standard	40	5.20	21581.46	21581.46	40	bb
4	ST180824G3-4 PFC CS-1 537 18H2424	180824G3_5	Standard	40	5.20	19925.01	19925.01	40	bb
5	ST180824G3-5 PFC CS0 537 18H2425	180824G3_6	Standard	40	5.20	20014.63	20014.63	40	bd
6	ST180824G3-6 PFC CS1 537 18H2426	180824G3_7	Standard	40	5.20	20547.65	20547.65	40	bb
7	ST180824G3-7 PFC CS2 537 18H2427	180824G3_8	Standard	40	5.20	20092.00	20092.00	40	bb
8	ST180824G3-8 PFC CS3 537 18H2428	180824G3_9	Standard	40	5.20	19253.48	19253.48	40	bb
9	ST180824G3-9 PFC CS4 537 18H2429	180824G3_10	Standard	40	5.20	18522.15	18522.15	40	bb
10	ST180824G3-10 PFC CS5 537 18H2430	180824G3_11	Standard	40	5.20	15545.10	15545.10	40	bdX
							average		
							19838.10		

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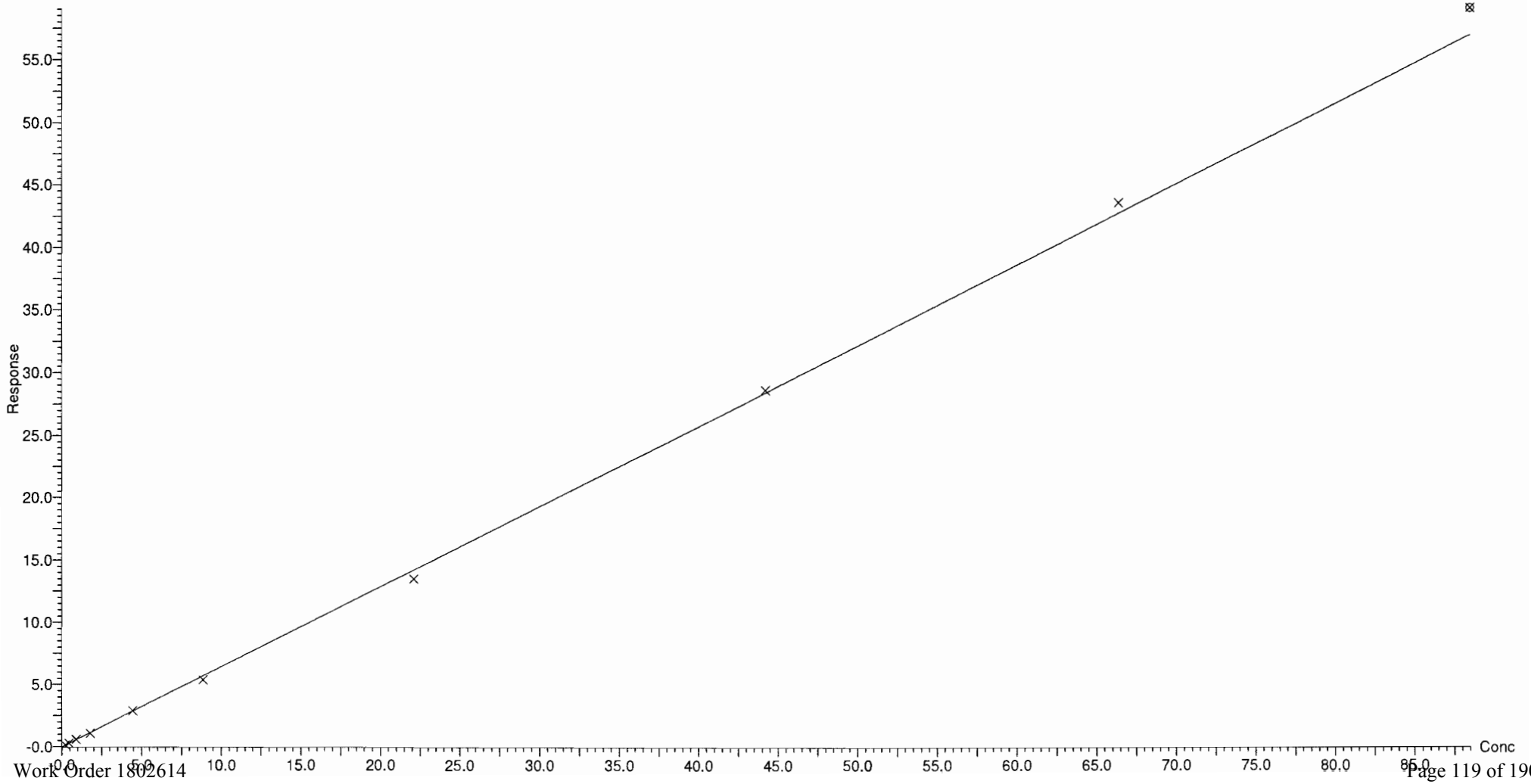
Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999107
Calibration curve: 0.643207 * x
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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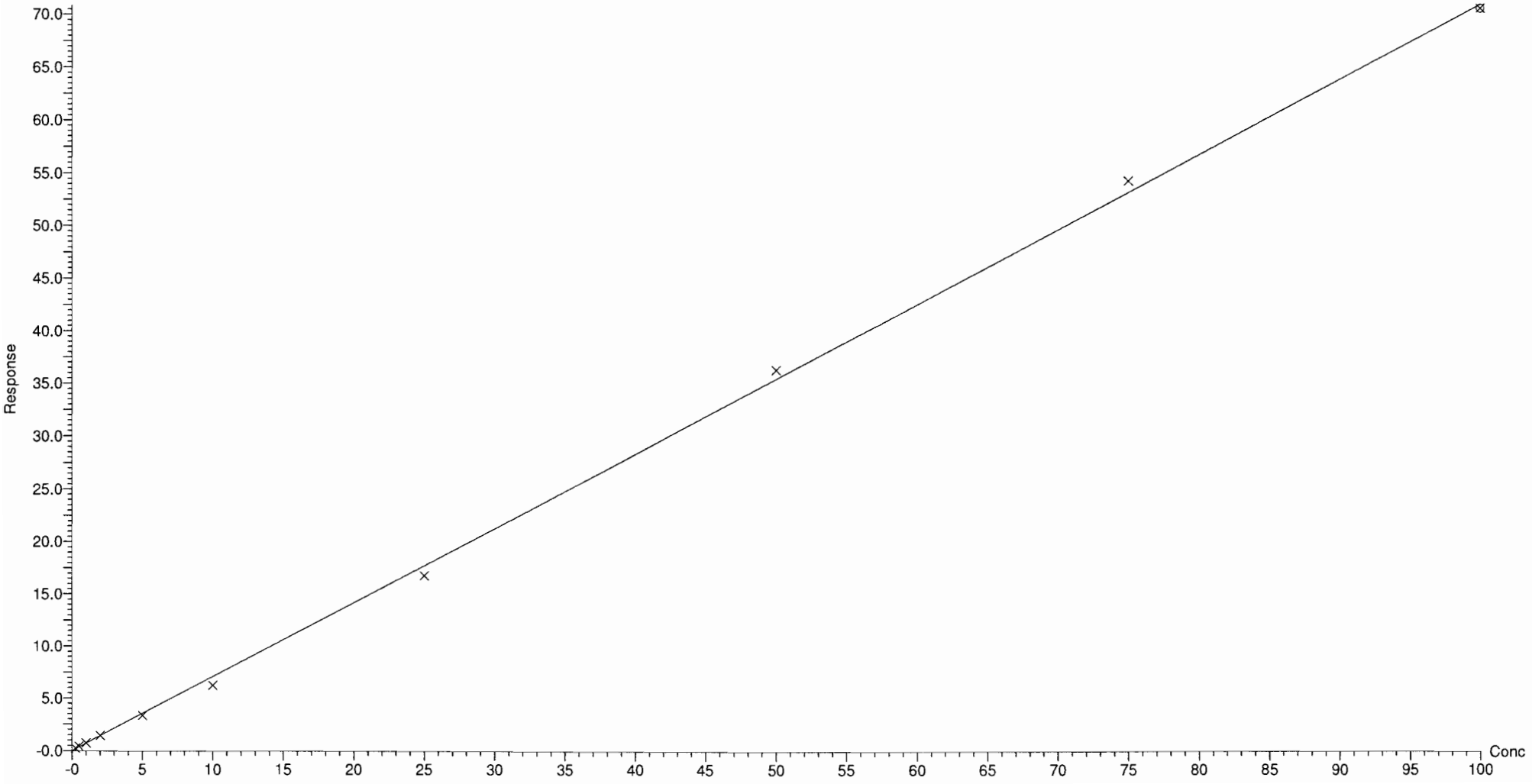
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.997968
Calibration curve: 0.708592 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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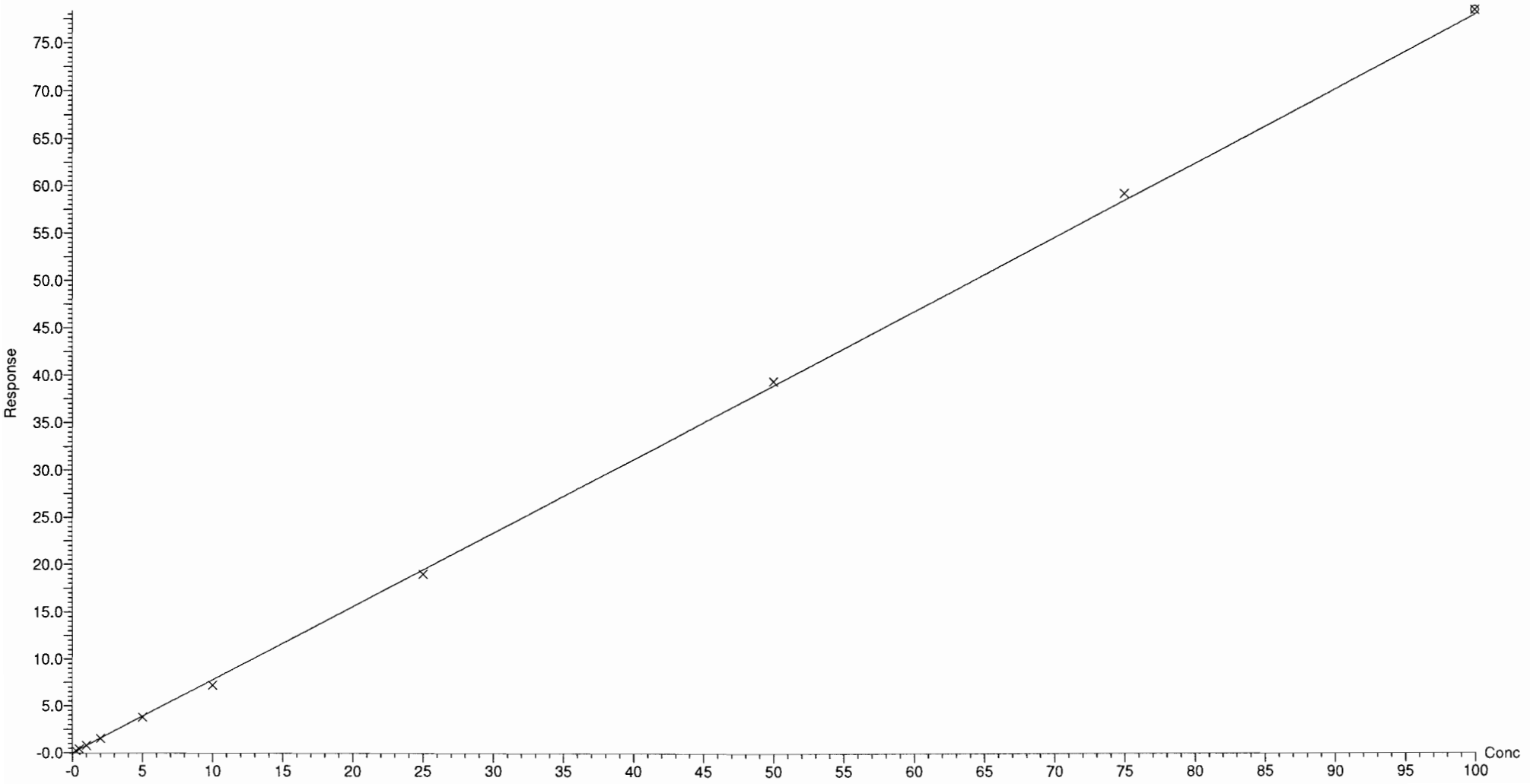
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.999414
Calibration curve: 0.778763 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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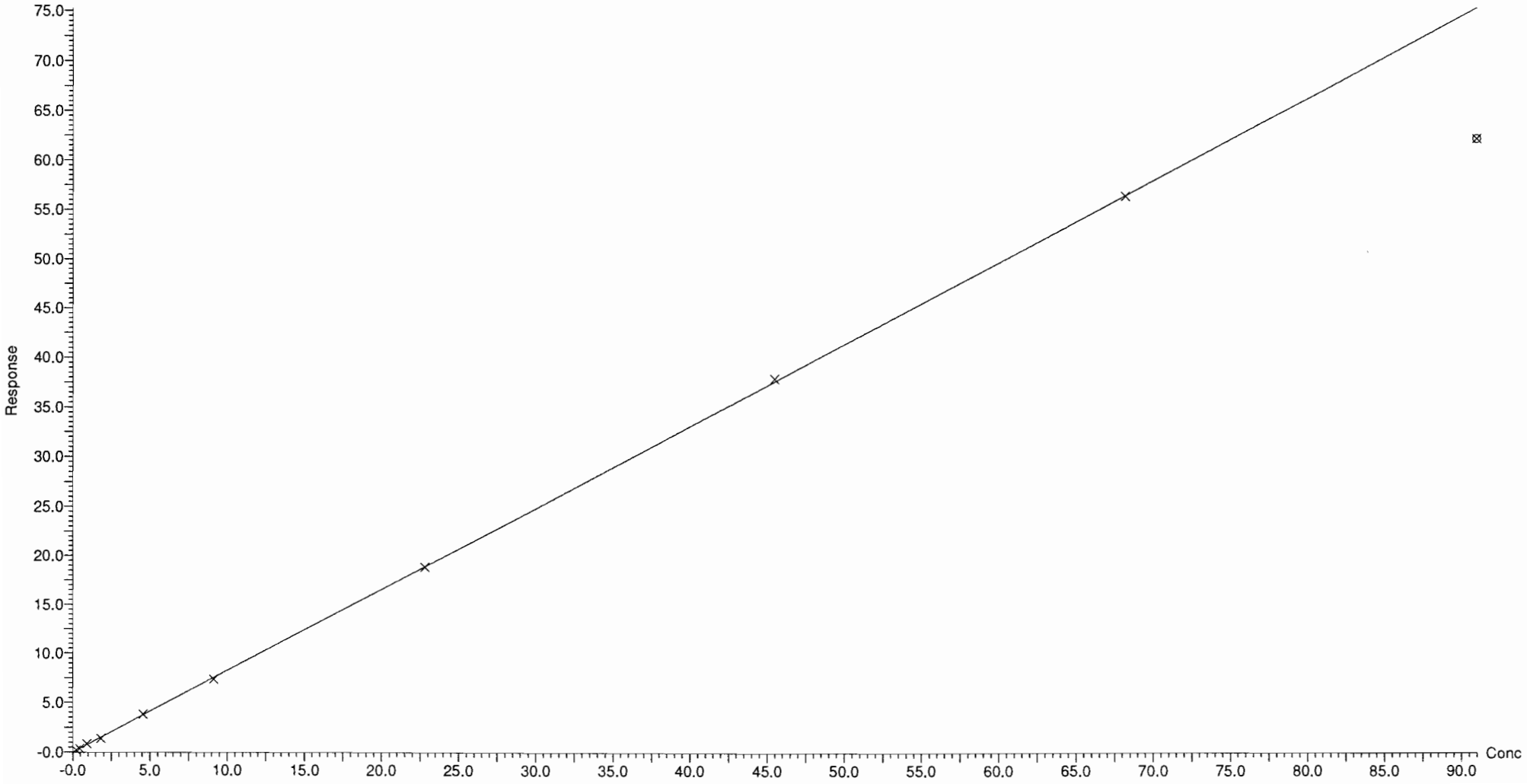
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999767
Calibration curve: 0.827135 * x
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

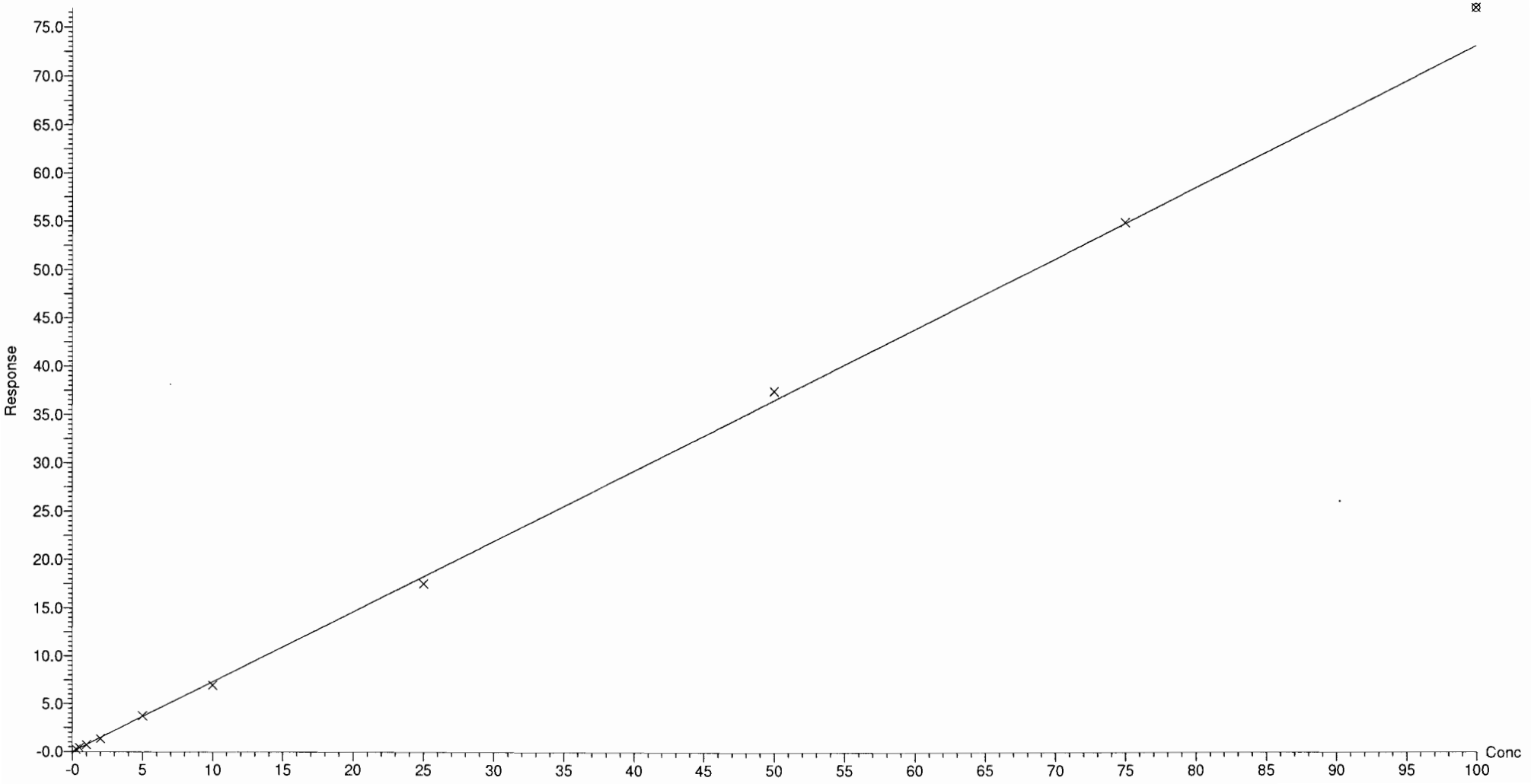


Vista Analytical Laboratory Q1

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFOA
Coefficient of Determination: R^2 = 0.999104
Calibration curve: 0.730538 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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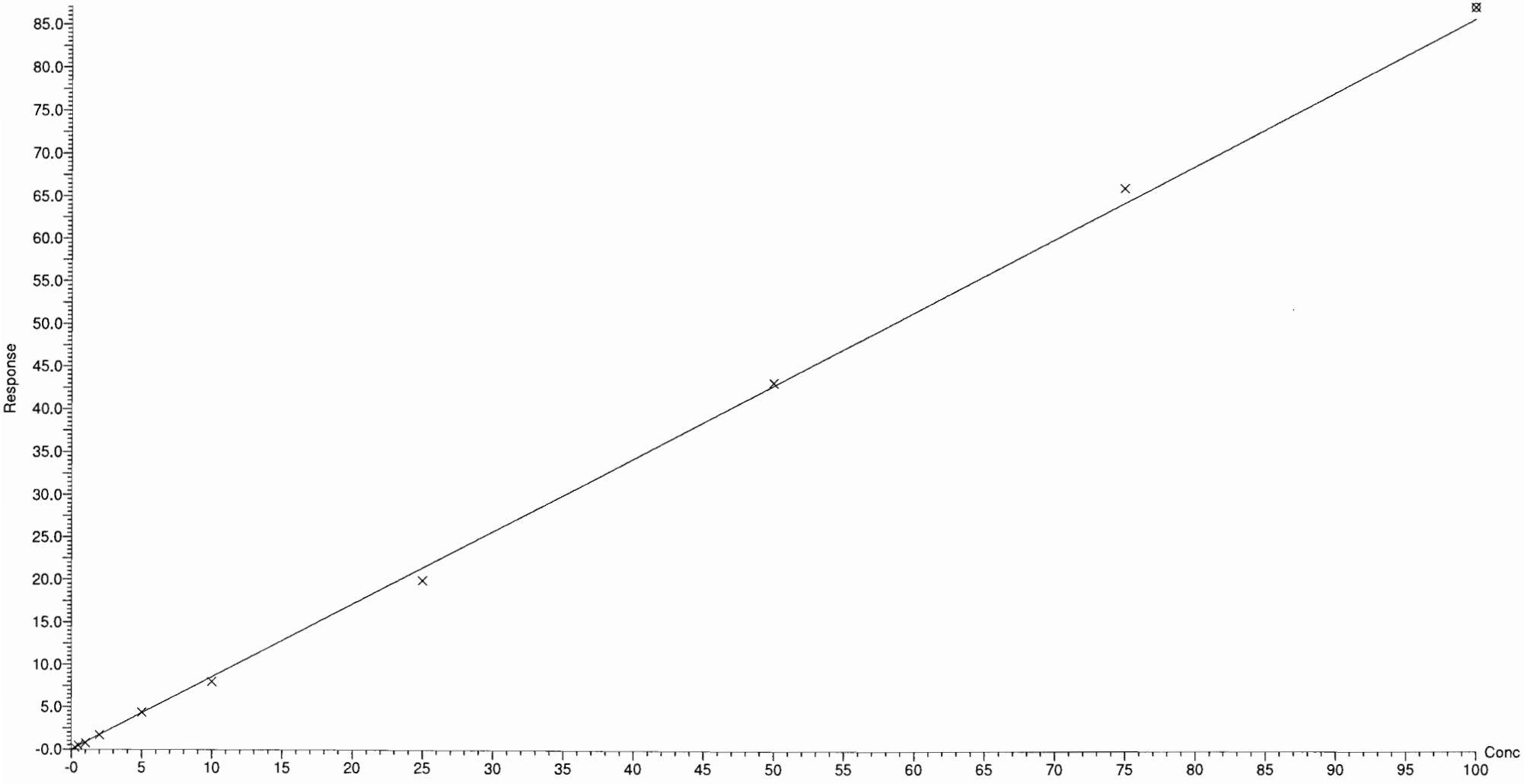
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFNA
Coefficient of Determination: R^2 = 0.998422
Calibration curve: 0.857252 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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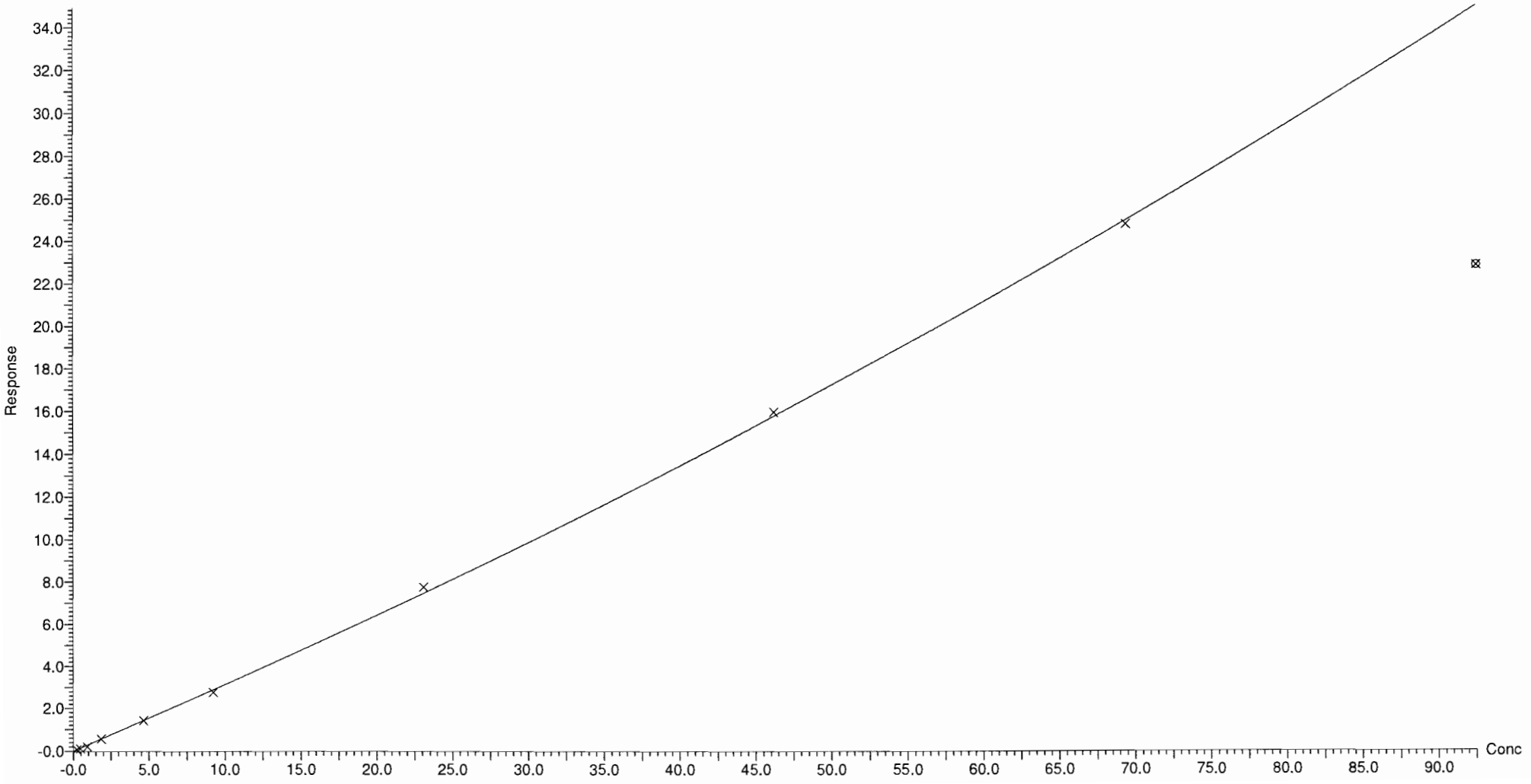
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFOS
Coefficient of Determination: R^2 = 0.999083
Calibration curve: 0.00078426 * x^2 + 0.305082 * x
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



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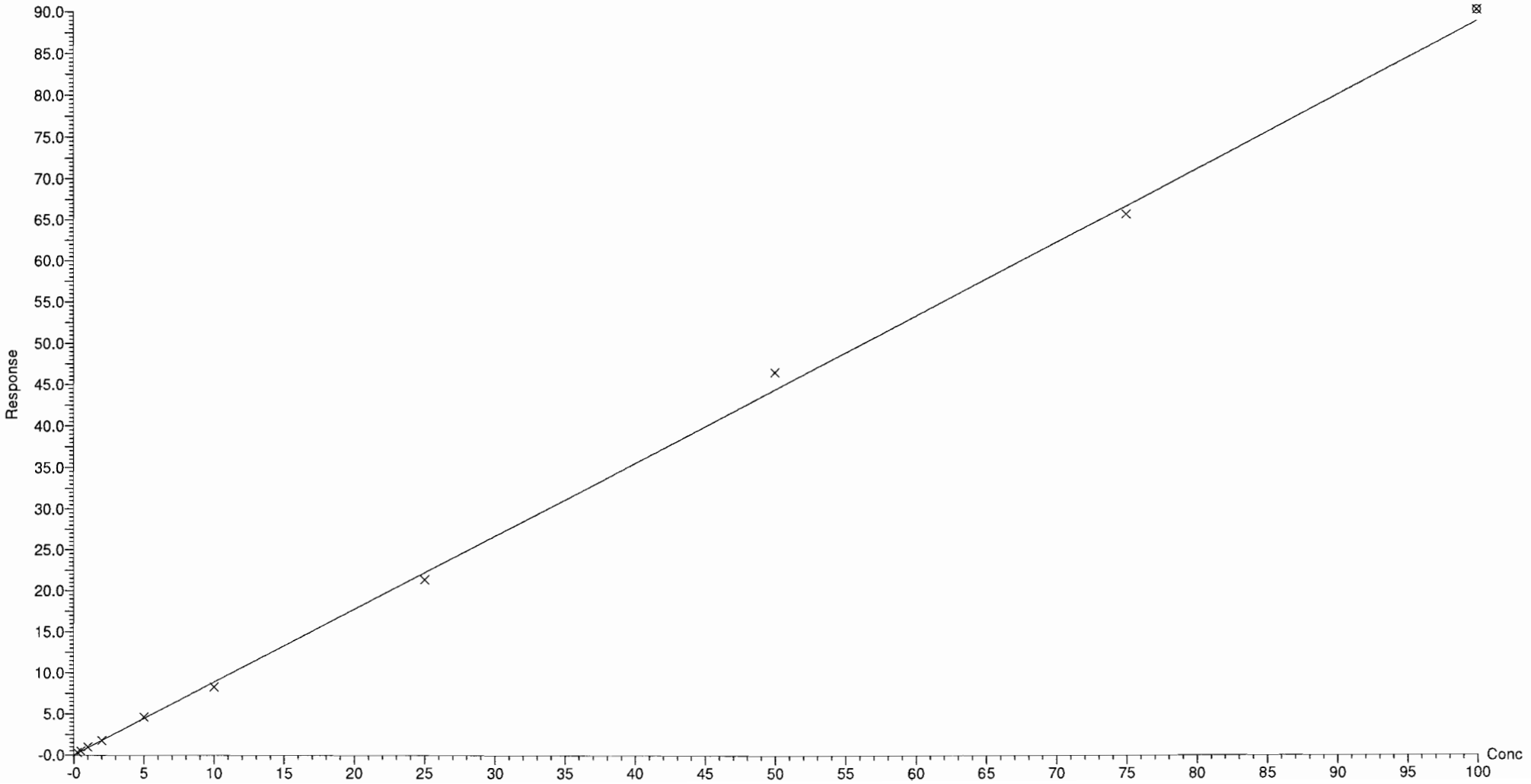
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFDA
Coefficient of Determination: R^2 = 0.998332
Calibration curve: 0.887813 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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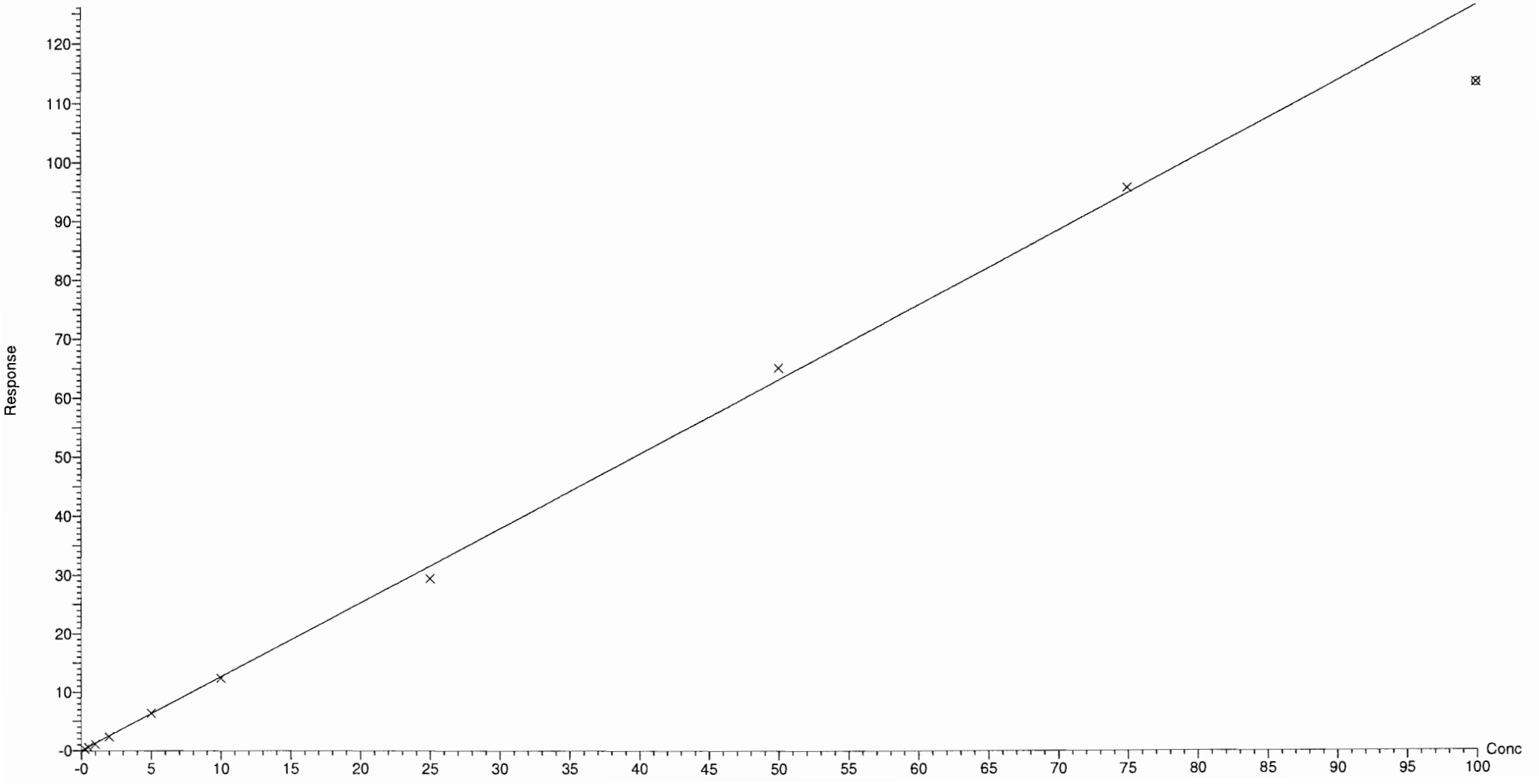
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.998538
Calibration curve: 1.26192 * x
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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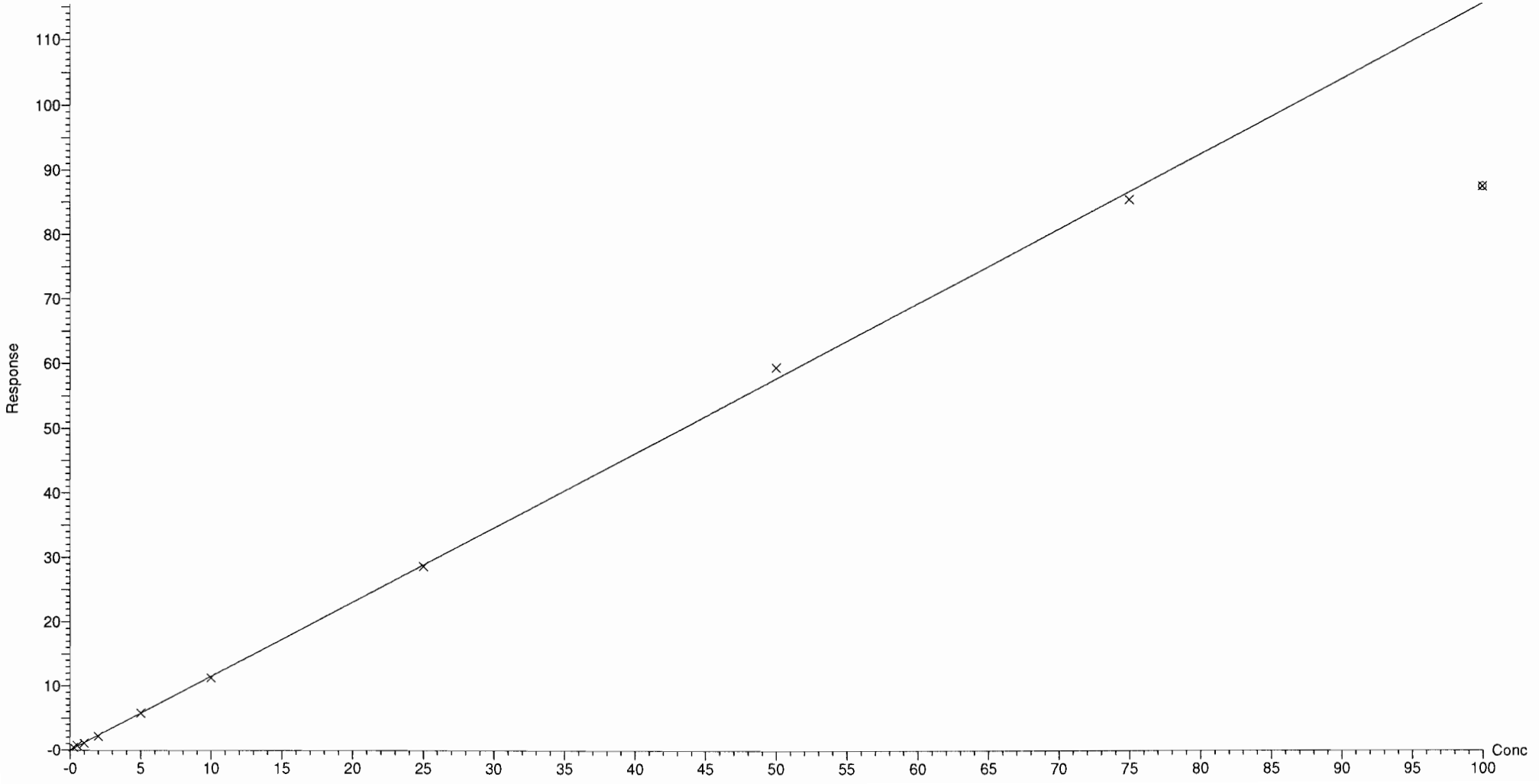
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.999185
Calibration curve: 1.15468 * x
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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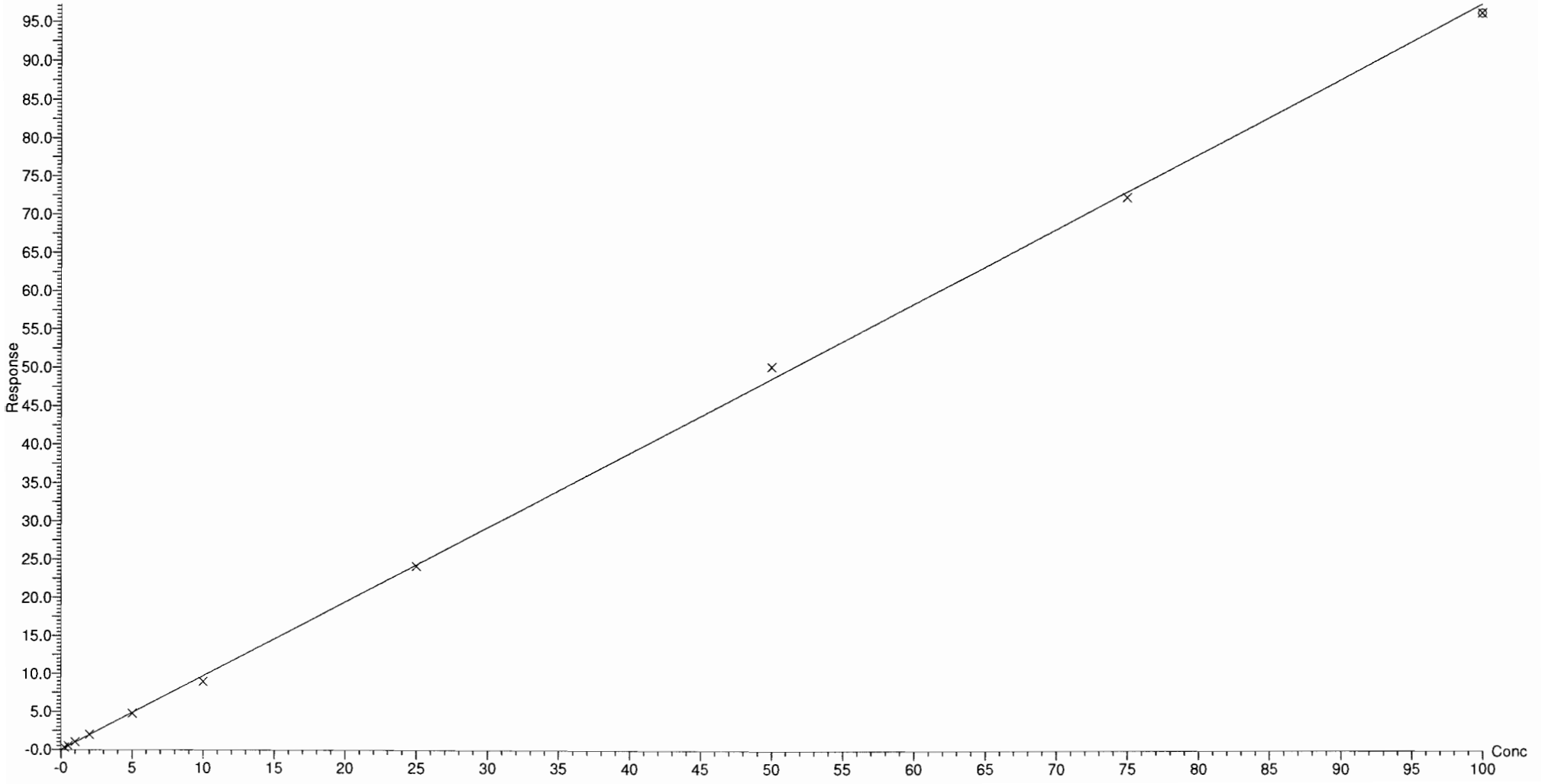
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999185
Calibration curve: 0.972901 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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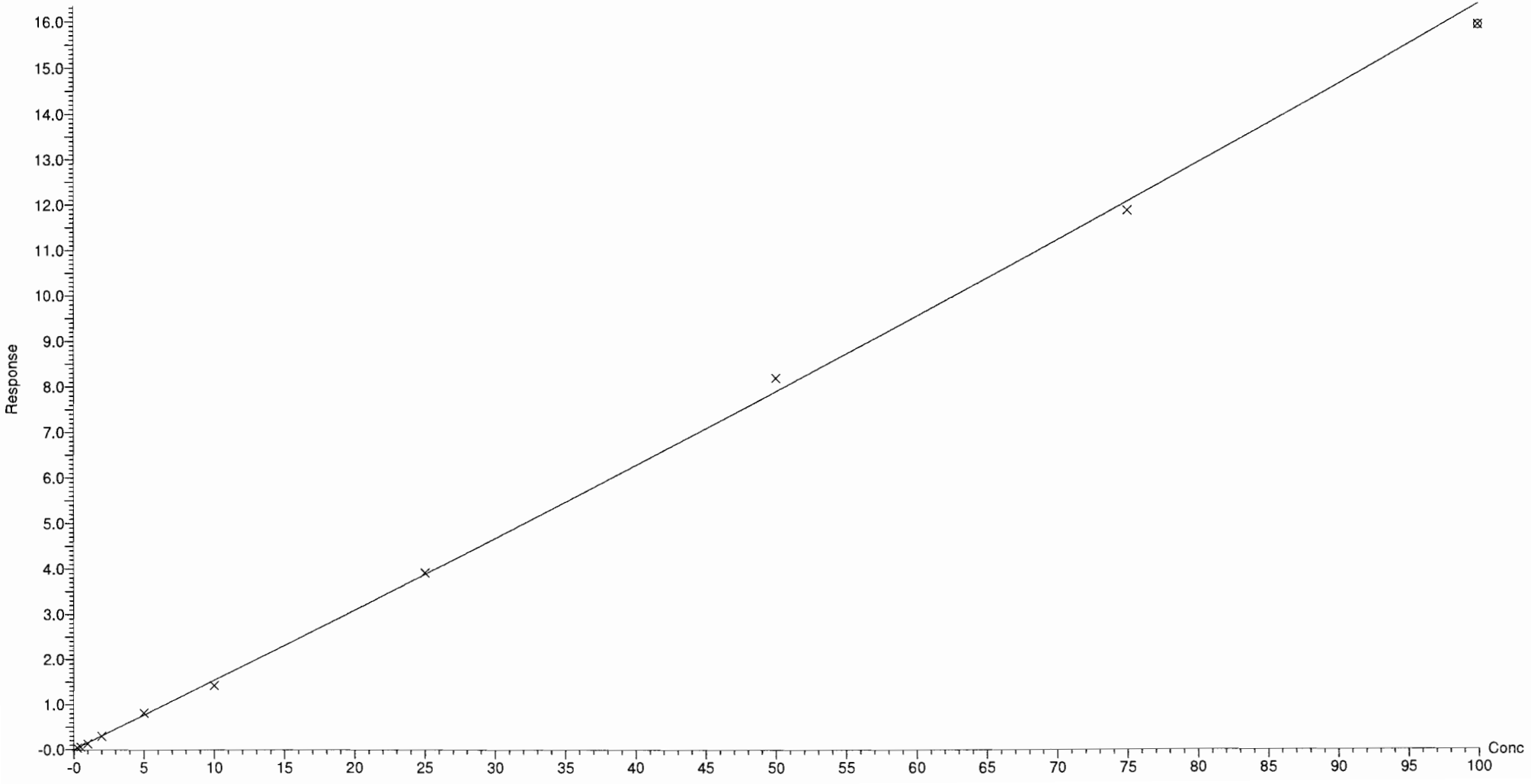
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998591
Calibration curve: 0.000112321 * x^2 + 0.152315 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



