



**Groundwater Sample Results,
Level 4 Laboratory Report,
and the Sample Location Report, SDG 217120751**

*Naval Surface Warfare Center Louisville
Louisville, Kentucky*

July 2019

N00197_001433
NSWC LOUISVILLE, KY
SSIC 5000-33c

LABORATORY DATA PACKAGE, 217120751, NSWC LOUISVILLE KY
12/27/2017
GCAL, INC.

Approved for public release: distribution unlimited.

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 12/27/2017

GCAL Report 217120751



Project PFAS NOS Louisville

<i>Deliver To</i>	<i>Additional Recipients</i>
Tina Cantwell EnSafe Inc 5724 Summer Trees Dr Memphis, TN 38134 901-937-4315	David Doyle, Ensafe



Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
NO	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	Organics - The result is estimated because it exceeded the instrument calibration range
E	Metals - % difference for the serial dilution is > 10%
L	Reporting Limits adjusted to meet risk-based limit.
P	RPD between primary and confirmation result is greater than 40
DL	Diluted analysis – when appended to Client Sample ID

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Migues/Dir of Data De

Authorized Signature
GCAL Report 217120751

Certifications

Certification	Certification Number
DOD ELAP	L14-243
Alabama	01955
Arkansas	12-060-0
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
USDA Soil Permit	P330-10-00117

Case Narrative

Client: Resolution Consultants **Report:** 217120751

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

LC MASS SPECTROMETRY

In the EPA 537 analysis, the recoveries for the extracted internal standards, d3-NMeFOSAA and d5-NEtFOSAA are above the upper control limit for samples 21712075101 (I-NEC-MW43-P-17), 21712075102 (I-NEC-MW43-P-17 MS), and 21712075103 (I-NEC-MW43-P-17 MSD). The recoveries are confirmed since this is a parent sample and client assigned MS/MSD. This is attributed to the sample matrix.

In the EPA 537 analysis, the recoveries for the extracted internal standards, d3-NMeFOSAA and d5-NEtFOSAA are above the upper control limit for sample 21712075106 (I-NE-MW44-P-17). The target analytes associated with these EIS were not detected in this sample.

MISCELLANEOUS

This report was completed in accordance with DOD QSM 5.1 as specified in the contract.

Q Flag Summary

NO Q FLAGS FOR THIS WORKORDER

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21712075101	I-NEC-MW43-P-17	Water	12/04/2017 12:10	12/07/2017 10:10
21712075102	I-NEC-MW43-P-17 MS	Water	12/04/2017 12:10	12/07/2017 10:10
21712075103	I-NEC-MW43-P-17 MSD	Water	12/04/2017 12:10	12/07/2017 10:10
21712075104	MW-T40-P-17	Water	12/04/2017 14:50	12/07/2017 10:10
21712075105	I-NEC-MW41-P-17	Water	12/05/2017 11:30	12/07/2017 10:10
21712075106	I-NE-MW44-P-17	Water	12/05/2017 12:40	12/07/2017 10:10
21712075107	I-NEC-MW34-P-17	Water	12/04/2017 16:28	12/07/2017 10:10
21712075108	I-NEC-MW42-P-17	Water	12/04/2017 13:44	12/07/2017 10:10
21712075109	EB120417	Water	12/04/2017 13:15	12/07/2017 10:10
21712075110	EB120517	Water	12/05/2017 10:10	12/07/2017 10:10
21712075111	FB120417	Water	12/04/2017 13:20	12/07/2017 10:10
21712075112	FB120517	Water	12/05/2017 10:05	12/07/2017 10:10
21712075113	Dup01	Water	12/04/2017 14:50	12/07/2017 10:10

Test Summary

GCAL ID	Client ID	Matrix	Procedure
21712075101	I-NEC-MW43-P-17	W	EPA 537
21712075101	I-NEC-MW43-P-17	W	EPA 537 Prep
21712075102	I-NEC-MW43-P-17 MS	W	EPA 537
21712075102	I-NEC-MW43-P-17 MS	W	EPA 537 Prep
21712075103	I-NEC-MW43-P-17 MSD	W	EPA 537
21712075103	I-NEC-MW43-P-17 MSD	W	EPA 537 Prep
21712075104	MW-T40-P-17	W	EPA 537
21712075104	MW-T40-P-17	W	EPA 537 Prep
21712075105	I-NEC-MW41-P-17	W	EPA 537
21712075105	I-NEC-MW41-P-17	W	EPA 537 Prep
21712075106	I-NE-MW44-P-17	W	EPA 537
21712075106	I-NE-MW44-P-17	W	EPA 537 Prep
21712075107	I-NEC-MW34-P-17	W	EPA 537
21712075107	I-NEC-MW34-P-17	W	EPA 537 Prep
21712075108	I-NEC-MW42-P-17	W	EPA 537
21712075108	I-NEC-MW42-P-17	W	EPA 537 Prep
21712075109	EB120417	W	EPA 537
21712075109	EB120417	W	EPA 537 Prep
21712075110	EB120517	W	EPA 537
21712075110	EB120517	W	EPA 537 Prep
21712075111	FB120417	W	EPA 537
21712075111	FB120417	W	EPA 537 Prep
21712075112	FB120517	W	EPA 537
21712075112	FB120517	W	EPA 537 Prep
21712075113	Dup01	W	EPA 537
21712075113	Dup01	W	EPA 537 Prep

Manual Integrations

Manual Integrations for HPLC and IC (if performed) are documented in the raw data.
No other manual integrations were performed by GCAL.

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Form 1B

Results

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>I-NEC-MW43-P-17</u>
Collect Date:	<u>12/04/17</u> Time: <u>1210</u>	GCAL Sample ID:	<u>21712075101</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>500</u> mL	Lab File ID:	<u>2171218_24.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1509</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	13.7		5.38	8.00	10.0
2355-31-9	NMeFOSAA	8.00	U	4.60	8.00	10.0
375-73-5	Perfluorobutanesulfonic acid	13.6		1.47	4.00	10.0
335-76-2	Perfluorodecanoic acid	2.06	J	1.65	4.00	10.0
307-55-1	Perfluorododecanoic acid	4.00	U	2.45	4.00	10.0
375-85-9	Perfluoroheptanoic acid	2.94	J	1.85	4.00	10.0
355-46-4	Perfluorohexanesulfonic acid	23.3		1.64	4.00	10.0
307-24-4	Perfluorohexanoic acid	11.2		1.94	4.00	10.0
375-95-1	Perfluorononanoic acid	2.24	J	1.68	4.00	10.0
1763-23-1	Perfluorooctane Sulfonate	26.9		1.70	4.00	10.0
335-67-1	Perfluorooctanoic acid	5.15	J	1.80	4.00	10.0
376-06-7	Perfluorotetradecanoic acid	4.00	U	2.76	4.00	10.0
72629-94-8	Perfluorotridecanoic acid	4.00	U	2.56	4.00	10.0
2058-94-8	Perfluoroundecanoic acid	4.00	U	1.86	4.00	10.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>I-NEC-MW43-P-17 MS</u>
Collect Date:	<u>12/04/17</u> Time: <u>1210</u>	GCAL Sample ID:	<u>21712075102</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>530</u> mL	Lab File ID:	<u>2171218_25.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1519</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	86.5		5.08	7.55	9.43
2355-31-9	NMeFOSAA	106		4.34	7.55	9.43
375-73-5	Perfluorobutanesulfonic acid	101		1.39	3.77	9.43
335-76-2	Perfluorodecanoic acid	94.9		1.56	3.77	9.43
307-55-1	Perfluorododecanoic acid	94.7		2.31	3.77	9.43
375-85-9	Perfluoroheptanoic acid	99.8		1.75	3.77	9.43
355-46-4	Perfluorohexanesulfonic acid	111		1.55	3.77	9.43
307-24-4	Perfluorohexanoic acid	111		1.83	3.77	9.43
375-95-1	Perfluorononanoic acid	95.1		1.58	3.77	9.43
1763-23-1	Perfluorooctane Sulfonate	115		1.60	3.77	9.43
335-67-1	Perfluorooctanoic acid	105		1.70	3.77	9.43
376-06-7	Perfluorotetradecanoic acid	99.8		2.60	3.77	9.43
72629-94-8	Perfluorotridecanoic acid	99.8		2.42	3.77	9.43
2058-94-8	Perfluoroundecanoic acid	111		1.75	3.77	9.43

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>I-NEC-MW43-P-17 MSD</u>
Collect Date:	<u>12/04/17</u> Time: <u>1210</u>	GCAL Sample ID:	<u>21712075103</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>520</u> mL	Lab File ID:	<u>2171218_26.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1528</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	104		5.17	7.69	9.62
2355-31-9	NMeFOSAA	101		4.42	7.69	9.62
375-73-5	Perfluorobutanesulfonic acid	87.5		1.41	3.85	9.62
335-76-2	Perfluorodecanoic acid	96.3		1.59	3.85	9.62
307-55-1	Perfluorododecanoic acid	96.3		2.36	3.85	9.62
375-85-9	Perfluoroheptanoic acid	102		1.78	3.85	9.62
355-46-4	Perfluorohexanesulfonic acid	116		1.58	3.85	9.62
307-24-4	Perfluorohexanoic acid	112		1.87	3.85	9.62
375-95-1	Perfluorononanoic acid	100		1.62	3.85	9.62
1763-23-1	Perfluorooctane Sulfonate	114		1.63	3.85	9.62
335-67-1	Perfluorooctanoic acid	105		1.73	3.85	9.62
376-06-7	Perfluorotetradecanoic acid	101		2.65	3.85	9.62
72629-94-8	Perfluorotridecanoic acid	103		2.46	3.85	9.62
2058-94-8	Perfluoroundecanoic acid	111		1.79	3.85	9.62

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>MW-T40-P-17</u>
Collect Date:	<u>12/04/17</u> Time: <u>1450</u>	GCAL Sample ID:	<u>21712075104</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>530</u> mL	Lab File ID:	<u>2171218_27.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1537</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.55	U	5.08	7.55	9.43
2355-31-9	NMeFOSAA	7.55	U	4.34	7.55	9.43
375-73-5	Perfluorobutanesulfonic acid	1.59	J	1.39	3.77	9.43
335-76-2	Perfluorodecanoic acid	3.77	U	1.56	3.77	9.43
307-55-1	Perfluorododecanoic acid	3.77	U	2.31	3.77	9.43
375-85-9	Perfluoroheptanoic acid	3.77	U	1.75	3.77	9.43
355-46-4	Perfluorohexanesulfonic acid	1.68	J	1.55	3.77	9.43
307-24-4	Perfluorohexanoic acid	6.87	J	1.83	3.77	9.43
375-95-1	Perfluorononanoic acid	3.77	U	1.58	3.77	9.43
1763-23-1	Perfluorooctane Sulfonate	3.77	U	1.60	3.77	9.43
335-67-1	Perfluorooctanoic acid	2.60	J	1.70	3.77	9.43
376-06-7	Perfluorotetradecanoic acid	3.77	U	2.60	3.77	9.43
72629-94-8	Perfluorotridecanoic acid	3.77	U	2.42	3.77	9.43
2058-94-8	Perfluoroundecanoic acid	3.77	U	1.75	3.77	9.43

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No: <u>217120751</u>	Client Sample ID: <u>I-NEC-MW41-P-17</u>
Collect Date: <u>12/05/17</u> Time: <u>1130</u>	GCAL Sample ID: <u>21712075105</u>
Matrix: <u>Water</u> % Moisture: <u>NA</u>	Instrument ID: <u>QQQ1</u>
Sample Amt: <u>510</u> mL	Lab File ID: <u>2171218_28.d</u>
Injection Vol.: <u>1.0</u> (µL)	GC Column: _____ ID _____ (mm)
Prep Final Vol.: <u>1000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEG</u>
Prep Date: <u>12/14/17</u>	Analysis Date: <u>12/18/17</u> Time: <u>1547</u>
Prep Batch: <u>625065</u>	Analytical Batch: <u>625406</u>
Prep Method: <u>EPA 537 Prep</u>	Analytical Method: <u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.84	U	5.27	7.84	9.80
2355-31-9	NMeFOSAA	7.84	U	4.51	7.84	9.80
375-73-5	Perfluorobutanesulfonic acid	3.92	U	1.44	3.92	9.80
335-76-2	Perfluorodecanoic acid	3.92	U	1.62	3.92	9.80
307-55-1	Perfluorododecanoic acid	3.92	U	2.40	3.92	9.80
375-85-9	Perfluoroheptanoic acid	3.92	U	1.81	3.92	9.80
355-46-4	Perfluorohexanesulfonic acid	3.92	U	1.61	3.92	9.80
307-24-4	Perfluorohexanoic acid	3.92	U	1.90	3.92	9.80
375-95-1	Perfluorononanoic acid	3.92	U	1.65	3.92	9.80
1763-23-1	Perfluorooctane Sulfonate	3.92	U	1.67	3.92	9.80
335-67-1	Perfluorooctanoic acid	3.92	U	1.76	3.92	9.80
376-06-7	Perfluorotetradecanoic acid	3.92	U	2.71	3.92	9.80
72629-94-8	Perfluorotridecanoic acid	3.92	U	2.51	3.92	9.80
2058-94-8	Perfluoroundecanoic acid	3.92	U	1.82	3.92	9.80

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>I-NE-MW44-P-17</u>
Collect Date:	<u>12/05/17</u> Time: <u>1240</u>	GCAL Sample ID:	<u>21712075106</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>530</u> mL	Lab File ID:	<u>2171218_29.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1556</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.55	U	5.08	7.55	9.43
2355-31-9	NMeFOSAA	7.55	U	4.34	7.55	9.43
375-73-5	Perfluorobutanesulfonic acid	5.07	J	1.39	3.77	9.43
335-76-2	Perfluorodecanoic acid	3.77	U	1.56	3.77	9.43
307-55-1	Perfluorododecanoic acid	3.77	U	2.31	3.77	9.43
375-85-9	Perfluoroheptanoic acid	3.77	U	1.75	3.77	9.43
355-46-4	Perfluorohexanesulfonic acid	10.8		1.55	3.77	9.43
307-24-4	Perfluorohexanoic acid	7.02	J	1.83	3.77	9.43
375-95-1	Perfluorononanoic acid	1.64	J	1.58	3.77	9.43
1763-23-1	Perfluorooctane Sulfonate	26.8		1.60	3.77	9.43
335-67-1	Perfluorooctanoic acid	4.65	J	1.70	3.77	9.43
376-06-7	Perfluorotetradecanoic acid	3.77	U	2.60	3.77	9.43
72629-94-8	Perfluorotridecanoic acid	3.77	U	2.42	3.77	9.43
2058-94-8	Perfluoroundecanoic acid	3.77	U	1.75	3.77	9.43

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>I-NEC-MW34-P-17</u>
Collect Date:	<u>12/04/17</u> Time: <u>1628</u>	GCAL Sample ID:	<u>21712075107</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>510</u> mL	Lab File ID:	<u>2171218_30.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1605</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.84	U	5.27	7.84	9.80
2355-31-9	NMeFOSAA	7.84	U	4.51	7.84	9.80
375-73-5	Perfluorobutanesulfonic acid	2.13	J	1.44	3.92	9.80
335-76-2	Perfluorodecanoic acid	3.92	U	1.62	3.92	9.80
307-55-1	Perfluorododecanoic acid	3.92	U	2.40	3.92	9.80
375-85-9	Perfluoroheptanoic acid	3.92	U	1.81	3.92	9.80
355-46-4	Perfluorohexanesulfonic acid	13.1		1.61	3.92	9.80
307-24-4	Perfluorohexanoic acid	5.03	J	1.90	3.92	9.80
375-95-1	Perfluorononanoic acid	3.92	U	1.65	3.92	9.80
1763-23-1	Perfluorooctane Sulfonate	4.07	J	1.67	3.92	9.80
335-67-1	Perfluorooctanoic acid	3.71	J	1.76	3.92	9.80
376-06-7	Perfluorotetradecanoic acid	3.92	U	2.71	3.92	9.80
72629-94-8	Perfluorotridecanoic acid	3.92	U	2.51	3.92	9.80
2058-94-8	Perfluoroundecanoic acid	3.92	U	1.82	3.92	9.80

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>I-NEC-MW42-P-17</u>
Collect Date:	<u>12/04/17</u> Time: <u>1344</u>	GCAL Sample ID:	<u>21712075108</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>500</u> mL	Lab File ID:	<u>2171219_11.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/19/17</u> Time: <u>1406</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625515</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	8.00	UQ	5.38	8.00	10.0
2355-31-9	NMeFOSAA	8.00	UQ	4.60	8.00	10.0
375-73-5	Perfluorobutanesulfonic acid	4.00	UQ	1.47	4.00	10.0
335-76-2	Perfluorodecanoic acid	4.00	UQ	1.65	4.00	10.0
307-55-1	Perfluorododecanoic acid	4.00	UQ	2.45	4.00	10.0
375-85-9	Perfluoroheptanoic acid	4.00	UQ	1.85	4.00	10.0
355-46-4	Perfluorohexanesulfonic acid	5.47	JQ	1.64	4.00	10.0
307-24-4	Perfluorohexanoic acid	6.64	JQ	1.94	4.00	10.0
375-95-1	Perfluorononanoic acid	4.00	UQ	1.68	4.00	10.0
1763-23-1	Perfluorooctane Sulfonate	4.00	UQ	1.70	4.00	10.0
335-67-1	Perfluorooctanoic acid	4.00	UQ	1.80	4.00	10.0
376-06-7	Perfluorotetradecanoic acid	4.00	UQ	2.76	4.00	10.0
72629-94-8	Perfluorotridecanoic acid	4.00	UQ	2.56	4.00	10.0
2058-94-8	Perfluoroundecanoic acid	4.00	UQ	1.86	4.00	10.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>EB120417</u>
Collect Date:	<u>12/04/17</u> Time: <u>1315</u>	GCAL Sample ID:	<u>21712075109</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>540</u> mL	Lab File ID:	<u>2171218_19.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1423</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.41	U	4.98	7.41	9.26
2355-31-9	NMeFOSAA	7.41	U	4.26	7.41	9.26
375-73-5	Perfluorobutanesulfonic acid	3.70	U	1.36	3.70	9.26
335-76-2	Perfluorodecanoic acid	3.70	U	1.53	3.70	9.26
307-55-1	Perfluorododecanoic acid	3.70	U	2.27	3.70	9.26
375-85-9	Perfluoroheptanoic acid	3.70	U	1.71	3.70	9.26
355-46-4	Perfluorohexanesulfonic acid	3.70	U	1.52	3.70	9.26
307-24-4	Perfluorohexanoic acid	3.70	U	1.80	3.70	9.26
375-95-1	Perfluorononanoic acid	3.70	U	1.56	3.70	9.26
1763-23-1	Perfluorooctane Sulfonate	3.70	U	1.57	3.70	9.26
335-67-1	Perfluorooctanoic acid	3.70	U	1.67	3.70	9.26
376-06-7	Perfluorotetradecanoic acid	3.70	U	2.56	3.70	9.26
72629-94-8	Perfluorotridecanoic acid	3.70	U	2.37	3.70	9.26
2058-94-8	Perfluoroundecanoic acid	3.70	U	1.72	3.70	9.26

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>EB120517</u>
Collect Date:	<u>12/05/17</u> Time: <u>1010</u>	GCAL Sample ID:	<u>21712075110</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>540</u> mL	Lab File ID:	<u>2171218_20.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	_____ ID _____ (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1432</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.41	U	4.98	7.41	9.26
2355-31-9	NMeFOSAA	7.41	U	4.26	7.41	9.26
375-73-5	Perfluorobutanesulfonic acid	3.70	U	1.36	3.70	9.26
335-76-2	Perfluorodecanoic acid	3.70	U	1.53	3.70	9.26
307-55-1	Perfluorododecanoic acid	3.70	U	2.27	3.70	9.26
375-85-9	Perfluoroheptanoic acid	3.70	U	1.71	3.70	9.26
355-46-4	Perfluorohexanesulfonic acid	3.70	U	1.52	3.70	9.26
307-24-4	Perfluorohexanoic acid	3.70	U	1.80	3.70	9.26
375-95-1	Perfluorononanoic acid	3.70	U	1.56	3.70	9.26
1763-23-1	Perfluorooctane Sulfonate	3.70	U	1.57	3.70	9.26
335-67-1	Perfluorooctanoic acid	3.70	U	1.67	3.70	9.26
376-06-7	Perfluorotetradecanoic acid	3.70	U	2.56	3.70	9.26
72629-94-8	Perfluorotridecanoic acid	3.70	U	2.37	3.70	9.26
2058-94-8	Perfluoroundecanoic acid	3.70	U	1.72	3.70	9.26

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>FB120417</u>
Collect Date:	<u>12/04/17</u> Time: <u>1320</u>	GCAL Sample ID:	<u>21712075111</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>540</u> mL	Lab File ID:	<u>2171218_21.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	_____ ID _____ (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1441</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.41	U	4.98	7.41	9.26
2355-31-9	NMeFOSAA	7.41	U	4.26	7.41	9.26
375-73-5	Perfluorobutanesulfonic acid	3.70	U	1.36	3.70	9.26
335-76-2	Perfluorodecanoic acid	3.70	U	1.53	3.70	9.26
307-55-1	Perfluorododecanoic acid	3.70	U	2.27	3.70	9.26
375-85-9	Perfluoroheptanoic acid	3.70	U	1.71	3.70	9.26
355-46-4	Perfluorohexanesulfonic acid	3.70	U	1.52	3.70	9.26
307-24-4	Perfluorohexanoic acid	3.70	U	1.80	3.70	9.26
375-95-1	Perfluorononanoic acid	3.70	U	1.56	3.70	9.26
1763-23-1	Perfluorooctane Sulfonate	3.70	U	1.57	3.70	9.26
335-67-1	Perfluorooctanoic acid	3.70	U	1.67	3.70	9.26
376-06-7	Perfluorotetradecanoic acid	3.70	U	2.56	3.70	9.26
72629-94-8	Perfluorotridecanoic acid	3.70	U	2.37	3.70	9.26
2058-94-8	Perfluoroundecanoic acid	3.70	U	1.72	3.70	9.26

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>FB120517</u>
Collect Date:	<u>12/05/17</u> Time: <u>1005</u>	GCAL Sample ID:	<u>21712075112</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>550</u> mL	Lab File ID:	<u>2171218_22.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	_____ ID _____ (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1451</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.27	U	4.89	7.27	9.09
2355-31-9	NMeFOSAA	7.27	U	4.18	7.27	9.09
375-73-5	Perfluorobutanesulfonic acid	3.64	U	1.34	3.64	9.09
335-76-2	Perfluorodecanoic acid	3.64	U	1.50	3.64	9.09
307-55-1	Perfluorododecanoic acid	3.64	U	2.23	3.64	9.09
375-85-9	Perfluoroheptanoic acid	3.64	U	1.68	3.64	9.09
355-46-4	Perfluorohexanesulfonic acid	3.64	U	1.49	3.64	9.09
307-24-4	Perfluorohexanoic acid	3.64	U	1.76	3.64	9.09
375-95-1	Perfluorononanoic acid	3.64	U	1.53	3.64	9.09
1763-23-1	Perfluorooctane Sulfonate	3.64	U	1.55	3.64	9.09
335-67-1	Perfluorooctanoic acid	3.64	U	1.64	3.64	9.09
376-06-7	Perfluorotetradecanoic acid	3.64	U	2.51	3.64	9.09
72629-94-8	Perfluorotridecanoic acid	3.64	U	2.33	3.64	9.09
2058-94-8	Perfluoroundecanoic acid	3.64	U	1.69	3.64	9.09

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>Dup01</u>
Collect Date:	<u>12/04/17</u> Time: <u>1450</u>	GCAL Sample ID:	<u>21712075113</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>540</u> mL	Lab File ID:	<u>2171218_32.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1624</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	7.41	U	4.98	7.41	9.26
2355-31-9	NMeFOSAA	7.41	U	4.26	7.41	9.26
375-73-5	Perfluorobutanesulfonic acid	3.70	U	1.36	3.70	9.26
335-76-2	Perfluorodecanoic acid	3.70	U	1.53	3.70	9.26
307-55-1	Perfluorododecanoic acid	3.70	U	2.27	3.70	9.26
375-85-9	Perfluoroheptanoic acid	3.70	U	1.71	3.70	9.26
355-46-4	Perfluorohexanesulfonic acid	3.70	U	1.52	3.70	9.26
307-24-4	Perfluorohexanoic acid	6.76	J	1.80	3.70	9.26
375-95-1	Perfluorononanoic acid	3.70	U	1.56	3.70	9.26
1763-23-1	Perfluorooctane Sulfonate	3.70	U	1.57	3.70	9.26
335-67-1	Perfluorooctanoic acid	2.18	J	1.67	3.70	9.26
376-06-7	Perfluorotetradecanoic acid	3.70	U	2.56	3.70	9.26
72629-94-8	Perfluorotridecanoic acid	3.70	U	2.37	3.70	9.26
2058-94-8	Perfluoroundecanoic acid	3.70	U	1.72	3.70	9.26

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Report No:	<u>217120751</u>	Client Sample ID:	<u>MB1755052</u>
Collect Date:	<u>NA</u> Time: <u>NA</u>	GCAL Sample ID:	<u>1755052</u>
Matrix:	<u>Water</u> % Moisture: <u>NA</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>500</u> mL	Lab File ID:	<u>2171218_09.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	<u> </u> ID <u> </u> (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1249</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

CONCENTRATION UNITS: ng/L

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
2991-50-6	NEtFOSAA	8.00	U	5.38	8.00	10.0
2355-31-9	NMeFOSAA	8.00	U	4.60	8.00	10.0
375-73-5	Perfluorobutanesulfonic acid	4.00	U	1.47	4.00	10.0
335-76-2	Perfluorodecanoic acid	4.00	U	1.65	4.00	10.0
307-55-1	Perfluorododecanoic acid	4.00	U	2.45	4.00	10.0
375-85-9	Perfluoroheptanoic acid	4.00	U	1.85	4.00	10.0
355-46-4	Perfluorohexanesulfonic acid	4.00	U	1.64	4.00	10.0
307-24-4	Perfluorohexanoic acid	4.00	U	1.94	4.00	10.0
375-95-1	Perfluorononanoic acid	4.00	U	1.68	4.00	10.0
1763-23-1	Perfluorooctane Sulfonate	4.00	U	1.70	4.00	10.0
335-67-1	Perfluorooctanoic acid	4.00	U	1.80	4.00	10.0
376-06-7	Perfluorotetradecanoic acid	4.00	U	2.76	4.00	10.0
72629-94-8	Perfluorotridecanoic acid	4.00	U	2.56	4.00	10.0
2058-94-8	Perfluoroundecanoic acid	4.00	U	1.86	4.00	10.0

Form 3C

Spikes

Water

3C
WATER SEMIVOLATILE MS/MSD RECOVERY

Report No: 217120751
 Prep Method: EPA 537 Prep
 Analytical Method: EPA 537

Parent Sample ID: I-NEC-MW43-P-17
 Prep Batch: 625065
 Analytical Batch: 625406

GCAL QC ID: 21712075102

ANALYTE	UNITS	SPIKE ADDED	SAMPLE RESULT	MS RESULT	MS % REC	#	QC LIMITS
NEtFOSAA	ng/L	94.3	13.7	86.5	77		70 - 130
NMeFOSAA	ng/L	94.3	.47	106	112		70 - 130
Perfluorobutanesulfonic acid	ng/L	83.5	13.6	101	105		70 - 130
Perfluorodecanoic acid	ng/L	94.3	2.06	94.9	98		70 - 130
Perfluorododecanoic acid	ng/L	94.3	.694	94.7	100		70 - 130
Perfluoroheptanoic acid	ng/L	94.3	2.94	99.8	103		70 - 130
Perfluorohexanesulfonic acid	ng/L	86	23.3	111	102		70 - 130
Perfluorohexanoic acid	ng/L	94.3	11.2	111	105		70 - 130
Perfluorononanoic acid	ng/L	94.3	2.24	95.1	98		70 - 130
Perfluorooctane Sulfonate	ng/L	87.3	26.9	115	101		70 - 130
Perfluorooctanoic acid	ng/L	94.3	5.15	105	106		70 - 130
Perfluorotetradecanoic acid	ng/L	94.3	.795	99.8	105		70 - 130
Perfluorotridecanoic acid	ng/L	94.3	.637	99.8	105		70 - 130
Perfluoroundecanoic acid	ng/L	94.3	1.12	111	116		70 - 130

GCAL QC ID: 21712075103

ANALYTE	UNITS	SPIKE ADDED	MSD RESULT	MSD % REC	#	% RPD	#	QC LIMITS REC	RPD
NEtFOSAA	ng/L	96.2	104	94		19		70 - 130	0 - 30
NMeFOSAA	ng/L	96.2	101	104		5		70 - 130	0 - 30
Perfluorobutanesulfonic acid	ng/L	85.1	87.5	87		15		70 - 130	0 - 30
Perfluorodecanoic acid	ng/L	96.2	96.3	98		1		70 - 130	0 - 30
Perfluorododecanoic acid	ng/L	96.2	96.3	99		2		70 - 130	0 - 30
Perfluoroheptanoic acid	ng/L	96.2	102	103		2		70 - 130	0 - 30
Perfluorohexanesulfonic acid	ng/L	87.7	116	105		4		70 - 130	0 - 30
Perfluorohexanoic acid	ng/L	96.2	112	105		1		70 - 130	0 - 30
Perfluorononanoic acid	ng/L	96.2	100	102		5		70 - 130	0 - 30
Perfluorooctane Sulfonate	ng/L	89	114	97		1		70 - 130	0 - 30
Perfluorooctanoic acid	ng/L	96.2	105	104		.04		70 - 130	0 - 30
Perfluorotetradecanoic acid	ng/L	96.2	101	104		.7		70 - 130	0 - 30
Perfluorotridecanoic acid	ng/L	96.2	103	107		3		70 - 130	0 - 30
Perfluoroundecanoic acid	ng/L	96.2	111	114		.5		70 - 130	0 - 30

RPD : 0 out of 14 outside limits

Column to be used to flag recovery and RPD values with an asterisk

Spike Recovery: 0 out of 28 outside limits

* Values outside of QC limits

FORM III SV-1

WATER SEMIVOLATILE LCS/LCSD RECOVERY

Report No: 217120751Prep Method: EPA 537 PrepAnalytical Method: EPA 537Prep Batch: 625065Analytical Batch: 625406

GCAL QC ID: 1755053

ANALYTE	UNITS	SPIKE ADDED	SAMPLE RESULT	LCS RESULT	LCS % REC	#	QC LIMITS
NEtFOSAA	ng/L	100	0	101	101		70 - 130
NMeFOSAA	ng/L	100	0	107	107		70 - 130
Perfluorobutanesulfonic acid	ng/L	88.5	0	85.9	97		70 - 130
Perfluorodecanoic acid	ng/L	100	0	101	101		70 - 130
Perfluorododecanoic acid	ng/L	100	0	104	104		70 - 130
Perfluoroheptanoic acid	ng/L	100	0	101	101		70 - 130
Perfluorohexanesulfonic acid	ng/L	91.2	0	91.3	100		70 - 130
Perfluorohexanoic acid	ng/L	100	0	99.9	100		70 - 130
Perfluorononanoic acid	ng/L	100	0	103	103		70 - 130
Perfluorooctane Sulfonate	ng/L	92.6	0	96.9	105		70 - 130
Perfluorooctanoic acid	ng/L	100	0	101	101		70 - 130
Perfluorotetradecanoic acid	ng/L	100	0	102	102		70 - 130
Perfluorotridecanoic acid	ng/L	100	0	105	105		70 - 130
Perfluoroundecanoic acid	ng/L	100	0	112	112		70 - 130

GCAL QC ID: 1755054

ANALYTE	UNITS	SPIKE ADDED	LCSD RESULT	LCSD % REC	#	% RPD	#	QC LIMITS REC	RPD
NEtFOSAA	ng/L	100	97.3	97		4		70 - 130	0 - 30
NMeFOSAA	ng/L	100	115	115		7		70 - 130	0 - 30
Perfluorobutanesulfonic acid	ng/L	88.5	85.5	97		.4		70 - 130	0 - 30
Perfluorodecanoic acid	ng/L	100	96.6	97		4		70 - 130	0 - 30
Perfluorododecanoic acid	ng/L	100	104	104		.03		70 - 130	0 - 30
Perfluoroheptanoic acid	ng/L	100	98.1	98		3		70 - 130	0 - 30
Perfluorohexanesulfonic acid	ng/L	91.2	87	95		5		70 - 130	0 - 30
Perfluorohexanoic acid	ng/L	100	98.6	99		1		70 - 130	0 - 30
Perfluorononanoic acid	ng/L	100	100	100		3		70 - 130	0 - 30
Perfluorooctane Sulfonate	ng/L	92.6	88.4	95		9		70 - 130	0 - 30
Perfluorooctanoic acid	ng/L	100	100	100		1		70 - 130	0 - 30
Perfluorotetradecanoic acid	ng/L	100	101	101		1		70 - 130	0 - 30
Perfluorotridecanoic acid	ng/L	100	104	104		2		70 - 130	0 - 30
Perfluoroundecanoic acid	ng/L	100	113	113		.7		70 - 130	0 - 30

RPD: 0 out of 14 outside limits

Column to be used to flag recovery and RPD values with an asterisk

Spike Recovery: 0 out of 28 outside limits

* Values outside of QC limits

Form 4B

Method Blanks

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Report No:	<u>217120751</u>	Method Blank ID:	<u>1755052</u>
Matrix:	<u>Water</u>	Instrument ID:	<u>QQQ1</u>
Sample Amt:	<u>500</u> mL	Lab File ID:	<u>2171218_09.d</u>
Injection Vol.:	<u>1.0</u> (µL)	GC Column:	_____ ID _____ (mm)
Prep Final Vol.:	<u>1000</u> (µL)	Dilution Factor:	<u>1</u> Analyst: <u>MEG</u>
Prep Date:	<u>12/14/17</u>	Analysis Date:	<u>12/18/17</u> Time: <u>1249</u>
Prep Batch:	<u>625065</u>	Analytical Batch:	<u>625406</u>
Prep Method:	<u>EPA 537 Prep</u>	Analytical Method:	<u>EPA 537</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

<i>CLIENT SAMPLE ID</i>	<i>GCAL SAMPLE ID</i>	<i>LAB FILE ID</i>	<i>DATE ANALYZED</i>	<i>TIME ANALYZED</i>	
1.	LCS1755053	1755053	2171218_10.d	12/18/17	1259
2.	LCSD1755054	1755054	2171218_11.d	12/18/17	1308
3.	EB120417	21712075109	2171218_19.d	12/18/17	1423
4.	EB120517	21712075110	2171218_20.d	12/18/17	1432
5.	FB120417	21712075111	2171218_21.d	12/18/17	1441
6.	FB120517	21712075112	2171218_22.d	12/18/17	1451
7.	I-NEC-MW43-P-17	21712075101	2171218_24.d	12/18/17	1509
8.	I-NEC-MW43-P-17 MS	21712075102	2171218_25.d	12/18/17	1519
9.	I-NEC-MW43-P-17 MSD	21712075103	2171218_26.d	12/18/17	1528
10.	MW-T40-P-17	21712075104	2171218_27.d	12/18/17	1537
11.	I-NEC-MW41-P-17	21712075105	2171218_28.d	12/18/17	1547
12.	I-NE-MW44-P-17	21712075106	2171218_29.d	12/18/17	1556
13.	I-NEC-MW34-P-17	21712075107	2171218_30.d	12/18/17	1605
14.	Dup01	21712075113	2171218_32.d	12/18/17	1624
15.	I-NEC-MW42-P-17	21712075108	2171219_11.d	12/19/17	1406

FORM IV SV

Form 4I

Instrument Blanks

Quantitative Analysis Sample Report

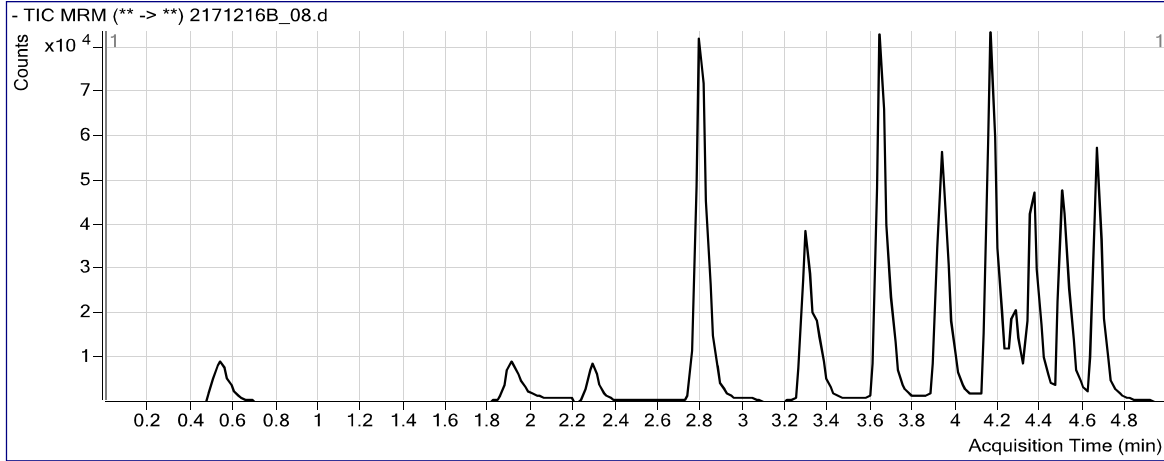
Batch Data Path
Acquisition Time

D:\MassHunter\Data\2171216BCAL\QuantResults\2171219A.batch.bin
#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_08.d **Position** Vial 8 **Samp Name** IBLK **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Sample **Comment** MEG

Sample Chromatogram



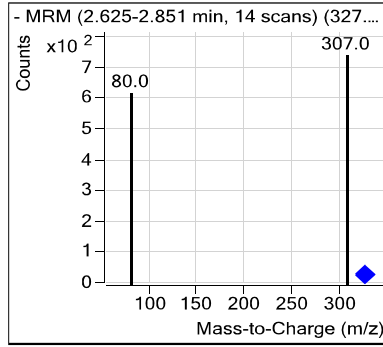
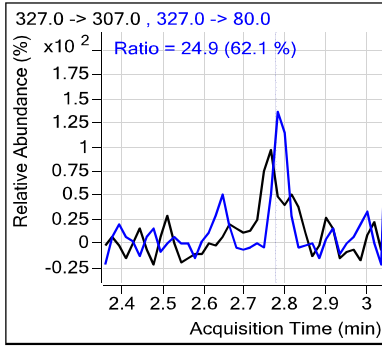
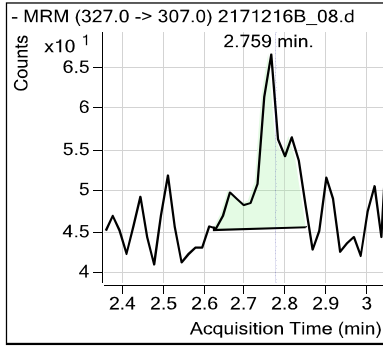
Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	133043		91.2	18.2467			INF
M2PFHxA		2.798	206817		90.9	36.3629			8045
M2PFOA		3.652	144635		92.0	18.4036			6979
M4PFOS		3.951	33008		88.6	17.7117			987
4:2 FTS	M2 4:2 FTS	2.759	102	4992	106.2	0.1338			2
6:2 FTS	M2 6:2 FTS	3.631	251	7283	104.8	0.2676			19
FOSA-I	M8FOSA	4.275	345	59416	108.2	0.1036			7
LPFDS	M6PFDA	4.364	312	141047	110.5	0.1461			6
LPFHpS	M8PFOA	3.680	195	146789	110.4	0.0909			2
LPFNS	M9PFNA	4.199	224	155352	107.5	0.1289			6
LPFPeS	M5PFHxA	2.927	250	106046	107.8	0.1212			1
NETFOSAA	d5-NETFOSAA	4.349	599	10209	108.2	0.6370			7
NMeFOSAA	d3-NMeFOSAA	4.248	348	5928	103.6	0.3854			6
PFBA	MPFBA	0.525	873	48345	105.6	0.3325			16
PFBS	M3PFBS	2.274	189	34647	107.8	0.0901			1
PFDA	M6PFDA	4.169	1528	141047	110.5	0.1975			4
PFDoA	MPFDoA	4.497	1948	156644	107.0	0.2550			15
PFHpA	M4PFHpA	3.302	1536	136510	108.7	0.1989			23
PFHxA	M5PFHxA	2.799	1602	106046	107.8	0.2925			4
PFHxS	M3PFHxS	3.349	273	34566	110.8	0.1486			1
PFNA	M9PFNA	3.935	1516	155352	107.5	0.1778			9
PFOA	M8PFOA	3.654	1929	146789	110.4	0.2274			12
PFOS	M8PFOS	3.952	847	31265	105.8	0.3955			10
PFTeDA	M2PFTeDA	4.662	4192	176628	104.5	0.5042			INF
PFTrDA	M2PFTeDA	4.596	2834	176628	104.5	0.3409			25
PFUdA	M7PFUdA	4.369	2132	147040	109.3	0.3351			12

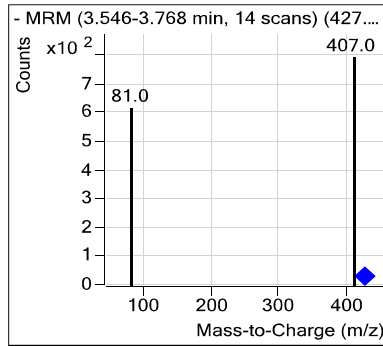
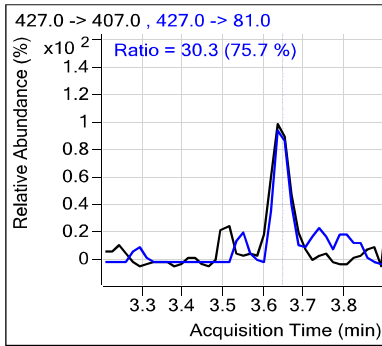
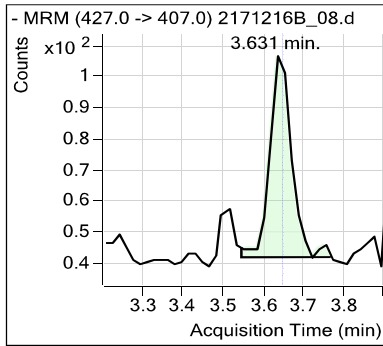
Quantitative Analysis Sample Report

Compound Graphics

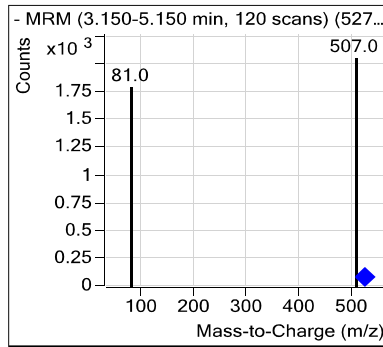
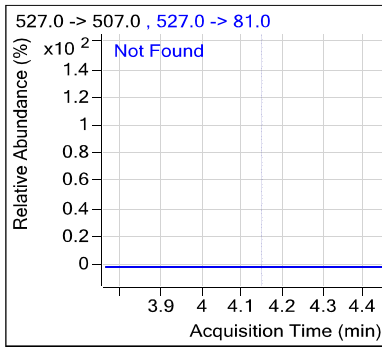
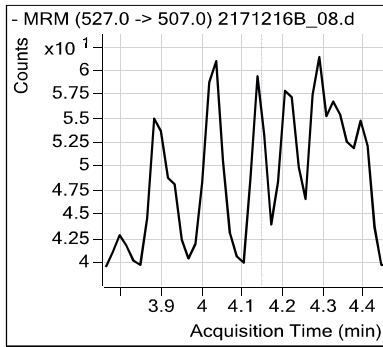
Target Compound 4:2 FTS



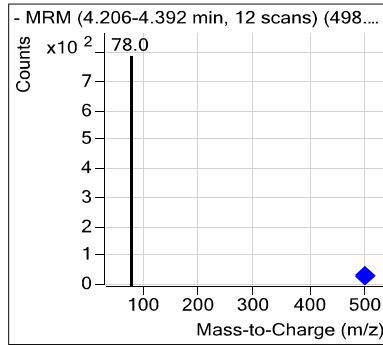
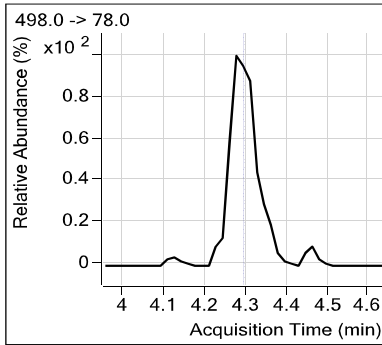
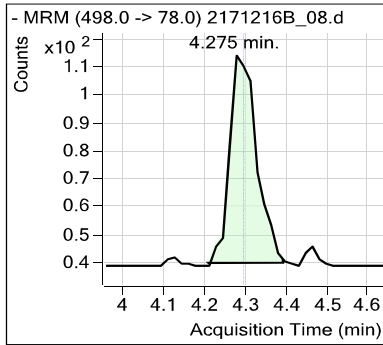
Target Compound 6:2 FTS



Target Compound 8:2 FTS

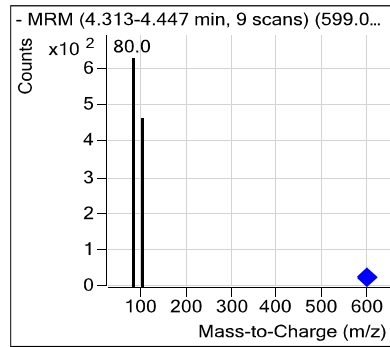
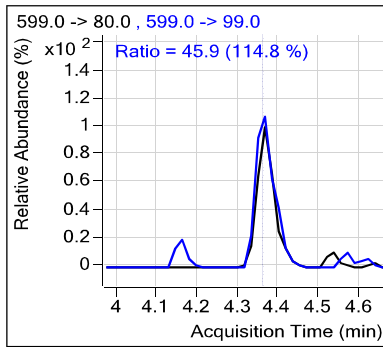
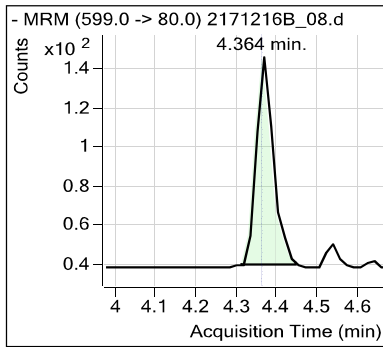


Target Compound FOSA-I



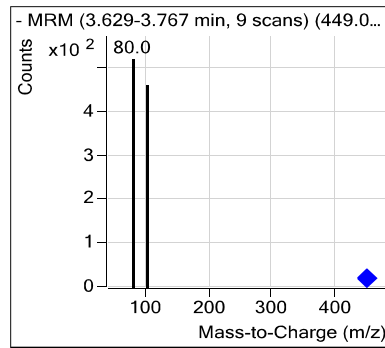
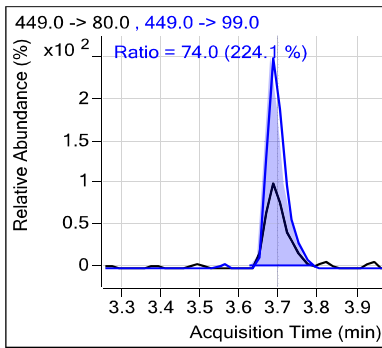
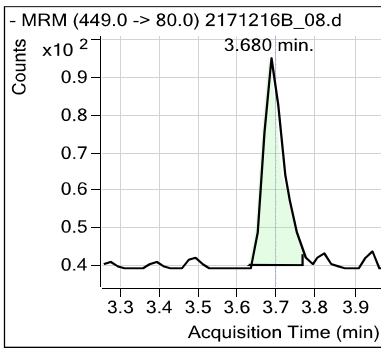
Target Compound LPFDS

Quantitative Analysis Sample Report

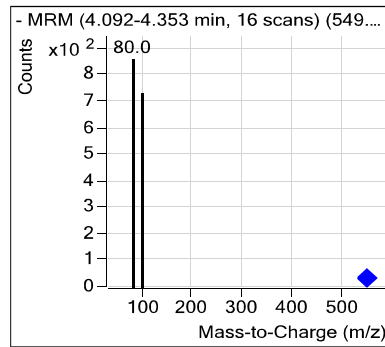
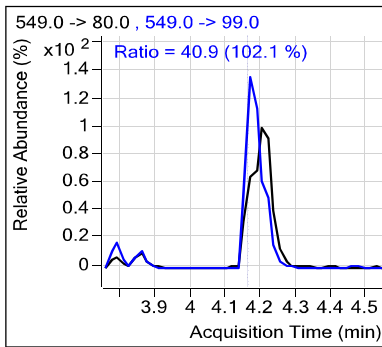
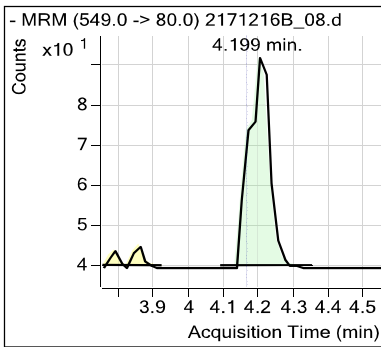


Quantitative Analysis Sample Report

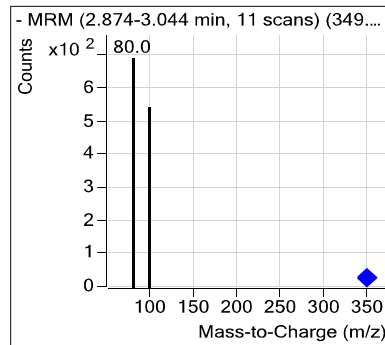
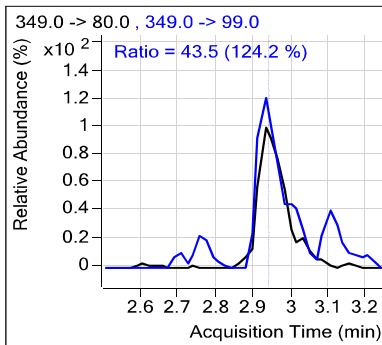
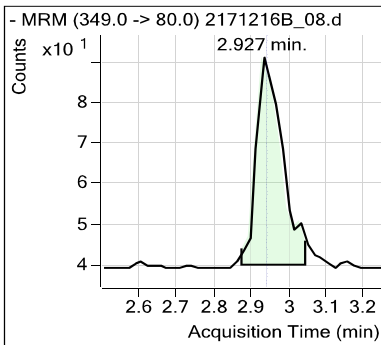
Target Compound LPFHpS



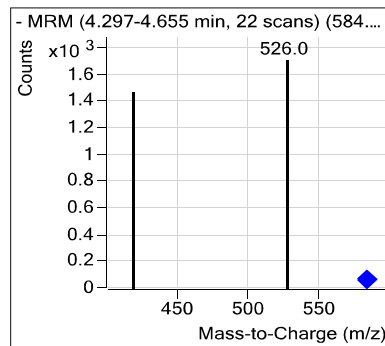
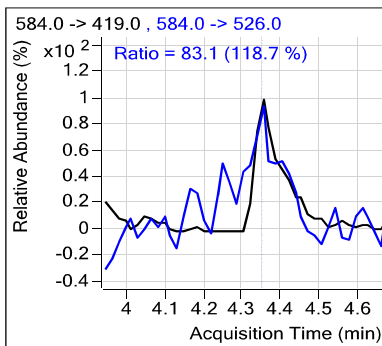
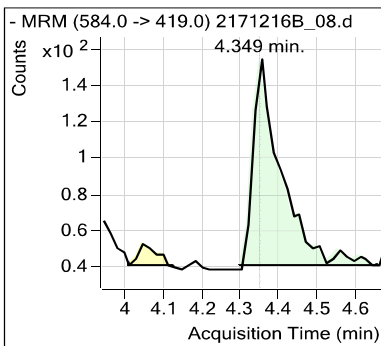
Target Compound LPFNs



Target Compound LPFPeS

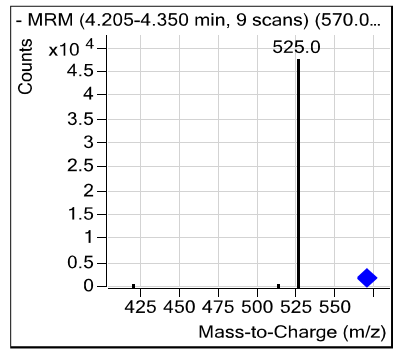
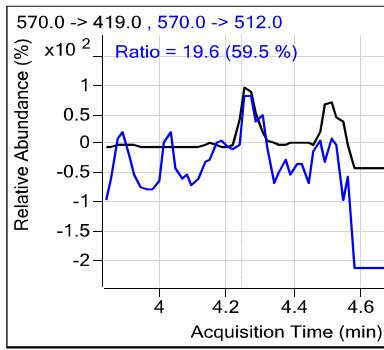
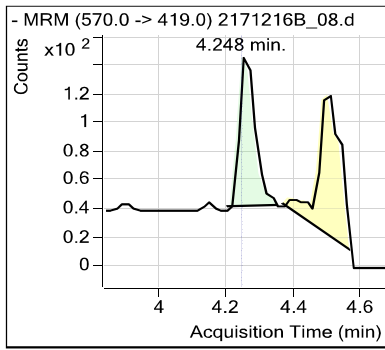


Target Compound NEtFOSAA



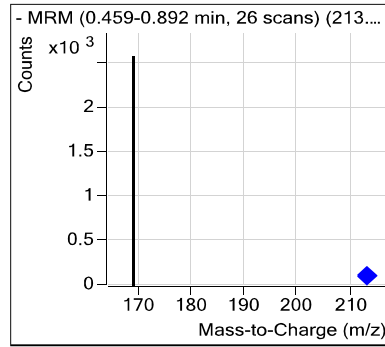
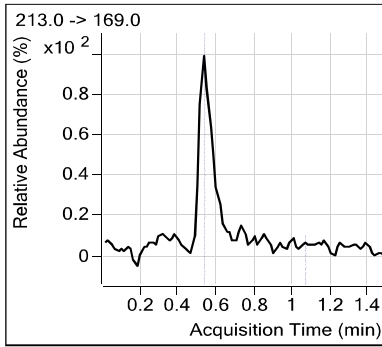
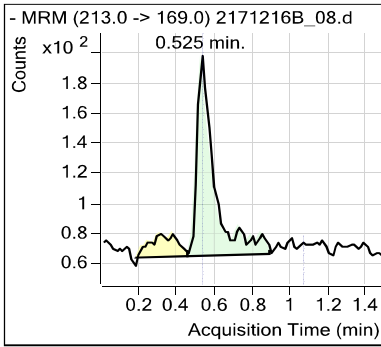
Target Compound NMeFOSAA

Quantitative Analysis Sample Report

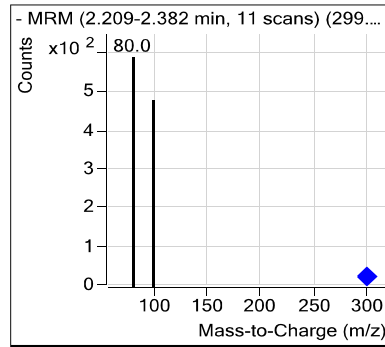
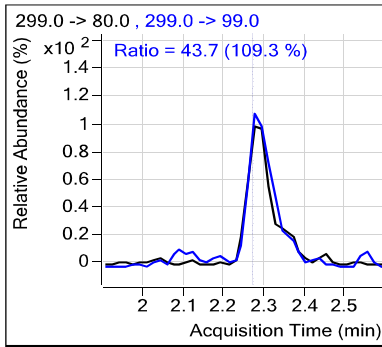
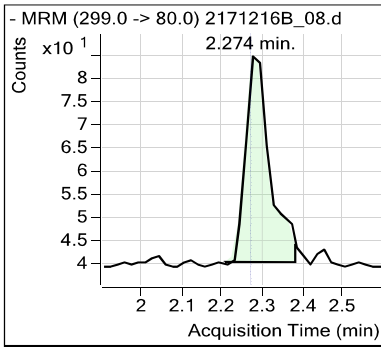


Quantitative Analysis Sample Report

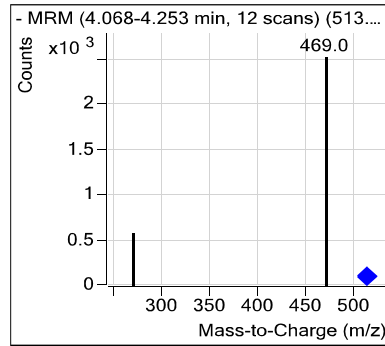
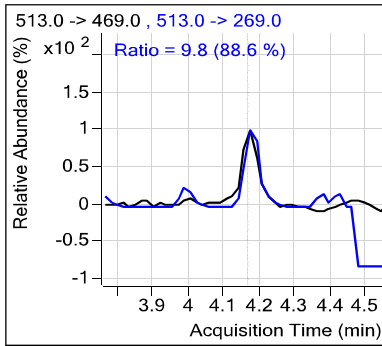
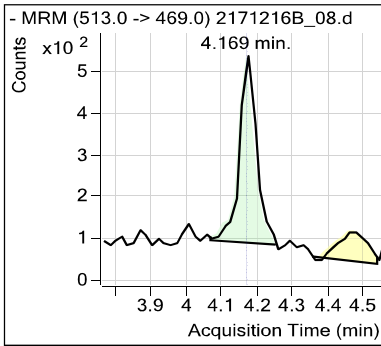
Target Compound PFBA



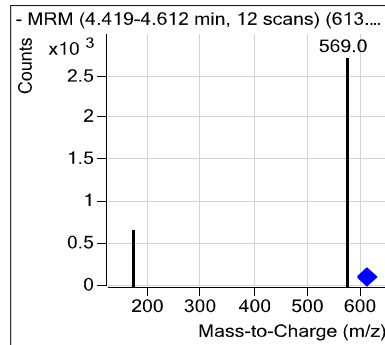
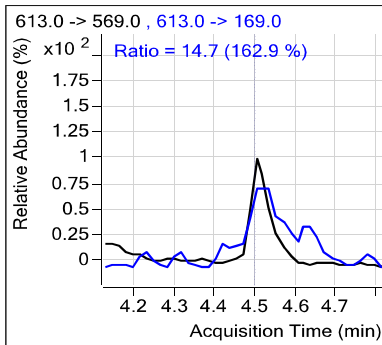
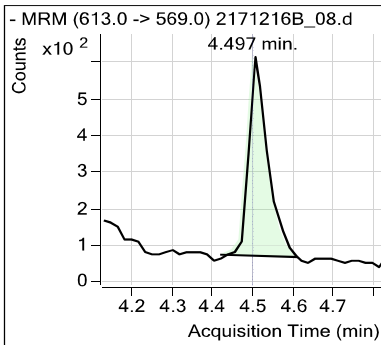
Target Compound PFBS



Target Compound PFDA

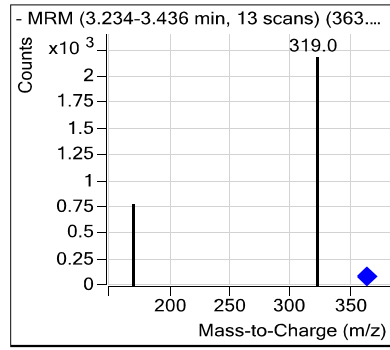
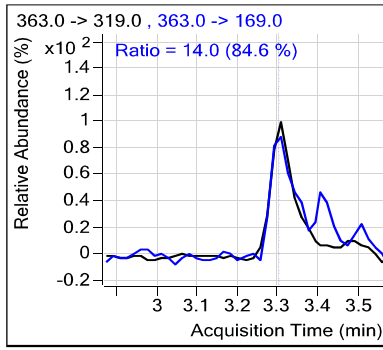
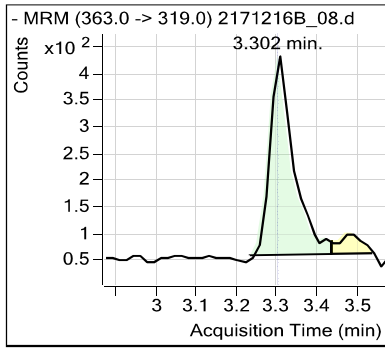


Target Compound PFDaA



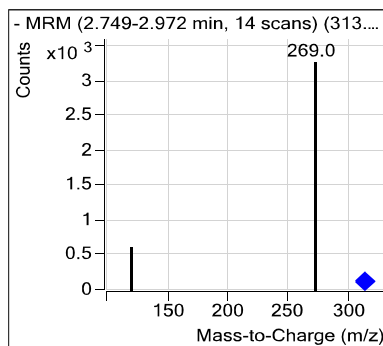
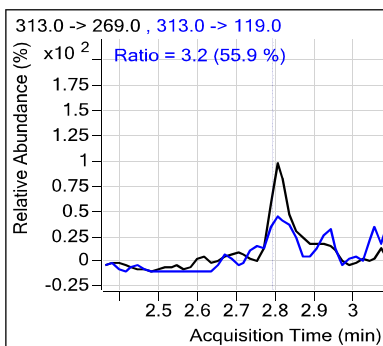
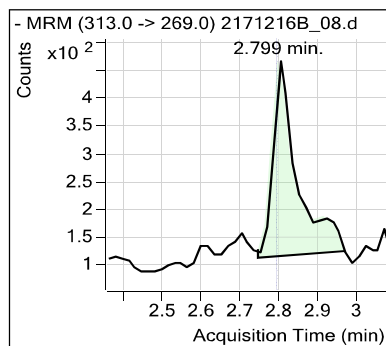
Target Compound PFHpA

Quantitative Analysis Sample Report

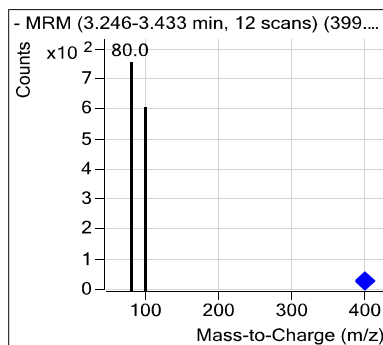
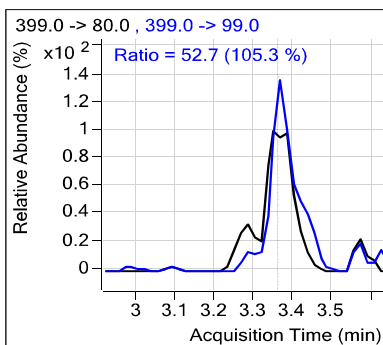
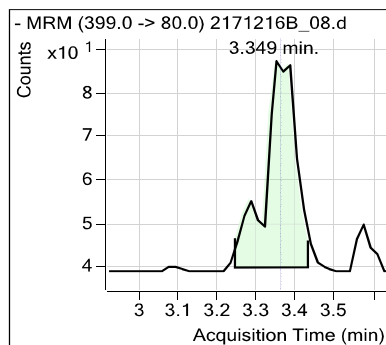


Quantitative Analysis Sample Report

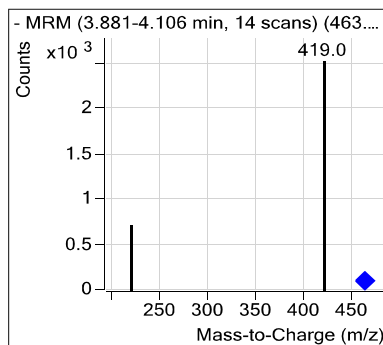
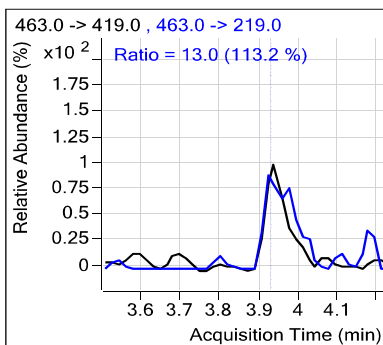
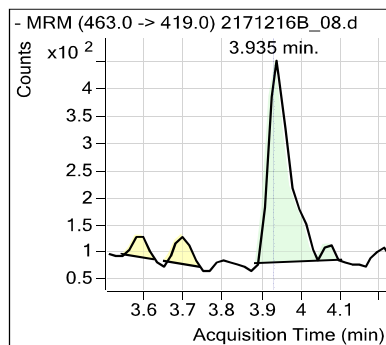
Target Compound PFHxA



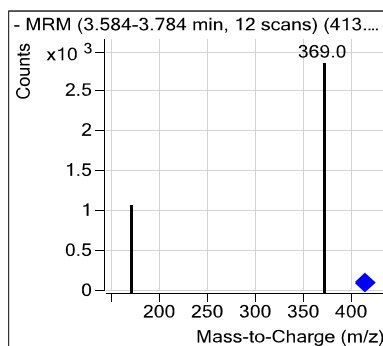
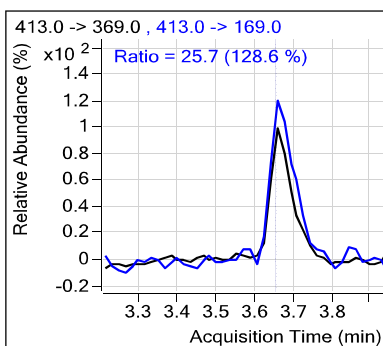
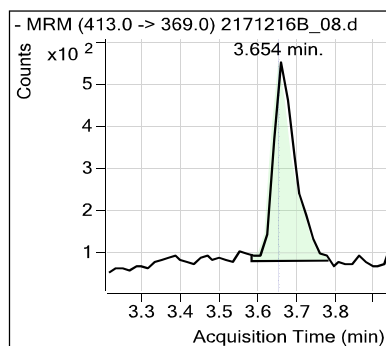
Target Compound PFHxS



Target Compound PFNA

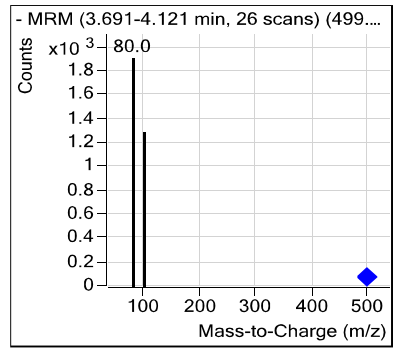
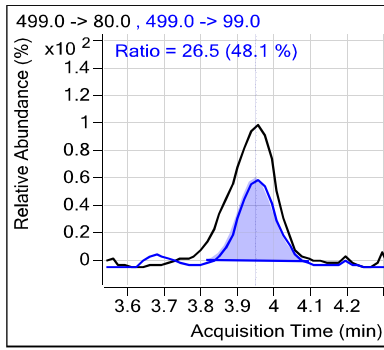
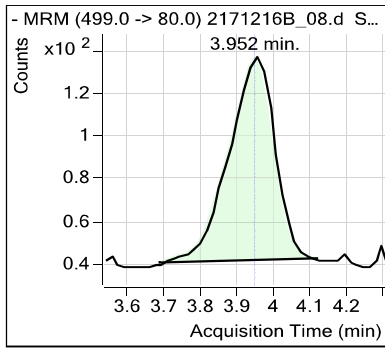


Target Compound PFOA



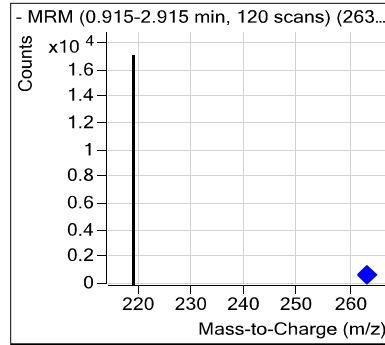
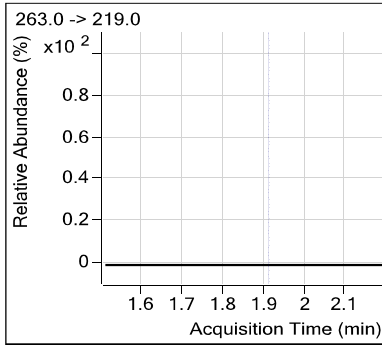
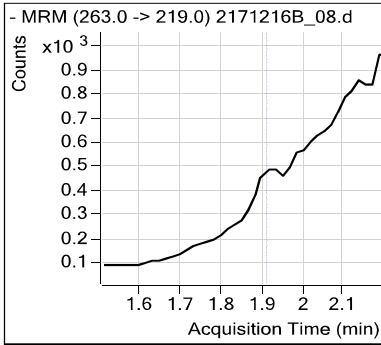
Target Compound PFOS

Quantitative Analysis Sample Report

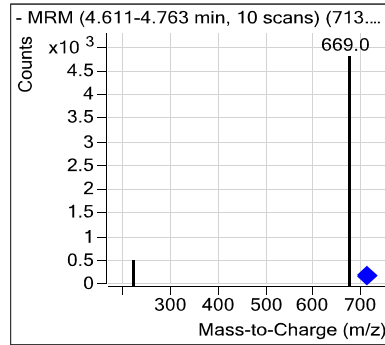
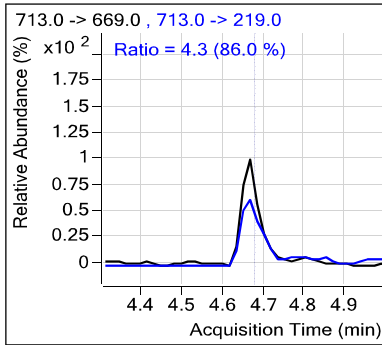
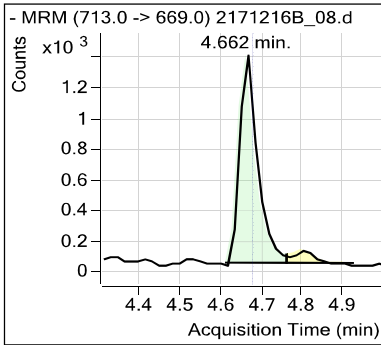


Quantitative Analysis Sample Report

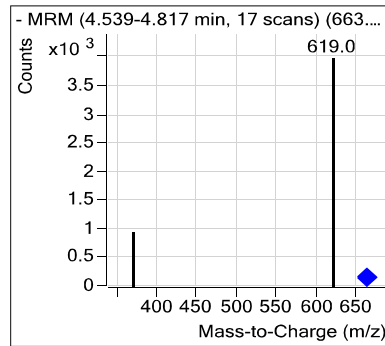
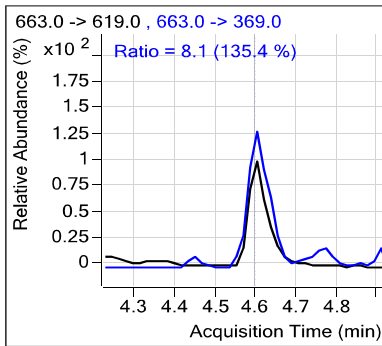
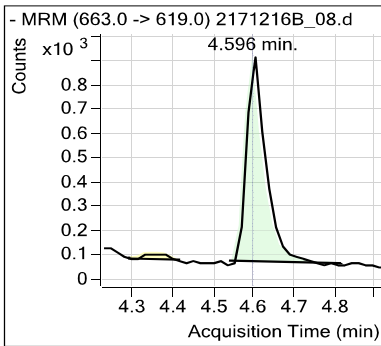
Target Compound PFPeA



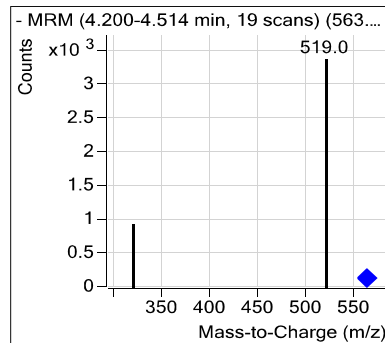
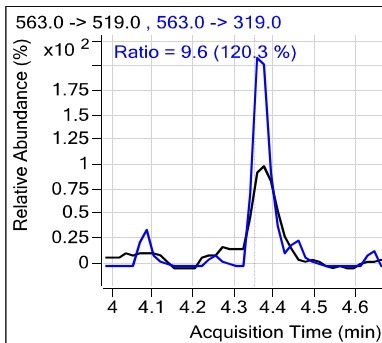
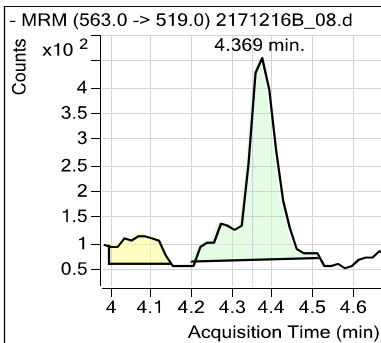
Target Compound PFTeDA



Target Compound PFTrDA



Target Compound PFUDA



Quantitative Analysis Sample Report

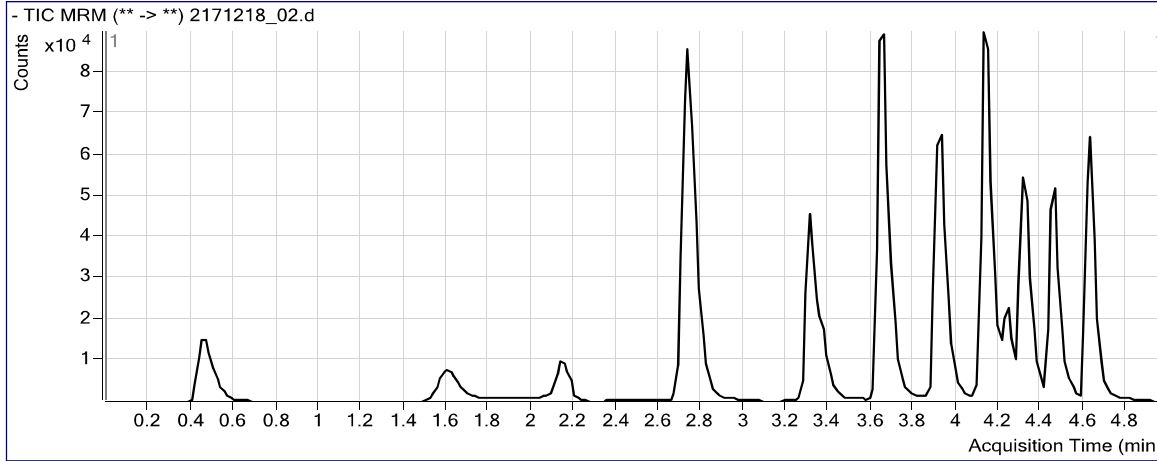
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/19/2017 9:28

Analysis Info

Data File 2171218_02.d **Position** Vial 2 **Samp Name** IBLK **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Sample **Comment** MEG

Sample Chromatogram



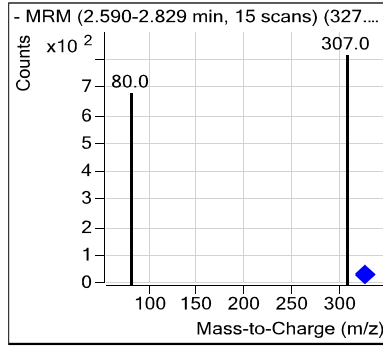
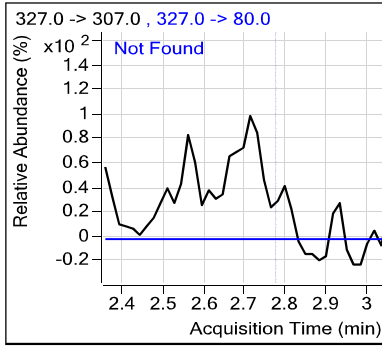
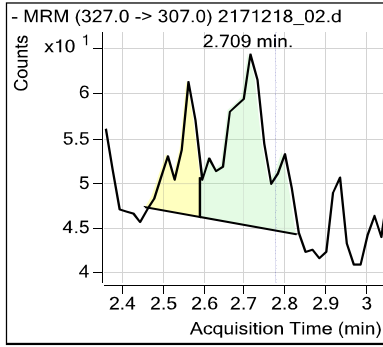
Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.135	152322		104.5	20.8906			3346
M2PFHxA		2.748	243980		107.2	42.8969			13563
M2PFOA		3.669	168619		107.3	21.4553			6622
M4PFOS		3.932	38239		102.6	20.5180			4788
4:2 FTS	M2 4:2 FTS	2.709	134	6399	136.2	0.1371			3
6:2 FTS	M2 6:2 FTS	3.649	354	10294	148.1	0.2667			5
8:2 FTS	M2 8:2 FTS	4.167	154	10685	148.9	0.1326			1
FOSA-I	M8FOSA	4.258	271	62512	113.8	0.0775			16
LPFDS	M6PFDA	4.313	176	168249	131.8	0.0690			2
LPFHpS	M8PFOA	3.680	247	171593	129.0	0.0984			6
LPFNS	M9PFNA	4.149	229	182814	126.5	0.1120			39
LPFPeS	M5PFHxA	2.944	156	126873	129.0	0.0631			1
NEtFOSAA	d5-NEtFOSAA	4.332	105	13471	142.8	0.0850		m	INF
NMeFOSAA	d3-NMeFOSAA	4.231	126	8199	143.2	0.1012			3
PFBA	MPFBA	0.442	1189	83060	181.5	0.2637			3
PFDA	M6PFDA	4.135	1525	168249	131.8	0.1652			106
PFDoA	MPFDoA	4.464	1050	176641	120.7	0.1219			14
PFHpA	M4PFHpA	3.319	1432	162234	129.2	0.1560			2
PFHxA	M5PFHxA	2.749	1453	126873	129.0	0.2218			10
PFHxS	M3PFHxS	3.382	253	35757	114.6	0.1331			5
PFNA	M9PFNA	3.918	1160	182814	126.5	0.1156			13
PFOA	M8PFOA	3.670	2281	171593	129.0	0.2300			18
PFOS	M8PFOS	3.933	1008	36483	123.5	0.4031			20
PFPeA	M5PFPeA	1.610	127	48120	102.8	0.0478			INF
PFTeDA	M2PFTeDA	4.628	2262	210384	124.5	0.2284			38
PFTrDA	M2PFTeDA	4.545	854	210384	124.5	0.0862			12
PFUdA	M7PFUdA	4.318	990	172285	128.1	0.1328			24

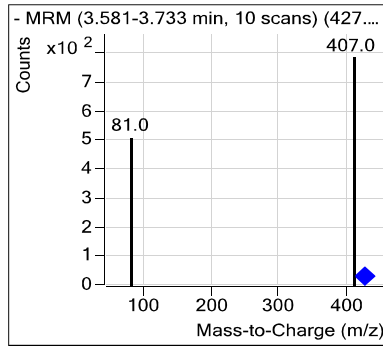
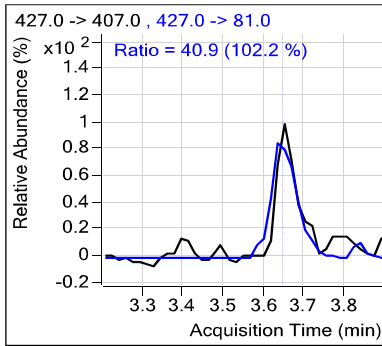
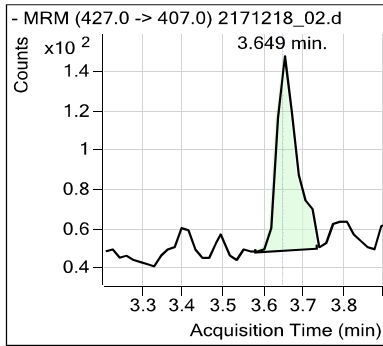
Quantitative Analysis Sample Report

Compound Graphics

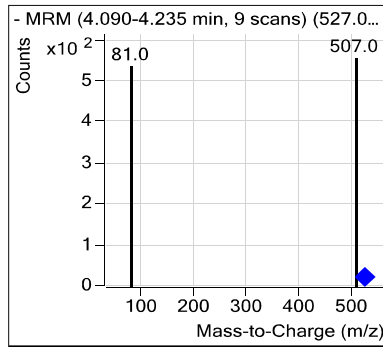
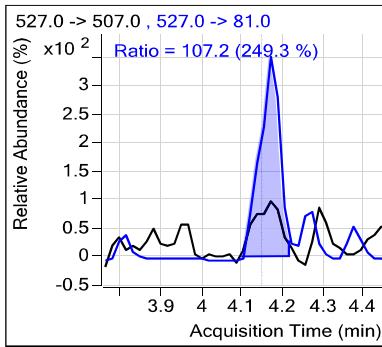
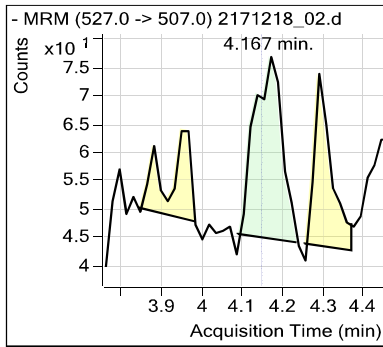
Target Compound 4:2 FTS



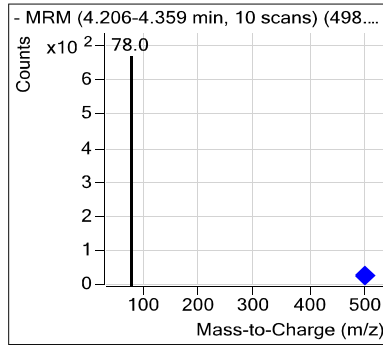
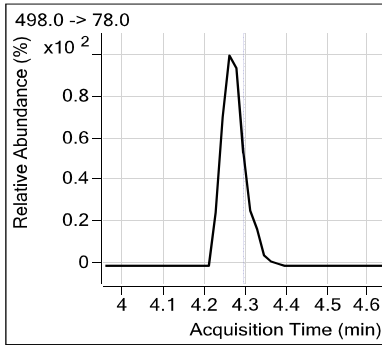
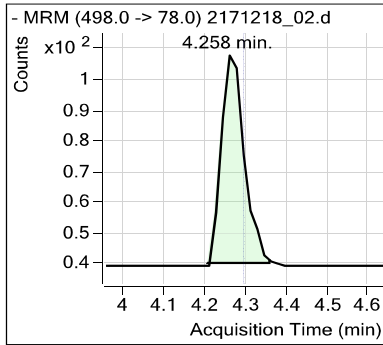
Target Compound 6:2 FTS



Target Compound 8:2 FTS

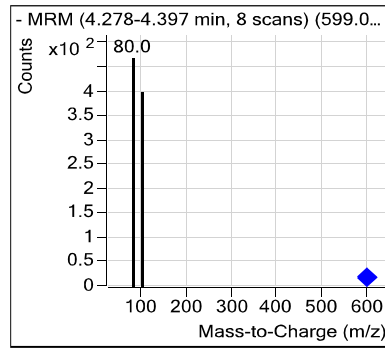
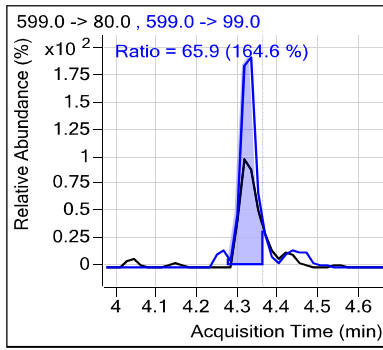
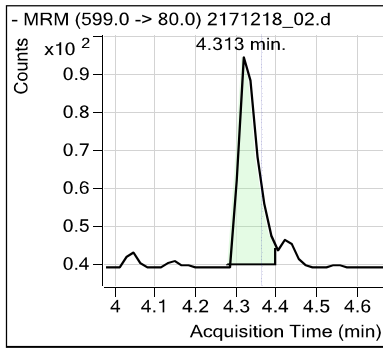


Target Compound FOSA-I



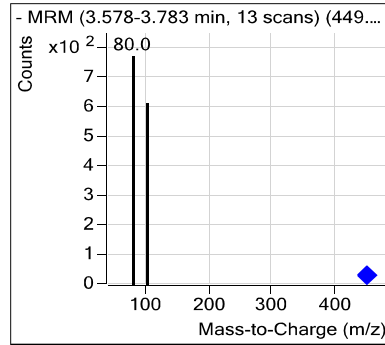
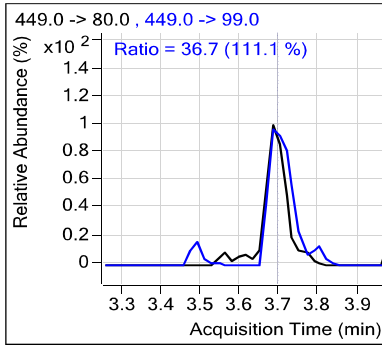
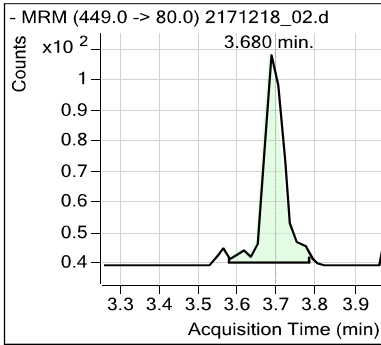
Target Compound LPFDS

Quantitative Analysis Sample Report

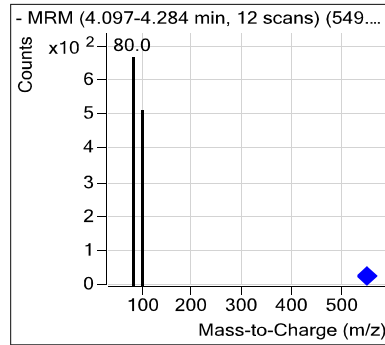
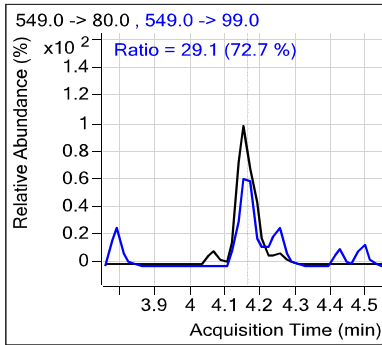
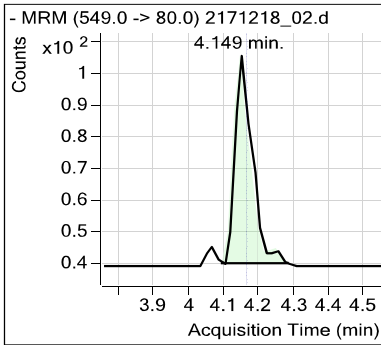


Quantitative Analysis Sample Report

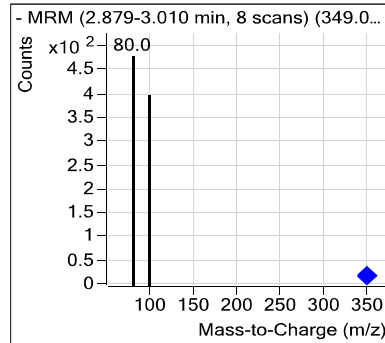
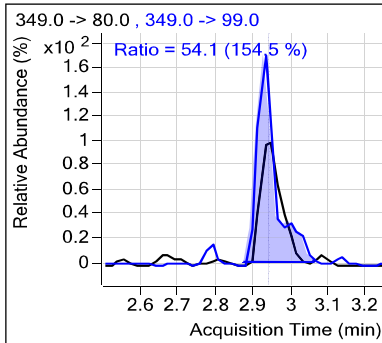
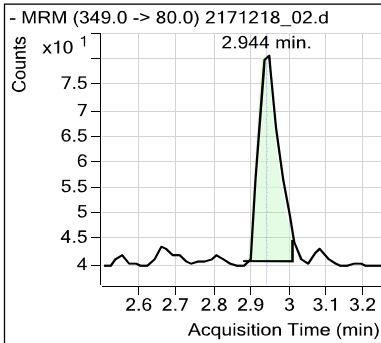
Target Compound LPFHpS



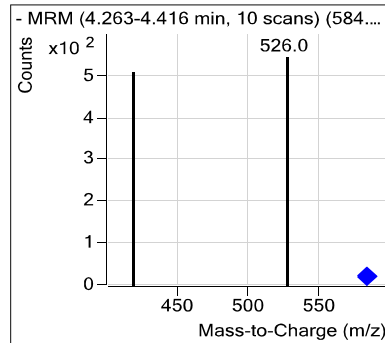
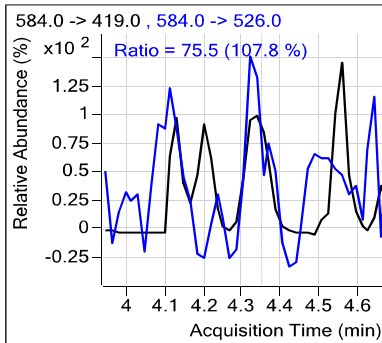
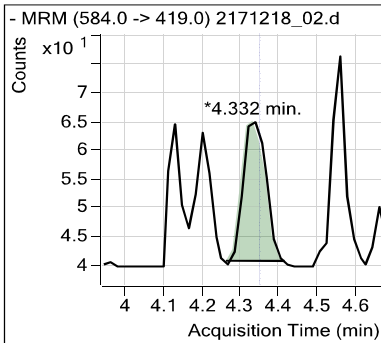
Target Compound LPFNs



Target Compound LPFPeS

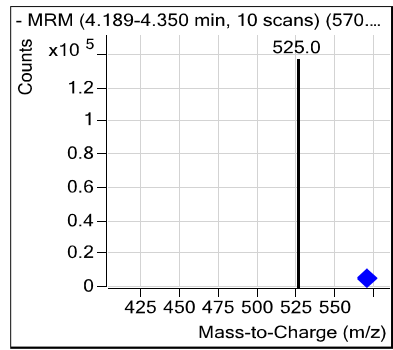
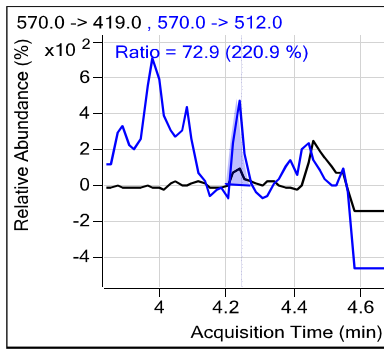
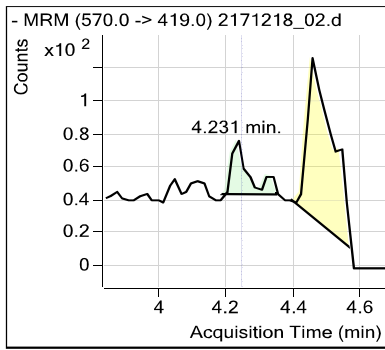


Target Compound NEtFOSAA



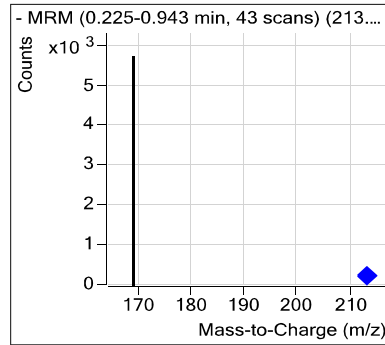
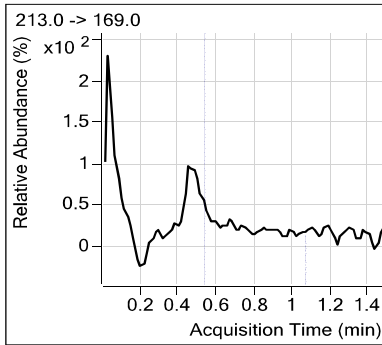
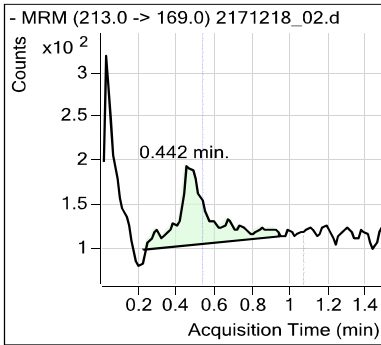
Target Compound NMeFOSAA

Quantitative Analysis Sample Report

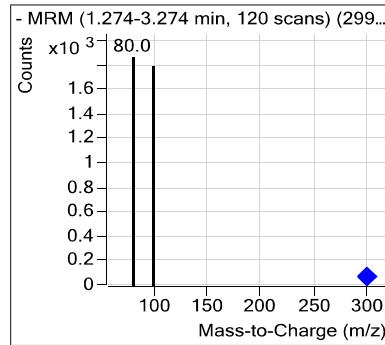
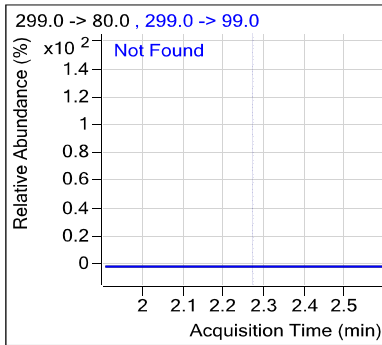
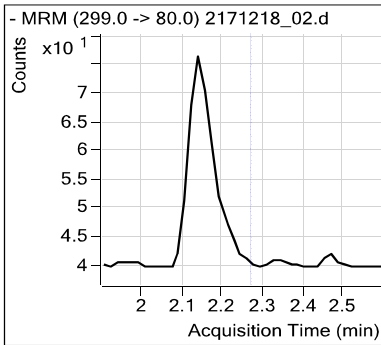