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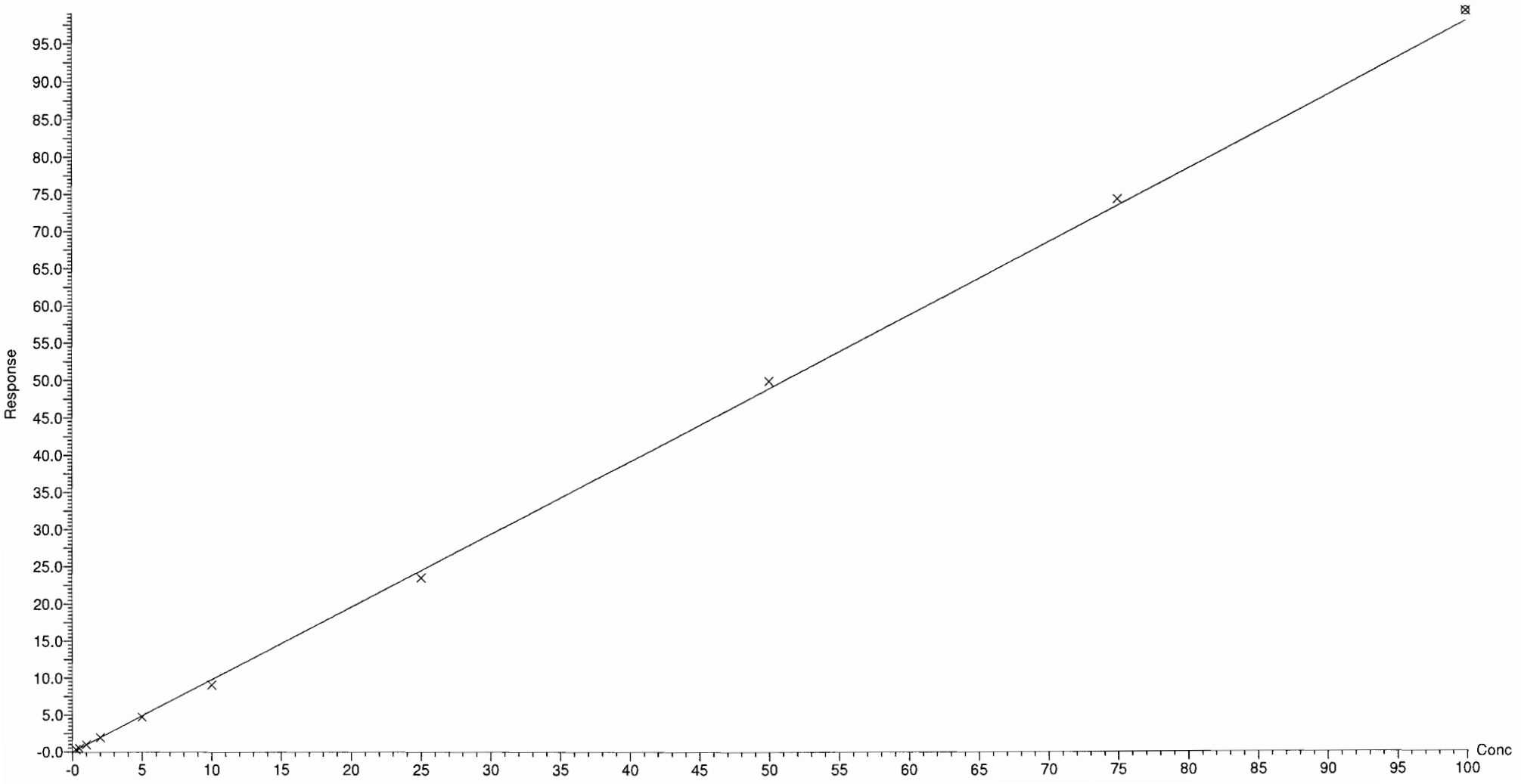
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.999077
Calibration curve: 0.977845 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

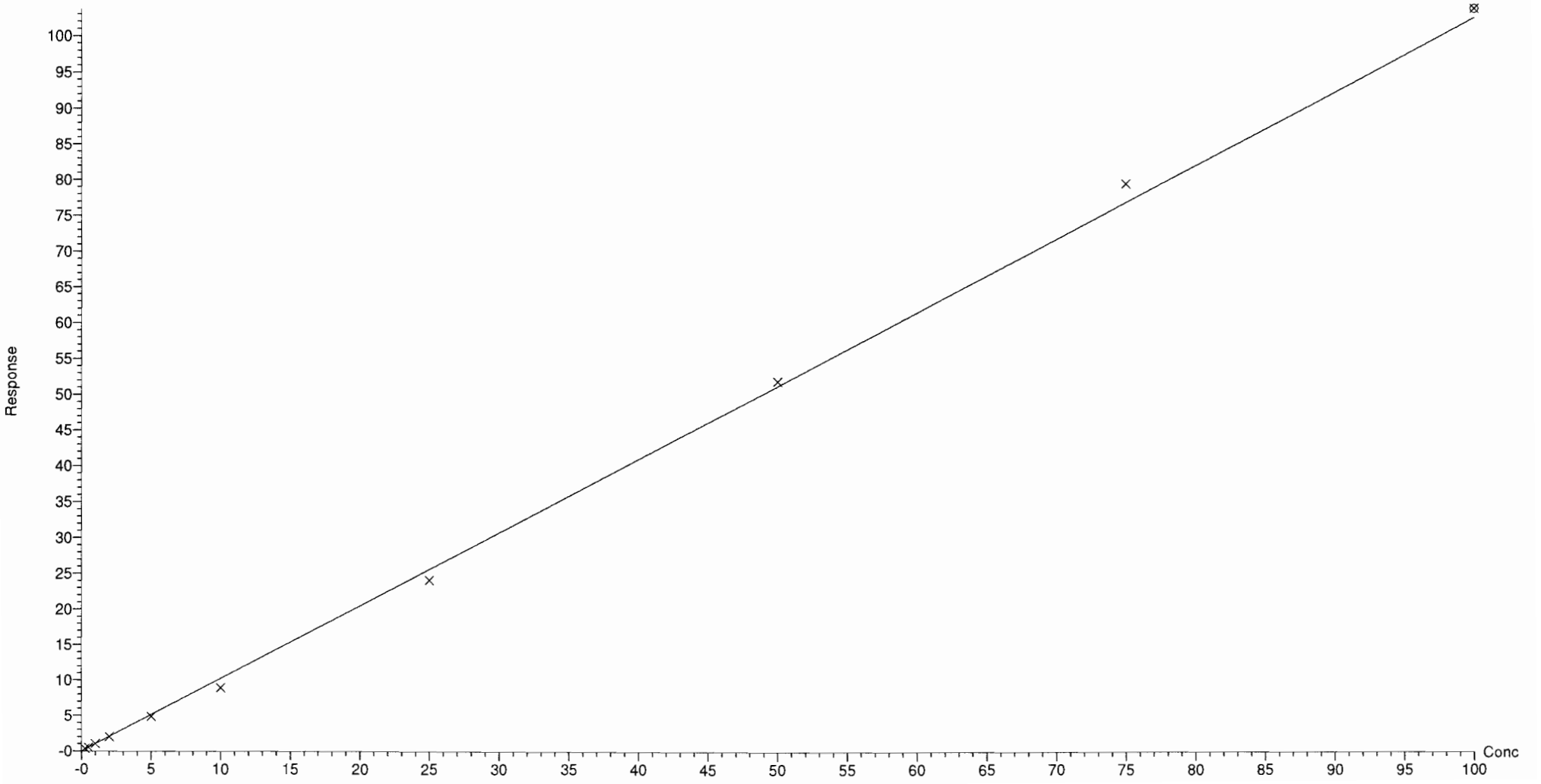


Vista Analytical Laboratory Q1

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:40:41 Pacific Daylight Time

Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.997498
Calibration curve: 1.02449 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



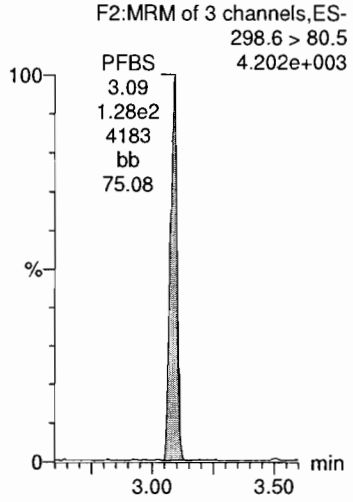
Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180824G3_2, Date: 24-Aug-2018, Time: 17:11:56, ID: ST180824G3-1 PFC CS-4 537 18H2421, Description: PFC CS-4 537 18H2421

PFBS



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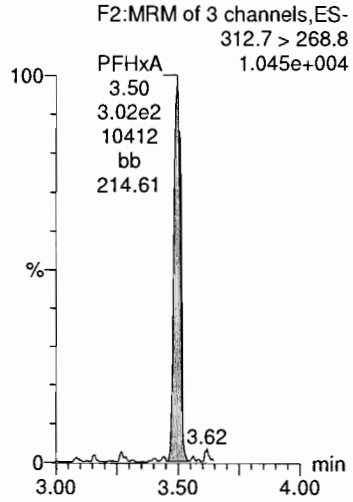
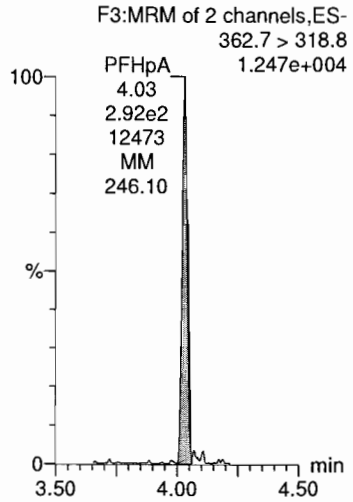
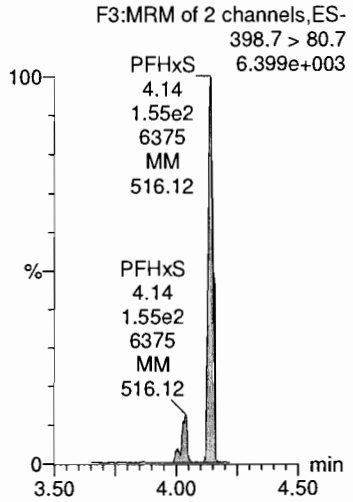


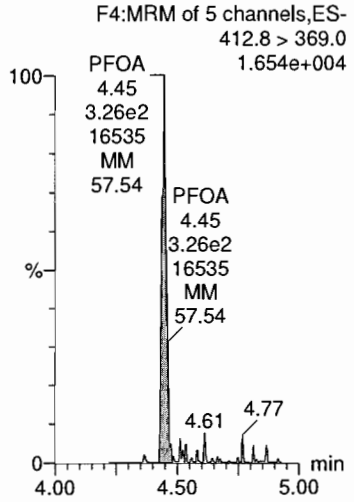
PFHpA



PFHxS



PFOA



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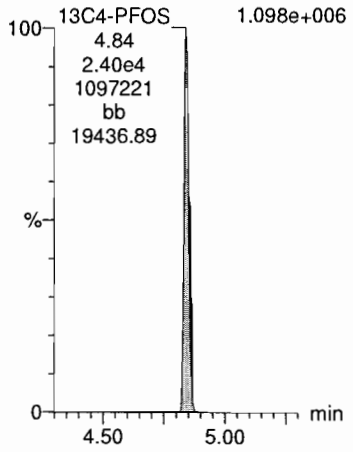

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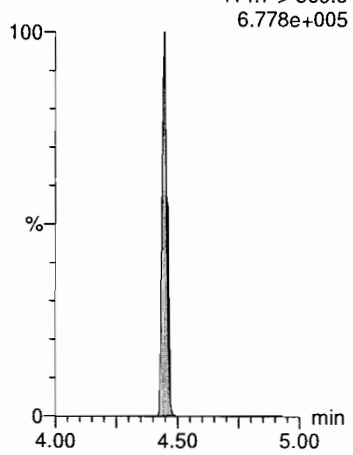

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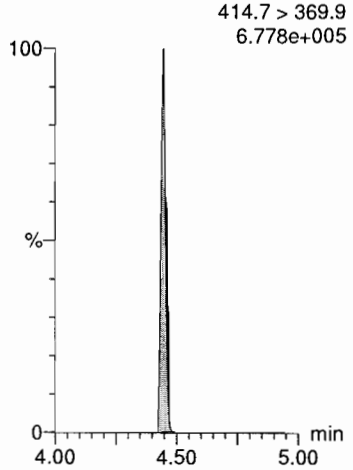

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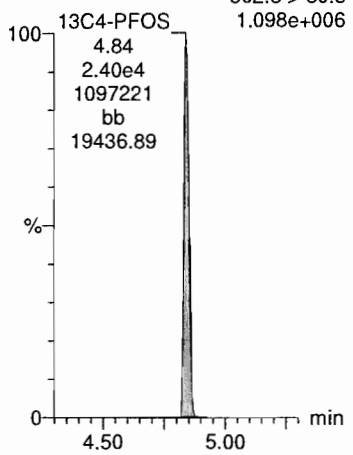

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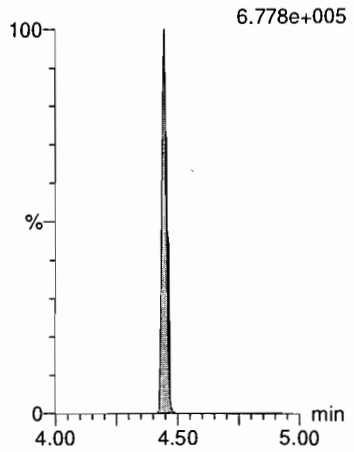
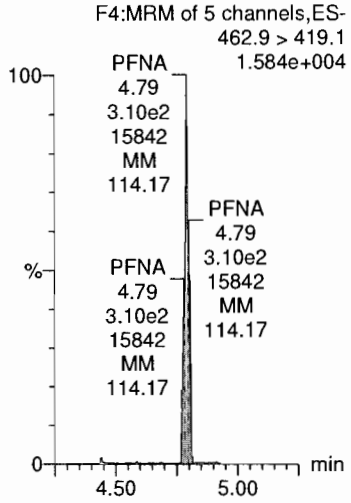


Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_2, Date: 24-Aug-2018, Time: 17:11:56, ID: ST180824G3-1 PFC CS-4 537 18H2421, Description: PFC CS-4 537 18H2421

PFNA



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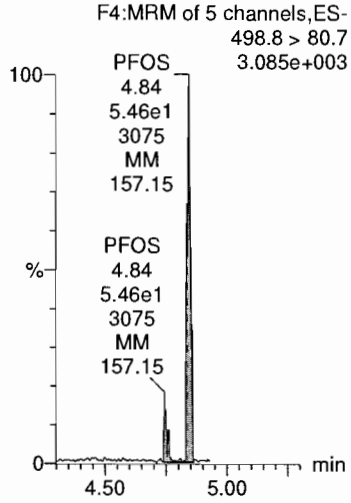

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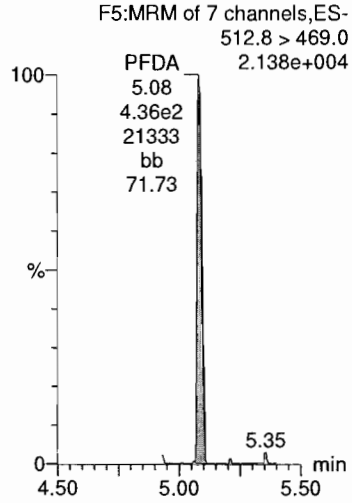

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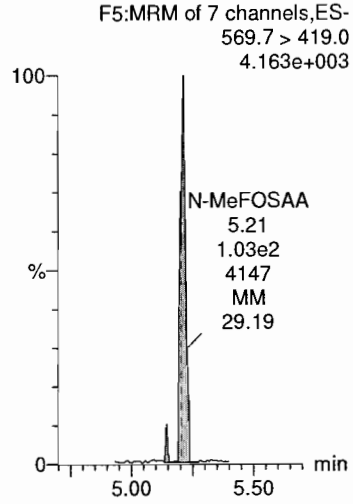

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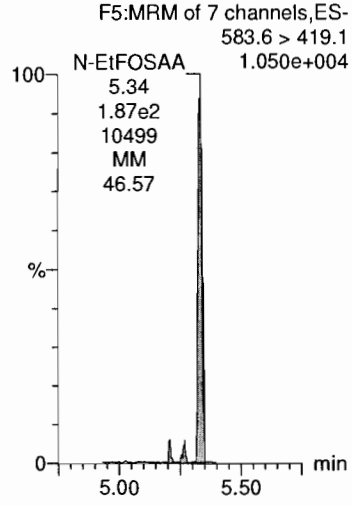

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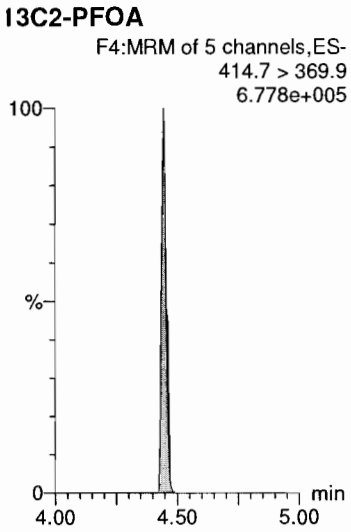

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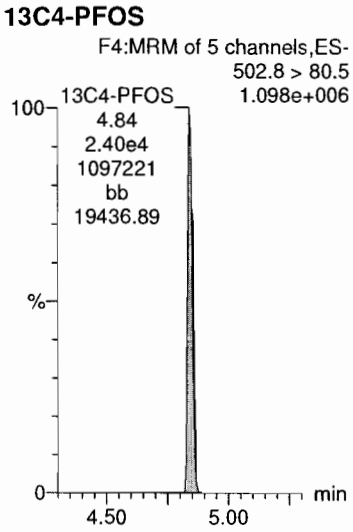

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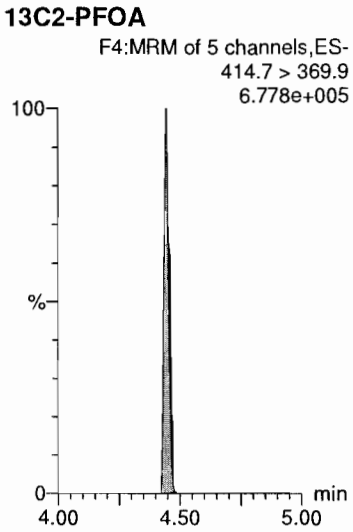

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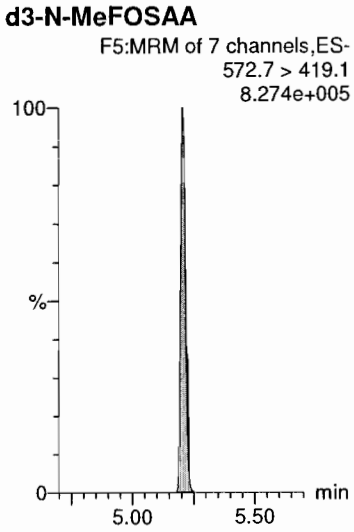

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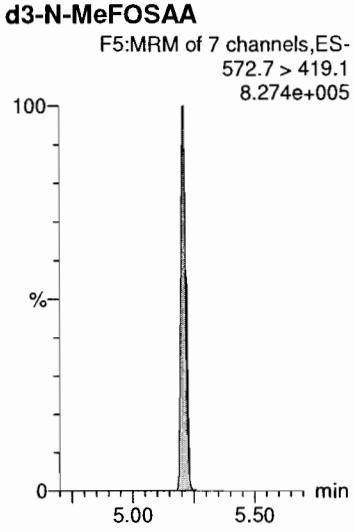

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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Name: 180824G3_2, Date: 24-Aug-2018, Time: 17:11:56, ID: ST180824G3-1 PFC CS-4 537 18H2421, Description: PFC CS-4 537 18H2421

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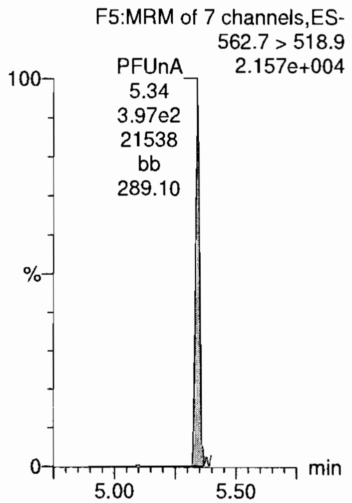

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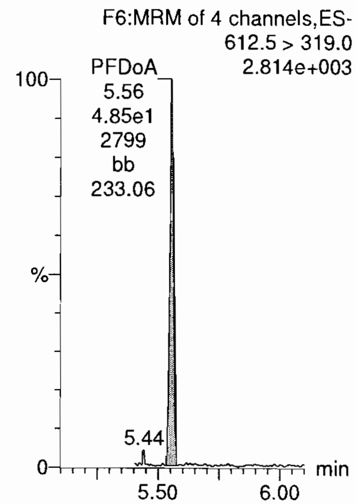

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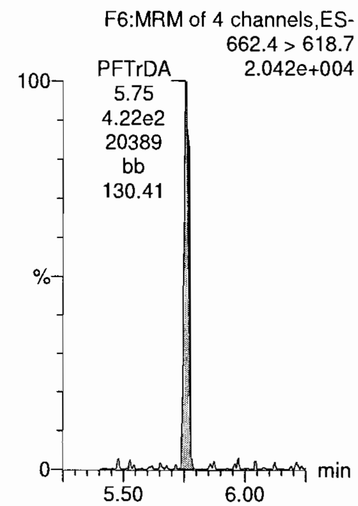

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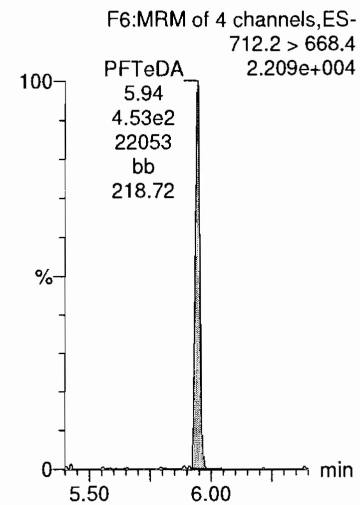

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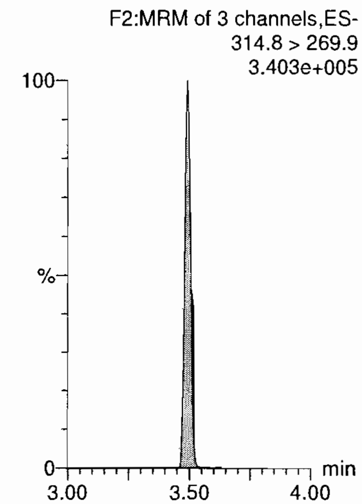

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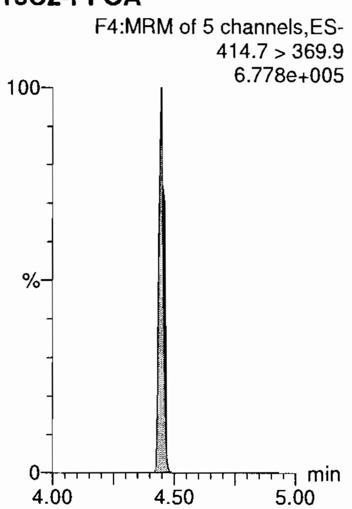

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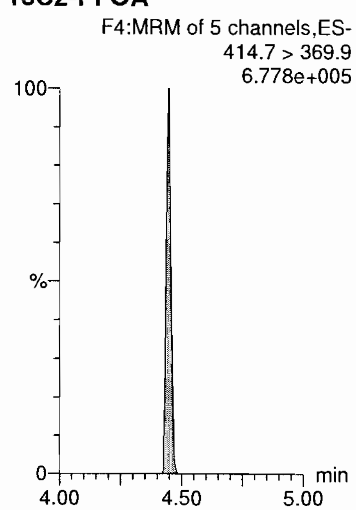

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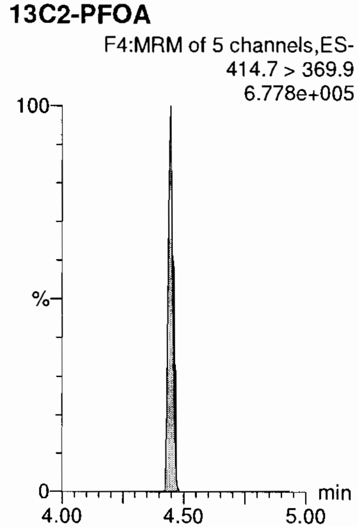

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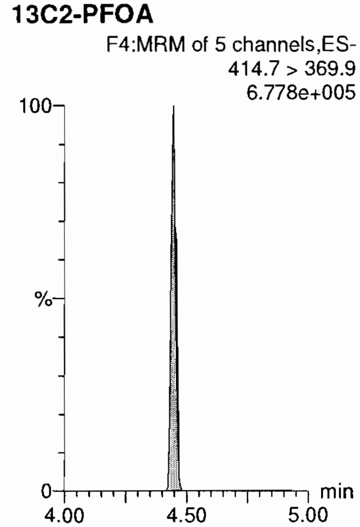

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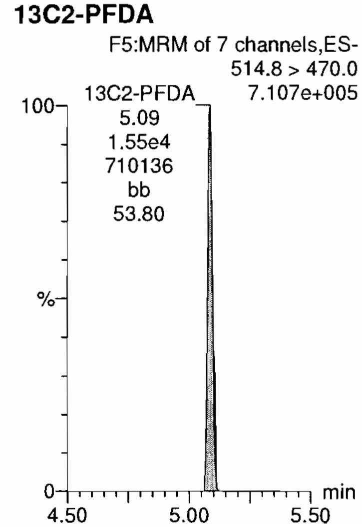

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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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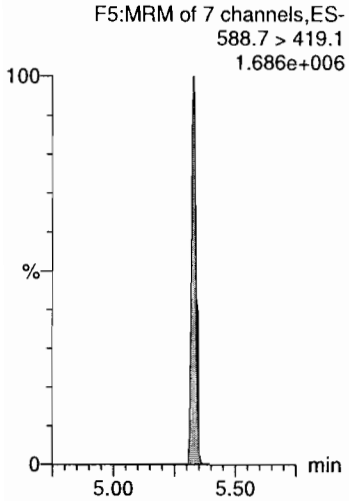
Name: 180824G3_2, Date: 24-Aug-2018, Time: 17:11:56, ID: ST180824G3-1 PFC CS-4 537 18H2421, Description: PFC CS-4 537 18H2421

d5-N-EtFOSAA



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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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Name: 180824G3_3, Date: 24-Aug-2018, Time: 17:23:58, ID: ST180824G3-2 PFC CS-3 537 18H2422, Description: PFC CS-3 537 18H2422

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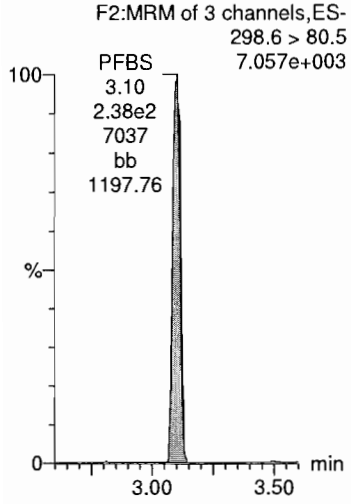

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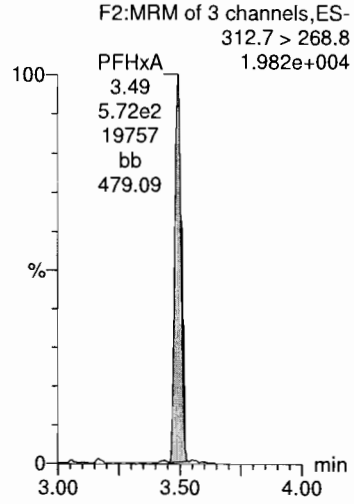

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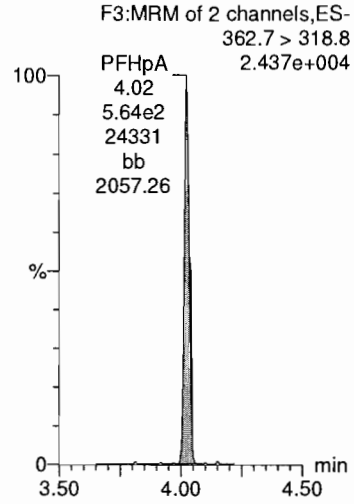

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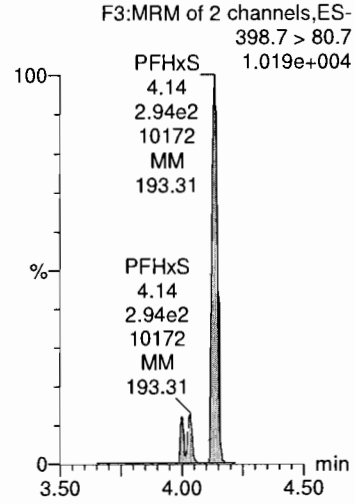
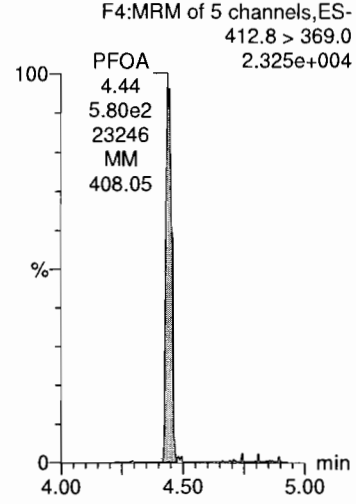


PFOA



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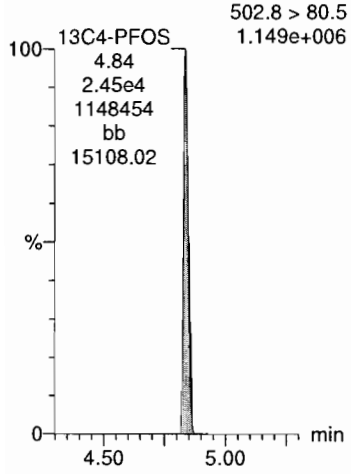

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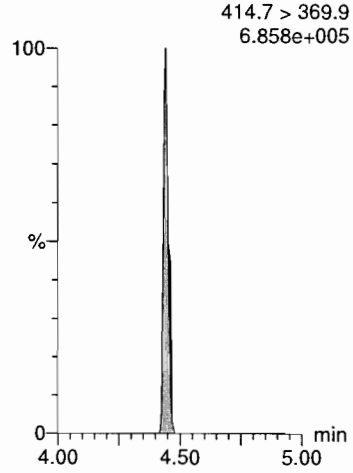

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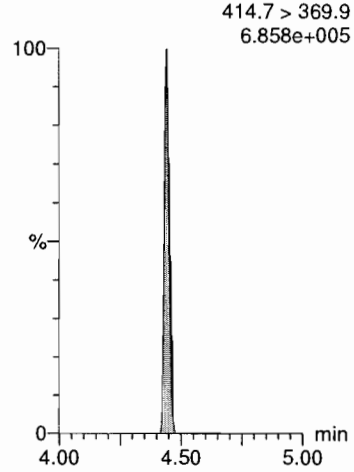

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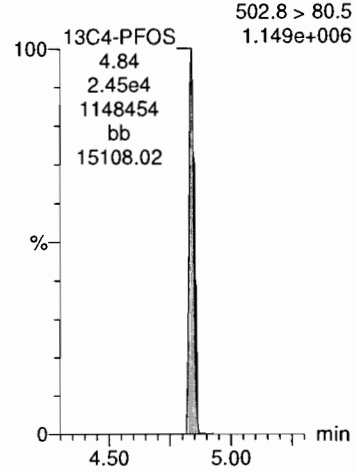

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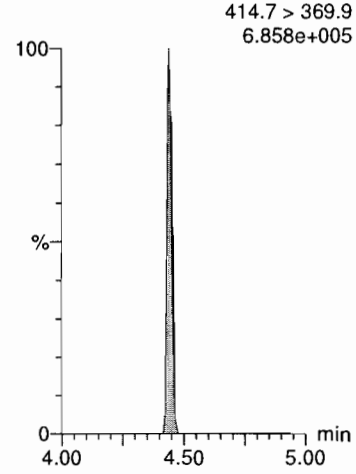

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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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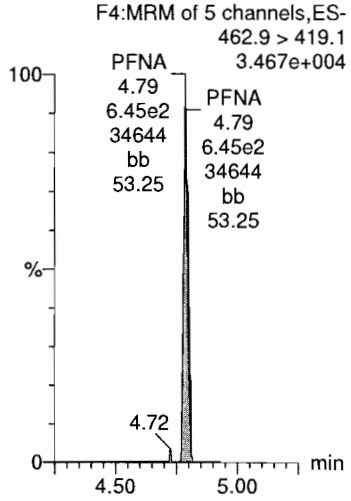
Name: 180824G3_3, Date: 24-Aug-2018, Time: 17:23:58, ID: ST180824G3-2 PFC CS-3 537 18H2422, Description: PFC CS-3 537 18H2422

PFNA



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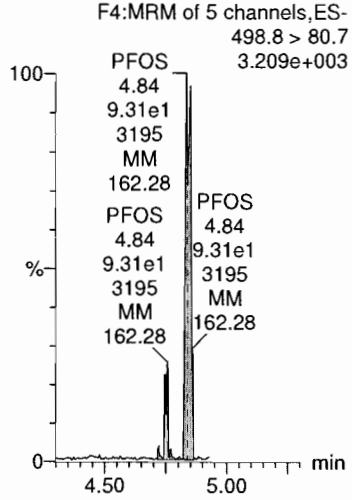

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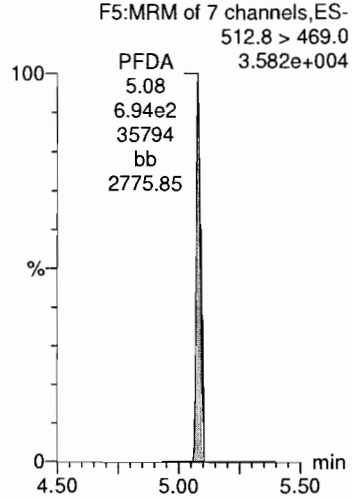

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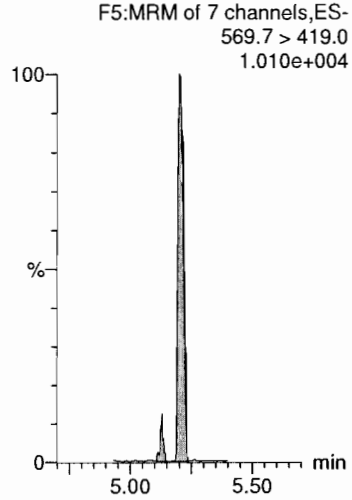

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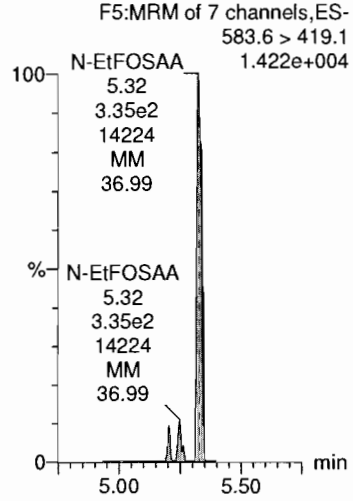

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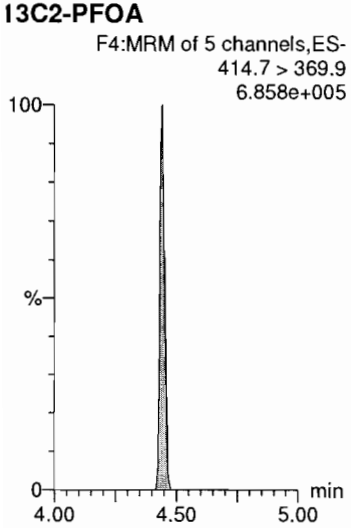

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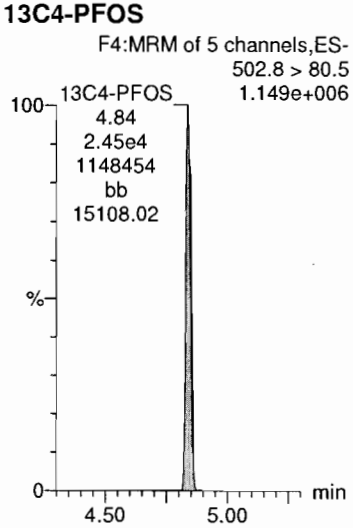

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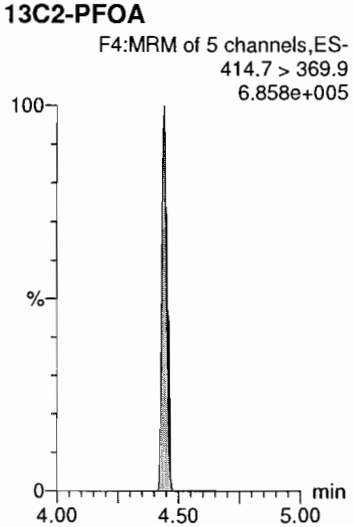

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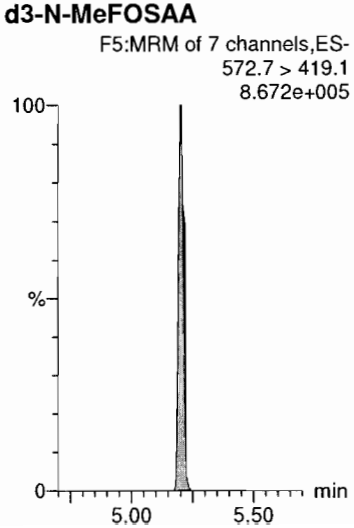

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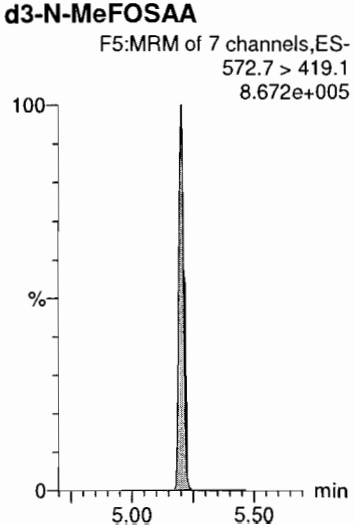

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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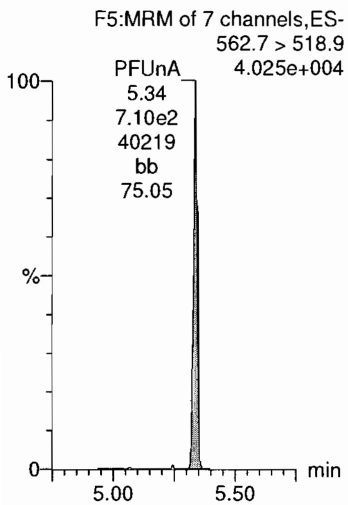
Name: 180824G3_3, Date: 24-Aug-2018, Time: 17:23:58, ID: ST180824G3-2 PFC CS-3 537 18H2422, Description: PFC CS-3 537 18H2422

PFUnA



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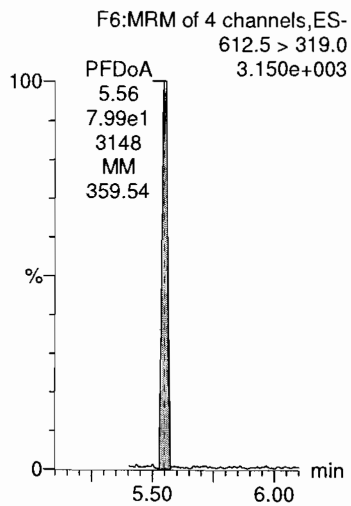