Quantitative Analysis Sample Report

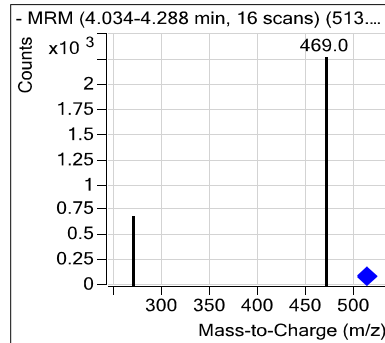
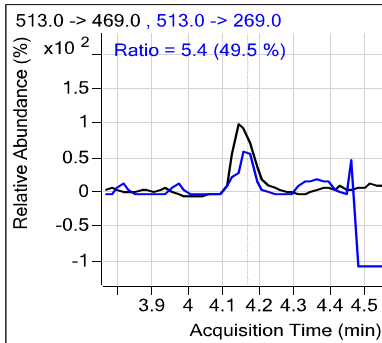
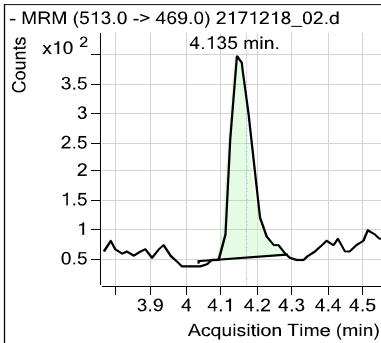
Target Compound PFBA



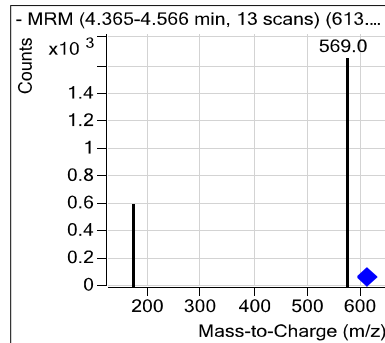
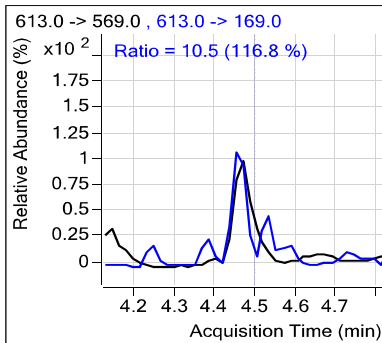
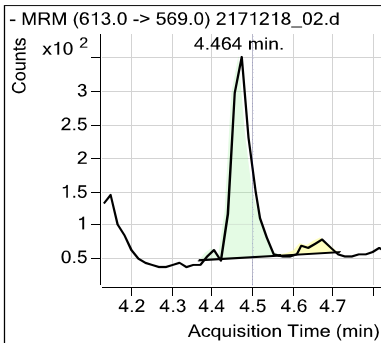
Target Compound PFBS



Target Compound PFDA

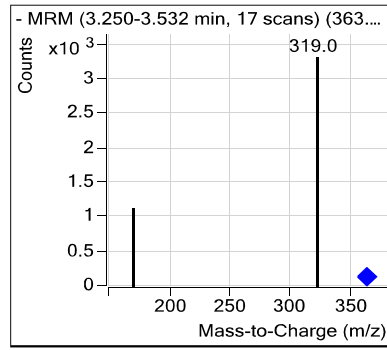
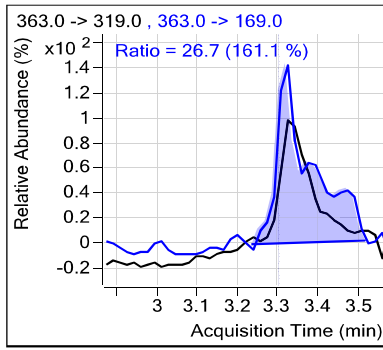
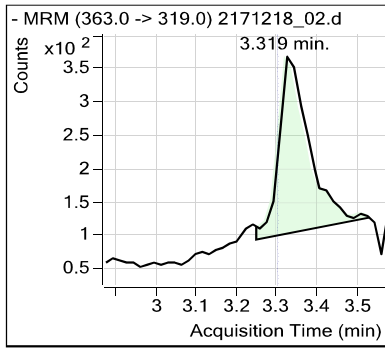


Target Compound PFDaA



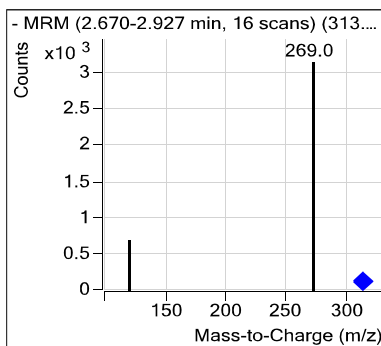
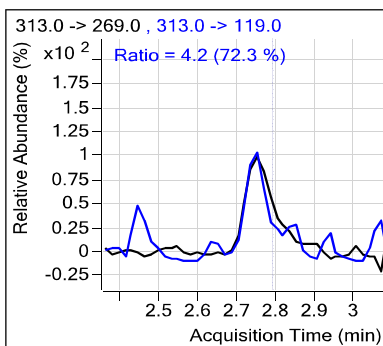
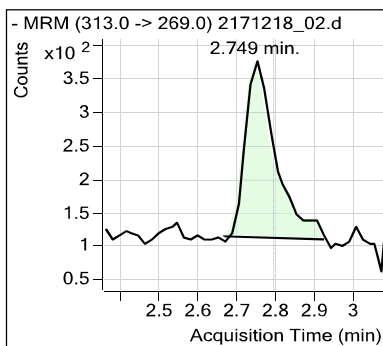
Target Compound PFHpA

Quantitative Analysis Sample Report

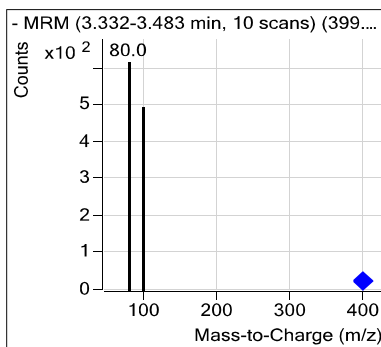
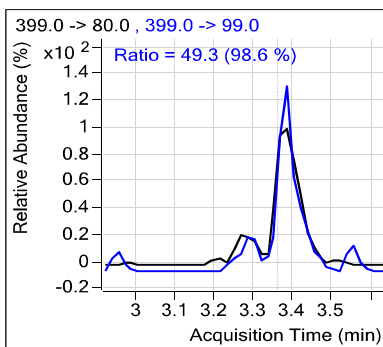
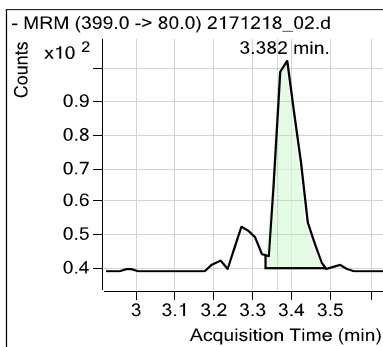


Quantitative Analysis Sample Report

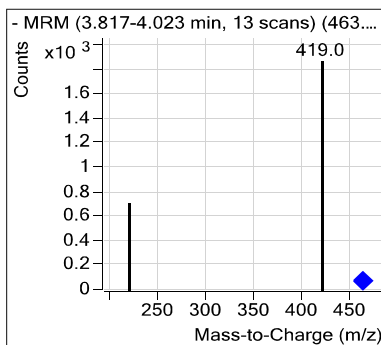
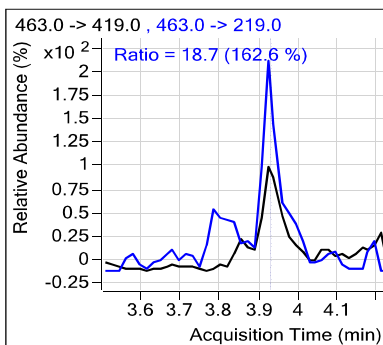
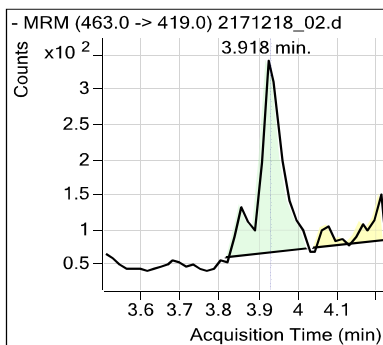
Target Compound PFHxA



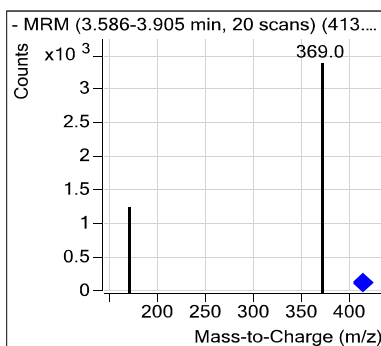
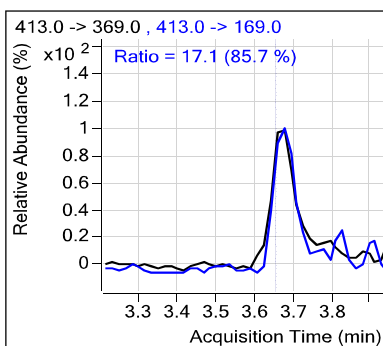
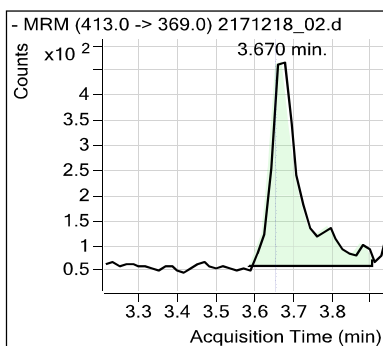
Target Compound PFHxS



Target Compound PFNA

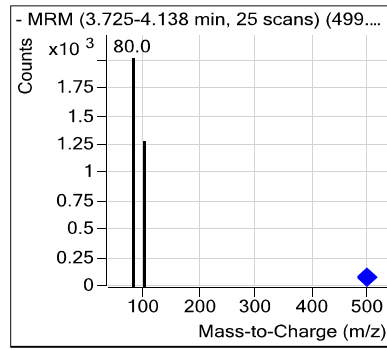
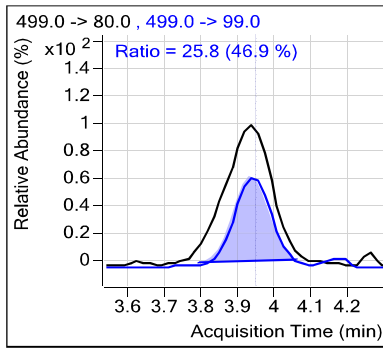
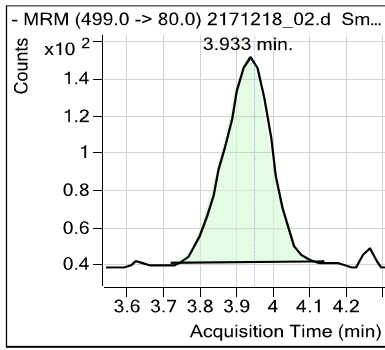


Target Compound PFOA



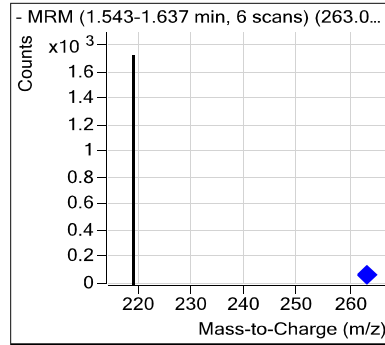
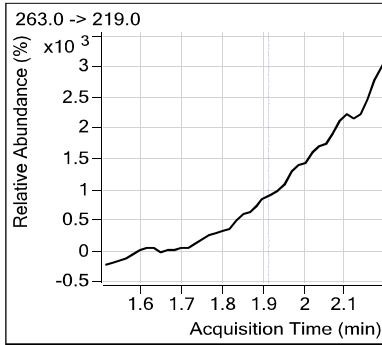
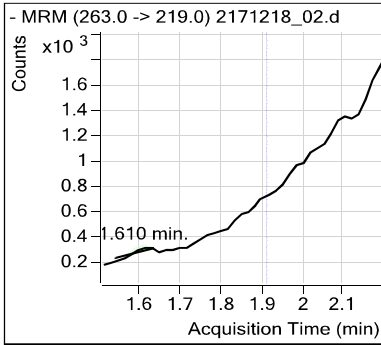
Target Compound PFOS

Quantitative Analysis Sample Report

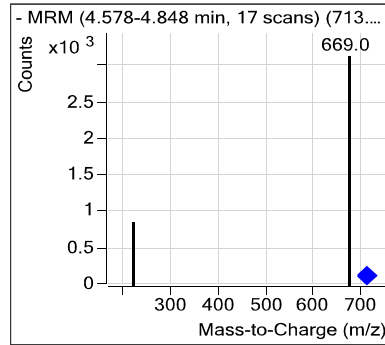
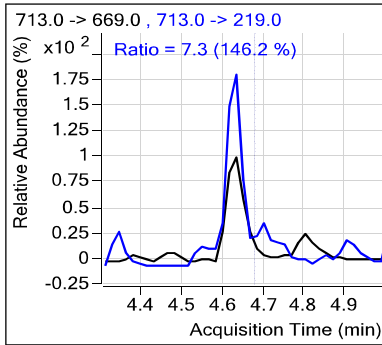
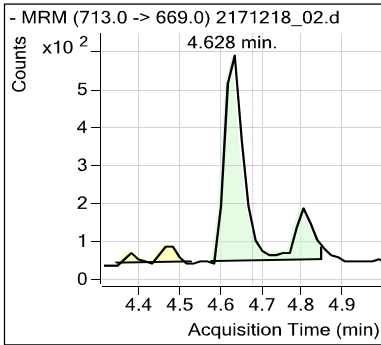


Quantitative Analysis Sample Report

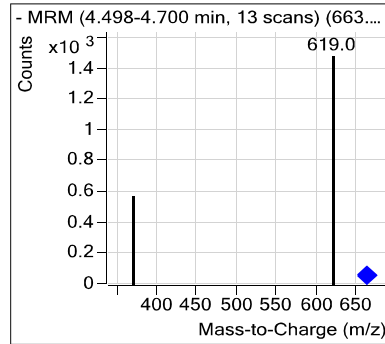
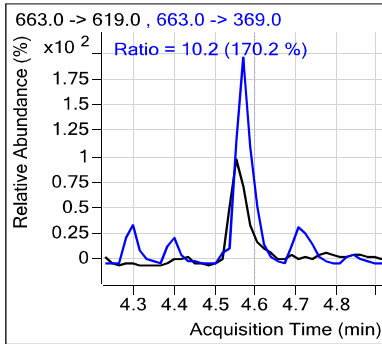
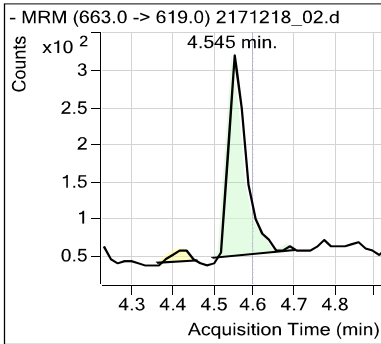
Target Compound PFPeA



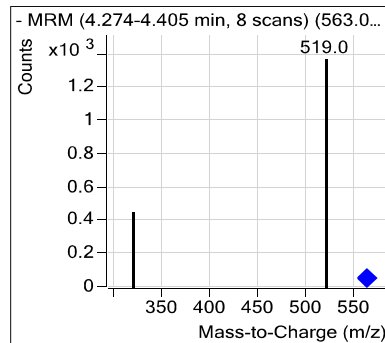
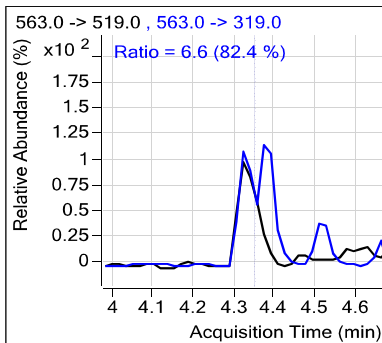
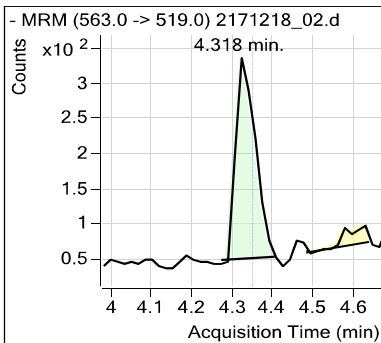
Target Compound PFTeDA



Target Compound PFTrDA



Target Compound PFUdA



Quantitative Analysis Sample Report

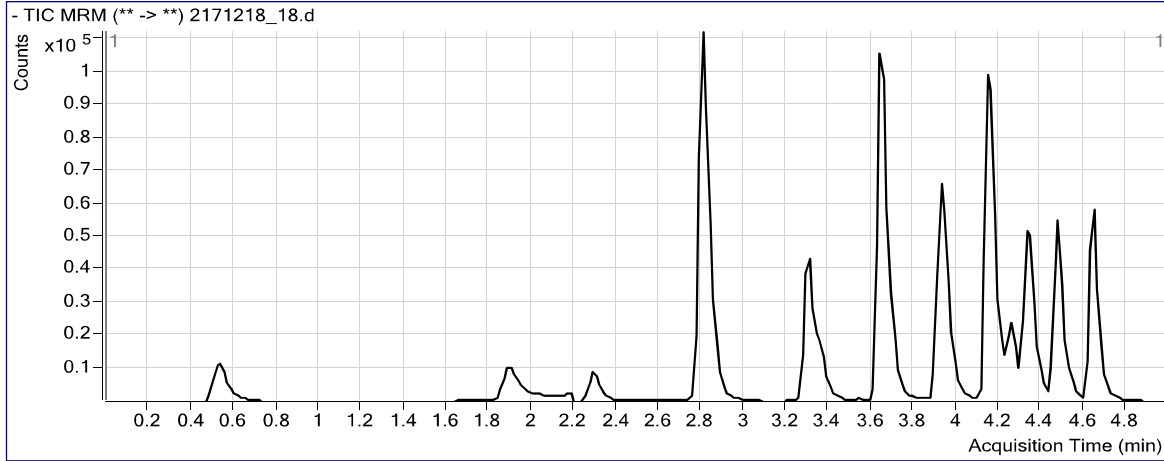
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/19/2017 9:28

Analysis Info

Data File 2171218_18.d **Position** Vial 18 **Samp Name** IB **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Sample **Comment** MEG

Sample Chromatogram



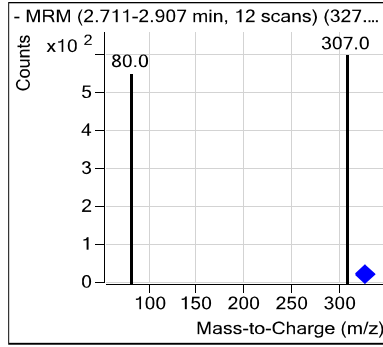
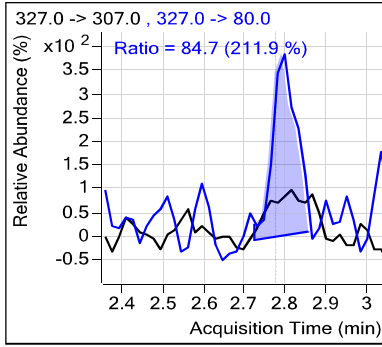
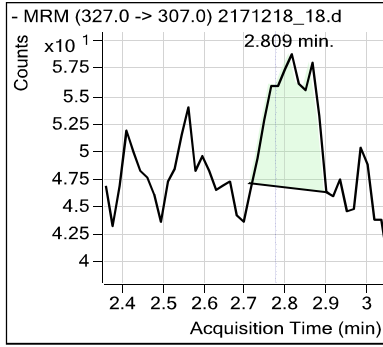
Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.152	182590		125.2	25.0418			526
M2PFHxA		2.814	286324		125.9	50.3420			16135
M2PFOA		3.652	206000		131.1	26.2118			12268
M4PFOS		3.951	43904		117.8	23.5582			422
4:2 FTS	M2 4:2 FTS	2.809	88	7054	150.1	0.0815			1
6:2 FTS	M2 6:2 FTS	3.649	228	9861	141.9	0.1792			2
8:2 FTS	M2 8:2 FTS	4.150	69	10231	142.5	0.0620			2
FOSA-I	M8FOSA	4.275	137	63354	115.3	0.0386			1
LPFNS	M9PFNA	4.149	76	177152	122.5	0.0383			7
NETFOSAA	d5-NETFOSAA	4.332	65	12853	136.2	0.0550		m	INF
NMeFOSAA	d3-NMeFOSAA	4.231	55	8087	141.3	0.0444			1
PFBA	MPFBA	0.525	887	59466	129.9	0.2746			4
PFDA	M6PFDA	4.169	746	159194	124.7	0.0854			4
PFDoA	MPFDoA	4.464	557	169695	116.0	0.0673			13
PFHpA	M4PFHpA	3.319	646	156153	124.4	0.0731			1
PFHxA	M5PFHxA	2.816	1272	122490	124.5	0.2011			12
PFHxS	M3PFHxS	3.382	184	35006	112.2	0.0993			2
PFNA	M9PFNA	3.935	823	177152	122.5	0.0846			3
PFOA	M8PFOA	3.654	1251	174130	130.9	0.1243			4
PFOS	M8PFOS	3.952	597	32230	109.1	0.2703			8
PFTeDA	M2PFTeDA	4.645	959	181183	107.2	0.1124			19
PFTrDA	M2PFTeDA	4.563	461	181183	107.2	0.0540			5
PFUdA	M7PFUdA	4.335	579	163341	121.4	0.0819			3

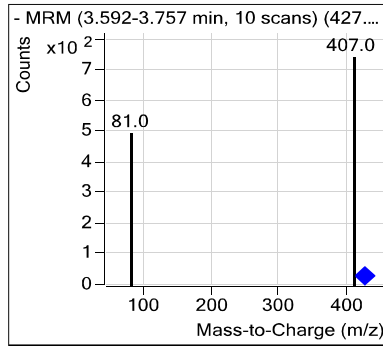
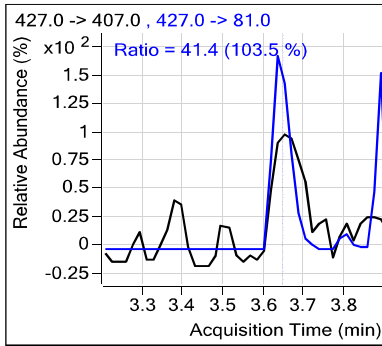
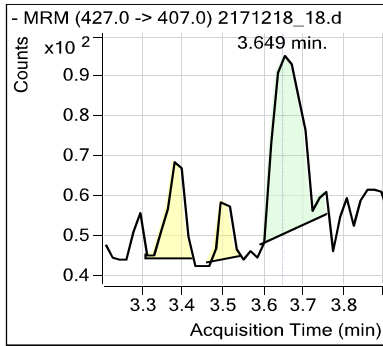
Quantitative Analysis Sample Report

Compound Graphics

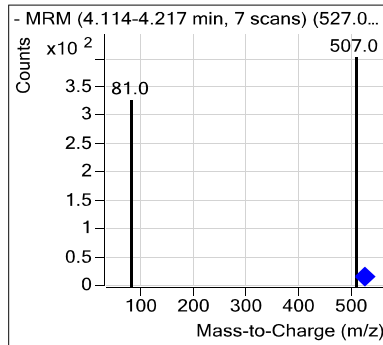
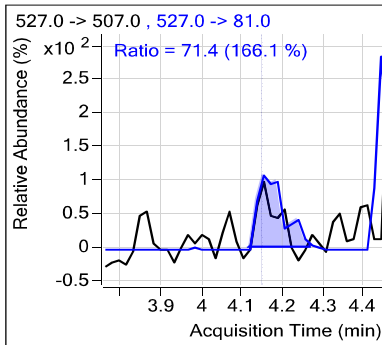
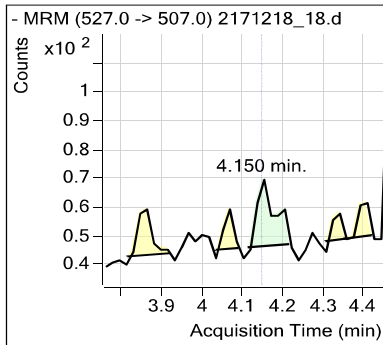
Target Compound 4:2 FTS



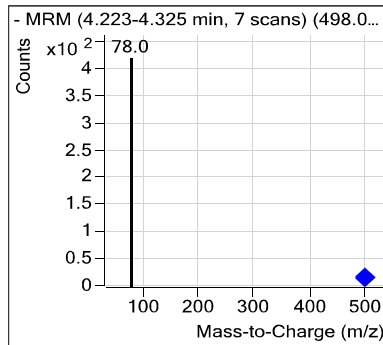
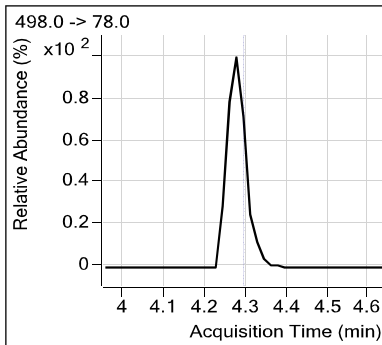
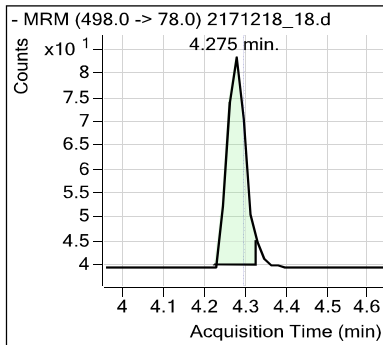
Target Compound 6:2 FTS



Target Compound 8:2 FTS

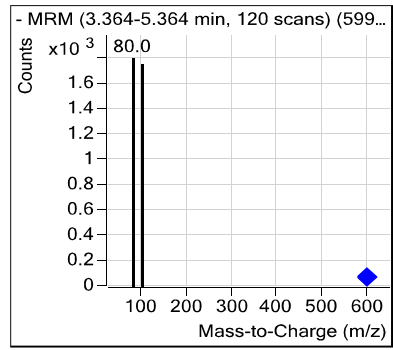
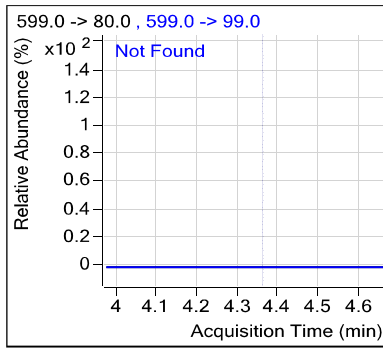
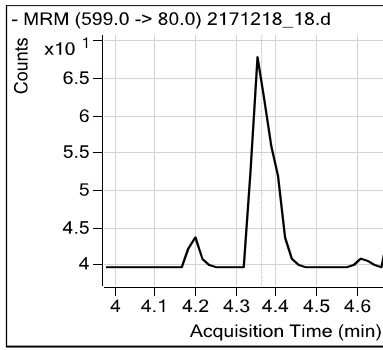


Target Compound FOSA-I



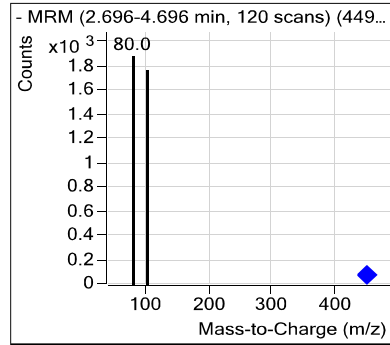
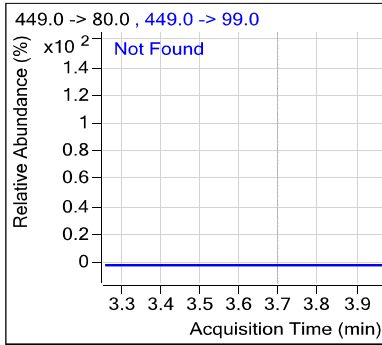
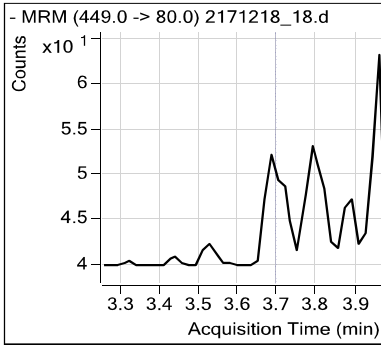
Target Compound LPFDS

Quantitative Analysis Sample Report

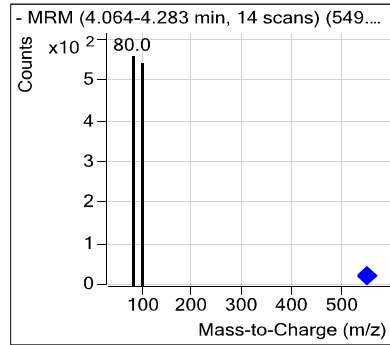
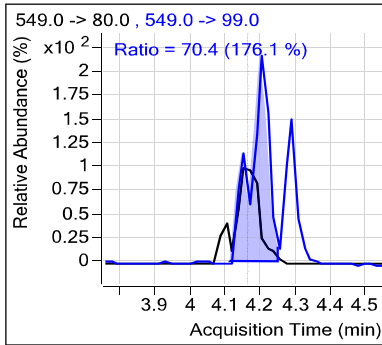
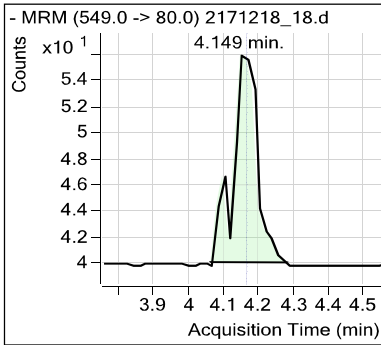


Quantitative Analysis Sample Report

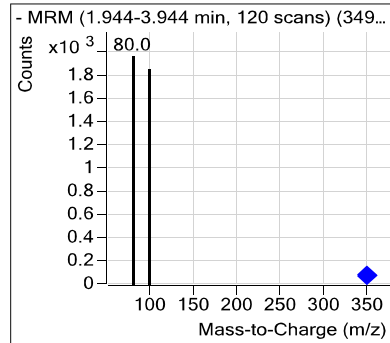
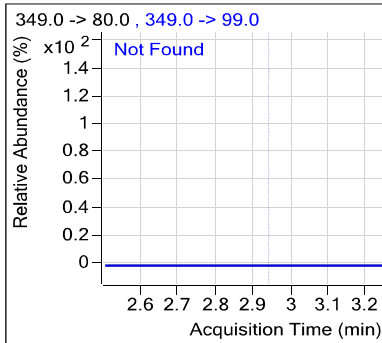
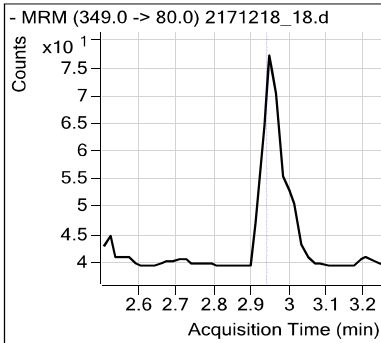
Target Compound LPFHpS



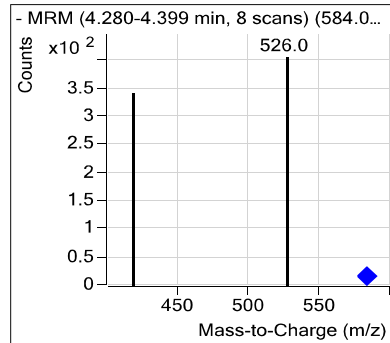
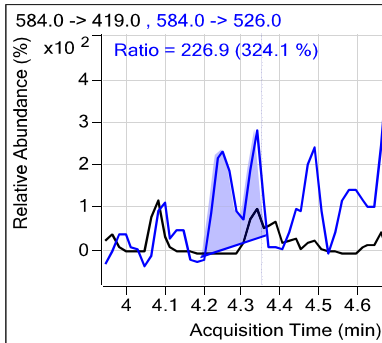
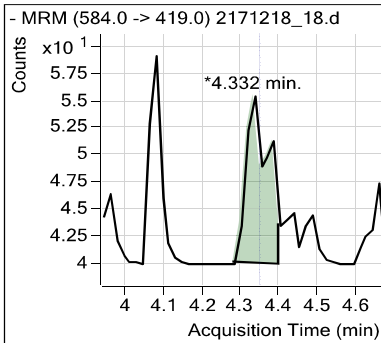
Target Compound LPFNS



Target Compound LPFPeS

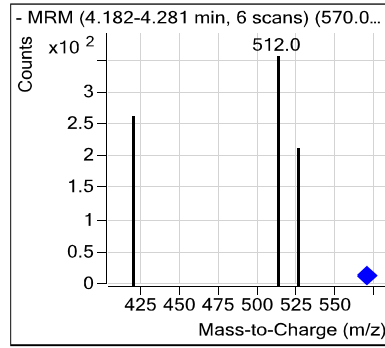
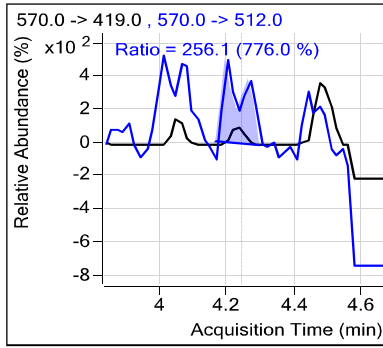
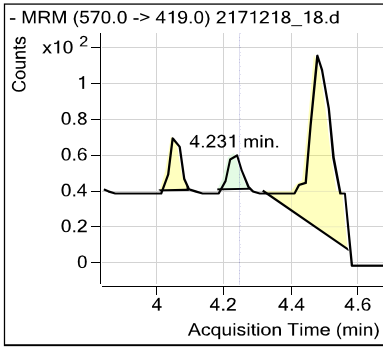


Target Compound NEtFOSAA



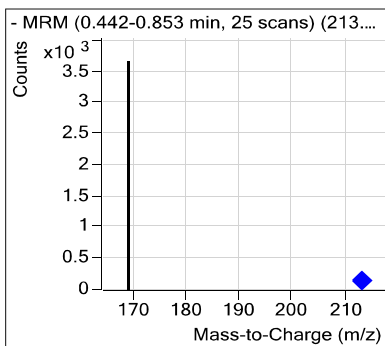
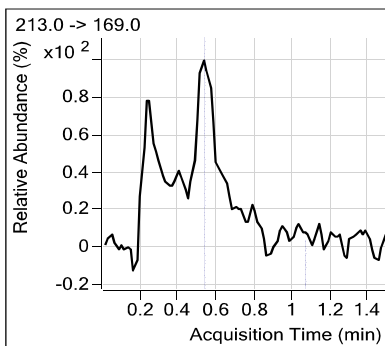
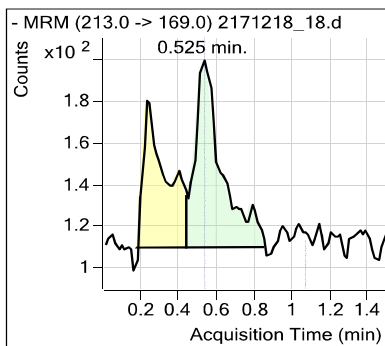
Target Compound NMeFOSAA

Quantitative Analysis Sample Report

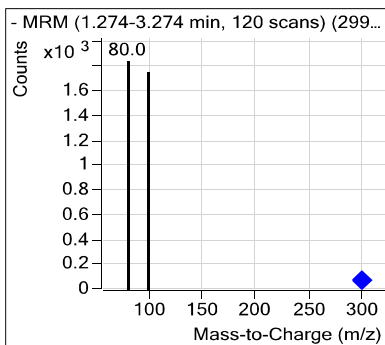
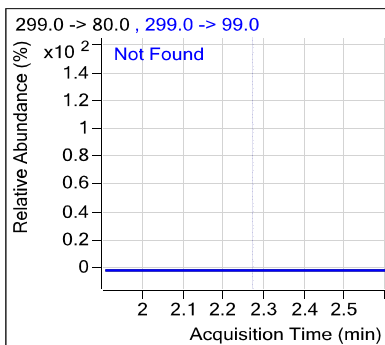
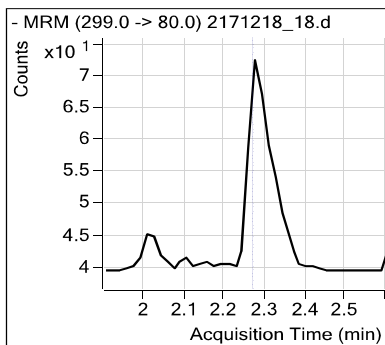


Quantitative Analysis Sample Report

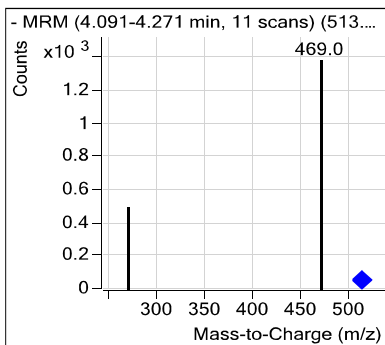
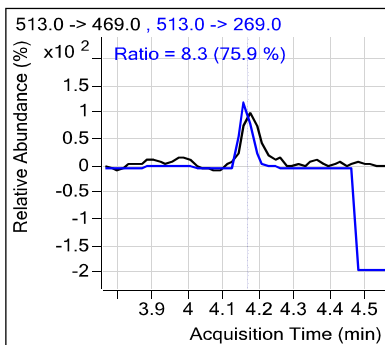
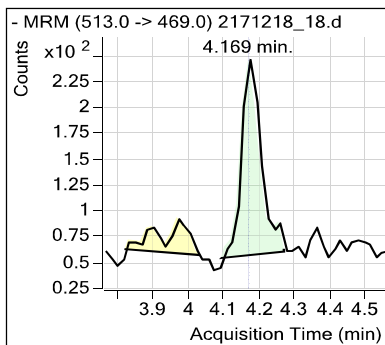
Target Compound PFBA



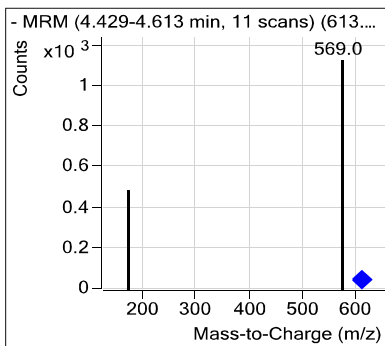
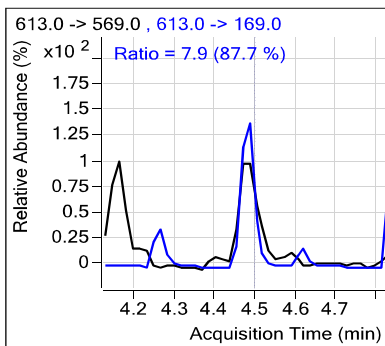
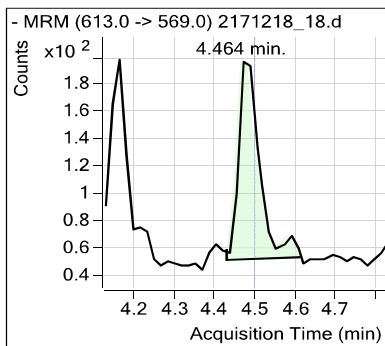
Target Compound PFBS



Target Compound PFDA

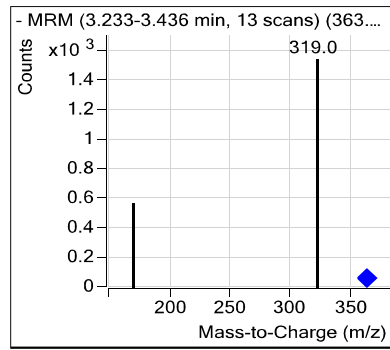
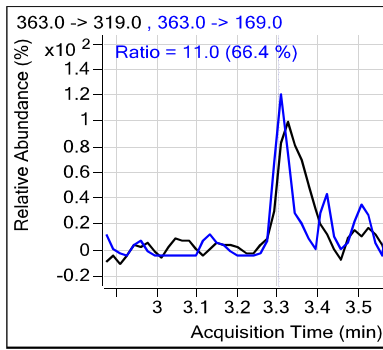
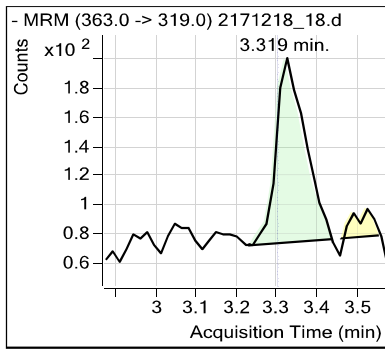


Target Compound PFDaA



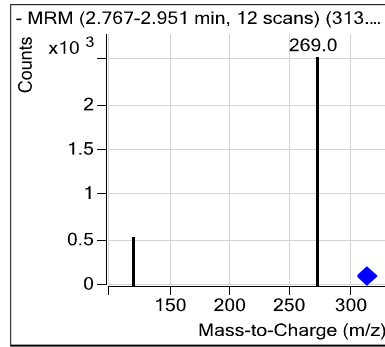
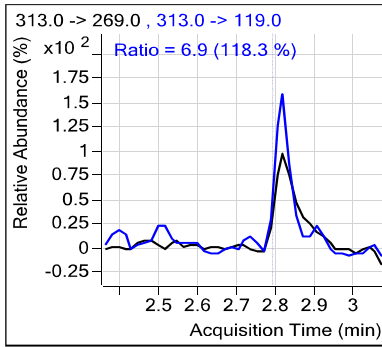
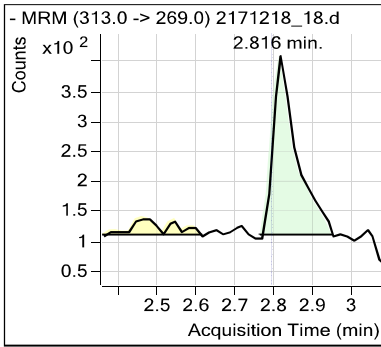
Target Compound PFHpA

Quantitative Analysis Sample Report

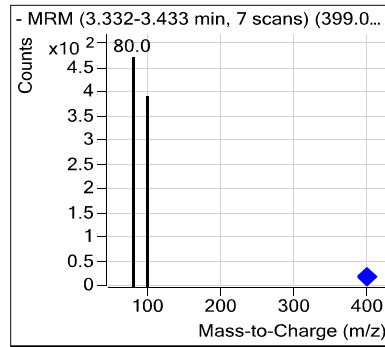
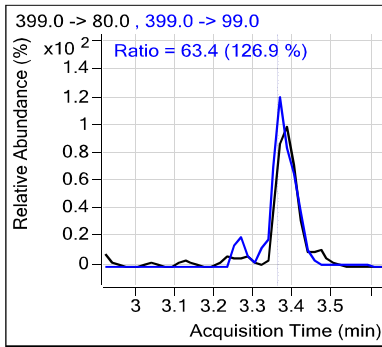
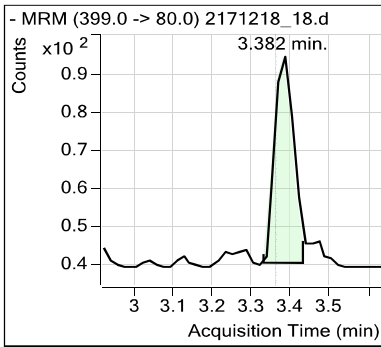


Quantitative Analysis Sample Report

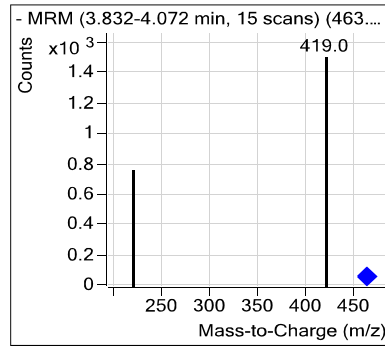
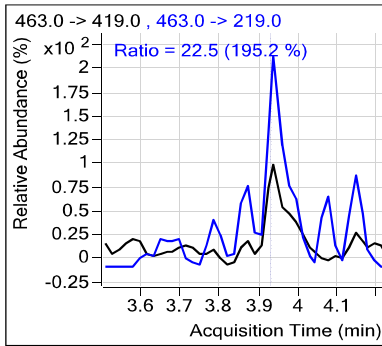
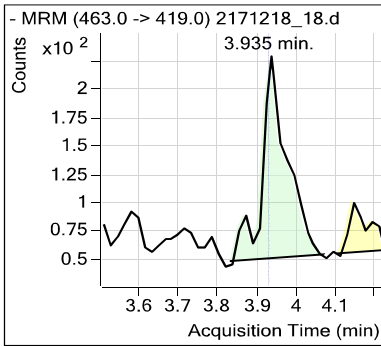
Target Compound PFHxA



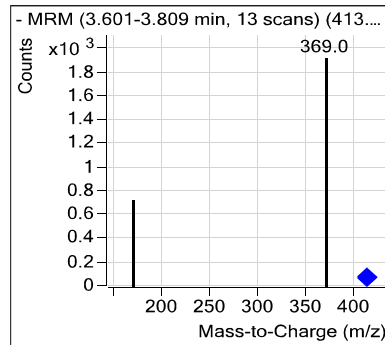
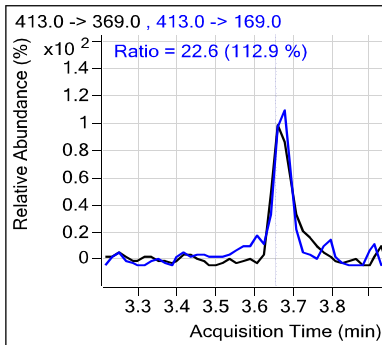
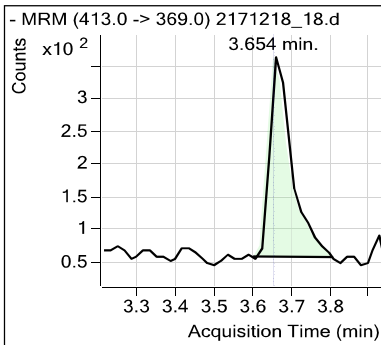
Target Compound PFHxS



Target Compound PFNA

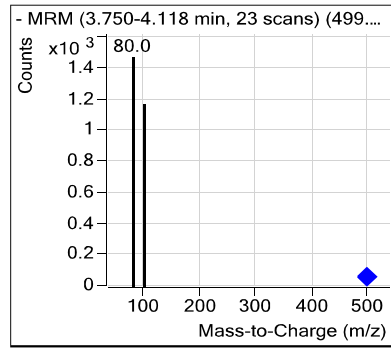
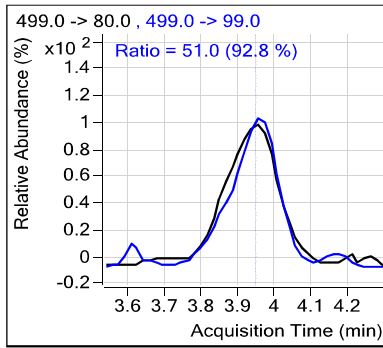
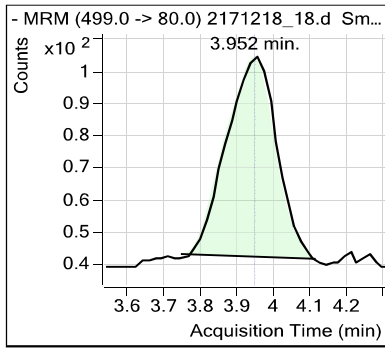