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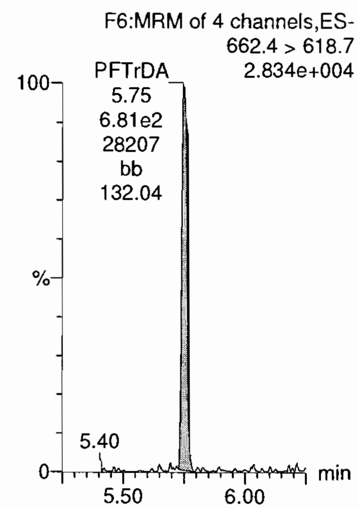
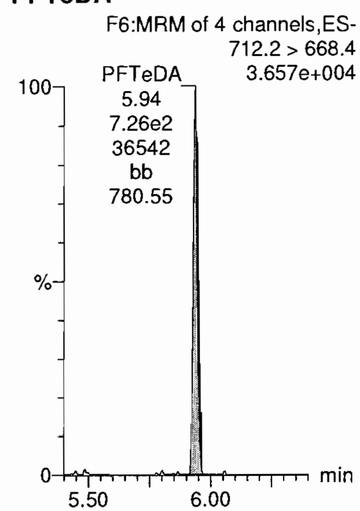
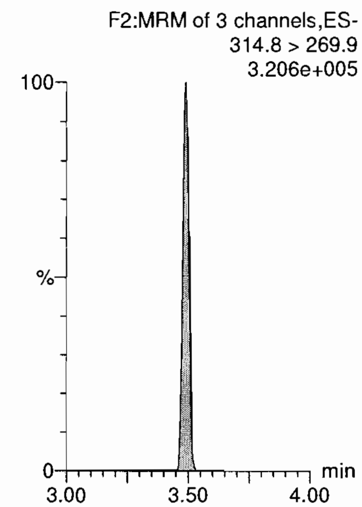


PFTeDA



13C2-PFHxA



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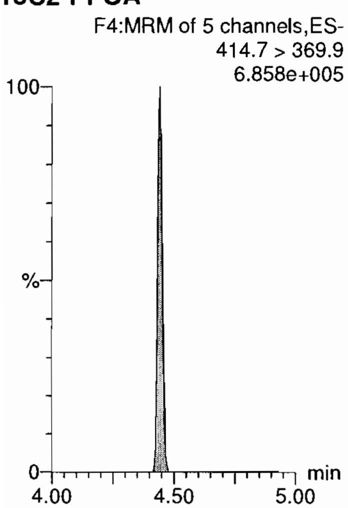

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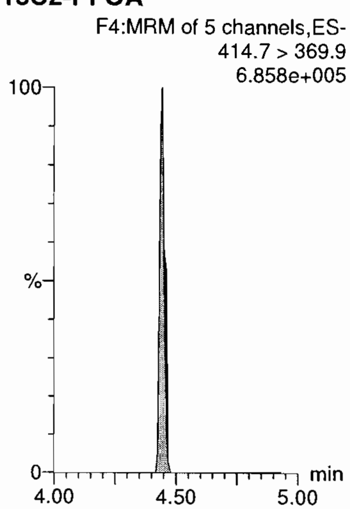

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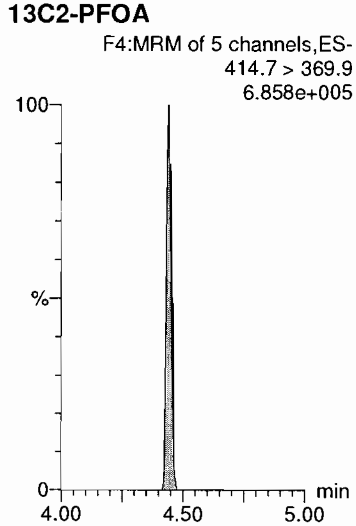

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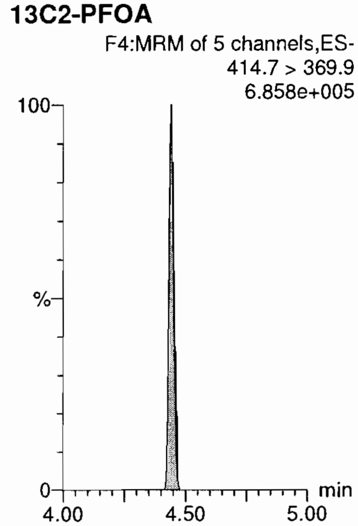

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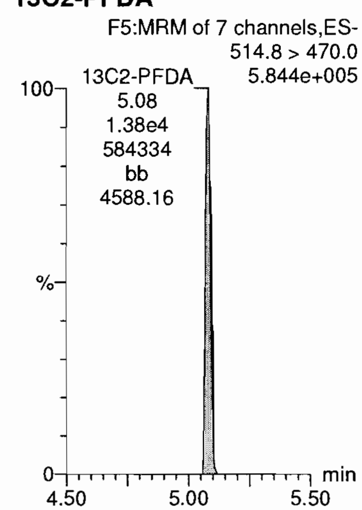

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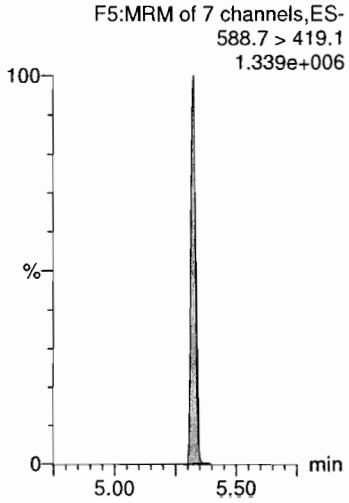
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_3, Date: 24-Aug-2018, Time: 17:23:58, ID: ST180824G3-2 PFC CS-3 537 18H2422, Description: PFC CS-3 537 18H2422

d5-N-EtFOSAA



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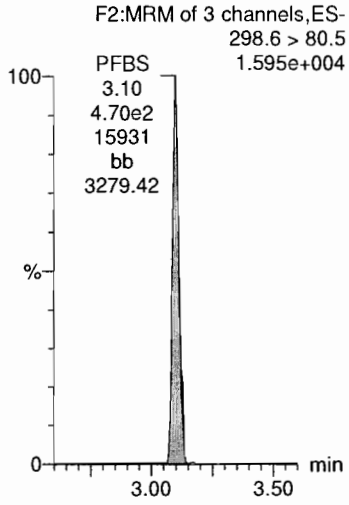
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_4, Date: 24-Aug-2018, Time: 17:37:03, ID: ST180824G3-3 PFC CS-2 537 18H2423, Description: PFC CS-2 537 18H2423

PFBS



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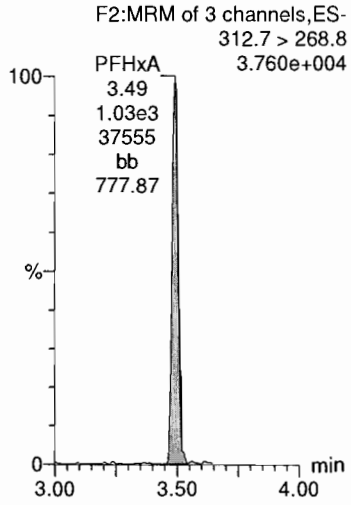

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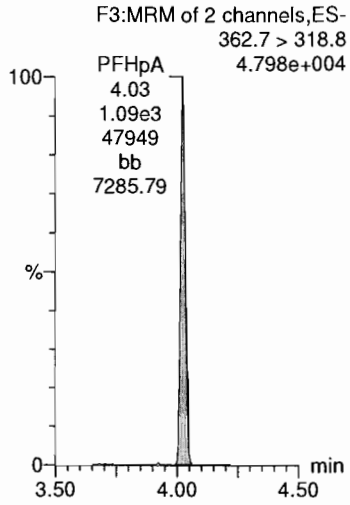

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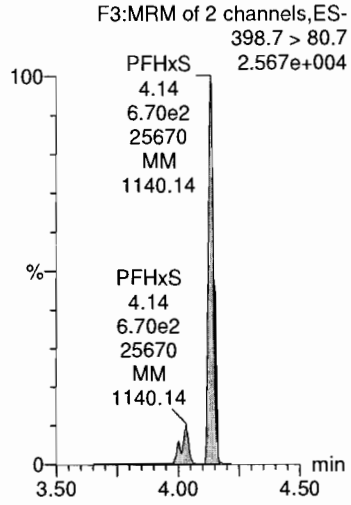
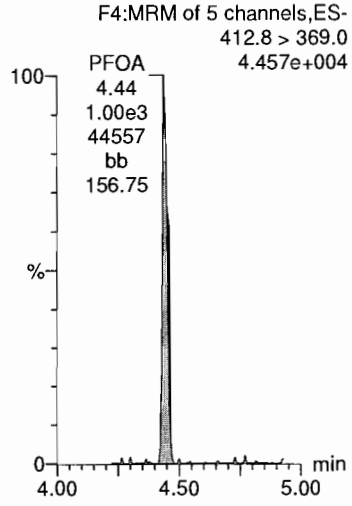
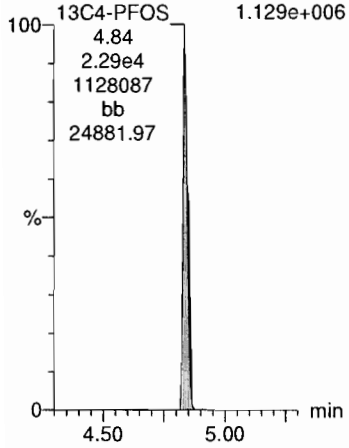


PFOA



13C4-PFOS



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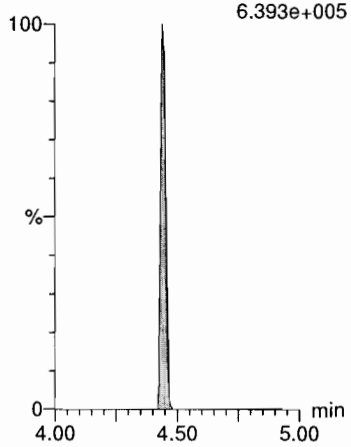

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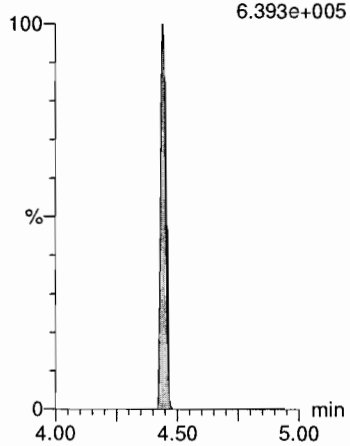

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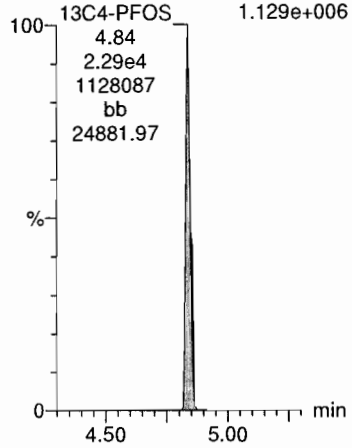

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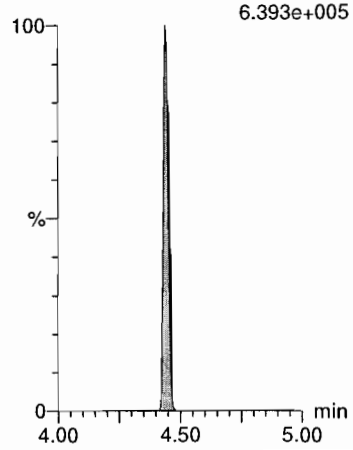

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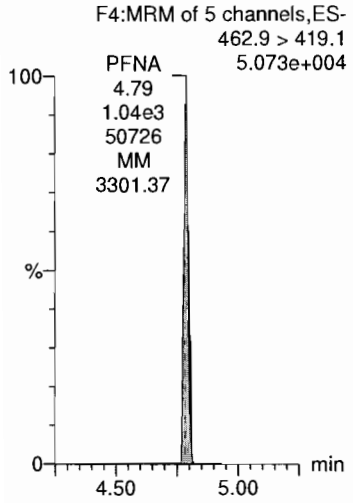
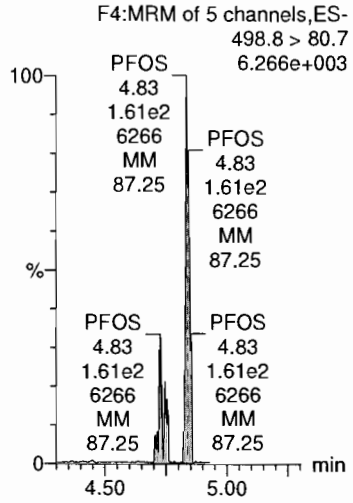
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_4, Date: 24-Aug-2018, Time: 17:37:03, ID: ST180824G3-3 PFC CS-2 537 18H2423, Description: PFC CS-2 537 18H2423

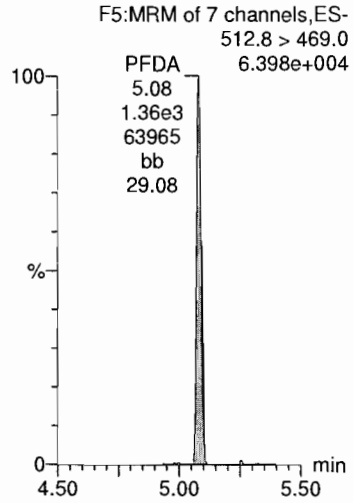
PFNA



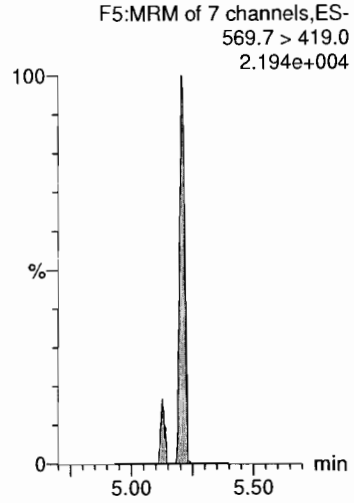
PFOS



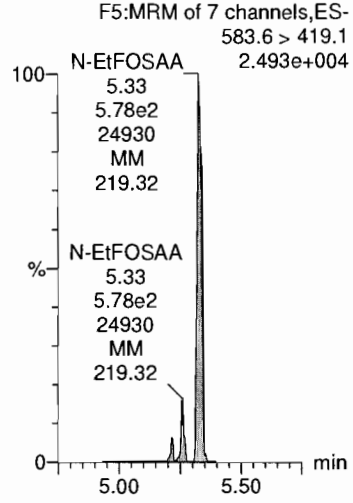
PFDA



N-MeFOSAA



N-EtFOSAA



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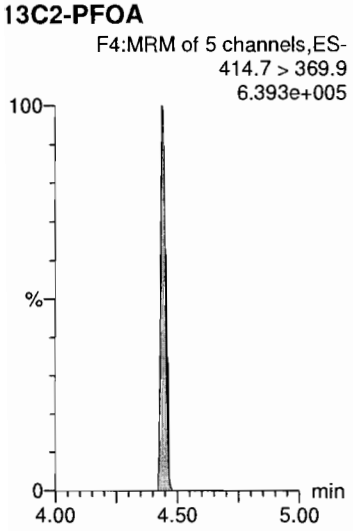

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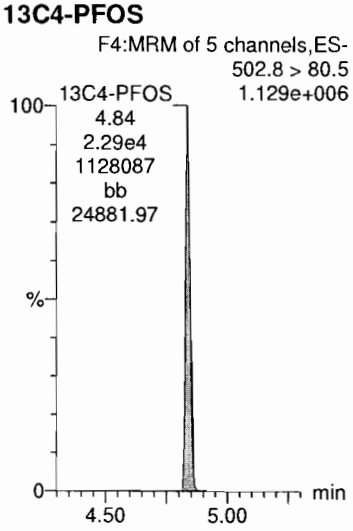

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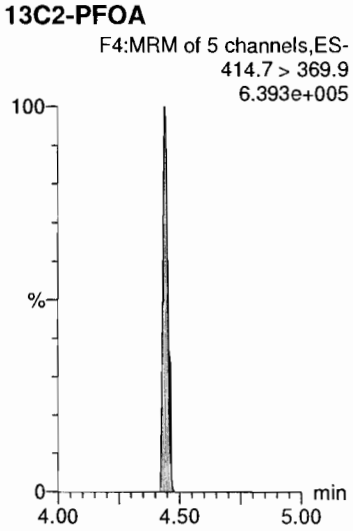

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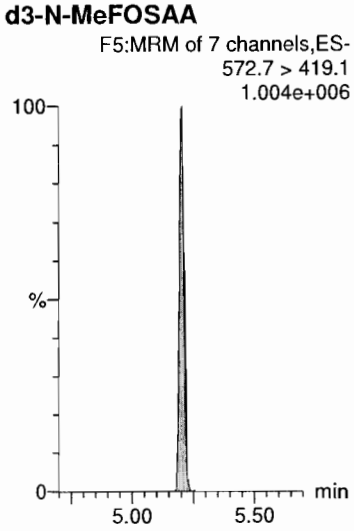

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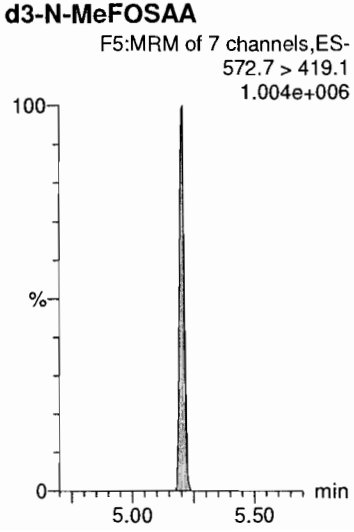

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Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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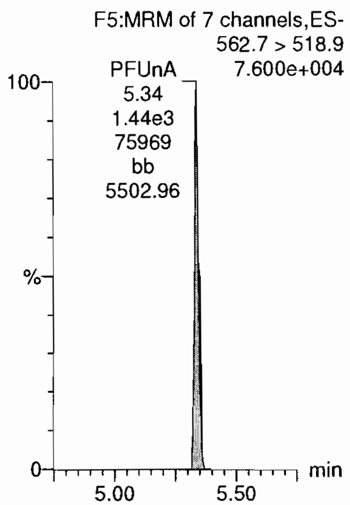
Name: 180824G3_4, Date: 24-Aug-2018, Time: 17:37:03, ID: ST180824G3-3 PFC CS-2 537 18H2423, Description: PFC CS-2 537 18H2423

PFUnA



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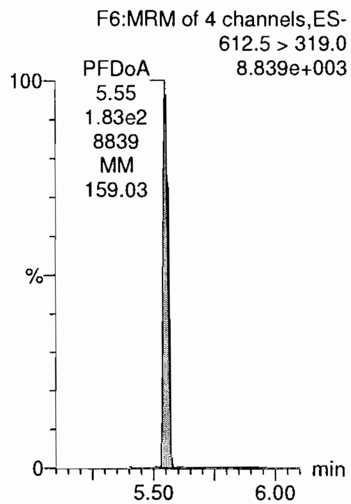

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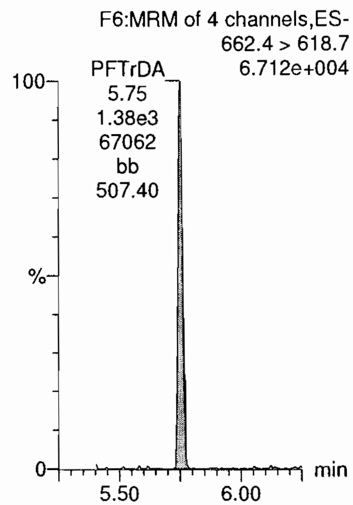
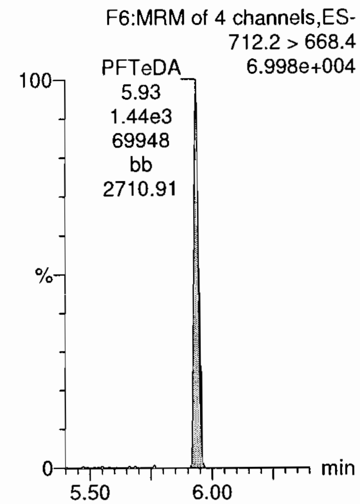
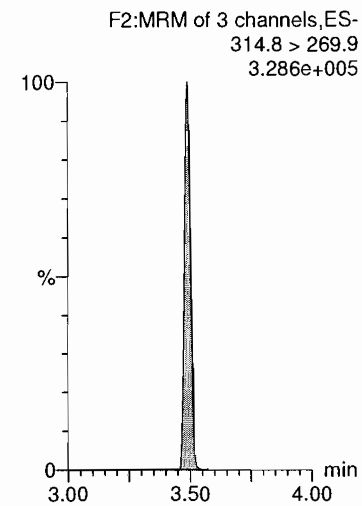


PFTeDA



13C2-PFHxA



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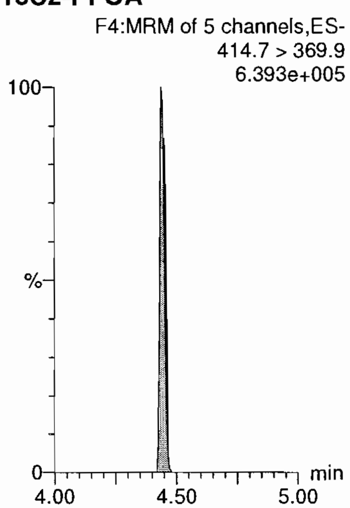

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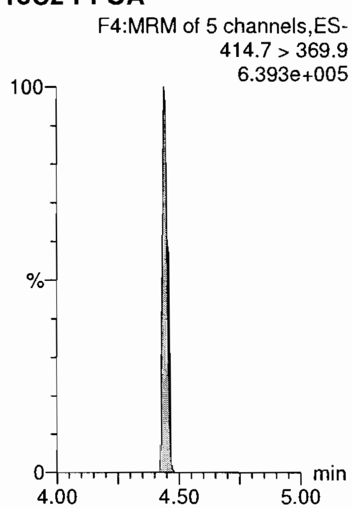

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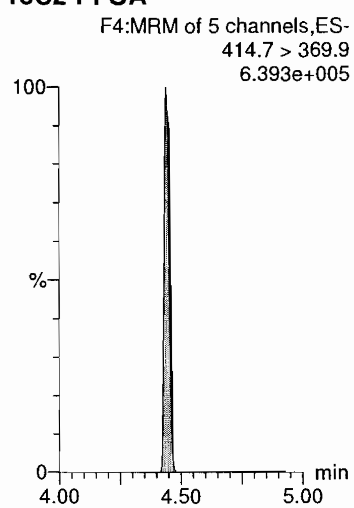

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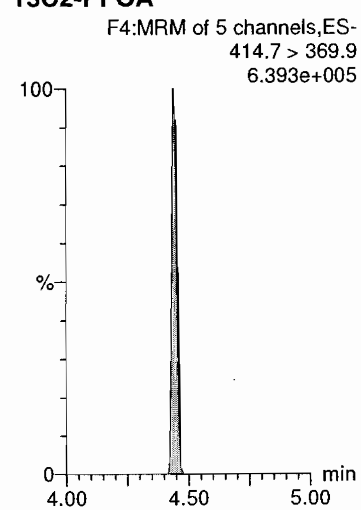

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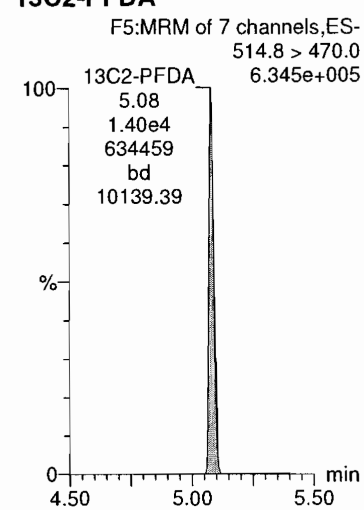

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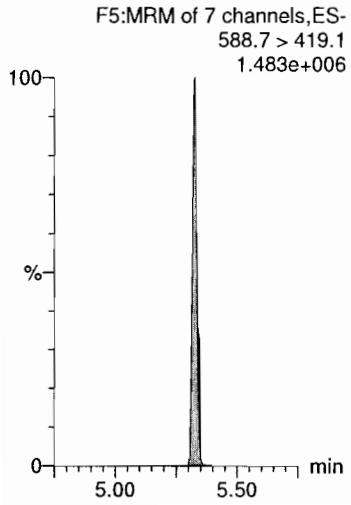
Name: 180824G3_4, Date: 24-Aug-2018, Time: 17:37:03, ID: ST180824G3-3 PFC CS-2 537 18H2423, Description: PFC CS-2 537 18H2423

d5-N-EtFOSAA



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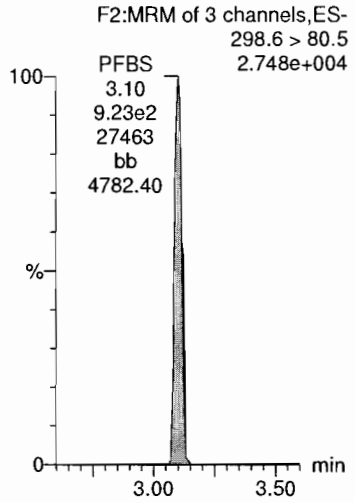
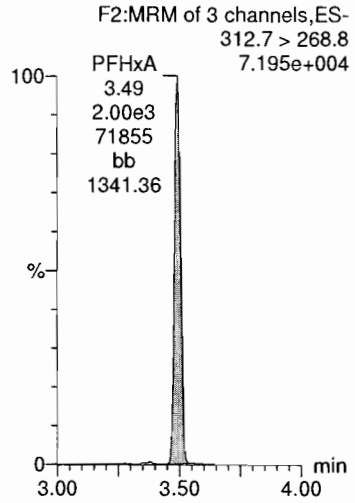
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_5, Date: 24-Aug-2018, Time: 17:50:00, ID: ST180824G3-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

PFBS



PFHxA



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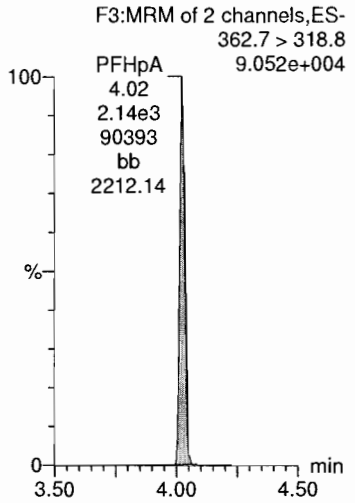
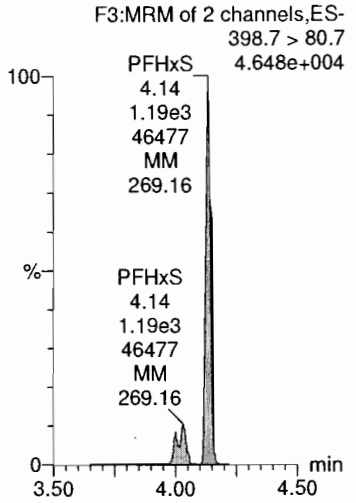
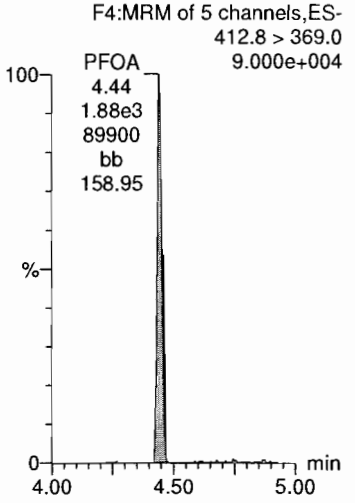


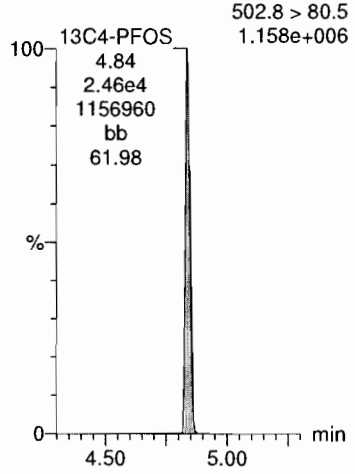
PFHxS



PFOA



13C4-PFOS



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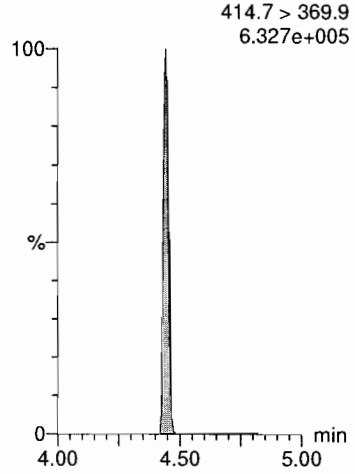

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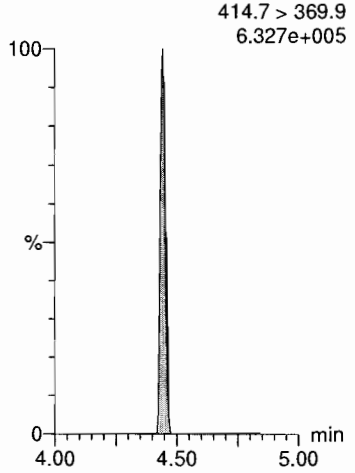

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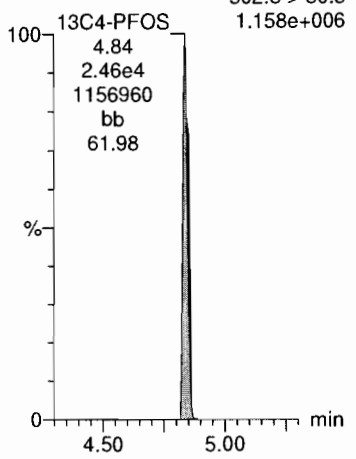

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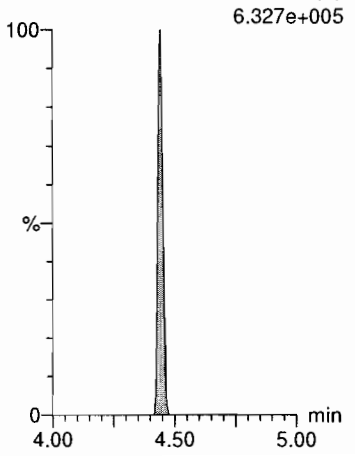

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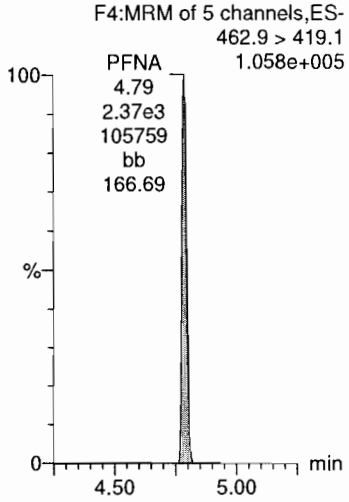
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_5, Date: 24-Aug-2018, Time: 17:50:00, ID: ST180824G3-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

PFNA



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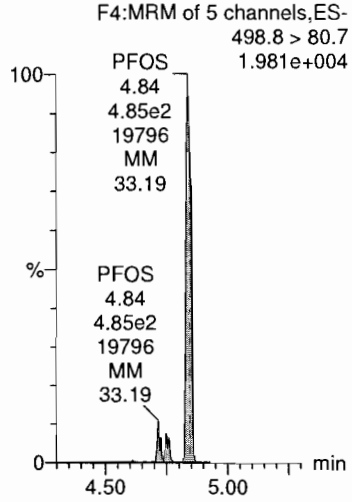

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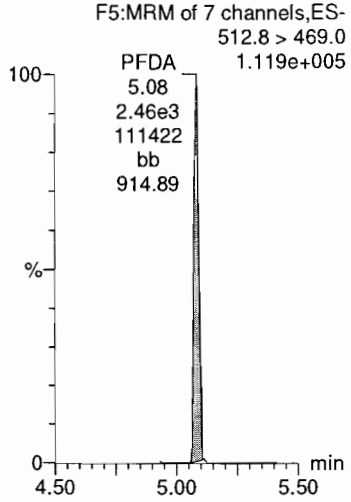
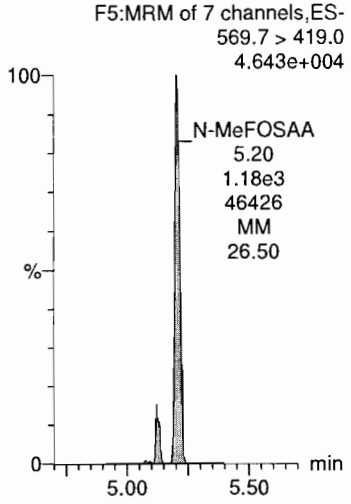


N-MeFOSAA



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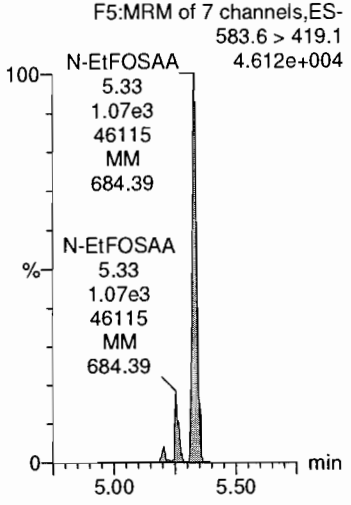

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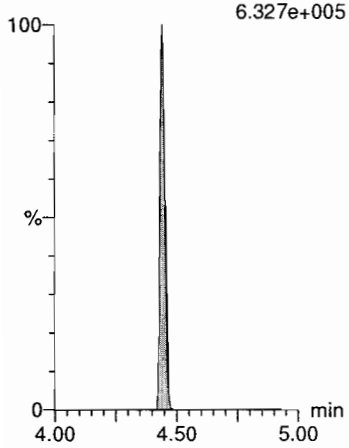

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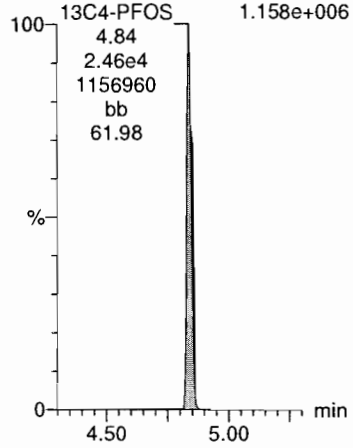
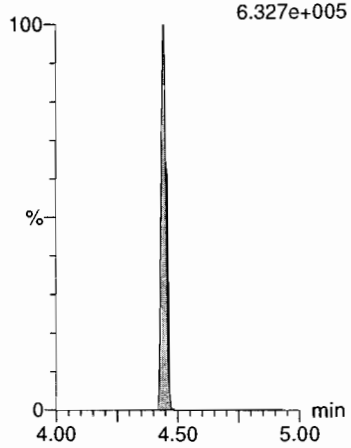


13C2-PFOA



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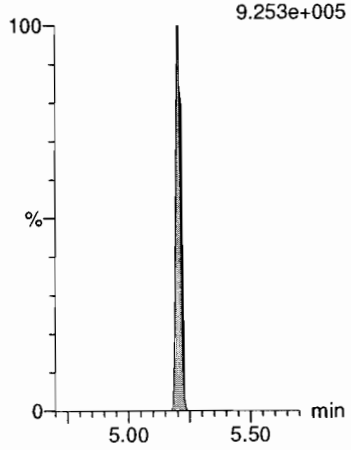
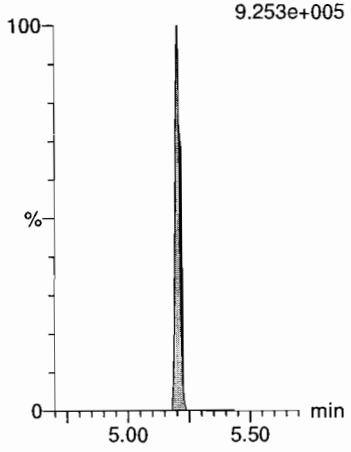


d3-N-MeFOSAA



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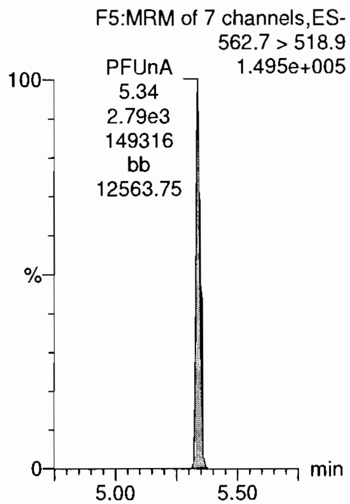
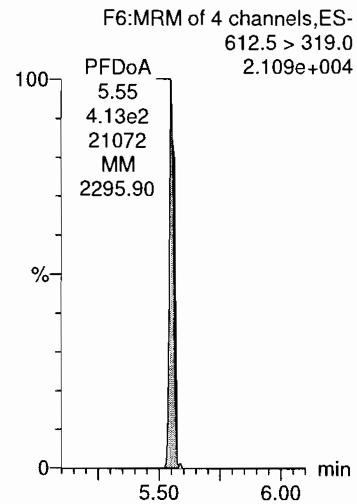
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_5, Date: 24-Aug-2018, Time: 17:50:00, ID: ST180824G3-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

PFUnA



PFDoA



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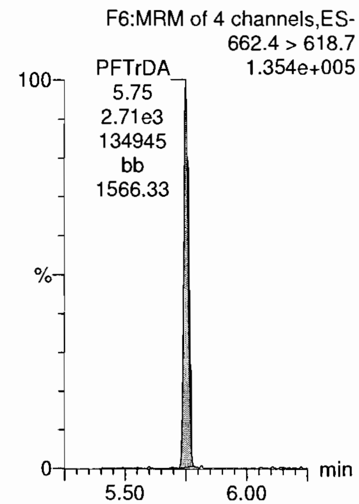

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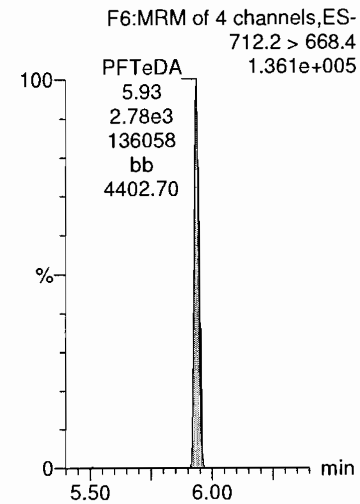

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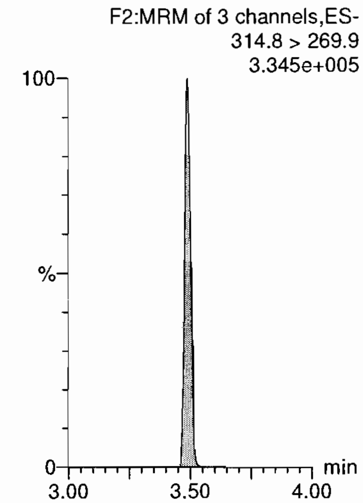

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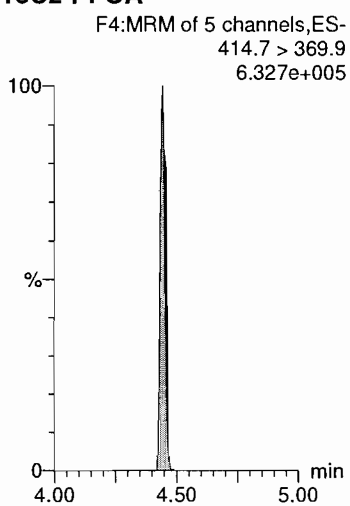

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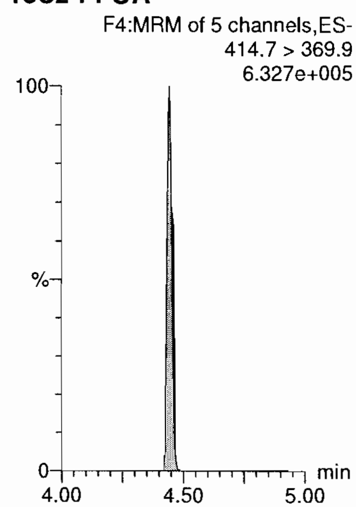

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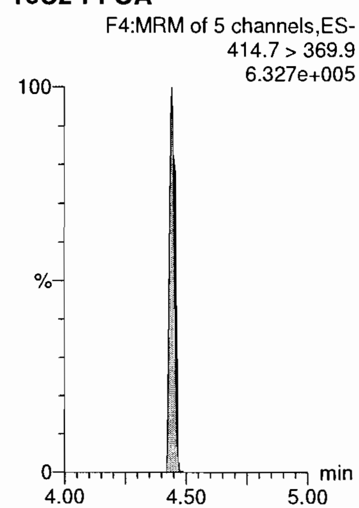

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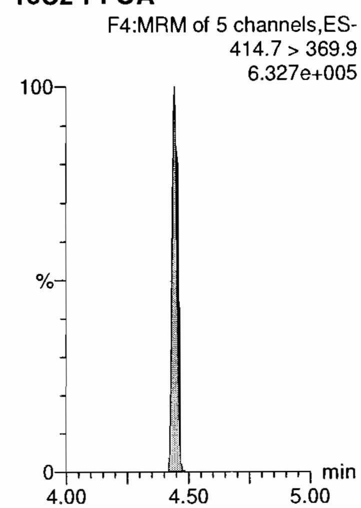

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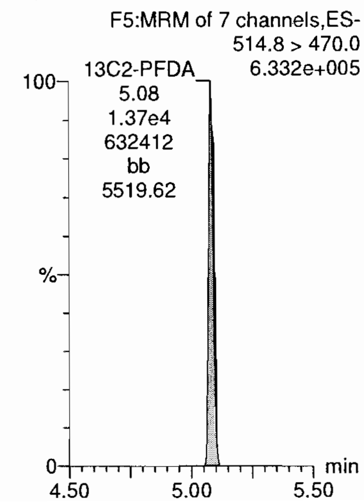

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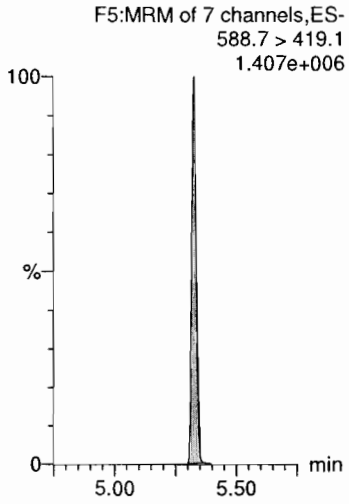
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_5, Date: 24-Aug-2018, Time: 17:50:00, ID: ST180824G3-4 PFC CS-1 537 18H2424, Description: PFC CS-1 537 18H2424

d5-N-EtFOSAA



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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_6, Date: 24-Aug-2018, Time: 18:02:59, ID: ST180824G3-5 PFC CS0 537 18H2425, Description: PFC CS0 537 18H2425

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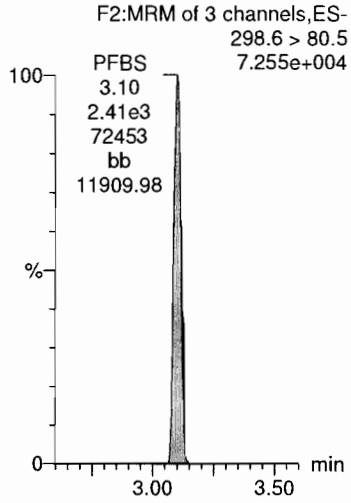
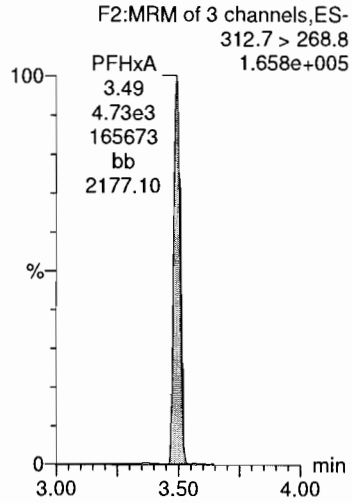