Target Compound PFOA



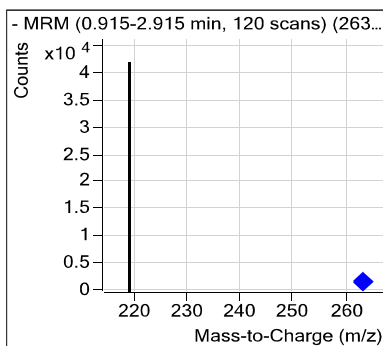
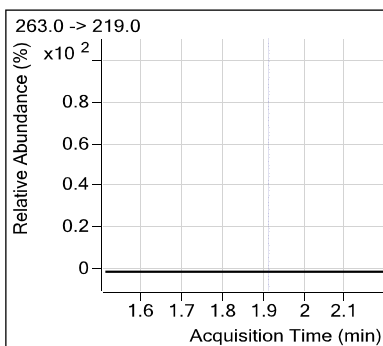
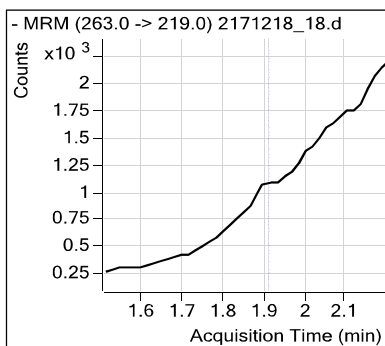
Target Compound PFOS

Quantitative Analysis Sample Report

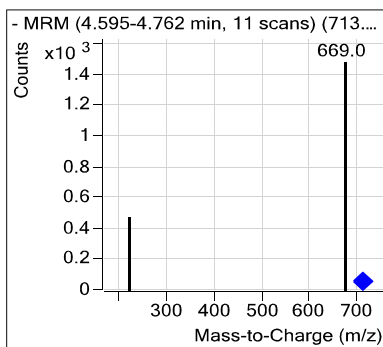
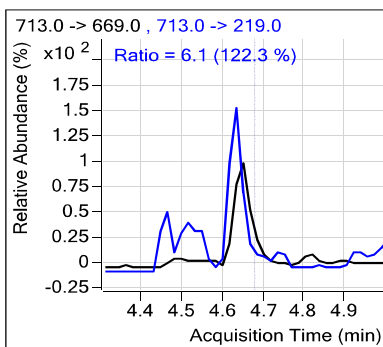
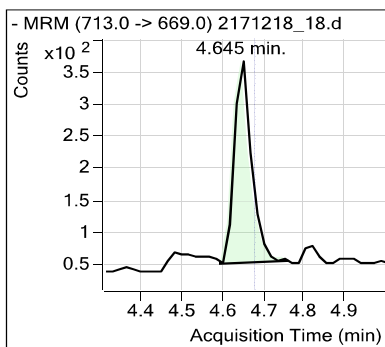


Quantitative Analysis Sample Report

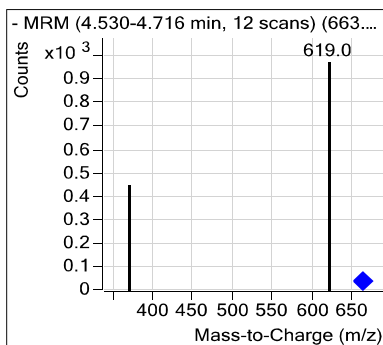
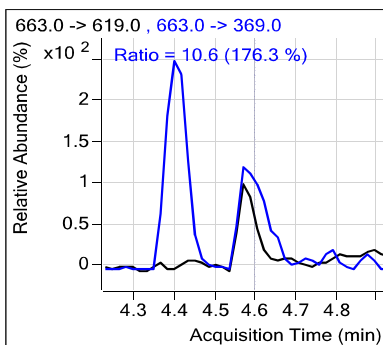
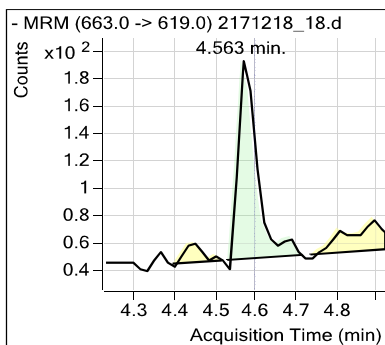
Target Compound PFPeA



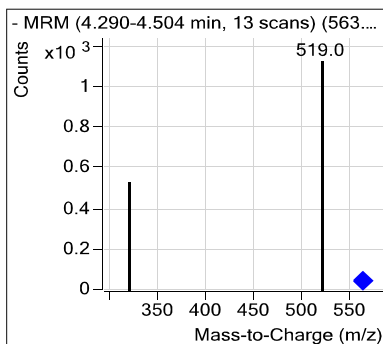
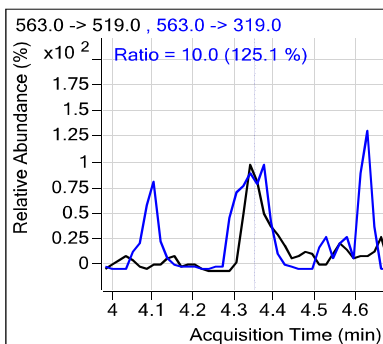
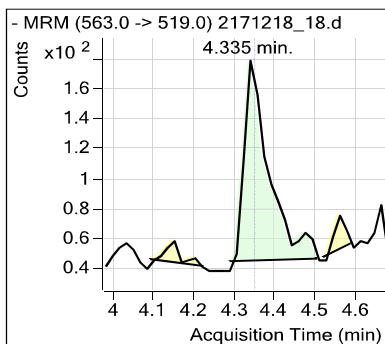
Target Compound PFTeDA



Target Compound PFTrDA



Target Compound PFUdA



Quantitative Analysis Sample Report

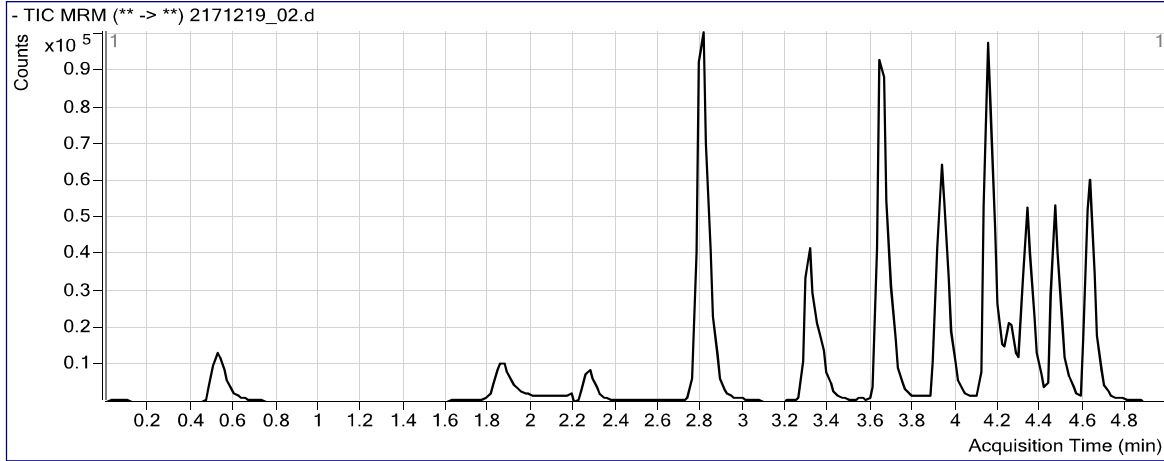
Batch Data Path
Acquisition Time

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Analysis Info

Data File 2171219_02.d **Position** Vial 2 **Samp Name** IBLK **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Sample **Comment** MEG

Sample Chromatogram



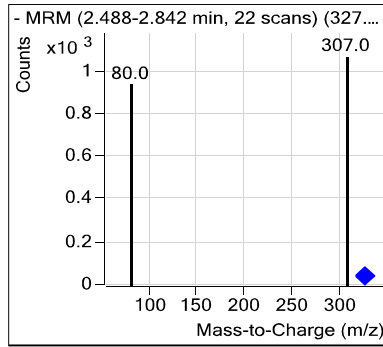
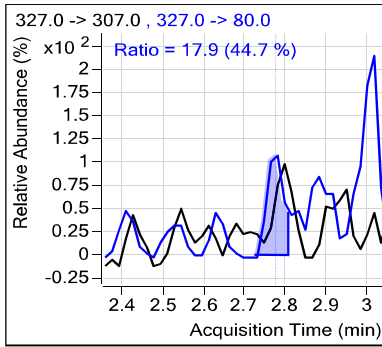
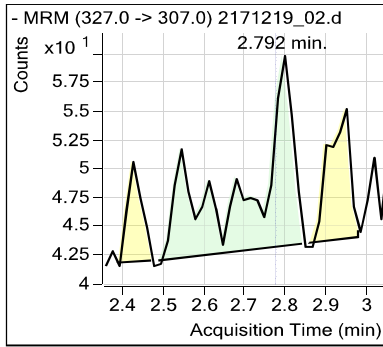
Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.152	170532		116.9	23.3881			11771
M2PFHxA		2.814	276279		121.4	48.5758			10587
M2PFOA		3.652	183584		116.8	23.3595			610
M4PFOS		3.951	42793		114.8	22.9618			1970
4:2 FTS	M2 4:2 FTS	2.792	123	6859	146.0	0.1178			1
6:2 FTS	M2 6:2 FTS	3.631	257	10232	147.2	0.1951			3
8:2 FTS	M2 8:2 FTS	4.252	129	10425	145.2	0.1142			1
LPFDS	M6PFDA	4.347	106	150638	118.0	0.0465			3
LPFNS	M9PFNA	4.165	108	172576	119.4	0.0561			1
NMeFOSAA	d3-NMeFOSAA	4.265	91	8004	139.8	0.0748			4
PFBA	MPFBA	0.509	403	66895	146.1	0.1110			3
PFDA	M6PFDA	4.152	673	150638	118.0	0.0815			4
PFDoA	MPFDoA	4.464	616	161694	110.5	0.0781			5
PFHpA	M4PFHpA	3.319	1336	148453	118.2	0.1591			12
PFHxA	M5PFHxA	2.816	1225	117536	119.5	0.2018			11
PFHxS	M3PFHxS	3.366	487	34546	110.8	0.2659			9
PFNA	M9PFNA	3.935	561	172576	119.4	0.0592			2
PFOA	M8PFOA	3.654	2200	158425	119.1	0.2403			16
PFOS	M8PFOS	3.933	1219	34032	115.2	0.5224			21
PFTeDA	M2PFTeDA	4.628	1281	195113	115.5	0.1395			13
PFTrDA	M2PFTeDA	4.545	668	195113	115.5	0.0727			8
PFUdA	M7PFUdA	4.335	482	155717	115.8	0.0716			6

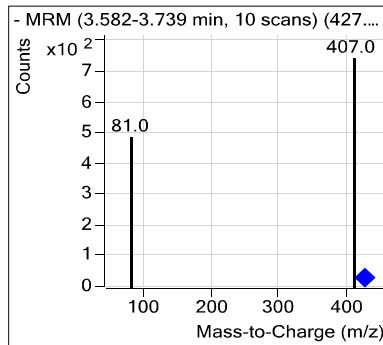
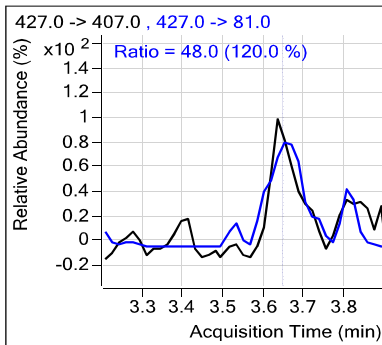
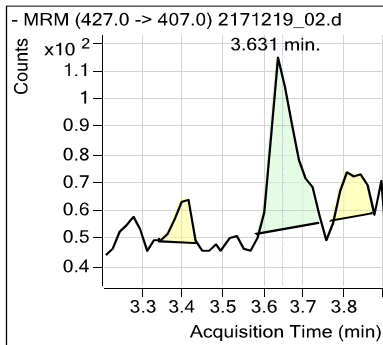
Quantitative Analysis Sample Report

Compound Graphics

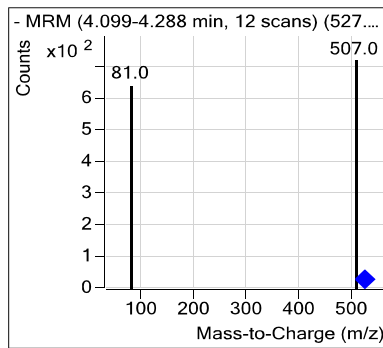
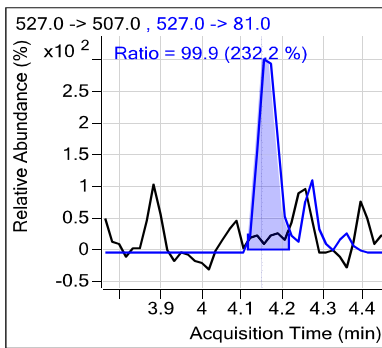
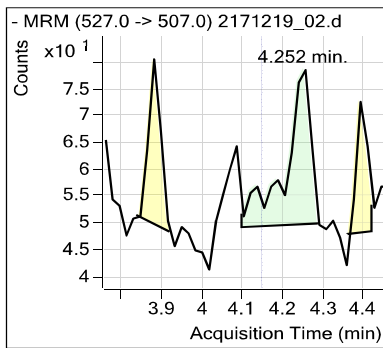
Target Compound 4:2 FTS



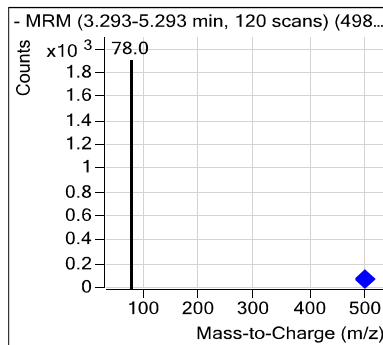
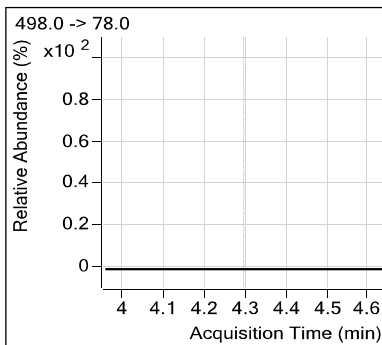
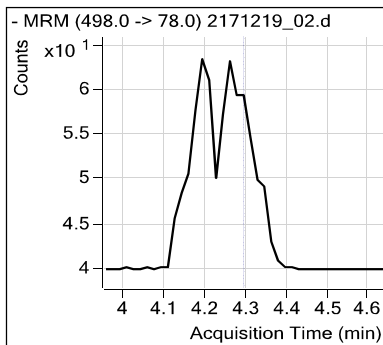
Target Compound 6:2 FTS



Target Compound 8:2 FTS

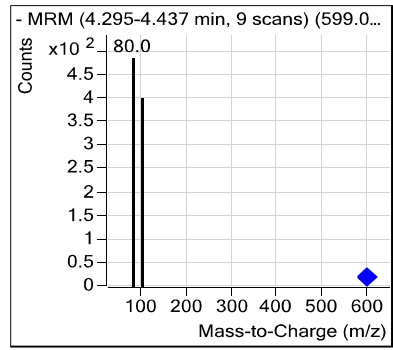
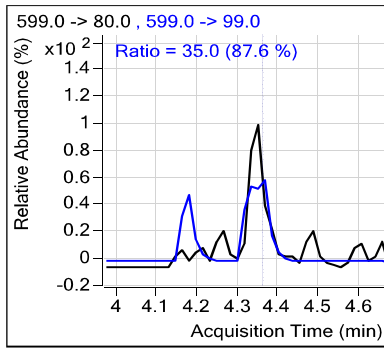
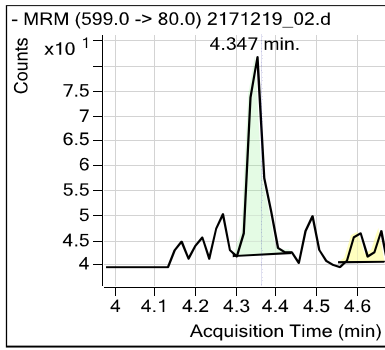


Target Compound FOSA-I



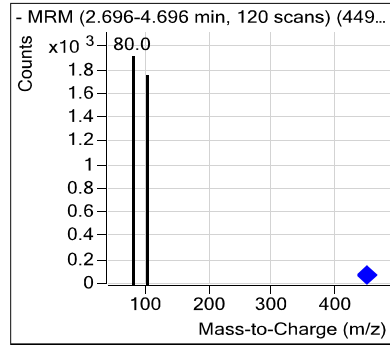
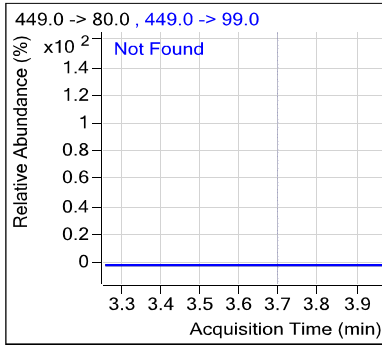
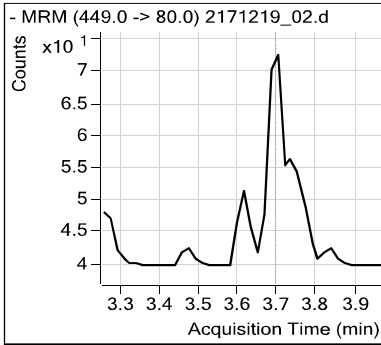
Target Compound LPFDS

Quantitative Analysis Sample Report

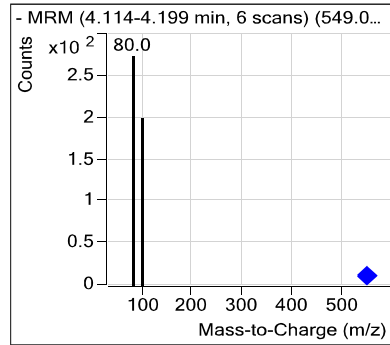
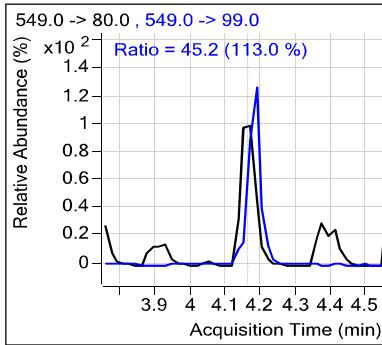
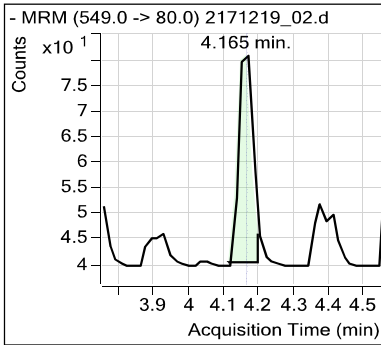


Quantitative Analysis Sample Report

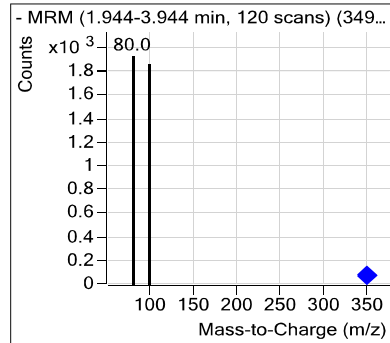
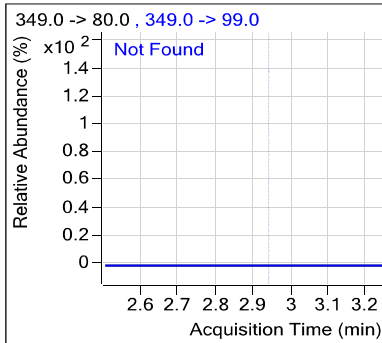
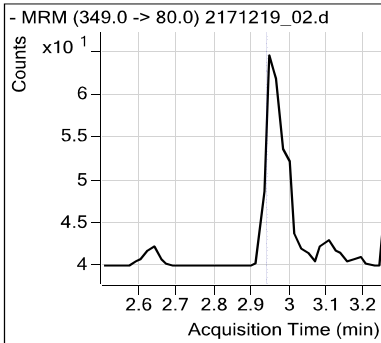
Target Compound LPFHpS



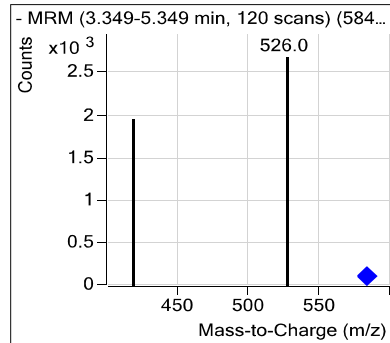
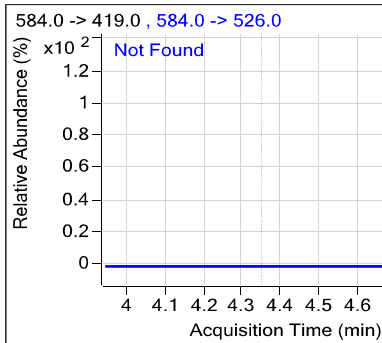
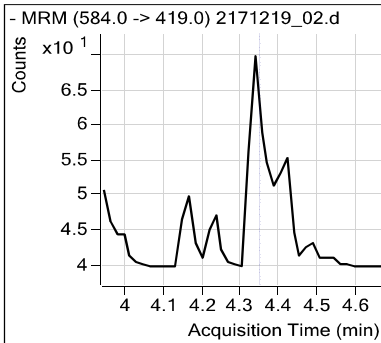
Target Compound LPFNS



Target Compound LPFPeS

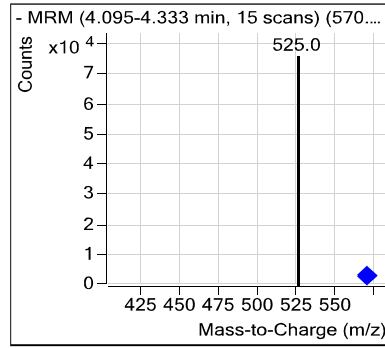
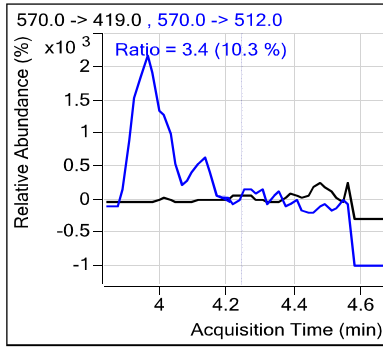
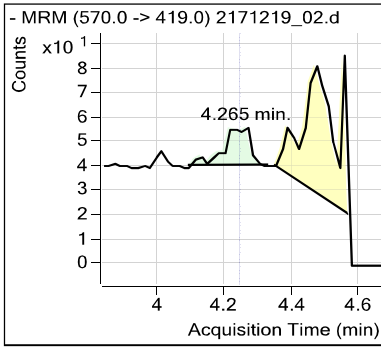


Target Compound NEtFOSAA



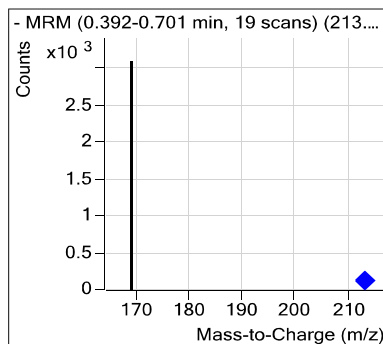
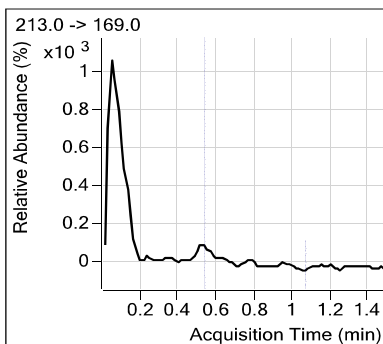
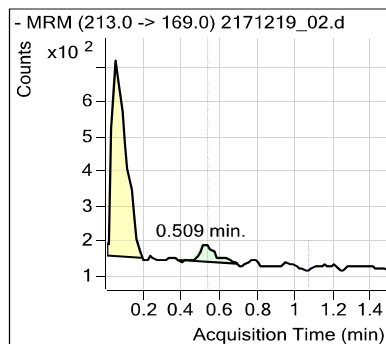
Target Compound NMeFOSAA

Quantitative Analysis Sample Report

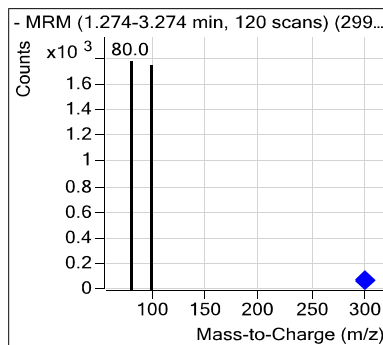
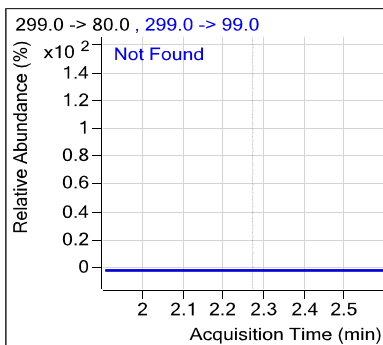
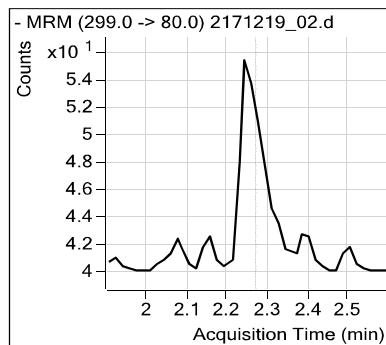


Quantitative Analysis Sample Report

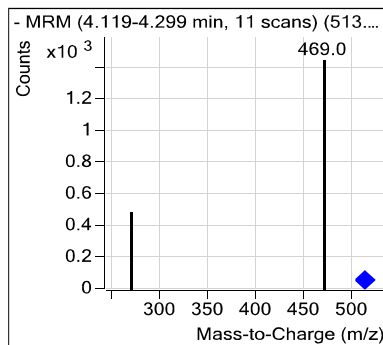
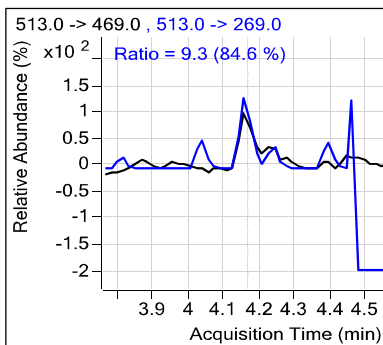
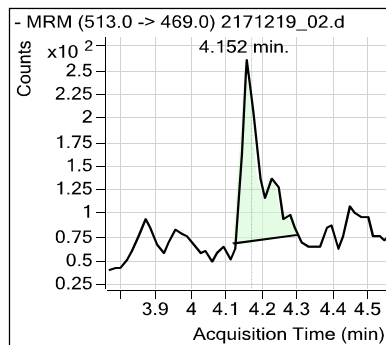
Target Compound PFBA



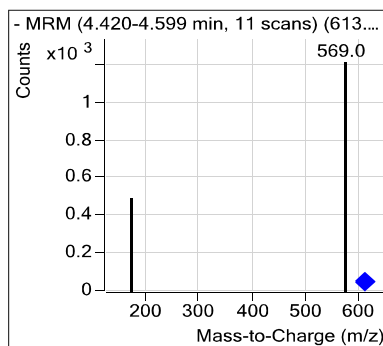
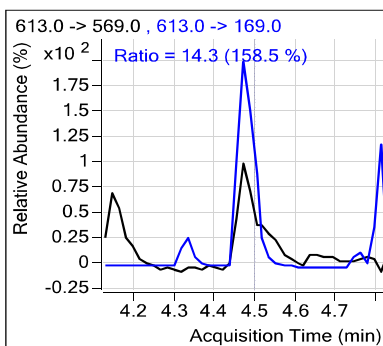
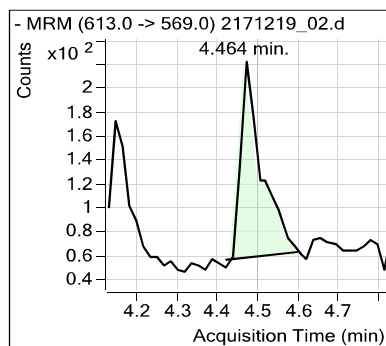
Target Compound PFBS



Target Compound PFDA

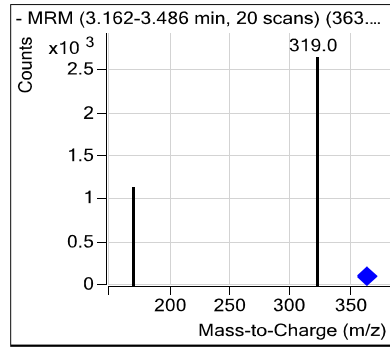
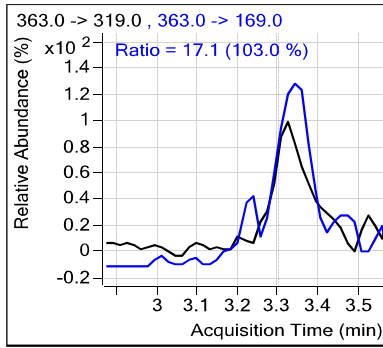
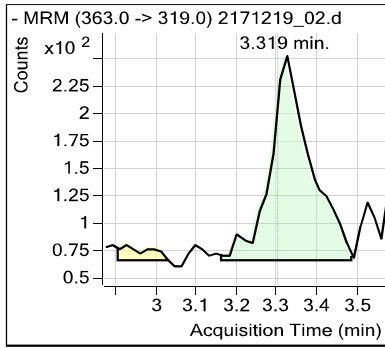


Target Compound PFDaA



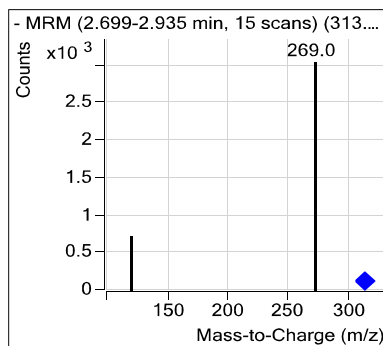
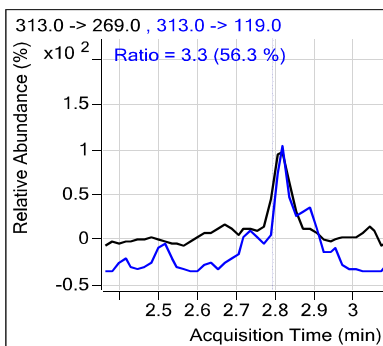
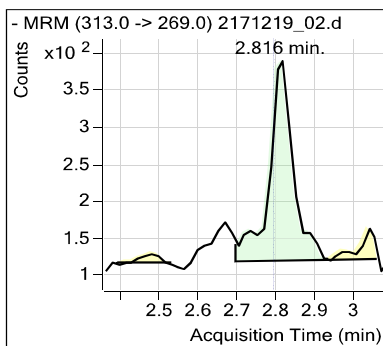
Target Compound PFHpA

Quantitative Analysis Sample Report

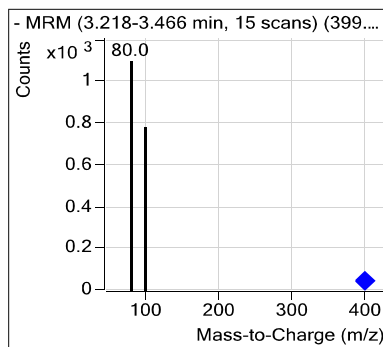
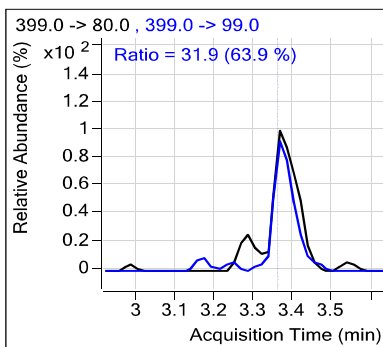
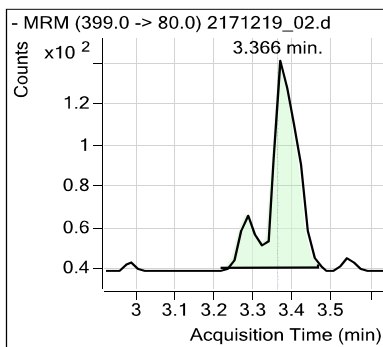


Quantitative Analysis Sample Report

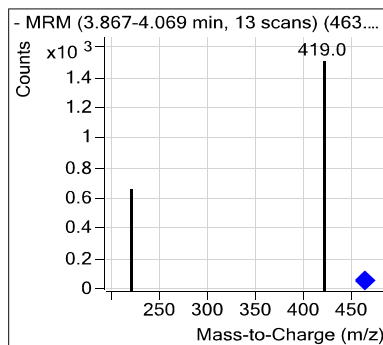
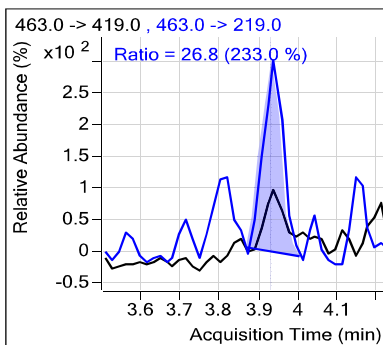
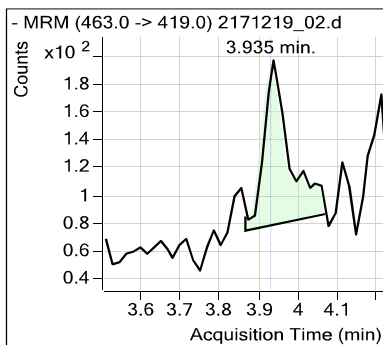
Target Compound PFHxA



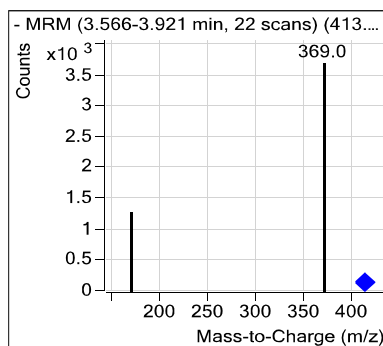
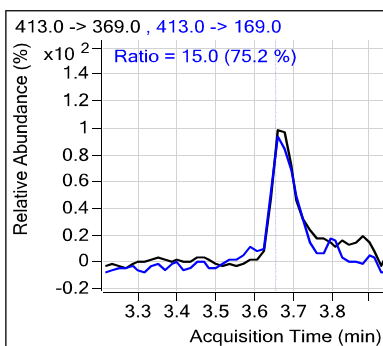
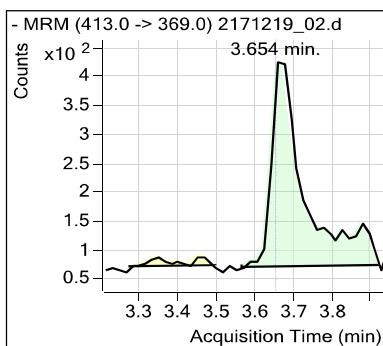
Target Compound PFHxS



Target Compound PFNA

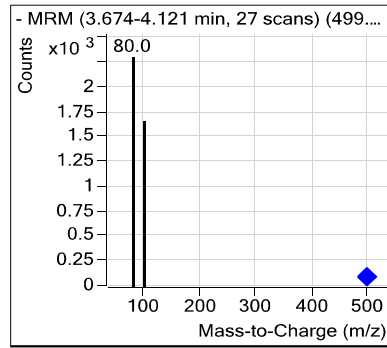
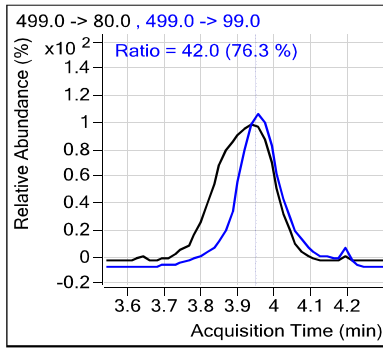
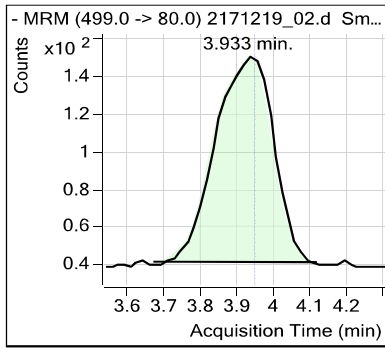


Target Compound PFOA



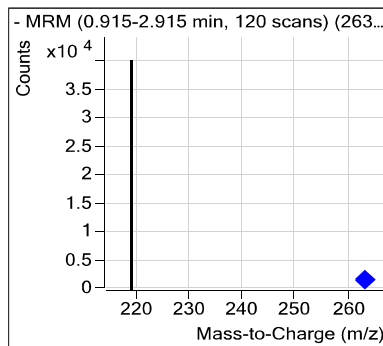
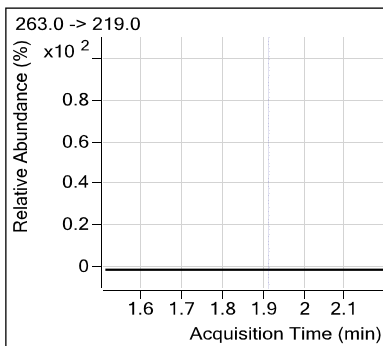
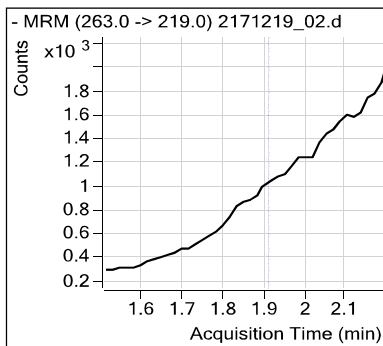
Target Compound PFOS

Quantitative Analysis Sample Report

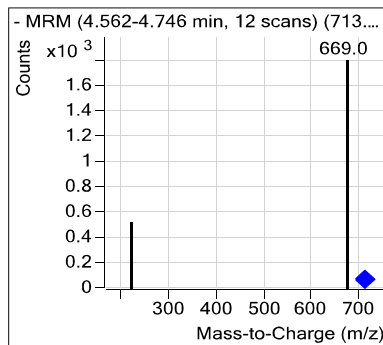
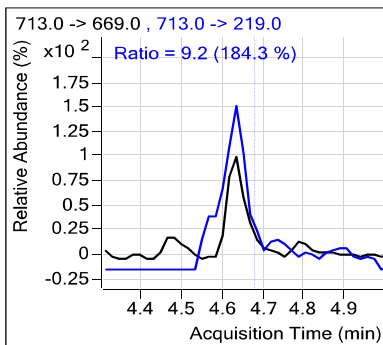
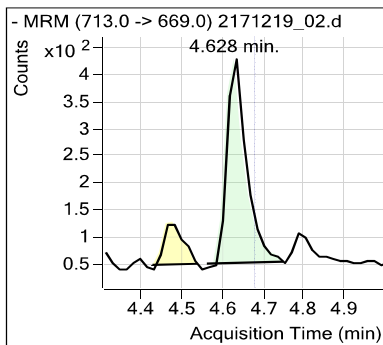


Quantitative Analysis Sample Report

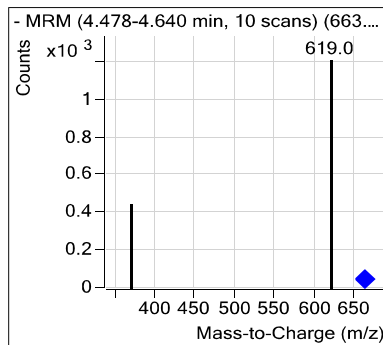
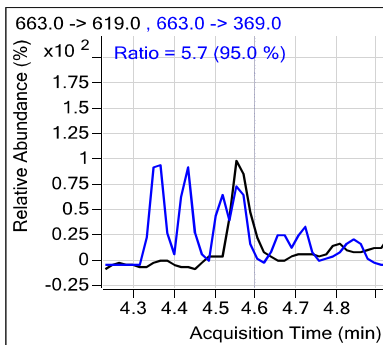
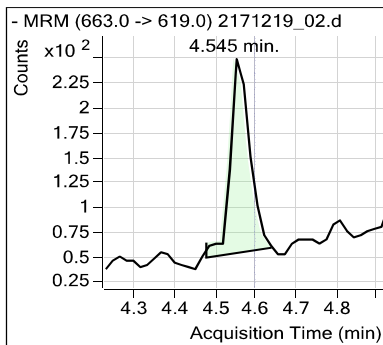
Target Compound PFPeA



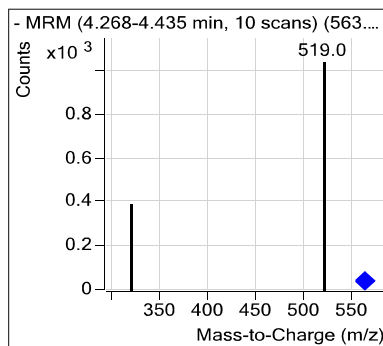
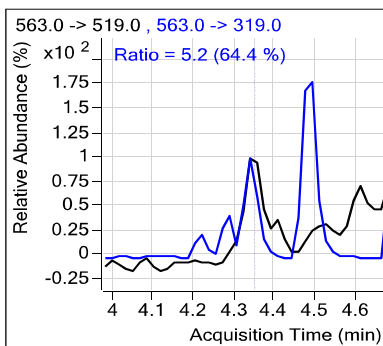
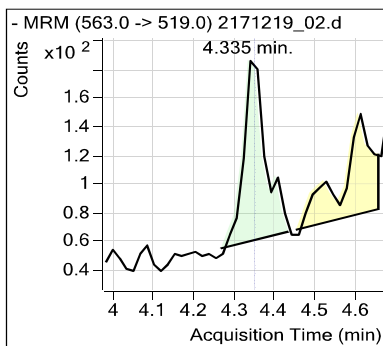
Target Compound PFTeDA



Target Compound PFTrDA



Target Compound PFUdA



Form 5E

Tunes

Instrument Name LCMS
 MS Model G6460A
 Tune Date & Time 12:16:17 08:52:50
 Data Path D:\MassHunter\Tune\QQQ\G6460A\tunes.tune.xml
 Ion Source ESI+Agilent Jet Stream
 Ionization Mode ESI+Agilent Jet Stream

Source Parameters

Parameter	Value
Gas Temp	300
Gas Flow	10
Nebulizer	15
Capillary	4000
Nozzle Voltage	1500
Sheath Gas Temp	250
Sheath Gas Flow	7

Positive Results

Analyzer: MS1 Polarity: Positive Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.03	118.09	0.14	-0.06	Pass	0.70	0.70	0.14	0.00	Pass	246398	0	Pass
322.03	322.05	0.14	-0.02	Pass	0.69	0.70	0.14	-0.01	Pass	126494	0	Pass
622.02	622.03	0.14	-0.01	Pass	0.69	0.70	0.14	-0.01	Pass	181321	0	Pass
922.03	922.01	0.14	0.02	Pass	0.69	0.70	0.14	-0.01	Pass	160536	0	Pass
1521.99	1521.97	0.14	0.02	Pass	0.67	0.70	0.14	-0.03	Pass	33893	0	Pass
2121.90	2121.93	0.14	-0.03	Pass	0.67	0.70	0.14	-0.03	Pass	13799	0	Pass

Analyzer: MS2 Polarity: Positive Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.11	118.09	0.14	0.02	Pass	0.68	0.70	0.14	-0.02	Pass	287401	0	Pass
322.06	322.05	0.14	0.01	Pass	0.69	0.70	0.14	-0.01	Pass	123104	0	Pass
622.02	622.03	0.14	-0.01	Pass	0.69	0.70	0.14	-0.01	Pass	170759	0	Pass
922.00	922.01	0.14	-0.01	Pass	0.69	0.70	0.14	-0.01	Pass	277749	0	Pass
1521.98	1521.97	0.14	0.01	Pass	0.69	0.70	0.14	-0.01	Pass	78114	0	Pass
2121.91	2121.93	0.14	-0.02	Pass	0.74	0.70	0.14	0.04	Pass	152354	0	Pass

Analyzer: MS1 Polarity: Positive Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.03	118.09	0.30	-0.06	Pass	1.21	1.20	0.60	0.01	Pass	302417	0	Pass
321.88	322.05	0.30	-0.17	Pass	1.40	1.20	0.60	0.20	Pass	172672	0	Pass
621.95	622.03	0.30	-0.08	Pass	1.20	1.20	0.60	0.00	Pass	270308	0	Pass
921.91	922.01	0.30	-0.10	Pass	1.18	1.20	0.60	-0.02	Pass	273475	0	Pass
1521.86	1521.97	0.30	-0.11	Pass	1.16	1.20	0.60	-0.04	Pass	110998	0	Pass
2121.81	2121.93	0.30	-0.12	Pass	1.19	1.20	0.60	-0.01	Pass	75571	0	Pass

Analyzer: MS2 Polarity: Positive Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.11	118.09	0.30	0.02	Pass	1.13	1.20	0.60	-0.07	Pass	359613	0	Pass
321.95	322.05	0.30	-0.10	Pass	1.36	1.20	0.60	0.16	Pass	207513	0	Pass
621.93	622.03	0.30	-0.10	Pass	1.25	1.20	0.60	0.05	Pass	256010	0	Pass
921.88	922.01	0.30	-0.13	Pass	1.30	1.20	0.60	0.10	Pass	393853	0	Pass
1521.97	1521.97	0.30	0.00	Pass	1.08	1.20	0.60	-0.12	Pass	220174	0	Pass
2121.88	2121.93	0.30	-0.05	Pass	1.25	1.20	0.60	0.05	Pass	261978	0	Pass