PFHxA



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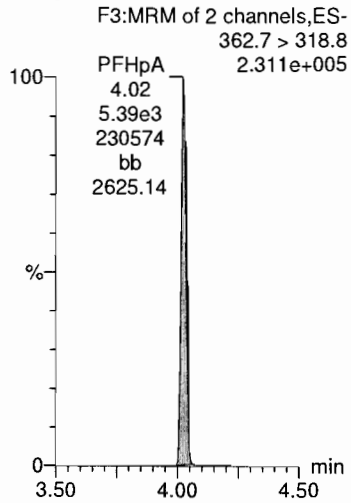

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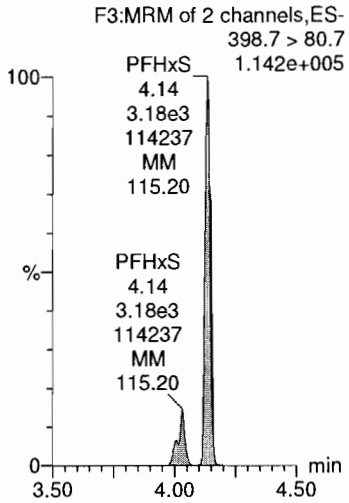

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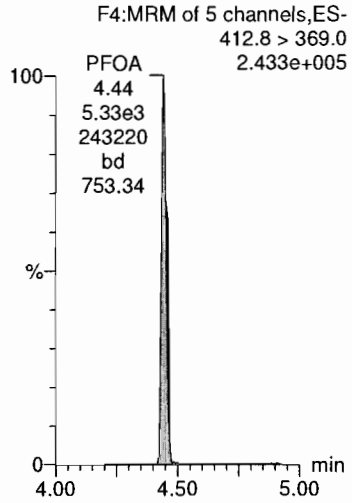

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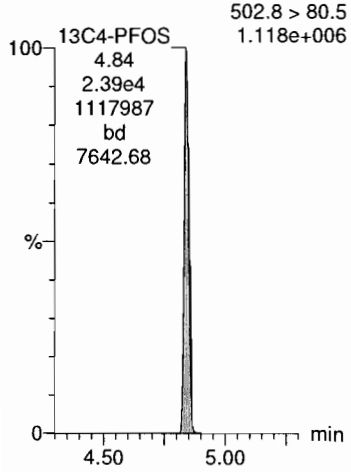

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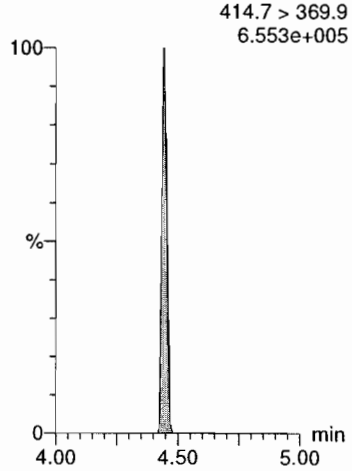

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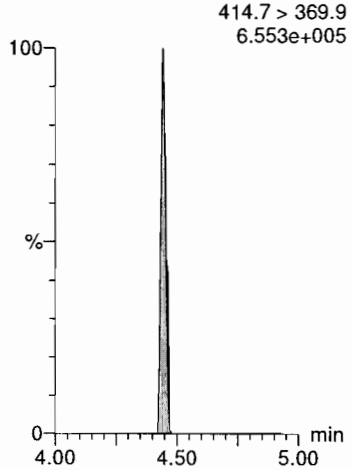

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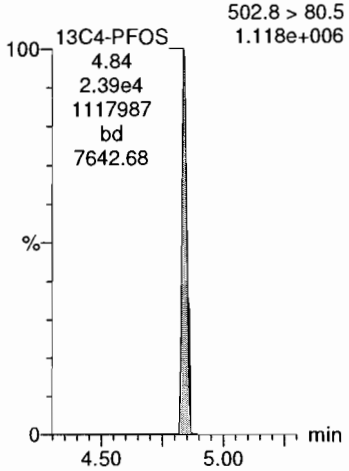

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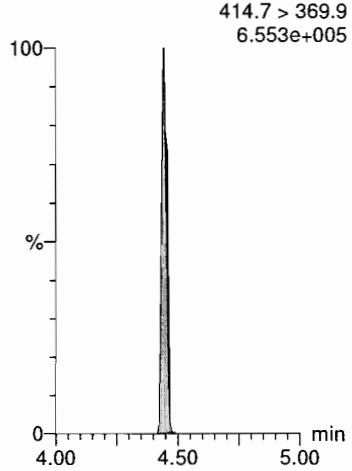

Name: 180824G3_6, Date: 24-Aug-2018, Time: 18:02:59, ID: ST180824G3-5 PFC CS0 537 18H2425, Description: PFC CS0 537 18H2425

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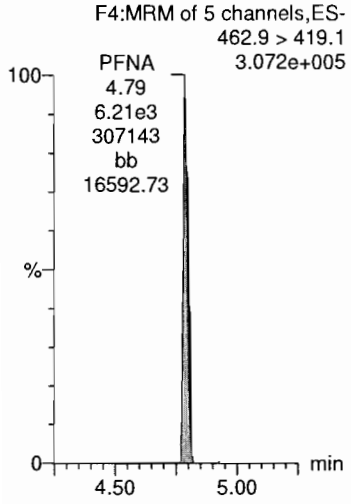

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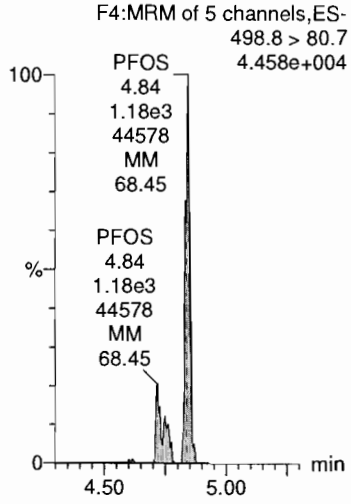

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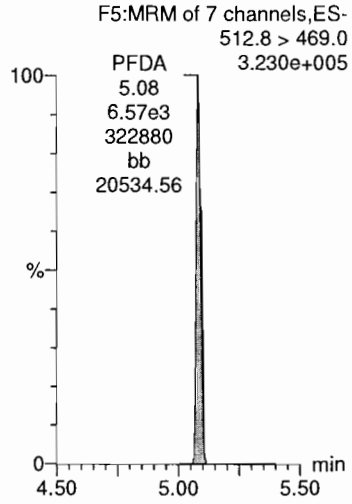

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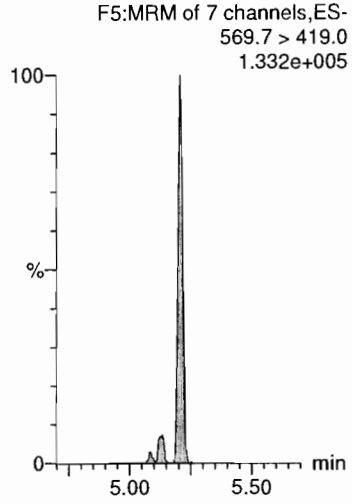

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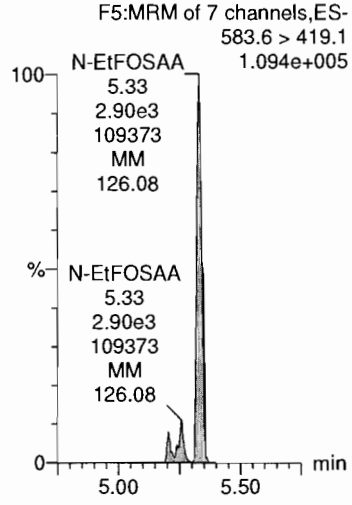

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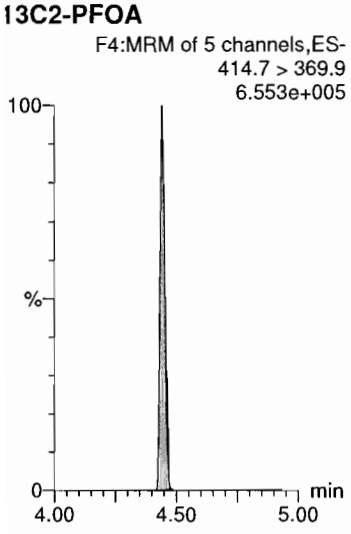

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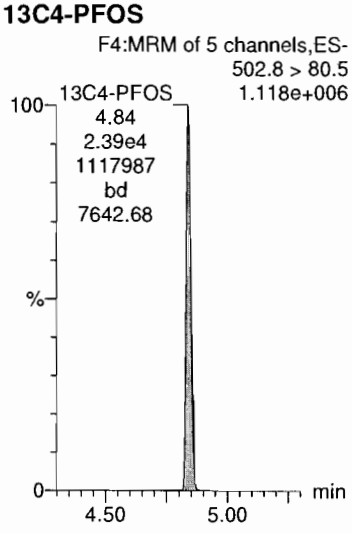

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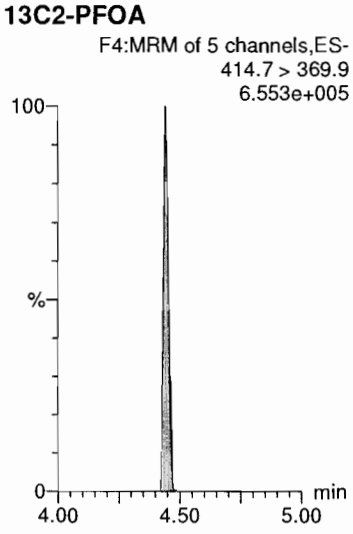

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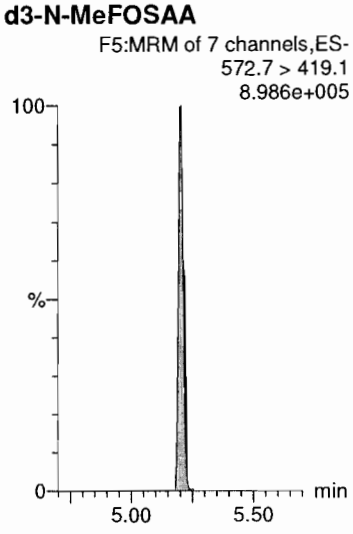

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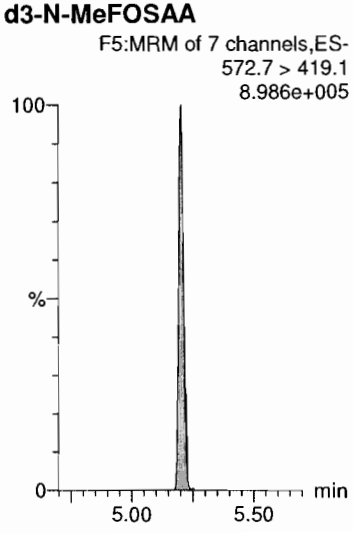

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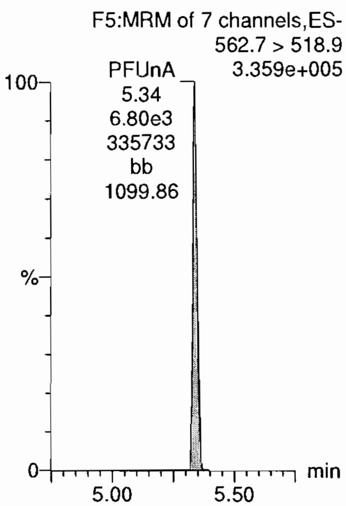
Name: 180824G3_6, Date: 24-Aug-2018, Time: 18:02:59, ID: ST180824G3-5 PFC CS0 537 18H2425, Description: PFC CS0 537 18H2425

PFUnA



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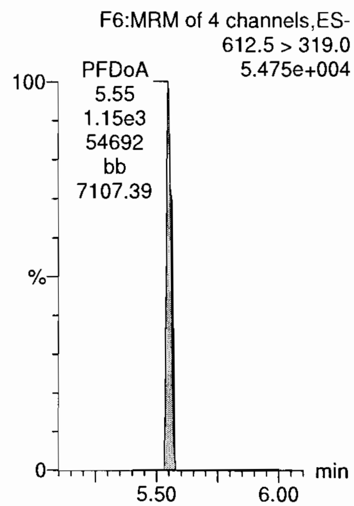

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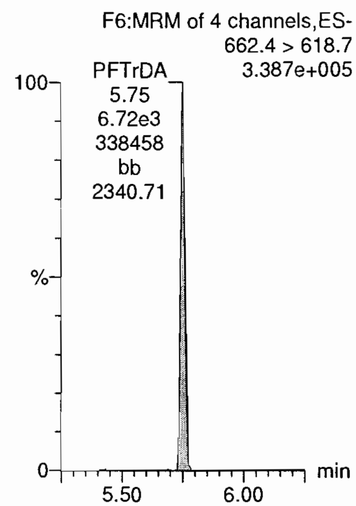
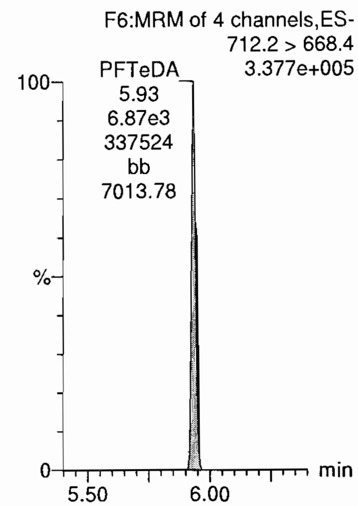


PFTeDA



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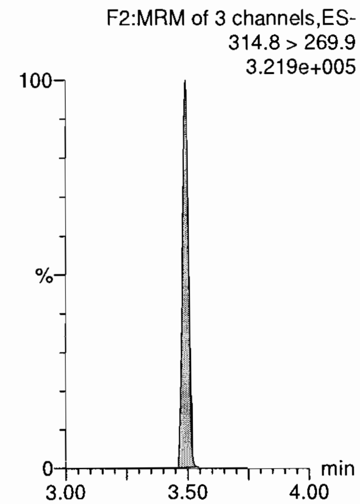

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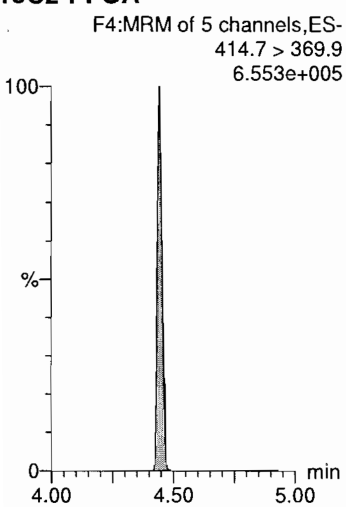

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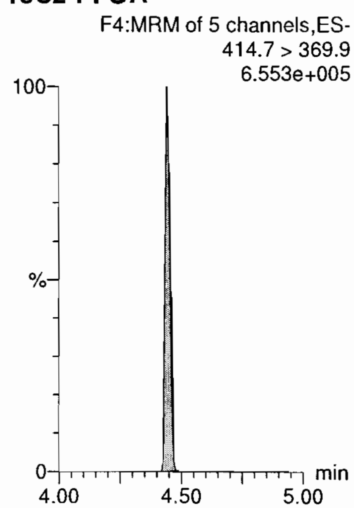

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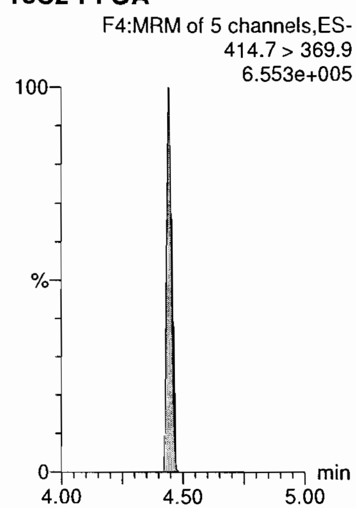

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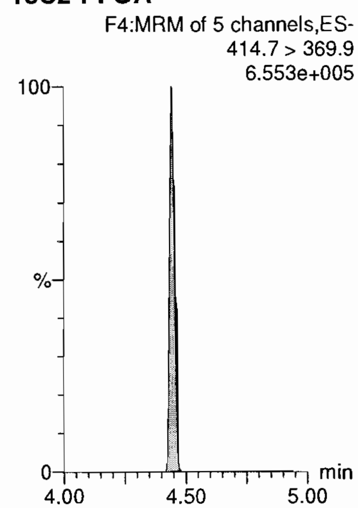

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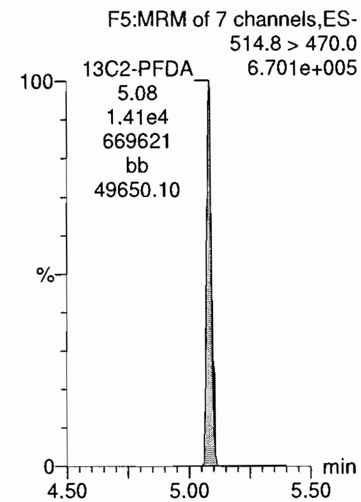

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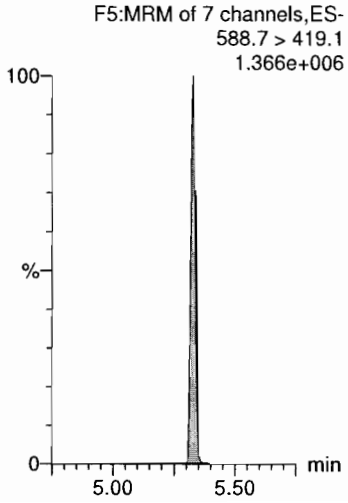
Name: 180824G3_6, Date: 24-Aug-2018, Time: 18:02:59, ID: ST180824G3-5 PFC CS0 537 18H2425, Description: PFC CS0 537 18H2425

d5-N-EtFOSAA



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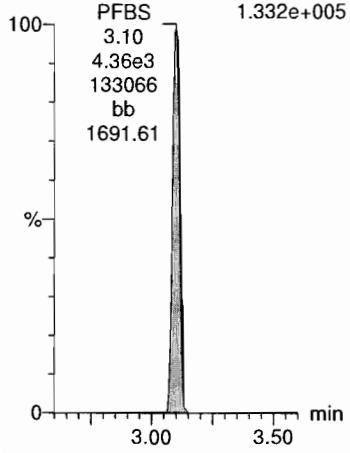
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_7, Date: 24-Aug-2018, Time: 18:16:04, ID: ST180824G3-6 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

PFBS



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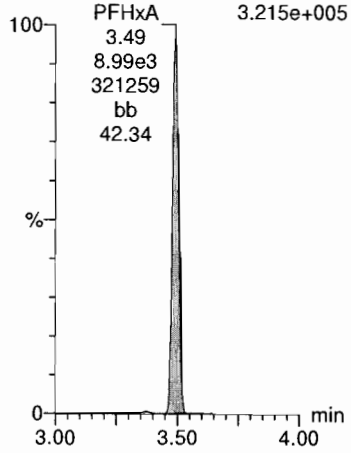

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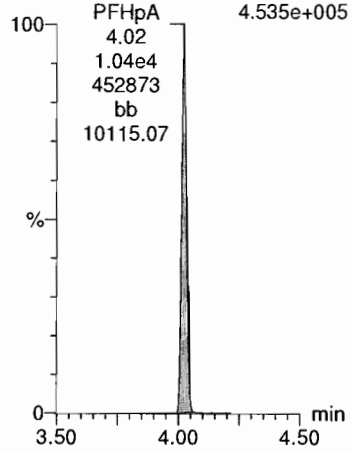

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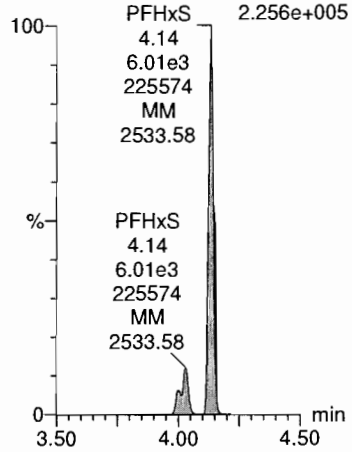
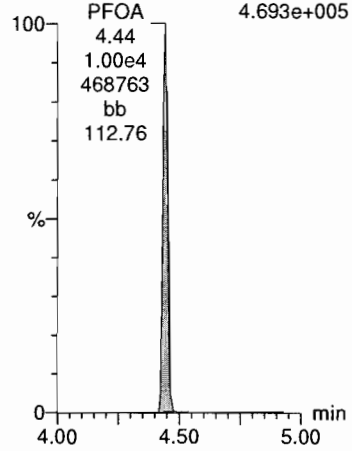
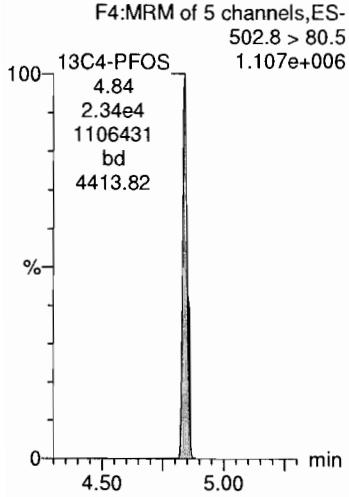


PFOA



13C4-PFOS



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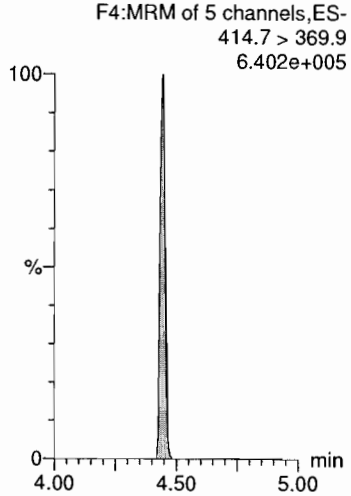

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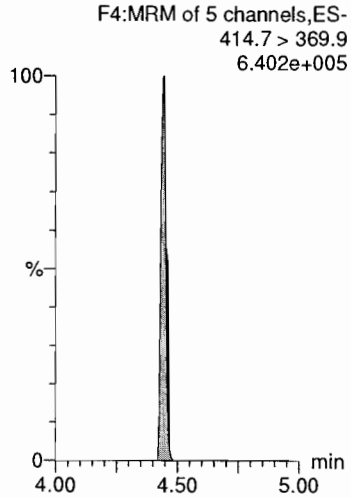

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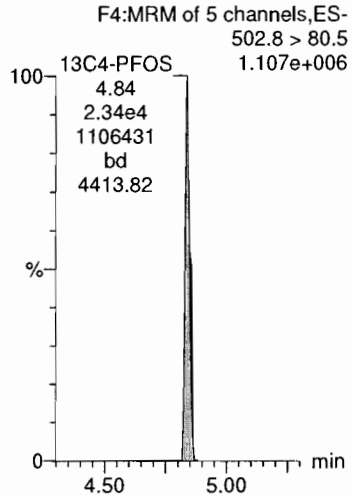

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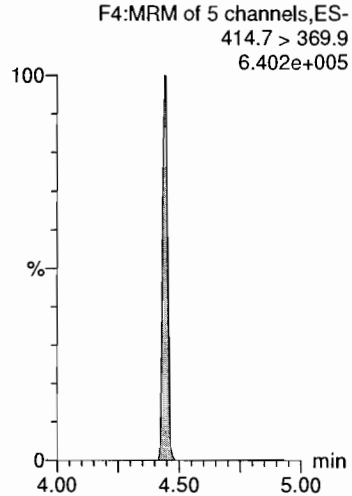

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Name: 180824G3_7, Date: 24-Aug-2018, Time: 18:16:04, ID: ST180824G3-6 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

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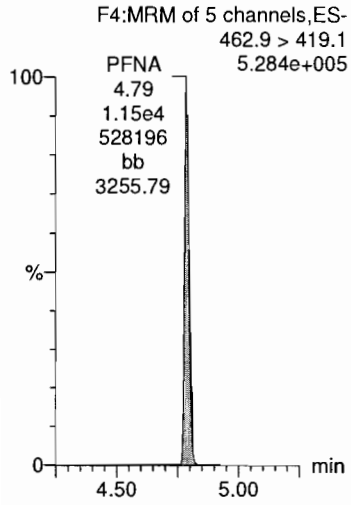
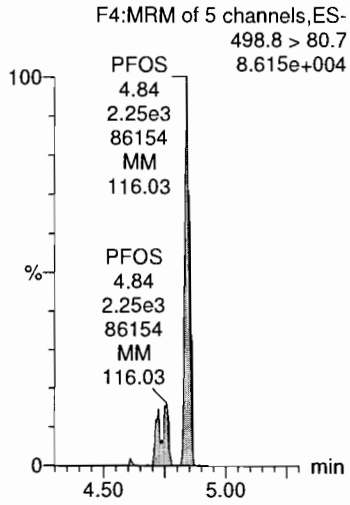


PFOS



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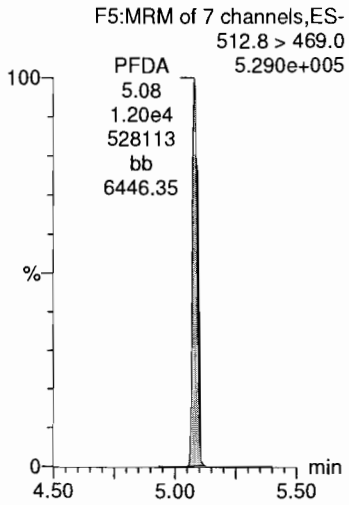

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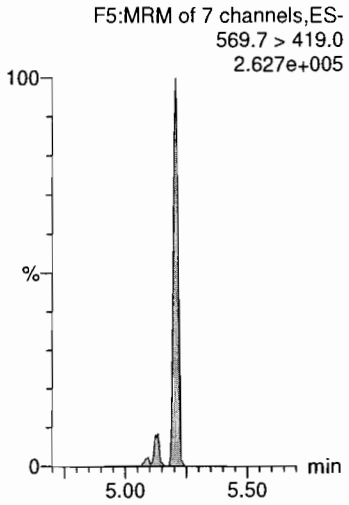

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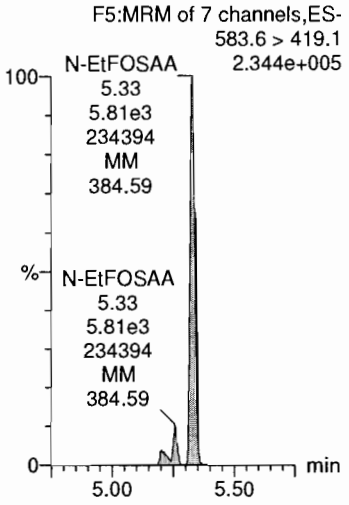

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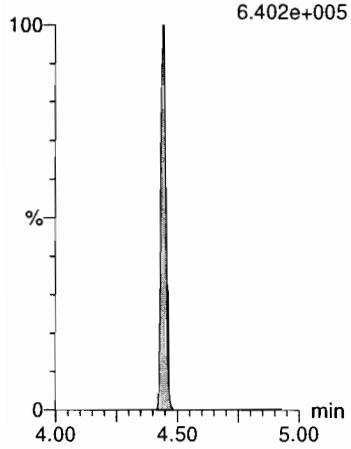

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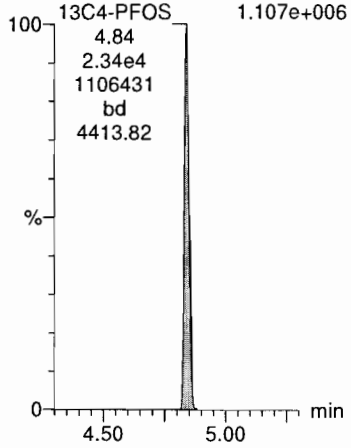

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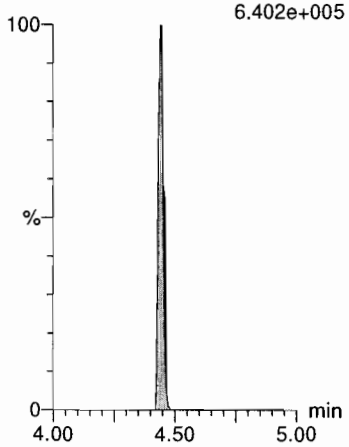

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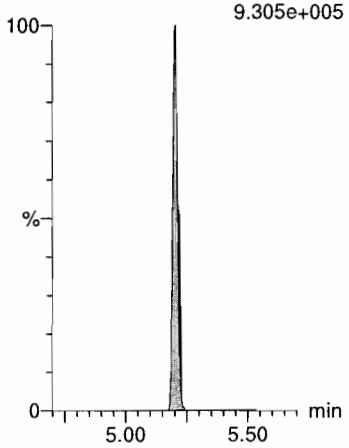

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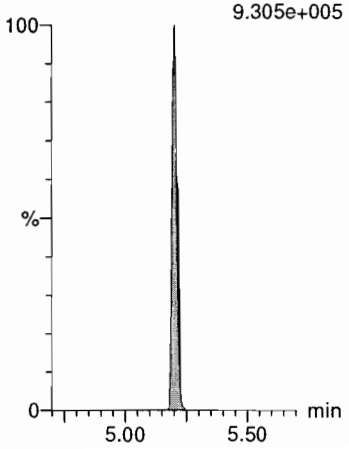

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Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_7, Date: 24-Aug-2018, Time: 18:16:04, ID: ST180824G3-6 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

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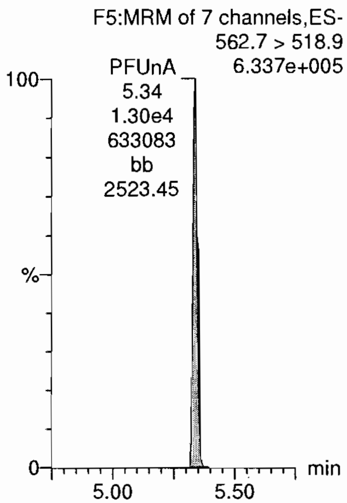

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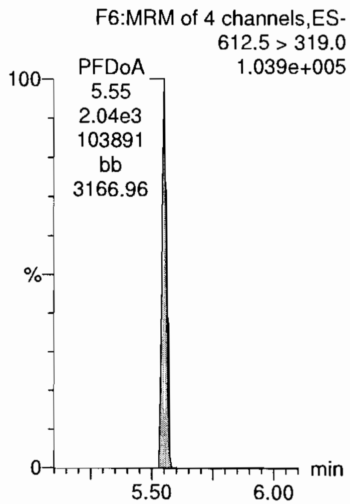

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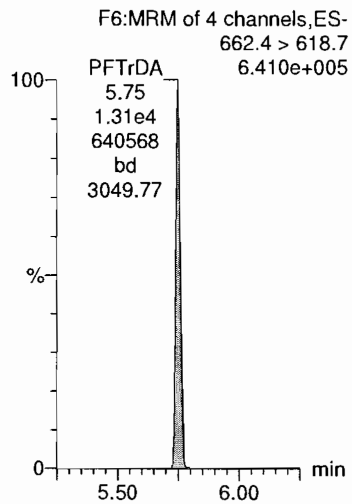

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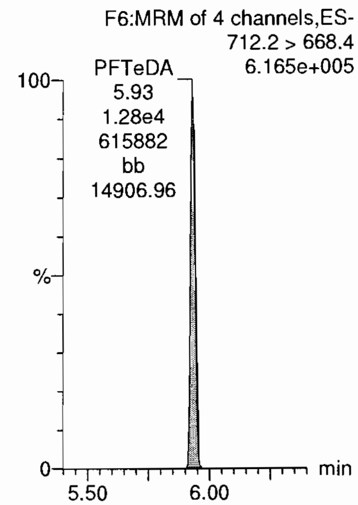

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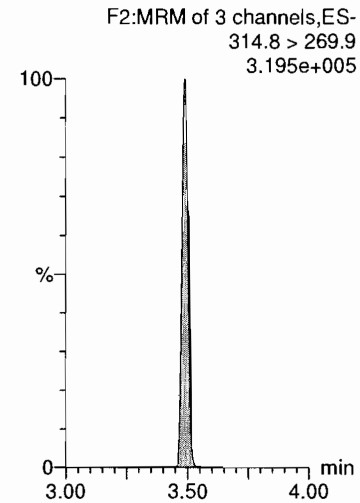

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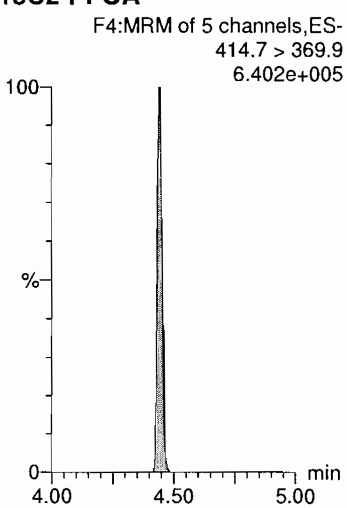

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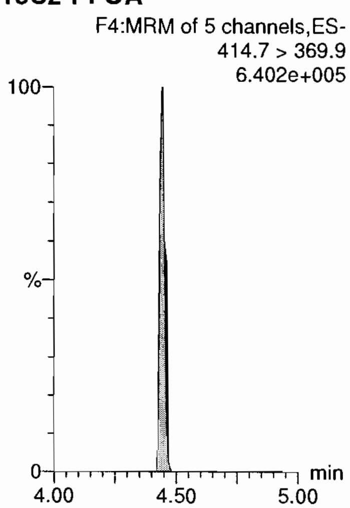

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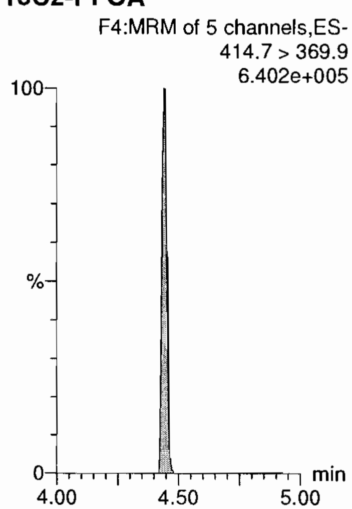

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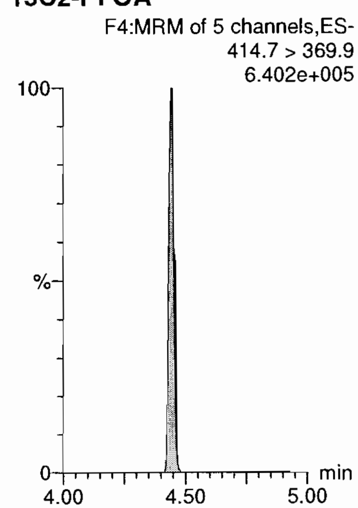

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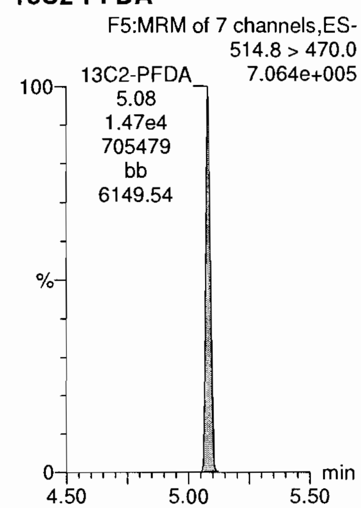

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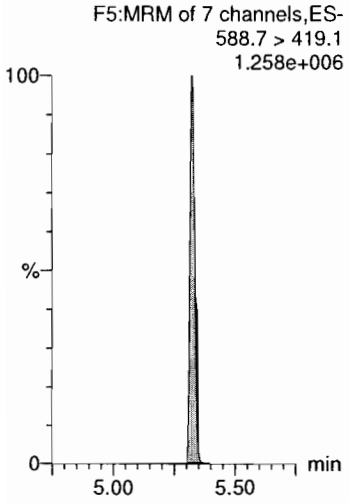
Name: 180824G3_7, Date: 24-Aug-2018, Time: 18:16:04, ID: ST180824G3-6 PFC CS1 537 18H2426, Description: PFC CS1 537 18H2426

d5-N-EtFOSAA



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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_8, Date: 24-Aug-2018, Time: 18:29:09, ID: ST180824G3-7 PFC CS2 537 18H2427, Description: PFC CS2 537 18H2427

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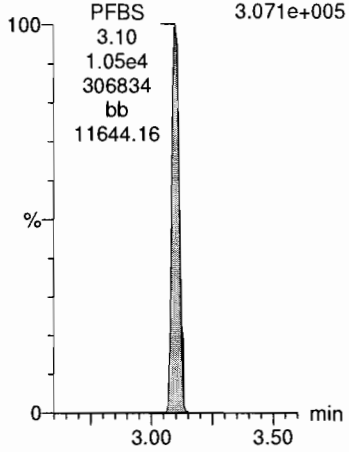

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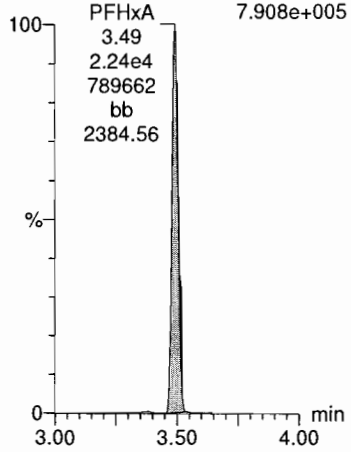

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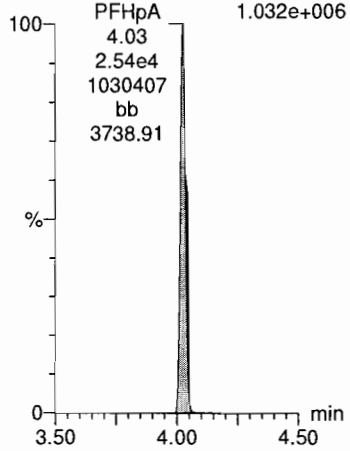

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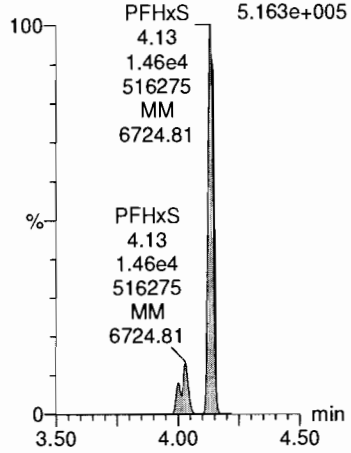

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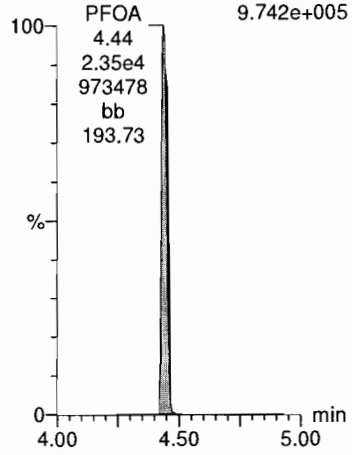

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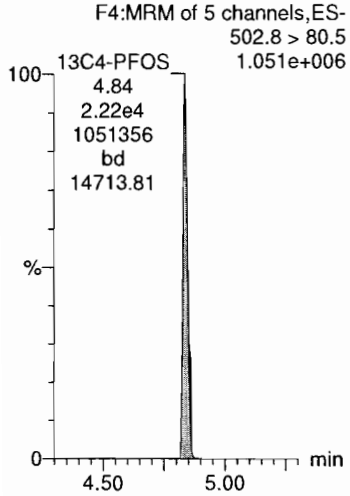

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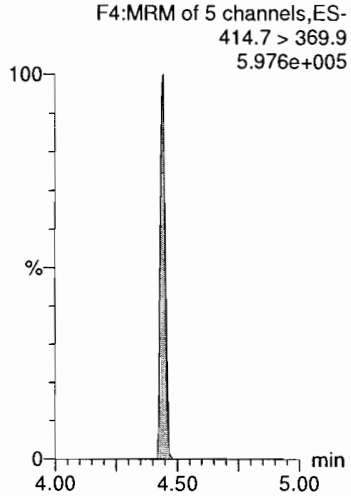

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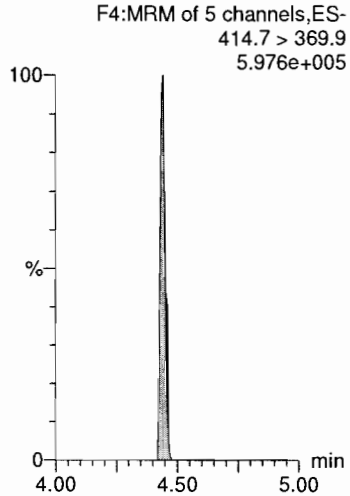

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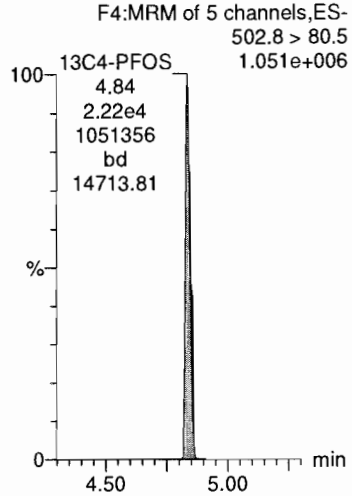

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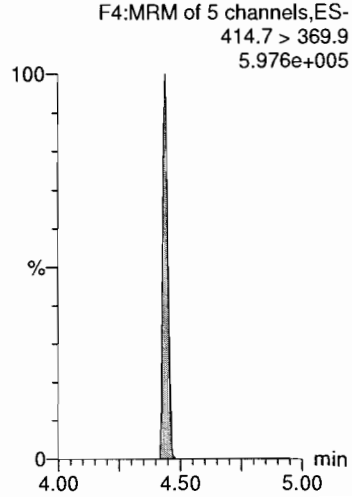

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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_8, Date: 24-Aug-2018, Time: 18:29:09, ID: ST180824G3-7 PFC CS2 537 18H2427, Description: PFC CS2 537 18H2427

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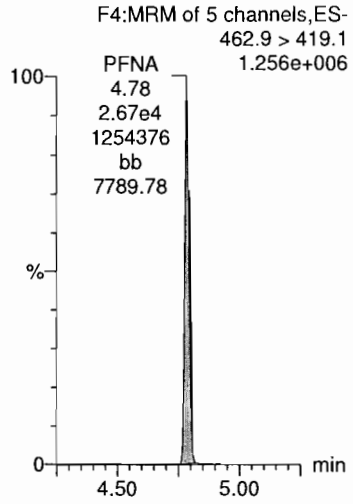

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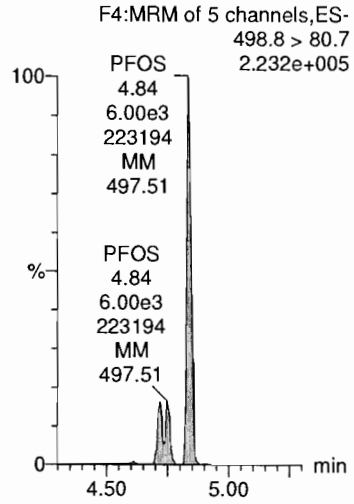

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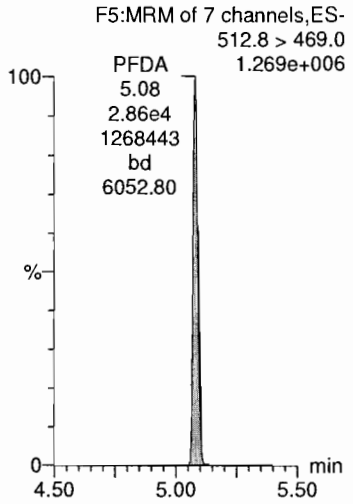

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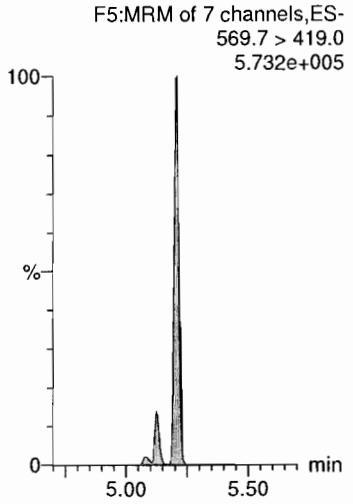

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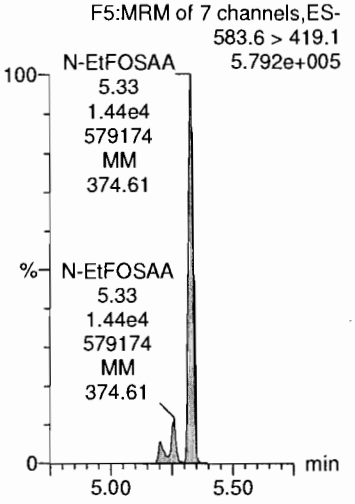

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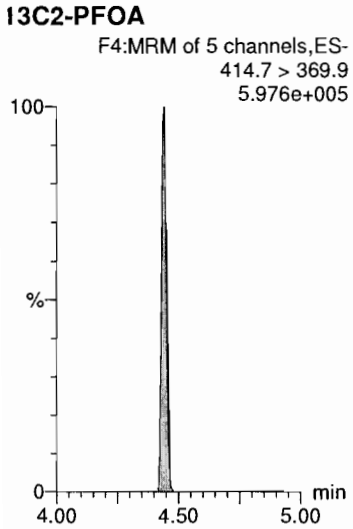

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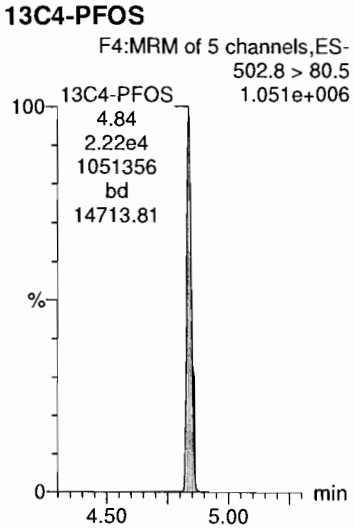

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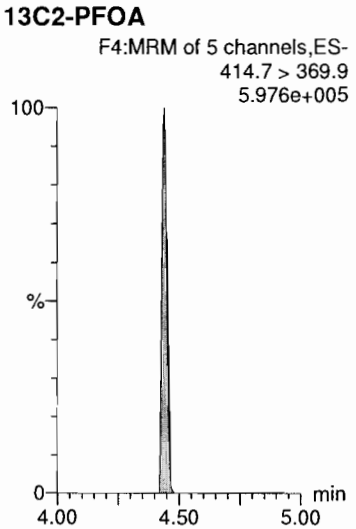

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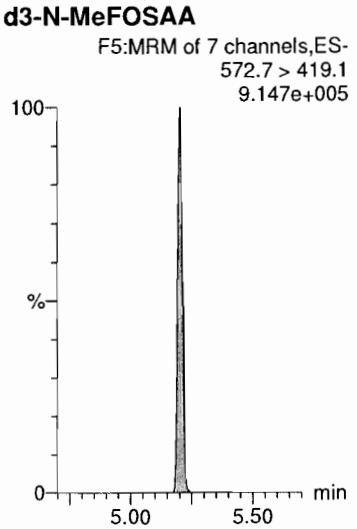

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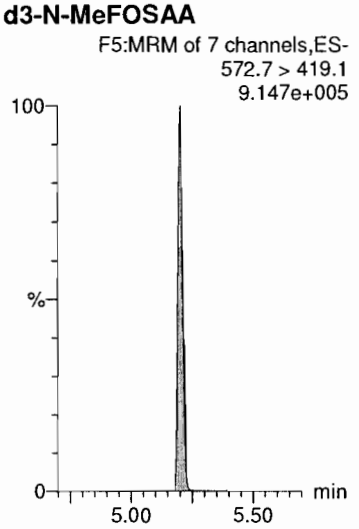

Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

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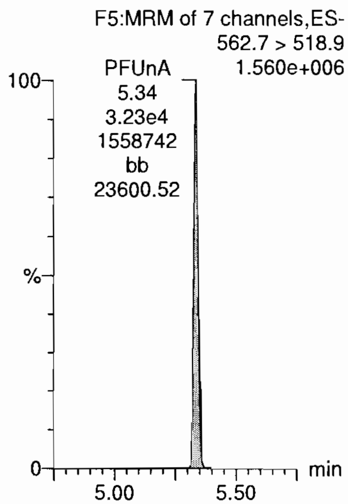
Name: 180824G3_8, Date: 24-Aug-2018, Time: 18:29:09, ID: ST180824G3-7 PFC CS2 537 18H2427, Description: PFC CS2 537 18H2427

PFUnA


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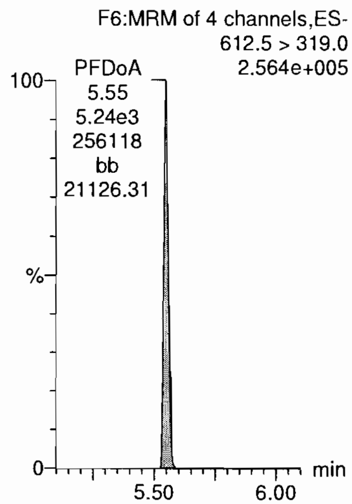

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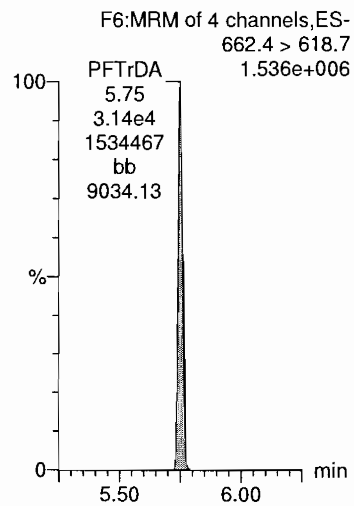

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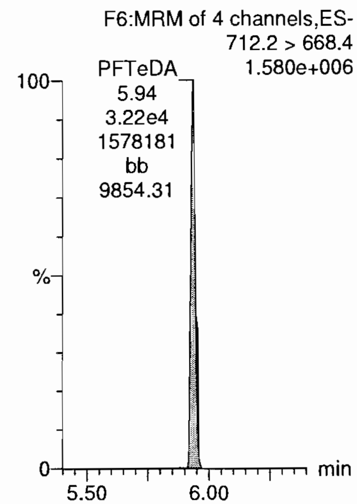

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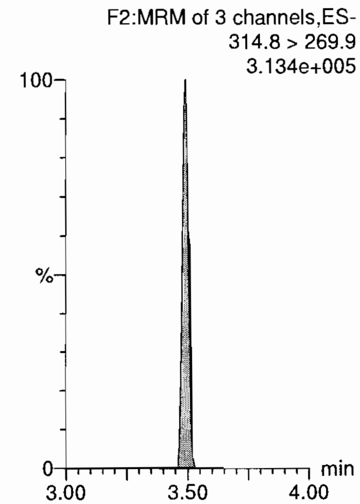

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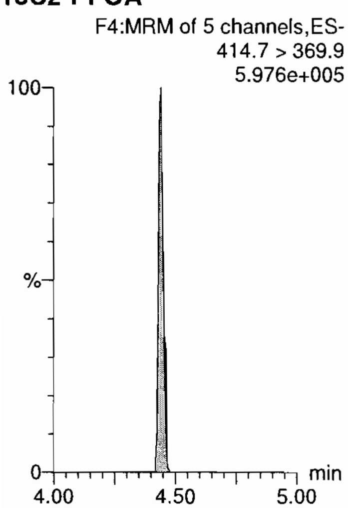

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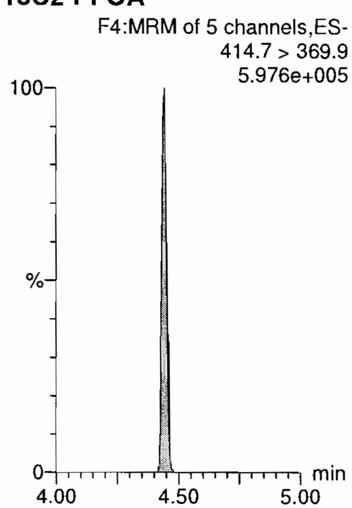

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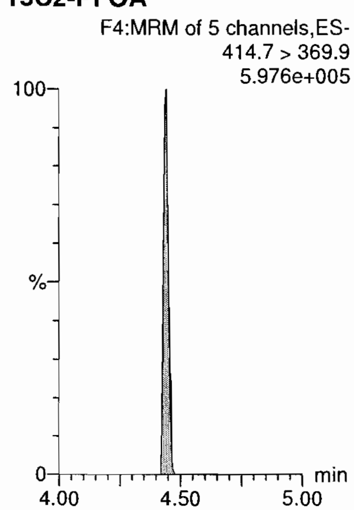

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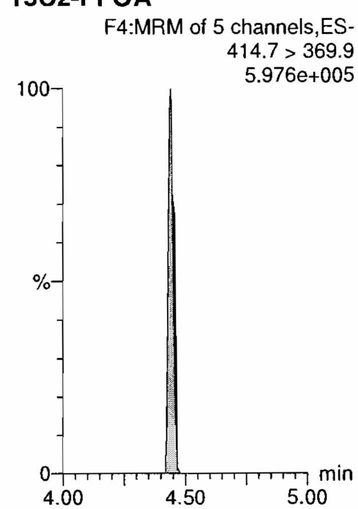

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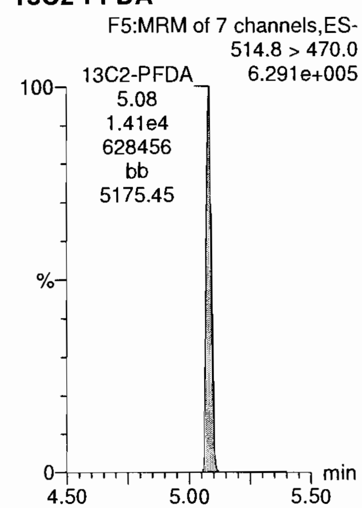

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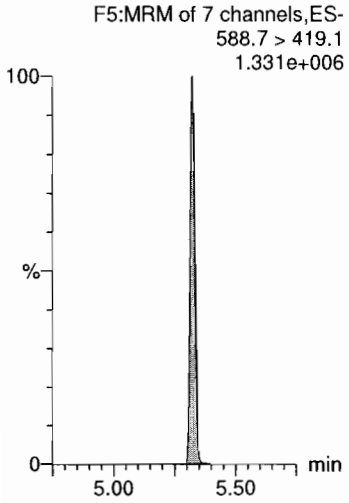
Name: 180824G3_8, Date: 24-Aug-2018, Time: 18:29:09, ID: ST180824G3-7 PFC CS2 537 18H2427, Description: PFC CS2 537 18H2427

d5-N-EtFOSAA



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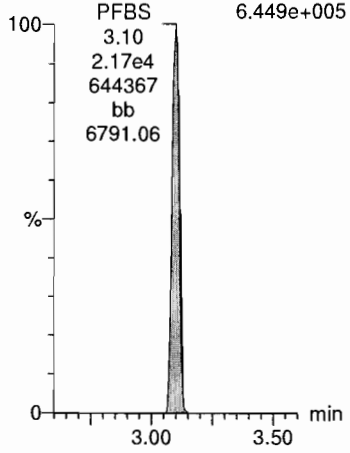
Name: 180824G3_9, Date: 24-Aug-2018, Time: 18:42:15, ID: ST180824G3-8 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

PFBS



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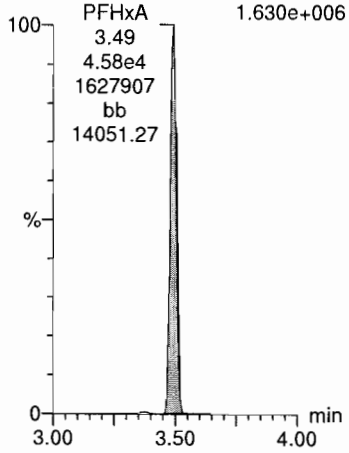

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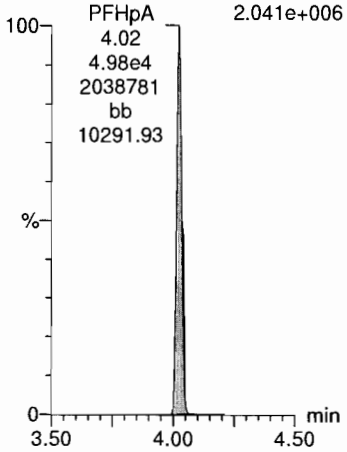

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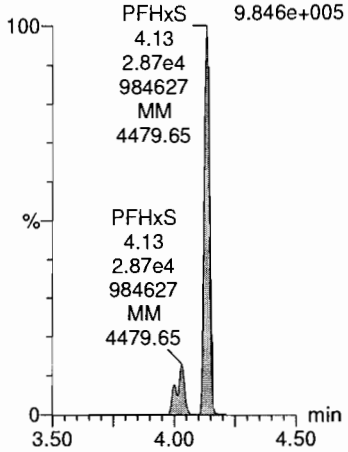

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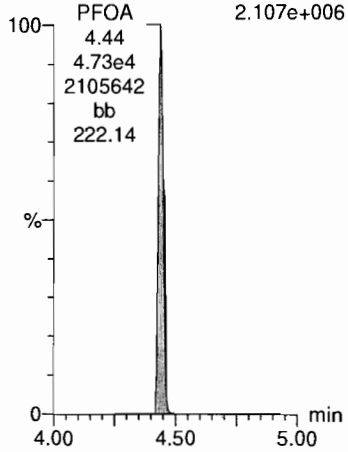

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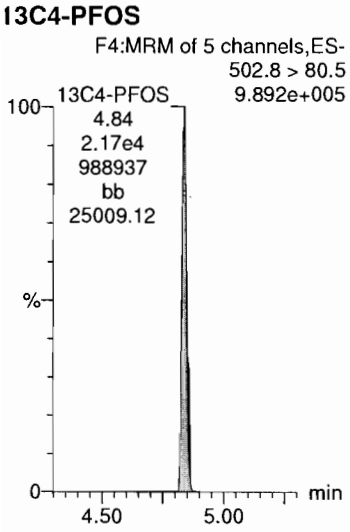
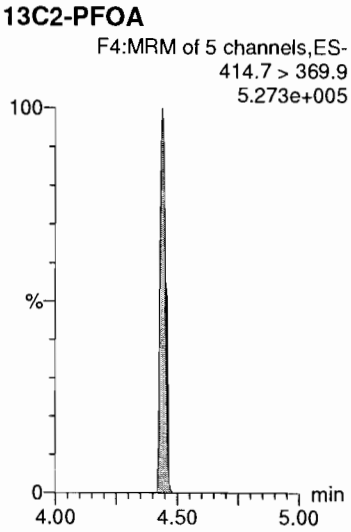


13C2-PFOA



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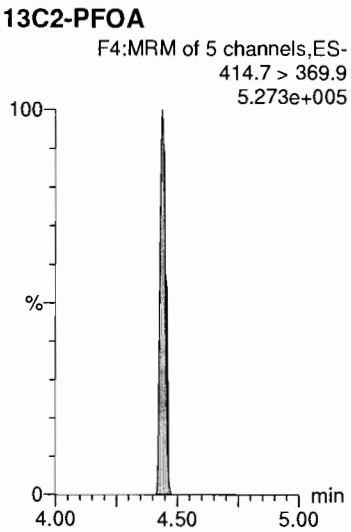
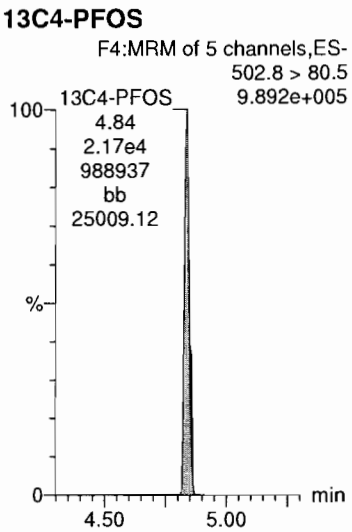


13C4-PFOS



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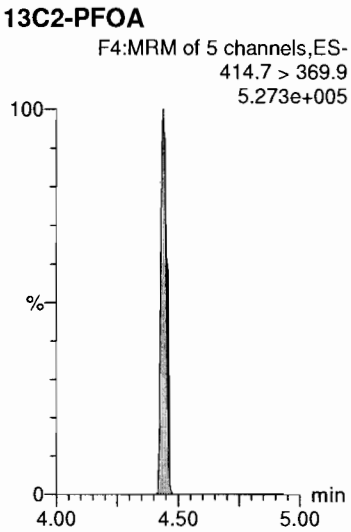
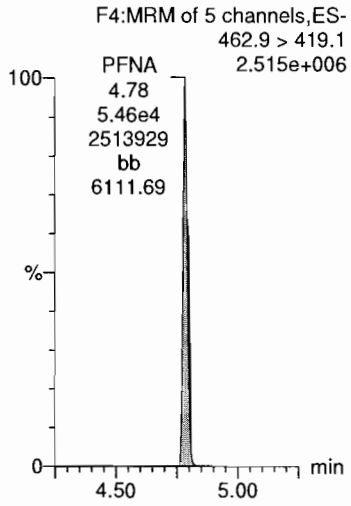


Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_9, Date: 24-Aug-2018, Time: 18:42:15, ID: ST180824G3-8 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

PFNA



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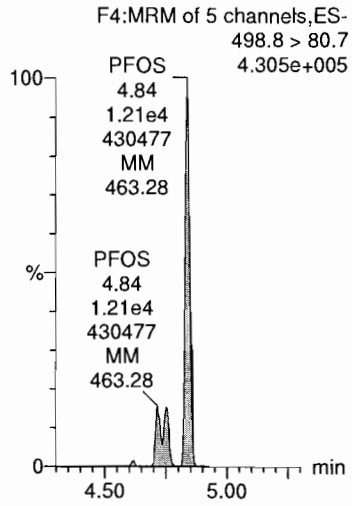
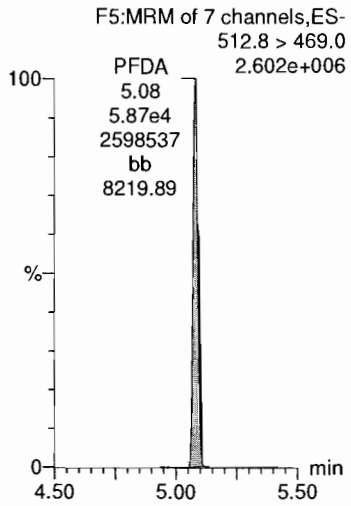


PFDA



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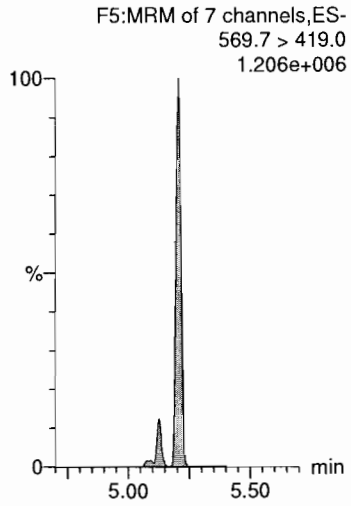

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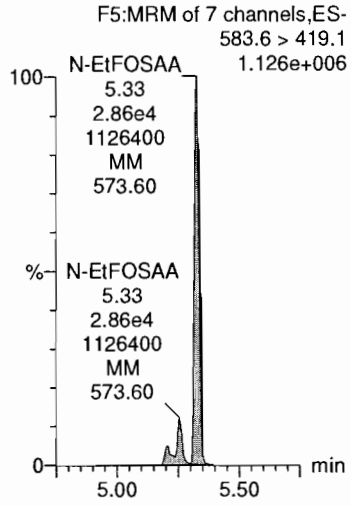

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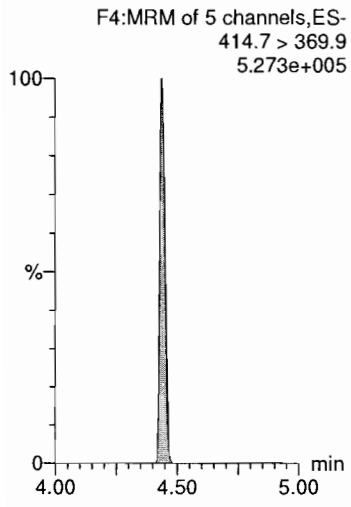

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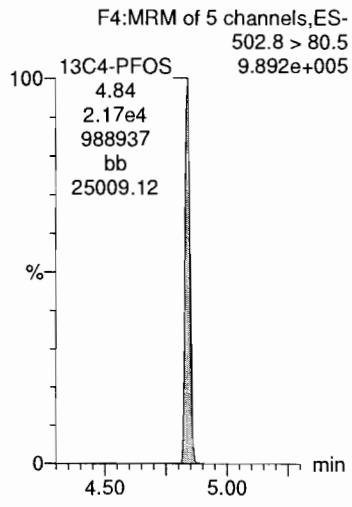

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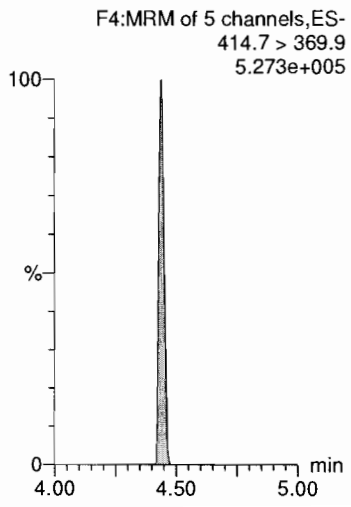

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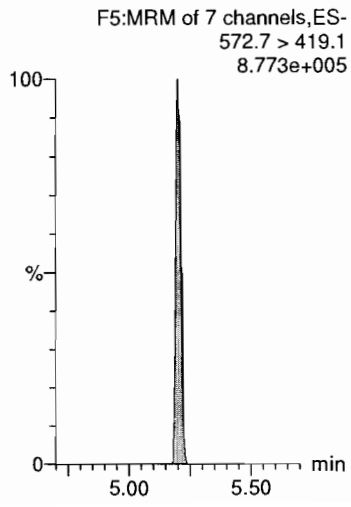

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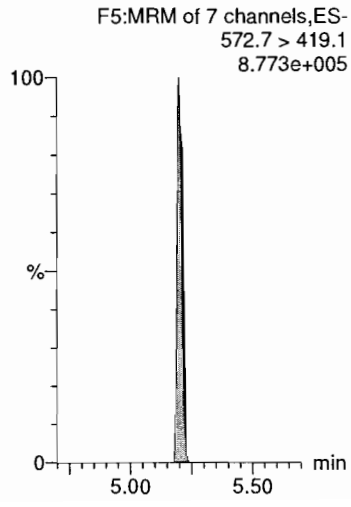
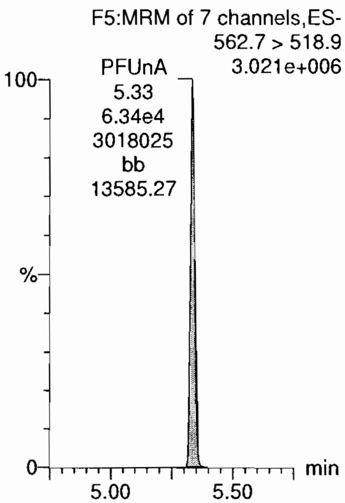


Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_9, Date: 24-Aug-2018, Time: 18:42:15, ID: ST180824G3-8 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

PFUnA



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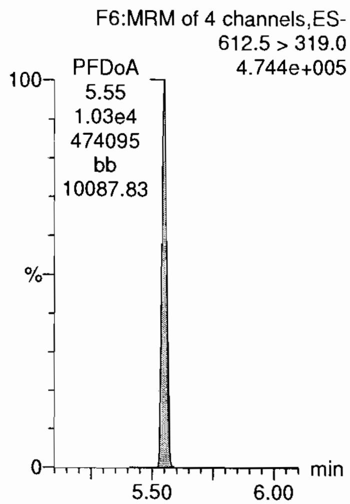

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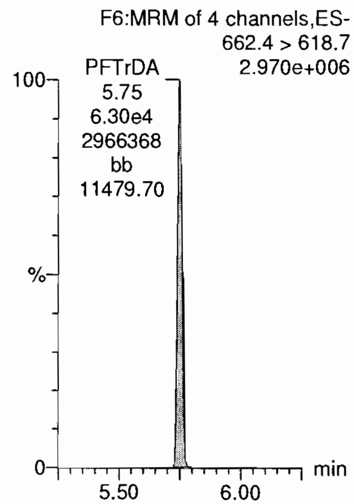

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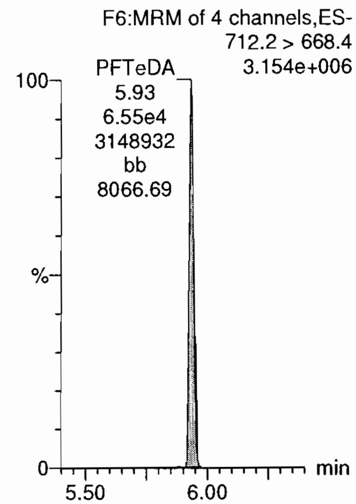

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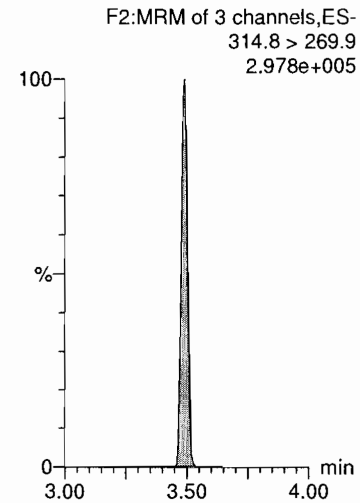

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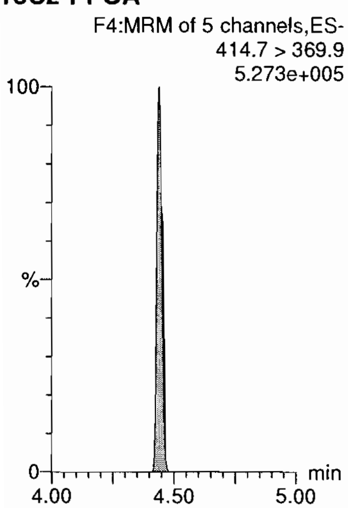

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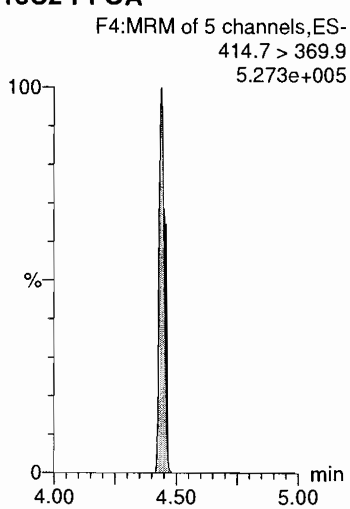

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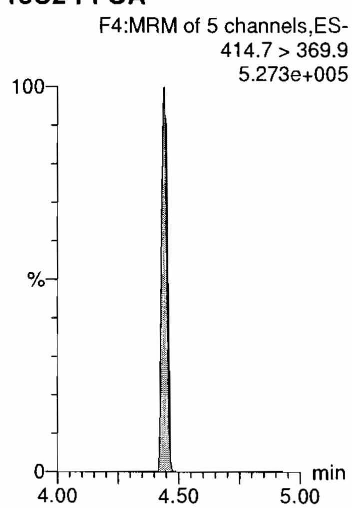

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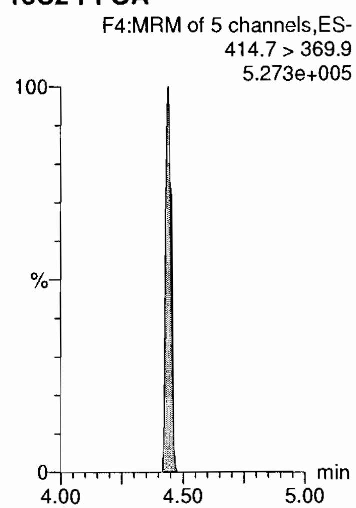

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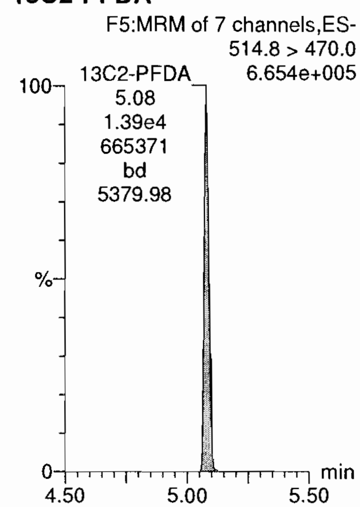


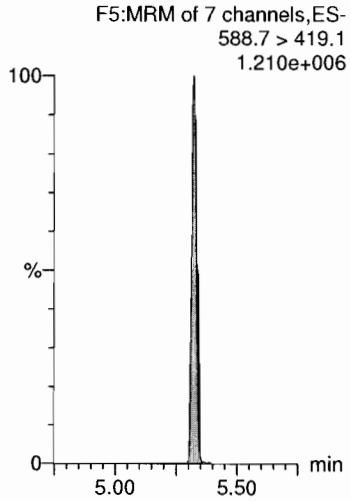
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_9, Date: 24-Aug-2018, Time: 18:42:15, ID: ST180824G3-8 PFC CS3 537 18H2428, Description: PFC CS3 537 18H2428

d5-N-EtFOSAA



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Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_10, Date: 24-Aug-2018, Time: 18:55:21, ID: ST180824G3-9 PFC CS4 537 18H2429, Description: PFC CS4 537 18H2429

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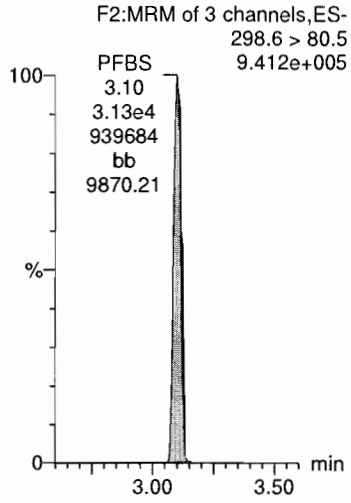

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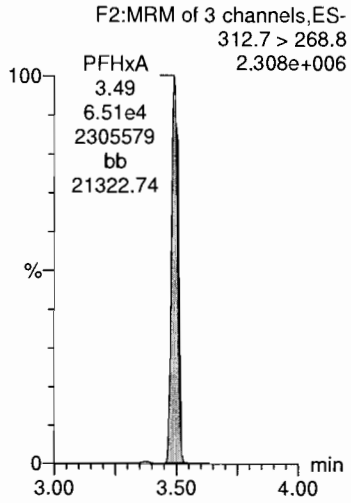

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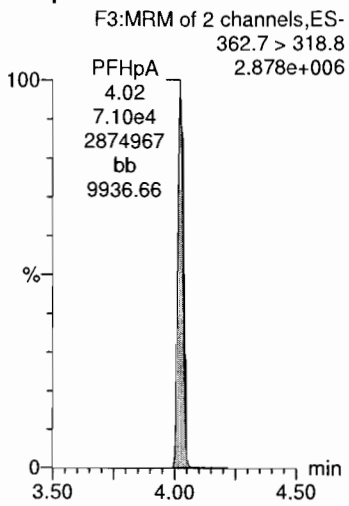

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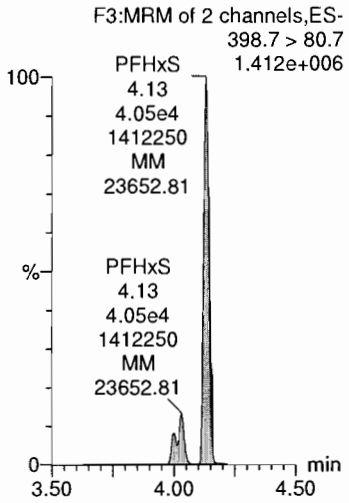

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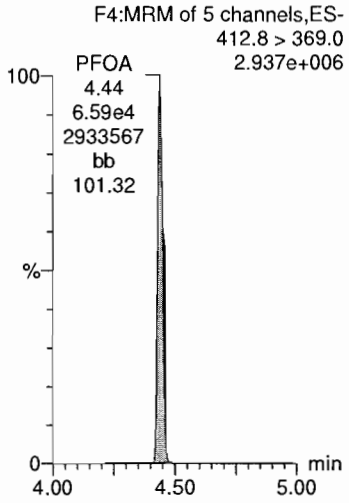

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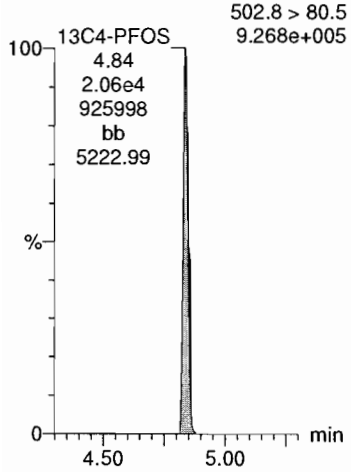

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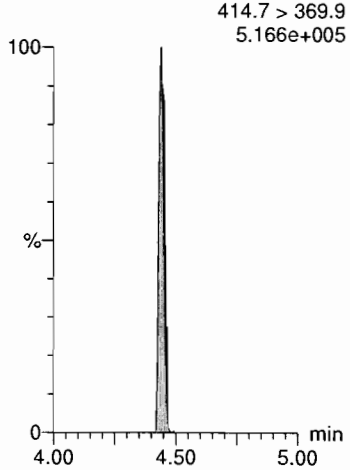

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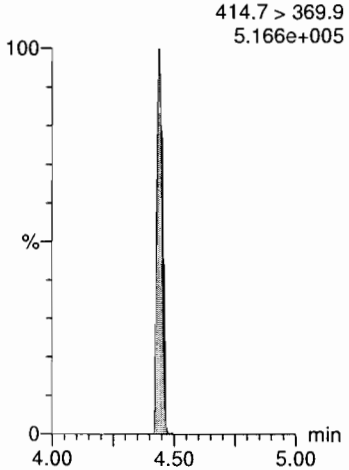

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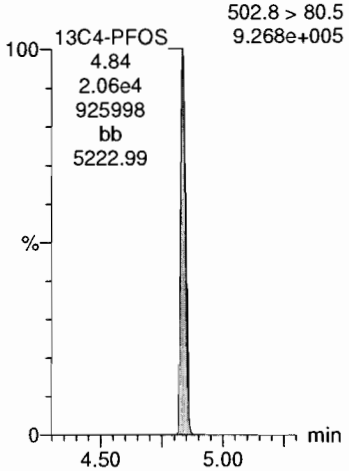

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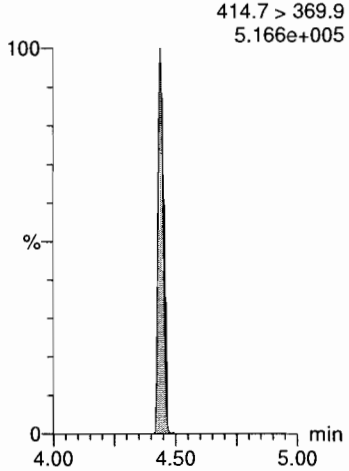

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
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Name: 180824G3_10, Date: 24-Aug-2018, Time: 18:55:21, ID: ST180824G3-9 PFC CS4 537 18H2429, Description: PFC CS4 537 18H2429

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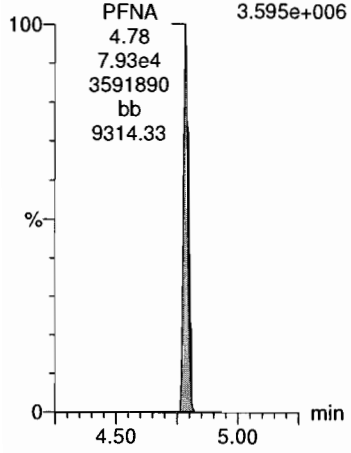

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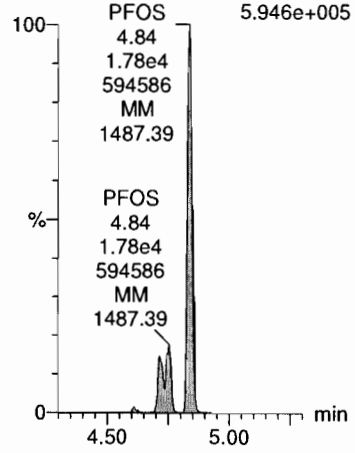

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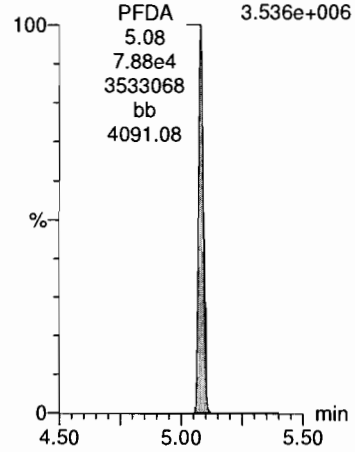
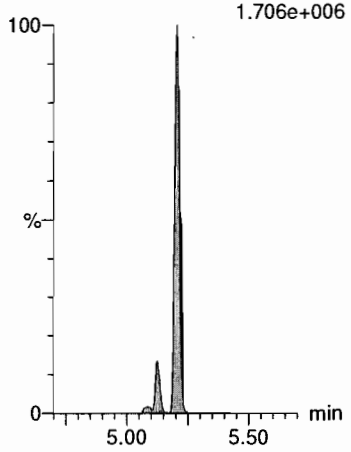


N-MeFOSAA



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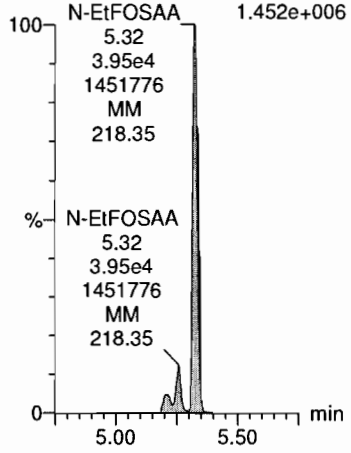

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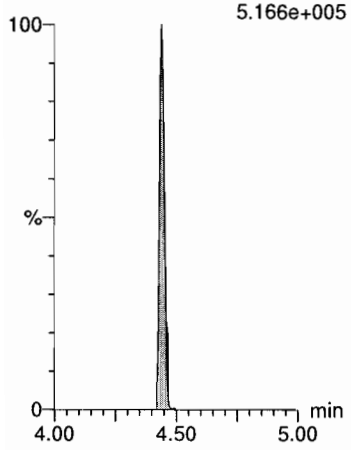

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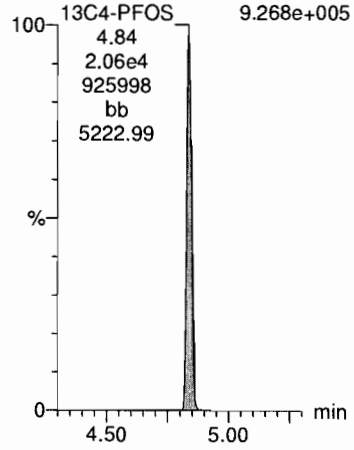

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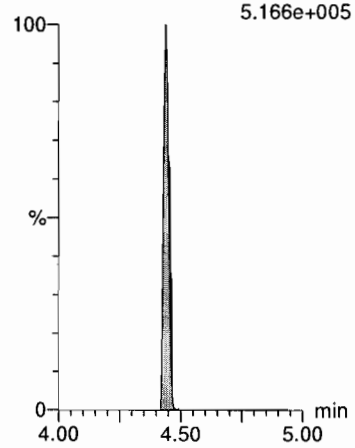
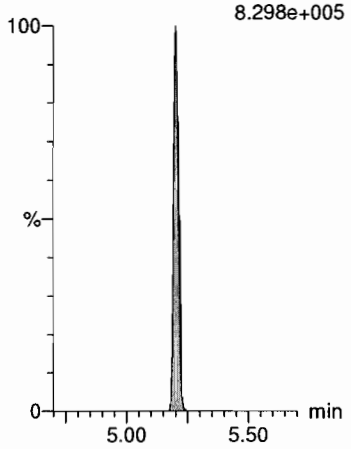
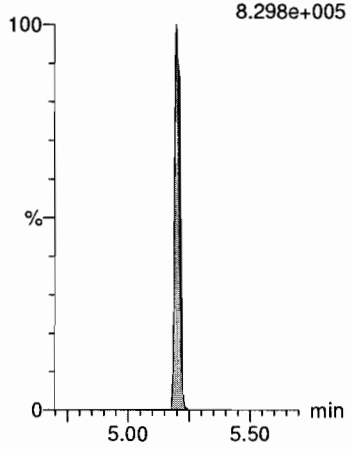


d3-N-MeFOSAA



d3-N-MeFOSAA

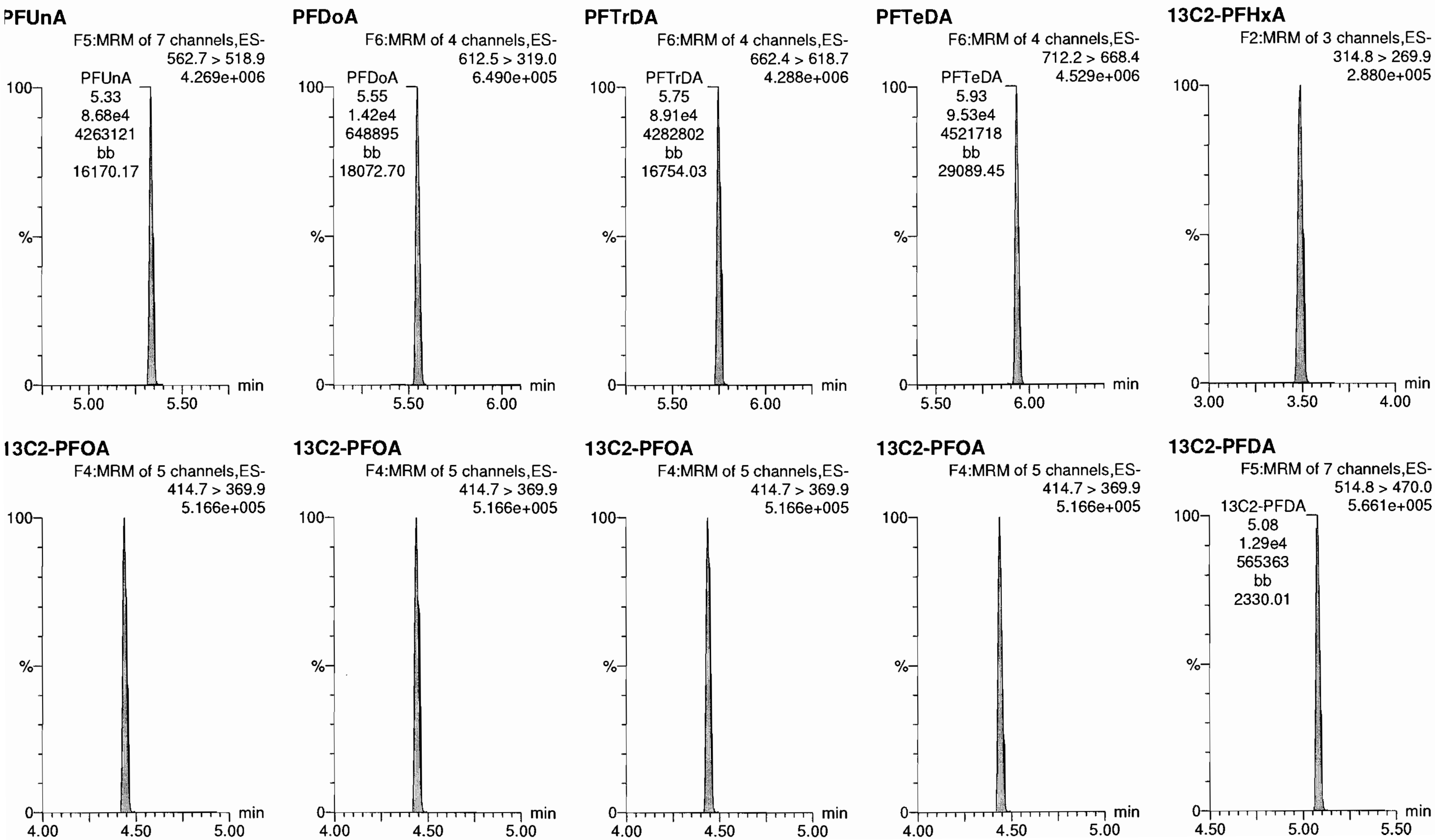


Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_10, Date: 24-Aug-2018, Time: 18:55:21, ID: ST180824G3-9 PFC CS4 537 18H2429, Description: PFC CS4 537 18H2429