Analyzer: MS1 Polarity: Positive Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
117.94	118.09	0.50	-0.15	Pass	2.42	2.50	1.25	-0.08	Pass	430618	0	Pass
321.84	322.05	0.50	-0.21	Pass	2.58	2.50	1.25	0.08	Pass	251765	0	Pass
621.93	622.03	0.50	-0.10	Pass	2.46	2.50	1.25	-0.04	Pass	354416	0	Pass
921.91	922.01	0.50	-0.10	Pass	2.43	2.50	1.25	-0.07	Pass	404796	0	Pass
1521.84	1521.97	0.50	-0.13	Pass	2.38	2.50	1.25	-0.12	Pass	210458	0	Pass
2121.84	2121.93	0.50	-0.09	Pass	2.45	2.50	1.25	-0.05	Pass	170693	0	Pass

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Analyzer: MS2 Polarity: Positive Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.00	118.09	0.50	-0.09	Pass	2.48	2.50	1.25	-0.02	Pass	490885	0	Pass
321.87	322.05	0.50	-0.18	Pass	2.54	2.50	1.25	0.04	Pass	332745	0	Pass
621.91	622.03	0.50	-0.12	Pass	2.56	2.50	1.25	0.06	Pass	382593	0	Pass
921.83	922.01	0.50	-0.18	Pass	2.65	2.50	1.25	0.15	Pass	586353	0	Pass
1522.08	1521.97	0.50	0.11	Pass	2.22	2.50	1.25	-0.28	Pass	418503	0	Pass
2122.06	2121.93	0.50	0.13	Pass	2.32	2.50	1.25	-0.18	Pass	530540	0	Pass

Negative Results

Analyzer: MS1 Polarity: Negative Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.90	112.99	0.14	-0.09	Pass	0.78	0.70	0.14	0.08	Pass	64645	0	Pass
301.94	302.00	0.14	-0.06	Pass	0.82	0.70	0.14	0.12	Pass	99303	0	Pass
601.94	601.98	0.14	-0.04	Pass	0.78	0.70	0.14	0.08	Pass	197311	0	Pass
1033.99	1033.99	0.14	0.00	Pass	0.73	0.70	0.14	0.03	Pass	152160	0	Pass
1633.92	1633.95	0.14	-0.03	Pass	0.71	0.70	0.14	0.01	Pass	224896	0	Pass
2233.95	2233.91	0.14	0.04	Pass	0.76	0.70	0.14	0.06	Pass	59792	0	Pass

Analyzer: MS2 Polarity: Negative Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
113.01	112.99	0.14	0.02	Pass	0.70	0.70	0.14	0.00	Pass	124674	0	Pass
301.99	302.00	0.14	-0.01	Pass	0.70	0.70	0.14	0.00	Pass	160768	0	Pass
601.97	601.98	0.14	-0.01	Pass	0.71	0.70	0.14	0.01	Pass	325298	0	Pass
1033.98	1033.99	0.14	-0.01	Pass	0.71	0.70	0.14	0.01	Pass	328669	0	Pass
1633.91	1633.95	0.14	-0.04	Pass	0.68	0.70	0.14	-0.02	Pass	1091566	0	Pass
2233.81	2233.91	0.14	-0.10	Pass	0.67	0.70	0.14	-0.03	Pass	924669	0	Pass

Analyzer: MS1 Polarity: Negative Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.89	112.99	0.30	-0.10	Pass	1.25	1.20	0.60	0.05	Pass	96324	0	Pass
301.89	302.00	0.30	-0.11	Pass	1.39	1.20	0.60	0.19	Pass	143116	0	Pass
601.92	601.98	0.30	-0.06	Pass	1.35	1.20	0.60	0.15	Pass	317500	0	Pass
1033.92	1033.99	0.30	-0.07	Pass	1.32	1.20	0.60	0.12	Pass	327084	0	Pass
1633.93	1633.95	0.30	-0.02	Pass	1.26	1.20	0.60	0.06	Pass	741889	0	Pass
2233.93	2233.91	0.30	0.02	Pass	1.29	1.20	0.60	0.09	Pass	628222	0	Pass

Analyzer: MS2 Polarity: Negative Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.97	112.99	0.30	-0.02	Pass	1.20	1.20	0.60	0.00	Pass	149184	0	Pass
301.91	302.00	0.30	-0.09	Pass	1.32	1.20	0.60	0.12	Pass	200817	0	Pass
601.83	601.98	0.30	-0.15	Pass	1.40	1.20	0.60	0.20	Pass	455187	0	Pass
1033.86	1033.99	0.30	-0.13	Pass	1.32	1.20	0.60	0.12	Pass	655944	0	Pass
1633.82	1633.95	0.30	-0.13	Pass	1.35	1.20	0.60	0.15	Pass	1982017	0	Pass
2233.88	2233.91	0.30	-0.03	Pass	1.24	1.20	0.60	0.04	Pass	1885278	0	Pass

Analyzer: MS1 Polarity: Negative Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.80	112.99	0.50	-0.19	Pass	2.36	2.50	1.25	-0.14	Pass	150762	0	Pass
301.89	302.00	0.50	-0.11	Pass	2.59	2.50	1.25	0.09	Pass	184516	0	Pass
601.91	601.98	0.50	-0.07	Pass	2.55	2.50	1.25	0.05	Pass	419994	0	Pass
1033.88	1033.99	0.50	-0.11	Pass	2.49	2.50	1.25	-0.01	Pass	490738	0	Pass
1633.87	1633.95	0.50	-0.08	Pass	2.42	2.50	1.25	-0.08	Pass	1314349	0	Pass
2233.87	2233.91	0.50	-0.04	Pass	2.46	2.50	1.25	-0.04	Pass	1310571	0	Pass

Analyzer: MS2 Polarity: Negative Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.90	112.99	0.50	-0.09	Pass	2.61	2.50	1.25	0.11	Pass	187466	0	Pass
301.84	302.00	0.50	-0.16	Pass	2.73	2.50	1.25	0.23	Pass	255090	0	Pass
601.75	601.98	0.50	-0.23	Pass	2.85	2.50	1.25	0.35	Pass	588108	0	Pass
1033.81	1033.99	0.50	-0.18	Pass	2.75	2.50	1.25	0.25	Pass	951414	0	Pass
1633.86	1633.95	0.50	-0.09	Pass	2.64	2.50	1.25	0.14	Pass	3039547	0	Pass
2233.96	2233.91	0.50	0.05	Pass	2.55	2.50	1.25	0.05	Pass	3903999	0	Pass

Instrument Name LCMS
 MS Model G6460A
 Tune Date & Time 12:18:17 08:17:23
 Data Path D:\MassHunter\Tune\QQQ\G6460A\tunes.tune.xml
 Ion Source ESI+Agilent Jet Stream
 Ionization Mode ESI+Agilent Jet Stream

Source Parameters

Parameter	Value
Gas Temp	300
Gas Flow	10
Nebulizer	15
Capillary	4000
Nozzle Voltage	1500
Sheath Gas Temp	250
Sheath Gas Flow	7

Positive Results

Analyzer: MS1 Polarity: Positive Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.03	118.09	0.14	-0.06	Pass	0.70	0.70	0.14	0.00	Pass	242215	0	Pass
322.03	322.05	0.14	-0.02	Pass	0.71	0.70	0.14	0.01	Pass	126723	0	Pass
622.01	622.03	0.14	-0.02	Pass	0.70	0.70	0.14	0.00	Pass	176444	0	Pass
922.02	922.01	0.14	0.01	Pass	0.70	0.70	0.14	0.00	Pass	149066	0	Pass
1521.97	1521.97	0.14	0.00	Pass	0.68	0.70	0.14	-0.02	Pass	31857	0	Pass
2121.88	2121.93	0.14	-0.05	Pass	0.69	0.70	0.14	-0.01	Pass	13118	0	Pass

Analyzer: MS2 Polarity: Positive Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.12	118.09	0.14	0.03	Pass	0.67	0.70	0.14	-0.03	Pass	282290	0	Pass
322.08	322.05	0.14	0.03	Pass	0.67	0.70	0.14	-0.03	Pass	122166	0	Pass
622.05	622.03	0.14	0.02	Pass	0.67	0.70	0.14	-0.03	Pass	162470	0	Pass
922.02	922.01	0.14	0.01	Pass	0.68	0.70	0.14	-0.02	Pass	261238	0	Pass
1521.99	1521.97	0.14	0.02	Pass	0.67	0.70	0.14	-0.03	Pass	70523	0	Pass
2121.93	2121.93	0.14	0.00	Pass	0.74	0.70	0.14	0.04	Pass	137443	0	Pass

Analyzer: MS1 Polarity: Positive Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.03	118.09	0.30	-0.06	Pass	1.21	1.20	0.60	0.01	Pass	295910	0	Pass
321.88	322.05	0.30	-0.17	Pass	1.39	1.20	0.60	0.19	Pass	179252	0	Pass
621.95	622.03	0.30	-0.08	Pass	1.18	1.20	0.60	-0.02	Pass	270200	0	Pass
921.90	922.01	0.30	-0.11	Pass	1.18	1.20	0.60	-0.02	Pass	260515	0	Pass
1521.83	1521.97	0.30	-0.14	Pass	1.16	1.20	0.60	-0.04	Pass	101334	0	Pass
2121.82	2121.93	0.30	-0.11	Pass	1.15	1.20	0.60	-0.05	Pass	70254	0	Pass

Analyzer: MS2 Polarity: Positive Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.13	118.09	0.30	0.04	Pass	1.13	1.20	0.60	-0.07	Pass	350226	0	Pass
321.96	322.05	0.30	-0.09	Pass	1.35	1.20	0.60	0.15	Pass	200772	0	Pass
621.96	622.03	0.30	-0.07	Pass	1.25	1.20	0.60	0.05	Pass	239324	0	Pass
921.89	922.01	0.30	-0.12	Pass	1.28	1.20	0.60	0.08	Pass	372935	0	Pass
1521.96	1521.97	0.30	-0.01	Pass	1.11	1.20	0.60	-0.09	Pass	201153	0	Pass
2121.92	2121.93	0.30	-0.01	Pass	1.22	1.20	0.60	0.02	Pass	243725	0	Pass

Analyzer: MS1 Polarity: Positive Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
117.93	118.09	0.50	-0.16	Pass	2.43	2.50	1.25	-0.07	Pass	413683	0	Pass
321.84	322.05	0.50	-0.21	Pass	2.59	2.50	1.25	0.09	Pass	248177	0	Pass
621.90	622.03	0.50	-0.13	Pass	2.49	2.50	1.25	-0.01	Pass	335201	0	Pass
921.91	922.01	0.50	-0.10	Pass	2.41	2.50	1.25	-0.09	Pass	392604	0	Pass
1521.84	1521.97	0.50	-0.13	Pass	2.38	2.50	1.25	-0.12	Pass	196469	0	Pass
2121.82	2121.93	0.50	-0.11	Pass	2.45	2.50	1.25	-0.05	Pass	158625	0	Pass

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Analyzer: MS2 Polarity: Positive Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.01	118.09	0.50	-0.08	Pass	2.48	2.50	1.25	-0.02	Pass	468610	0	Pass
321.87	322.05	0.50	-0.18	Pass	2.57	2.50	1.25	0.07	Pass	314871	0	Pass
621.93	622.03	0.50	-0.10	Pass	2.54	2.50	1.25	0.04	Pass	370045	0	Pass
921.84	922.01	0.50	-0.17	Pass	2.67	2.50	1.25	0.17	Pass	540629	0	Pass
1522.10	1521.97	0.50	0.13	Pass	2.21	2.50	1.25	-0.29	Pass	401000	0	Pass
2122.11	2121.93	0.50	0.18	Pass	2.37	2.50	1.25	-0.13	Pass	487410	0	Pass

Negative Results

Analyzer: MS1 Polarity: Negative Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.90	112.99	0.14	-0.09	Pass	0.77	0.70	0.14	0.07	Pass	76091	0	Pass
301.91	302.00	0.14	-0.09	Pass	0.82	0.70	0.14	0.12	Pass	115471	0	Pass
601.94	601.98	0.14	-0.04	Pass	0.75	0.70	0.14	0.05	Pass	228495	0	Pass
1033.96	1033.99	0.14	-0.03	Pass	0.72	0.70	0.14	0.02	Pass	177350	0	Pass
1633.91	1633.95	0.14	-0.04	Pass	0.70	0.70	0.14	0.00	Pass	260508	0	Pass
2233.92	2233.91	0.14	0.01	Pass	0.75	0.70	0.14	0.05	Pass	63221	0	Pass

Analyzer: MS2 Polarity: Negative Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
113.02	112.99	0.14	0.03	Pass	0.71	0.70	0.14	0.01	Pass	131780	0	Pass
301.99	302.00	0.14	-0.01	Pass	0.69	0.70	0.14	-0.01	Pass	170540	0	Pass
601.98	601.98	0.14	0.00	Pass	0.70	0.70	0.14	0.00	Pass	331800	0	Pass
1033.99	1033.99	0.14	0.00	Pass	0.68	0.70	0.14	-0.02	Pass	330475	0	Pass
1633.94	1633.95	0.14	-0.01	Pass	0.66	0.70	0.14	-0.04	Pass	1092178	0	Pass
2233.85	2233.91	0.14	-0.06	Pass	0.64	0.70	0.14	-0.06	Pass	934444	0	Pass

Analyzer: MS1 Polarity: Negative Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.88	112.99	0.30	-0.11	Pass	1.26	1.20	0.60	0.06	Pass	113062	0	Pass
301.88	302.00	0.30	-0.12	Pass	1.39	1.20	0.60	0.19	Pass	163390	0	Pass
601.92	601.98	0.30	-0.06	Pass	1.36	1.20	0.60	0.16	Pass	343291	0	Pass
1033.91	1033.99	0.30	-0.08	Pass	1.31	1.20	0.60	0.11	Pass	374627	0	Pass
1633.92	1633.95	0.30	-0.03	Pass	1.22	1.20	0.60	0.02	Pass	850110	0	Pass
2233.93	2233.91	0.30	0.02	Pass	1.23	1.20	0.60	0.03	Pass	717262	0	Pass

Analyzer: MS2 Polarity: Negative Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.99	112.99	0.30	0.00	Pass	1.18	1.20	0.60	-0.02	Pass	167385	0	Pass
301.91	302.00	0.30	-0.09	Pass	1.32	1.20	0.60	0.12	Pass	205242	0	Pass
601.84	601.98	0.30	-0.14	Pass	1.38	1.20	0.60	0.18	Pass	461543	0	Pass
1033.89	1033.99	0.30	-0.10	Pass	1.32	1.20	0.60	0.12	Pass	668841	0	Pass
1633.84	1633.95	0.30	-0.11	Pass	1.32	1.20	0.60	0.12	Pass	2063997	0	Pass
2233.90	2233.91	0.30	-0.01	Pass	1.22	1.20	0.60	0.02	Pass	1944138	0	Pass

Analyzer: MS1 Polarity: Negative Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.80	112.99	0.50	-0.19	Pass	2.37	2.50	1.25	-0.13	Pass	173292	0	Pass
301.88	302.00	0.50	-0.12	Pass	2.63	2.50	1.25	0.13	Pass	206867	0	Pass
601.92	601.98	0.50	-0.06	Pass	2.56	2.50	1.25	0.06	Pass	456247	0	Pass
1033.88	1033.99	0.50	-0.11	Pass	2.50	2.50	1.25	0.00	Pass	547781	0	Pass
1633.89	1633.95	0.50	-0.06	Pass	2.40	2.50	1.25	-0.10	Pass	1496026	0	Pass
2233.85	2233.91	0.50	-0.06	Pass	2.43	2.50	1.25	-0.07	Pass	1450180	0	Pass

Analyzer: MS2 Polarity: Negative Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.89	112.99	0.50	-0.10	Pass	2.60	2.50	1.25	0.10	Pass	212192	0	Pass
301.84	302.00	0.50	-0.16	Pass	2.73	2.50	1.25	0.23	Pass	266920	0	Pass
601.77	601.98	0.50	-0.21	Pass	2.83	2.50	1.25	0.33	Pass	623084	0	Pass
1033.83	1033.99	0.50	-0.16	Pass	2.75	2.50	1.25	0.25	Pass	999599	0	Pass
1633.88	1633.95	0.50	-0.07	Pass	2.62	2.50	1.25	0.12	Pass	3252420	0	Pass
2233.96	2233.91	0.50	0.05	Pass	2.55	2.50	1.25	0.05	Pass	4026665	0	Pass

Instrument Name LCMS
MS Model G6460A
Tune Date & Time 12:19:17 08:42:42
Data Path D:\MassHunter\Tune\QQQ\G6460A\tunes.tune.xml
Ion Source ESI+Agilent Jet Stream
Ionization Mode ESI+Agilent Jet Stream

Source Parameters

Parameter	Value
Gas Temp	300
Gas Flow	10
Nebulizer	15
Capillary	4000
Nozzle Voltage	1500
Sheath Gas Temp	250
Sheath Gas Flow	7

Positive Results

Analyzer: MS1 Polarity: Positive Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.03	118.09	0.14	-0.06	Pass	0.70	0.70	0.14	0.00	Pass	252480	0	Pass
322.03	322.05	0.14	-0.02	Pass	0.70	0.70	0.14	0.00	Pass	131257	0	Pass
622.01	622.03	0.14	-0.02	Pass	0.69	0.70	0.14	-0.01	Pass	176193	0	Pass
922.02	922.01	0.14	0.01	Pass	0.70	0.70	0.14	0.00	Pass	150193	0	Pass
1521.97	1521.97	0.14	0.00	Pass	0.69	0.70	0.14	-0.01	Pass	31794	0	Pass
2121.88	2121.93	0.14	-0.05	Pass	0.69	0.70	0.14	-0.01	Pass	12926	0	Pass

Analyzer: MS2 Polarity: Positive Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.12	118.09	0.14	0.03	Pass	0.66	0.70	0.14	-0.04	Pass	295549	0	Pass
322.08	322.05	0.14	0.03	Pass	0.68	0.70	0.14	-0.02	Pass	122177	0	Pass
622.05	622.03	0.14	0.02	Pass	0.68	0.70	0.14	-0.02	Pass	161787	0	Pass
922.04	922.01	0.14	0.03	Pass	0.67	0.70	0.14	-0.03	Pass	258417	0	Pass
1522.00	1521.97	0.14	0.03	Pass	0.67	0.70	0.14	-0.03	Pass	68355	0	Pass
2121.94	2121.93	0.14	0.01	Pass	0.72	0.70	0.14	0.02	Pass	137071	0	Pass

Analyzer: MS1 Polarity: Positive Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.03	118.09	0.30	-0.06	Pass	1.21	1.20	0.60	0.01	Pass	306514	0	Pass
321.88	322.05	0.30	-0.17	Pass	1.41	1.20	0.60	0.21	Pass	183684	0	Pass
621.92	622.03	0.30	-0.11	Pass	1.21	1.20	0.60	0.01	Pass	272017	0	Pass
921.89	922.01	0.30	-0.12	Pass	1.20	1.20	0.60	0.00	Pass	261101	0	Pass
1521.83	1521.97	0.30	-0.14	Pass	1.16	1.20	0.60	-0.04	Pass	105888	0	Pass
2121.80	2121.93	0.30	-0.13	Pass	1.18	1.20	0.60	-0.02	Pass	72430	0	Pass

Analyzer: MS2 Polarity: Positive Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.14	118.09	0.30	0.05	Pass	1.14	1.20	0.60	-0.06	Pass	357245	0	Pass
321.96	322.05	0.30	-0.09	Pass	1.35	1.20	0.60	0.15	Pass	203996	0	Pass
621.96	622.03	0.30	-0.07	Pass	1.24	1.20	0.60	0.04	Pass	243192	0	Pass
921.90	922.01	0.30	-0.11	Pass	1.28	1.20	0.60	0.08	Pass	376343	0	Pass
1521.98	1521.97	0.30	0.01	Pass	1.13	1.20	0.60	-0.07	Pass	194799	0	Pass
2121.93	2121.93	0.30	0.00	Pass	1.22	1.20	0.60	0.02	Pass	240467	0	Pass

Analyzer: MS1 Polarity: Positive Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
117.93	118.09	0.50	-0.16	Pass	2.42	2.50	1.25	-0.08	Pass	426516	0	Pass
321.82	322.05	0.50	-0.23	Pass	2.71	2.50	1.25	0.21	Pass	252629	0	Pass
621.92	622.03	0.50	-0.11	Pass	2.46	2.50	1.25	-0.04	Pass	343502	0	Pass
921.91	922.01	0.50	-0.10	Pass	2.43	2.50	1.25	-0.07	Pass	384183	0	Pass
1521.83	1521.97	0.50	-0.14	Pass	2.40	2.50	1.25	-0.10	Pass	195603	0	Pass
2121.84	2121.93	0.50	-0.09	Pass	2.38	2.50	1.25	-0.12	Pass	163141	0	Pass

QQQ Check Tune Report



Analyzer: MS2 Polarity: Positive Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
118.00	118.09	0.50	-0.09	Pass	2.48	2.50	1.25	-0.02	Pass	491209	0	Pass
321.88	322.05	0.50	-0.17	Pass	2.63	2.50	1.25	0.13	Pass	329198	0	Pass
621.93	622.03	0.50	-0.10	Pass	2.56	2.50	1.25	0.06	Pass	375185	0	Pass
921.84	922.01	0.50	-0.17	Pass	2.66	2.50	1.25	0.16	Pass	540234	0	Pass
1522.11	1521.97	0.50	0.14	Pass	2.21	2.50	1.25	-0.29	Pass	386514	0	Pass
2122.08	2121.93	0.50	0.15	Pass	2.33	2.50	1.25	-0.17	Pass	494101	0	Pass

Negative Results

Analyzer: MS1 Polarity: Negative Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.90	112.99	0.14	-0.09	Pass	0.78	0.70	0.14	0.08	Pass	73150	0	Pass
301.92	302.00	0.14	-0.08	Pass	0.82	0.70	0.14	0.12	Pass	113488	0	Pass
601.94	601.98	0.14	-0.04	Pass	0.78	0.70	0.14	0.08	Pass	220917	0	Pass
1033.98	1033.99	0.14	-0.01	Pass	0.72	0.70	0.14	0.02	Pass	173635	0	Pass
1633.91	1633.95	0.14	-0.04	Pass	0.70	0.70	0.14	0.00	Pass	250432	0	Pass
2233.92	2233.91	0.14	0.01	Pass	0.76	0.70	0.14	0.06	Pass	60538	0	Pass

Analyzer: MS2 Polarity: Negative Width: Unit

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
113.01	112.99	0.14	0.02	Pass	0.70	0.70	0.14	0.00	Pass	134603	0	Pass
301.99	302.00	0.14	-0.01	Pass	0.69	0.70	0.14	-0.01	Pass	170456	0	Pass
601.99	601.98	0.14	0.01	Pass	0.68	0.70	0.14	-0.02	Pass	346824	0	Pass
1033.99	1033.99	0.14	0.00	Pass	0.68	0.70	0.14	-0.02	Pass	324382	0	Pass
1633.95	1633.95	0.14	0.00	Pass	0.66	0.70	0.14	-0.04	Pass	1054855	0	Pass
2233.85	2233.91	0.14	-0.06	Pass	0.64	0.70	0.14	-0.06	Pass	896374	0	Pass

Analyzer: MS1 Polarity: Negative Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.88	112.99	0.30	-0.11	Pass	1.27	1.20	0.60	0.07	Pass	109053	0	Pass
301.89	302.00	0.30	-0.11	Pass	1.40	1.20	0.60	0.20	Pass	160809	0	Pass
601.90	601.98	0.30	-0.08	Pass	1.38	1.20	0.60	0.18	Pass	334163	0	Pass
1033.91	1033.99	0.30	-0.08	Pass	1.33	1.20	0.60	0.13	Pass	352800	0	Pass
1633.91	1633.95	0.30	-0.04	Pass	1.28	1.20	0.60	0.08	Pass	815040	0	Pass
2233.92	2233.91	0.30	0.01	Pass	1.30	1.20	0.60	0.10	Pass	677086	0	Pass

Analyzer: MS2 Polarity: Negative Width: Wide

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.99	112.99	0.30	0.00	Pass	1.18	1.20	0.60	-0.02	Pass	161921	0	Pass
301.91	302.00	0.30	-0.09	Pass	1.30	1.20	0.60	0.10	Pass	213477	0	Pass
601.85	601.98	0.30	-0.13	Pass	1.38	1.20	0.60	0.18	Pass	454356	0	Pass
1033.91	1033.99	0.30	-0.08	Pass	1.29	1.20	0.60	0.09	Pass	653944	0	Pass
1633.84	1633.95	0.30	-0.11	Pass	1.31	1.20	0.60	0.11	Pass	1994905	0	Pass
2233.90	2233.91	0.30	-0.01	Pass	1.22	1.20	0.60	0.02	Pass	1868734	0	Pass

Analyzer: MS1 Polarity: Negative Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.80	112.99	0.50	-0.19	Pass	2.36	2.50	1.25	-0.14	Pass	172363	0	Pass
301.89	302.00	0.50	-0.11	Pass	2.59	2.50	1.25	0.09	Pass	209081	0	Pass
601.91	601.98	0.50	-0.07	Pass	2.54	2.50	1.25	0.04	Pass	457740	0	Pass
1033.86	1033.99	0.50	-0.13	Pass	2.54	2.50	1.25	0.04	Pass	520802	0	Pass
1633.83	1633.95	0.50	-0.12	Pass	2.45	2.50	1.25	-0.05	Pass	1388864	0	Pass
2233.80	2233.91	0.50	-0.11	Pass	2.49	2.50	1.25	-0.01	Pass	1365665	0	Pass

Analyzer: MS2 Polarity: Negative Width: Widest

m/z	m/z Expected	Tolerance	Delta	Result	FWHM	FWHM Expected	Tolerance	Delta	Result	Abundance	Minimum1	Result
112.90	112.99	0.50	-0.09	Pass	2.61	2.50	1.25	0.11	Pass	209776	0	Pass
301.84	302.00	0.50	-0.16	Pass	2.73	2.50	1.25	0.23	Pass	264653	0	Pass
601.77	601.98	0.50	-0.21	Pass	2.81	2.50	1.25	0.31	Pass	622984	0	Pass
1033.85	1033.99	0.50	-0.14	Pass	2.73	2.50	1.25	0.23	Pass	993355	0	Pass
1633.87	1633.95	0.50	-0.08	Pass	2.65	2.50	1.25	0.15	Pass	3178069	0	Pass
2233.99	2233.91	0.50	0.08	Pass	2.49	2.50	1.25	-0.01	Pass	3946733	0	Pass

Form 6E

Calibrations

Quantitative Analysis Calibration Report

Batch Data Path	D:\MassHunter\Data\2171216BCAL\QuantResults\2171219A.batch.bin		
Analysis Time	12/20/2017 8:53 AM	Analyst Name	lcms
Report Time	12/20/2017 8:54 AM	Reporter Name	lcms
Last Calib Update	12/20/2017 8:53 AM	Batch State	Processed

Calibration Info

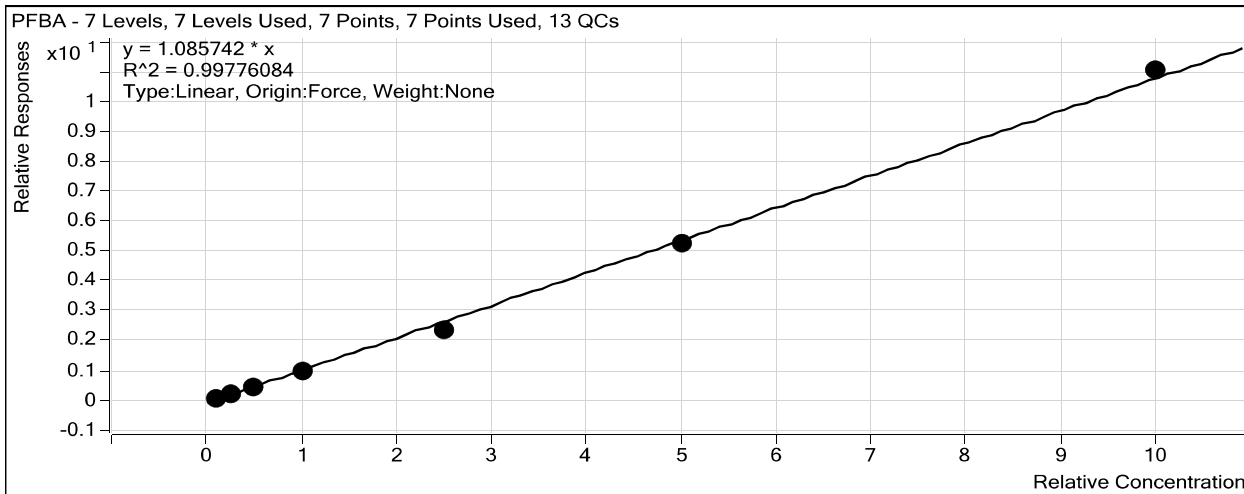
Extracted ISTD MPFBA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	47883	20.0000	2394.1311
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	46500	20.0000	2324.9868
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	46868	20.0000	2343.4037
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	45287	20.0000	2264.3728
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	47122	20.0000	2356.1225
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	43744	20.0000	2187.2047
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	43016	20.0000	2150.7823

Target Compound

PFBA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	3972	2.0000	0.8295
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	10451	5.0000	0.8990
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	21521	10.0000	0.9184
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	42932	20.0000	0.9480
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	111596	50.0000	0.9473
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	229753	100.0000	1.0504
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	475391	200.0000	1.1052



Quantitative Analysis Calibration Report

Extracted ISTD

M5PFPeA

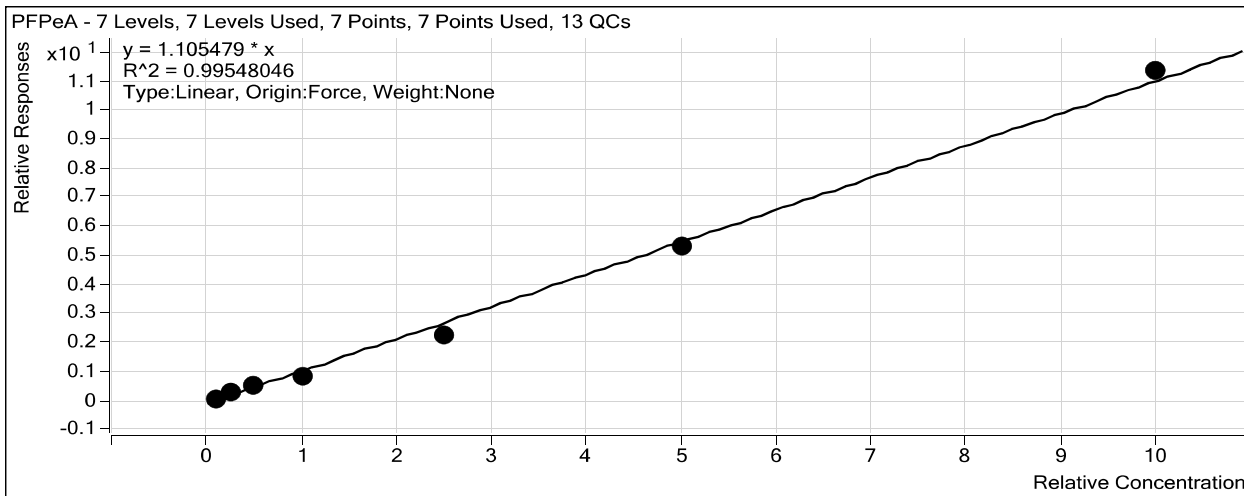
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D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	48386	20.0000	2419.2800
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	46990	20.0000	2349.4982
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	47859	20.0000	2392.9642

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	46599	20.0000	2329.9424
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	48679	20.0000	2433.9330
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	45115	20.0000	2255.7293
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	44074	20.0000	2203.6942

Target Compound

PFPeA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	3941	2.0000	0.8144
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	12213	5.0000	1.0396
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	24766	10.0000	1.0350
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	39274	20.0000	0.8428
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	109110	50.0000	0.8966
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	239705	100.0000	1.0626
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	498968	200.0000	1.1321

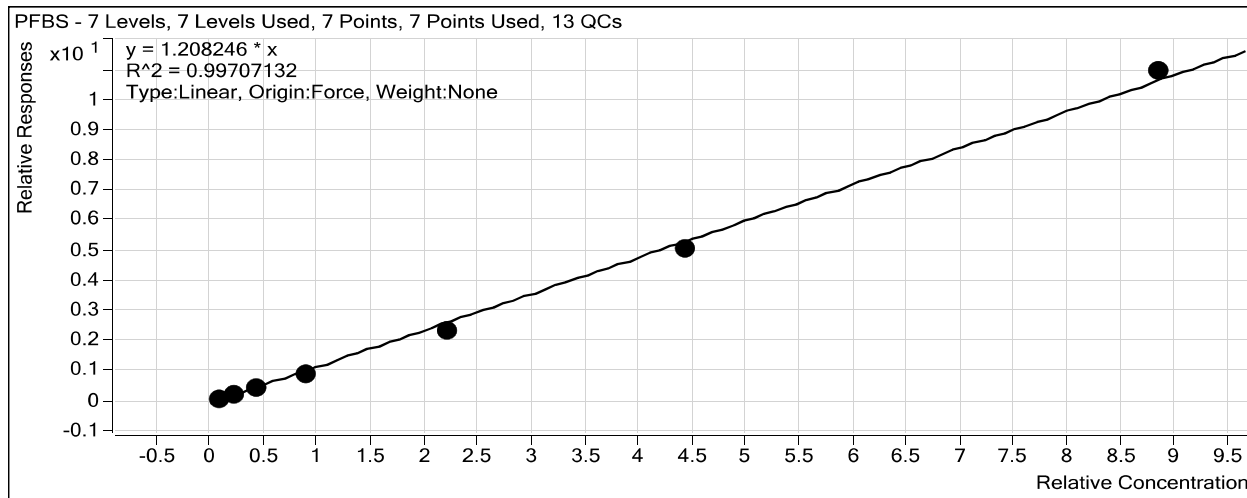


Target Compound

PFBS

Quantitative Analysis Calibration Report

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
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D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	6963	4.4250	0.9606
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	14921	8.8500	1.0226
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	29166	17.7000	1.0291
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	76174	44.2500	1.0598
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	156476	88.5000	1.1461
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	333169	177.0000	1.2355



Extracted ISTD

M3PFBS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	33480	20.0000	1674.0012
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	32764	20.0000	1638.2114
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	32975	20.0000	1648.7479
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	32025	20.0000	1601.2553
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	32485	20.0000	1624.2572
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	30854	20.0000	1542.7032
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	30470	20.0000	1523.5199

Extracted ISTD

M2 4:2 FTS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	4677	20.0000	233.8540

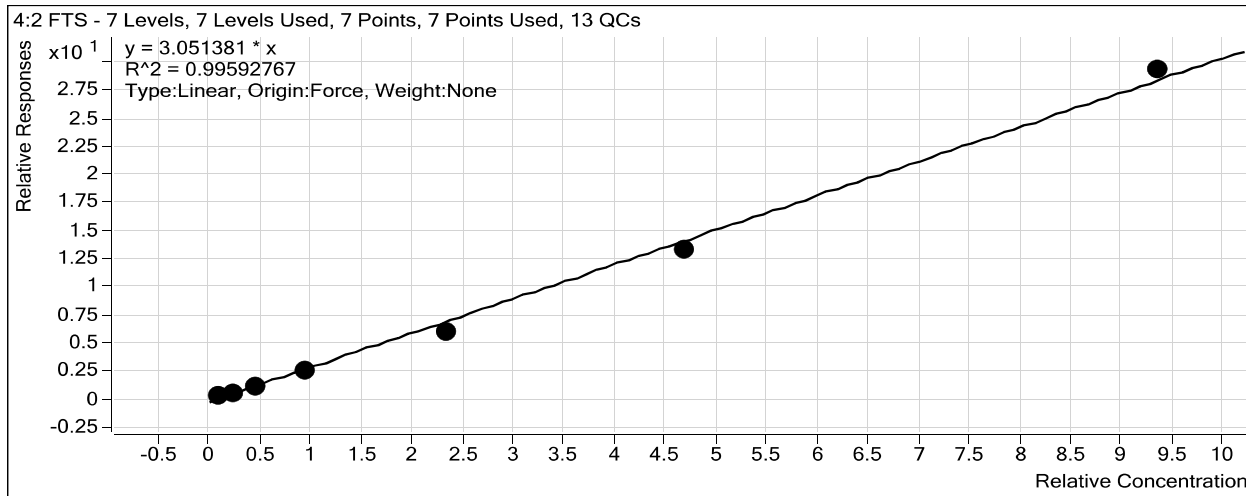
Quantitative Analysis Calibration Report

File Path	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
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D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	4929	20.0000	246.4273
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	4790	20.0000	239.5117
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	4865	20.0000	243.2490
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	4535	20.0000	226.7344
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	4577	20.0000	228.8316

Target Compound *4:2 FTS*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	1214	1.8700	2.7760
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	2761	4.6750	2.6120
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	5876	9.3500	2.5502
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	12250	18.7000	2.7351
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	29131	46.7500	2.5617
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	60842	93.5000	2.8699

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	134026	187.0000	3.1321

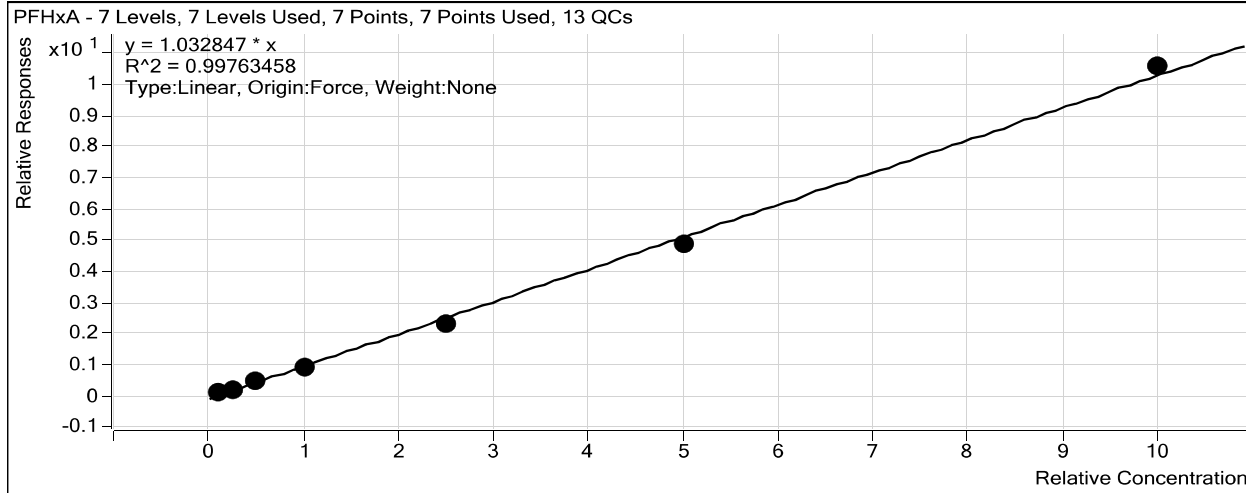


Target Compound *PFHxA*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	8302	2.0000	0.8159
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	21572	5.0000	0.8603

Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	44953	10.0000	0.8982
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	91104	20.0000	0.9275
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	231790	50.0000	0.9277
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	464832	100.0000	0.9786
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	982391	200.0000	1.0545



Extracted *ISTD*

M5PFHxA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	101751	20.0000	5087.5554
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	100302	20.0000	5015.0851
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	100098	20.0000	5004.9040

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	98230	20.0000	4911.5159
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	99938	20.0000	4996.9115
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	94998	20.0000	4749.9239
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	93162	20.0000	4658.1073

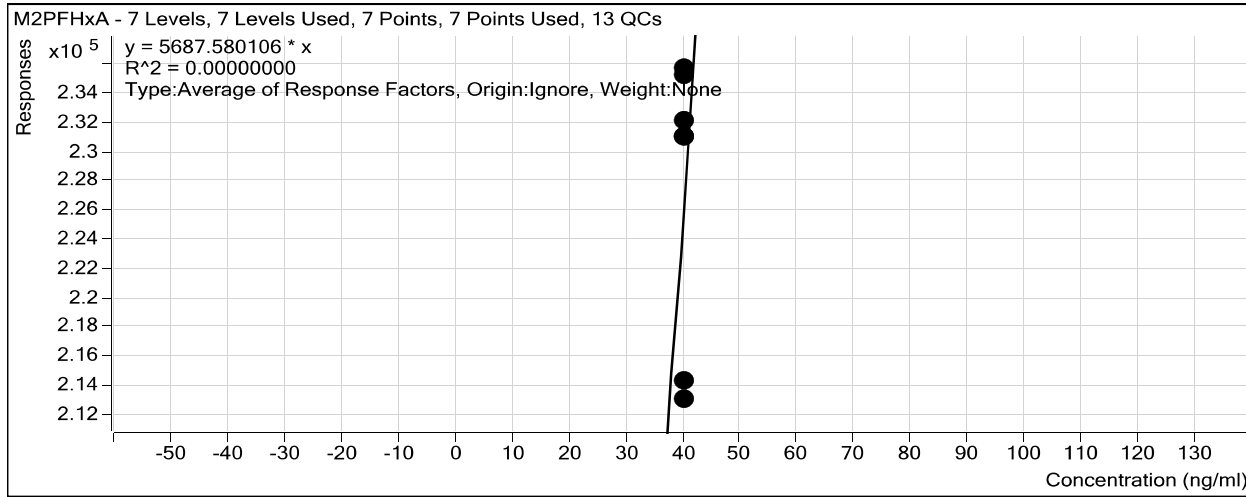
Instrument *ISTD*

M2PFHxA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
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D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	235193	40.0000	5879.8341
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Quantitative Analysis Calibration Report

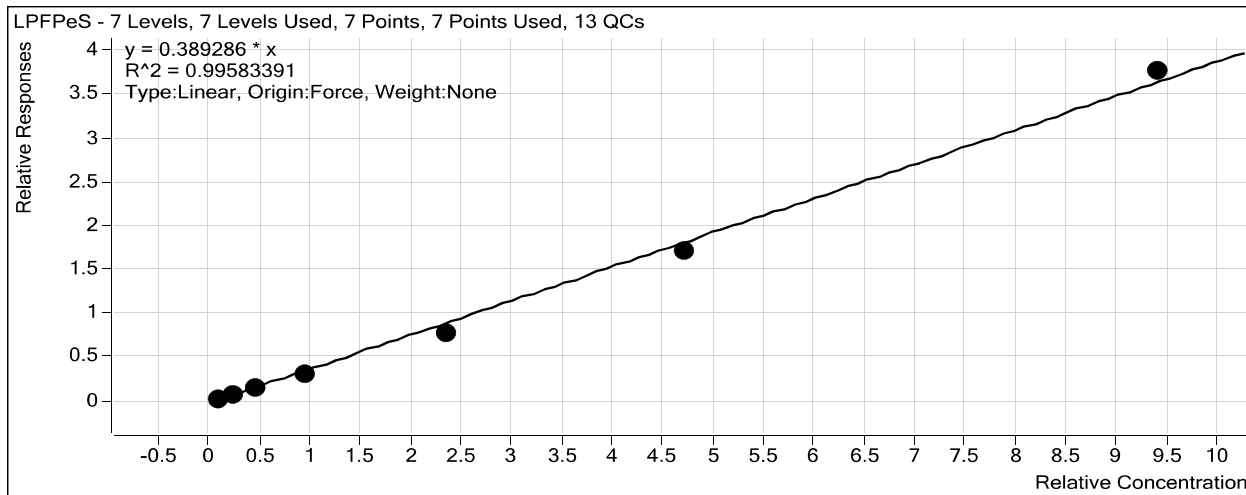
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	232178	40.0000	5804.4611
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	231039	40.0000	5775.9642
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	213135	40.0000	5328.3794
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	214276	40.0000	5356.9082



Target Compound

LPPPeS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	2829	1.8800	0.2958
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	7177	4.7000	0.3045
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	14899	9.4000	0.3167
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	30254	18.8000	0.3276
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	77998	47.0000	0.3321
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	162761	94.0000	0.3645
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	350210	188.0000	0.3999



Quantitative Analysis Calibration Report

Extracted ISTD

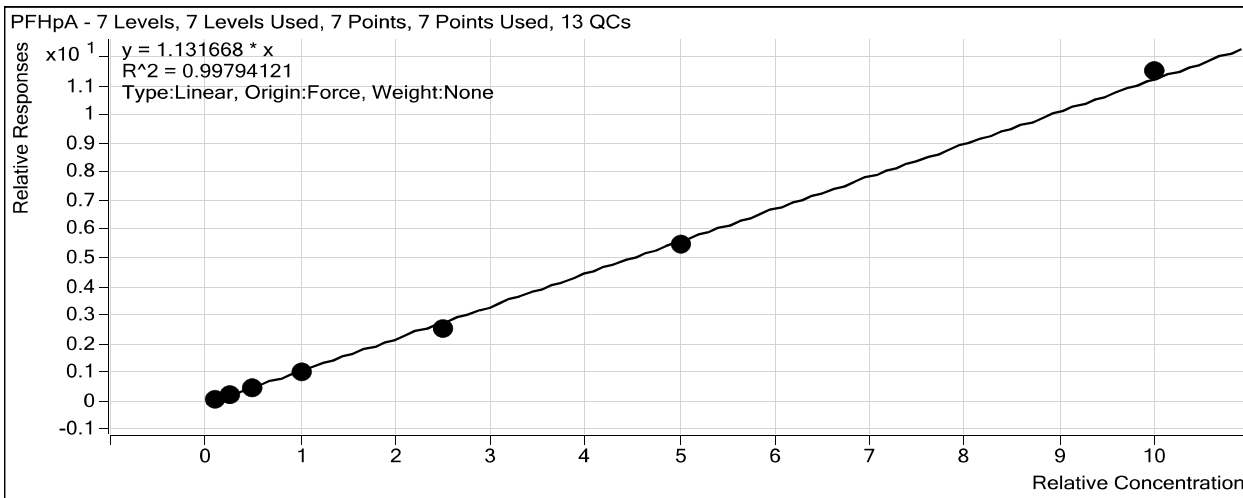
M4PFHpA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	129483	20.0000	6474.1394
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	127104	20.0000	6355.2137
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	129060	20.0000	6452.9920
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	127168	20.0000	6358.3823
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	128852	20.0000	6442.6166
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	118093	20.0000	5904.6637
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	119243	20.0000	5962.1746

Target Compound

PFHpA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	10386	2.0000	0.8021
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	28527	5.0000	0.8978
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	62525	10.0000	0.9689
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	127588	20.0000	1.0033
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	322530	50.0000	1.0012
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	644021	100.0000	1.0907
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1373604	200.0000	1.1519