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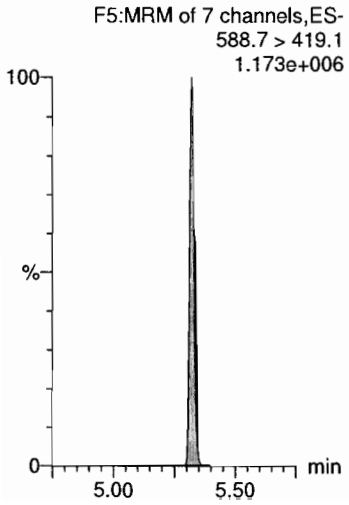
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_10, Date: 24-Aug-2018, Time: 18:55:21, ID: ST180824G3-9 PFC CS4 537 18H2429, Description: PFC CS4 537 18H2429

d5-N-EtFOSAA



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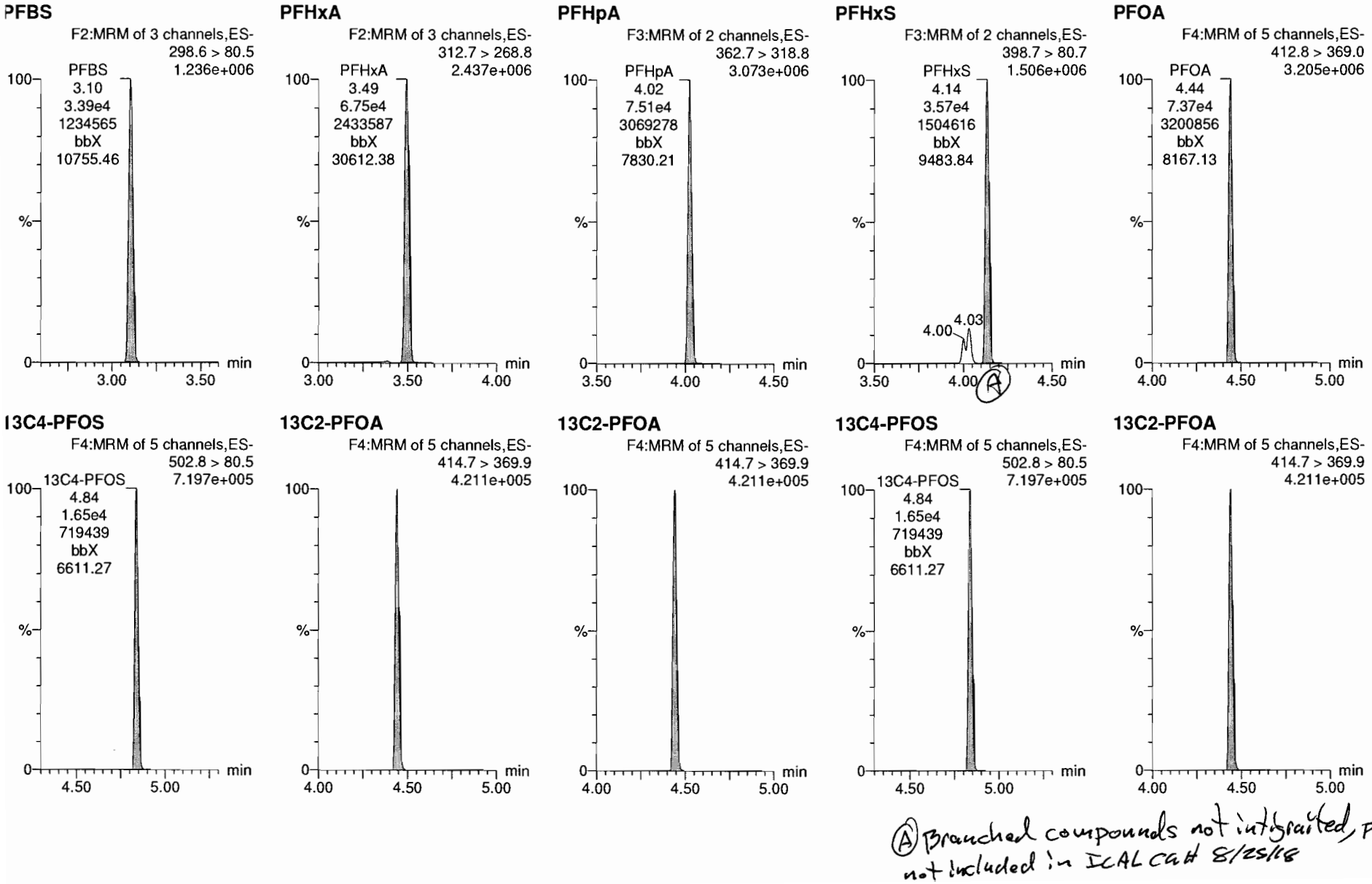
Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_11, Date: 24-Aug-2018, Time: 19:08:22, ID: ST180824G3-10 PFC CS5 537 18H2430, Description: PFC CS5 537 18H2430



(A) Branched compounds not integrated, points not included in ICAL CalA 8/25/18

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_11, Date: 24-Aug-2018, Time: 19:08:22, ID: ST180824G3-10 PFC CS5 537 18H2430, Description: PFC CS5 537 18H2430

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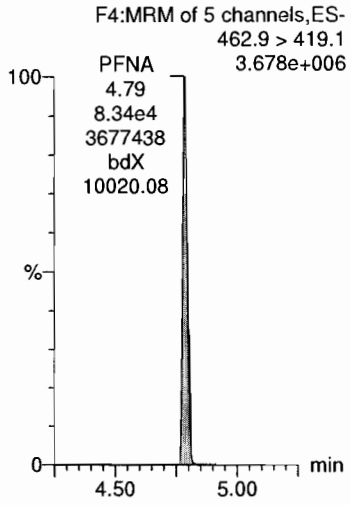

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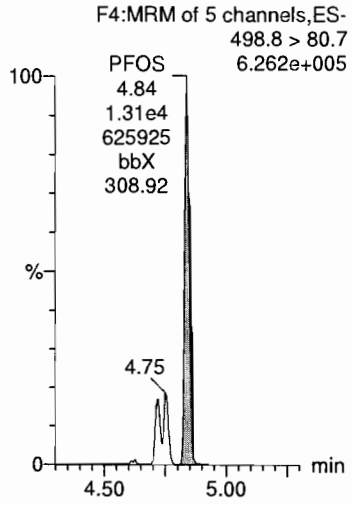

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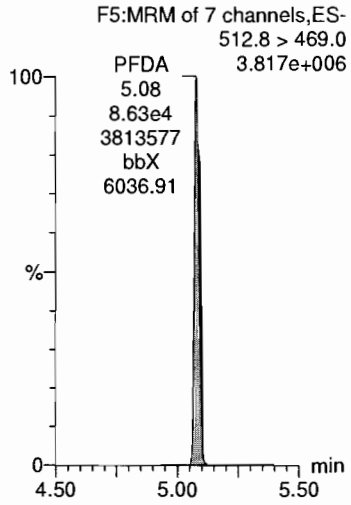

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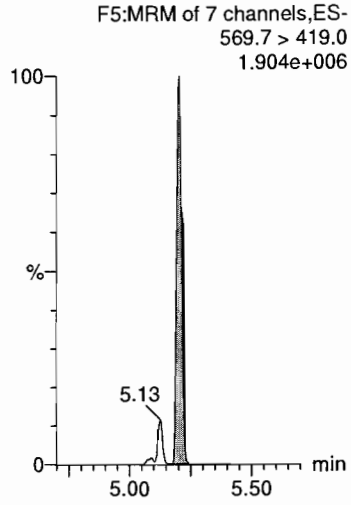

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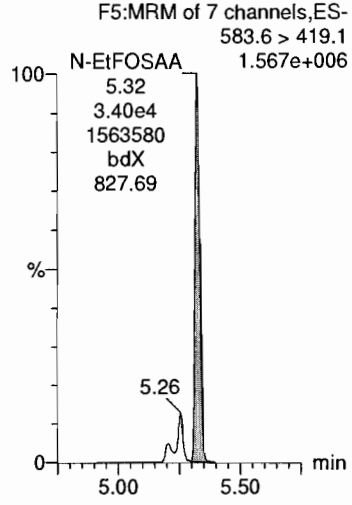
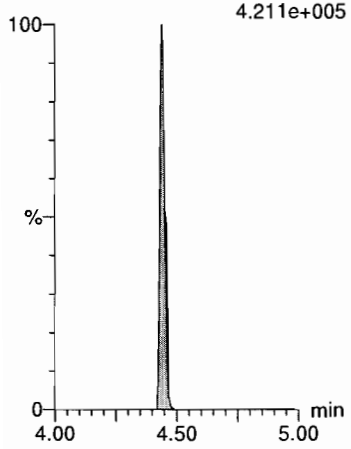
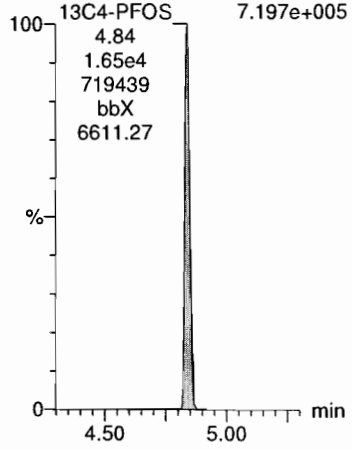


13C2-PFOA



13C4-PFOS



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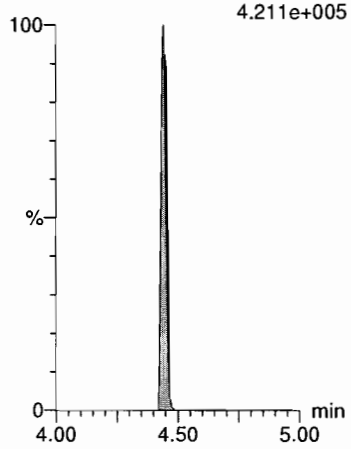
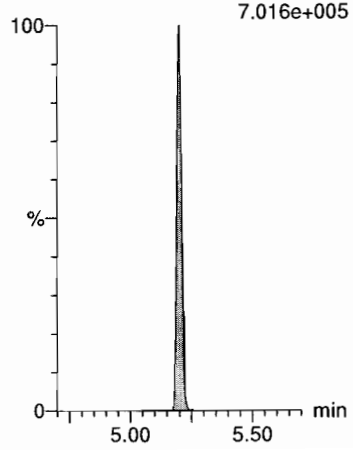


d3-N-MeFOSAA



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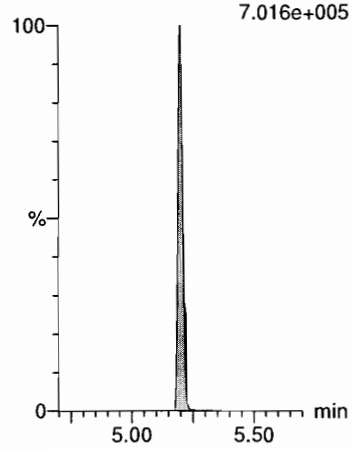

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_11, Date: 24-Aug-2018, Time: 19:08:22, ID: ST180824G3-10 PFC CS5 537 18H2430, Description: PFC CS5 537 18H2430

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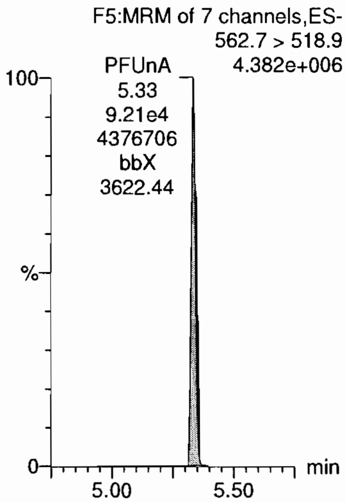

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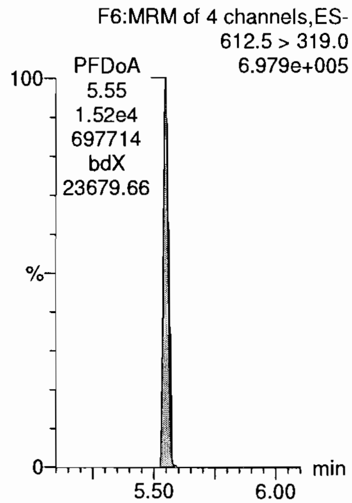

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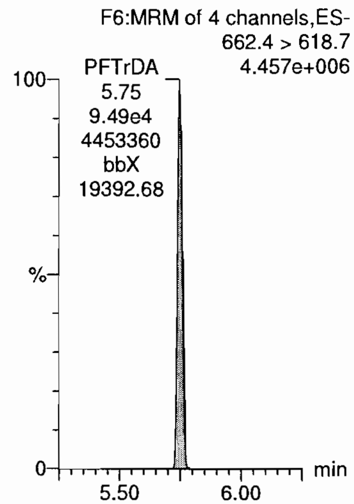
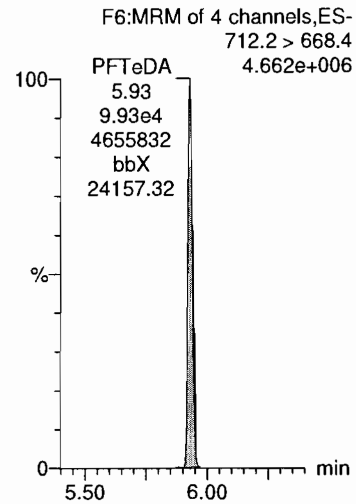


PFTeDA



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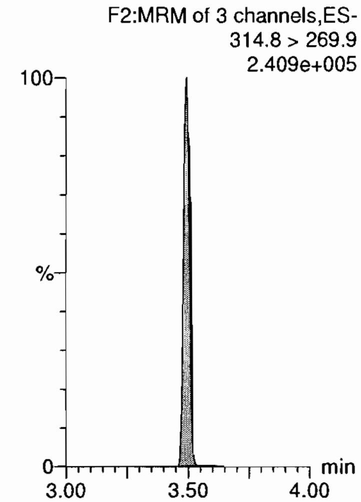

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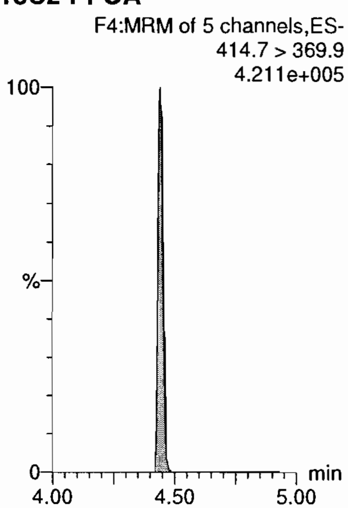

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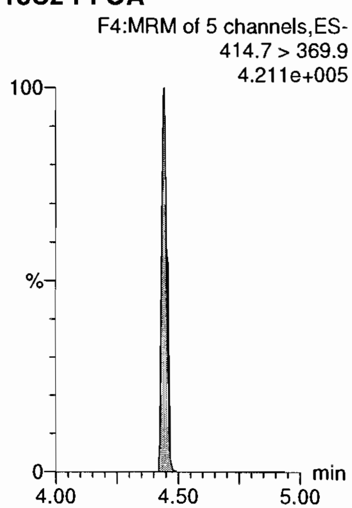

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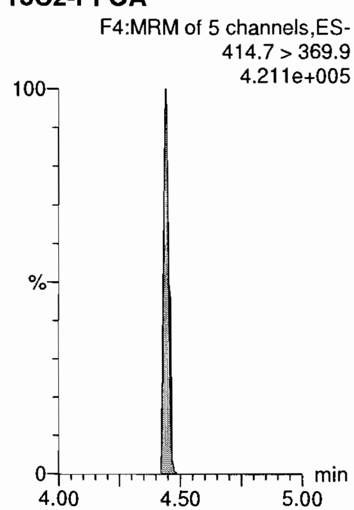

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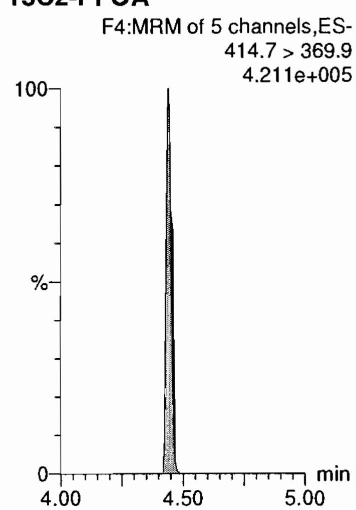

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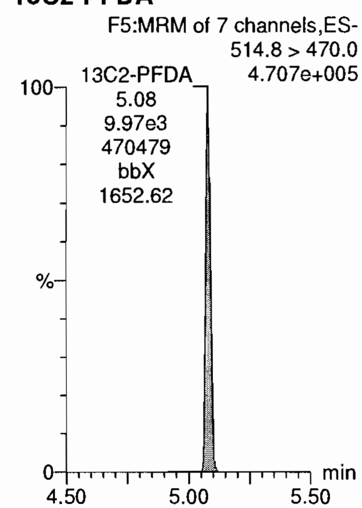


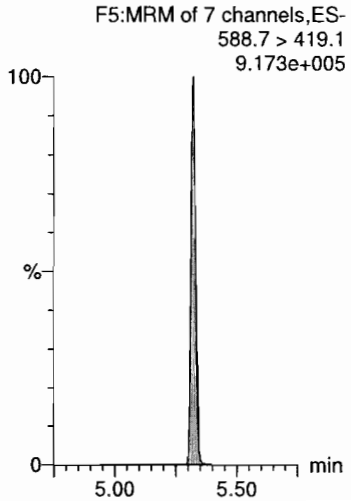
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-CRV.qld

Last Altered: Saturday, August 25, 2018 10:37:11 Pacific Daylight Time
Printed: Saturday, August 25, 2018 10:42:17 Pacific Daylight Time

Name: 180824G3_11, Date: 24-Aug-2018, Time: 19:08:22, ID: ST180824G3-10 PFC CS5 537 18H2430, Description: PFC CS5 537 18H2430

d5-N-EtFOSAA



Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-ICV.qld

Last Altered: Saturday, August 25, 2018 11:15:46 Pacific Daylight Time
Printed: Saturday, August 25, 2018 11:16:21 Pacific Daylight Time

JMW 8/25/18

Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180824G3_13, Date: 24-Aug-2018, Time: 19:34:20, ID: ST180824G3-1 PFC ICV 537 18H2431, Description: PFC ICV 537 18H2431

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBS	298.6> 80.5	4.89e3	1.87e4	1.0000		3.09	3.11	7.52	11.7	116.9
2	2	PFHxA	312.7 > 268.8	8.79e3	1.16e4	1.0000		3.49	3.50	7.55	10.7	106.5
3	3	PFHpA	362.7 > 318.8	1.02e4	1.16e4	1.0000		4.03	4.03	8.74	11.2	112.2
4	4	PFHxS	398.7 > 80.7	6.06e3	1.87e4	1.0000		4.14	4.14	9.31	11.3	112.6
5	5	PFOA	412.8 > 369.0	9.59e3	1.16e4	1.0000		4.44	4.44	8.23	11.3	112.7
6	6	PFNA	462.9 > 419.1	1.17e4	1.16e4	1.0000		4.79	4.79	10.0	11.7	116.9
7	7	PFOS	498.8 >80.7	2.37e3	1.87e4	1.0000		4.84	4.84	3.64	11.6	115.7
8	8	PFDA	512.8 > 469.0	1.15e4	1.16e4	1.0000		5.08	5.08	9.83	11.1	110.7
9	9	N-MeFOSAA	569.7 > 419.0	5.72e3	1.69e4	1.0000		5.20	5.20	13.5	10.7	107.0
10	10	N-EtFOSAA	583.6 >419.1	5.53e3	1.69e4	1.0000		5.32	5.32	13.1	11.3	113.2
11	11	PFUnA	562.7 > 518.9	1.22e4	1.16e4	1.0000		5.34	5.33	10.5	10.8	108.0
12	12	PFDoA	612.5 > 319.0	2.03e3	1.16e4	1.0000		5.55	5.55	1.74	11.3	113.3
13	13	PFTrDA	662.4 > 618.7	1.21e4	1.16e4	1.0000		5.75	5.75	10.4	10.6	106.1
14	14	PFTeDA	712.2>668.4	1.24e4	1.16e4	1.0000		5.94	5.93	10.6	10.4	103.6
15	15	13C2-PFHxA	314.8 > 269.9	7.15e3	1.16e4	1.0000	0.651	3.56	3.50	6.14	9.42	94.2
16	16	13C2-PFDA	514.8 > 470.0	1.17e4	1.16e4	1.0000	1.028	5.06	5.08	10.0	9.74	97.4
17	17	d5-N-EtFOSAA	588.7> 419.1	2.37e4	1.69e4	1.0000	1.457	5.20	5.32	55.9	38.3	95.9
18	18	13C2-PFOA	414.7 > 369.9	1.16e4	1.16e4	1.0000	1.000	4.45	4.44	10.0	10.0	100.0
19	19	13C4-PFOS	502.8>80.5	1.87e4	1.87e4	1.0000	1.000	4.84	4.84	28.7	28.7	100.0
20	20	d3-N-MeFOSAA	572.7 > 419.1	1.69e4	1.69e4	1.0000	1.000	5.21	5.20	40.0	40.0	100.0

CGH 8/25/18

Vista Analytical Laboratory

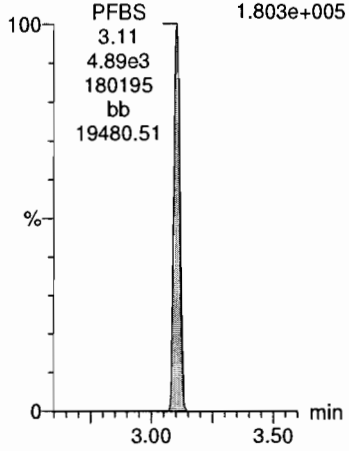
Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-ICV.qld

Last Altered: Saturday, August 25, 2018 11:15:46 Pacific Daylight Time
Printed: Saturday, August 25, 2018 11:16:21 Pacific Daylight Time

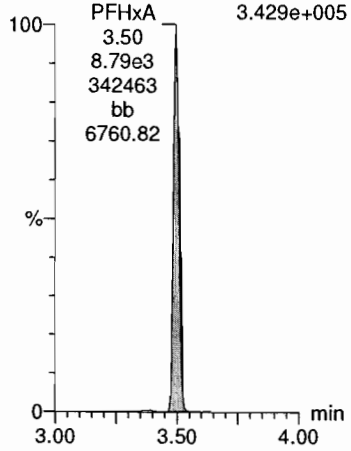
Method: X:\G1.PRO\MethDB\PFAS_DW_L14_0824.mdb 25 Aug 2018 09:46:45
Calibration: X:\G1.PRO\CurveDB\C18_537_Q1_08-24-18_L14.cdb 25 Aug 2018 10:37:11

Name: 180824G3_13, Date: 24-Aug-2018, Time: 19:34:20, ID: ST180824G3-1 PFC ICV 537 18H2431, Description: PFC ICV 537 18H2431

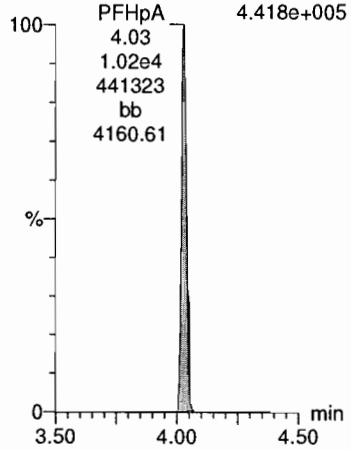
PFBS



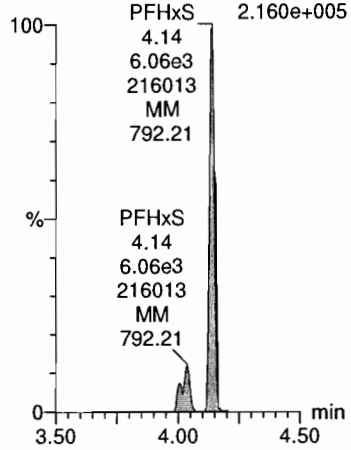
PFHxA



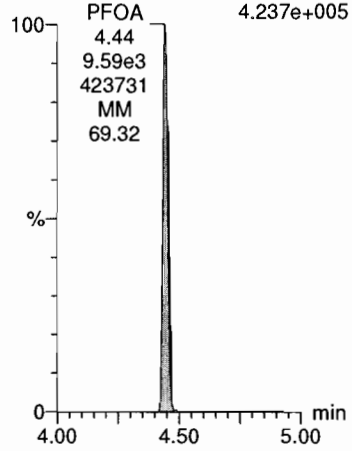
PFHpA



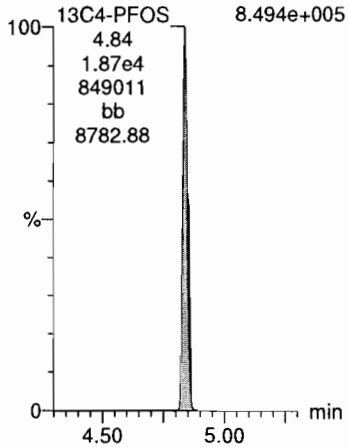
PFHxS



PFOA



13C4-PFOS



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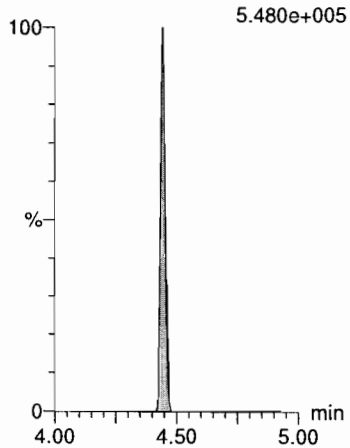

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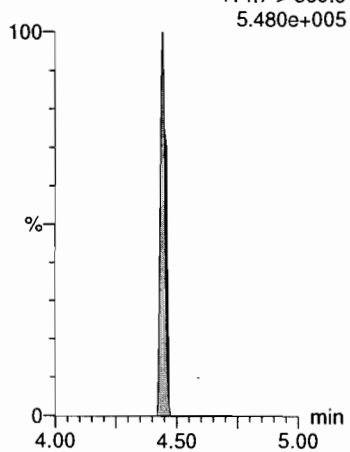

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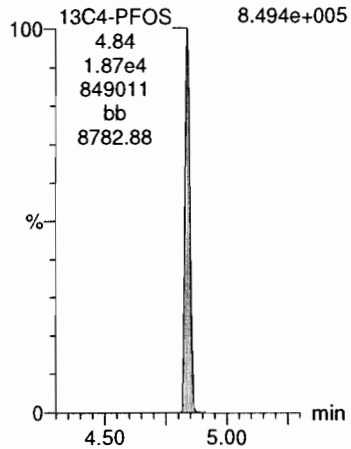

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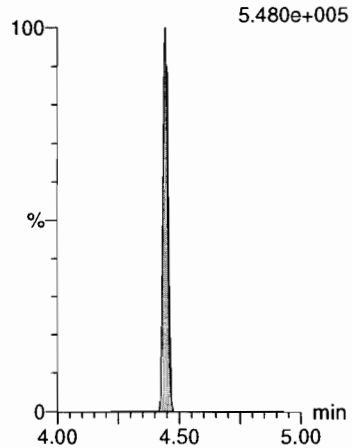

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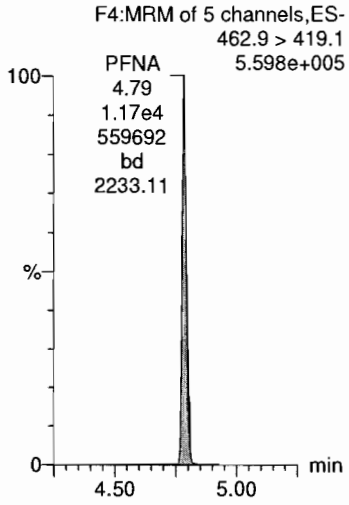
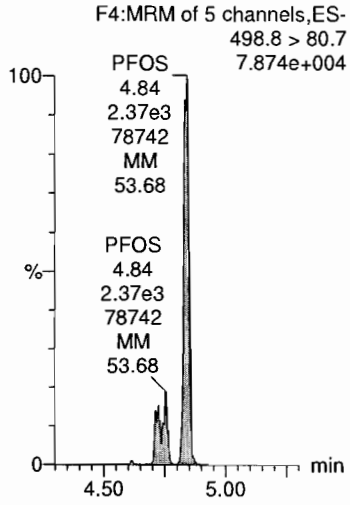
Printed: Saturday, August 25, 2018 11:16:21 Pacific Daylight Time

Name: 180824G3_13, Date: 24-Aug-2018, Time: 19:34:20, ID: ST180824G3-1 PFC ICV 537 18H2431, Description: PFC ICV 537 18H2431

PFNA



PFOS



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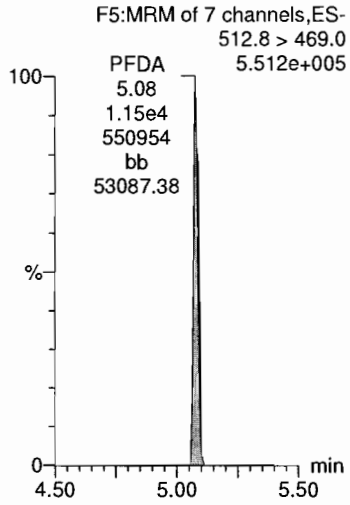
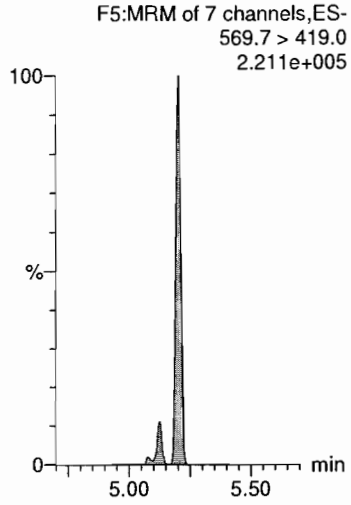
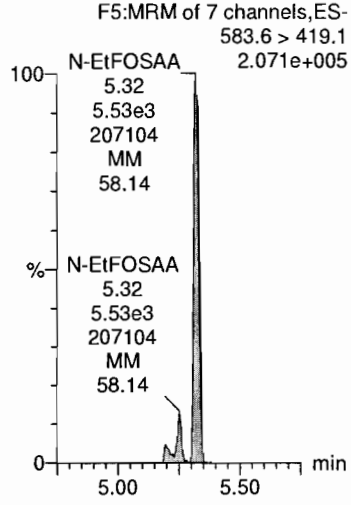


N-MeFOSAA



N-EtFOSAA



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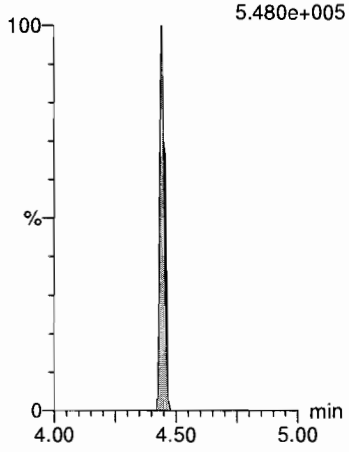

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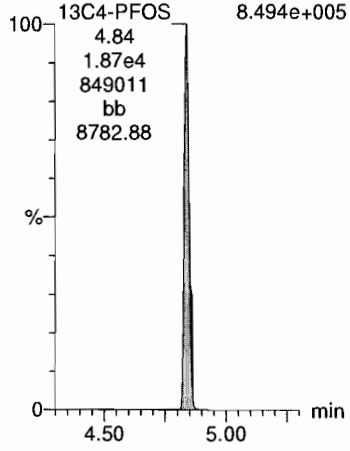

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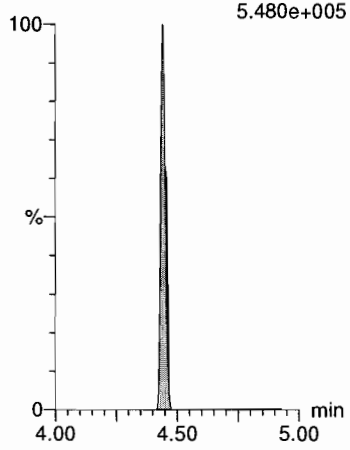

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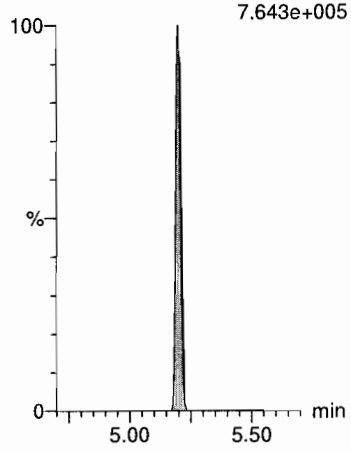
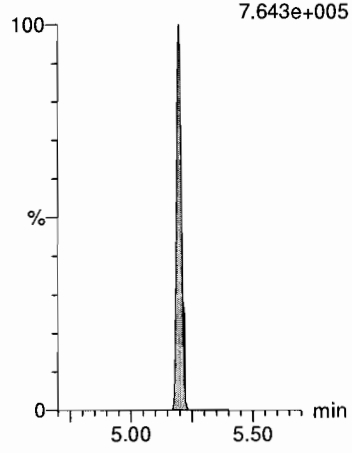


d3-N-MeFOSAA



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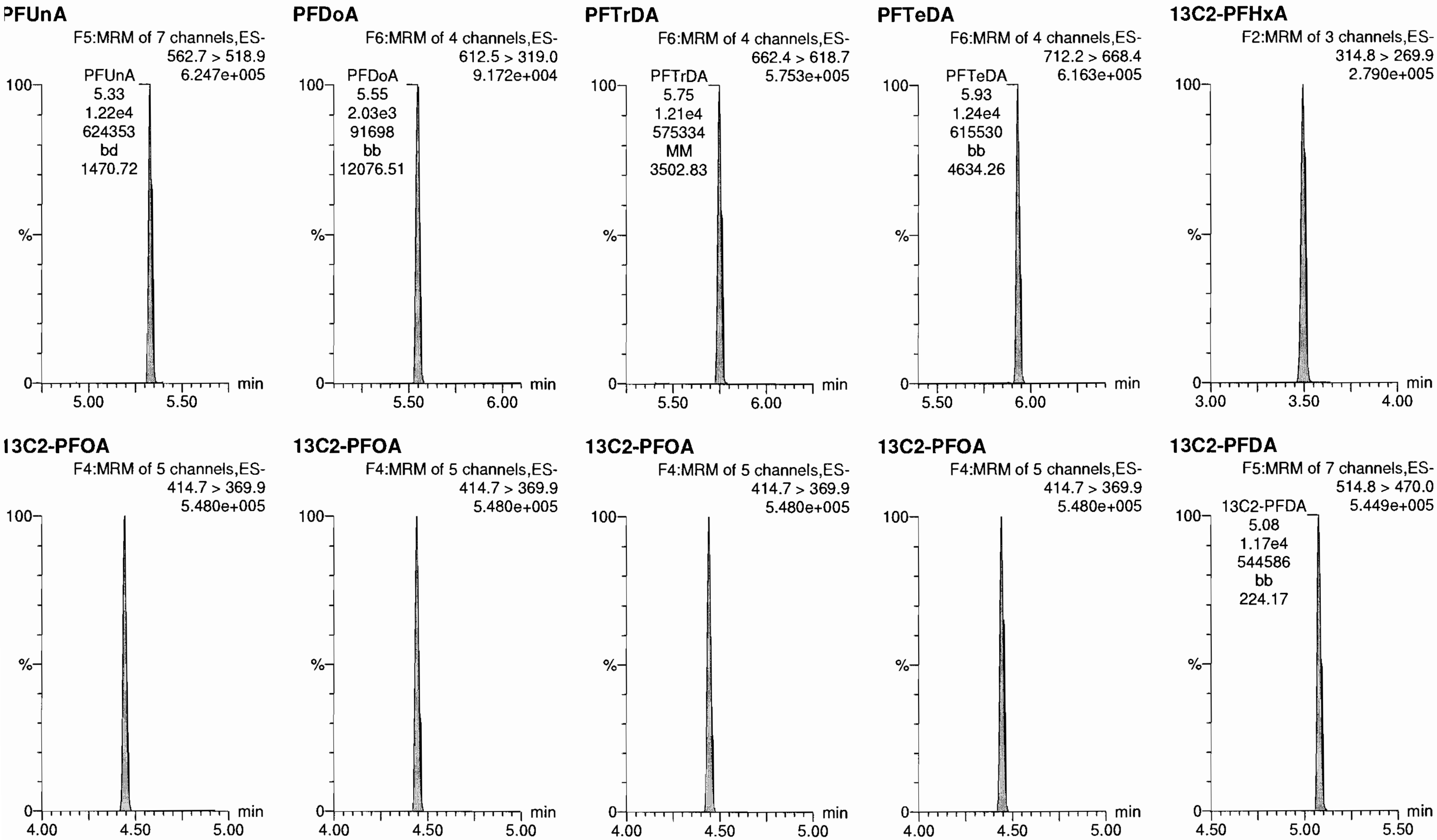
Last Altered: Saturday, August 25, 2018 11:15:46 Pacific Daylight Time
Printed: Saturday, August 25, 2018 11:16:21 Pacific Daylight Time

Name: 180824G3_13, Date: 24-Aug-2018, Time: 19:34:20, ID: ST180824G3-1 PFC ICV 537 18H2431, Description: PFC ICV 537 18H2431



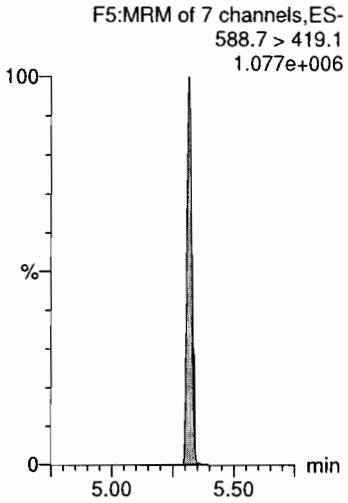
Vista Analytical Laboratory

Dataset: X:\G1.PRO\Results\2018\180824G3\180824G3-ICV.qld

Last Altered: Saturday, August 25, 2018 11:15:46 Pacific Daylight Time
Printed: Saturday, August 25, 2018 11:16:21 Pacific Daylight Time

Name: 180824G3_13, Date: 24-Aug-2018, Time: 19:34:20, ID: ST180824G3-1 PFC ICV 537 18H2431, Description: PFC ICV 537 18H2431

d5-N-EtFOSAA



Tune Checks

Tune check 08-24-18

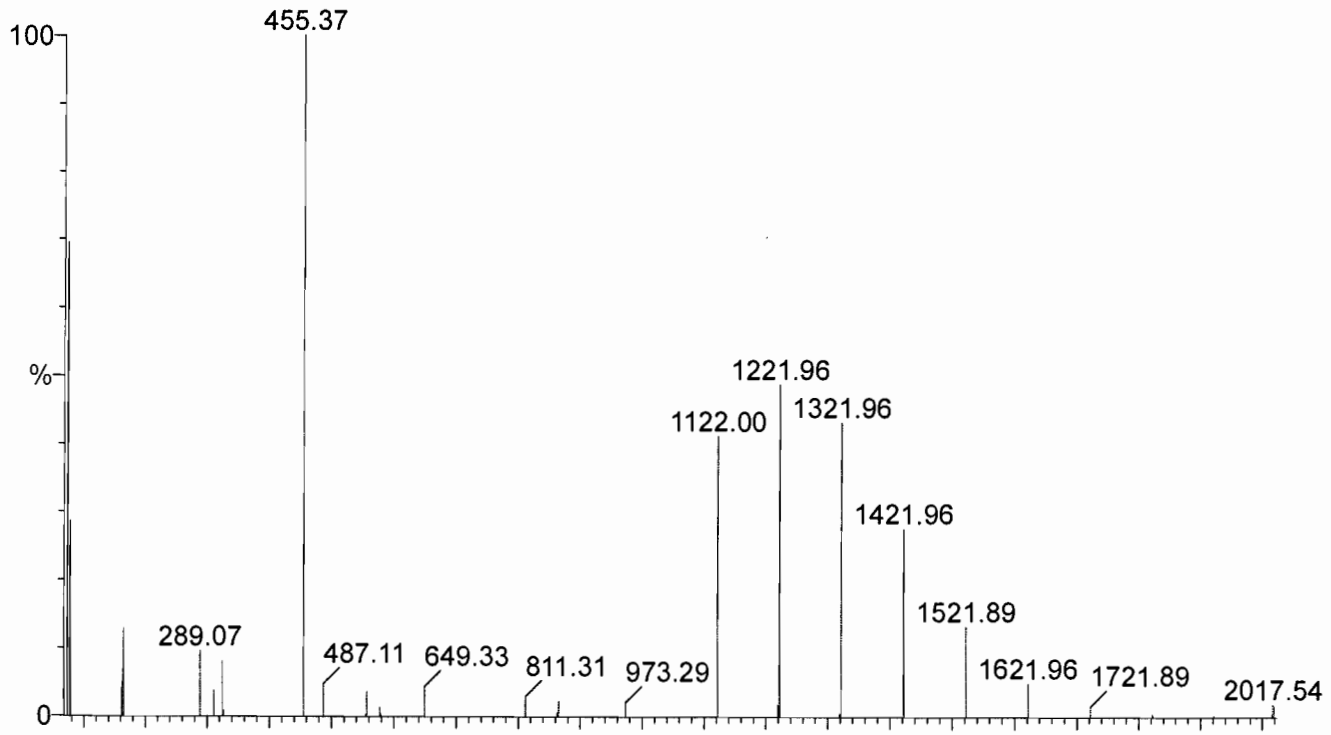
Calibration Verification Report - MS1 Static

Printed: **Fri Aug 24 11:27:08 2018**

20180823

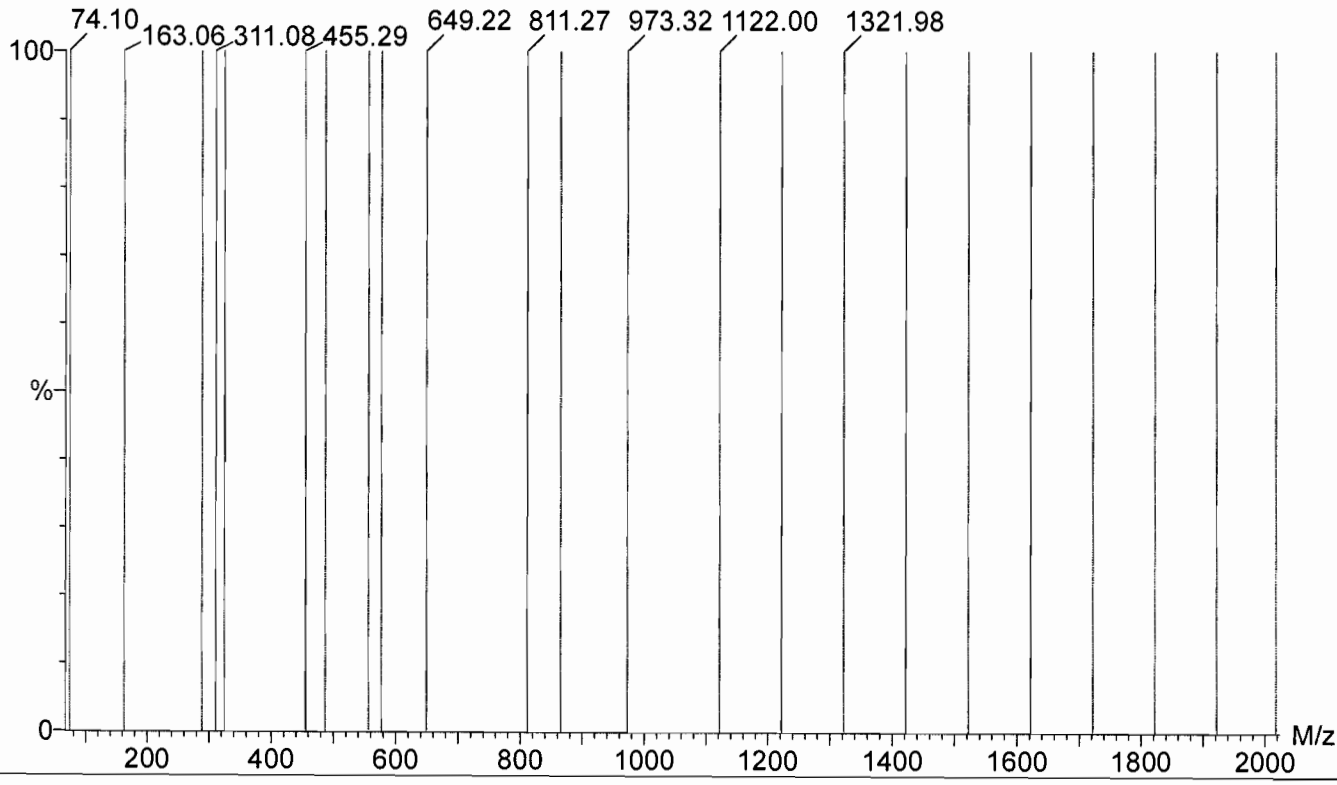
Data file: STATMS1V - Calibrated

22 matches of 23 tested references

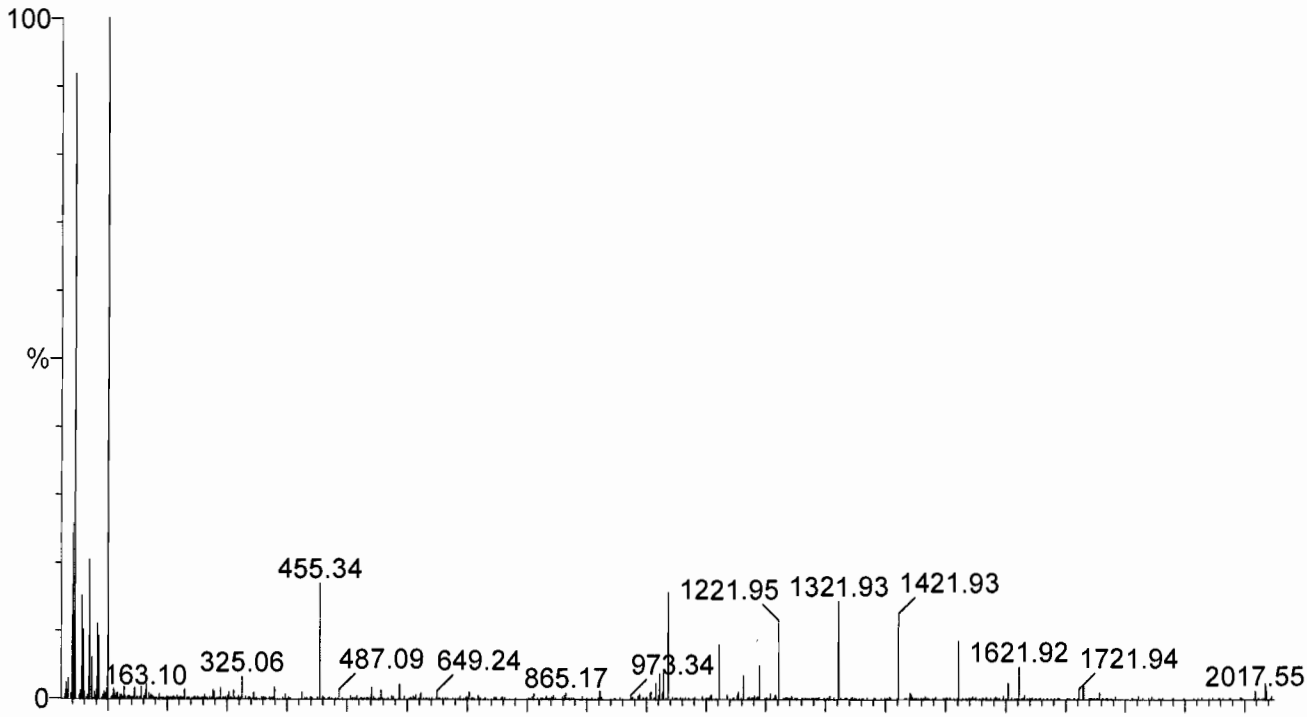


Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref

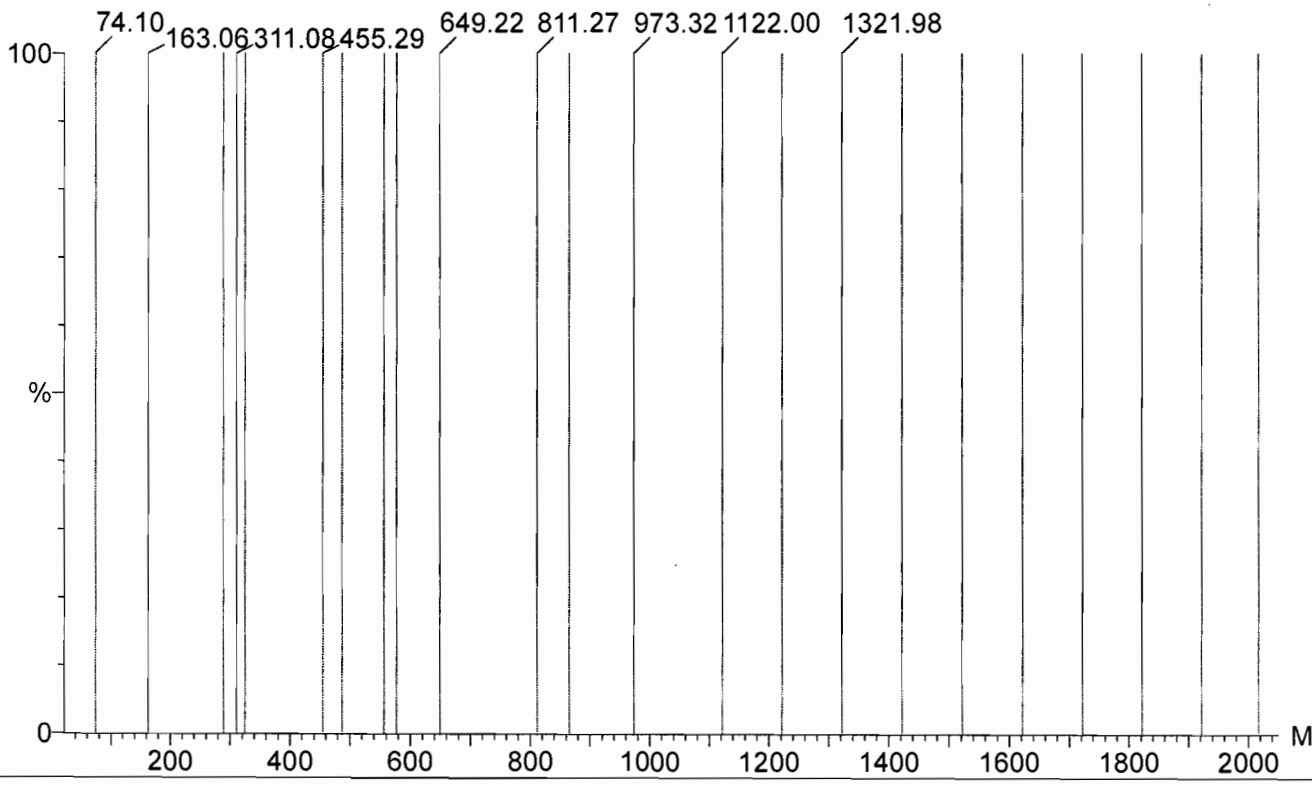
Mean residual = 0.105 amu



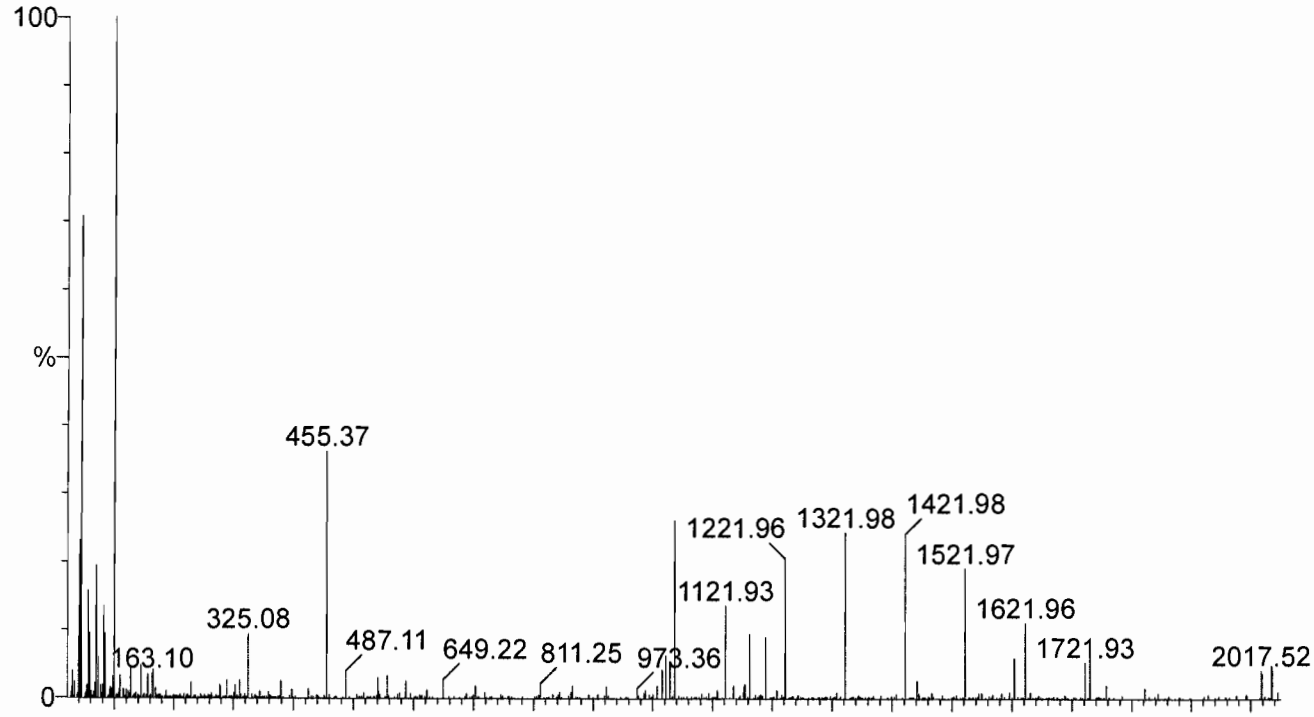
Data file: SCNMS1V - Calibrated 23 matches of 23 tested references



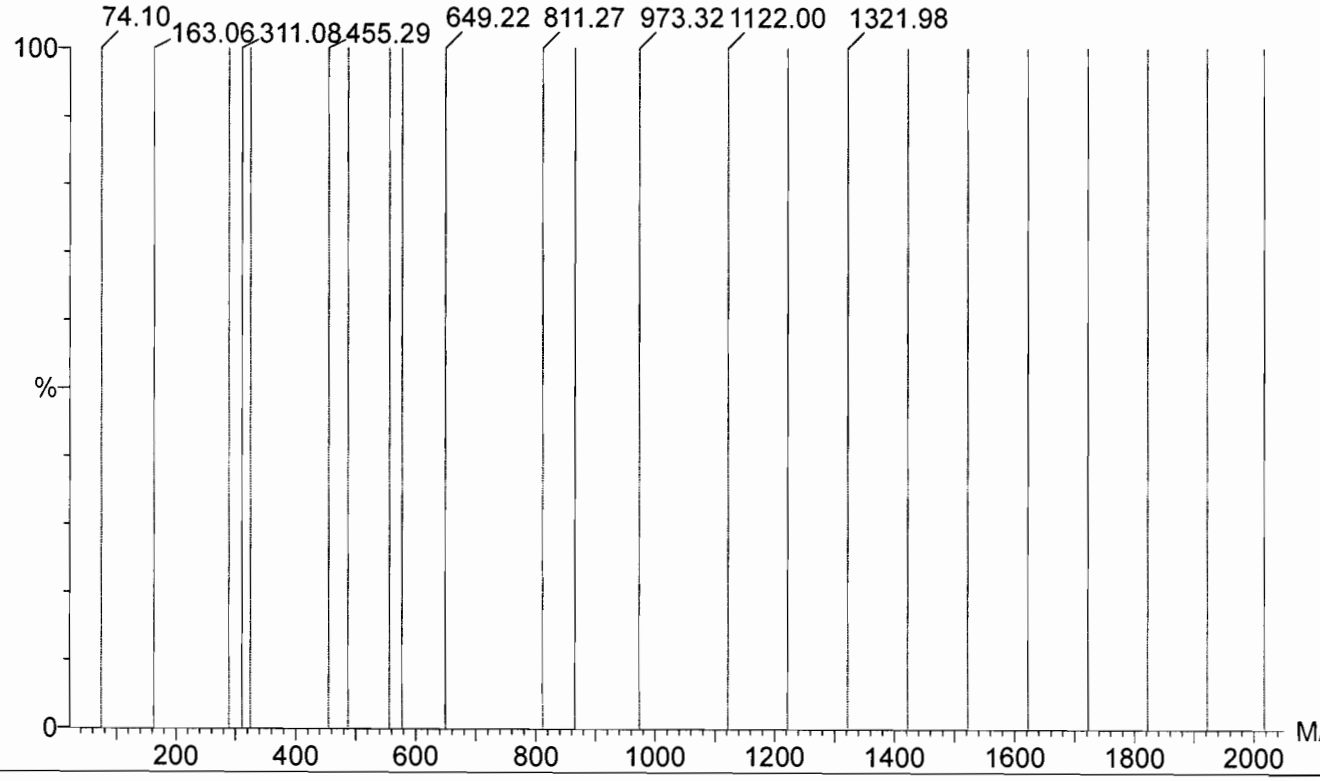
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.115 amu



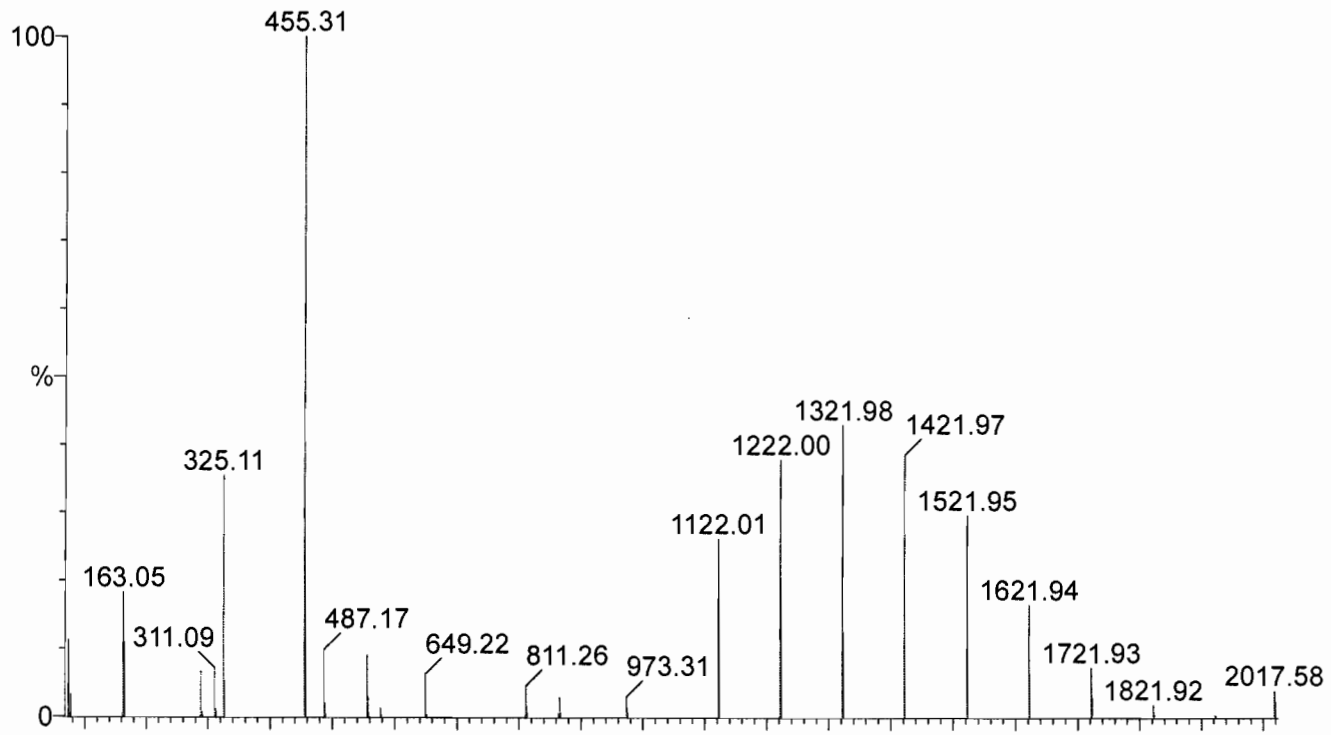
Data file: FASTMS1V - Calibrated 22 matches of 23 tested references



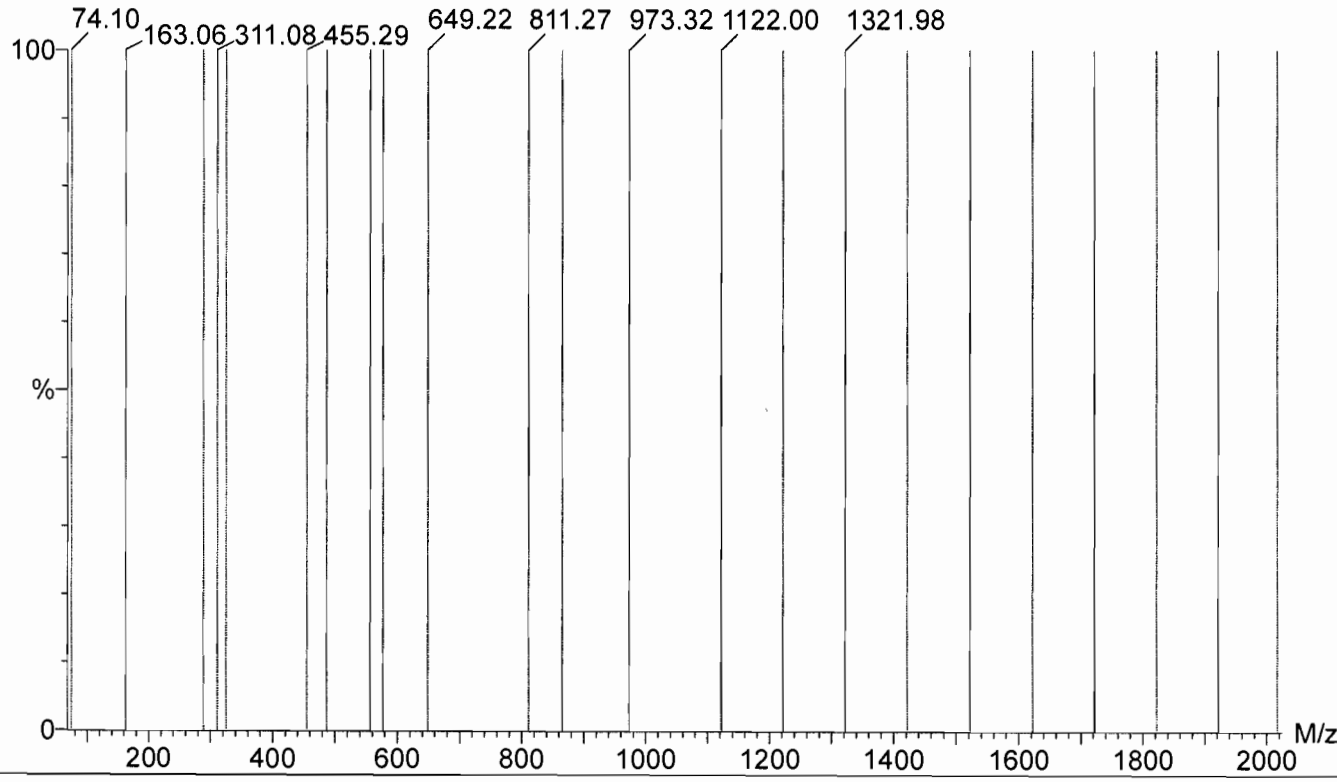
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0382 amu



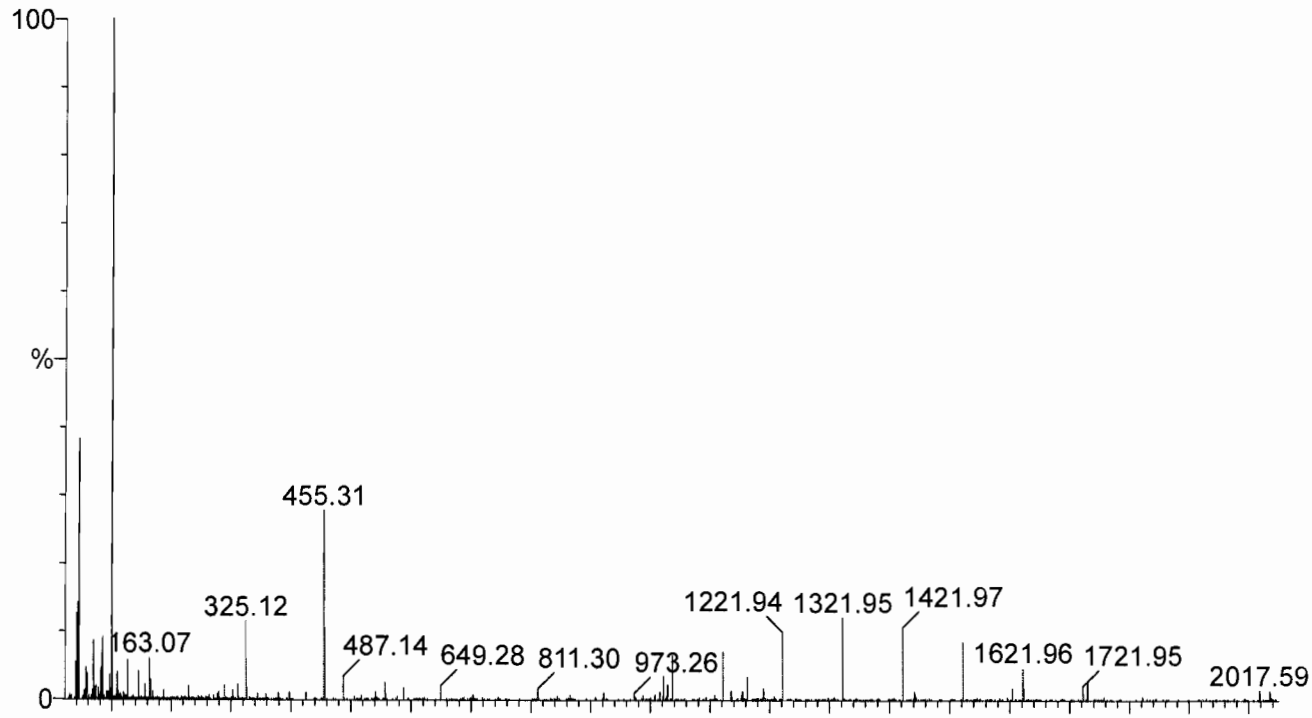
Data file: STATMS2V - Calibrated 23 matches of 23 tested references



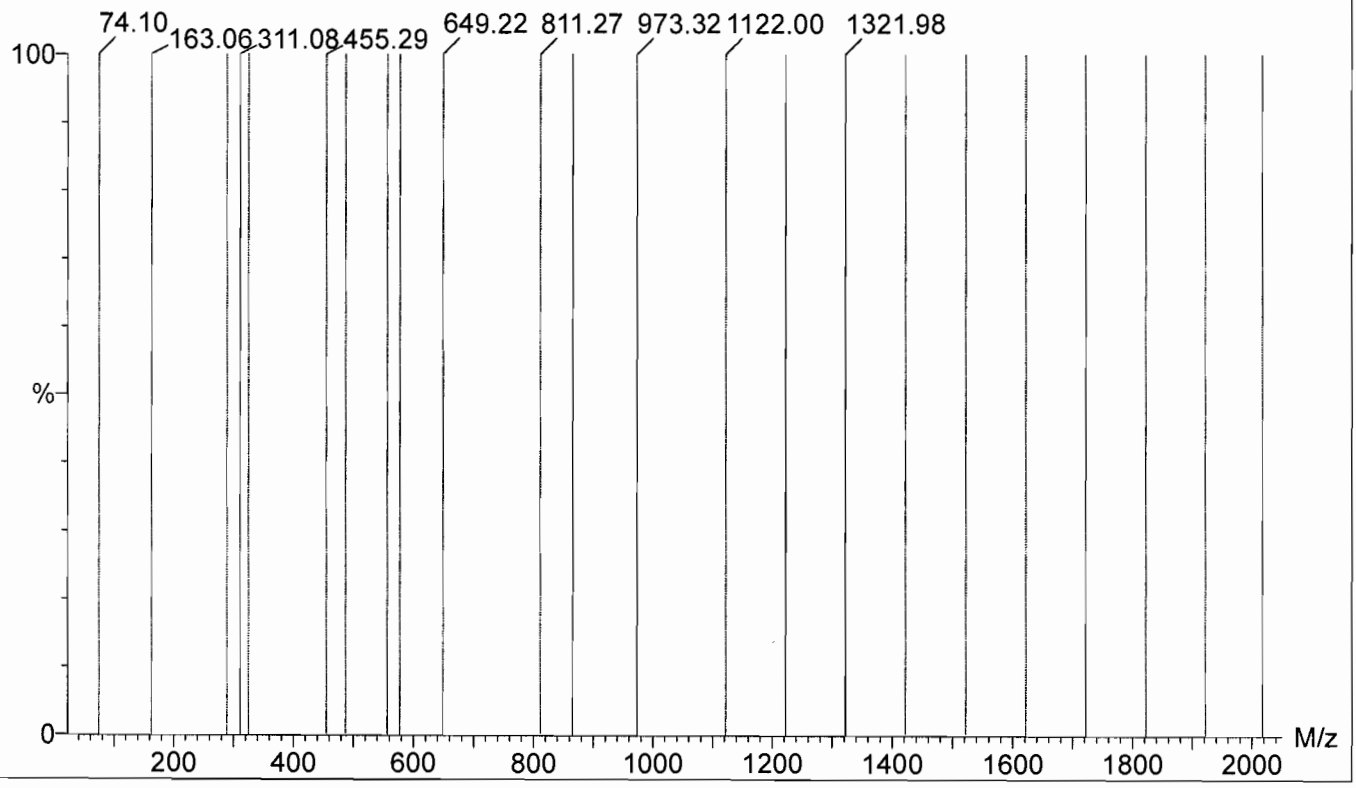
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0211 amu



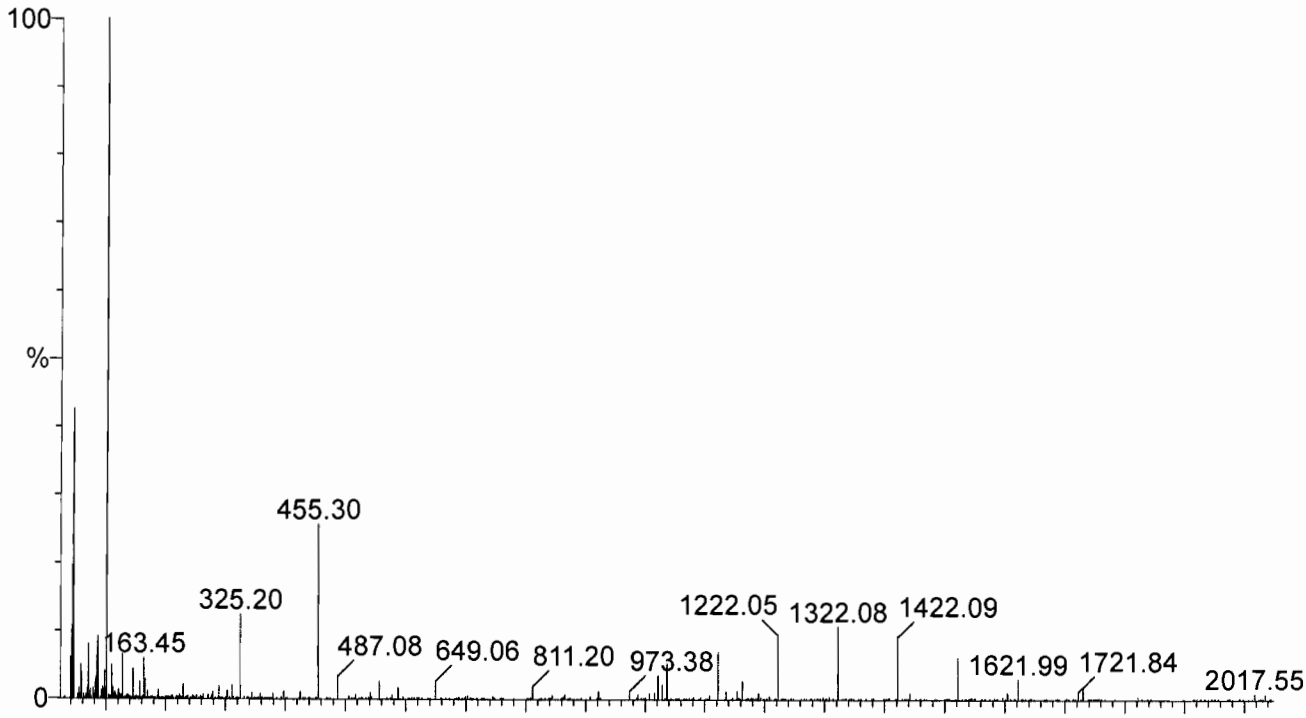
Data file: SCNMS2V - Calibrated 23 matches of 23 tested references



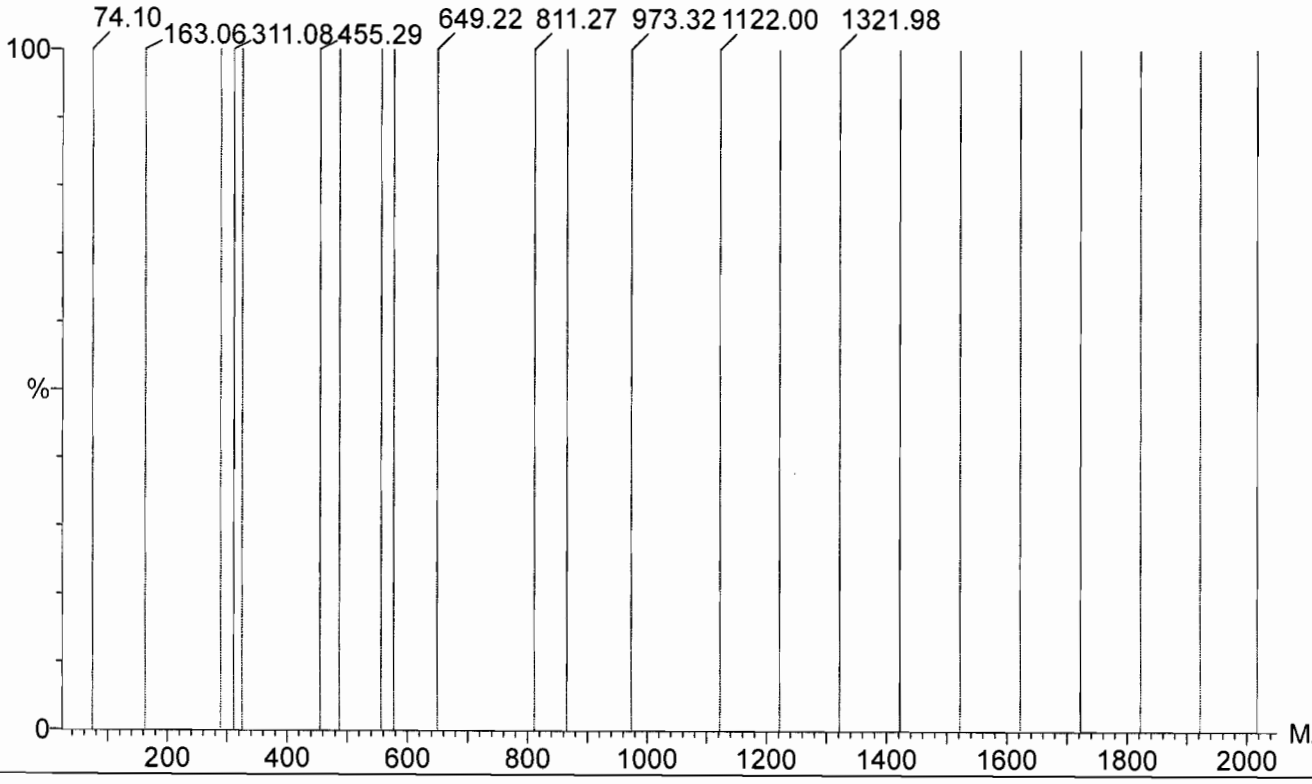
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0319 amu



Data file: FASTMS2V - Calibrated 23 matches of 23 tested references



Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.137 amu



Tune check 08-27-18

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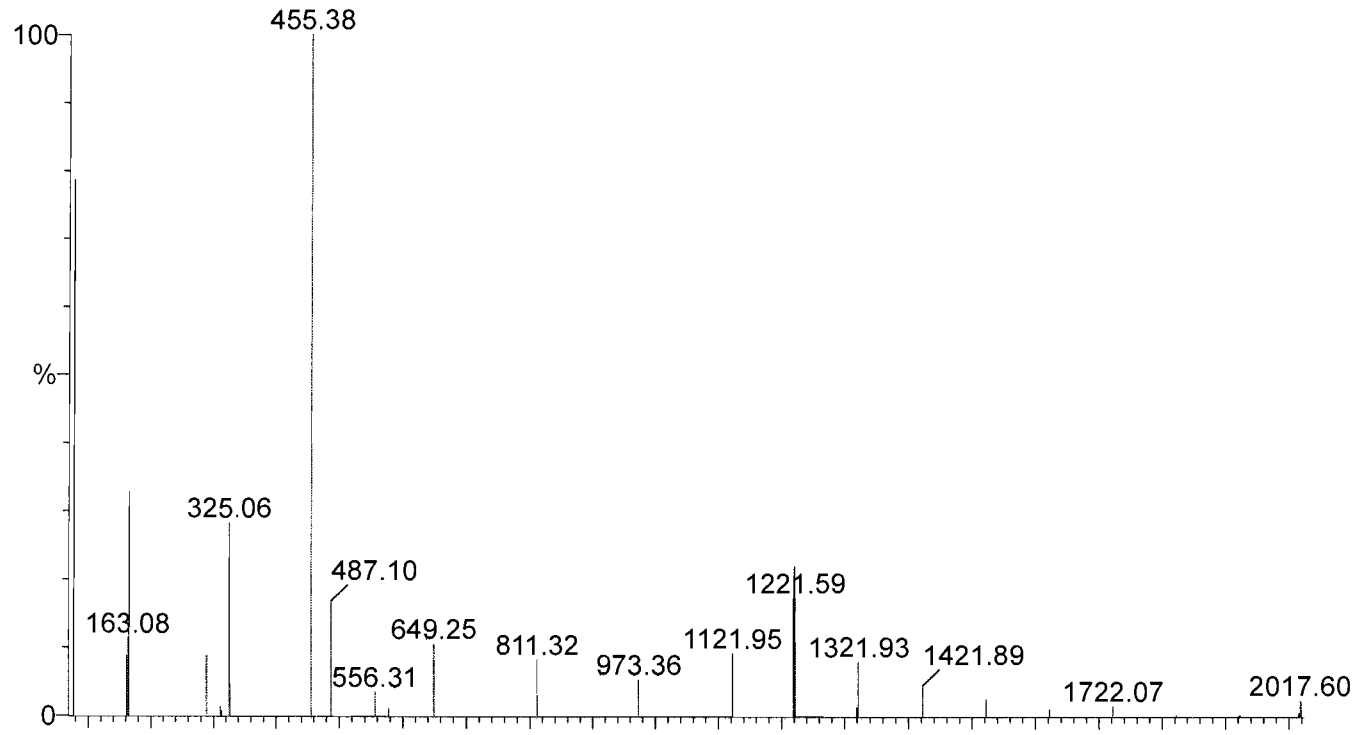
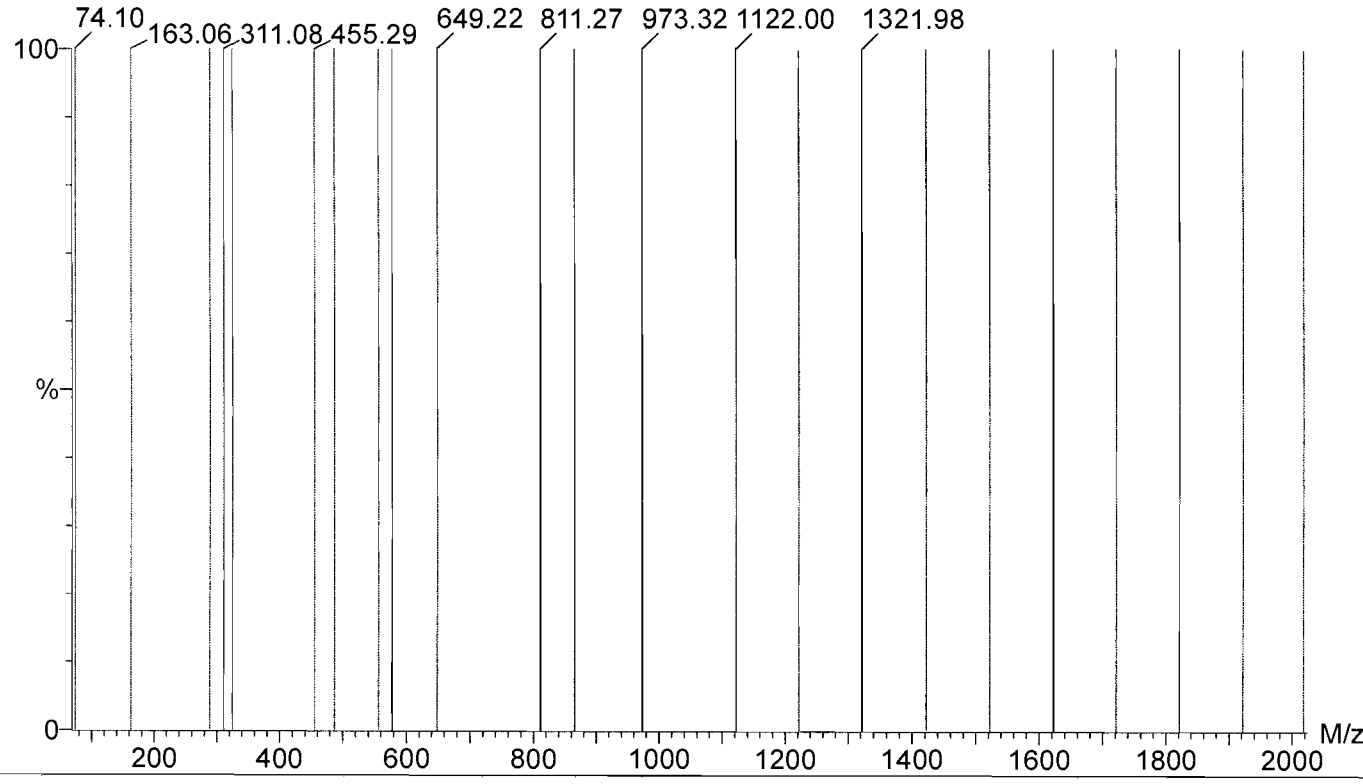
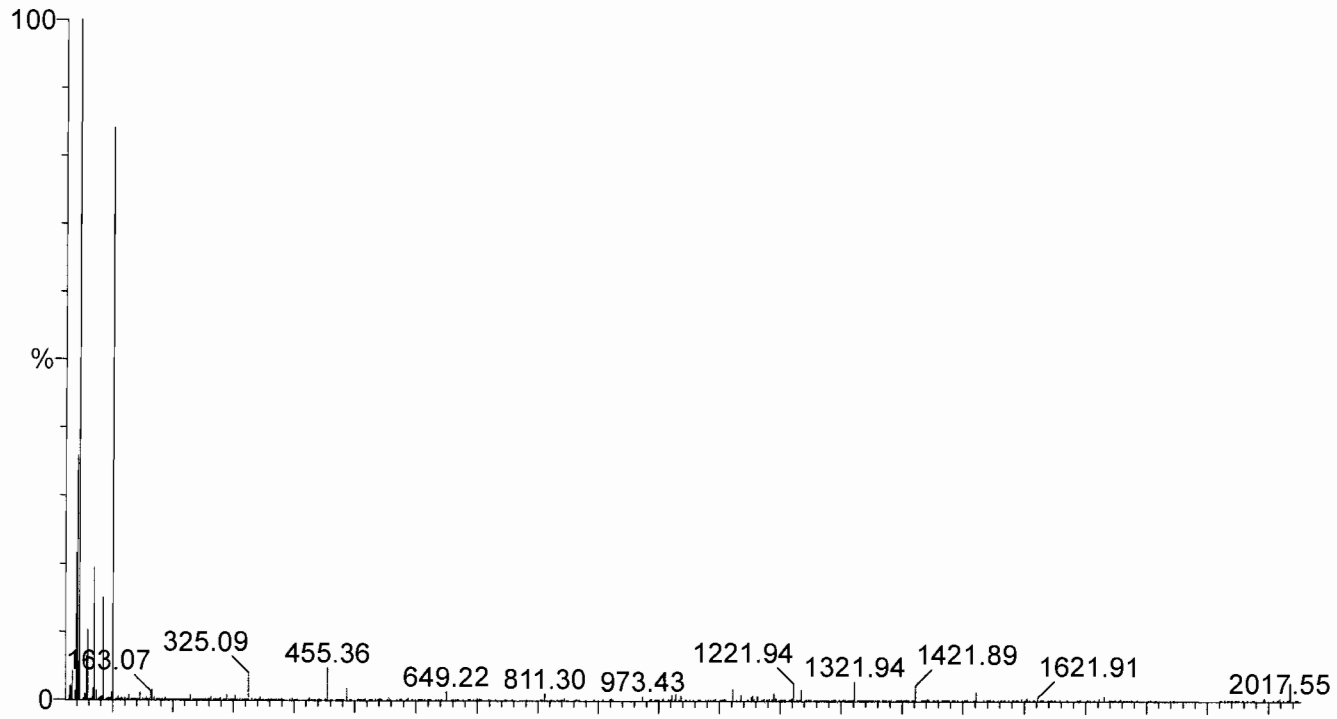
Data file: STATMS1V - Calibrated 21 matches of 23 tested references