Extracted ISTD

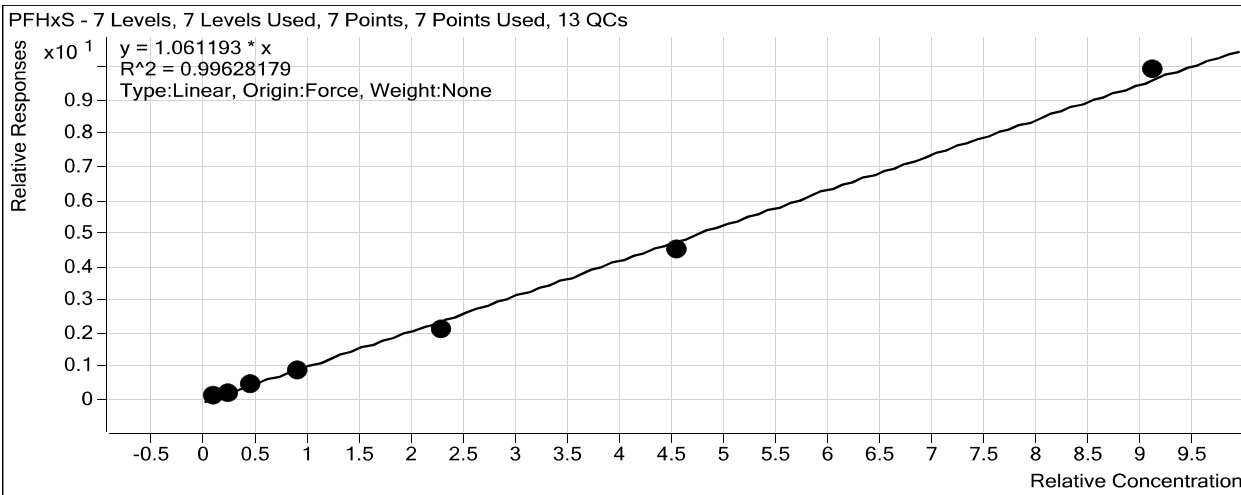
M3PFHxS

Quantitative Analysis Calibration Report

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	31895	20.0000	1594.7634
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	31912	20.0000	1595.5965
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	32067	20.0000	1603.3538
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	30951	20.0000	1547.5533
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	31832	20.0000	1591.5804
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	29926	20.0000	1496.3046
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	29752	20.0000	1487.6175

Target Compound *PFHxS*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	2806	1.8240	0.9647
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	6288	4.5600	0.8643
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	13894	9.1200	0.9502
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	25917	18.2400	0.9181
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	66953	45.6000	0.9225
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	135269	91.2000	0.9913
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	295541	182.4000	1.0892



Extracted ISTD *M2 6:2 FTS*

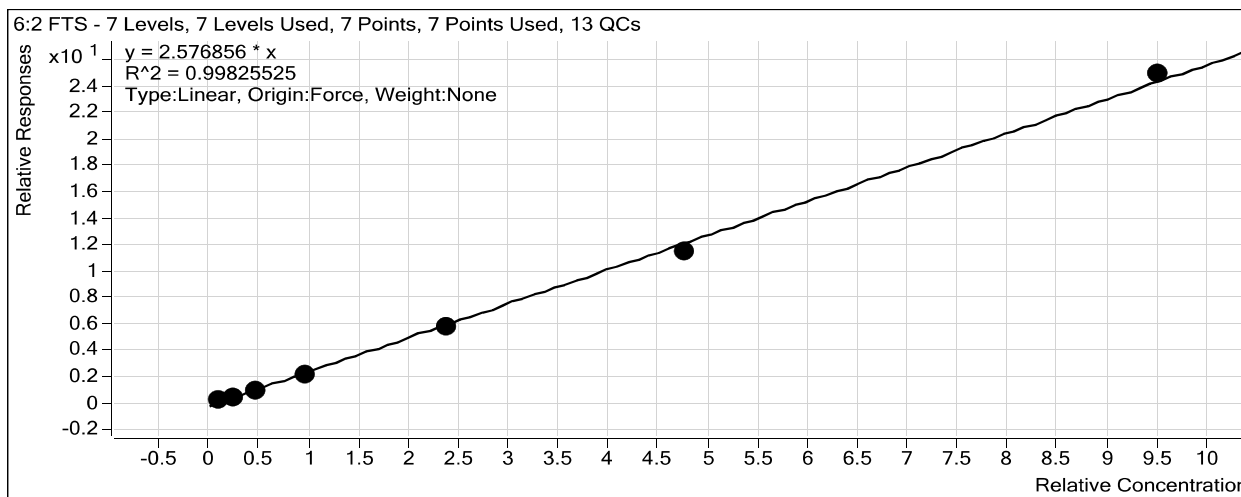
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	6307	20.0000	315.3343

Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	6815	20.0000	340.7744
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	7430	20.0000	371.5168
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	6939	20.0000	346.9425
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	7033	20.0000	351.6389
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	7043	20.0000	352.1262
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	7084	20.0000	354.2103

Target Compound 6:2 FTS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	1260	1.9000	2.1022
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	3523	4.7500	2.1762
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	7388	9.5000	2.0933
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	15641	19.0000	2.3727
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	41296	47.5000	2.4724
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	81265	95.0000	2.4293
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	176583	190.0000	2.6238



Extracted ISTD M8PFOA

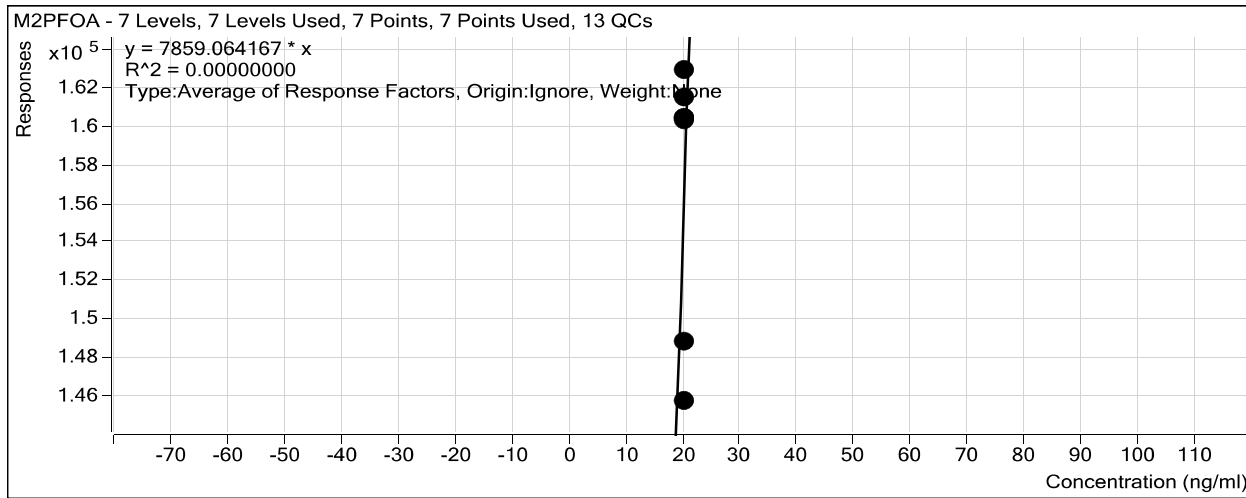
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	144168	20.0000	7208.3836
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	120538	20.0000	6026.8872
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	136479	20.0000	6823.9483
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	134014	20.0000	6700.6928

Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	137198	20.0000	6859.9203
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	130969	20.0000	6548.4419
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	127775	20.0000	6388.7386

Instrument ISTD M2PFOA

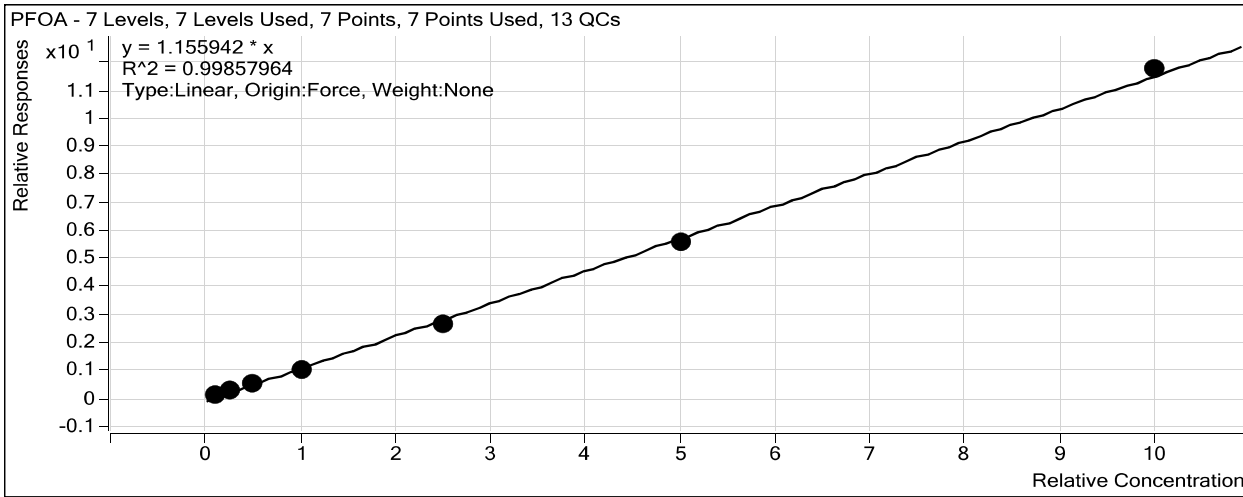
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	160363	20.0000	8018.1531
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	162908	20.0000	8145.3870
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	161497	20.0000	8074.8711
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	160500	20.0000	8024.9776
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	160409	20.0000	8020.4471
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	148823	20.0000	7441.1341
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	145770	20.0000	7288.4792



Target Compound PFOA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	12864	2.0000	0.8923
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	34115	5.0000	1.1321
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	69312	10.0000	1.0157
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	141516	20.0000	1.0560
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	362541	50.0000	1.0570
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	729241	100.0000	1.1136
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1500206	200.0000	1.1741

Quantitative Analysis Calibration Report

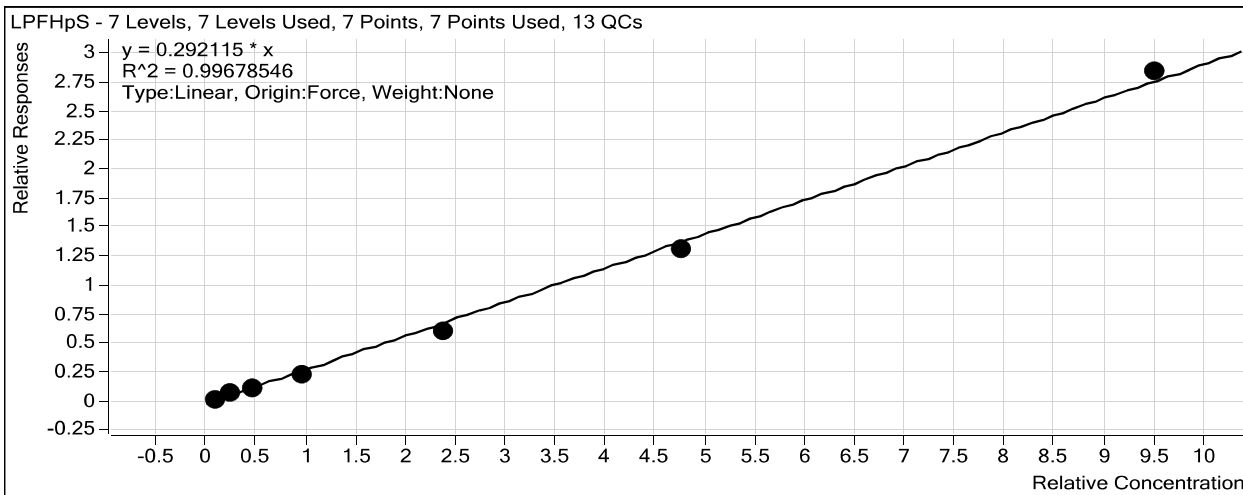


Target Compound

LPFHpS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	2897	1.9000	0.2115
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	7379	4.7500	0.2577
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	16345	9.5000	0.2521
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	31062	19.0000	0.2440
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	83526	47.5000	0.2563
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	171356	95.0000	0.2754

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	363101	190.0000	0.2991



Extracted ISTD

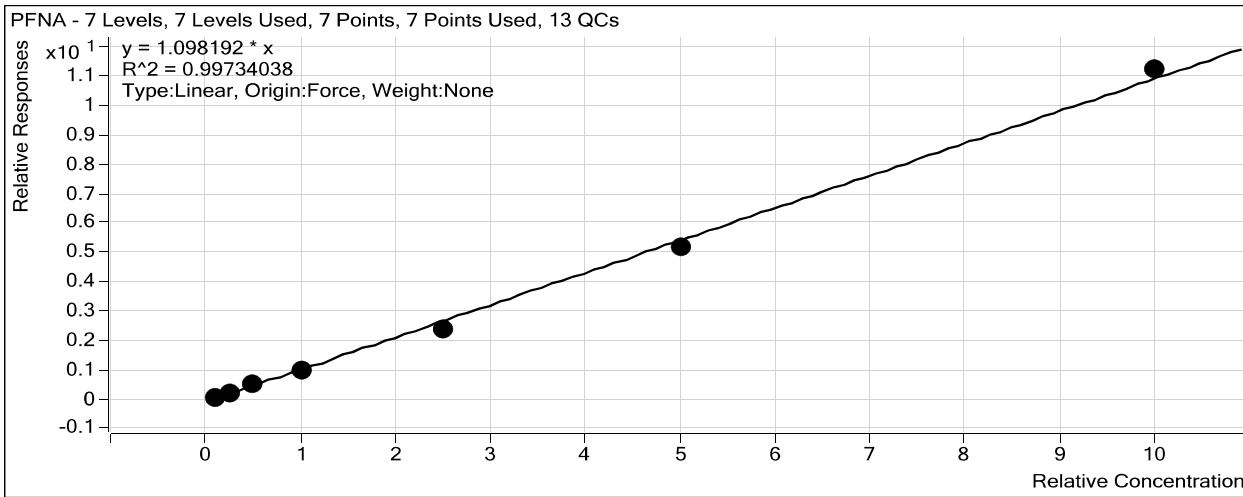
M9PFNA

Quantitative Analysis Calibration Report

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	148608	20.0000	7430.3889
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	143984	20.0000	7199.2060
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	147795	20.0000	7389.7613
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	145798	20.0000	7289.8758
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	150311	20.0000	7515.5476
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	138837	20.0000	6941.8395
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	136609	20.0000	6830.4352

Target Compound *PFNA*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	12144	2.0000	0.8172
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	31870	5.0000	0.8854
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	72815	10.0000	0.9853
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	146186	20.0000	1.0027
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	362649	50.0000	0.9651
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	723000	100.0000	1.0415
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1532860	200.0000	1.1221



Extracted ISTD *M8PFOS*

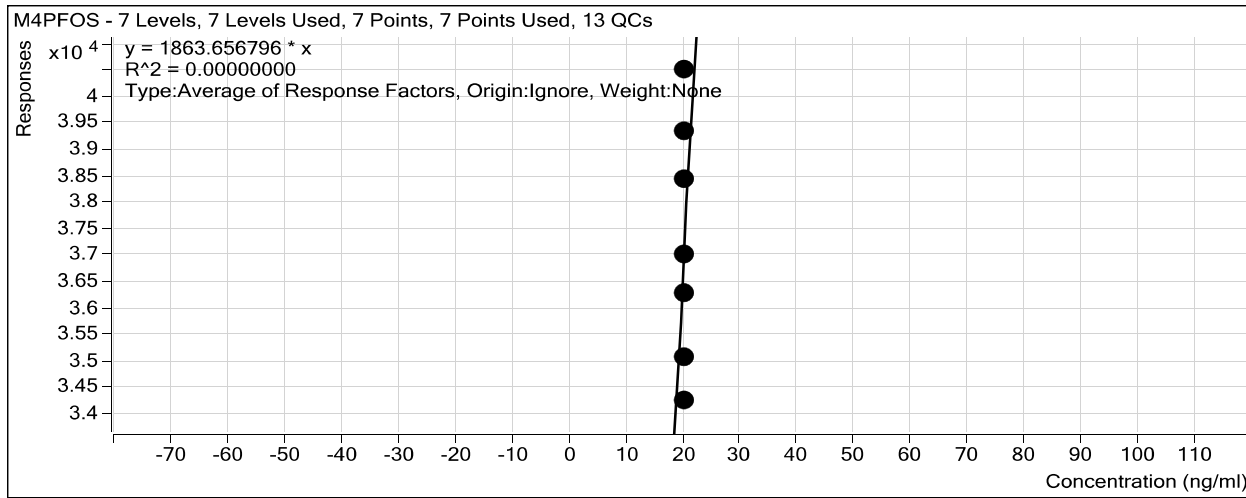
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	30197	20.0000	1509.8734

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D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	30685	20.0000	1534.2306
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	30109	20.0000	1505.4309
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	28420	20.0000	1420.9991
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	30933	20.0000	1546.6644
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	28433	20.0000	1421.6730
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	28035	20.0000	1401.7273

Instrument *ISTD* *M4PFOS*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	37006	20.0000	1850.3018
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	39335	20.0000	1966.7749
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	40492	20.0000	2024.5917
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	38437	20.0000	1921.8507
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	36272	20.0000	1813.5848
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	35091	20.0000	1754.5466
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	34279	20.0000	1713.9472

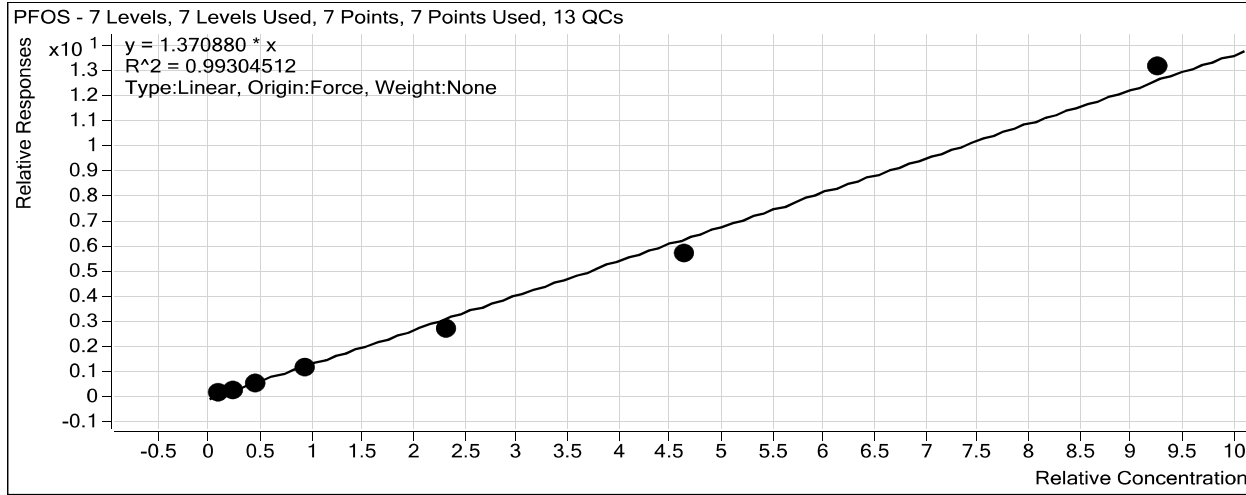


Target Compound *PFOS*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	3556	1.8510	1.2725
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	8593	4.6280	1.2102
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	16401	9.2550	1.1771
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	33385	18.5100	1.2693

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D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	83027	46.2800	1.1599
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	161206	92.5500	1.2252
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	368978	185.1000	1.4221



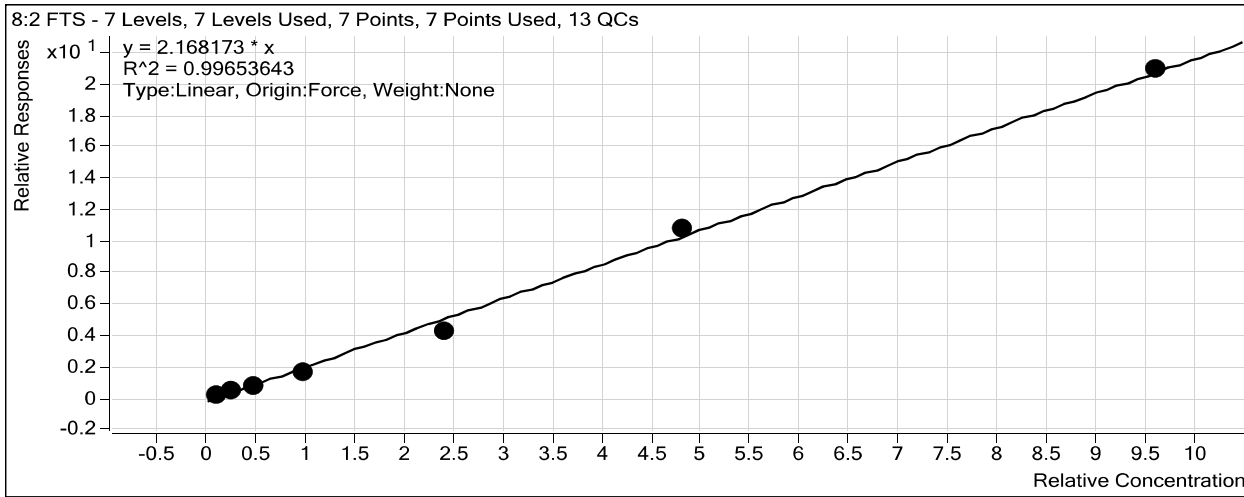
Target Compound

8:2 FTS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	1227	1.9200	1.8771
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	3729	4.8000	2.1160
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	6209	9.6000	1.7634
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	13175	19.2000	1.7765
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	32984	48.0000	1.7714
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	68636	96.0000	2.2452

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	144353	192.0000	2.1787

Quantitative Analysis Calibration Report



Extracted *ISTD*

M2 8:2 FTS

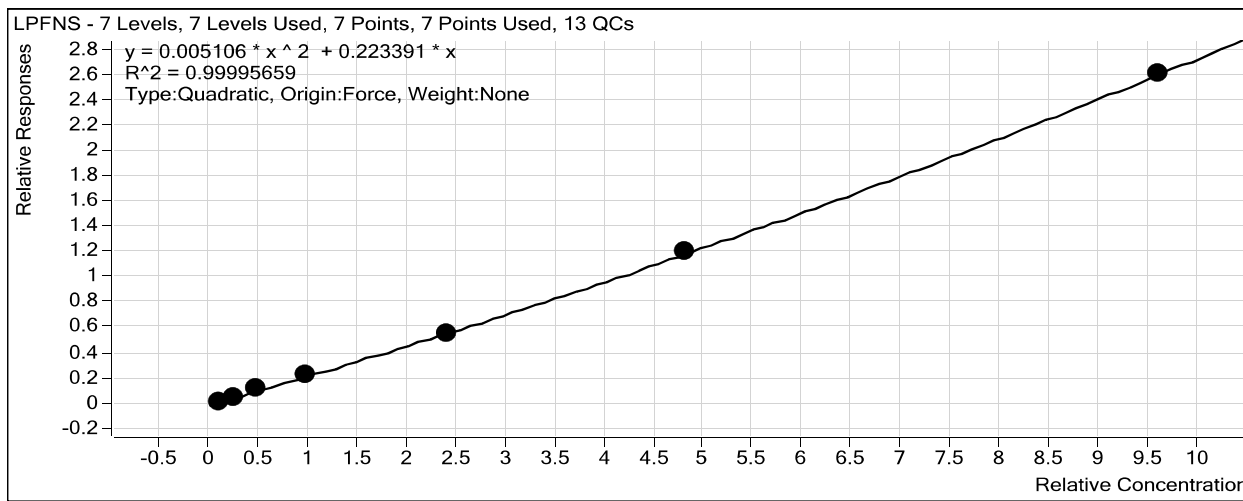
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	6810	20.0000	340.4986
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	7343	20.0000	367.1366
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	7335	20.0000	366.7620
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	7725	20.0000	386.2501
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	7758	20.0000	387.9228
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	6369	20.0000	318.4350
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	6902	20.0000	345.0870

Target Compound

LPFNS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	2595	1.9200	0.1819
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	7816	4.8000	0.2262
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	16368	9.6000	0.2307
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	32099	19.2000	0.2293
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	83220	48.0000	0.2307
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	166348	96.0000	0.2496
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	357066	192.0000	0.2723

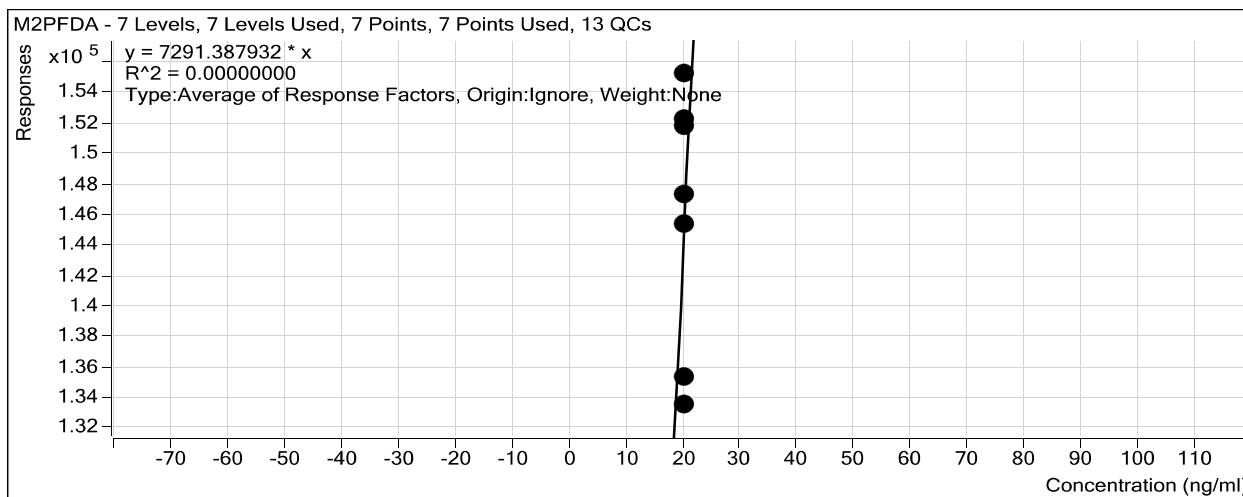
Quantitative Analysis Calibration Report



Instrument *ISTD*

M2PFDA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	147306	20.0000	7365.3205
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	151767	20.0000	7588.3253
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	155207	20.0000	7760.3738
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	152296	20.0000	7614.8161
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	145309	20.0000	7265.4353
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	135306	20.0000	6765.2795
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	133603	20.0000	6680.1651



Extracted *ISTD*

M6PFDA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
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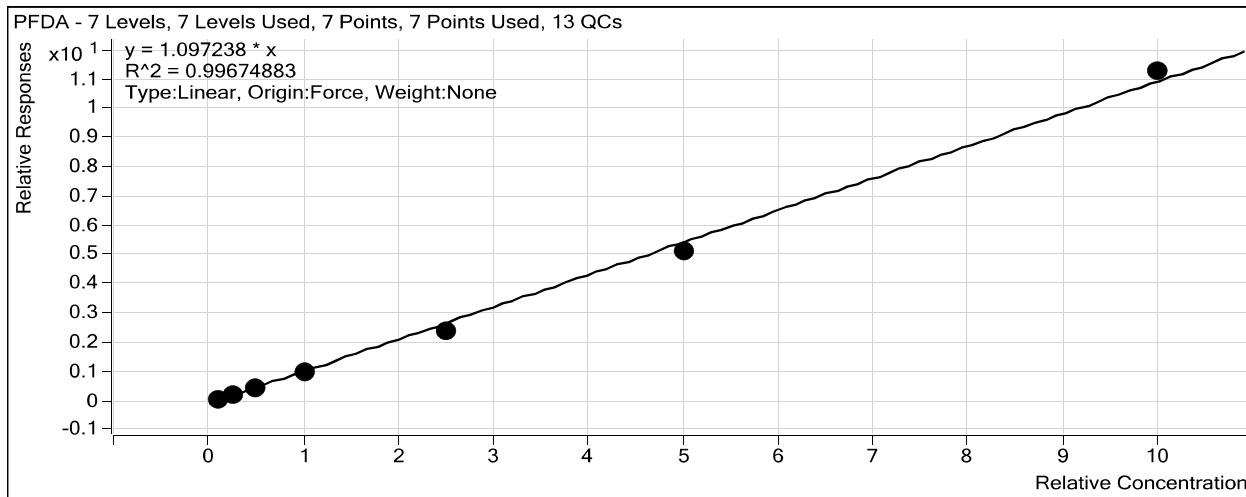
Quantitative Analysis Calibration Report

File Path	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	132260	20.0000	6612.9800
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	133454	20.0000	6672.7130
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	134546	20.0000	6727.3100
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	127656	20.0000	6382.7757
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	128798	20.0000	6439.8753
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	121360	20.0000	6068.0028

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	115476	20.0000	5773.7852

Target Compound *PFDA*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	10350	2.0000	0.7826
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	28801	5.0000	0.8633
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	63727	10.0000	0.9473
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	122099	20.0000	0.9565
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	312149	50.0000	0.9694
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	624037	100.0000	1.0284
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1298403	200.0000	1.1244



Extracted ISTD *d3-NMeFOSAA*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	5449	20.0000	272.4302

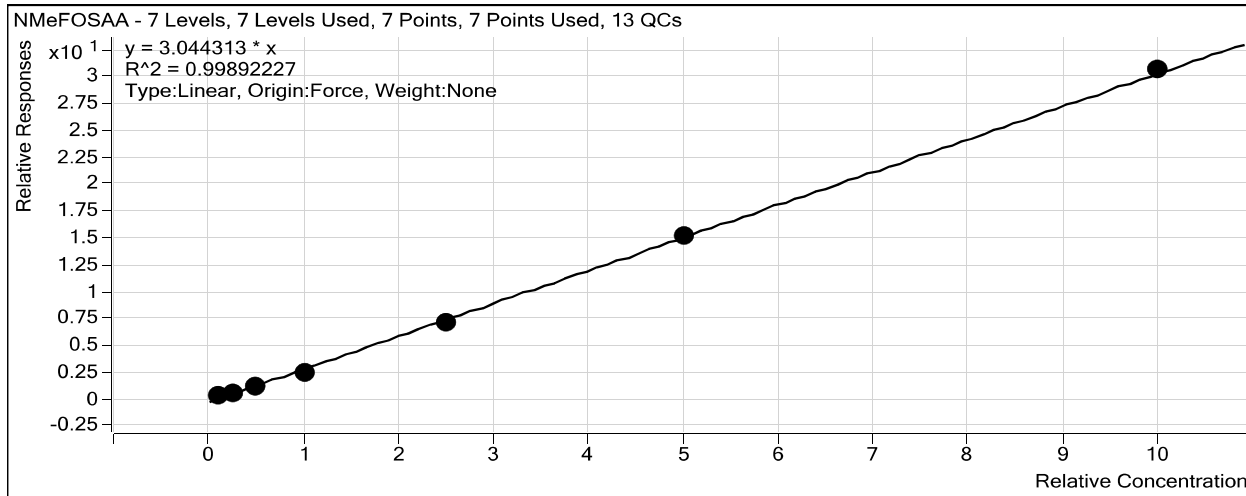
Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	5505	20.0000	275.2563
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	6052	20.0000	302.6070
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	5852	20.0000	292.5877
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	6023	20.0000	301.1303
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	5277	20.0000	263.8496
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	5912	20.0000	295.5862

Target Compound *NMeFOSAA*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	1514	2.0000	2.7791
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	3412	5.0000	2.4791
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	7526	10.0000	2.4870

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	14310	20.0000	2.4455
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	42433	50.0000	2.8183
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	80686	100.0000	3.0580
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	181062	200.0000	3.0628



Extracted ISTD *M8FOSA*

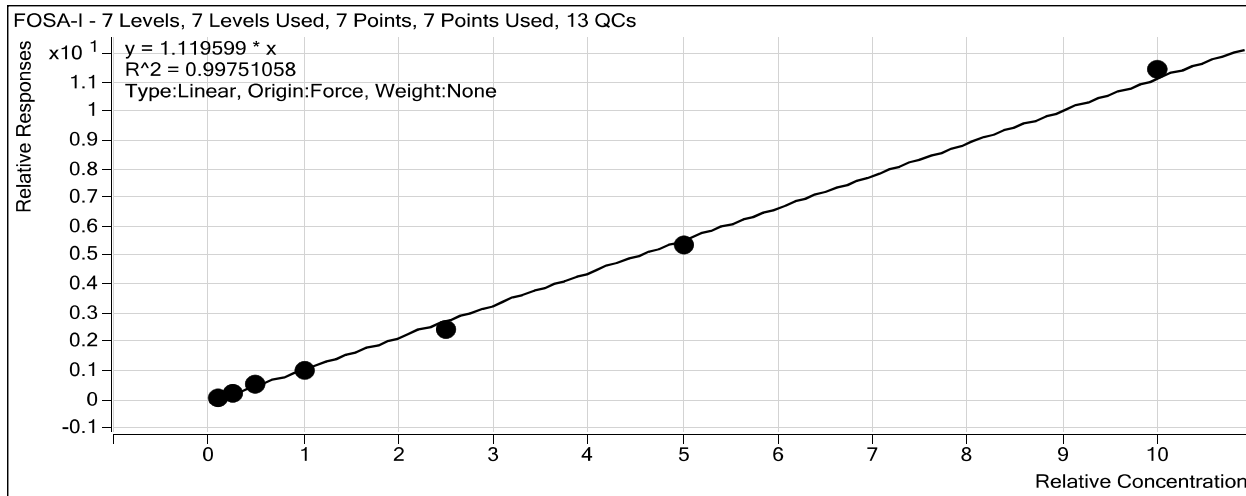
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	55826	20.0000	2791.3146
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	56424	20.0000	2821.1911

Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	55598	20.0000	2779.9128
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	53237	20.0000	2661.8448
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	57216	20.0000	2860.8001
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	52696	20.0000	2634.8185
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	53522	20.0000	2676.0905

Target Compound *FOSA-I*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	4748	2.0000	0.8506
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	12368	5.0000	0.8768
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	28455	10.0000	1.0236
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	54607	20.0000	1.0257
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	138130	50.0000	0.9657
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	283692	100.0000	1.0767
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	610845	200.0000	1.1413



Extracted ISTD *d5-NETFOSAA*

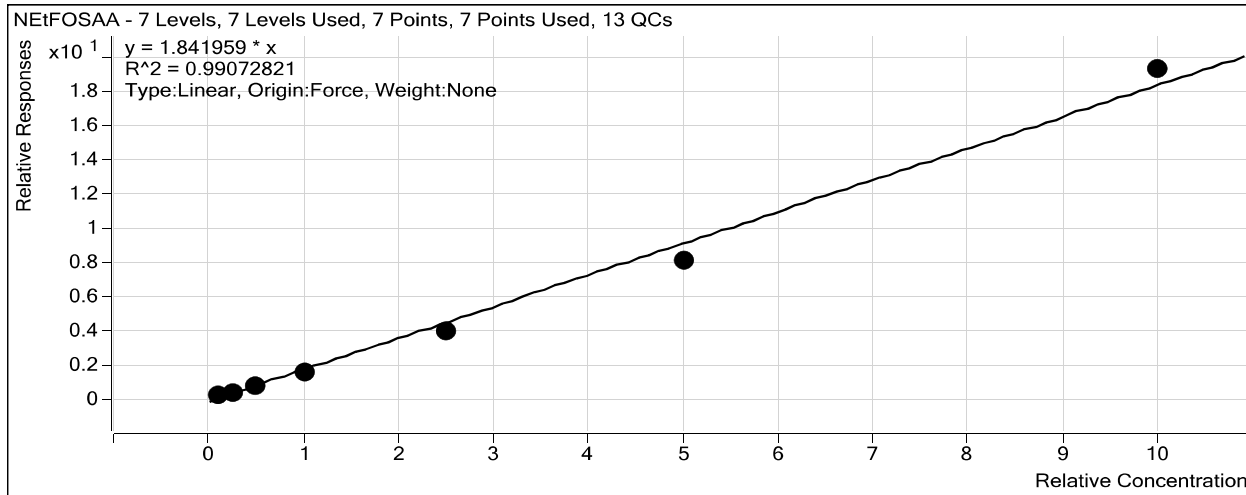
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	9943	20.0000	497.1442
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	9801	20.0000	490.0491
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	9491	20.0000	474.5469
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	9650	20.0000	482.5221
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	9571	20.0000	478.5531

Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	9179	20.0000	458.9508
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	8415	20.0000	420.7535

Target Compound *NETFOSAA*

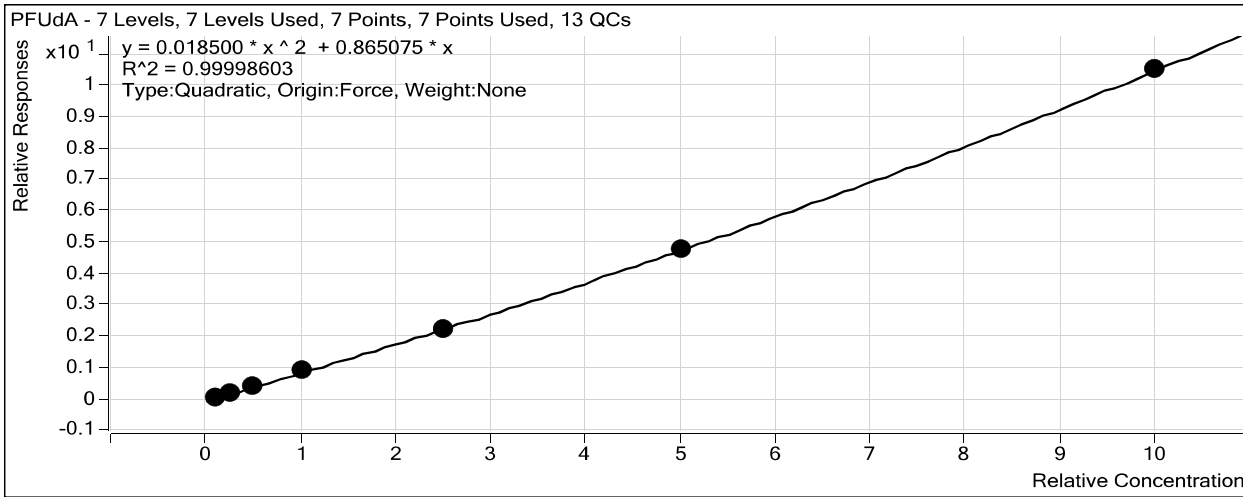
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	1443	2.0000	1.4514
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	3272	5.0000	1.3352
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	6975	10.0000	1.4698
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	14478	20.0000	1.5002
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	37161	50.0000	1.5531
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	73928	100.0000	1.6108
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	161780	200.0000	1.9225



Target Compound *PFUDa*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	9710	2.0000	0.7067
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	29040	5.0000	0.8322
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	60835	10.0000	0.8476
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	118561	20.0000	0.8842
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	306451	50.0000	0.9038
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	610204	100.0000	0.9612
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1304798	200.0000	1.0497

Quantitative Analysis Calibration Report

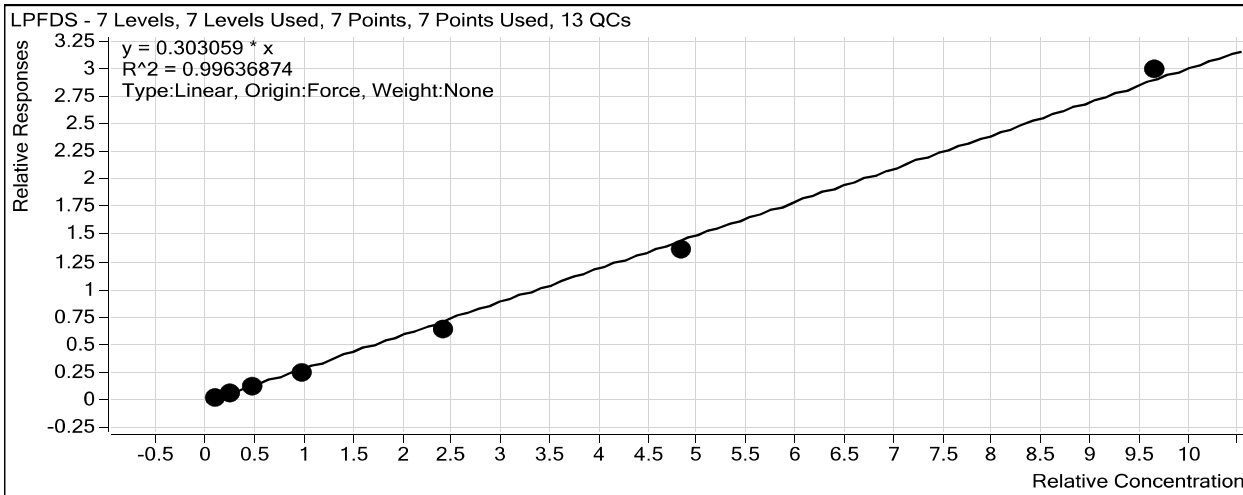


Target Compound

LPFDS

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	2868	1.9300	0.2247
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	8026	4.8250	0.2493
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	16712	9.6500	0.2574
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	30679	19.3000	0.2490
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	82462	48.2500	0.2654
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	166305	96.5000	0.2840

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	346417	193.0000	0.3109



Extracted ISTD

M7PFUdA

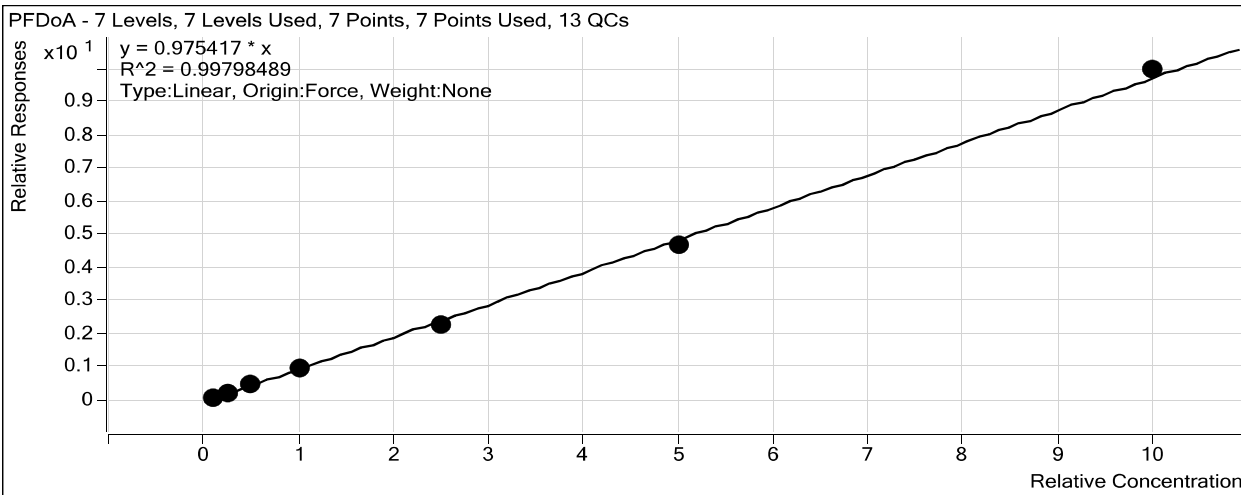
Quantitative Analysis Calibration Report

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	137411	20.0000	6870.5404
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	139591	20.0000	6979.5675
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	143542	20.0000	7177.1061
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	134090	20.0000	6704.5063
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	135632	20.0000	6781.6086
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	126970	20.0000	6348.4768
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	124296	20.0000	6214.8219

Target Compound

PFDoA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	10584	2.0000	0.7385
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	29312	5.0000	0.8040
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	66813	10.0000	0.8428
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	126825	20.0000	0.9110
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	338139	50.0000	0.8863
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	662222	100.0000	0.9262
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1411206	200.0000	0.9944



Extracted ISTD

MPFDoA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	143315	20.0000	7165.7533

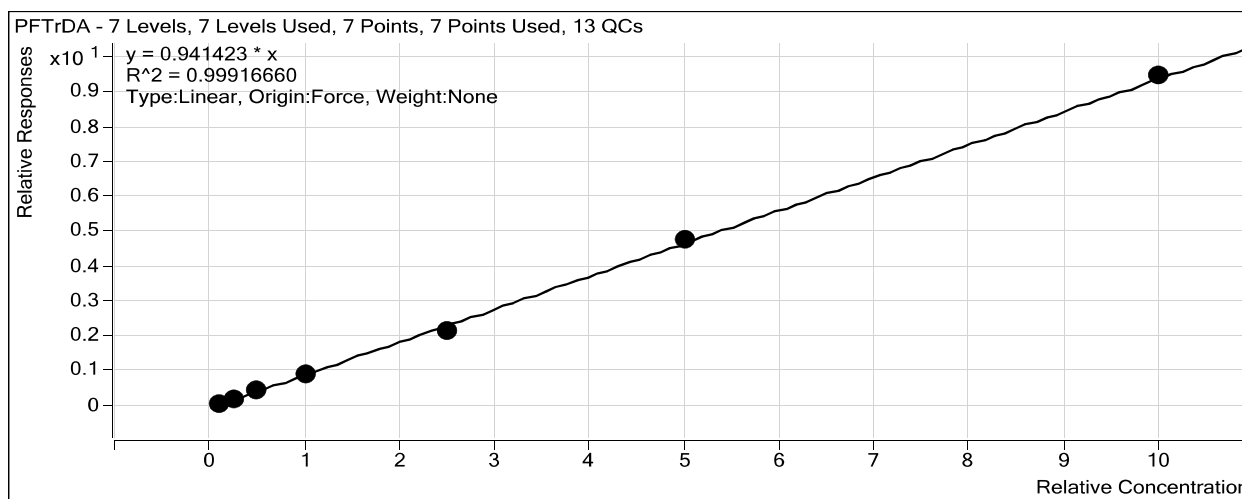
Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	145822	20.0000	7291.1016
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	158552	20.0000	7927.5793
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	139213	20.0000	6960.6585
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	152613	20.0000	7630.6405
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	142991	20.0000	7149.5257
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	141917	20.0000	7095.8476

Target Compound

PFTrDA

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	12227	2.0000	0.7018
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	34017	5.0000	0.7809
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	71795	10.0000	0.8396
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	145918	20.0000	0.9191
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	370764	50.0000	0.8515
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	769798	100.0000	0.9511
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1591563	200.0000	0.9452



Extracted ISTD

M2PFTeDA

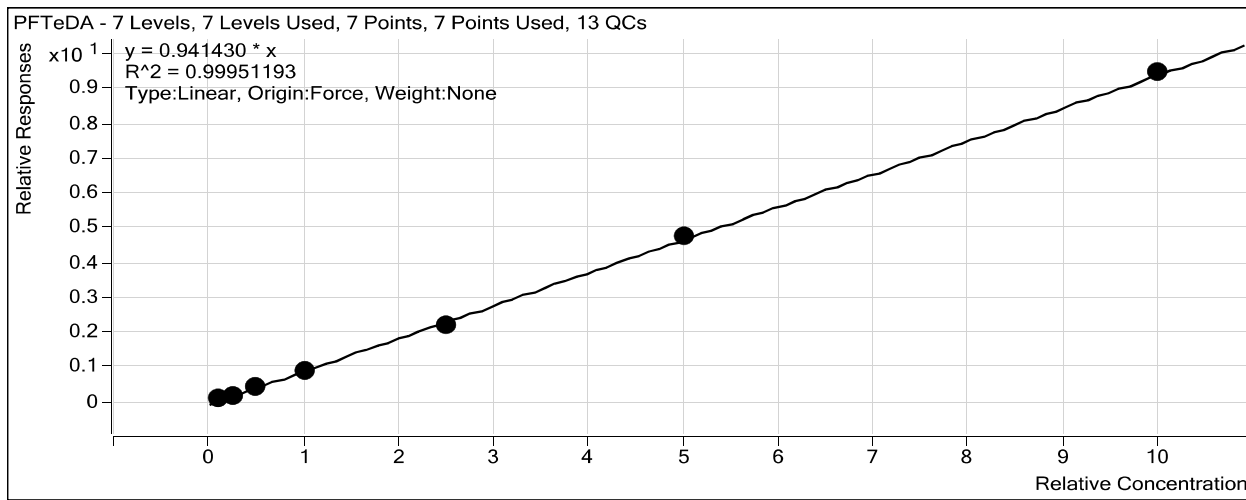
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	174238	20.0000	8711.9108
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	174253	20.0000	8712.6356
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	171026	20.0000	8551.2948
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	158756	20.0000	7937.8126

Quantitative Analysis Calibration Report

D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	174179	20.0000	8708.9739
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	161879	20.0000	8093.9685
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	168378	20.0000	8418.8766

Target Compound *PFTeDA*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc (ng/mL)	RF
D:\MassHunter\Data\2171216BCAL\2171216B_01.d	Calibration	1	<input checked="" type="checkbox"/>	12768	2.0000	0.7328
D:\MassHunter\Data\2171216BCAL\2171216B_02.d	Calibration	2	<input checked="" type="checkbox"/>	35203	5.0000	0.8081
D:\MassHunter\Data\2171216BCAL\2171216B_03.d	Calibration	3	<input checked="" type="checkbox"/>	74641	10.0000	0.8729
D:\MassHunter\Data\2171216BCAL\2171216B_04.d	Calibration	4	<input checked="" type="checkbox"/>	144215	20.0000	0.9084
D:\MassHunter\Data\2171216BCAL\2171216B_05.d	Calibration	5	<input checked="" type="checkbox"/>	380230	50.0000	0.8732
D:\MassHunter\Data\2171216BCAL\2171216B_06.d	Calibration	6	<input checked="" type="checkbox"/>	765255	100.0000	0.9455
D:\MassHunter\Data\2171216BCAL\2171216B_07.d	Calibration	7	<input checked="" type="checkbox"/>	1591661	200.0000	0.9453



Quantitative Analysis Sample Report

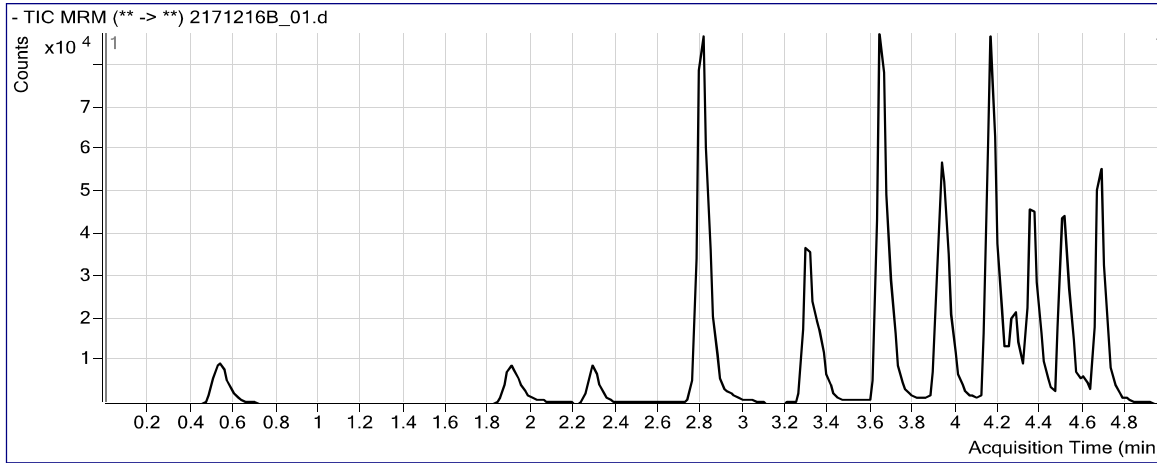
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_01.d **Position** Vial 1 **Samp Name** 1201 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	147306		101.0	20.2028	101.01		547
M2PFHxA		2.814	231062		101.6	40.6257	101.56		13228
M2PFOA		3.652	160363		102.0	20.4049	102.02		4516
M4PFOS		3.951	37006		99.3	19.8567	99.28		347
4:2 FTS	M2 4:2 FTS	2.775	1214	4677	99.5	1.7013	90.98		14
6:2 FTS	M2 6:2 FTS	3.649	1260	6307	90.7	1.5500	81.58	m	INF
8:2 FTS	M2 8:2 FTS	4.150	1227	6810	94.9	1.6623	86.58		13
FOSA-I	M8FOSA	4.292	4748	55826	101.6	1.5194	75.97		212
LPFDS	M6PFDA	4.364	2868	132260	103.6	1.4312	74.16		48
LPFHpS	M8PFOA	3.696	2897	144168	108.4	1.3759	72.41		50
LPFNS	M9PFNA	4.165	2595	148608	102.8	1.5608	81.29		145
LPFPeS	M5PFHxA	2.944	2829	101751	103.5	1.4286	75.99		58
NEtFOSAA	d5-NEtFOSAA	4.349	1443	9943	105.4	1.5759	78.79		31
NMeFOSAA	d3-NMeFOSAA	4.248	1514	5449	95.2	1.8258	91.29		30
PFBA	MPFBA	0.525	3972	47883	104.6	1.5280	76.40		33
PFBS	M3PFBS	2.274	2637	33480	104.1	1.3035	73.65		43
PFDA	M6PFDA	4.169	10350	132260	103.6	1.4264	71.32		68
PFDoA	MPFDoA	4.497	10584	143315	97.9	1.5142	75.71		INF
PFHpA	M4PFHpA	3.302	10386	129483	103.1	1.4176	70.88		INF
PFHxA	M5PFHxA	2.799	8302	101751	103.5	1.5800	79.00		INF
PFHxS	M3PFHxS	3.366	2806	31895	102.3	1.6581	90.90		65
PFNA	M9PFNA	3.935	12144	148608	102.8	1.4883	74.41		35
PFOA	M8PFOA	3.654	12864	144168	108.4	1.5439	77.19		INF
PFOS	M8PFOS	3.952	3556	30197	102.2	1.7182	92.83		32
PFPeA	M5PFPeA	1.915	3941	48386	103.4	1.4734	73.67		14
PFTeDA	M2PFTeDA	4.679	12768	174238	103.1	1.5567	77.84		318
PFTrDA	M2PFTeDA	4.596	12227	174238	103.1	1.4909	74.54		281
PFUdA	M7PFUdA	4.352	9710	137411	102.2	1.6309	81.55		86

Quantitative Analysis Sample Report

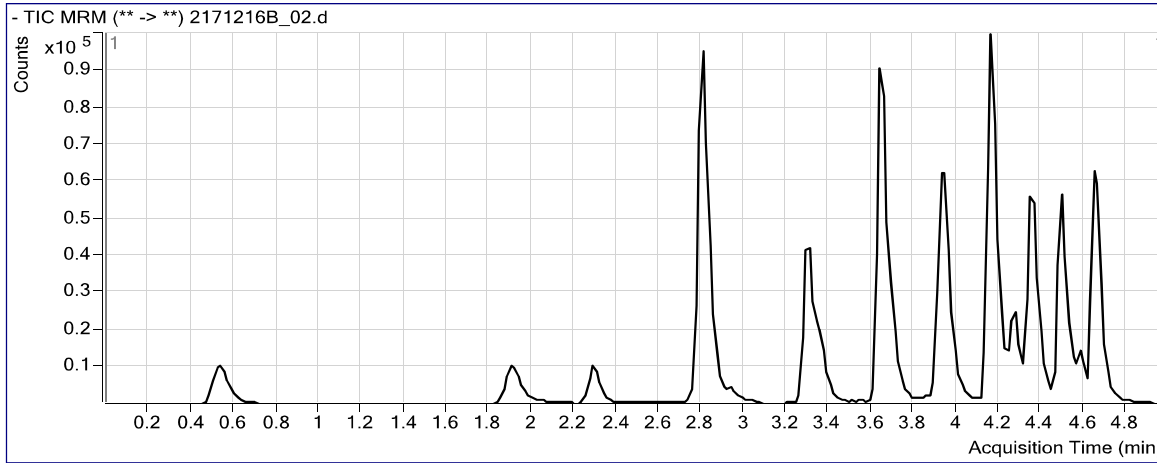
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_02.d **Position** Vial 2 **Samp Name** 1202 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	151767		104.1	20.8145	104.07		6629
M2PFHxA		2.814	235193		103.4	41.3521	103.38		8291
M2PFOA		3.652	162908		103.6	20.7286	103.64		6755
M4PFOS		3.951	39335		105.5	21.1066	105.53		2071
4:2 FTS	M2 4:2 FTS	2.775	2761	4523	96.2	4.0018	85.60		28
6:2 FTS	M2 6:2 FTS	3.649	3523	6815	98.1	4.0114	84.45		134
8:2 FTS	M2 8:2 FTS	4.167	3729	7343	102.3	4.6845	97.59		39
FOSA-I	M8FOSA	4.292	12368	56424	102.7	3.9157	78.31		1085
LPFDS	M6PFDA	4.364	8026	133454	104.5	3.9689	82.26		442
LPFHpS	M8PFOA	3.696	7379	120538	90.6	4.1911	88.23		365
LPFNS	M9PFNA	4.182	7816	143984	99.6	4.8331	100.69		408
LPFPeS	M5PFHxA	2.944	7177	100302	102.0	3.6762	78.22		271
NEtFOSAA	d5-NEtFOSAA	4.349	3272	9801	103.9	3.6244	72.49		50
NMeFOSAA	d3-NMeFOSAA	4.248	3412	5505	96.2	4.0716	81.43		76
PFBA	MPFBA	0.525	10451	46500	101.6	4.1402	82.80		120
PFBS	M3PFBS	2.291	6963	32764	101.9	3.5180	79.50		214
PFDA	M6PFDA	4.169	28801	133454	104.5	3.9338	78.68		INF
PFDoA	MPFDoA	4.497	29312	145822	99.6	4.1216	82.43		202
PFHpA	M4PFHpA	3.319	28527	127104	101.2	3.9665	79.33		170
PFHxA	M5PFHxA	2.816	21572	100302	102.0	4.1647	83.29		INF
PFHxS	M3PFHxS	3.366	6288	31912	102.3	3.7139	81.44		18419
PFNA	M9PFNA	3.935	31870	143984	99.6	4.0310	80.62		340
PFOA	M8PFOA	3.654	34115	120538	90.6	4.8969	97.94		744
PFOS	M8PFOS	3.952	8593	30685	103.9	4.0855	88.28		33
PFPeA	M5PFPeA	1.915	12213	46990	100.4	4.7022	94.04		INF
PFTeDA	M2PFTeDA	4.645	35203	174253	103.1	4.2918	85.84		672
PFTrDA	M2PFTeDA	4.580	34017	174253	103.1	4.1473	82.95		276
PFUdA	M7PFUdA	4.352	29040	139591	103.8	4.7852	95.70		159

Quantitative Analysis Sample Report

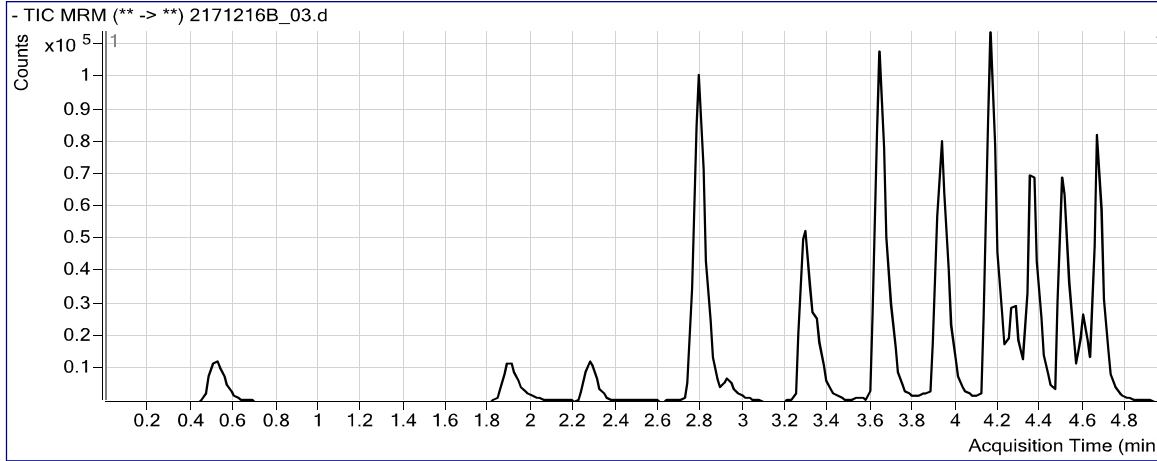
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_03.d **Position** Vial 3 **Samp Name** 1203 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	155207		106.4	21.2864	106.43		464
M2PFHxA		2.798	235639		103.6	41.4304	103.58		9976
M2PFOA		3.652	161497		102.7	20.5492	102.75		477
M4PFOS		3.951	40492		108.6	21.7271	108.64		1439
4:2 FTS	M2 4:2 FTS	2.759	5876	4929	104.9	7.8142	83.57		165
6:2 FTS	M2 6:2 FTS	3.631	7388	7430	106.9	7.7171	81.23		72
8:2 FTS	M2 8:2 FTS	4.167	6209	7335	102.2	7.8078	81.33		544
FOSA-I	M8FOSA	4.292	28455	55598	101.2	9.1424	91.42		1903
LPFDS	M6PFDA	4.364	16712	134546	105.4	8.1969	84.94		663
LPFHpS	M8PFOA	3.680	16345	136479	102.6	8.1996	86.31		1305
LPFNS	M9PFNA	4.165	16368	147795	102.2	9.8054	102.14		378
LPFPeS	M5PFHxA	2.927	14899	100098	101.8	7.6469	81.35		216
NEtFOSAA	d5-NEtFOSAA	4.349	6975	9491	100.6	7.9798	79.80		753
NMeFOSAA	d3-NMeFOSAA	4.248	7526	6052	105.7	8.1694	81.69		194
PFBA	MPFBA	0.509	21521	46868	102.4	8.4585	84.59		293
PFBS	M3PFBS	2.274	14921	32975	102.6	7.4902	84.64		278
PFDA	M6PFDA	4.169	63727	134546	105.4	8.6334	86.33		277
PFDoA	MPFDoA	4.497	66813	158552	108.3	8.6403	86.40		750
PFHpA	M4PFHpA	3.302	62525	129060	102.8	8.5620	85.62		1387
PFHxA	M5PFHxA	2.799	44953	100098	101.8	8.6961	86.96		504
PFHxS	M3PFHxS	3.349	13894	32067	102.8	8.1658	89.54		251
PFNA	M9PFNA	3.935	72815	147795	102.2	8.9724	89.72		409
PFOA	M8PFOA	3.654	69312	136479	102.6	8.7870	87.87		984
PFOS	M8PFOS	3.952	16401	30109	101.9	7.9470	85.87		85
PFPeA	M5PFPeA	1.893	24766	47859	102.2	9.3621	93.62		238
PFTeDA	M2PFTeDA	4.662	74641	171026	101.2	9.2717	92.72		1222
PFTrDA	M2PFTeDA	4.596	71795	171026	101.2	8.9182	89.18		INF
PFUdA	M7PFUdA	4.352	60835	143542	106.7	9.6977	96.98		416

Quantitative Analysis Sample Report

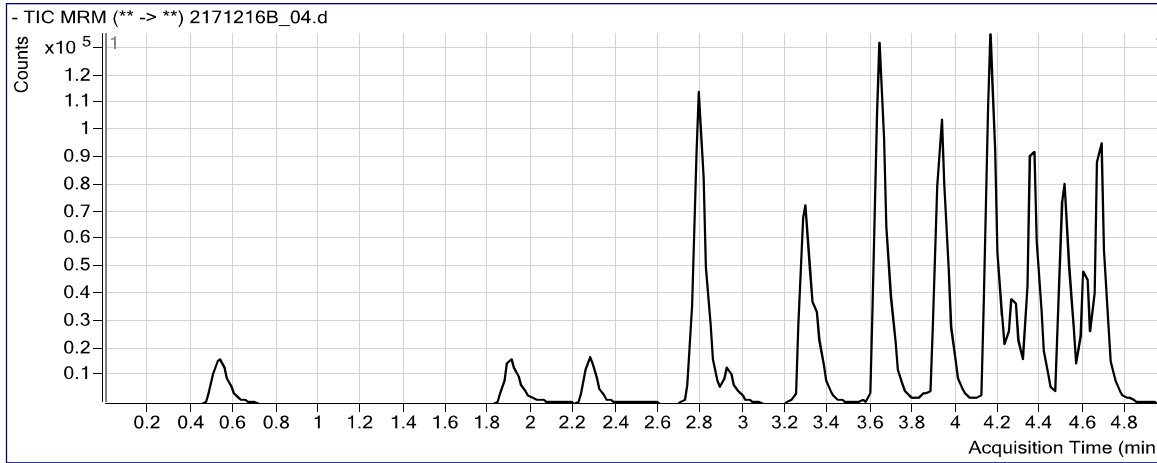
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_04.d **Position** Vial 4 **Samp Name** 1204 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	152296		104.4	20.8872	104.44		4084
M2PFHxA		2.798	232178		102.1	40.8220	102.06		8178
M2PFOA		3.652	160500		102.1	20.4222	102.11		6453
M4PFOS		3.951	38437		103.1	20.6245	103.12		2297
4:2 FTS	M2 4:2 FTS	2.759	12250	4790	101.9	16.7615	89.63		384
6:2 FTS	M2 6:2 FTS	3.631	15641	6939	99.8	17.4949	92.08		476
8:2 FTS	M2 8:2 FTS	4.150	13175	7725	107.6	15.7320	81.94		449
FOSA-I	M8FOSA	4.292	54607	53237	96.9	18.3233	91.62		491
LPFDS	M6PFDA	4.364	30679	127656	100.0	15.8599	82.18		186
LPFHpS	M8PFOA	3.680	31062	134014	100.7	15.8692	83.52		9316
LPFNS	M9PFNA	4.165	32099	145798	100.9	19.2859	100.45		4663
LPFPeS	M5PFHxA	2.927	30254	98230	99.9	15.8232	84.17		312
NEtFOSAA	d5-NEtFOSAA	4.349	14478	9650	102.3	16.2897	81.45		733
NMeFOSAA	d3-NMeFOSAA	4.248	14310	5852	102.2	16.0657	80.33		1203
PFBA	MPFBA	0.525	42932	45287	98.9	17.4626	87.31		448
PFBS	M3PFBS	2.274	29166	32025	99.6	15.0754	85.17		258
PFDA	M6PFDA	4.169	122099	127656	100.0	17.4342	87.17		1609
PFDoA	MPFDoA	4.514	126825	139213	95.1	18.6794	93.40		370
PFHpA	M4PFHpA	3.302	127588	127168	101.3	17.7314	88.66		2979
PFHxA	M5PFHxA	2.799	91104	98230	99.9	17.9591	89.80		250
PFHxS	M3PFHxS	3.349	25917	30951	99.2	15.7811	86.52		1049
PFNA	M9PFNA	3.935	146186	145798	100.9	18.2603	91.30		INF
PFOA	M8PFOA	3.654	141516	134014	100.7	18.2705	91.35		INF
PFOS	M8PFOS	3.952	33385	28420	96.2	17.1380	92.59		84
PFPeA	M5PFPeA	1.915	39274	46599	99.5	15.2479	76.24		99
PFTeDA	M2PFTeDA	4.679	144215	158756	94.0	19.2984	96.49		INF
PFTrDA	M2PFTeDA	4.596	145918	158756	94.0	19.5264	97.63		602
PFUdA	M7PFUdA	4.352	118561	134090	99.7	20.0137	100.07		638

Quantitative Analysis Sample Report

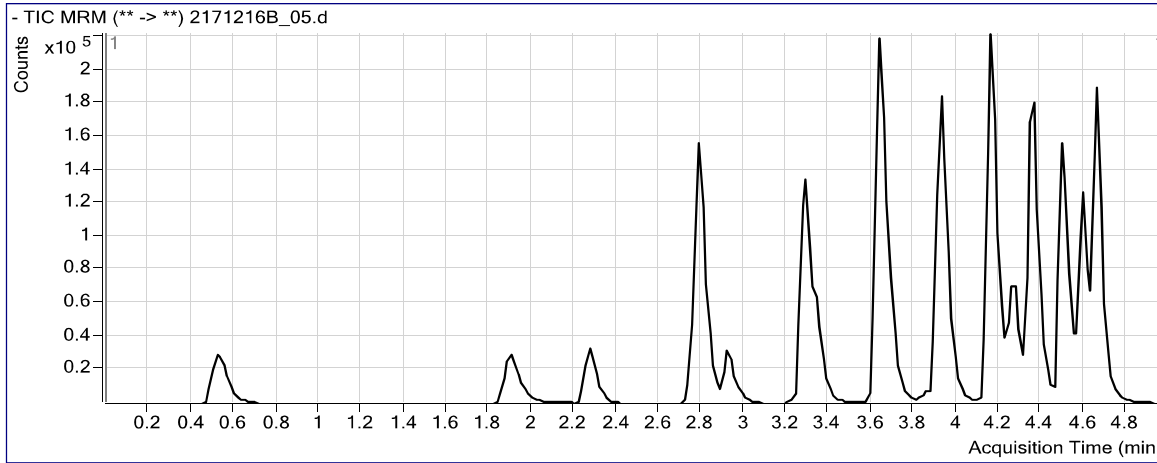
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Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_05.d **Position** Vial 5 **Samp Name** 1205 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	145309		99.6	19.9288	99.64		968
M2PFHxA		2.798	231039		101.6	40.6216	101.55		8198
M2PFOA		3.652	160409		102.1	20.4107	102.05		492
M4PFOS		3.951	36272		97.3	19.4626	97.31		2001
4:2 FTS	M2 4:2 FTS	2.759	29131	4865	103.5	39.2477	83.95		660
6:2 FTS	M2 6:2 FTS	3.631	41296	7033	101.2	45.5749	95.95		5626
8:2 FTS	M2 8:2 FTS	4.167	32984	7758	108.1	39.2156	81.70		176
FOSA-I	M8FOSA	4.292	138130	57216	104.2	43.1257	86.25		820
LPFDS	M6PFDA	4.364	82462	128798	100.9	42.2521	87.57		22122
LPFHpS	M8PFOA	3.680	83526	137198	103.1	41.6821	87.75		8374
LPFNS	M9PFNA	4.182	83220	150311	104.0	47.0394	98.00		1023
LPFPeS	M5PFHxA	2.927	77998	99938	101.6	40.0969	85.31		2895
NETFOSAA	d5-NETFOSAA	4.349	37161	9571	101.4	42.1580	84.32		INF
NMeFOSAA	d3-NMeFOSAA	4.248	42433	6023	105.2	46.2872	92.57		1829
PFBA	MPFBA	0.525	111596	47122	102.9	43.6239	87.25		790
PFBS	M3PFBS	2.274	76174	32485	101.0	38.8145	87.72		299
PFDA	M6PFDA	4.169	312149	128798	100.9	44.1758	88.35		INF
PFDoA	MPFDoA	4.497	338139	152613	104.3	45.4301	90.86		701
PFHpA	M4PFHpA	3.302	322530	128852	102.6	44.2373	88.47		19334
PFHxA	M5PFHxA	2.799	231790	99938	101.6	44.9114	89.82		4097
PFHxS	M3PFHxS	3.349	66953	31832	102.1	39.6413	86.93		4134
PFNA	M9PFNA	3.935	362649	150311	104.0	43.9388	87.88		461
PFOA	M8PFOA	3.654	362541	137198	103.1	45.7195	91.44		7161
PFOS	M8PFOS	3.952	83027	30933	104.7	39.1585	84.61		101
PFPeA	M5PFPeA	1.915	109110	48679	104.0	40.5515	81.10		175
PFTeDA	M2PFTeDA	4.662	380230	174179	103.1	46.3758	92.75		809
PFTrDA	M2PFTeDA	4.596	370764	174179	103.1	45.2215	90.44		17682
PFUdA	M7PFUdA	4.369	306451	135632	100.8	49.6054	99.21		5918

Quantitative Analysis Sample Report

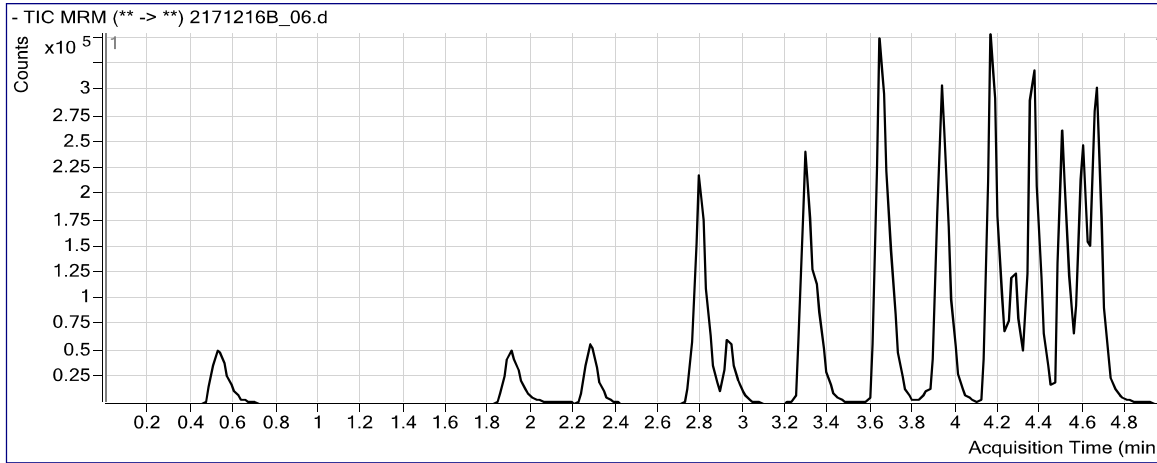
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_06.d **Position** Vial 6 **Samp Name** 1206 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	135306		92.8	18.5569	92.78		329
M2PFHxA		2.798	213135		93.7	37.4738	93.68		13248
M2PFOA		3.652	148823		94.7	18.9364	94.68		2329
M4PFOS		3.951	35091		94.1	18.8291	94.15		454
4:2 FTS	M2 4:2 FTS	2.759	60842	4535	96.5	87.9401	94.05		INF
6:2 FTS	M2 6:2 FTS	3.631	81265	7043	101.3	89.5602	94.27		280
8:2 FTS	M2 8:2 FTS	4.167	68636	6369	88.7	99.4116	103.55		1264
FOSA-I	M8FOSA	4.292	283692	52696	95.9	96.1686	96.17		471451
LPFDS	M6PFDA	4.364	166305	121360	95.1	90.4342	93.71		1778
LPFHpS	M8PFOA	3.680	171356	130969	98.5	89.5790	94.29		382
LPFNS	M9PFNA	4.182	166348	138837	96.0	96.6045	100.63		8466
LPFPeS	M5PFHxA	2.927	162761	94998	96.6	88.0225	93.64		INF
NEtFOSAA	d5-NEtFOSAA	4.349	73928	9179	97.3	87.4506	87.45		418
NMeFOSAA	d3-NMeFOSAA	4.265	80686	5277	92.2	100.4511	100.45		8931
PFBA	MPFBA	0.525	229753	43744	95.6	96.7488	96.75		8672
PFBS	M3PFBS	2.274	156476	30854	96.0	83.9481	94.86		15909
PFDA	M6PFDA	4.169	624037	121360	95.1	93.7268	93.73		15845
PFDoA	MPFDoA	4.497	662222	142991	97.7	94.9590	94.96		648
PFHpA	M4PFHpA	3.302	644021	118093	94.0	96.3797	96.38		30040
PFHxA	M5PFHxA	2.799	464832	94998	96.6	94.7488	94.75		1618
PFHxS	M3PFHxS	3.366	135269	29926	95.9	85.1894	93.41		5493
PFNA	M9PFNA	3.935	723000	138837	96.0	94.8387	94.84		INF
PFOA	M8PFOA	3.654	729241	130969	98.5	96.3379	96.34		10076
PFOS	M8PFOS	3.952	161206	28433	96.2	82.7145	89.37	m	INF
PFPeA	M5PFPeA	1.915	239705	45115	96.4	96.1255	96.13		3692
PFTeDA	M2PFTeDA	4.662	765255	161879	95.8	100.4284	100.43		10151
PFTrDA	M2PFTeDA	4.596	769798	161879	95.8	101.0254	101.03		INF
PFUdA	M7PFUdA	4.369	610204	126970	94.4	100.3433	100.34		794

Quantitative Analysis Sample Report

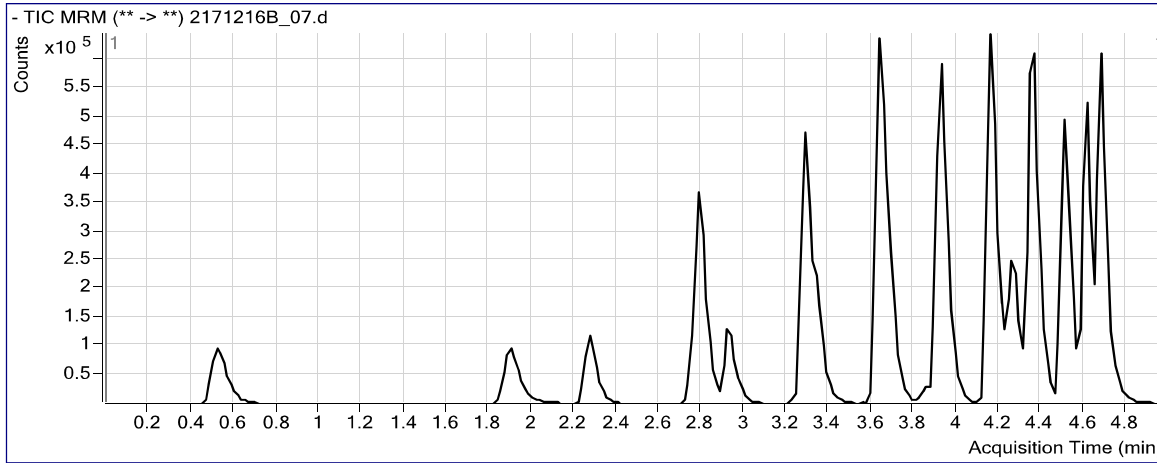
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_07.d **Position** Vial 7 **Samp Name** 1207 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** Calibration **Comment** MEG

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	133603		91.6	18.3234	91.62		588
M2PFHxA		2.798	214276		94.2	37.6744	94.19		11253
M2PFOA		3.652	145770		92.7	18.5480	92.74		2103
M4PFOS		3.951	34279		92.0	18.3934	91.97		3447
4:2 FTS	M2 4:2 FTS	2.759	134026	4577	97.4	191.9447	102.64		12109
6:2 FTS	M2 6:2 FTS	3.631	176583	7084	101.9	193.4628	101.82		7063
8:2 FTS	M2 8:2 FTS	4.150	144353	6902	96.2	192.9322	100.49		10655
FOSA-I	M8FOSA	4.292	610845	53522	97.4	203.8768	101.94		49323
LPFDS	M6PFDA	4.364	346417	115476	90.5	197.9755	102.58		33822
LPFHpS	M8PFOA	3.680	363101	127775	96.1	194.5623	102.40		34450
LPFNS	M9PFNA	4.165	357066	136609	94.5	191.9171	99.96		1153
LPFPeS	M5PFHxA	2.927	350210	93162	94.7	193.1300	102.73		23414
NEtFOSAA	d5-NEtFOSAA	4.349	161780	8415	89.2	208.7459	104.37		13654
NMeFOSAA	d3-NMeFOSAA	4.248	181062	5912	103.3	201.2126	100.61		5302
PFBA	MPFBA	0.525	475391	43016	94.0	203.5766	101.79		3105
PFBS	M3PFBS	2.274	333169	30470	94.8	180.9926	102.26		138516
PFDA	M6PFDA	4.169	1298403	115476	90.5	204.9499	102.47		7855
PFDoA	MPFDoA	4.514	1411206	141917	97.0	203.8898	101.94		1163
PFHpA	M4PFHpA	3.302	1373604	119243	95.0	203.5812	101.79		40562
PFHxA	M5PFHxA	2.799	982391	93162	94.7	204.1921	102.10		14262
PFHxS	M3PFHxS	3.349	295541	29752	95.4	187.2114	102.64		26333
PFNA	M9PFNA	3.935	1532860	136609	94.5	204.3507	102.18		12545
PFOA	M8PFOA	3.654	1500206	127775	96.1	203.1419	101.57		46563
PFOS	M8PFOS	3.952	368978	28035	94.9	192.0158	103.74		234
PFPeA	M5PFPeA	1.915	498968	44074	94.1	204.8192	102.41		7764
PFTeDA	M2PFTeDA	4.679	1591661	168378	99.7	200.8206	100.41		2447
PFTTrDA	M2PFTeDA	4.613	1591563	168378	99.7	200.8098	100.40		INF
PFUdA	M7PFUdA	4.369	1304798	124296	92.4	199.9467	99.97		INF

Form 6I

ICAL Verifications

Quantitative Analysis Sample Report

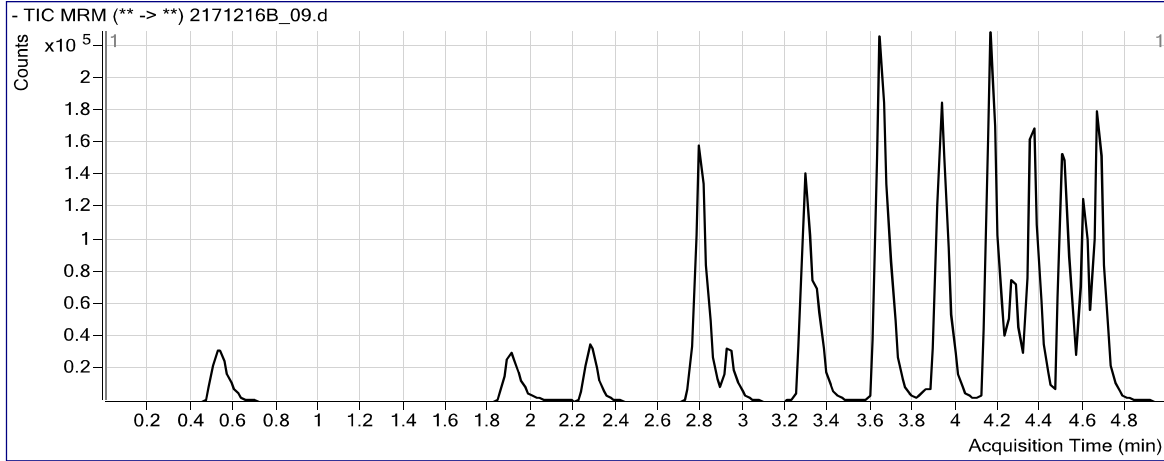
Batch Data Path
Acquisition Time

D:\MassHunter\Data\2171216BCAL\QuantResults\2171219A.batch.bin
#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171216B_09.d **Position** Vial 9 **Samp Name** 1600 **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	153340		105.2	21.0302	105.15		6495
M2PFHxA		2.798	234072		102.9	41.1549	102.89		11490
M2PFOA		3.652	159708		101.6	20.3215	101.61		2002
M4PFOS		3.951	38675		103.8	20.7523	103.76		236
4:2 FTS	M2 4:2 FTS	2.759	30916	5444	115.8	37.2246	79.62		988
6:2 FTS	M2 6:2 FTS	3.631	46382	7996	115.1	45.0184	94.78		1666
8:2 FTS	M2 8:2 FTS	4.167	36658	7637	106.4	44.2765	92.24		895
FOSA-I	M8FOSA	4.292	148362	59261	107.9	44.7219	89.44		217649
LPFDS	M6PFDA	4.364	81013	135875	106.4	39.3476	81.55		9344
LPFHpS	M8PFOA	3.680	89120	143980	108.2	42.3790	89.22		6955
LPFNS	M9PFNA	4.165	83354	156945	108.6	45.2129	94.19		1283
LPFPeS	M5PFHxA	2.927	85459	106247	108.0	41.3238	87.92		4263
NEtFOSAA	d5-NEtFOSAA	4.349	39449	9159	97.1	46.7662	93.53		324
NMeFOSAA	d3-NMeFOSAA	4.248	42147	6928	121.0	39.9675	79.93		3612
PFBA	MPFBA	0.525	124253	48758	106.5	46.9426	93.89		1657
PFBS	M3PFBS	2.274	84528	34170	106.3	40.9472	92.54		632
PFDA	M6PFDA	4.169	326695	135875	106.4	43.8260	87.65		820
PFDoA	MPFDoA	4.497	363572	156258	106.8	47.7075	95.41		INF
PFHpA	M4PFHpA	3.302	323436	133795	106.5	42.7226	85.45		16222
PFHxA	M5PFHxA	2.799	235575	106247	108.0	42.9346	85.87		2536
PFHxS	M3PFHxS	3.366	78468	33811	108.4	43.7392	95.92		6018
PFNA	M9PFNA	3.935	359558	156945	108.6	41.7227	83.45		715
PFOA	M8PFOA	3.654	376026	143980	108.2	45.1865	90.37		INF
PFOS	M8PFOS	3.952	89406	32423	109.7	40.2300	86.93		206
PFPeA	M5PFPeA	1.915	110213	50776	108.5	39.2692	78.54		1593
PFTeDA	M2PFTeDA	4.662	366298	180416	106.8	43.1322	86.26		7918
PFTrDA	M2PFTeDA	4.596	369244	180416	106.8	43.4795	86.96		1775
PFUdA	M7PFUdA	4.369	274096	142259	105.8	42.6042	85.21		1091

Form 7E

CCAL Verifications

Quantitative Analysis Sample Report

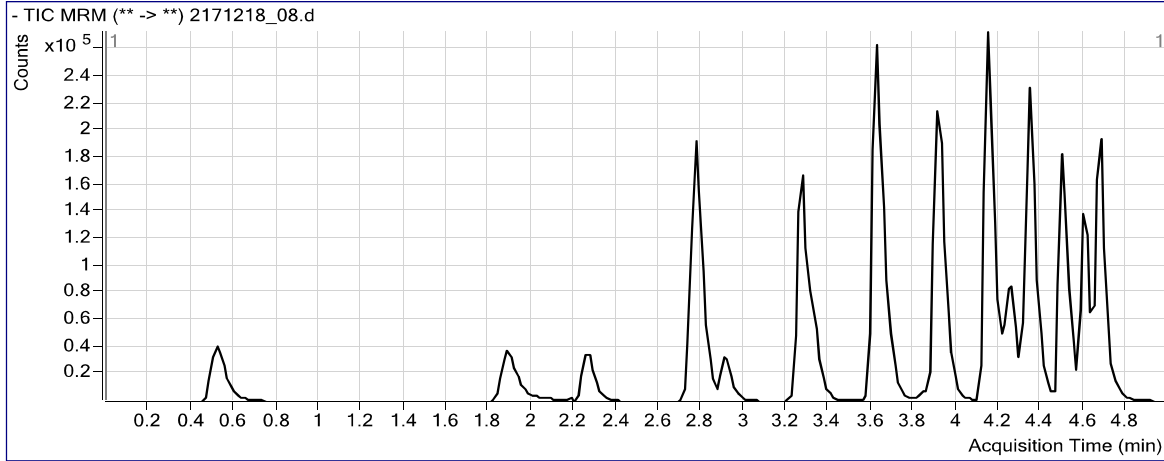
Batch Data Path
Acquisition Time

D:\MassHunter\Data\2171216BCAL\QuantResults\2171218A.batch.bin
#REF! **Last Calib Update** 12/19/2017 9:28

Analysis Info

Data File 2171218_08.d **Position** Vial 8 **Samp Name** CCV 50 ppb **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.152	176100		120.8	24.1518	120.76		1520
M2PFHxA		2.781	276172		121.4	48.5570	121.39		9182
M2PFOA		3.634	187978		119.6	23.9187	119.59		8008
M4PFOS		3.932	41473		111.3	22.2535	111.27		1291
4:2 FTS	M2 4:2 FTS	2.742	40740	6531	139.0	40.8870	87.46		2985
6:2 FTS	M2 6:2 FTS	3.614	55270	9862	141.9	43.4989	91.58		2112
8:2 FTS	M2 8:2 FTS	4.150	49538	9946	138.6	45.9420	95.71		2886
FOSA-I	M8FOSA	4.275	155359	62917	114.5	44.1096	88.22		10401
LPFDS	M6PFDA	4.347	91199	158605	124.3	37.9469	78.65		118443
LPFHpS	M8PFOA	3.663	92871	162110	121.9	39.2233	82.58		8690
LPFNS	M9PFNA	4.165	95145	176042	121.8	45.9724	95.78		6978
LPFPeS	M5PFHxA	2.908	84384	120654	122.7	35.9317	76.45		3225
NETFOSAA	d5-NETFOSAA	4.332	55634	13006	137.8	46.4466	92.89		6507
NMeFOSAA	d3-NMeFOSAA	4.248	63107	8268	144.4	50.1435	100.29		4214
PFBA	MPFBA	0.525	151055	63378	138.5	43.9039	87.81		836
PFBS	M3PFBS	2.258	84507	36381	113.2	38.4494	86.89		7281
PFDA	M6PFDA	4.152	368415	158605	124.3	42.3398	84.68		3452
PFDoA	MPFDoA	4.497	382226	173435	118.5	45.1880	90.38		4349
PFHpA	M4PFHpA	3.286	389593	156174	124.4	44.0872	88.17		11617
PFHxA	M5PFHxA	2.783	275060	120654	122.7	44.1448	88.29		2843
PFHxS	M3PFHxS	3.332	73204	35549	114.0	38.8101	85.11		5340
PFNA	M9PFNA	3.918	418539	176042	121.8	43.2983	86.60		INF
PFOA	M8PFOA	3.634	420573	162110	121.9	44.8874	89.77		INF
PFOS	M8PFOS	3.933	94201	33768	114.3	40.6982	87.94		111
PFPeA	M5PFPeA	1.893	151567	61025	130.4	44.9345	89.87		INF
PFTeDA	M2PFTeDA	4.679	398459	186750	110.5	45.3279	90.66		INF
PFTTrDA	M2PFTeDA	4.596	418756	186750	110.5	47.6373	95.27		INF
PFUdA	M7PFUdA	4.352	360539	157001	116.7	50.3780	100.76		INF

Quantitative Analysis Sample Report

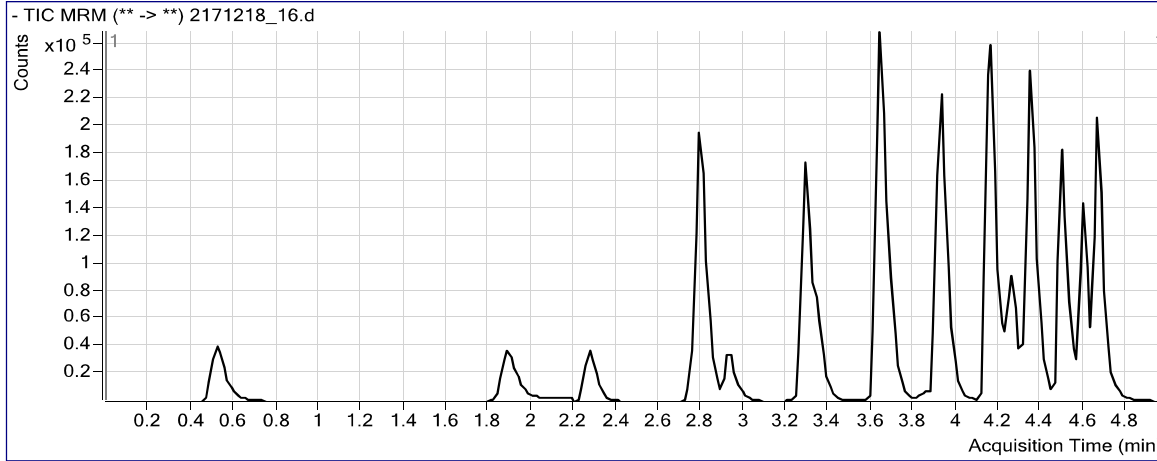
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/19/2017 9:28

Analysis Info

Data File 2171218_16.d **Position** Vial 16 **Samp Name** CCV 50 ppb **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	177023		121.4	24.2784	121.39		11871
M2PFHxA		2.798	281052		123.5	49.4150	123.54		5195
M2PFOA		3.652	190118		121.0	24.1909	120.95		9514
M4PFOS		3.951	42332		113.6	22.7144	113.57		2992
4:2 FTS	M2 4:2 FTS	2.759	42392	6557	139.5	42.3738	90.64		1902
6:2 FTS	M2 6:2 FTS	3.631	55708	9828	141.4	43.9950	92.62		2805
8:2 FTS	M2 8:2 FTS	4.150	46717	10064	140.2	42.8208	89.21		2697
FOSA-I	M8FOSA	4.275	152922	64118	116.7	42.6045	85.21		149968
LPFDS	M6PFDA	4.347	94034	158640	124.3	39.1181	81.07		88820
LPFHpS	M8PFOA	3.680	91468	166944	125.5	37.5122	78.97		12499
LPFNS	M9PFNA	4.165	94133	177965	123.1	45.0375	93.83		8232
LPFPeS	M5PFHxA	2.944	88819	123709	125.8	36.8862	78.48		13476
NEtFOSAA	d5-NEtFOSAA	4.349	55564	14019	148.6	43.0364	86.07		1260
NMeFOSAA	d3-NMeFOSAA	4.248	62342	8009	139.9	51.1372	102.27		2079
PFBA	MPFBA	0.525	145374	60819	132.9	44.0303	88.06		741
PFBS	M3PFBS	2.274	84530	37014	115.1	37.8025	85.43		9758
PFDA	M6PFDA	4.169	372026	158640	124.3	42.7455	85.49		1018
PFDoA	MPFDoA	4.497	369325	170906	116.8	44.3088	88.62		2685
PFHpA	M4PFHpA	3.302	391374	156258	124.4	44.2650	88.53		14774
PFHxA	M5PFHxA	2.799	279743	123709	125.8	43.7878	87.58		3611
PFHxS	M3PFHxS	3.349	72845	35318	113.2	38.8718	85.25		1280
PFNA	M9PFNA	3.935	433438	177965	123.1	44.3552	88.71		INF
PFOA	M8PFOA	3.654	430089	166944	125.5	44.5739	89.15		INF
PFOS	M8PFOS	3.952	95942	34155	115.6	40.9809	88.55		164
PFPeA	M5PFPeA	1.893	150193	60559	129.4	44.8698	89.74		INF
PFTeDA	M2PFTeDA	4.662	398461	190682	112.9	44.3935	88.79		INF
PFTrDA	M2PFTeDA	4.596	407658	190682	112.9	45.4185	90.84		INF
PFUdA	M7PFUdA	4.352	361715	160043	119.0	49.6197	99.24		894