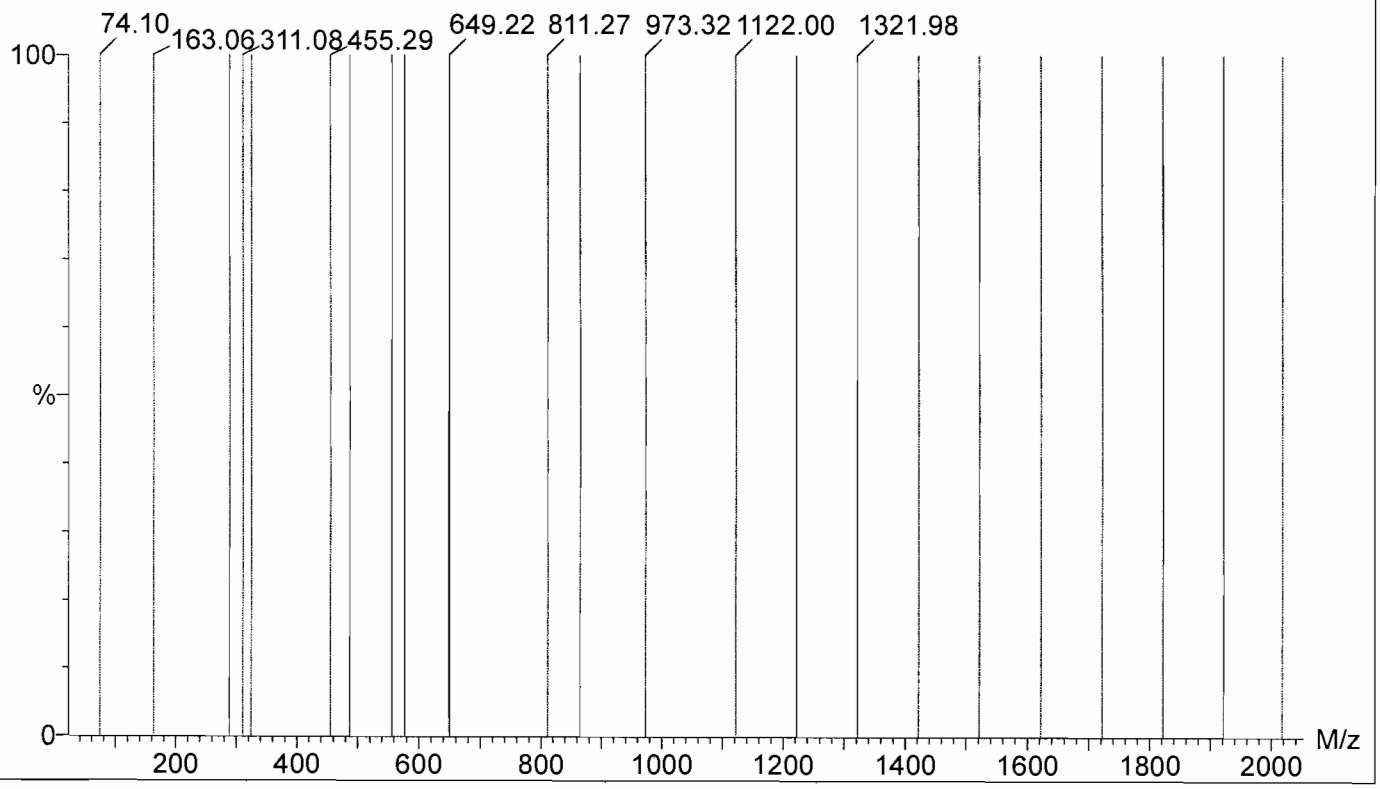
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0879 amu



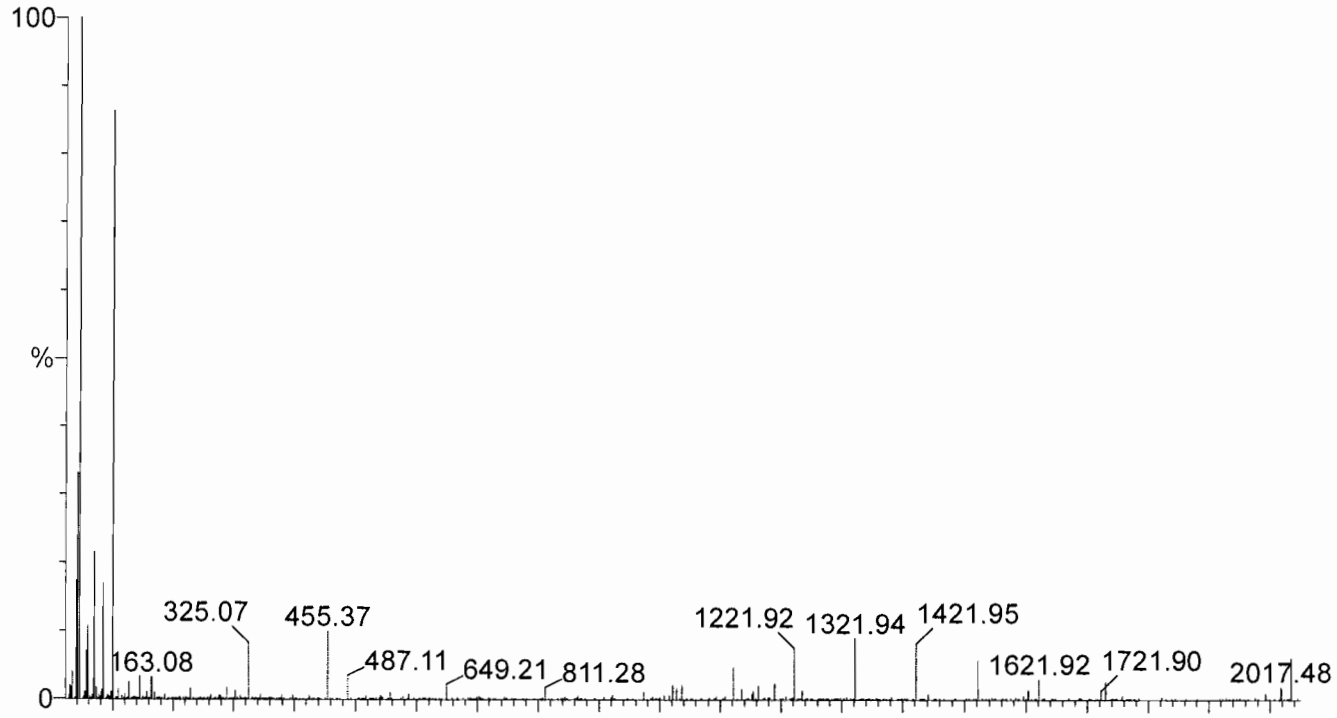
Data file: SCNMS1V - Calibrated 21 matches of 23 tested references



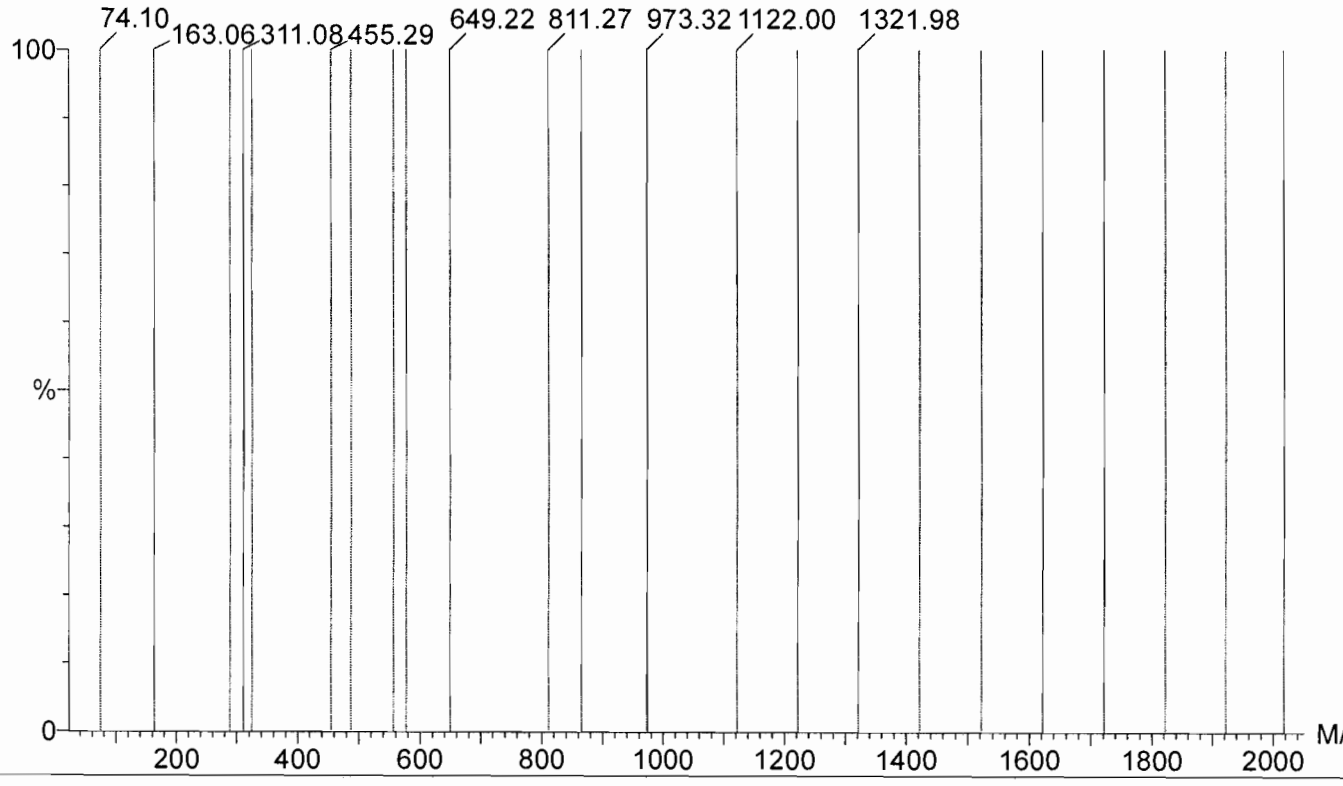
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0558 amu



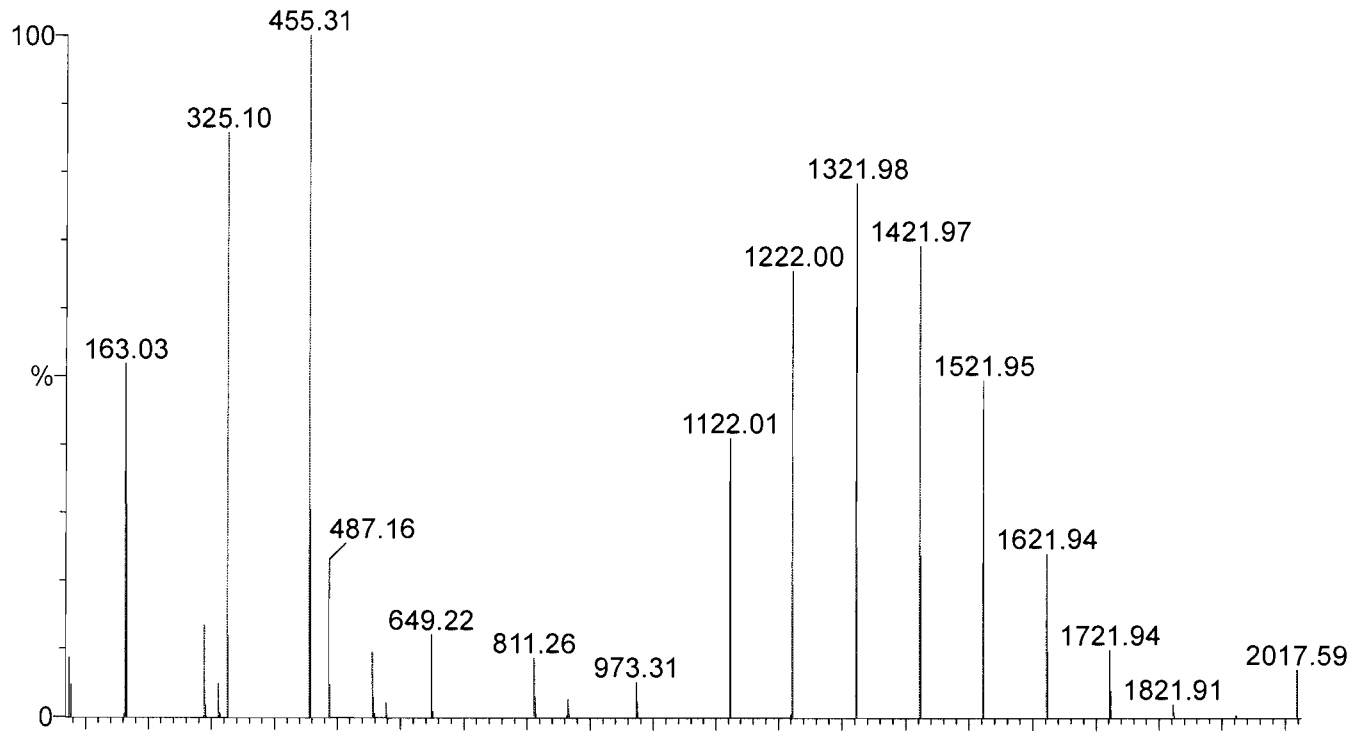
Data file: FASTMS1V - Calibrated 23 matches of 23 tested references



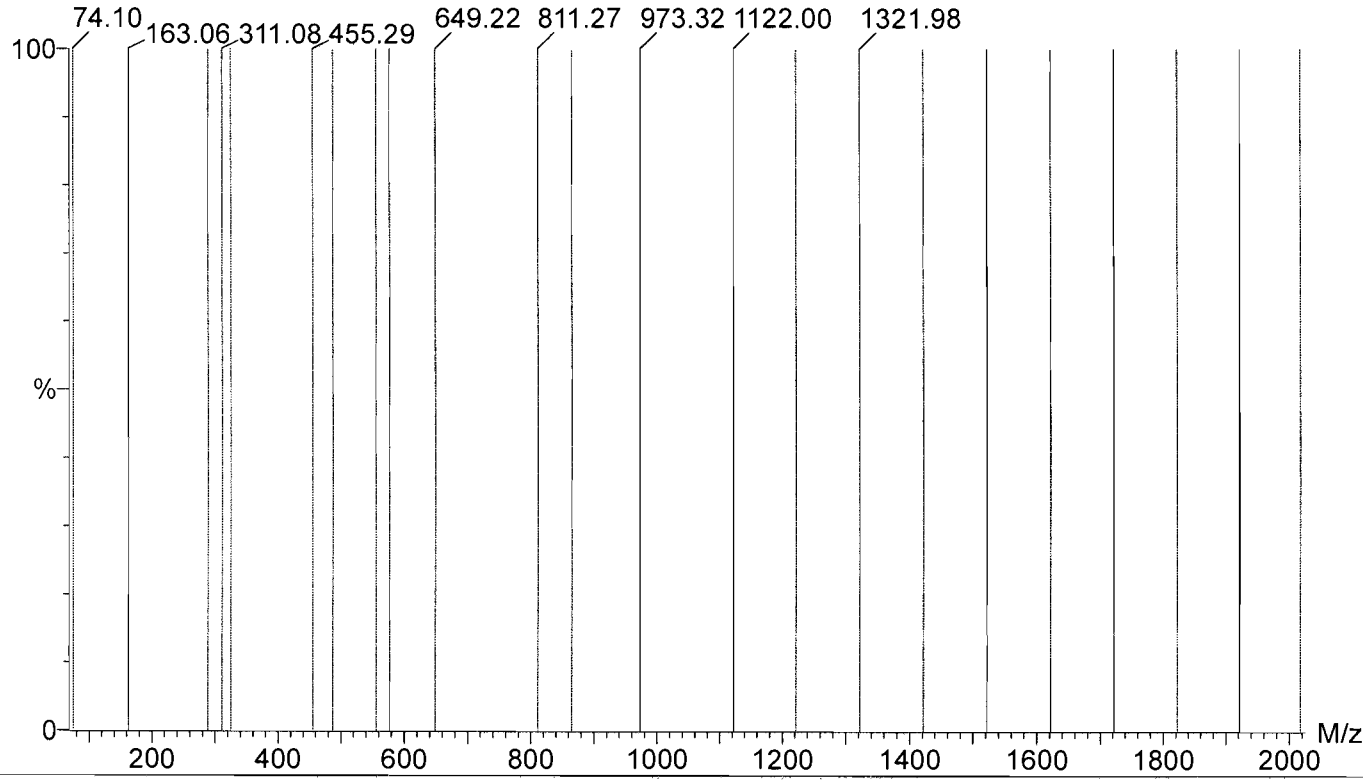
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.086 amu



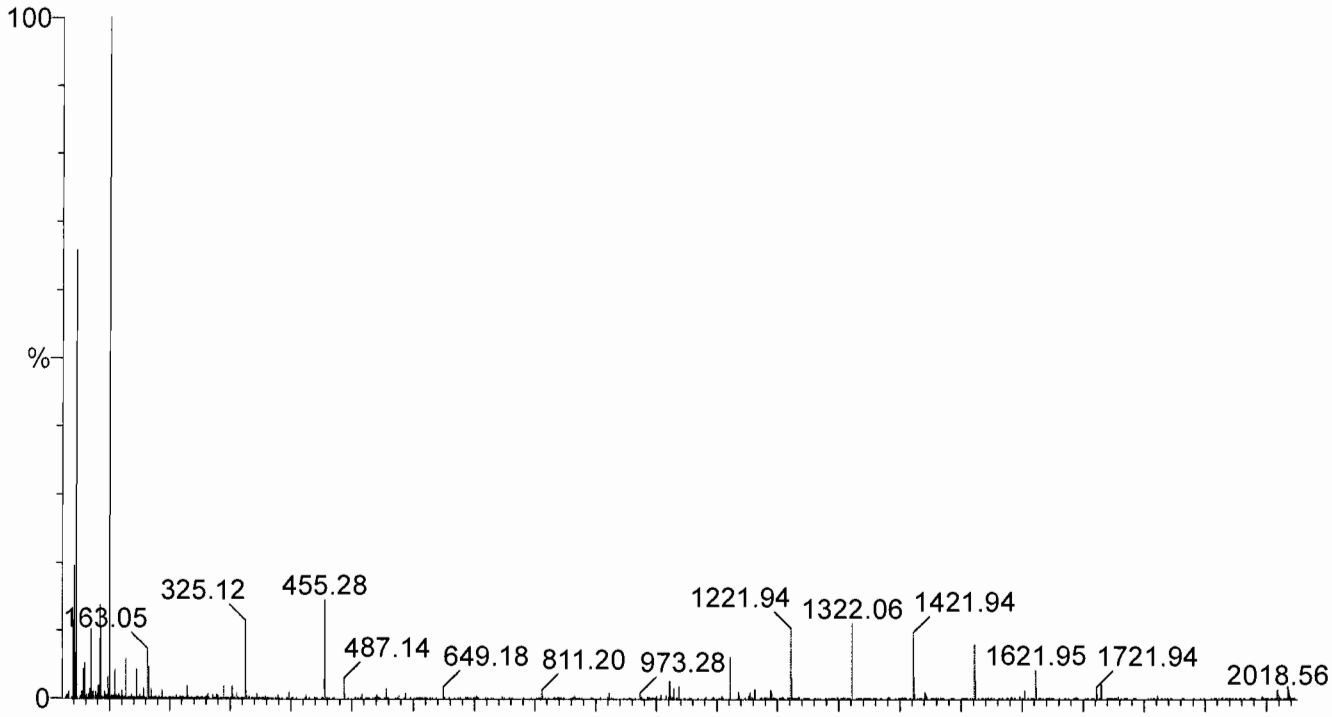
Data file: STATMS2V - Calibrated 23 matches of 23 tested references



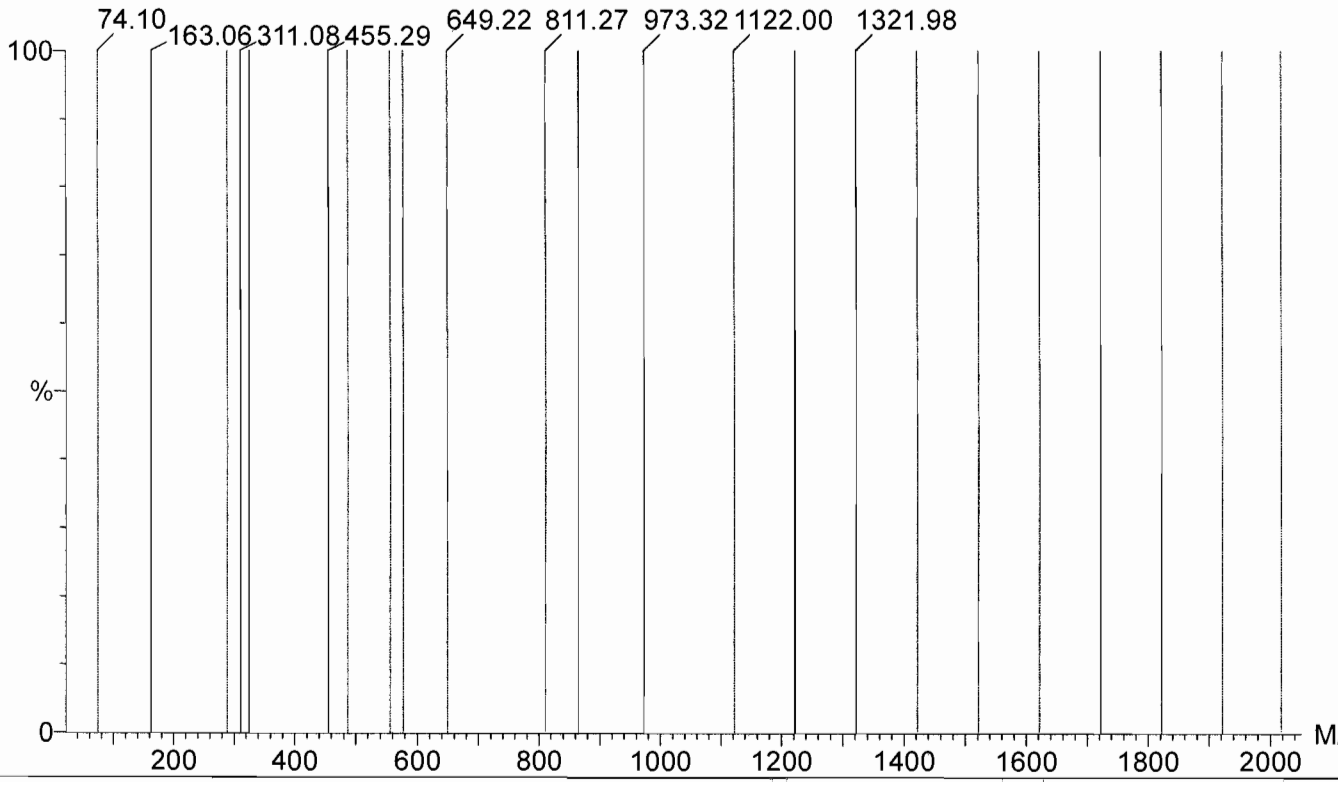
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0212 amu

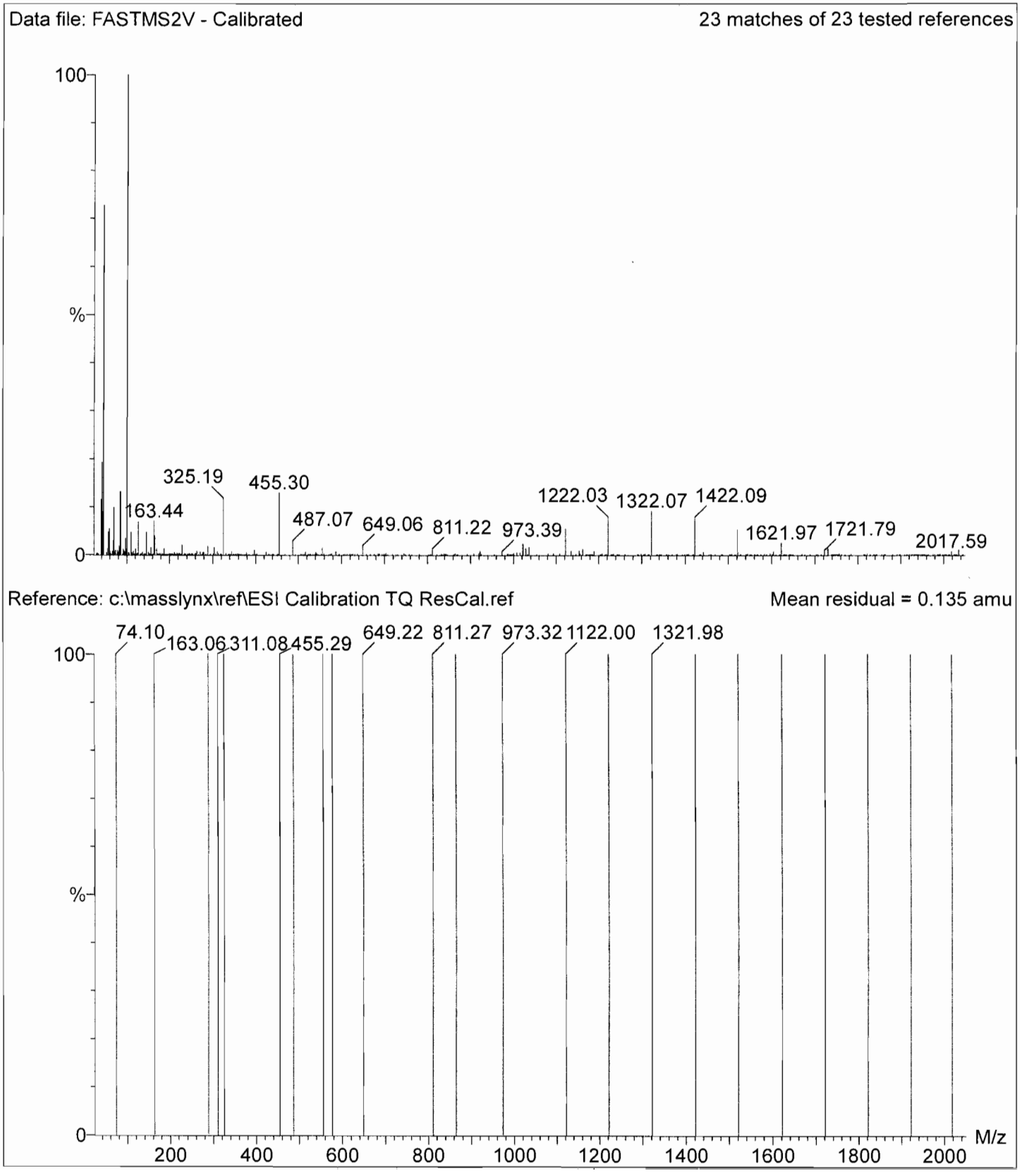


Data file: SCNMS2V - Calibrated 23 matches of 23 tested references



Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref Mean residual = 0.0784 amu




Data file: FASTMS2V - Calibrated
23 matches of 23 tested references
100
%
0
325.19
455.30
163.44
487.07
649.06
811.22
973.39
1222.03
1322.07
1422.09
1621.97
1721.79
2017.59
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref
Mean residual = 0.135 amu
74.10
163.06
311.08
455.29
649.22
811.27
973.32
1122.00
1321.98
100
%
0
200
400
600
800
1000
1200
1400
1600
1800
2000
M/z

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	Date_Time_Collected	Date_Received	Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date
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N6247016D9000	0008		CHERRY_POINT_MCAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	08/23/2018 09:00	08/23/2018			20180823	09:00:00	20180827
N6247016D9000	0008		CHERRY_POINT_MCAS	LCS	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	08/23/2018 09:00	08/23/2018			20180823	09:00:00	20180827
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N6247016D9000	0008		CHERRY_POINT_MCAS	Matrix Spike Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	08/23/2018 09:00	08/23/2018			20180823	09:00:00	20180827
N6247016D9000	0008		CHERRY_POINT_MCAS	Matrix Spike Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	08/23/2018 09:00	08/23/2018			20180823	09:00:00	20180827
N6247016D9000	0008		CHERRY_POINT_MCAS	Matrix Spike Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	08/23/2018 09:00	08/23/2018			20180823	09:00:00	20180827
N6247016D9000	0008		CHERRY_POINT_MCAS	Matrix Spike Dup	NONS	SVOA	537	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	08/23/2018 09:00	08/23/2018			20180823	09:00:00	20180827

Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	Percent_Lipid	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	GC_Column_Type	Analysis_Result_Type	Result_Narrative	QC_Control_Limit_Code	QC_Accuracy_Upper	QC_Accuracy_Lower	Control_Limit_Date	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch
17:09:00	1802614-01	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.00	NG_L	U		PR	TRG									5.1	3.03	5.00	9.98	1802614	S8H0093
17:09:00	1802614-01	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.00	NG_L	U		PR	TRG									5.1	3.03	5.00	9.98	1802614	S8H0093
17:09:00	1802614-01	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.00	NG_L	U		PR	TRG									5.1	3.03	5.00	9.98	1802614	S8H0093
17:09:00	1802614-01	1	-999			13C2-PFHxA	13C2-PFHxA		108	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
17:09:00	1802614-01	1	-999			13C2-PFDA	13C2-PFDA		92.8	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
14:59:00	1802614-02	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.00	NG_L	U		PR	TRG									5.1	3.04	5.00	10.0	1802614	S8H0093
14:59:00	1802614-02	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.00	NG_L	U		PR	TRG									5.1	3.04	5.00	10.0	1802614	S8H0093
14:59:00	1802614-02	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.00	NG_L	U		PR	TRG									5.1	3.04	5.00	10.0	1802614	S8H0093
14:59:00	1802614-02	1	-999			13C2-PFHxA	13C2-PFHxA		120	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
14:59:00	1802614-02	1	-999			13C2-PFDA	13C2-PFDA		97.4	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
15:12:00	1802614-03	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.06	NG_L	U		PR	TRG									5.1	3.07	5.06	10.1	1802614	S8H0093
15:12:00	1802614-03	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.06	NG_L	U		PR	TRG									5.1	3.07	5.06	10.1	1802614	S8H0093
15:12:00	1802614-03	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.06	NG_L	U		PR	TRG									5.1	3.07	5.06	10.1	1802614	S8H0093
15:12:00	1802614-03	1	-999			13C2-PFHxA	13C2-PFHxA		109	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
15:12:00	1802614-03	1	-999			13C2-PFDA	13C2-PFDA		92.9	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
15:25:00	1802614-04	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.90	NG_L	U		PR	TRG									5.1	2.98	4.90	9.80	1802614	S8H0093
15:25:00	1802614-04	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		4.90	NG_L	U		PR	TRG									5.1	2.98	4.90	9.80	1802614	S8H0093
15:25:00	1802614-04	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		4.90	NG_L	U		PR	TRG									5.1	2.98	4.90	9.80	1802614	S8H0093
15:25:00	1802614-04	1	-999			13C2-PFHxA	13C2-PFHxA		113	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
15:25:00	1802614-04	1	-999			13C2-PFDA	13C2-PFDA		105	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
15:38:00	1802614-05	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.02	NG_L	U		PR	TRG									5.1	3.05	5.02	10.0	1802614	S8H0093
15:38:00	1802614-05	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.02	NG_L	U		PR	TRG									5.1	3.05	5.02	10.0	1802614	S8H0093
15:38:00	1802614-05	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.02	NG_L	U		PR	TRG									5.1	3.05	5.02	10.0	1802614	S8H0093
15:38:00	1802614-05	1	-999			13C2-PFHxA	13C2-PFHxA		116	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
15:38:00	1802614-05	1	-999			13C2-PFDA	13C2-PFDA		99.2	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
16:30:00	1802614-06	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.02	NG_L	U		PR	TRG									5.1	3.06	5.02	10.1	1802614	S8H0093
16:30:00	1802614-06	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.02	NG_L	U		PR	TRG									5.1	3.06	5.02	10.1	1802614	S8H0093
16:30:00	1802614-06	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.02	NG_L	U		PR	TRG									5.1	3.06	5.02	10.1	1802614	S8H0093
16:30:00	1802614-06	1	-999			13C2-PFHxA	13C2-PFHxA		113	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
16:30:00	1802614-06	1	-999			13C2-PFDA	13C2-PFDA		96.5	PCT_REC			PR			SLSA	130	70					5.1				1802614	S8H0093
10:17:00	B8H0182-BLK1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		5.00	NG_L	U		PR	TRG									5.1	3.04	5.00	10.0	1802614	S8H0093
10:17:00	B8H0182-BLK1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.00	NG_L	U		PR	TRG									5.1	3.04	5.00	10.0	1802614	S8H0093
10:17:00	B8H0182-BLK1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		5.00	NG_L	U		PR	TRG									5.1	3.04	5.00	10.0	1802614	S8H0093
10:17:00	B8H0182-BLK1	1	-999			13C2-PFHxA	13C2-PFHxA		111	PCT_REC			PR	SUR		SLSA	130	70					5.1				1802614	S8H0093
10:17:00	B8H0182-BLK1	1	-999			13C2-PFDA	13C2-PFDA		97.3	PCT_REC			PR	SUR		SLSA	130	70					5.1				1802614	S8H0093
10:30:00	B8H0182-BS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		17.7	NG_L			PR	TRG		LSA	150	50					5.1	3.04	5.00	10.0	1802614	S8H0093
10:30:00	B8H0182-BS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		18.3	NG_L			PR	TRG		LSA	150	50					5.1	3.04	5.00	10.0	1802614	S8H0093
10:30:00	B8H0182-BS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		17.1	NG_L			PR	TRG		LSA	150	50					5.1	3.04	5.00	10.0	1802614	S8H0093
10:30:00	B8H0182-BS1	1	-999			13C2-PFHxA	13C2-PFHxA		114	PCT_REC			PR	SUR		LSA	130	70					5.1				1802614	S8H0093
10:30:00	B8H0182-BS1	1	-999			13C2-PFDA	13C2-PFDA		99.3	PCT_REC			PR	SUR		LSA	130	70					5.1				1802614	S8H0093
10:43:00	B8H0182-MS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		16.9	NG_L			PR	TRG		LSA	150	50					5.1	3.05	5.02	10.0	1802614	S8H0093
10:43:00	B8H0182-MS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		20.0	NG_L			PR	TRG		LSA	150	50					5.1	3.05	5.02	10.0	1802614	S8H0093
10:43:00	B8H0182-MS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		18.8	NG_L			PR	TRG		LSA	150	50					5.1	3.05	5.02	10.0	1802614	S8H0093
10:43:00	B8H0182-MS1	1	-999			13C2-PFHxA	13C2-PFHxA		113	PCT_REC			PR	SUR		LSA	130	70					5.1				1802614	S8H0093
10:43:00	B8H0182-MS1	1	-999			13C2-PFDA	13C2-PFDA		99.8	PCT_REC			PR	SUR		LSA	130	70					5.1				1802614	S8H0093
10:56:00	B8H0182-MSD1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		16.5	NG_L			PR	TRG		LSA	150	50					5.1	3.02	4.98	9.95	1802614	S8H0093
10:56:00	B8H0182-MSD1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		19.2	NG_L			PR	TRG		LSA	150	50					5.1	3.02	4.98	9.95	1802614	S8H0093
10:56:00	B8H0182-MSD1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		17.3	NG_L			PR	TRG		LSA	150	50					5.1	3.02	4.98	9.95	1802614	S8H0093
10:56:00	B8H0182-MSD1	1	-999			13C2-PFHxA	13C2-PFHxA		109	PCT_REC			PR	SUR		LSA	130	70					5.1				1802614	S8H0093
10:56:00	B8H0182-MSD1	1	-999			13C2-PFDA	13C2-PFDA		100	PCT_REC			PR	SUR		LSA	130	70					5.1				1802614	S8H0093

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
MCOLF ATLANTC, NORTH CAROLINA

Client: CH2M HILL, Inc., Corvallis, Oregon
SDG: 1802614
Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
Site: MCOLF Atlantic, North Carolina
Date: September 19, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	CH-AT-1RW199-0818	1802614-1	Water
1MS	CH-AT-1RW199-0818MS	1802614-1MS	Water
1MSD	CH-AT-1RW199-0818MSD	1802614-1MSD	Water
2	CH-AT-1FB199-0818	1802614-2	Water
3	CH-AT-1RW200-0818	1802614-3	Water
4	CH-AT-1FB200-0818	1802614-4	Water
5	CH-AT-1RW201-0818	1802614-5	Water
6	CH-AT-1FB201-0818	1802614-6	Water

A full data validation was performed on the analytical data for three water samples and three aqueous field blank samples collected on August 20, 2018 by CH2M HILL at the MCOLF Atlantic site in Atlantic, North Carolina. The samples were analyzed under the EPA Method "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".

Specific method references are as follows:

Analysis	*Method References*
PFCs	USEPA Method 537, Rev 1.1

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

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

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

Data Usability Assessment

There were no rejections of data.

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

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

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

Holding Times

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

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent recovery (%R) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
CH-AT-1FB199-0818	None - ND	-	-	-
CH-AT-1FB200-0818	None - ND	-	-	-
CH-AT-1FB201-0818	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.

Laboratory Control Samples

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

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

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

Signed: Nancy Weaver Dated: 9/19/18

Nancy Weaver
Senior Chemist

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

Vista Analytical Laboratory

Sample ID: CH-AT-1RW199-0818 — **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1802614-01	Column:	BEH C18
Project:	CTO-08, MCOLF Atlantic PFAS DW Investigation	Date Collected:	20-Aug-18 16:13	Date Received:	22-Aug-18 10:09		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
PFOA	335-67-1	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
PFOS	1763-23-1	ND	3.03	5.00	9.98		B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
Labeled Standards	**Type**	**% Recovery**		**Limits**		**Qualifiers**	**Batch**	**Extracted**	**Samp Size**	**Analyzed**	**Dilution**
13C2-PFHxA	SURR	108		70 - 130			B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1
13C2-PFDA	SURR	92.8		70 - 130			B8H0182	23-Aug-18	0.250 L	27-Aug-18 17:09	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

nw 9/19/18

Vista Analytical Laboratory

2

Sample ID: CH-AT-1FB199-0818 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1802614-02	Column:	BEH C18
Project:	CTO-08, MCOLF Atlantic PFAS DW Investigation	Date Collected:	20-Aug-18 16:14	Date Received:	22-Aug-18 10:09		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
PFOA	335-67-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
PFOS	1763-23-1	ND	3.04	5.00	10.0		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	120	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1
13C2-PFDA	SURR	97.4	70 - 130		B8H0182	23-Aug-18	0.250 L	27-Aug-18 14:59	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

MW 9/19/18

Vista Analytical Laboratory

Sample ID: CH-AT-1RW200-0818 **EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Drinking Water	Lab Sample:	1802614-03	Column:	BEH C18
Project:	CTO-08, MCOLF Atlantic PFAS DW Investigation	Date Collected:	20-Aug-18 16:35	Date Received:	22-Aug-18 10:09		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
PFOA	335-67-1	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
PFOS	1763-23-1	ND	3.07	5.06	10.1		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	109	70 - 130		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1
13C2-PFDA	SURR	92.9	70 - 130		B8H0182	23-Aug-18	0.247 L	27-Aug-18 15:12	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

NW 9/19/18

Vista Analytical Laboratory

4

Sample ID: CH-AT-1FB200-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:36

Laboratory Data

Lab Sample: 1802614-04
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
PFOA	335-67-1	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
PFOS	1763-23-1	ND	2.98	4.90	9.80		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	113	70 - 130		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1
13C2-PFDA	SURR	105	70 - 130		B8H0182	23-Aug-18	0.255 L	27-Aug-18 15:25	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.
When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

tw 9/19/18

Vista Analytical Laboratory 5

Sample ID: CH-AT-1RW201-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:53

Laboratory Data

Lab Sample: 1802614-05
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
PFOA	335-67-1	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
PFOS	1763-23-1	ND	3.05	5.02	10.0		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	116	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1
13C2-PFDA	SURR	99.2	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 15:38	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

MW 9.19.18

Vista Analytical Laboratory

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Sample ID: CH-AT-1FB201-0818

EPA Method 537

Client Data

Name: CH2M Hill
Project: CTO-08, MCOLF Atlantic PFAS DW Investigation
Matrix: Drinking Water
Date Collected: 20-Aug-18 16:54

Laboratory Data

Lab Sample: 1802614-06
Date Received: 22-Aug-18 10:09
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
PFOA	335-67-1	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
PFOS	1763-23-1	ND	3.06	5.02	10.1		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	113	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1
13C2-PFDA	SURR	96.5	70 - 130		B8H0182	23-Aug-18	0.249 L	27-Aug-18 16:30	1

DL - Detection Limit
LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

MW 9/19/18

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Legend

- Proposed Sample Location
- Public Water Supply Well
- Direction of Groundwater Flow
- MCOLF Atlantic - 1-mile zone
- Base Boundary
- Site Boundary (suspected source)
- Parcels

N

0 0.2 0.4 Miles

1 inch = 0.4 mile

Imagery: Esri, 2016

Figure 3
Proposed Sampling Locations
Marine Corps Outlying Landing Field Atlantic
Atlantic Beach, North Carolina