Quantitative Analysis Sample Report

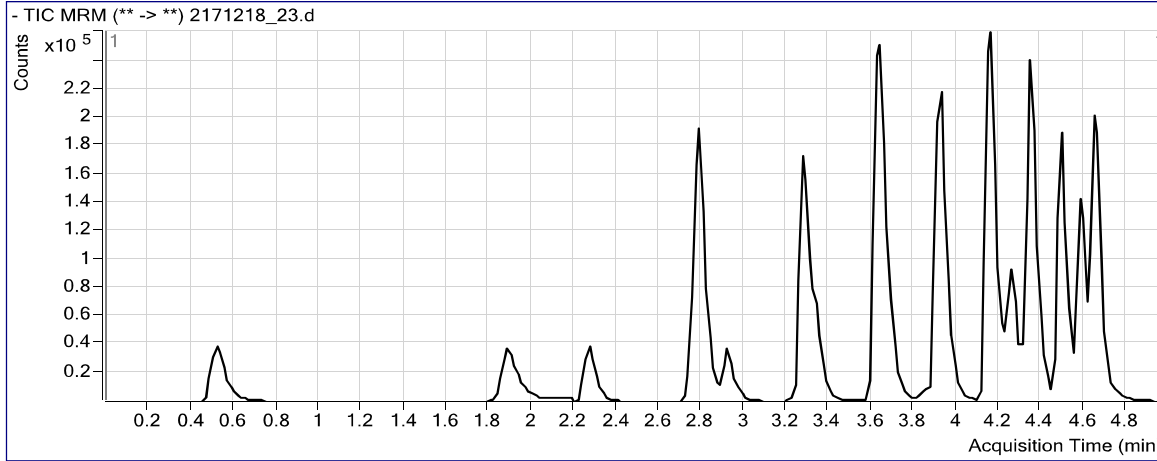
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/19/2017 9:28

Analysis Info

Data File 2171218_23.d **Position** Vial 23 **Samp Name** CCV 50 ppb **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	178062		122.1	24.4208	122.10		29170
M2PFHxA		2.798	281907		123.9	49.5653	123.91		12913
M2PFOA		3.652	192006		122.2	24.4312	122.16		10092
M4PFOS		3.951	43448		116.6	23.3135	116.57		1016
4:2 FTS	M2 4:2 FTS	2.759	43176	6814	145.0	41.5281	88.83		1205
6:2 FTS	M2 6:2 FTS	3.631	58560	9944	143.1	45.7066	96.22		542
8:2 FTS	M2 8:2 FTS	4.150	50743	10309	143.6	45.4057	94.60		INF
FOSA-I	M8FOSA	4.275	159097	65517	119.3	43.3785	86.76		143754
LPFDS	M6PFDA	4.347	93532	159887	125.3	38.6057	80.01		32684
LPFHpS	M8PFOA	3.680	95516	167526	125.9	39.0363	82.18		23642
LPFNS	M9PFNA	4.165	93020	183085	126.6	43.3403	90.29		77016
LPFPeS	M5PFHxA	2.927	88097	122074	124.1	37.0764	78.89		4332
NEtFOSAA	d5-NEtFOSAA	4.349	56051	13796	146.2	44.1142	88.23		6257
NMeFOSAA	d3-NMeFOSAA	4.248	64060	8366	146.1	50.3071	100.61		11965
PFBA	MPFBA	0.525	141710	59971	131.0	43.5272	87.05		721
PFBS	M3PFBS	2.274	86169	37406	116.3	38.1310	86.17		15536
PFDA	M6PFDA	4.152	379328	159887	125.3	43.2446	86.49		2533
PFDoA	MPFDoA	4.497	386193	177412	121.2	44.6335	89.27		22671
PFHpA	M4PFHpA	3.286	403548	159444	127.0	44.7300	89.46		12281
PFHxA	M5PFHxA	2.799	282249	122074	124.1	44.7716	89.54		3036
PFHxS	M3PFHxS	3.349	74690	35993	115.4	39.1091	85.77		1749
PFNA	M9PFNA	3.918	443559	183085	126.6	44.1215	88.24		816
PFOA	M8PFOA	3.654	433404	167526	125.9	44.7614	89.52		16002
PFOS	M8PFOS	3.952	94523	34000	115.1	40.5586	87.64		193
PFPeA	M5PFPeA	1.893	151064	60555	129.4	45.1328	90.27		INF
PFTeDA	M2PFTeDA	4.645	428526	192697	114.1	47.2437	94.49		INF
PFTTrDA	M2PFTeDA	4.580	434547	192697	114.1	47.9079	95.82		43706
PFUdA	M7PFUdA	4.352	370064	166854	124.1	48.7365	97.47		16044

Quantitative Analysis Sample Report

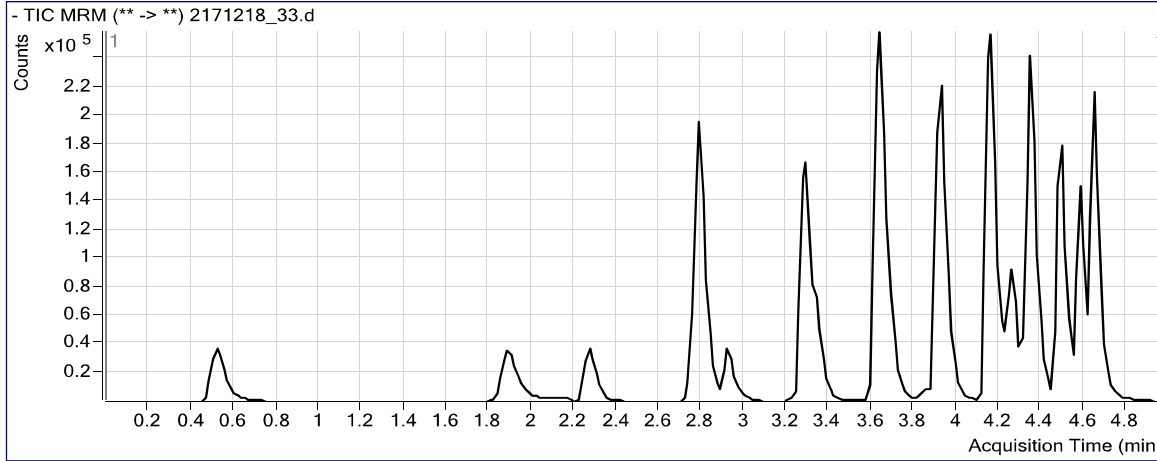
Batch Data Path
Acquisition Time

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#REF! **Last Calib Update** 12/19/2017 9:28

Analysis Info

Data File 2171218_33.d **Position** Vial 33 **Samp Name** CCV 50 ppb **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.168	174996		120.0	24.0004	120.00		10319
M2PFHxA		2.798	279977		123.1	49.2261	123.07		12138
M2PFOA		3.652	190859		121.4	24.2852	121.43		8269
M4PFOS		3.951	42776		114.8	22.9528	114.76		601
4:2 FTS	M2 4:2 FTS	2.759	42436	6744	143.5	41.2450	88.22		379
6:2 FTS	M2 6:2 FTS	3.631	56955	9995	143.8	44.2265	93.11		INF
8:2 FTS	M2 8:2 FTS	4.150	48894	10365	144.4	43.5151	90.66		2089
FOSA-I	M8FOSA	4.275	157974	65211	118.7	43.2744	86.55		233067
LPFDS	M6PFDA	4.347	95515	155487	121.8	40.5396	84.02		1114
LPFHpS	M8PFOA	3.680	92960	164691	123.8	38.6458	81.36		28847
LPFNS	M9PFNA	4.165	92638	175869	121.7	44.8590	93.46		138116
LPFPeS	M5PFHxA	2.927	88285	121497	123.5	37.3322	79.43		786
NEtFOSAA	d5-NEtFOSAA	4.349	54558	13886	147.2	42.6611	85.32		3221
NMeFOSAA	d3-NMeFOSAA	4.248	62806	7955	139.0	51.8667	103.73		4090
PFBA	MPFBA	0.525	135316	56345	123.1	44.2384	88.48		786
PFBS	M3PFBS	2.274	85734	37312	116.1	38.0344	85.95		4301
PFDA	M6PFDA	4.169	379699	155487	121.8	44.5116	89.02		4606
PFDoA	MPFDoA	4.497	389401	171577	117.2	46.5348	93.07		INF
PFHpA	M4PFHpA	3.302	398533	158055	125.9	44.5622	89.12		4607
PFHxA	M5PFHxA	2.799	279789	121497	123.5	44.5922	89.18		743
PFHxS	M3PFHxS	3.349	74690	36555	117.2	38.5081	84.45		1034
PFNA	M9PFNA	3.935	442819	175869	121.7	45.8552	91.71		1551
PFOA	M8PFOA	3.654	435898	164691	123.8	45.7940	91.59		2663
PFOS	M8PFOS	3.952	96010	33872	114.6	41.3530	89.35		175
PFPeA	M5PFPeA	1.893	147215	60135	128.5	44.2902	88.58		419
PFTeDA	M2PFTeDA	4.645	412974	188489	111.6	46.5457	93.09		INF
PFTrDA	M2PFTeDA	4.580	412065	188489	111.6	46.4435	92.89		1166
PFUdA	M7PFUdA	4.352	367362	163581	121.6	49.3196	98.64		6545

Quantitative Analysis Sample Report

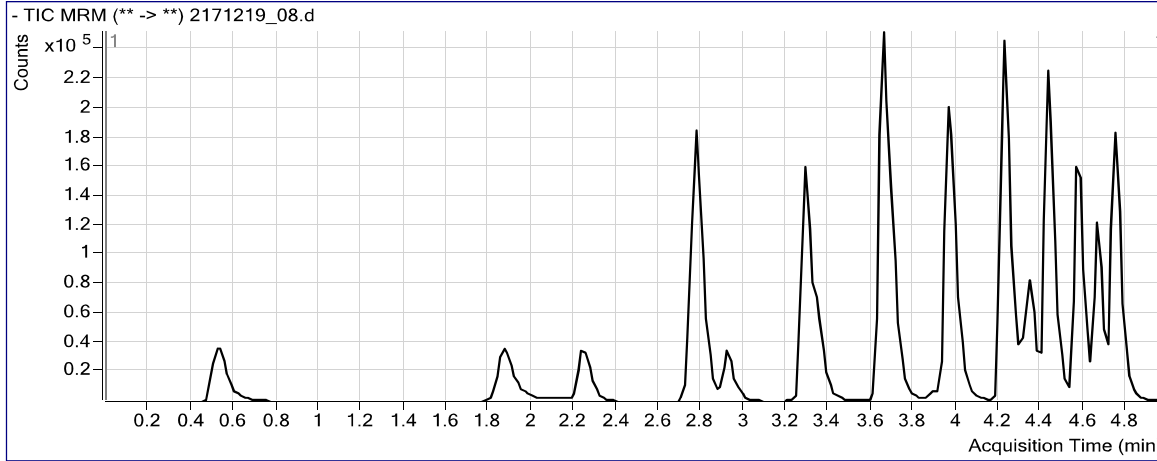
Batch Data Path
Acquisition Time

D:\MassHunter\Data\2171216BCAL\QuantResults\2171219A.batch.bin
#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171219_08.d **Position** Vial 8 **Samp Name** CCV 50 ppb **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.237	165368		113.4	22.6799	113.40		9844
M2PFHxA		2.781	270924		119.1	47.6343	119.09		16754
M2PFOA		3.669	184694		117.5	23.5008	117.50		9798
M4PFOS		3.986	40147		107.7	21.5421	107.71		1310
4:2 FTS	M2 4:2 FTS	2.742	42315	6584	140.1	42.1224	90.10		1689
6:2 FTS	M2 6:2 FTS	3.649	54642	9971	143.5	42.5350	89.55		601
8:2 FTS	M2 8:2 FTS	4.217	46114	10170	141.7	41.8263	87.14		851
FOSA-I	M8FOSA	4.359	150331	56532	102.9	47.5032	95.01		488
LPFDS	M6PFDA	4.447	93409	149046	116.8	41.3592	85.72		207
LPFHpS	M8PFOA	3.696	92767	162379	122.1	39.1146	82.35		7538
LPFNS	M9PFNA	4.234	92448	173636	120.1	45.3201	94.42		101014
LPFPeS	M5PFHxA	2.927	85711	119850	121.9	36.7418	78.17		2713
NEtFOSAA	d5-NEtFOSAA	4.432	59063	12867	136.4	49.8422	99.68		226
NMeFOSAA	d3-NMeFOSAA	4.333	62518	8234	143.8	49.8819	99.76		2278
PFBA	MPFBA	0.525	139918	59364	129.7	43.4162	86.83		409
PFBS	M3PFBS	2.241	86399	36704	114.2	38.9640	88.05		6919
PFDA	M6PFDA	4.237	344523	149046	116.8	42.1335	84.27		INF
PFDoA	MPFDoA	4.566	370623	166687	113.9	45.5900	91.18		INF
PFHpA	M4PFHpA	3.302	371159	148889	118.6	44.0563	88.11		INF
PFHxA	M5PFHxA	2.783	274151	119850	121.9	44.2941	88.59		319
PFHxS	M3PFHxS	3.366	71916	34039	109.1	39.8183	87.32		5964
PFNA	M9PFNA	3.971	413585	173636	120.1	43.3788	86.76		3851
PFOA	M8PFOA	3.670	416691	162379	122.1	44.3994	88.80		7122
PFOS	M8PFOS	3.987	93971	34440	116.6	39.8073	86.01		58
PFPeA	M5PFPeA	1.877	143953	60216	128.6	43.2502	86.50		321
PFTeDA	M2PFTeDA	4.746	372803	171637	101.6	46.1434	92.29		4183
PFTTrDA	M2PFTeDA	4.664	364766	171637	101.6	45.1490	90.30		14699
PFUdA	M7PFUdA	4.436	347599	156006	116.0	48.9505	97.90		INF

Quantitative Analysis Sample Report

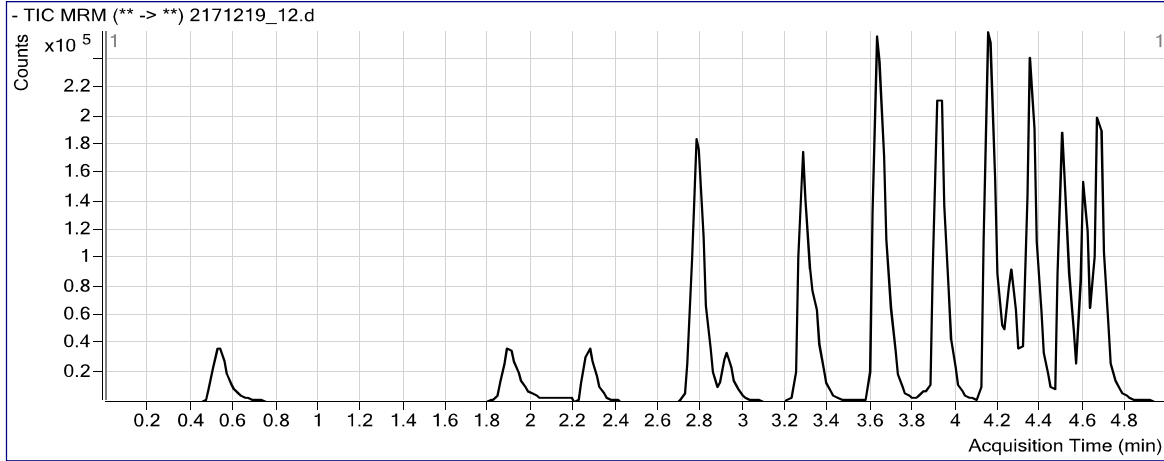
Batch Data Path
Acquisition Time

D:\MassHunter\Data\2171216BCAL\QuantResults\2171219A.batch.bin
#REF! **Last Calib Update** 12/20/2017 8:53

Analysis Info

Data File 2171219_12.d **Position** Vial 12 **Samp Name** CCV 50 ppb **Dilution** 1
Acq Method Zinkl QSM 5.1AccucoreC **Inj Vol** 2 **Samp Type** QC **Comment** MEG

Sample Chromatogram



Quantitation Results

Spike Recovery Limits: 70 - 130% True Value: 50

Compound	ISTD	RT	Response	ISTD Resp	ISTD/Surr %Rec	Conc (ng/mL)	Spike %Rec	MInt	SNR
M2PFDA		4.152	173911		119.3	23.8516	119.26		14714
M2PFHxA		2.781	267447		117.6	47.0230	117.56		12738
M2PFOA		3.634	182838		116.3	23.2646	116.32		1565
M4PFOS		3.932	40526		108.7	21.7456	108.73		1728
4:2 FTS	M2 4:2 FTS	2.759	44681	6481	137.9	45.1861	96.65		212
6:2 FTS	M2 6:2 FTS	3.614	59555	9921	142.7	46.5925	98.09		2311
8:2 FTS	M2 8:2 FTS	4.150	48916	10224	142.4	44.1341	91.95		174
FOSA-I	M8FOSA	4.275	159086	65586	119.4	43.3298	86.66		282982
LPFDS	M6PFDA	4.347	94130	164921	129.2	37.6667	78.07		4653
LPFHpS	M8PFOA	3.663	95480	168097	126.4	38.8891	81.87		638
LPFNS	M9PFNA	4.165	92270	182707	126.4	43.0917	89.77		1676
LPFPeS	M5PFHxA	2.927	87321	125007	127.1	35.8878	76.36		4334
NEtFOSAA	d5-NEtFOSAA	4.349	57868	13983	148.2	44.9345	89.87		2532
NMeFOSAA	d3-NMeFOSAA	4.248	61662	7796	136.2	51.9633	103.93		5991
PFBA	MPFBA	0.525	141298	60304	131.7	43.1616	86.32		1152
PFBS	M3PFBS	2.274	85887	37603	117.0	37.8077	85.44		7622
PFDA	M6PFDA	4.152	384391	164921	129.2	42.4842	84.97		INF
PFDoA	MPFDoA	4.497	404359	182051	124.4	45.5422	91.08		15625
PFHpA	M4PFHpA	3.286	397032	160757	128.0	43.6481	87.30		INF
PFHxA	M5PFHxA	2.783	284549	125007	127.1	44.0774	88.15		1919
PFHxS	M3PFHxS	3.349	73688	35453	113.7	39.1716	85.90		4763
PFNA	M9PFNA	3.918	441948	182707	126.4	44.0523	88.10		2681
PFOA	M8PFOA	3.634	438606	168097	126.4	45.1448	90.29		4243
PFOS	M8PFOS	3.933	94759	34289	116.1	40.3174	87.12		155
PFPeA	M5PFPeA	1.893	155090	61604	131.6	45.5467	91.09		2595
PFTeDA	M2PFTeDA	4.662	432150	205347	121.5	44.7082	89.42		INF
PFTrDA	M2PFTeDA	4.596	444088	205347	121.5	45.9437	91.89		1355
PFUdA	M7PFUdA	4.352	380275	164069	122.0	50.8237	101.65		3277

8E
EXTRACTED INTERNAL STANDARD RECOVERY

Report No: 217120751

Recovery Limits: 50 - 150

Client Sample ID	GCAL										
	SampleID	EIS1 #	EIS2 #	EIS3 #	EIS4 #	EIS5 #	EIS6 #	EIS7 #			
I-NEC-MW43-P-17	21712075101	96	85	85	88	77	116	112			
I-NEC-MW43-P-17 MS	21712075102	104	75	75	77	69	106	104			
I-NEC-MW43-P-17 MSD	21712075103	96	80	75	78	70	106	106			
MW-T40-P-17	21712075104	63	99	92	101	106	90	83			
I-NEC-MW41-P-17	21712075105	67	98	94	99	102	91	91			
I-NE-MW44-P-17	21712075106	68	92	86	91	92	114	116			
I-NEC-MW34-P-17	21712075107	90	105	100	113	112	102	97			
I-NEC-MW42-P-17	21712075108	51	103	96	112	114	107	99			
EB120417	21712075109	92	103	100	111	110	110	108			
EB120517	21712075110	95	104	99	112	113	113	115			
FB120417	21712075111	92	104	99	114	111	112	104			
FB120517	21712075112	94	108	105	117	116	116	112			
Dup01	21712075113	77	107	102	109	113	85	80			
MB1755052	1755052	102	112	106	121	120	118	111			
LCS1755053	1755053	90	94	87	100	101	96	95			

Client Sample ID	GCAL										
	SampleID	EIS8 #	EIS9 #	EIS10 #	EIS11 #	EIS12 #	EIS13 #				
I-NEC-MW43-P-17	21712075101	101	90	106	102	303 *	330 *				
I-NEC-MW43-P-17 MS	21712075102	91	84	98	108	296 *	332 *				
I-NEC-MW43-P-17 MSD	21712075103	94	85	98	103	305 *	314 *				
MW-T40-P-17	21712075104	99	82	94	76	106	90				
I-NEC-MW41-P-17	21712075105	101	89	99	82	86	86				
I-NE-MW44-P-17	21712075106	104	89	106	104	195 *	254 *				
I-NEC-MW34-P-17	21712075107	109	95	105	90	125	117				
I-NEC-MW42-P-17	21712075108	107	96	108	86	115	114				
EB120417	21712075109	113	99	113	104	116	127				
EB120517	21712075110	112	102	113	105	124	137				
FB120417	21712075111	113	96	112	104	123	127				
FB120517	21712075112	114	102	119	104	135	122				
Dup01	21712075113	103	89	96	79	91	94				
MB1755052	1755052	119	111	119	106	128	133				
LCS1755053	1755053	98	88	95	93	119	113				

EIS1: M2PFTeDA EIS2: M3PFBS EIS3: M3PFHxS EIS4: M4PFHpA
EIS5: M5PFHxA EIS6: M6PFDA EIS7: M7PFUdA EIS8: M8PFOA
EIS9: M8PFOS EIS10: M9PFNA EIS11: MPFDaA EIS12: d3-NMeFOSAA
EIS13: d5-NEtFOSAA

FORM 8E - ORG

8E
EXTRACTED INTERNAL STANDARD RECOVERY

Report No: 217120751

Recovery Limits: 50 - 150

<i>Client Sample ID</i>	<i>GCAL</i>														
	<i>SampleID</i>	<i>EIS1</i>	#	<i>EIS2</i>	#	<i>EIS3</i>	#	<i>EIS4</i>	#	<i>EIS5</i>	#	<i>EIS6</i>	#	<i>EIS7</i>	#
LCSD1755054	1755054	90		95		93		105		103		101		98	

<i>Client Sample ID</i>	<i>GCAL</i>												
	<i>SampleID</i>	<i>EIS8</i>	#	<i>EIS9</i>	#	<i>EIS10</i>	#	<i>EIS11</i>	#	<i>EIS12</i>	#	<i>EIS13</i>	#
LCSD1755054	1755054	103		97		101		95		115		121	

- | | | | |
|--------------------|---------------|----------------------------|--------------------|
| EIS1: M2PFTeDA | EIS2: M3PFBS | EIS3: M3PFHxS | EIS4: M4PFHpA |
| EIS5: M5PFHxA | EIS6: M6PFDA | EIS7: M7PFUdA | EIS8: M8PFOA |
| EIS9: M8PFOS | EIS10: M9PFNA | EIS11: MPFD _o A | EIS12: d3-NMeFOSAA |
| EIS13: d5-NEtFOSAA | | | |

INSTRUMENT INTERNAL STANDARD RECOVERY

Report No: 217120751

Recovery Limits: 50 - 150

<i>Client Sample ID</i>	<i>GCAL</i>				<i>IIS1 #</i>	<i>IIS2 #</i>	<i>IIS3 #</i>	<i>IIS4 #</i>						
	<i>SampleID</i>	<i>IIS1 #</i>	<i>IIS2 #</i>	<i>IIS3 #</i>										
I-NEC-MW43-P-17	21712075101	115	81	99	86									
I-NEC-MW43-P-17 MS	21712075102	108	79	94	84									
I-NEC-MW43-P-17 MSD	21712075103	109	80	96	85									
MW-T40-P-17	21712075104	104	111	110	96									
I-NEC-MW41-P-17	21712075105	106	102	101	101									
I-NE-MW44-P-17	21712075106	118	98	107	98									
I-NEC-MW34-P-17	21712075107	111	115	109	103									
I-NEC-MW42-P-17	21712075108	113	115	109	103									
EB120417	21712075109	111	111	111	99									
EB120517	21712075110	113	112	112	105									
FB120417	21712075111	110	110	109	102									
FB120517	21712075112	109	113	111	100									
Dup01	21712075113	108	113	107	100									
MB1755052	1755052	105	106	102	102									
LCS1755053	1755053	99	103	101	93									
LCSD1755054	1755054	106	108	101	101									

EIS1: M2PFDA

EIS2: M2PFHxA

EIS3: M2PFOA

EIS4: M4PFOS

Run Logs

LCMS1 Run Log

Name	Data File	Type	Acq. Date-Time	Dil.	Comments
1201	2171216B_01.d	Cal	12/16/2017 14:17	1	
1202	2171216B_02.d	Cal	12/16/2017 14:26	1	
1203	2171216B_03.d	Cal	12/16/2017 14:36	1	
1204	2171216B_04.d	Cal	12/16/2017 14:45	1	
1205	2171216B_05.d	Cal	12/16/2017 14:54	1	
1206	2171216B_06.d	Cal	12/16/2017 15:04	1	
1207	2171216B_07.d	Cal	12/16/2017 15:13	1	
IBLK	2171216B_08.d	Sample	12/16/2017 15:22	1	
1600	2171216B_09.d	QC	12/16/2017 15:32	1	
ISC 5 ppb	2171216B_10.d	QC	12/16/2017 15:41	1	
IBLK	2171216B_11.d	Sample	12/16/2017 15:51	1	
21711221103	2171216B_12.d	Sample	12/16/2017 16:00	1	Failed 1 IIS, due to matrix interference, eg hits were so
IB	2171216B_13.d	Sample	12/16/2017 16:10	1	
21711221104	2171216B_14.d	Sample	12/16/2017 16:19	5	
IB	2171216B_15.d	Sample	12/16/2017 16:28	1	
21711221106	2171216B_16.d	Sample	12/16/2017 16:38	1	
IB	2171216B_17.d	Sample	12/16/2017 16:47	1	
21711221107	2171216B_18.d	Sample	12/16/2017 16:57	1	Failed high for M2 8:2 FTS, hit in sample, failed high for
IB	2171216B_19.d	Sample	12/16/2017 17:06	1	
21711221117	2171216B_20.d	Sample	12/16/2017 17:15	1	
IB	2171216B_21.d	Sample	12/16/2017 17:25	1	
21711221126	2171216B_22.d	Sample	12/16/2017 17:34	5	
IB	2171216B_23.d	Sample	12/16/2017 17:43	1	
21711221127	2171216B_24.d	Sample	12/16/2017 17:53	1	
IB	2171216B_25.d	Sample	12/16/2017 18:02	1	
CCV 50 ppb	2171216B_26.d	QC	12/16/2017 18:11	1	
21712013801	2171216B_27.d	Sample	12/16/2017 18:21	1	
21712013802	2171216B_28.d	Sample	12/16/2017 18:30	1	
21712013803	2171216B_29.d	Sample	12/16/2017 18:39	1	
21712013805	2171216B_30.d	Sample	12/16/2017 18:49	1	RR, Hits for PFHxS over ICAL, failed low for m2PFTeDA :
21712013807	2171216B_31.d	Sample	12/16/2017 18:58	1	RR, Hits for PFHxS over ICAL in previous sample
21712013808	2171216B_32.d	Sample	12/16/2017 19:08	1	RR, Hits for PFHxS over ICAL in previous sample
21712013809	2171216B_33.d	Sample	12/16/2017 19:17	1	RR, Hits for PFHxS over ICAL in previous sample
CCV 5 ppb	2171216B_34.d	QC	12/16/2017 19:26	1	
1754494	2171216B_35.d	Sample	12/16/2017 19:36	1	
1754495	2171216B_36.d	QC	12/16/2017 19:45	1	
1754496	2171216B_37.d	QC	12/16/2017 19:55	1	
21712067901	2171216B_38.d	Sample	12/16/2017 20:04	1	
21712067902	2171216B_39.d	Sample	12/16/2017 20:13	1	
21712067903	2171216B_40.d	Sample	12/16/2017 20:23	1	
21712067904	2171216B_41.d	Sample	12/16/2017 20:32	1	
21712067905	2171216B_42.d	Sample	12/16/2017 20:41	1	
21712067906	2171216B_43.d	Sample	12/16/2017 20:51	1	
21712067907	2171216B_44.d	Sample	12/16/2017 21:00	1	
CCV 50 ppb	2171216B_45.d	QC	12/16/2017 21:09	1	
21712067909	2171216B_46.d	Sample	12/16/2017 21:19	1	
21712067910	2171216B_47.d	Sample	12/16/2017 21:28	1	
21712067911	2171216B_48.d	Sample	12/16/2017 21:38	1	
21712067912	2171216B_49.d	Sample	12/16/2017 21:47	1	
21712067913	2171216B_50.d	Sample	12/16/2017 21:56	1	
21712067914	2171216B_51.d	Sample	12/16/2017 22:06	1	
21712067915	2171216B_52.d	Sample	12/16/2017 22:15	1	
21712067916	2171216B_53.d	QC	12/16/2017 22:25	1	
21712067917	2171216B_54.d	QC	12/16/2017 22:34	1	
21712067918	2171216B_55.d	Sample	12/16/2017 22:44	1	
CCV 50 ppb	2171216B_56.d	QC	12/16/2017 22:53	1	
21712067919	2171216B_57.d	Sample	12/16/2017 23:02	1	
21712067920	2171216B_58.d	Sample	12/16/2017 23:12	1	
21711221305	2171216B_59.d	Sample	12/16/2017 23:21	1	
21712017307	2171216B_60.d	Sample	12/16/2017 23:31	1	
CCV 50 ppb	2171216B_61.d	QC	12/16/2017 23:40	1	

Analyst:	MEG	Expiration
Batch:	2171216B	Date
20mM Amm Acetate	005-28-3	12/17/2017
Methanol	2126416	6/30/2022
Calibration Std	005-27-8	6/12/2018
ICV Std	005-24-5	5/7/2018
EIS Mix	005-28-4	6/17/2018

LCMS1 Run Log

Name	Data File	Type	Acq. Date-Time	Dil.	Comments
ISC 5 ppb	2171218_01.d	QC	12/18/2017 10:55	1	
IBLK	2171218_02.d	Sample	12/18/2017 11:14	1	
21712013805	2171218_03.d	Sample	12/18/2017 11:29	5	
21712013807	2171218_04.d	Sample	12/18/2017 11:39	1	
21712013808	2171218_05.d	Sample	12/18/2017 12:12	1	
21712013809	2171218_06.d	Sample	12/18/2017 12:21	1	
21711221104	2171218_07.d	Sample	12/18/2017 12:30	100	
CCV 50 ppb	2171218_08.d	QC	12/18/2017 12:40	1	
1755052	2171218_09.d	Sample	12/18/2017 12:49	1	
1755053	2171218_10.d	QC	12/18/2017 12:59	1	
1755054	2171218_11.d	QC	12/18/2017 13:08	1	
21712067908	2171218_12.d	Sample	12/18/2017 13:17	1	
21712067921	2171218_13.d	Sample	12/18/2017 13:27	1	
21712067922	2171218_14.d	Sample	12/18/2017 13:36	1	
21712067923	2171218_15.d	Sample	12/18/2017 13:45	1	
CCV 50 ppb	2171218_16.d	QC	12/18/2017 13:55	1	
21712075101	2171218_17.d	Sample	12/18/2017 14:04	5	
IB	2171218_18.d	Sample	12/18/2017 14:13	1	
21712075109	2171218_19.d	Sample	12/18/2017 14:23	1	
21712075110	2171218_20.d	Sample	12/18/2017 14:32	1	
21712075111	2171218_21.d	Sample	12/18/2017 14:41	1	
21712075112	2171218_22.d	Sample	12/18/2017 14:51	1	
CCV 50 ppb	2171218_23.d	QC	12/18/2017 15:00	1	
21712075101	2171218_24.d	Sample	12/18/2017 15:09	1	RR, High ESI for NMeFOSAA and NetFOSAA, hits in sample
21712075102	2171218_25.d	QC	12/18/2017 15:19	1	RR, High ESI for NMeFOSAA and NetFOSAA, hits in sample
21712075103	2171218_26.d	QC	12/18/2017 15:28	1	RR, High ESI for NMeFOSAA and NetFOSAA, hits in sample
21712075104	2171218_27.d	Sample	12/18/2017 15:37	1	
21712075105	2171218_28.d	Sample	12/18/2017 15:47	1	
21712075106	2171218_29.d	Sample	12/18/2017 15:56	1	High d3 NMeFOSAA and d5 NetFOSAA, no hits in sample
21712075107	2171218_30.d	Sample	12/18/2017 16:05	1	
21712075108	2171218_31.d	Sample	12/18/2017 16:15	1	
21712075113	2171218_32.d	Sample	12/18/2017 16:24	1	
CCV 50 ppb	2171218_33.d	QC	12/18/2017 16:34	1	
21712094201	2171218_34.d	Sample	12/18/2017 16:43	1	
21712094202	2171218_35.d	Sample	12/18/2017 16:52	1	
21712094203	2171218_36.d	Sample	12/18/2017 17:02	1	
21712063201	2171218_37.d	Sample	12/18/2017 17:11	1	
21712063202	2171218_38.d	Sample	12/18/2017 17:20	1	
CCV 50 ppb	2171218_39.d	QC	12/18/2017 17:30	1	
1756649	2171218_40.d	Sample	12/18/2017 17:39	1	
1756650	2171218_41.d	QC	12/18/2017 17:49	1	
1756651	2171218_42.d	QC	12/18/2017 17:58	1	
21710042701	2171218_43.d	QC	12/18/2017 18:07	1	
21710042702	2171218_44.d	QC	12/18/2017 18:16	1	
CCV 50 ppb	2171218_45.d	QC	12/18/2017 18:26	1	
21711100907	2171218_46.d	Sample	12/18/2017 18:35	1	RR, Hits over ICAL
CCV 50 ppb	2171218_47.d	QC	12/18/2017 18:45	1	

Analyst:	MEG	Expiration
Batch:	2171218A	Date
20mM Amm Acetate	005-28-5	12/20/2017
Methanol	2126416	6/30/2022
Calibration Std	005-27-8	6/12/2018
ICV Std	005-24-5	5/7/2018
EIS Mix	005-28-4	6/17/2018

LCMS1 Run Log

Name	Data File	Type	Acq. Date-Time	Dil.	Comments
ISC 5 ppb	2171219_01.d	QC	12/19/2017 9:21	1	
IBLK	2171219_02.d	Sample	12/19/2017 9:44	1	
21712075101	2171219_04.d	Sample	12/19/2017 10:18	1	Confirms past result
21712075102	2171219_05.d	QC	12/19/2017 10:27	1	Confirms past result
21712075103	2171219_06.d	QC	12/19/2017 10:37	1	Confirms past result
21711100907	2171219_07.d	Sample	12/19/2017 10:46	20	
CCV 50 ppb	2171219_08.d	QC	12/19/2017 10:55	1	
21712075108	2171219_11.d	Sample	12/19/2017 14:06	1	
CCV 50 ppb	2171219_12.d	QC	12/19/2017 14:56	1	
CCV 5 ppb	2171219_14.d	QC	12/19/2017 17:06	1	
1755794	2171219_15.d	Sample	12/19/2017 17:16	1	
1755795	2171219_16.d	QC	12/19/2017 17:25	1	
1755796	2171219_17.d	QC	12/19/2017 17:35	1	
21712127001	2171219_18.d	Sample	12/19/2017 17:44	1	
21712127002	2171219_19.d	Sample	12/19/2017 17:53	1	
21712127003	2171219_20.d	Sample	12/19/2017 18:02	1	
21712127004	2171219_21.d	Sample	12/19/2017 18:12	1	
21712127005	2171219_22.d	Sample	12/19/2017 18:21	1	
21712127006	2171219_23.d	QC	12/19/2017 18:30	1	
21712127007	2171219_24.d	QC	12/19/2017 18:40	1	
CCV 50 ppb	2171219_25.d	QC	12/19/2017 18:49	1	
21712127008	2171219_26.d	Sample	12/19/2017 18:58	1	
21712127009	2171219_27.d	Sample	12/19/2017 19:07	1	
21712127010	2171219_28.d	Sample	12/19/2017 19:17	1	
21712127011	2171219_29.d	Sample	12/19/2017 19:26	1	RP, double spiked
21712127012	2171219_30.d	Sample	12/19/2017 19:36	1	
21712127013	2171219_31.d	Sample	12/19/2017 19:45	1	
21712144501	2171219_32.d	Sample	12/19/2017 19:54	1	Hit for PFOS in FBLK, hit below LOQ
CCV 50 ppb	2171219_33.d	QC	12/19/2017 20:04	1	

Analyst:	MEG	Expiration
Batch:	2171219A	Date
20mM Amm Acetate	005-28-5	12/20/2017
Methanol	2126416	6/30/2022
Calibration Std	005-27-8	6/12/2018
ICV Std	005-24-5	5/7/2018
EIS Mix	005-28-4	6/17/2018

PrepSheets



537 Water Extraction



START DATE/TIME	12/14/2017 0915	END DATE/TIME	1415 2/11/2017	BATCH	625065
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#	CLIENT	TYPE	CLIENT ID	GCAL ID	INITIAL VOL (mL)	FINAL VOL (mL)	COMMENT	STANDARDS/ REAGENTS
1	QC	MB	MB 1755052	1755052	500	1.0		PFAC24 (LCS) Spike - 250ul 125ul
2	QC	LCS	LCS 1755053	1755053	500	1.0		005-27-8
3	QC	LCSD	LCSD 1755054	1755054	500	1.0		MPFAC (EIS) Spike - 200ul
4	4380	SAMP	CHPE04014J-O1017	21712067908	560	1.0		005-28-1
5	4380	SAMP	CHTE0589B-O0817	21712067921	580	1.0		Inst IS Spike - 10ul
6	4380	SAMP	CHTE01004-Q1217P	21712067922	580	1.0		005-27-9
7	4380	SAMP	CHTE01001-Q1217	21712067923	580	1.0		UHPLC Methanol
8	4841	SAMP	I-NEC-MW43-P-17	21712075101	500	1.0		2126416
9	4841	MS	I-NEC-MW43-P-17 MS	21712075102	530	1.0		Basic Methanol
10	4841	MSD	I-NEC-MW43-P-17 MSD	21712075103	520	1.0		005-27-7
11	4841	SAMP	MW-T40-P-17	21712075104	530	1.0		
12	4841	SAMP	I-NEC-MW41-P-17	21712075105	510	1.0		
13	4841	SAMP	I-NE-MW44-P-17	21712075106	530	1.0		SPE
14	4841	SAMP	I-NEC-MW34-P-17	21712075107	510	1.0		5308 0078
15	4841	SAMP	I-NEC-MW42-P-17	21712075108	500	1.0		ENVI-CARB
16	4841	EQBK	EB120417	21712075109	540	1.0		4309602V
17	4841	EQBK	EB120517	21712075110	540	1.0		
18	4841	FB	FB120417	21712075111	540	1.0		
19	4841	FB	FB120517	21712075112	550	1.0		
20	4841	FD	Dup01	21712075113	540	1.0		
21	4947	SAMP	WURTS-VAS15005-53-58-171206	21712094201	480	1.0	Low Vol	
22	4947	SAMP	WURTS-VAS15011-51-56-171201	21712094202	500	1.0	OK	
23	4947	SAMP	WURTS-VAS15012-53-58-171206	21712094203	480	1.0	Low Vol	
24								
25								
26								
27								
28								

NOTES

Sample preparation includes determination of weight, solvent extraction and centrifugation, ENVI-CARB cleanup, and evaporation of solvent to <1.0ml. Final volume is adjusted to 1.0ml with methanol.

EQUIPMENT/CONDITIONS

BALANCE ID	HEATER ID	TEMPERATURE
N/A	NB-02	40°C

REVIEW

TECHNICIAN/DATE	SUPERVISOR/DATE
MEG 12-15-17	RSO 12/18/17

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD



EnSafe Inc. 800-588-7962

Project Name: PFAS NOS Louisville
 Site Location: Louisville, KY

Sampler: Jeremy London & Cody Manday

Send Results To: David Doyle & Tina Cantwell Email: ddoyle@ensafe.com

Data Shipping Address: email to David Doyle

COC No. 12-06-17-01 Page 1 of 1
 PO No. 24154

Project No. 08887342 Phase PP Task PM
 Lab Name GCAL

Sample Analysis Requested (Fill in the number of containers for each test)

Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	Deliverable (check):	Level 2	Level 3	Level 4	TX TRRP-13	Remarks
I-NEC-MW43P-17	I-NEC-MW43P	12/04/17	1210	WG	N	N	6						MS/MSD 1,2,3
MW-T40-P-17	MW-T40-P	12/04/17	1450				2						-4
I-NEC-MW41-P-17	I-NEC-MW41-P	12/05/17	1130				2						-5
I-NE-MW44-P-17	I-NE-MW44-P	12/05/17	1240				2						-6
I-NEC-MW34-P-17	I-NEC-MW34-P	12/04/17	1628				2						-7
I-NEC-MW42-P-17	I-NEC-MW42-P	12/04/17	1344				2						-8
EB120417		12/04/17	1315	WQ	EB		1						Equipment Blank
FB120517		12/05/17	1010		EB		2						↓ -10
FB120417		12/04/17	1320		FB		1						Field Blank
FB120517		12/05/17	1005		FB		2						↓ -12
Dup01	MW-T40-P	12/04/17	1450	WQ	FD	N	2						-13

Turnaround Time(specify): Final days Email (if applicable) 14 days Email Results(check): Yes No

Lab Comments: 0.110.3 ED4 37,53 CPM

Relinquished by (signature) Date Time

1 [Signature] 12-6-17 / 1600

2 [Signature] 12-7-17 1010

3

Sample Shipment and Delivery Details

Number of coolers in shipment: 2

Samples Iced?(check) Yes No

Method of Shipment: FedEx

Airbill No: 4133 334 3785

Client ID: 4841 - Resolution Consultants

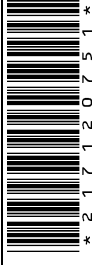
SDG: 217120751

PM: AEC

(1) Matrix Code: AA=Air, AQ=Air Quality Control Matrix, DC=Drill Cuttings, GS=Soil Gas, LD=Drilling Fluid, LF=Free Product, LH=Liquid Waste, Oil=Oil, SB=Bentonite, SC=Cement
 SN=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid Quality Control Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, TQ=Tissue Quality
 WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water Quality Control Matrix, WS=Surface Water, WW=Waste Water
 (2) Sample Type: AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample,
 (3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=sodium bisulfate, ST



SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 217120751		Transport Method	YES	NO
Client 4841 - Resolution Consultants			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Profile Number 274526	Received By Reese, Sean M		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line Item(s) 1 - FFAS	Receive Date(s) 12/07/17		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CHECKLIST				
Samples received with proper thermal preservation?			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radioactivity is <1600 cpm? If no, record cpm value in notes section.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC relinquished and complete (including sampleIDs, collect times, and sampler)?			<input checked="" type="checkbox"/>	<input type="checkbox"/>
All containers received in good condition and within hold time?			<input checked="" type="checkbox"/>	<input type="checkbox"/>
All sample labels and containers received match the chain of custody?			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Preservative added to any containers?			<input type="checkbox"/>	<input checked="" type="checkbox"/>
If received, was headspace for VOC water containers < 6mm?			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples collected in containers provided by GCAL?			<input checked="" type="checkbox"/>	<input type="checkbox"/>
DISCREPANCIES				
None				
LAB PRESERVATIONS				
None				
COOLERS				
Airbill	Thermometer ID: E29	Temp °C		
4133 2241 2785		0.1		
4133 2241 2774		0.3		
NOTES				

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	1-NEC-MW43-P	Monitoring well	1207627.575	248304.5345	N6247011D8013	JM51	RESOLUTION CONSULTANTS	I-NEC-MW43-P-17
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	1-NEC-MW41-P	Monitoring well	1207727.763	248303.4612	N6247011D8013	JM51	RESOLUTION CONSULTANTS	I-NEC-MW41-P-17
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	1-NEC-MW34-P	Monitoring well	1207619	248420.36	N6247011D8013	JM51	RESOLUTION CONSULTANTS	I-NEC-MW34-P-17
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	MW-T-40-P	Monitoring well	1207733.451	248159.923	N6247011D8013	JM51	RESOLUTION CONSULTANTS	DUP01
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	1-NE-MW44-P	Monitoring well	1207934.968	248690.1587	N6247011D8013	JM51	RESOLUTION CONSULTANTS	I-NE-MW44-P-17
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	1-NEC-MW42-P	Monitoring well	1207607.965	248351.1929	N6247011D8013	JM51	RESOLUTION CONSULTANTS	I-NEC-MW42-P-17
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	SWMU 00001	MW-T-40-P	Monitoring well	1207733.451	248159.923	N6247011D8013	JM51	RESOLUTION CONSULTANTS	MW-T40-P-17
SOUTHEAST	LOUISVILLE_NSWC	217120751							N6247011D8013	JM51	RESOLUTION CONSULTANTS	EB120417
SOUTHEAST	LOUISVILLE_NSWC	217120751							N6247011D8013	JM51	RESOLUTION CONSULTANTS	FB120517
SOUTHEAST	LOUISVILLE_NSWC	217120751							N6247011D8013	JM51	RESOLUTION CONSULTANTS	EB120517
SOUTHEAST	LOUISVILLE_NSWC	217120751							N6247011D8013	JM51	RESOLUTION CONSULTANTS	FB120417

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC	RES_META_ID
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Normal (Regular)	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Normal (Regular)	5-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Normal (Regular)	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Field duplicate	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Normal (Regular)	5-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Normal (Regular)	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751	SWMU 00001	Ground water	Normal (Regular)	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751		Water for QC samples	QC Sample	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751		Water for QC samples	QC Sample	5-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751		Water for QC samples	QC Sample	5-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00
SOUTHEAST	LOUISVILLE_NSWC	217120751		Water for QC samples	QC Sample	4-Dec-17	537_MOD	Perfluoroalkyl Compounds	20180405133013.00